



Full wwPDB EM Validation Report ⓘ

Mar 29, 2026 – 12:50 PM UTC

PDB ID : 6XYW / pdb_00006xyw
EMDB ID : EMD-10654
Title : Structure of the plant mitochondrial ribosome
Authors : Soufari, H.; Waltz, F.; Bochler, A.; Giege, P.; Hashem, Y.
Deposited on : 2020-01-31
Resolution : 3.86 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

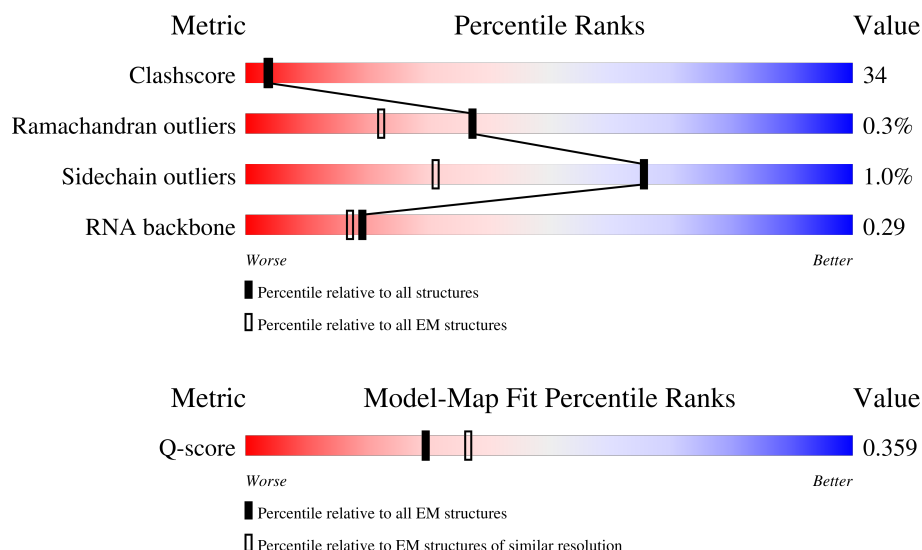
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.86 Å.

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



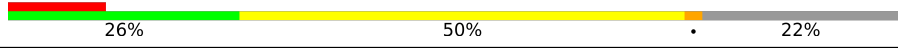
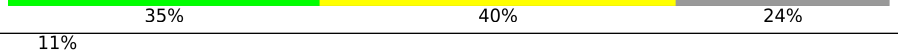
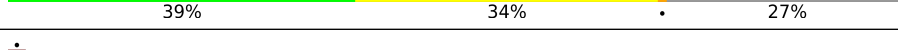
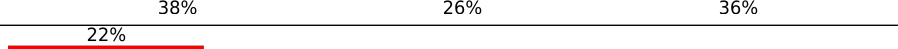
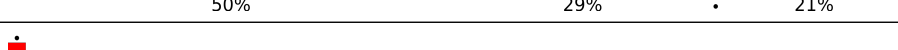
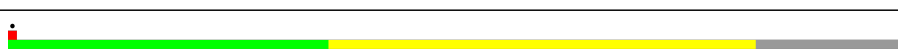
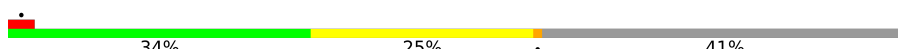
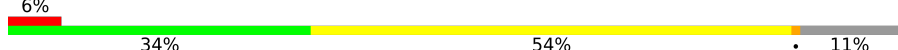
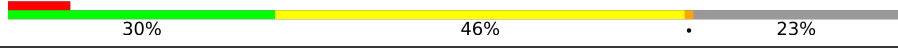
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
RNA backbone	8273	3508	-
Q-score	-	25397	8889 (3.36 - 4.35)

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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	Aa	349	 15% 11% 72%
2	Ab	214	 38% 35% 28%
3	Ac	324	 32% 35% 33%

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Mol	Chain	Length	Quality of chain
4	AD	173	
5	Ad	300	
6	Ae	185	
7	Af	102	
8	Ag	221	
9	Ai	155	
10	Aj	205	
11	Ak	173	
12	Al	281	
13	Am	179	
14	An	160	
15	Ao	114	
16	Ap	222	
17	Aq	126	
18	Ar	270	
19	As	269	
20	At	178	
21	Au	159	
22	Av	249	
23	Aw	154	
24	Ax	212	
25	Ay	144	
26	AA	76	
27	AB	134	
28	AC	58	

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Mol	Chain	Length	Quality of chain
29	AE	103	
30	AF	250	
31	AG	94	
32	AH	146	
33	AI	233	
34	AJ	127	
35	AK	130	
36	AL	81	
37	AM	151	
38	AN	188	
39	AO	491	
40	AP	669	
41	AQ	521	
42	AR	29	
43	1	2842	
44	3	118	
45	Bb	556	
46	Bf	148	
47	Bh	430	
48	Bi	241	
49	Bl	154	
50	Bm	164	
51	Br	212	
52	Bw	480	
53	Bx	102	

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Mol	Chain	Length	Quality of chain
54	Bz	419	
55	BA	91	
56	Bt	98	
57	BG	576	
58	BP	91	
59	BF	123	
60	Ba	219	
61	Bc	362	
62	Bd	515	
63	Be	139	
64	Bg	129	
65	Bj	314	
66	Bn	419	
67	Bo	135	
68	Bp	116	
69	Bq	261	
70	Bs	101	
71	Bu	195	
72	Bv	195	
73	By	142	
74	BB	137	
75	BC	112	
76	BD	420	
77	BE	409	
78	BI	266	

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Mol	Chain	Length	Quality of chain
79	BJ	349	
80	BH	390	
81	BN	69	
82	BM	79	
83	BO	30	
84	BL	64	
85	2	1743	
86	Az	109	
87	Ah	171	
88	BK	316	
89	Bk	125	

2 Entry composition

There are 89 unique types of molecules in this entry. The entry contains 189336 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 60S ribosomal protein L2, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	Aa	96	Total	C	N	O	S	0	0
			753	465	152	133	3		

- Molecule 2 is a protein called Expressed protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	Ab	155	Total	C	N	O	S	0	0
			1144	709	224	200	11		

- Molecule 3 is a protein called 50S ribosomal protein L3-2, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	Ac	218	Total	C	N	O	S	0	0
			1674	1058	318	288	10		

- Molecule 4 is a protein called Ribosomal protein L35.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	AD	60	Total	C	N	O	S	0	0
			506	327	102	76	1		

- Molecule 5 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	Ad	209	Total	C	N	O	S	0	0
			1649	1043	311	288	7		

- Molecule 6 is a protein called 60S ribosomal protein L5, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	Ae	144	Total	C	N	O	S	0	0
			1171	760	191	212	8		

- Molecule 7 is a protein called Putative ribosomal protein L6.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	Af	100	Total	C	N	O	S	0	0
			797	517	141	134	5		

- Molecule 8 is a protein called Ribosomal protein L9/RNase H1.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	Ag	51	Total	C	N	O	S	0	0
			406	265	70	70	1		

- Molecule 9 is a protein called At4g35490.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	Ai	138	Total	C	N	O	S	0	0
			1056	677	182	190	7		

- Molecule 10 is a protein called At1g01640.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	Aj	155	Total	C	N	O	S	0	0
			1267	800	244	217	6		

- Molecule 11 is a protein called 50S ribosomal protein HLP, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	Ak	127	Total	C	N	O	S	0	0
			962	605	183	169	5		

- Molecule 12 is a protein called Ribosomal protein L18e/L15 superfamily protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	Al	180	Total	C	N	O	S	0	0
			1407	897	274	234	2		

- Molecule 13 is a protein called 60S ribosomal protein L16, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	Am	142	Total	C	N	O	S	0	0
			1111	702	219	182	8		

- Molecule 14 is a protein called At5g09770.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	An	141	Total	C	N	O	S	0	0
			1139	708	228	198	5		

- Molecule 15 is a protein called At5g27820.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	Ao	106	Total	C	N	O	S	0	0
			835	532	152	146	5		

- Molecule 16 is a protein called At1g24240/F3I6_17.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	Ap	114	Total	C	N	O	S	0	0
			935	600	178	155	2		

- Molecule 17 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	Aq	106	Total	C	N	O	S	0	0
			888	557	178	148	5		

- Molecule 18 is a protein called 50S ribosomal protein L21, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	Ar	137	Total	C	N	O	S	0	0
			1106	707	196	201	2		

- Molecule 19 is a protein called AT1G52370 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	As	121	Total	C	N	O	S	0	0
			937	587	184	163	3		

- Molecule 20 is a protein called At4g39880.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	At	105	Total	C	N	O	S	0	0
			840	545	148	145	2		

- Molecule 21 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	Au	142	Total	C	N	O	S	0	0
			1112	702	210	196	4		

- Molecule 22 is a protein called Ribosomal protein L25/Gln-tRNA synthetase, anti-codon-binding domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	Av	198	Total	C	N	O	S	0	0
			1523	968	270	281	4		

- Molecule 23 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	Aw	76	Total	C	N	O	S	0	0
			606	387	117	102			

- Molecule 24 is a protein called AT4g31460/F3L17_30.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	Ax	99	Total	C	N	O	S	0	0
			809	511	151	143	4		

- Molecule 25 is a protein called At1g07830/F24B9_7.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	Ay	111	Total	C	N	O	S	0	0
			943	592	175	168	8		

- Molecule 26 is a protein called Ribosomal protein L31.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	AA	37	Total	C	N	O	S	0	0
			299	187	57	54	1		

- Molecule 27 is a protein called At1g26740/T24P13_11.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	AB	41	Total	C	N	O	S	0	0
			319	203	67	45	4		

- Molecule 28 is a protein called At3g06320.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	AC	51	Total	C	N	O	S	0	0
			432	283	77	70	2		

- Molecule 29 is a protein called Ribosomal protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	AE	36	Total	C	N	O	S	0	0
			297	183	63	47	4		

- Molecule 30 is a protein called At4g05400.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	AF	84	Total	C	N	O	S	0	0
			663	419	115	127	2		

- Molecule 31 is a protein called At5g40080.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	AG	61	Total	C	N	O	S	0	0
			485	316	84	83	2		

- Molecule 32 is a protein called Mitochondrial ribosomal protein L51/S25/CI-B8 family protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	AH	110	Total	C	N	O	S	0	0
			879	553	168	154	4		

- Molecule 33 is a protein called At1g14620/T5E21_15.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	AI	207	Total	C	N	O	S	0	0
			1714	1118	282	306	8		

- Molecule 34 is a protein called 39S ribosomal protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	AJ	81	Total	C	N	O	S	0	0
			632	392	115	121	4		

- Molecule 35 is a protein called At4g22000.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	AK	87	Total	C	N	O	S	0	0
			732	456	143	125	8		

- Molecule 36 is a protein called Uncharacterized protein At1g27435/F17L21.30.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	AL	52	Total	C	N	O	S	0	0
			400	246	82	71	1		

- Molecule 37 is a protein called At1g73940/F2P9_19.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	AM	82	Total	C	N	O	S	0	0
			651	425	114	108	4		

- Molecule 38 is a protein called At3g51010.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	AN	80	Total	C	N	O	S	0	0
			664	406	141	115	2		

- Molecule 39 is a protein called Pentatricopeptide repeat-containing protein At1g60770.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	AO	452	Total	C	N	O	S	0	0
			3595	2276	615	682	22		

- Molecule 40 is a protein called rPPR*.

Mol	Chain	Residues	Atoms				AltConf	Trace
40	AP	669	Total	C	N	O	0	0
			3345	2007	669	669		

- Molecule 41 is a protein called Pentatricopeptide repeat-containing protein PNM1, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	AQ	366	Total	C	N	O	S	0	0
			2900	1835	501	537	27		

- Molecule 42 is a protein called UNK-6.

Mol	Chain	Residues	Atoms				AltConf	Trace
42	AR	29	Total	C	N	O	0	0
			145	87	29	29		

- Molecule 43 is a RNA chain called RNA (2842-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
43	1	2842	Total	C	N	O	P	6	0
			60842	27171	11068	19760	2843		

- Molecule 44 is a RNA chain called RNA (118-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
44	3	118	Total	C	N	O	P	0	0
			2513	1124	453	819	117		

- Molecule 45 is a protein called Ribosomal protein S3, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	Bb	281	Total	C	N	O	S	0	0
			2293	1489	413	383	8		

- Molecule 46 is a protein called Ribosomal protein S7, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	Bf	136	Total	C	N	O	S	0	0
			1106	699	216	187	4		

- Molecule 47 is a protein called 30S ribosomal protein S9, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	Bh	123	Total	C	N	O	S	0	0
			975	616	187	168	4		

- Molecule 48 is a protein called 40S ribosomal protein S10, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
48	Bi	101	Total	C	N	O	S	0	0
			857	556	161	135	5		

- Molecule 49 is a protein called Small ribosomal subunit protein S13, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	Bl	91	Total	C	N	O	S	0	0
			729	442	153	132	2		

- Molecule 50 is a protein called At2g34520.

Mol	Chain	Residues	Atoms					AltConf	Trace
50	Bm	96	Total	C	N	O	S	0	0
			794	495	165	130	4		

- Molecule 51 is a protein called 40S ribosomal protein S19, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
51	Br	83	Total	C	N	O	S	0	0
			685	439	130	112	4		

- Molecule 52 is a protein called Mitochondrial 28S ribosomal protein S29-like protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
52	Bw	337	Total	C	N	O	S	0	0
			2722	1752	469	488	13		

- Molecule 53 is a protein called 37S ribosomal protein S27.

Mol	Chain	Residues	Atoms					AltConf	Trace
53	Bx	79	Total	C	N	O	S	0	0
			641	402	125	112	2		

- Molecule 54 is a protein called AT3G18240 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
54	Bz	123	Total	C	N	O	S	0	0
			1010	634	198	175	3		

- Molecule 55 is a protein called CX9C domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
55	BA	38	Total	C	N	O	S	0	0
			293	181	50	54	8		

- Molecule 56 is a protein called 30S ribosomal protein S31, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
56	Bt	29	Total	C	N	O	S	0	0
			239	149	50	39	1		

- Molecule 57 is a protein called Pentatricopeptide repeat-containing protein At3g02650, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
57	BG	364	Total	C	N	O		0	0
			1795	1067	364	364			

- Molecule 58 is a protein called UNK-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
58	BP	91	Total	C	N	O		0	0
			455	273	91	91			

- Molecule 59 is a protein called mS31/mS46.

Mol	Chain	Residues	Atoms					AltConf	Trace
59	BF	123	Total	C	N	O		0	0
			615	369	123	123			

- Molecule 60 is a protein called Ribosomal protein S2, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
60	Ba	195	Total	C	N	O	S	0	0
			1563	1003	276	273	11		

- Molecule 61 is a protein called Ribosomal protein S4, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
61	Bc	327	Total	C	N	O	S	0	0
			2772	1781	526	454	11		

- Molecule 62 is a protein called At1g64880.

Mol	Chain	Residues	Atoms					AltConf	Trace
62	Bd	216	Total	C	N	O	S	0	0
			1730	1097	310	317	6		

- Molecule 63 is a protein called Translation elongation factor EF1B/ribosomal protein S6 family protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
63	Be	99	Total	C	N	O	S	0	0
			819	529	147	137	6		

- Molecule 64 is a protein called 40S ribosomal protein S15a-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
64	Bg	128	Total	C	N	O	S	0	0
			1042	657	194	188	3		

- Molecule 65 is a protein called Probable ribosomal protein S11, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
65	Bj	123	Total	C	N	O	S	0	0
			955	590	188	172	5		

- Molecule 66 is a protein called At1g15810/F7H2_23.

Mol	Chain	Residues	Atoms					AltConf	Trace
66	Bn	100	Total	C	N	O	S	0	0
			814	509	150	149	6		

- Molecule 67 is a protein called 30S ribosomal protein S16-2, chloroplastic/mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
67	Bo	99	Total	C	N	O	S	0	0
			780	496	152	127	5		

- Molecule 68 is a protein called Nucleic acid-binding, OB-fold-like protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
68	Bp	78	Total	C	N	O	S	0	0
			636	405	120	108	3		

- Molecule 69 is a protein called F10K1.8 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
69	Bq	62	Total	C	N	O	S	0	0
			492	313	91	87	1		

- Molecule 70 is a protein called Ribosomal protein S21 family protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
70	Bs	66	Total	C	N	O	S	0	0
			539	337	106	94	2		

- Molecule 71 is a protein called Uncharacterized protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
71	Bu	100	Total	C	N	O	S	0	0
			800	508	147	140	5		

- Molecule 72 is a protein called AT5g49210/K21P3_8.

Mol	Chain	Residues	Atoms					AltConf	Trace
72	Bv	149	Total	C	N	O	S	0	0
			1278	800	237	237	4		

- Molecule 73 is a protein called 28S ribosomal S34 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
73	By	76	Total	C	N	O	S	0	0
			619	404	115	98	2		

- Molecule 74 is a protein called mS38.

Mol	Chain	Residues	Atoms					AltConf	Trace
74	BB	23	Total	C	N	O	S	0	0
			203	129	46	27	1		

- Molecule 75 is a protein called At5g26800.

Mol	Chain	Residues	Atoms					AltConf	Trace
75	BC	68	Total	C	N	O	S	0	0
			544	356	99	88	1		

- Molecule 76 is a protein called Gb|AAC32909.1.

Mol	Chain	Residues	Atoms					AltConf	Trace
76	BD	210	Total	C	N	O	S	0	0
			1768	1113	317	328	10		

- Molecule 77 is a protein called 3-hydroxyisobutyryl-CoA hydrolase-like protein 2, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
77	BE	348	Total	C	N	O	S	0	0
			2697	1716	446	517	18		

- Molecule 78 is a protein called rPPR*.

Mol	Chain	Residues	Atoms					AltConf	Trace
78	BI	266	Total	C	N	O		0	0
			1330	798	266	266			

- Molecule 79 is a protein called rPPR*.

Mol	Chain	Residues	Atoms					AltConf	Trace
79	BJ	349	Total	C	N	O		0	0
			1745	1047	349	349			

- Molecule 80 is a protein called Adenylyl cyclase.

Mol	Chain	Residues	Atoms					AltConf	Trace
80	BH	206	Total	C	N	O		0	0
			1023	611	206	206			

- Molecule 81 is a protein called UNK-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
81	BN	69	Total	C	N	O		0	0
			345	207	69	69			

- Molecule 82 is a protein called UNK-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
82	BM	79	Total	C	N	O		0	0
			395	237	79	79			

- Molecule 83 is a protein called UNK-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
83	BO	30	Total	C	N	O		0	0
			150	90	30	30			

- Molecule 84 is a protein called UNK-1.

Mol	Chain	Residues	Atoms				AltConf	Trace
84	BL	64	Total	C	N	O	0	0
			320	192	64	64		

- Molecule 85 is a RNA chain called RNA (1743-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
85	2	1743	Total	C	N	O	P	0	0
			37379	16678	6858	12100	1743		

- Molecule 86 is a protein called At5g55140.

Mol	Chain	Residues	Atoms					AltConf	Trace
86	Az	82	Total	C	N	O	S	0	0
			660	406	135	114	5		

- Molecule 87 is a protein called 50S ribosomal protein L10.

Mol	Chain	Residues	Atoms					AltConf	Trace
87	Ah	137	Total	C	N	O	S	0	0
			1098	706	187	200	5		

- Molecule 88 is a protein called rPPR*.

Mol	Chain	Residues	Atoms				AltConf	Trace
88	BK	316	Total	C	N	O	0	0
			1580	948	316	316		

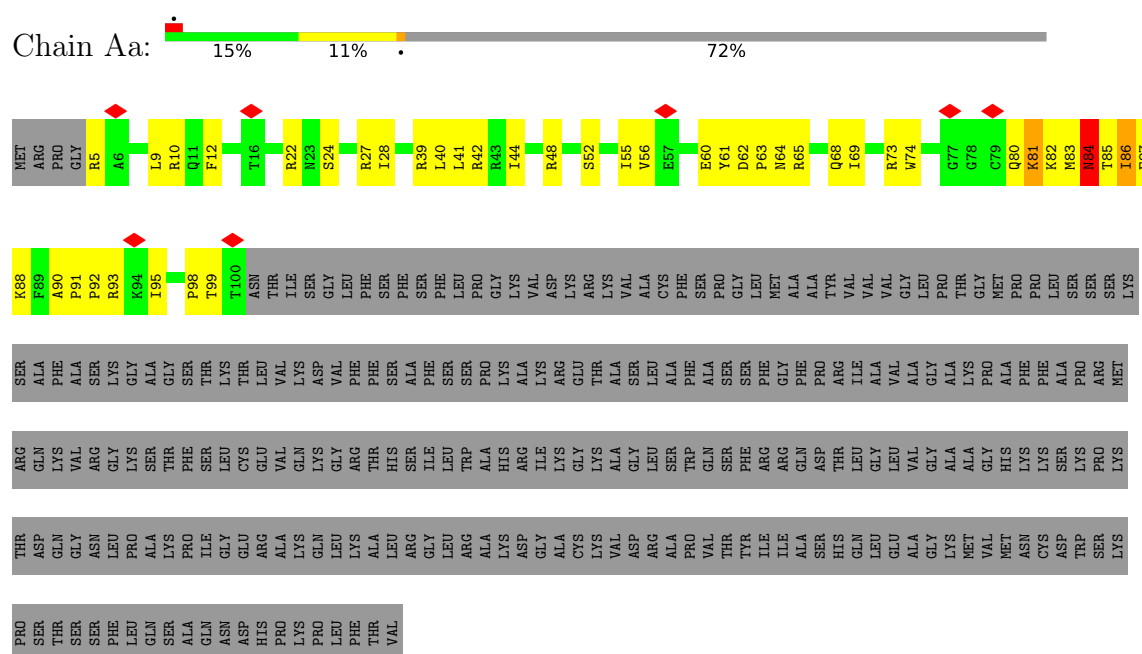
- Molecule 89 is a protein called Ribosomal protein S12, mitochondrial.

Mol	Chain	Residues	Atoms					AltConf	Trace
89	Bk	121	Total	C	N	O	S	0	0
			968	598	204	162	4		

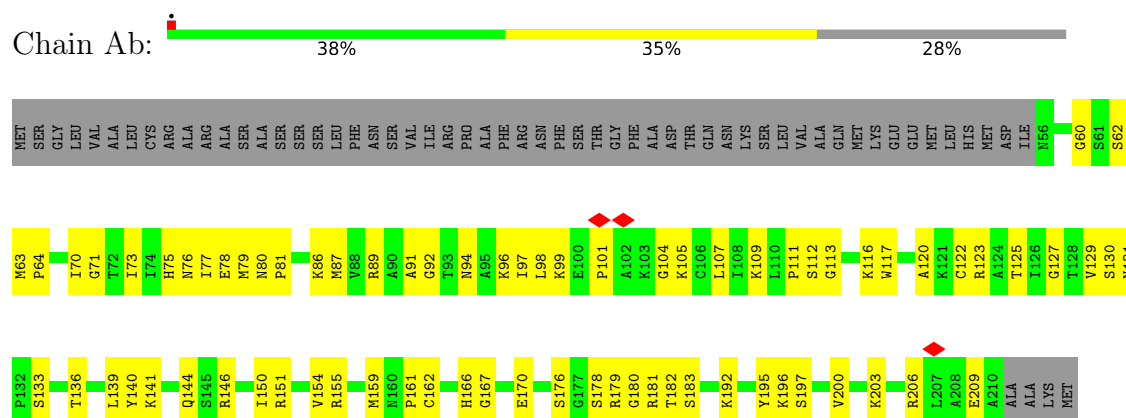
3 Residue-property plots

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

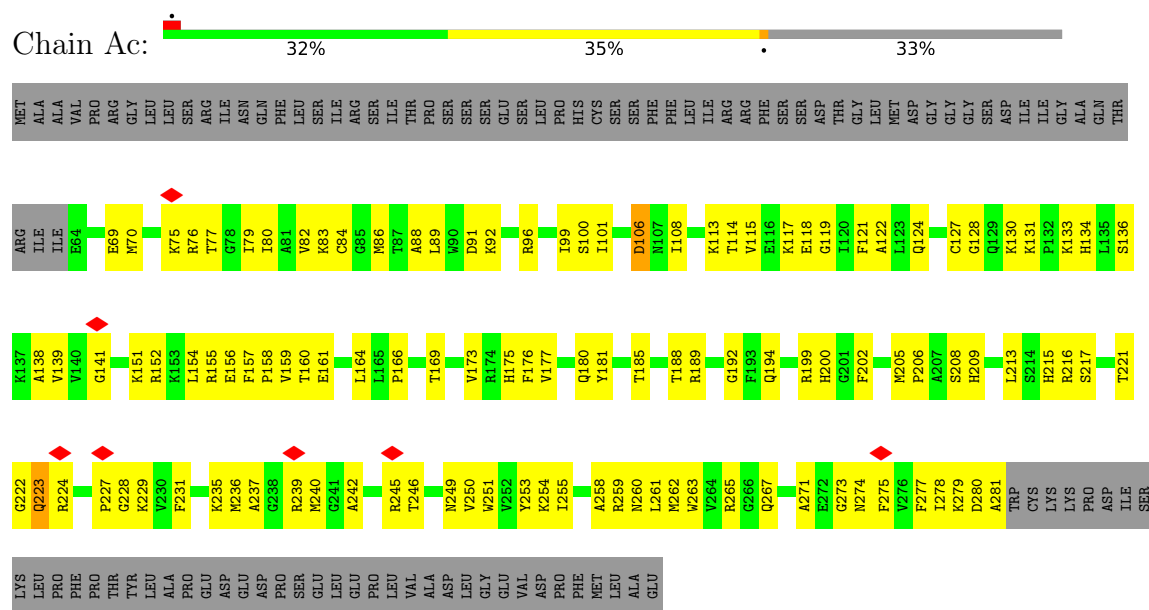
- Molecule 1: 60S ribosomal protein L2, mitochondrial



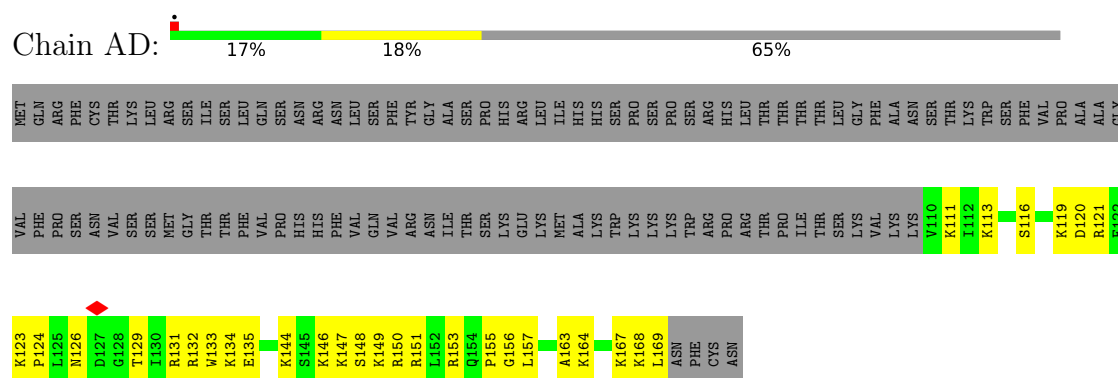
- Molecule 2: Expressed protein



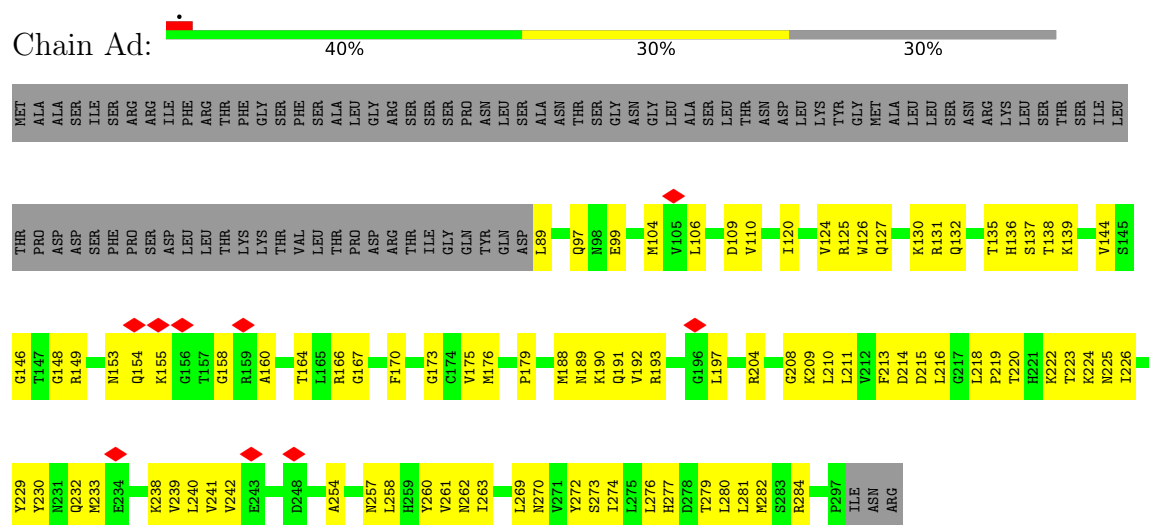
- Molecule 3: 50S ribosomal protein L3-2, mitochondrial



- Molecule 4: Ribosomal protein L35



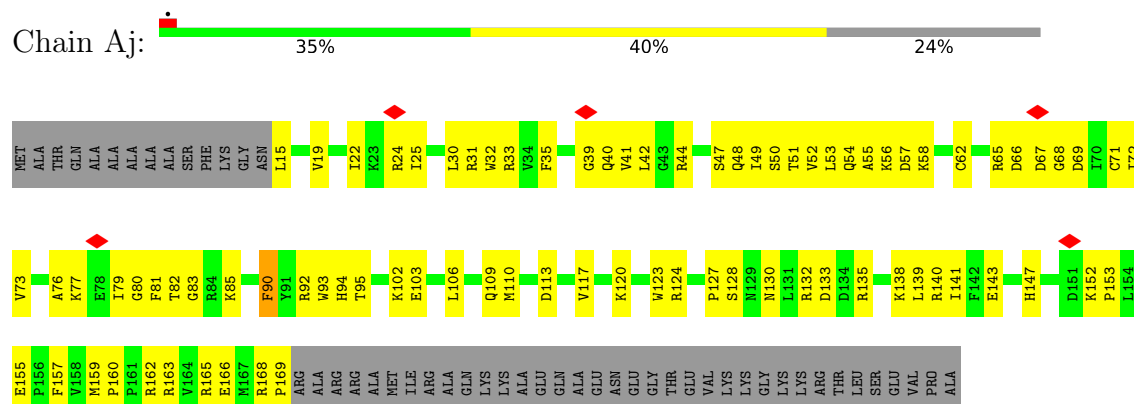
- Molecule 5: 50S ribosomal protein L4



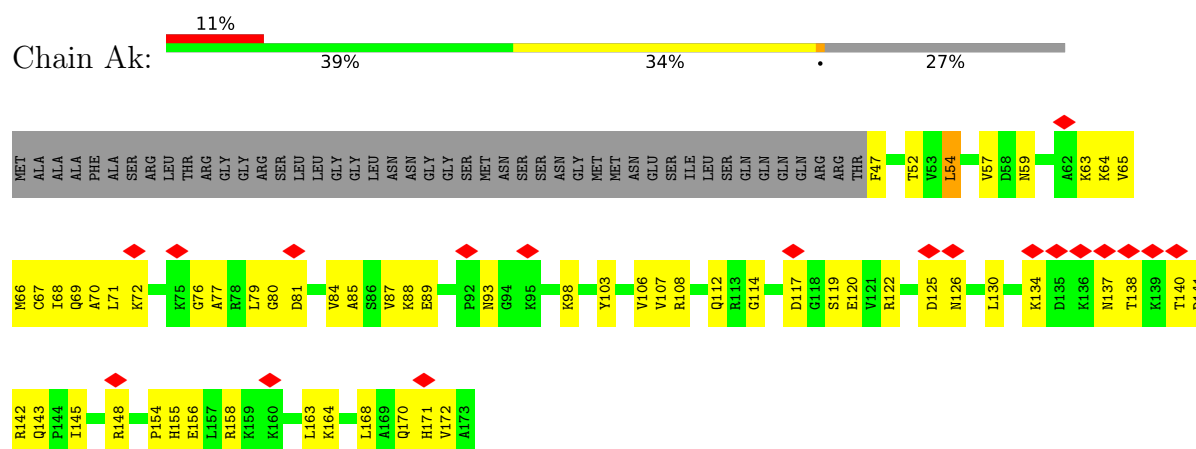
- Molecule 6: 60S ribosomal protein L5, mitochondrial



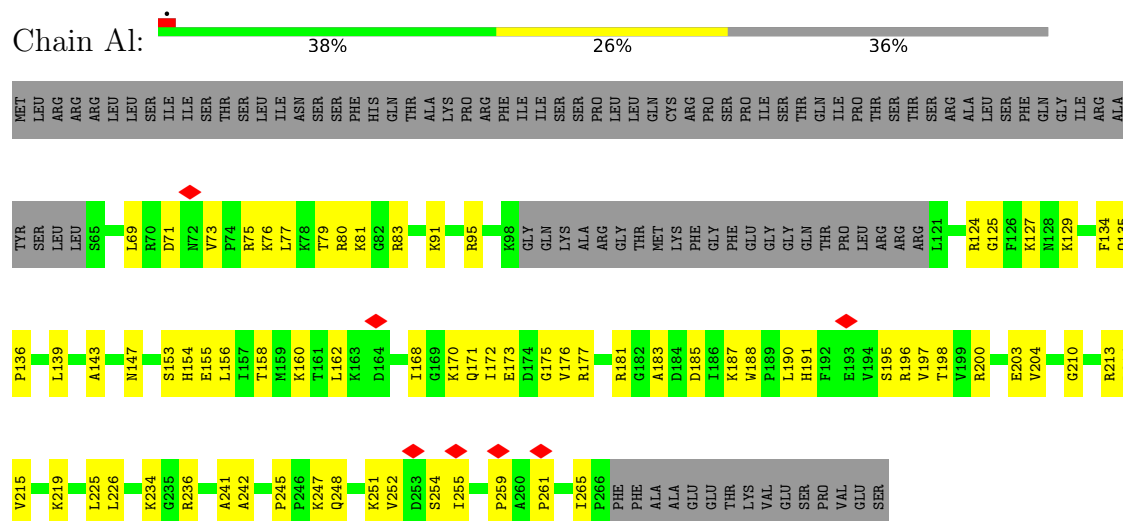
• Molecule 10: At1g01640



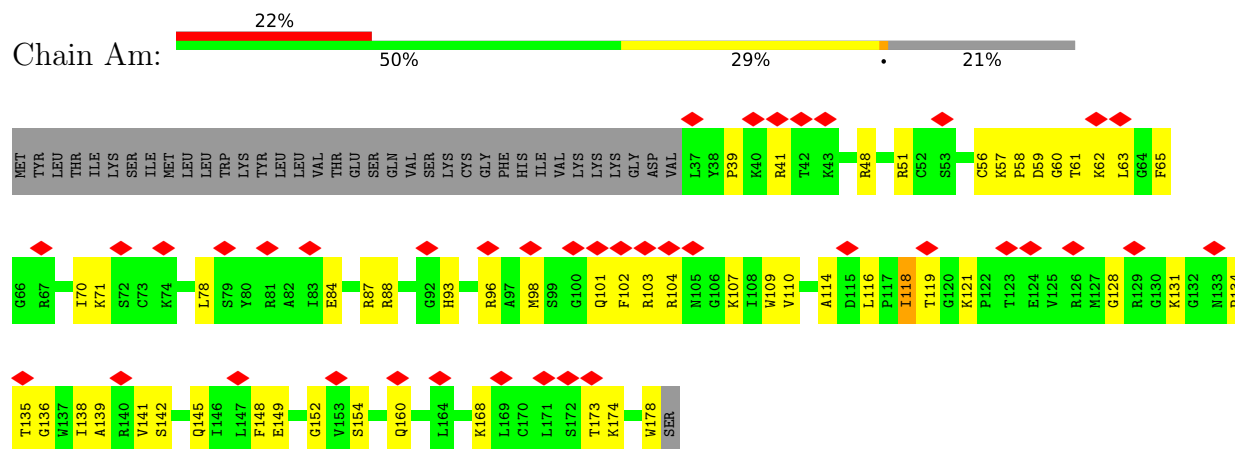
• Molecule 11: 50S ribosomal protein HLP, mitochondrial



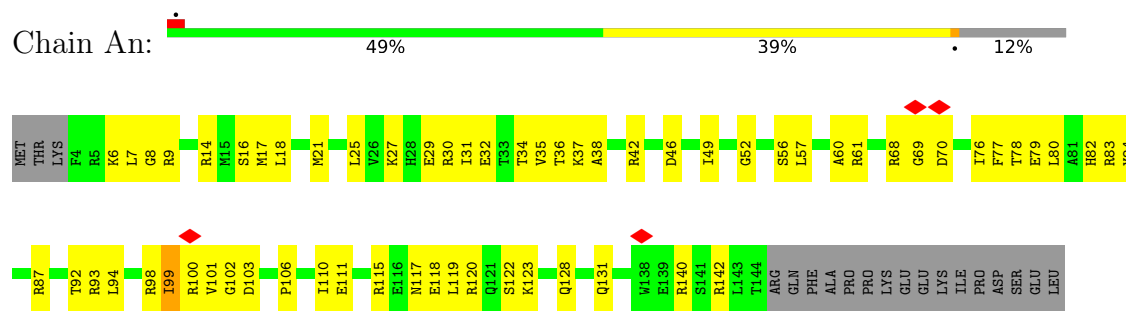
• Molecule 12: Ribosomal protein L18e/L15 superfamily protein



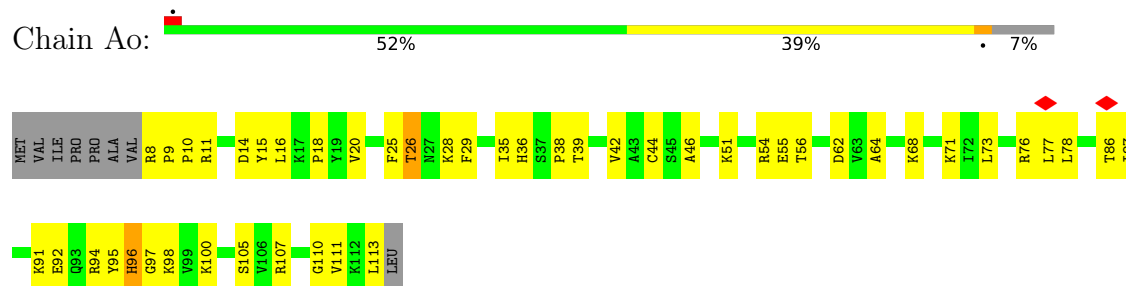
- Chain Am:



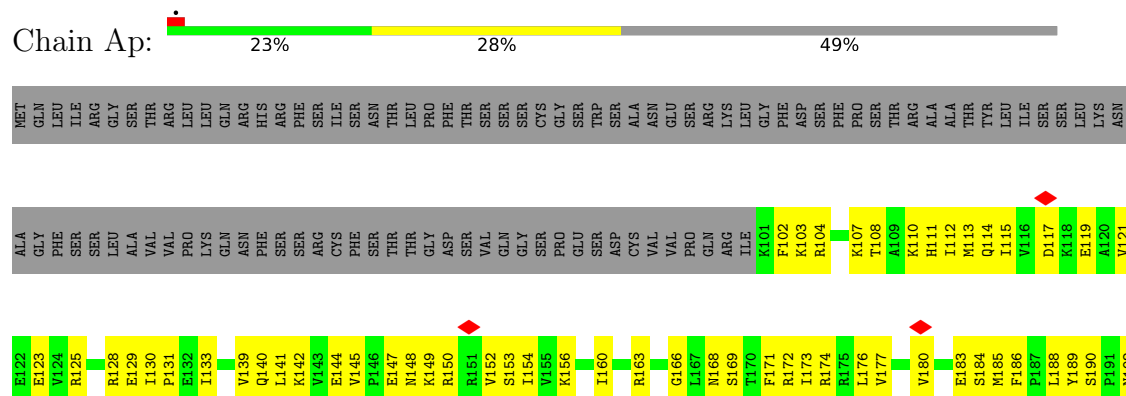
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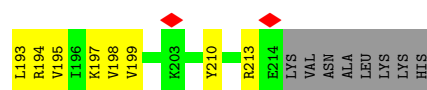


- Chain Ao:



- Chain Ap:

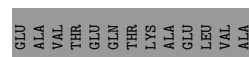
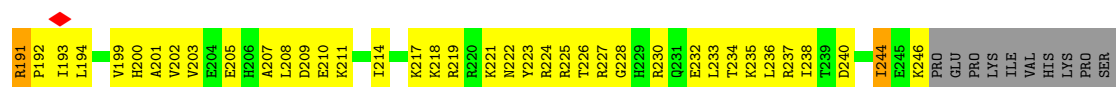
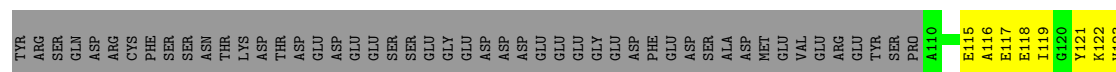
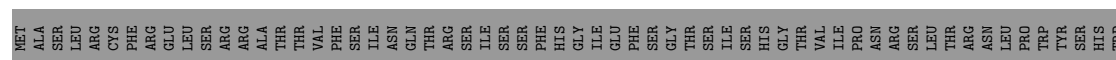




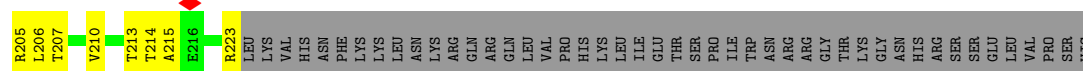
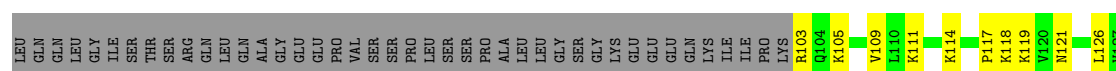
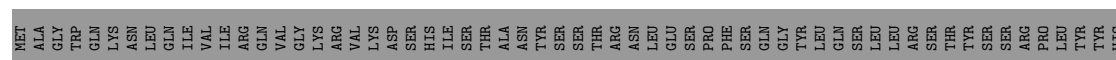
• Molecule 17: 50S ribosomal protein L20



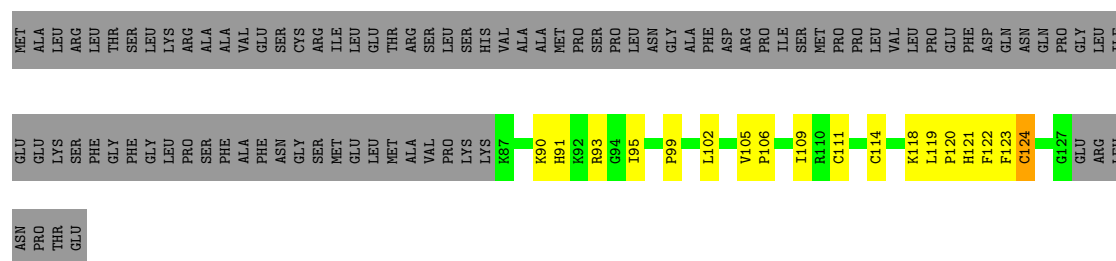
• Molecule 18: 50S ribosomal protein L21, mitochondrial



• Molecule 19: AT1G52370 protein

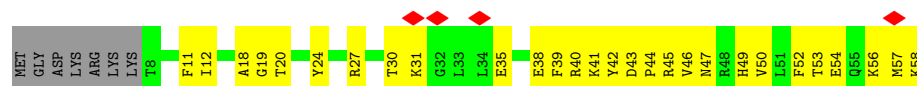


Chain AB: 



• Molecule 28: At3g06320

Chain AC: 



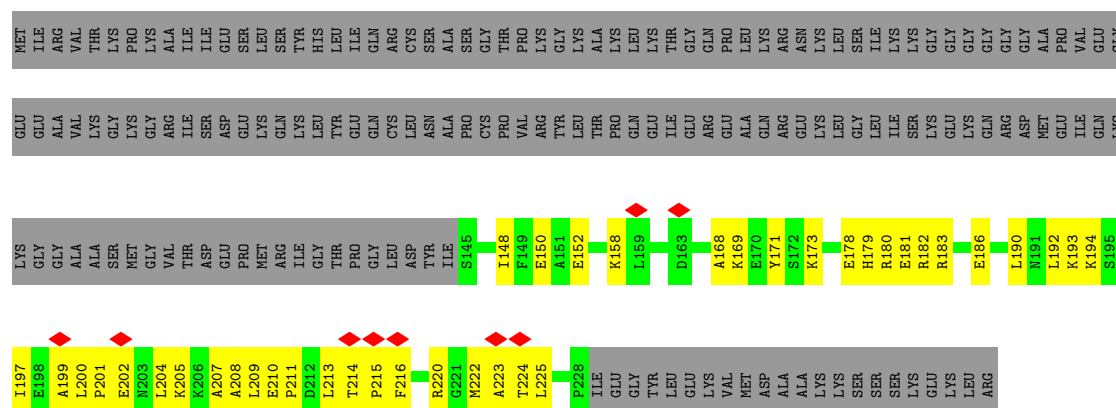
• Molecule 29: Ribosomal protein

Chain AE: 

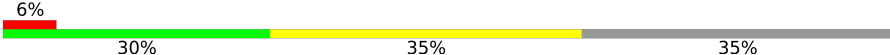


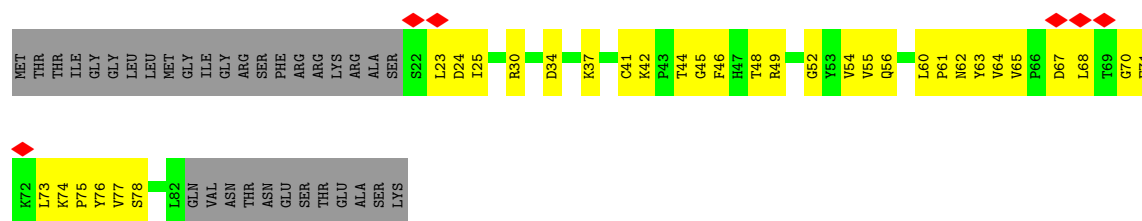
• Molecule 30: At4g05400

Chain AF: 

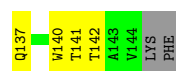


• Molecule 31: At5g40080

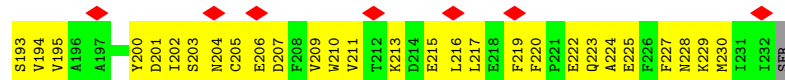
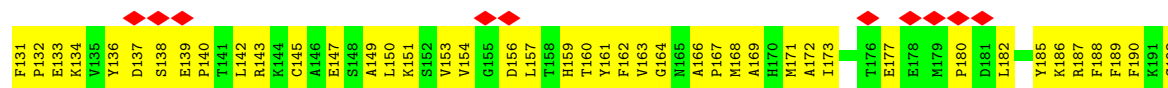
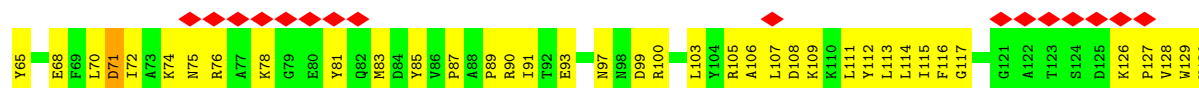
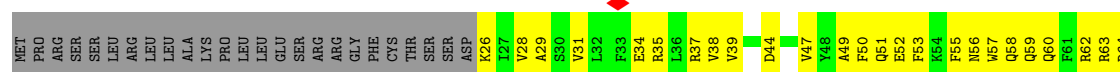
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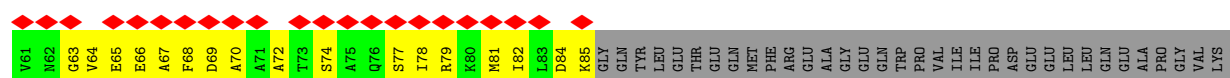
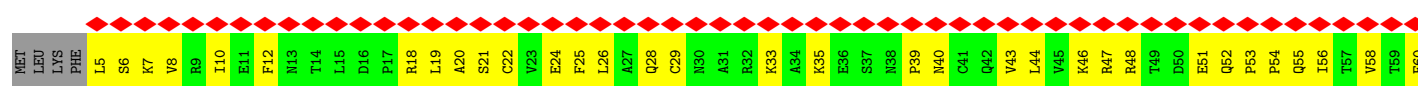
- Molecule 32: Mitochondrial ribosomal protein L51/S25/CI-B8 family protein



- Molecule 33: At1g14620/T5E21_15



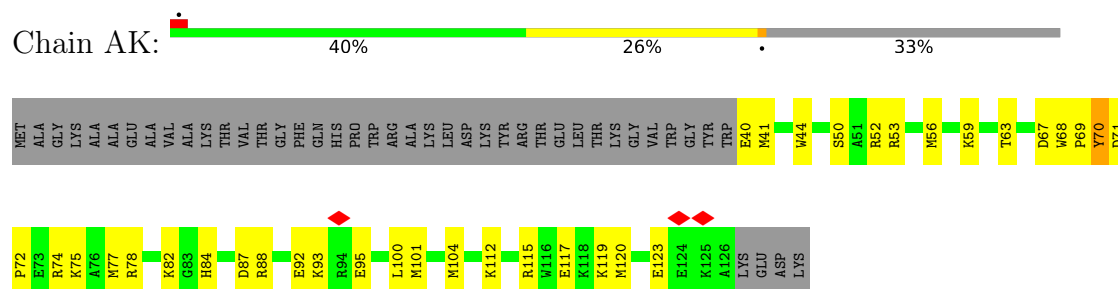
- Molecule 34: 39S ribosomal protein



ARG
LYS
ALA
GLU
ASP
LYS
LYS

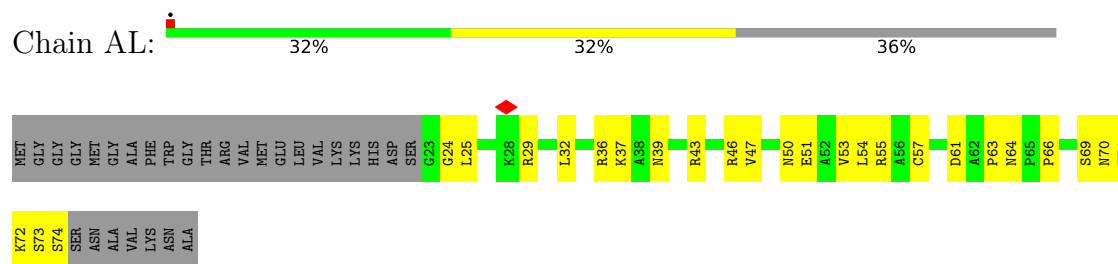
• Molecule 35: At4g22000

Chain AK:



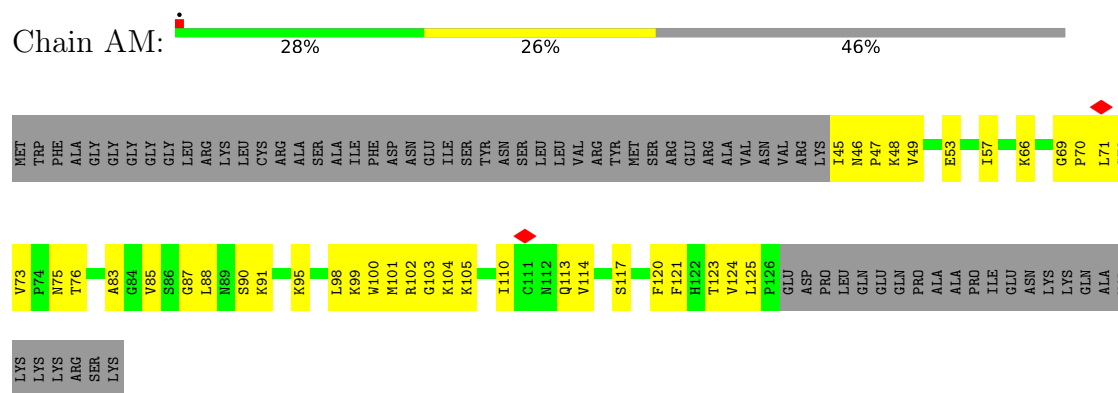
• Molecule 36: Uncharacterized protein At1g27435/F17L21.30

Chain AL:



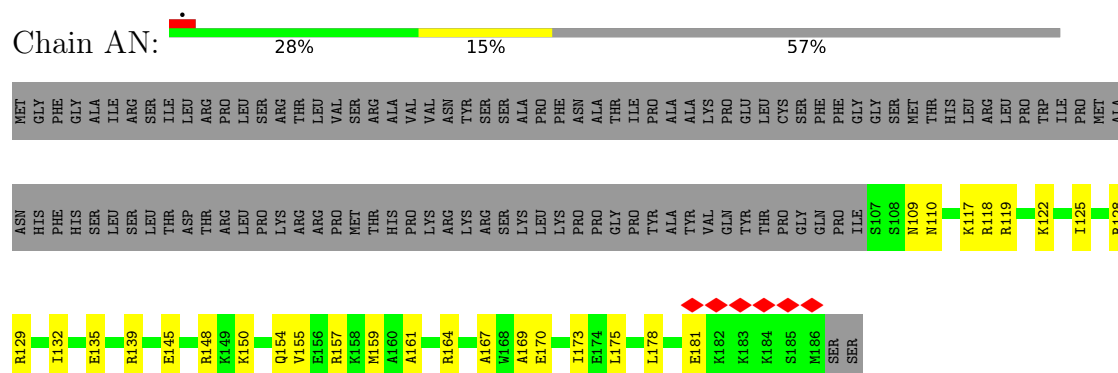
• Molecule 37: At1g73940/F2P9_19

Chain AM:

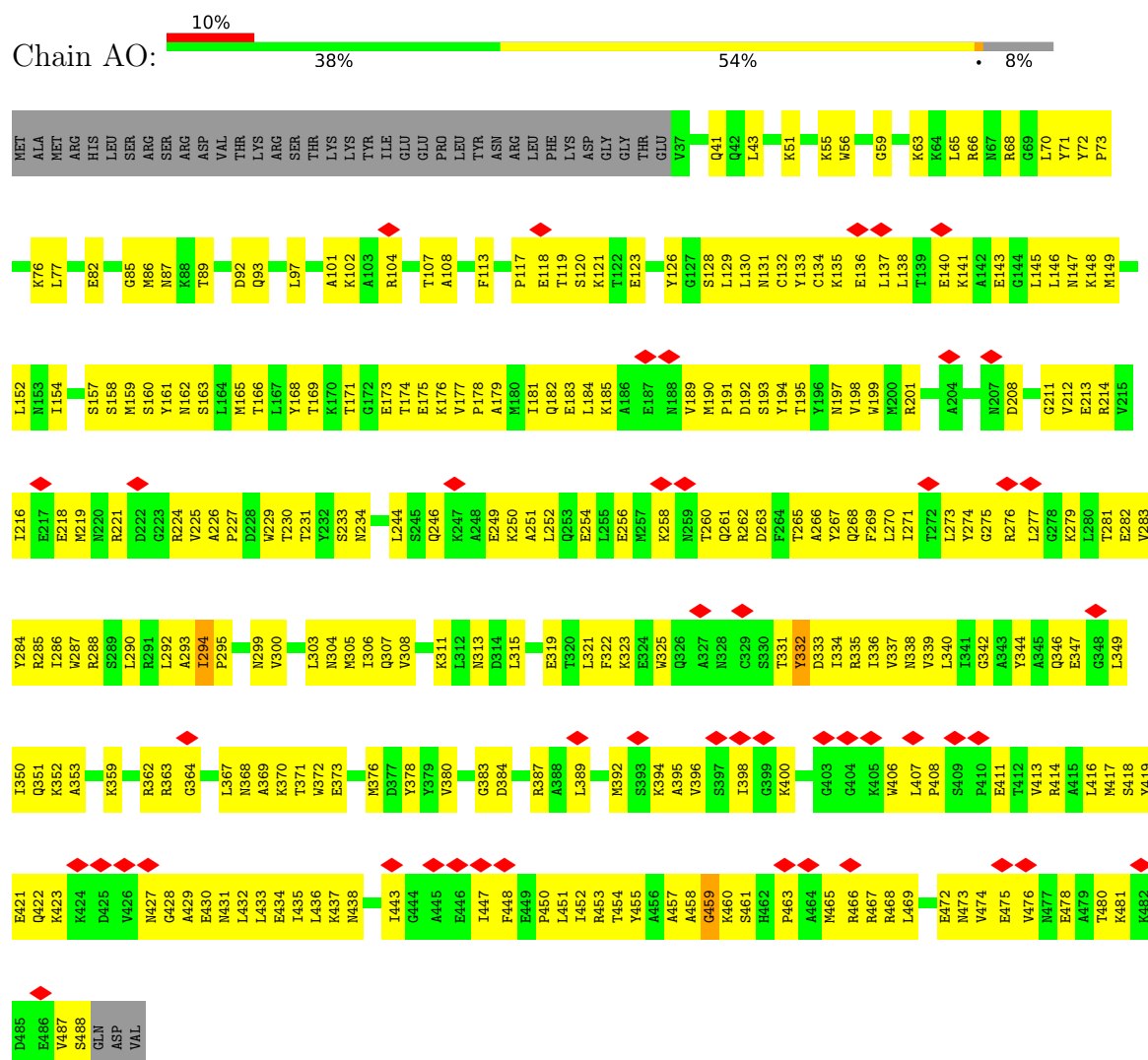


• Molecule 38: At3g51010

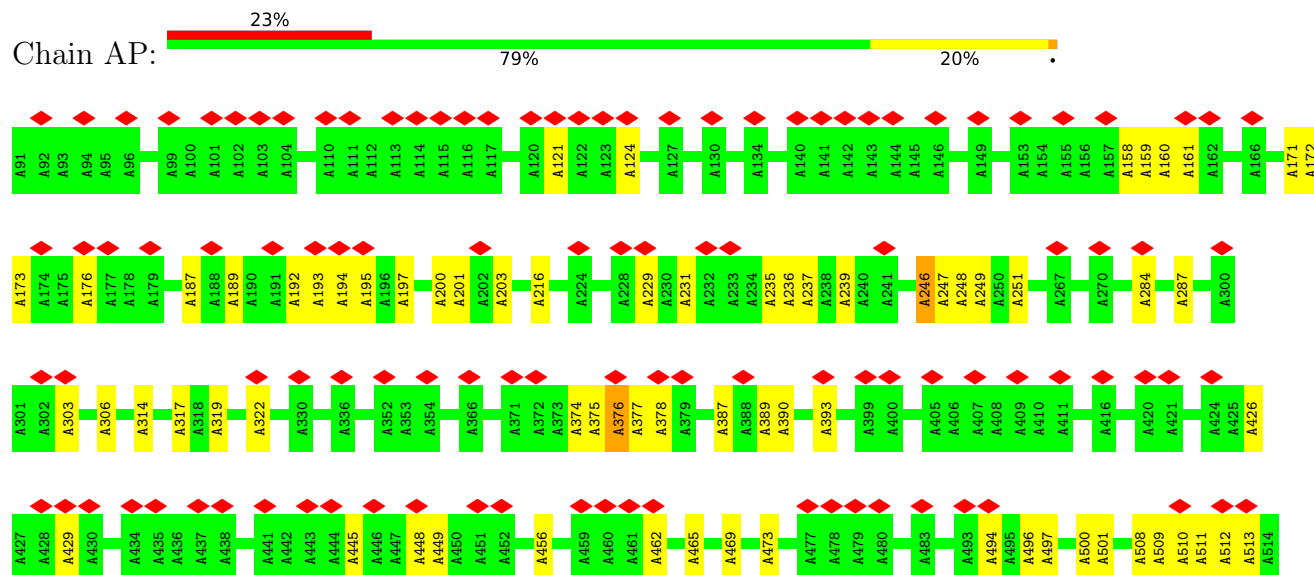
Chain AN:



• Molecule 39: Pentatricopeptide repeat-containing protein At1g60770



• Molecule 40: rPPR*

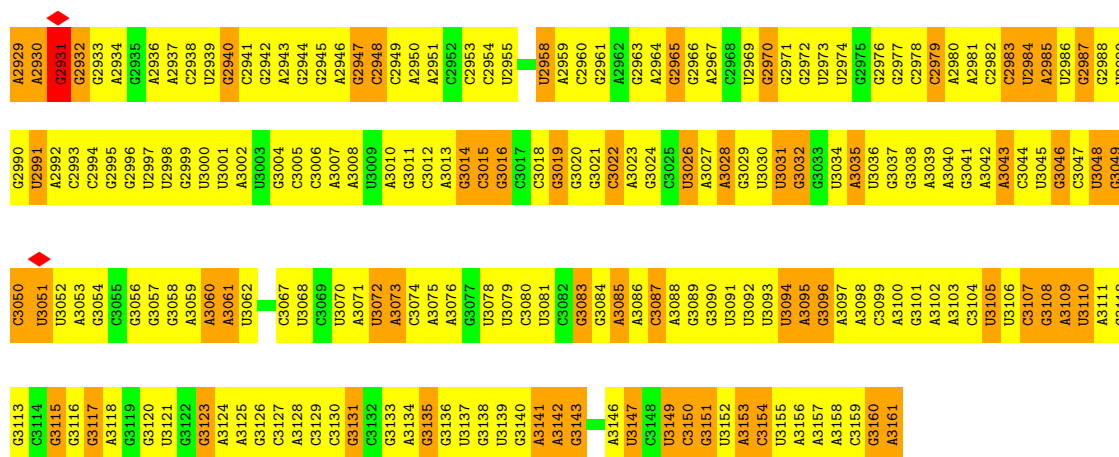


Chain 1: 

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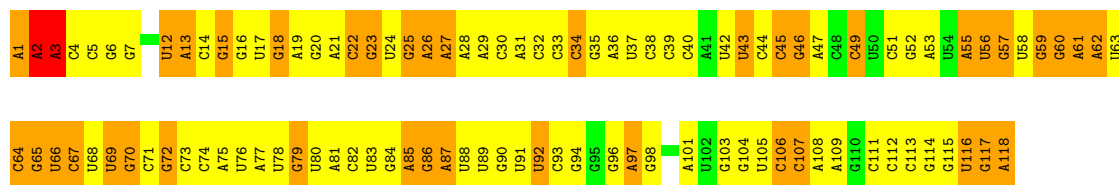
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A1972	A1910	A1850	G1513	C1454	G1391	U1329	G1269	U1209	U1148	A1014	A1014
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C1914	U1580	A1581	C1520	C1458	A1395	U1333	A1275	C1213	A1092	G1018	G1019
G1915	U1640	U1582	G1521	U1459	U1396	C1334	A1276	U1214	C1155	G1020	U1021
A1916	C1641	G1583	A1522	G1460	U1397	A1336	A1277	U1215	C1156	A1084	U1022
U1917	A1642	C1584	A1523	U1461	C1398	G1337	A1278	G1216	U1157	C1095	A1023
C1918	U1643	U1585	G1524	G1462	U1399	U1338	U1279	G1217	A1158	U1096	G1024
G1919	U1645	C1586	G1525	G1463	G1401	G1339	U1280	A1218	A1159	U1087	G1025
U1920	C1646	U1587	G1526	A1464	U1340	U1342	U1281	A1219	G1160	U1098	G1026
C1921	U1647	C1588	G1527	A1465	A1403	C1341	A1282	G1220	C1161	U1099	U1027
G1922	C1648	U1589	C1528	G1466	G1404	A1342	U1283	C1221	A1162	G1100	G1028
C1923	C1649	C1590	G1529	A1467	U1405	G1343	A1284	A1222	U1163	G1101	G1029
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C1926	C1652	G1593	C1532	U1470	G1408	U1347	G1287	G1225	C1167	G1104	U1042
G1927	U1653	G1594	G1533	C1472	A1410	G1348	C1288	A1226	U1168	G1105	A1043
U1928	U1654	A1595	G1534	U1473	U1411	A1350	U1290	U1227	U1169	C1106	A1044
A1929	C1655	G1596	U1534	U1474	G1412	A1351	C1291	C1228	A1170	U1107	C1045
C1930	A1657	C1597	G1537	C1475	C1413	G1352	A1292	G1229	G1171	A1108	A1046
U1931	U1658	U1598	U1539	U1476	U1414	C1353	A1293	U1230	U1172	A1109	A1047
G1932	U1659	A1599	G1540	C1477	G1415	U1354	U1294	U1231	G1173	G1110	G1048
A1933	A1660	U1601	U1541	U1478	A1416	U1355	U1295	U1232	G1174	A1111	C1049
C1934	U1661	U1602	G1542	C1479	C1417	U1356	G1296	G1233	A1175	G1112	C1050
U1935	C1662	G1603	U1543	A1480	U1418	U1357	A1297	G1234	A1176	C1113	C1051
G1936	A1663	A1604	A1544	G1481	U1419	U1358	U1298	A1235	A1177	A1115	A1052
C1940	U1664	G1605	C1545	U1482	G1420	G1359	U1299	A1236	A1178	A1116	G1053
G1942	C1665	U1606	A1546	C1483	A1421	C1360	C1300	G1237	G1179	A1117	G1054
A1943	C1666	G1607	U1547	A1484	G1422	A1361	C1301	A1238	A1181	G1118	G1055
U1944	U1667	A1608	G1548	A1485	U1423	A1362	C1302	A1239	A1182	U1119	A1056
G1945	U1668	U1609	A1549	U1486	A1424	U1363	C1303	G1240	A1183	C1120	A1057
A1946	C1669	U1610	U1550	C1487	G1427	U1364	G1304	C1241	U1184	G1121	A1058
C1947	A1670	G1611	A1551	U1488	A1428	G1365	A1305	G1242	G1185	A1122	C1059
U1948	U1671	G1612	U1552	A1489	U1429	G1366	A1306	U1243	A1186	G1123	U1060
G1949	C1672	C1613	U1553	C1490	A1430	G1367	G1307	U1244	U1187	A1124	C1061
A1950	C1673	G1614	G1554	G1491	A1431	G1368	G1308	A1245	C1188	G1125	G1062
C1952	U1674	C1615	A1555	C1492	A1432	A1369	G1309	A1246	G1189	G1126	G1063
U1953	A1675	G1616	C1556	A1493	C1433	U1370	A1310	U1247	A1190	A1129	U1066
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A1965	U1842	G1843	U1844	C1507	C1447	A1385	G1324	U1260			
G1966	G1844							G1261			
								U1262			
								U1263			

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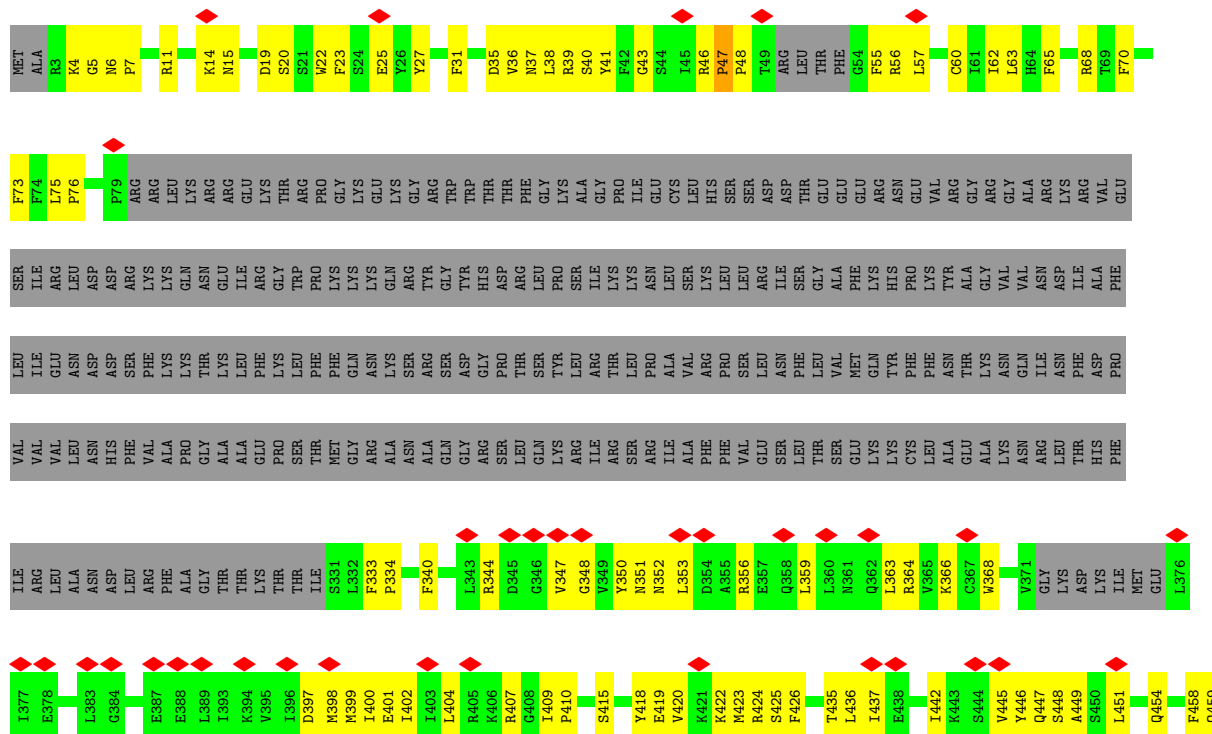
• Molecule 44: RNA (118-MER)

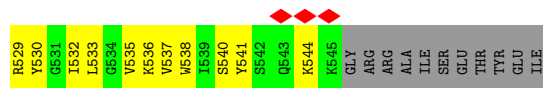
Chain 3: 11% 53% 34%



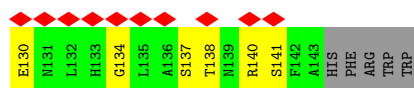
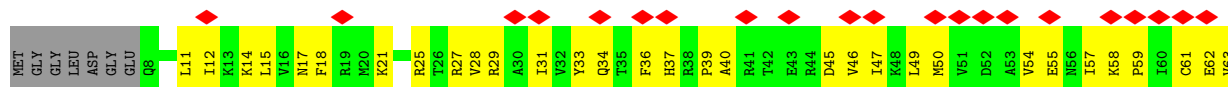
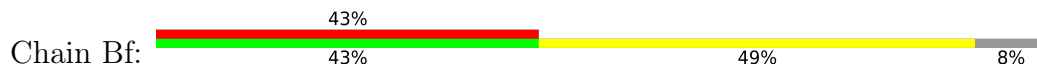
• Molecule 45: Ribosomal protein S3, mitochondrial

Chain Bb: 11% 27% 23% 49%

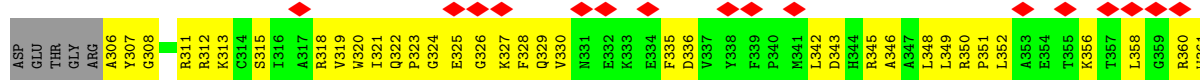
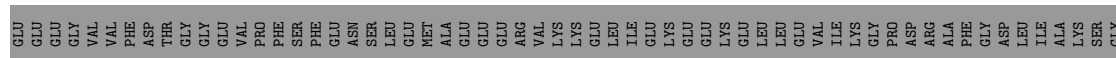
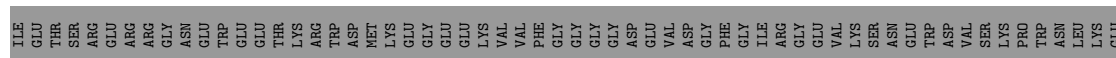
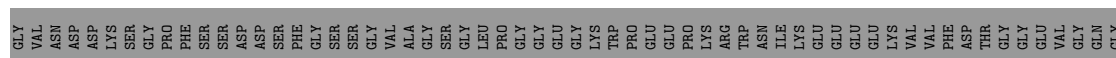




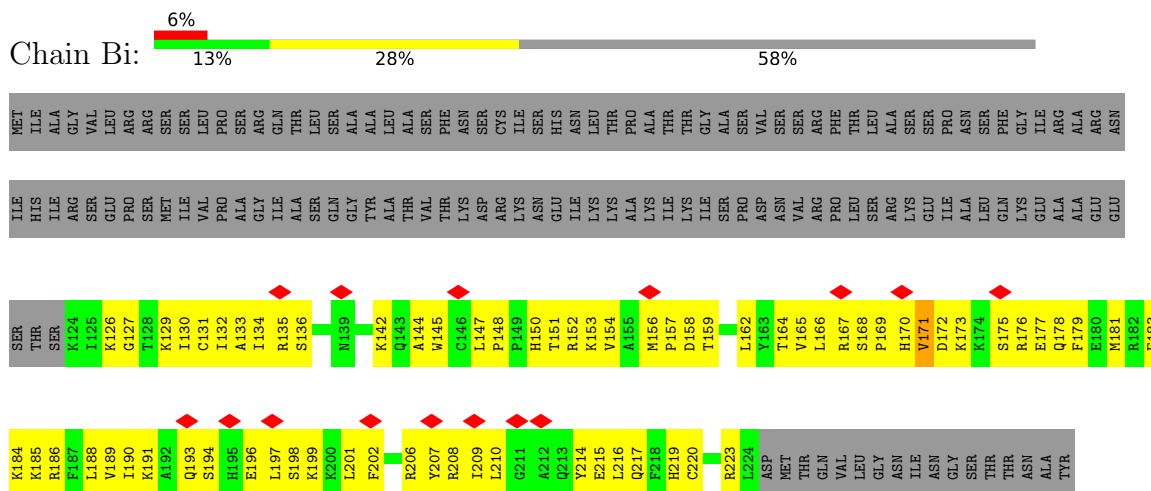
• Molecule 46: Ribosomal protein S7, mitochondrial



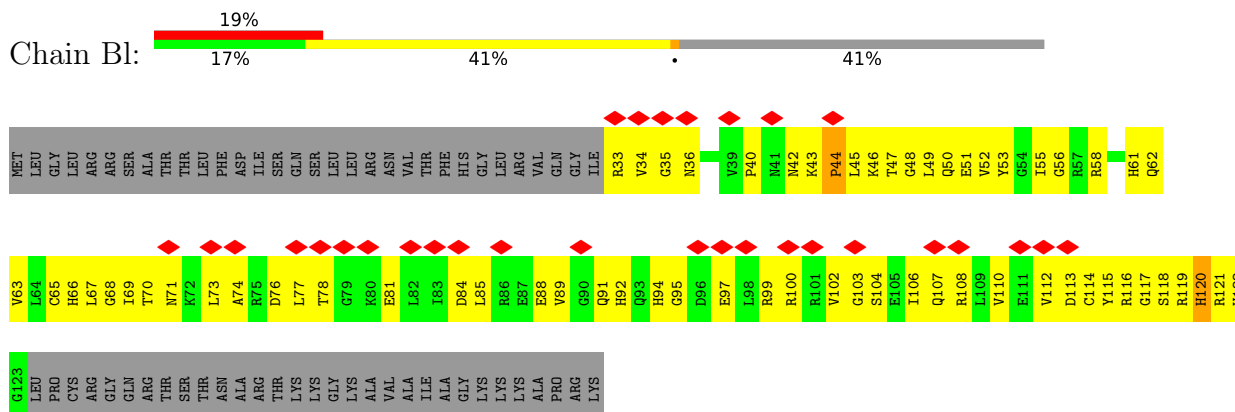
• Molecule 47: 30S ribosomal protein S9, mitochondrial



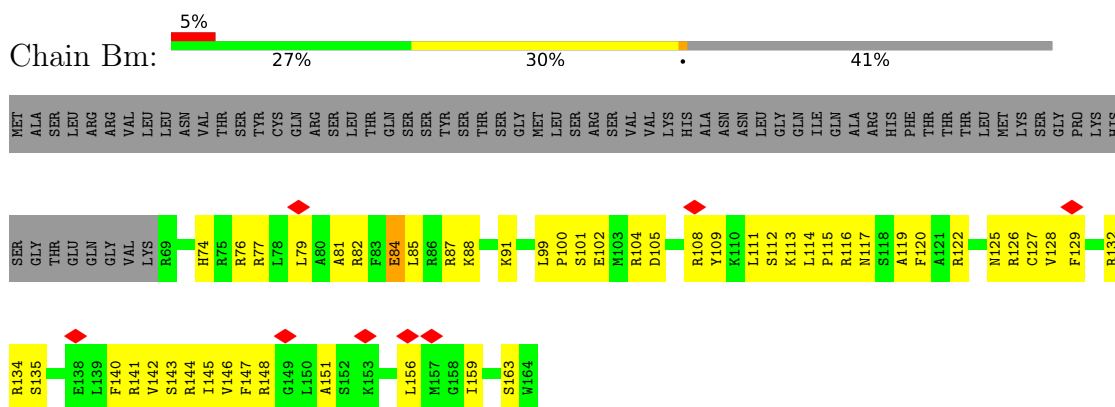
• Molecule 48: 40S ribosomal protein S10, mitochondrial



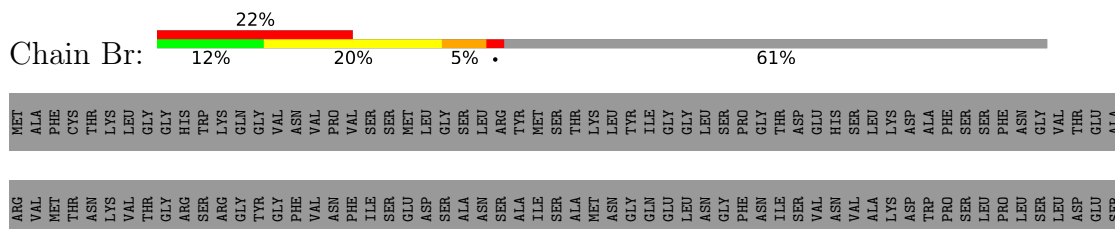
- Molecule 49: Small ribosomal subunit protein S13, mitochondrial

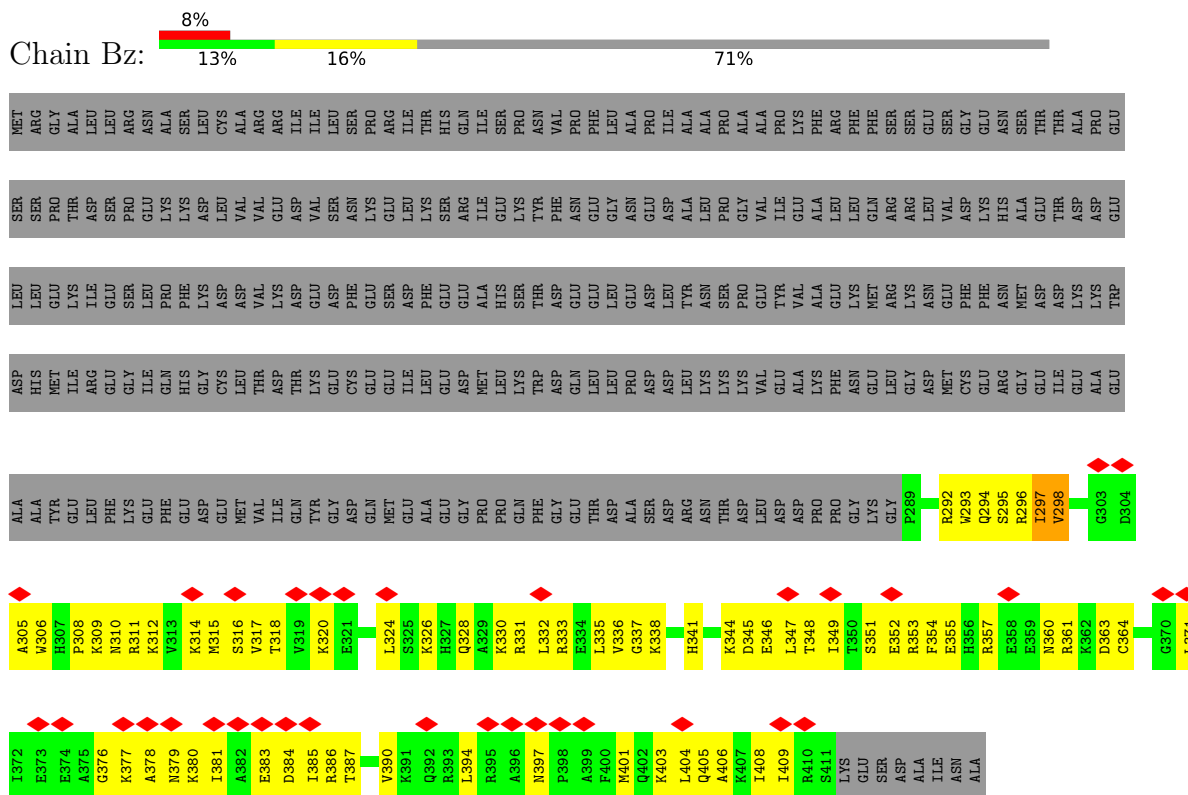


- Molecule 50: At2g34520

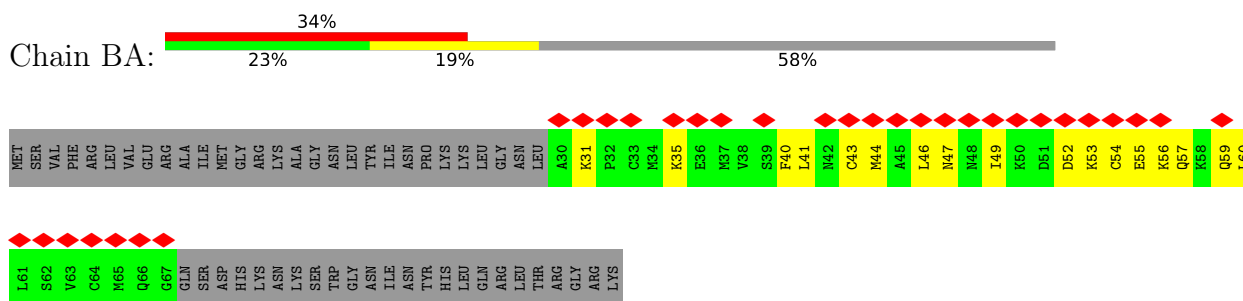


- Molecule 51: 40S ribosomal protein S19, mitochondrial

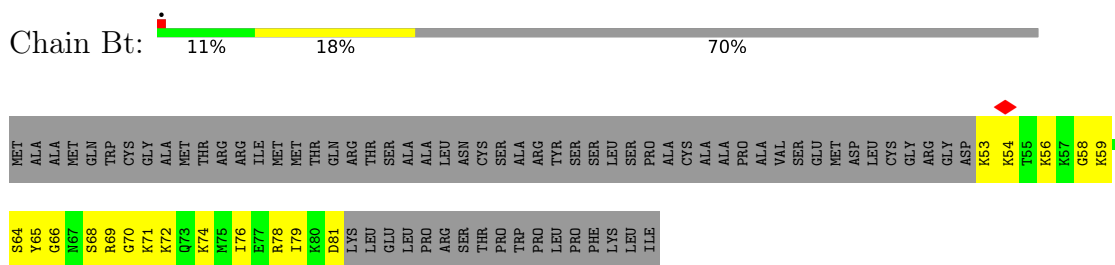




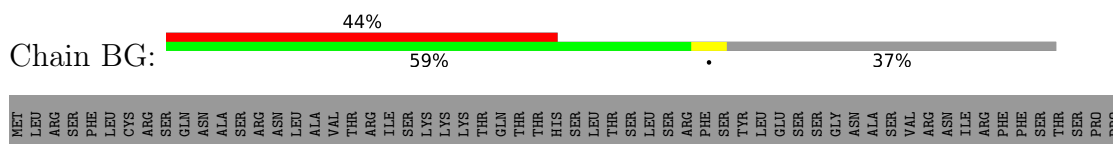
- Molecule 55: CX9C domain-containing protein



- Molecule 56: 30S ribosomal protein S31, mitochondrial

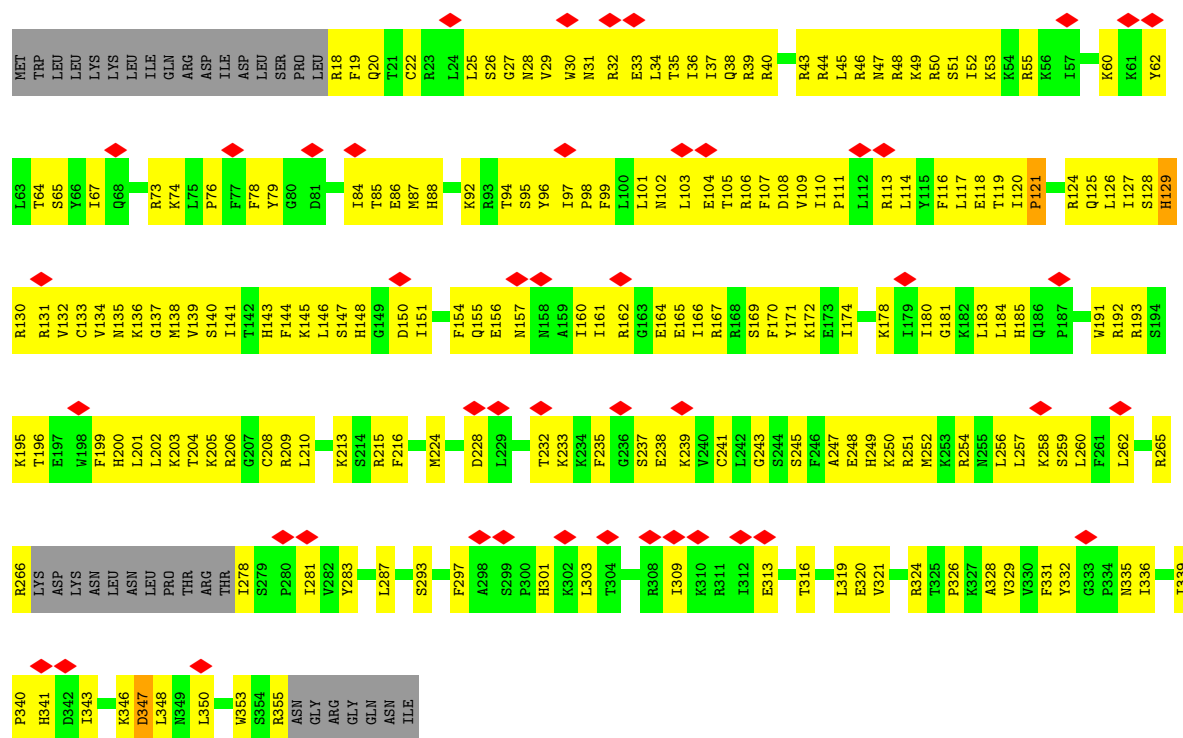


- Molecule 57: Pentatricopeptide repeat-containing protein At3g02650, mitochondrial

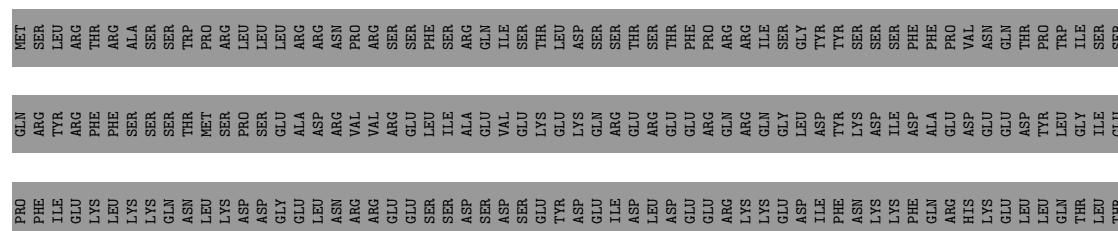


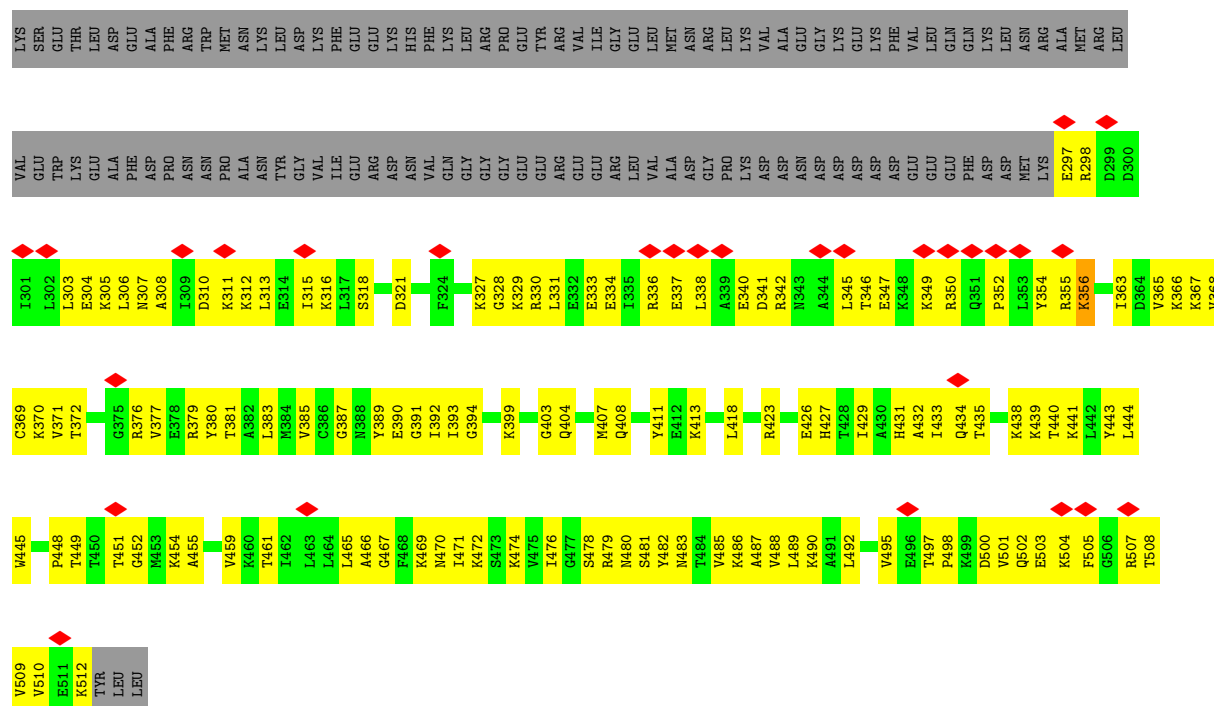


- Molecule 61: Ribosomal protein S4, mitochondrial

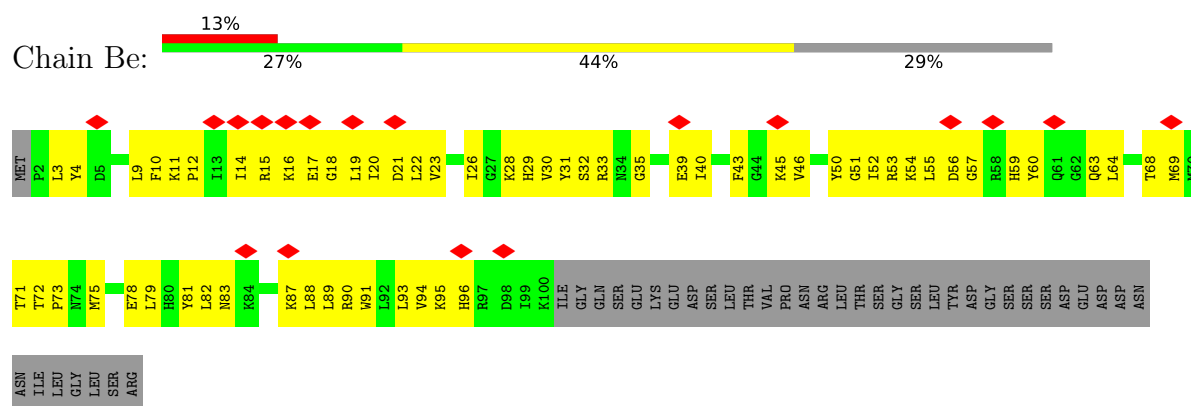


- Molecule 62: At1g64880

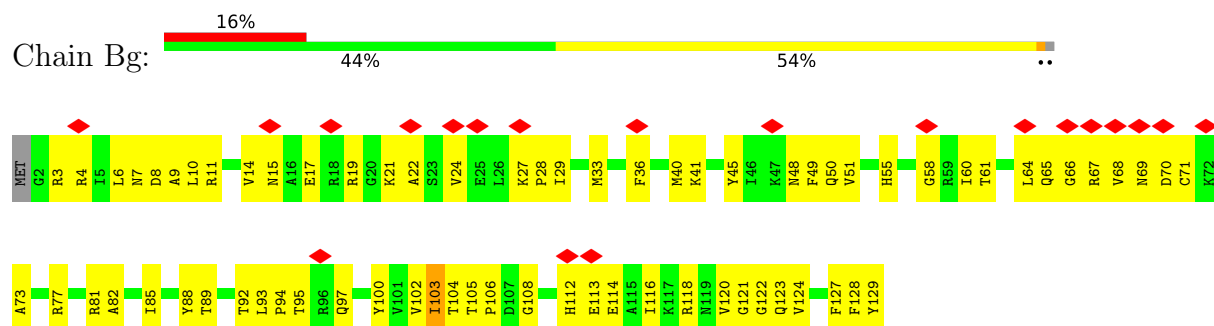




- Molecule 63: Translation elongation factor EF1B/ribosomal protein S6 family protein



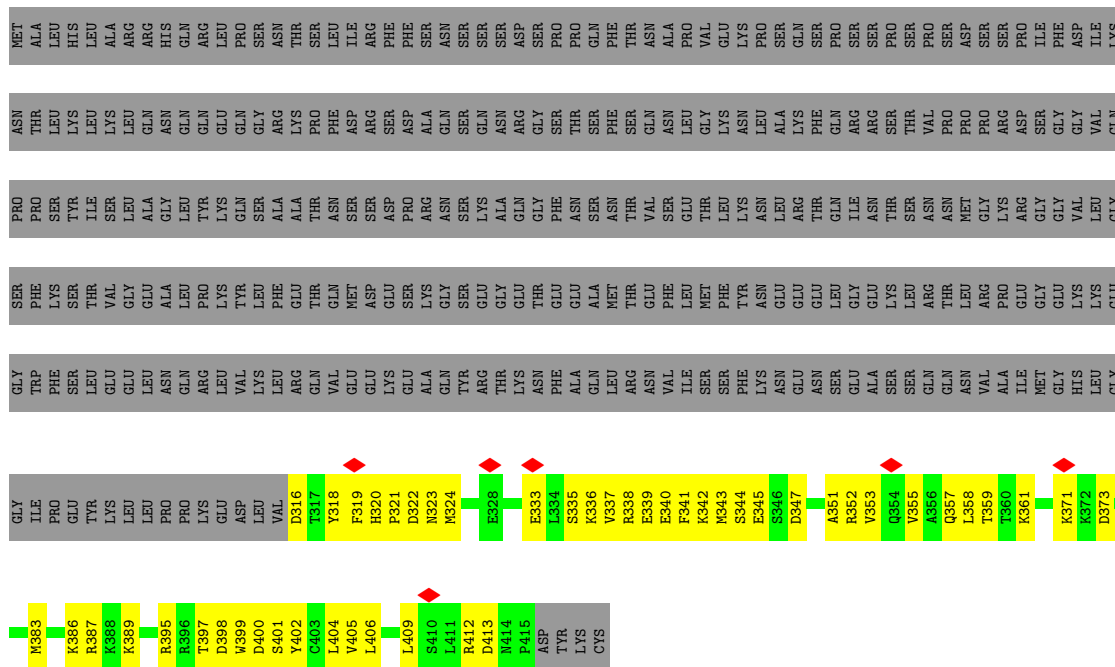
- Molecule 64: 40S ribosomal protein S15a-5



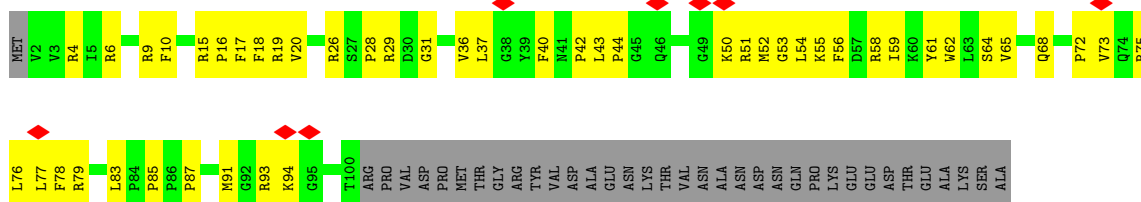
- Molecule 65: Probable ribosomal protein S11, mitochondrial



- Molecule 66: At1g15810/F7H2_23

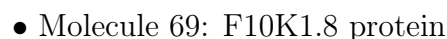


- Molecule 67: 30S ribosomal protein S16-2, chloroplastic/mitochondrial

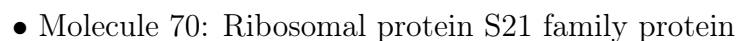


- Molecule 68: Nucleic acid-binding, OB-fold-like protein

Frequency	Percentage
Daily	33%
Weekly	34%
Monthly	33%



Frequency	Percentage
5%	5%
15%	15%
8%	8%
76%	76%



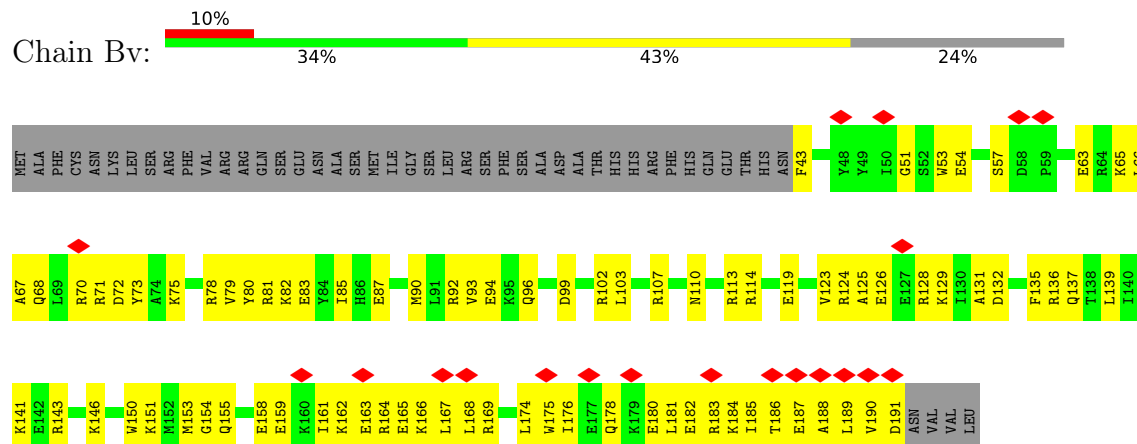
Frequency	Percentage
Daily	14%
Often	46%
Sometimes	20%
Never	35%



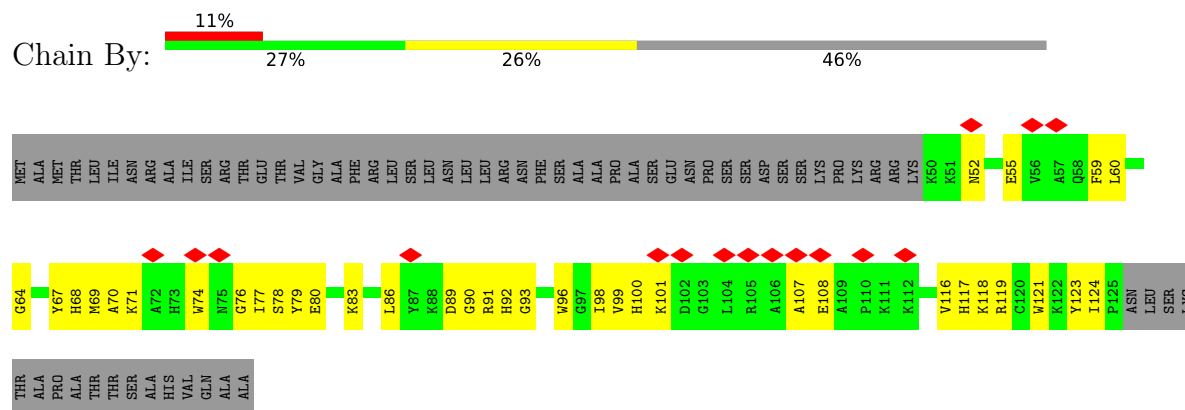
Response	Percentage
Good	26%
Not good	31%
Don't know	21%
No answer	49%



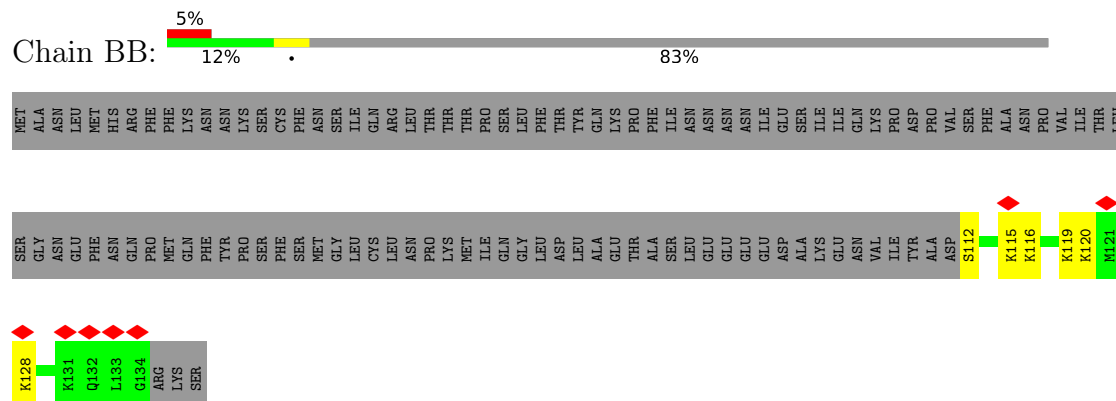
- Molecule 72: AT5g49210/K21P3 8



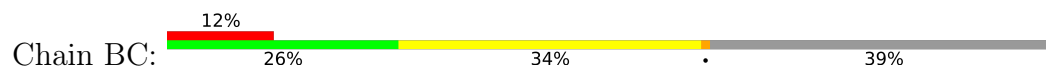
- Molecule 73: 28S ribosomal S34 protein

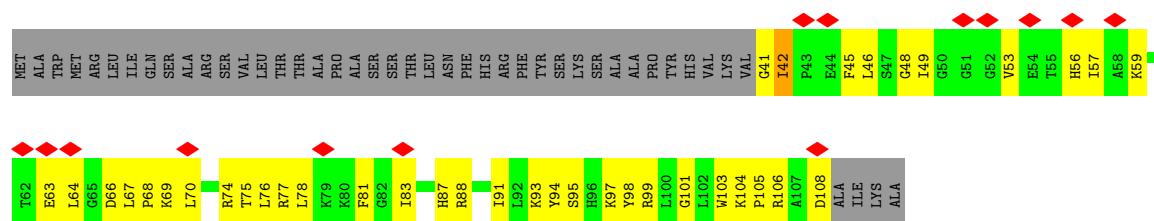


- Molecule 74: mS38

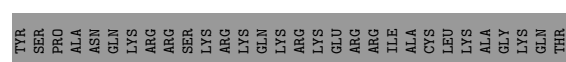
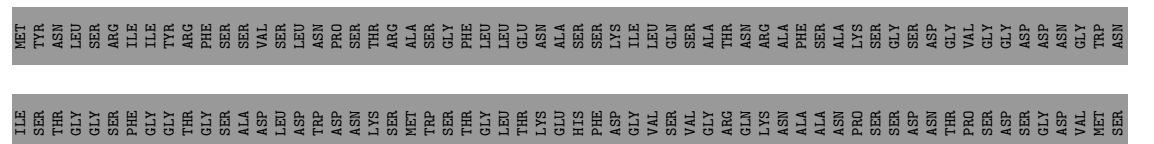
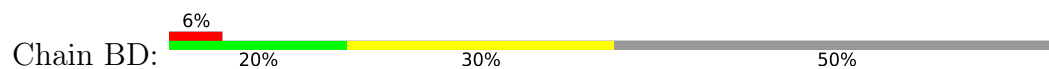


- Molecule 75: At5g26800

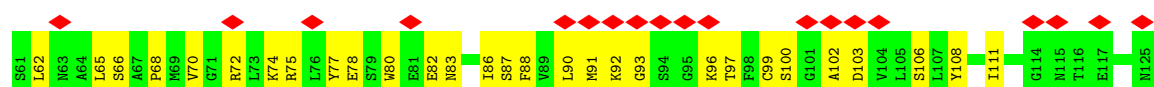
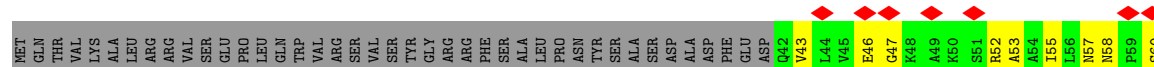


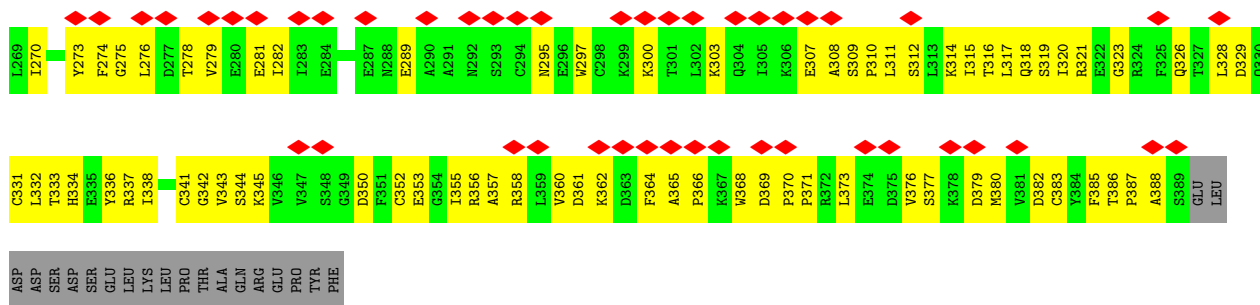


• Molecule 76: Gb|AAC32909.1

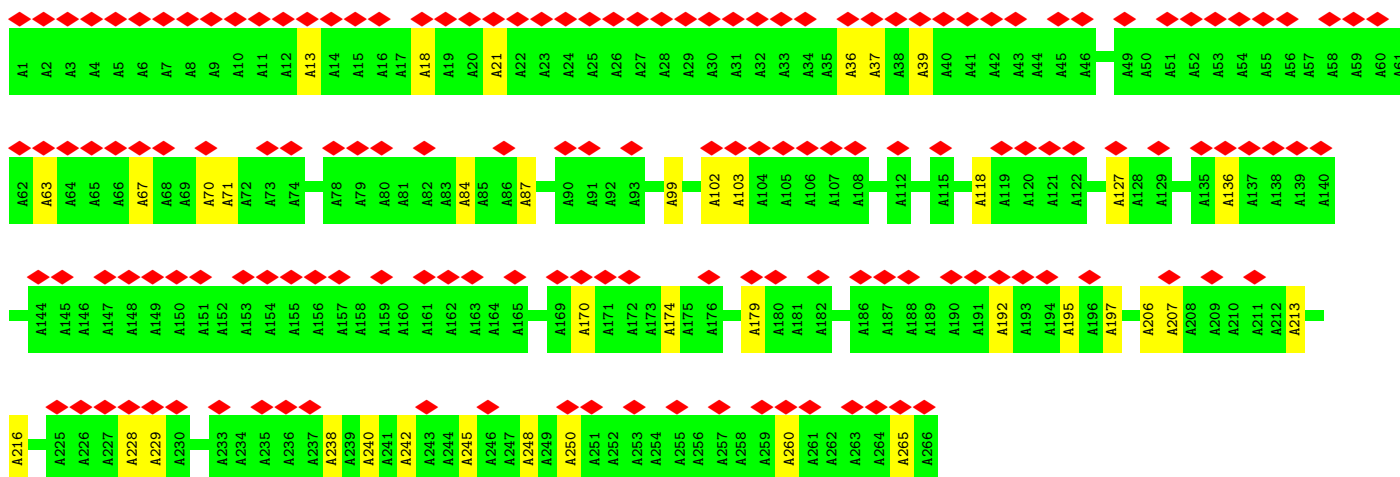
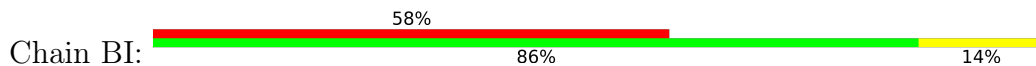


• Molecule 77: 3-hydroxyisobutyryl-CoA hydrolase-like protein 2, mitochondrial

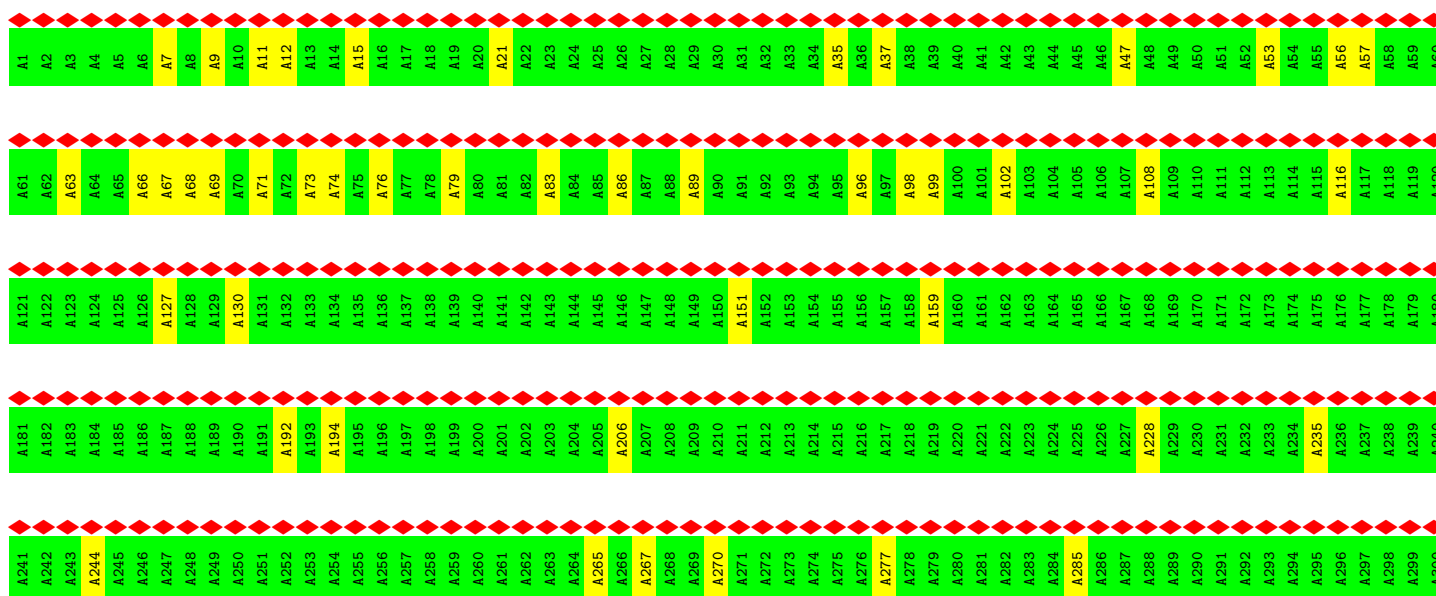
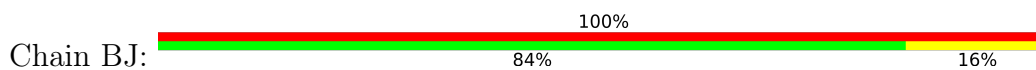


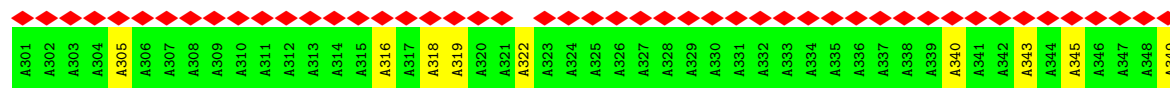


• Molecule 78: rPPR*

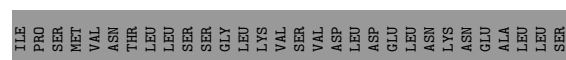
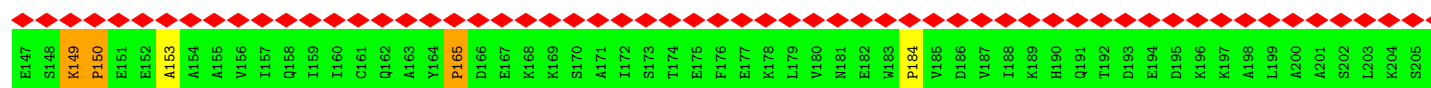
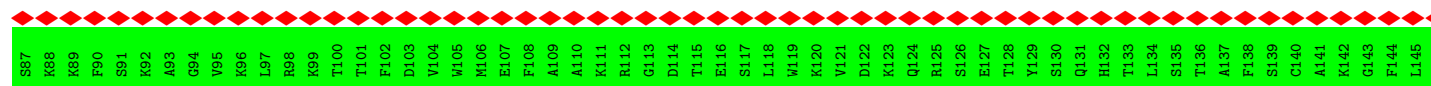
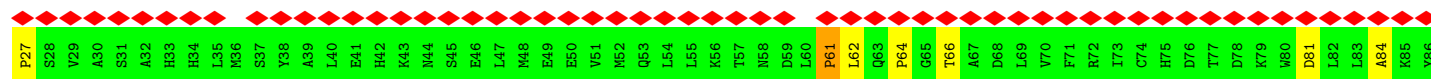
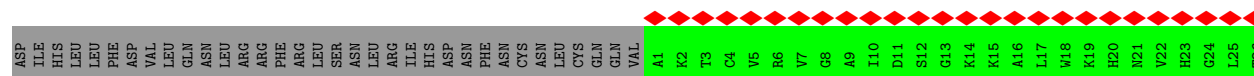
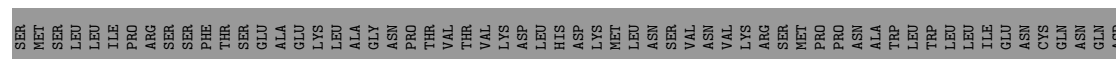
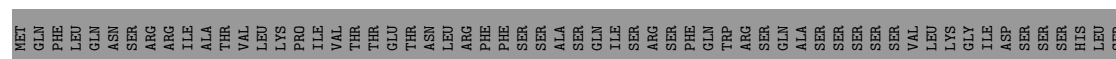


• Molecule 79: rPPR*

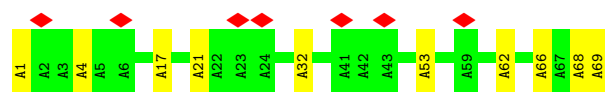
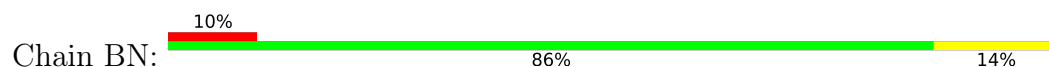




• Molecule 80: Adenylyl cyclase



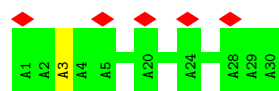
• Molecule 81: UNK-3



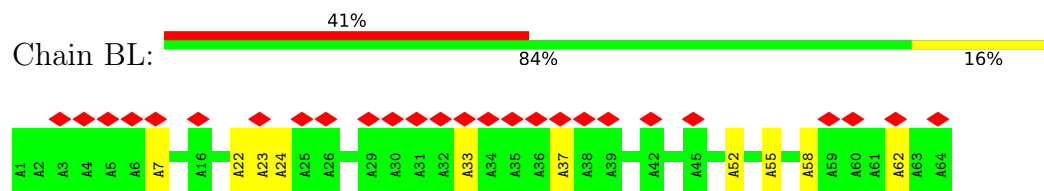
• Molecule 82: UNK-2



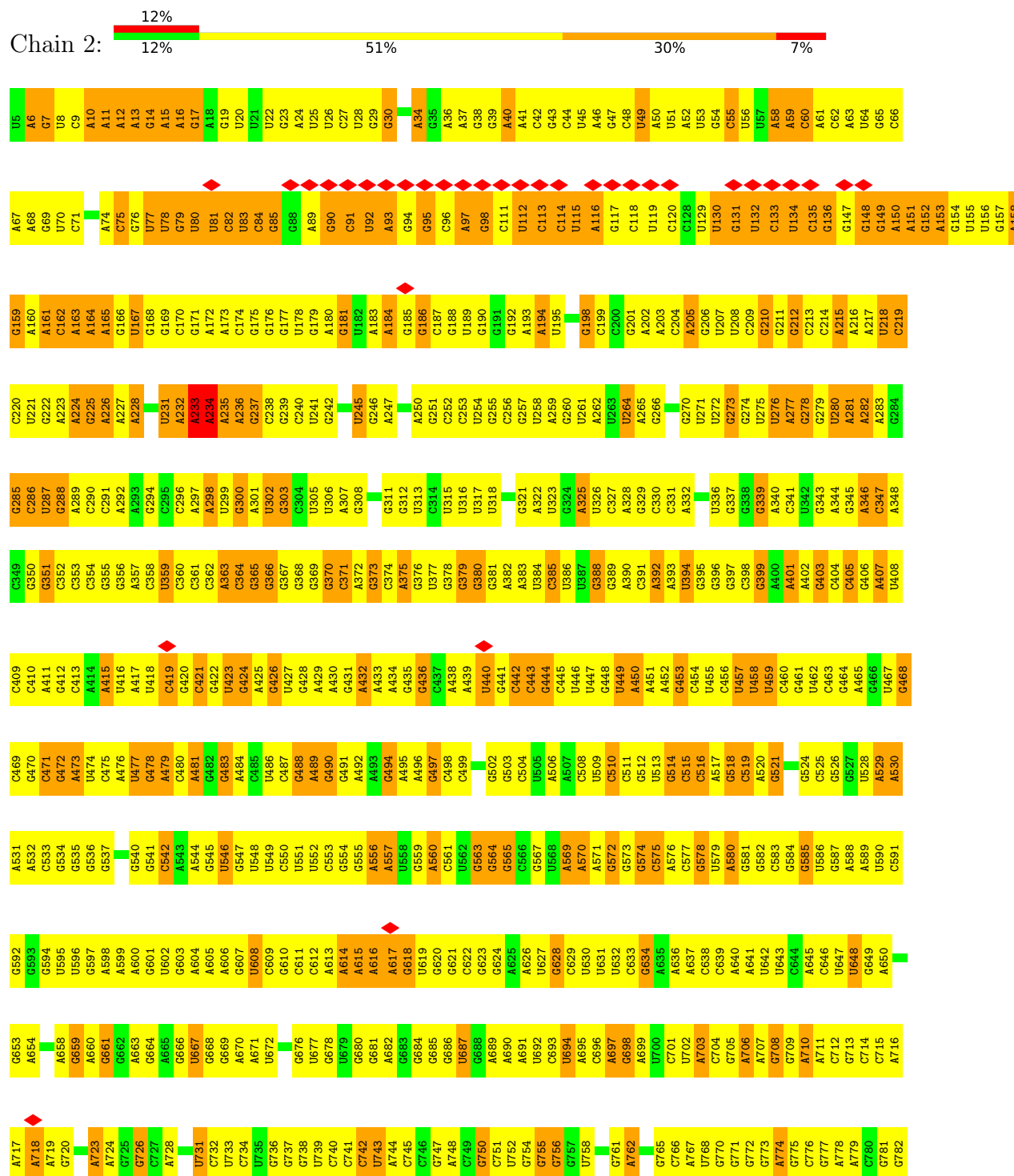
• Molecule 83: UNK-4

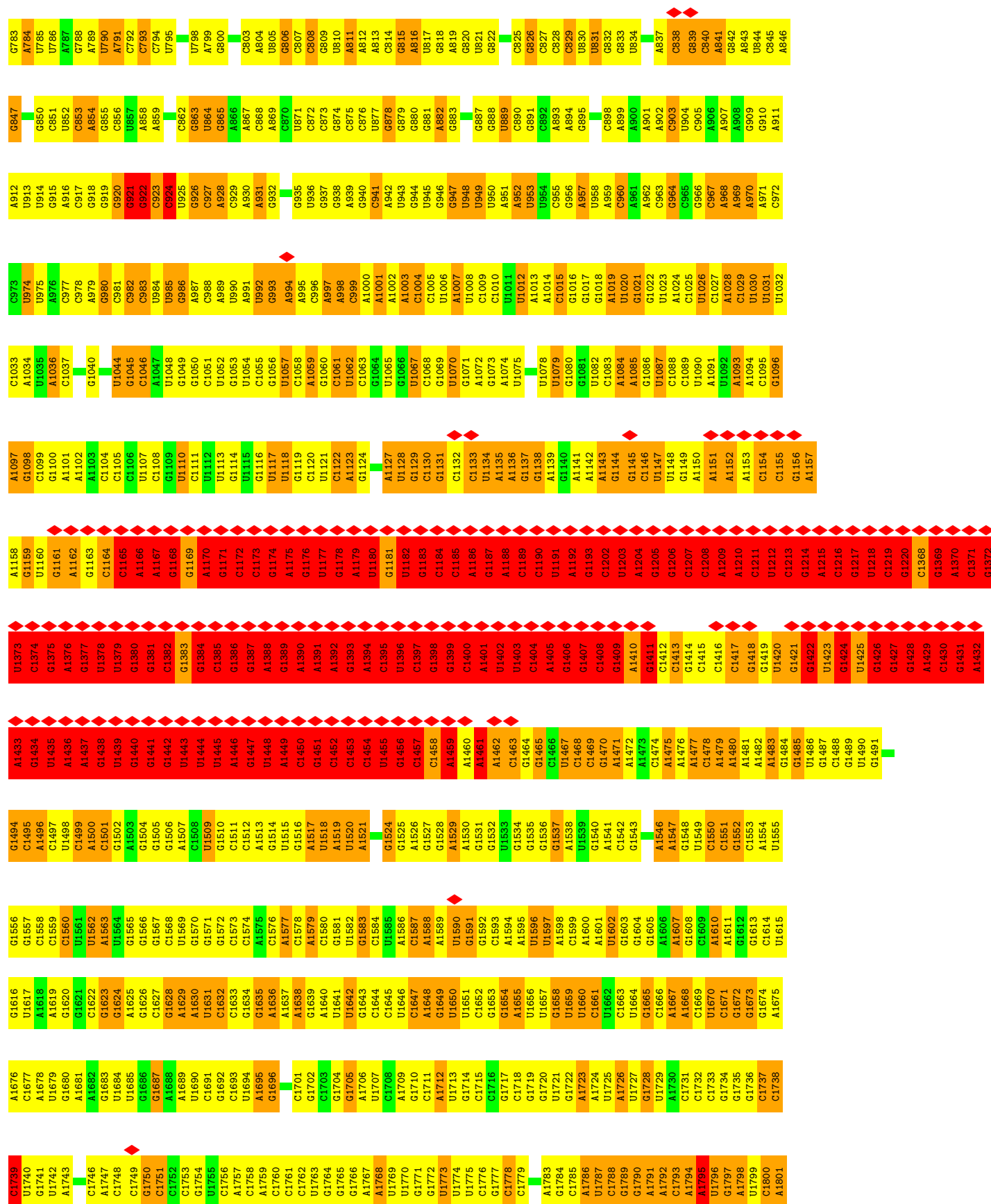


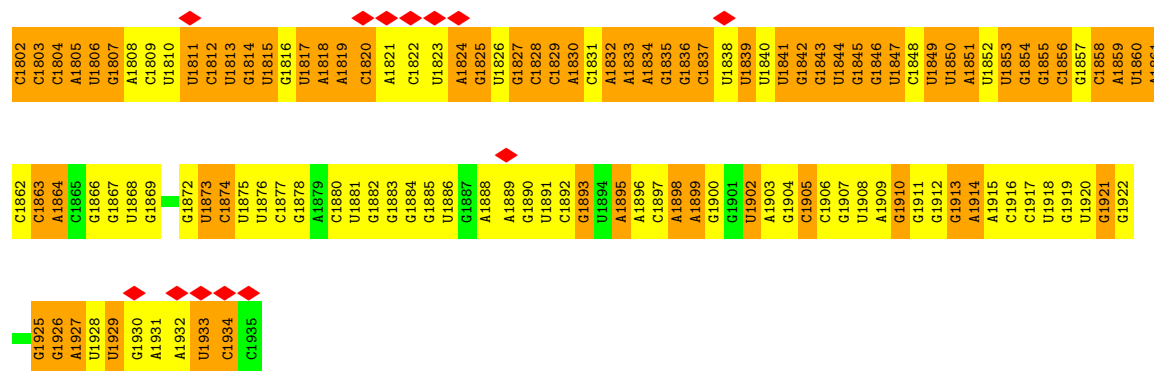
- Molecule 84: UNK-1



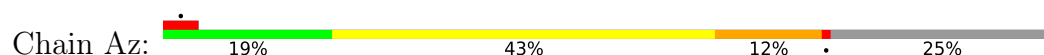
- Molecule 85: RNA (1743-MER)







• Molecule 86: At5g55140



• Molecule 87: 50S ribosomal protein L10

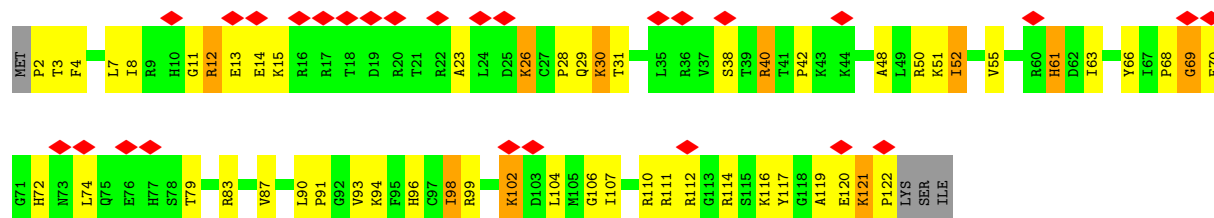


• Molecule 88: rPPR*





- Molecule 89: Ribosomal protein S12, mitochondrial



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	65280	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TALOS ARCTICA	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	3	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	0.196	Depositor
Minimum map value	-0.082	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.011	Depositor
Recommended contour level	0.035	Depositor
Map size (Å)	484.0, 484.0, 484.0	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.21, 1.21, 1.21	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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	Aa	0.54	0/764	0.84	1/1020 (0.1%)
2	Ab	0.43	0/1165	0.58	0/1554
3	Ac	0.48	0/1710	0.68	1/2294 (0.0%)
4	AD	0.42	0/518	0.64	0/686
5	Ad	0.48	0/1680	0.66	0/2267
6	Ae	0.36	0/1198	0.69	0/1620
7	Af	0.27	0/815	0.57	0/1091
8	Ag	0.33	0/413	0.64	0/557
9	Ai	0.34	0/1081	0.59	0/1467
10	Aj	0.41	0/1294	0.62	0/1738
11	Ak	0.41	0/972	0.60	0/1300
12	Al	0.41	0/1433	0.64	0/1914
13	Am	0.41	0/1135	0.70	1/1518 (0.1%)
14	An	0.54	0/1159	0.81	0/1556
15	Ao	0.34	0/849	0.59	0/1141
16	Ap	0.45	0/947	0.68	0/1268
17	Aq	0.44	0/902	0.64	0/1195
18	Ar	0.40	0/1124	0.68	0/1508
19	As	0.47	0/947	0.67	0/1273
20	At	0.44	0/854	0.60	0/1145
21	Au	0.58	0/1133	0.92	2/1527 (0.1%)
22	Av	0.38	0/1546	0.66	0/2091
23	Aw	0.48	0/620	0.59	0/829
24	Ax	0.44	0/826	0.56	0/1105
25	Ay	0.51	0/962	0.79	3/1290 (0.2%)
26	AA	0.50	0/303	0.93	0/400
27	AB	0.47	0/326	0.72	0/433
28	AC	0.40	0/441	0.56	0/584
29	AE	0.34	0/300	0.54	0/394
30	AF	0.41	0/674	0.72	0/908
31	AG	0.46	0/500	0.72	0/677
32	AH	0.38	0/894	0.60	0/1205
33	AI	0.32	0/1765	0.59	0/2388
34	AJ	0.36	0/639	0.67	0/862

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
35	AK	0.37	0/744	0.63	1/984 (0.1%)
36	AL	0.39	0/407	0.65	0/549
37	AM	0.34	0/667	0.54	0/899
38	AN	0.34	0/667	0.54	0/877
39	AO	0.32	0/3654	0.60	2/4927 (0.0%)
40	AP	0.28	0/3344	0.65	3/4680 (0.1%)
41	AQ	0.31	0/2947	0.57	0/3942
42	AR	0.24	0/144	0.48	0/200
43	1	0.46	0/68131	0.51	1/106225 (0.0%)
44	3	0.38	0/2810	0.58	3/4378 (0.1%)
45	Bb	0.35	0/2346	0.62	0/3146
46	Bf	0.26	0/1121	0.54	0/1501
47	Bh	0.29	0/995	0.55	0/1336
48	Bi	0.34	0/878	0.68	0/1175
49	Bl	0.32	0/738	0.76	0/987
50	Bm	0.31	0/807	0.60	0/1072
51	Br	0.94	1/700 (0.1%)	1.72	12/932 (1.3%)
52	Bw	0.27	0/2793	0.65	0/3785
53	Bx	0.34	0/653	0.63	0/873
54	Bz	0.28	0/1027	0.52	0/1371
55	BA	0.27	0/294	0.58	0/388
56	Bt	0.26	0/240	0.59	0/307
57	BG	0.27	0/1794	0.69	9/2495 (0.4%)
58	BP	0.19	0/451	0.29	0/625
59	BF	0.21	0/614	0.52	0/858
60	Ba	0.44	0/1600	0.90	4/2162 (0.2%)
61	Bc	0.32	0/2831	0.67	0/3795
62	Bd	0.41	0/1755	0.65	0/2351
63	Be	0.33	0/834	0.67	0/1115
64	Bg	0.37	0/1059	0.68	0/1424
65	Bj	0.31	0/967	0.55	0/1293
66	Bn	0.34	0/826	0.56	0/1099
67	Bo	0.36	0/800	0.69	0/1074
68	Bp	0.34	0/647	0.58	0/868
69	Bq	0.35	0/497	0.55	0/664
70	Bs	0.29	0/542	0.53	0/716
71	Bu	0.27	0/815	0.54	0/1091
72	Bv	0.29	0/1294	0.55	0/1721
73	By	0.27	0/639	0.53	0/860
74	BB	0.36	0/204	0.46	0/260
75	BC	0.27	0/556	0.56	0/745
76	BD	0.32	0/1805	0.61	0/2409
77	BE	0.28	0/2751	0.56	0/3723

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
78	BI	0.18	0/1329	0.42	0/1859
79	BJ	0.18	0/1744	0.43	0/2440
80	BH	0.25	0/1022	0.68	6/1425 (0.4%)
81	BN	0.23	0/344	0.43	0/480
82	BM	0.21	0/394	0.46	0/550
83	BO	0.18	0/149	0.28	0/207
84	BL	0.21	0/319	0.42	0/445
85	2	0.99	181/41845 (0.4%)	0.91	229/65247 (0.4%)
86	Az	1.11	0/669	1.46	11/898 (1.2%)
87	Ah	0.97	1/1117 (0.1%)	1.46	8/1505 (0.5%)
88	BK	1.15	0/1579	1.61	9/2209 (0.4%)
89	Bk	0.91	0/985	1.33	6/1315 (0.5%)
All	All	0.60	183/202773 (0.1%)	0.70	312/297267 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
18	Ar	0	2
20	At	0	1
21	Au	0	1
24	Ax	0	1
26	AA	0	1
27	AB	0	1
33	AI	0	1
37	AM	0	2
39	AO	0	2
40	AP	0	3
41	AQ	0	1
48	Bi	0	1
49	Bl	0	1
51	Br	0	2
52	Bw	0	1
61	Bc	0	1
62	Bd	0	2
65	Bj	0	1
79	BJ	0	1
85	2	5	30
87	Ah	0	2
All	All	5	58

All (183) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	2	1391	A	O3'-P	-43.87	0.95	1.61
85	2	1402	U	O3'-P	-37.69	1.04	1.61
85	2	1450	C	O3'-P	37.41	2.17	1.61
85	2	1385	C	O3'-P	-35.61	1.07	1.61
85	2	1379	U	O3'-P	-35.44	1.07	1.61
85	2	1428	G	O3'-P	-29.60	1.16	1.61
85	2	1403	U	P-O5'	-28.78	1.16	1.59
85	2	1451	G	O3'-P	28.21	2.03	1.61
85	2	1445	U	O3'-P	-28.04	1.19	1.61
85	2	1404	C	O3'-P	-26.48	1.21	1.61
85	2	1166	A	O3'-P	-26.47	1.21	1.61
85	2	1390	A	O3'-P	25.21	1.99	1.61
85	2	1167	A	O3'-P	-24.40	1.24	1.61
85	2	1179	A	O3'-P	-22.61	1.27	1.61
85	2	1206	G	O3'-P	-22.02	1.28	1.61
85	2	1381	G	O3'-P	-21.51	1.28	1.61
85	2	1406	G	O3'-P	-20.48	1.30	1.61
85	2	1429	A	C3'-O3'	-18.14	1.15	1.42
85	2	1438	G	O3'-P	-18.06	1.34	1.61
85	2	1207	C	O3'-P	-17.05	1.35	1.61
85	2	1169	G	O3'-P	16.66	1.86	1.61
85	2	1381	G	C5'-C4'	-16.30	1.26	1.51
85	2	1431	G	O3'-P	-16.30	1.36	1.61
85	2	1408	C	O3'-P	-16.04	1.37	1.61
85	2	1430	C	O3'-P	-16.03	1.37	1.61
85	2	1169	G	P-O5'	15.97	1.83	1.59
85	2	1191	U	O3'-P	-14.90	1.38	1.61
85	2	1202	C	O3'-P	14.81	1.83	1.61
85	2	1378	U	O3'-P	-14.58	1.39	1.61
85	2	1187	G	O3'-P	14.16	1.82	1.61
85	2	1177	U	O3'-P	-13.60	1.40	1.61
85	2	1403	U	O3'-P	-13.58	1.40	1.61
85	2	1437	A	O3'-P	13.42	1.81	1.61
85	2	1205	G	P-O5'	-12.82	1.40	1.59
85	2	1439	U	O3'-P	-12.80	1.42	1.61
85	2	1186	A	O3'-P	-11.81	1.43	1.61
85	2	1392	A	O3'-P	-11.59	1.43	1.61
85	2	1447	G	O3'-P	-11.57	1.43	1.61
85	2	1400	C	O3'-P	-11.55	1.43	1.61
85	2	1455	U	O3'-P	-11.54	1.43	1.61
85	2	1217	G	O3'-P	-11.53	1.43	1.61
85	2	1401	A	O3'-P	-11.51	1.43	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	2	1219	C	O3'-P	-11.51	1.43	1.61
85	2	1448	U	O3'-P	-11.51	1.43	1.61
85	2	1443	U	O3'-P	-11.50	1.44	1.61
85	2	1212	U	O3'-P	-11.49	1.44	1.61
85	2	1210	A	O3'-P	-11.49	1.44	1.61
85	2	1398	G	O3'-P	-11.49	1.44	1.61
85	2	1213	C	O3'-P	-11.49	1.44	1.61
85	2	1452	C	O3'-P	-11.49	1.44	1.61
85	2	1218	U	O3'-P	-11.48	1.44	1.61
85	2	1395	C	O3'-P	-11.47	1.44	1.61
85	2	1446	A	O3'-P	-11.47	1.44	1.61
85	2	1397	C	O3'-P	-11.46	1.44	1.61
85	2	1384	G	O3'-P	-11.46	1.44	1.61
85	2	1209	A	O3'-P	-11.46	1.44	1.61
85	2	1214	G	O3'-P	-11.46	1.44	1.61
85	2	1444	U	O3'-P	-11.45	1.44	1.61
85	2	1396	U	O3'-P	-11.44	1.44	1.61
85	2	1216	C	O3'-P	-11.43	1.44	1.61
85	2	1453	C	O3'-P	-11.43	1.44	1.61
85	2	1388	A	O3'-P	-11.43	1.44	1.61
85	2	1215	A	O3'-P	-11.42	1.44	1.61
85	2	1389	G	O3'-P	-11.42	1.44	1.61
85	2	1394	A	O3'-P	-11.42	1.44	1.61
85	2	1211	C	O3'-P	-11.39	1.44	1.61
85	2	1170	A	O3'-P	11.28	1.78	1.61
85	2	1427	G	O3'-P	-11.23	1.44	1.61
85	2	1443	U	O5'-C5'	-10.74	1.26	1.42
85	2	1165	C	O3'-P	10.58	1.77	1.61
85	2	1433	A	O3'-P	-10.19	1.45	1.61
85	2	1456	G	O3'-P	-10.09	1.46	1.61
85	2	1168	G	O3'-P	-10.07	1.46	1.61
85	2	1407	G	O3'-P	-9.75	1.46	1.61
85	2	1386	G	O3'-P	-9.65	1.46	1.61
85	2	1409	G	C2'-O2'	9.37	1.56	1.42
85	2	1383	G	C1'-N9	9.35	1.60	1.47
85	2	1405	A	C1'-N9	9.31	1.60	1.47
85	2	1447	G	C1'-N9	9.30	1.60	1.47
85	2	1400	C	C1'-N1	9.09	1.61	1.47
85	2	1212	U	C1'-N1	9.05	1.61	1.47
85	2	1395	C	C1'-N1	9.04	1.61	1.47
85	2	1218	U	C1'-N1	9.04	1.61	1.47
85	2	1443	U	C1'-N1	9.01	1.60	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	2	1203	U	C1'-N1	9.00	1.60	1.47
85	2	1444	U	C1'-N1	8.97	1.60	1.47
85	2	1448	U	C1'-N1	8.95	1.60	1.47
85	2	1403	U	C1'-N1	8.93	1.60	1.47
85	2	1403	U	C3'-O3'	-8.65	1.30	1.43
85	2	1391	A	C1'-N9	8.59	1.60	1.48
85	2	1404	C	C1'-N1	8.34	1.60	1.48
85	2	1428	G	C1'-N9	-8.05	1.35	1.48
85	2	1459	A	C3'-O3'	-7.96	1.31	1.43
85	2	1383	G	O3'-P	-7.89	1.49	1.61
85	2	1177	U	C1'-N1	-7.82	1.35	1.47
85	2	1435	U	C1'-N1	-7.77	1.35	1.47
85	2	1172	C	C1'-N1	-7.68	1.35	1.47
85	2	1457	C	O3'-P	-7.66	1.49	1.61
85	2	1380	G	C1'-N9	-7.47	1.35	1.47
85	2	1431	G	C1'-N9	-7.47	1.35	1.47
85	2	1169	G	C1'-N9	-7.46	1.35	1.47
85	2	1377	G	C1'-N9	-7.46	1.35	1.47
85	2	1369	G	C1'-N9	-7.43	1.35	1.47
85	2	1422	G	C1'-N9	-7.43	1.35	1.47
85	2	1193	G	C1'-N9	-7.42	1.35	1.47
85	2	1407	G	C1'-N9	-7.42	1.35	1.47
85	2	1427	G	C1'-N9	-7.42	1.35	1.47
85	2	1406	G	C1'-N9	-7.41	1.35	1.47
85	2	1434	G	C1'-N9	-7.39	1.35	1.47
85	2	1424	G	C1'-N9	-7.39	1.35	1.47
85	2	1381	G	C1'-N9	-7.38	1.35	1.47
85	2	1440	G	C1'-N9	-7.38	1.35	1.47
85	2	1179	A	C1'-N9	-7.38	1.35	1.47
85	2	1183	G	C1'-N9	-7.38	1.35	1.47
85	2	1438	G	C1'-N9	-7.37	1.35	1.47
85	2	1426	G	C1'-N9	-7.37	1.35	1.47
85	2	1441	G	C1'-N9	-7.36	1.35	1.47
85	2	1442	G	C1'-N9	-7.36	1.35	1.47
85	2	1187	G	C1'-N9	-7.35	1.35	1.47
85	2	1175	A	C1'-N9	-7.34	1.35	1.47
85	2	1372	G	C1'-N9	-7.34	1.35	1.47
85	2	1375	G	C1'-N9	-7.34	1.35	1.47
85	2	1184	C	O3'-P	-7.11	1.50	1.61
85	2	1368	C	O3'-P	-7.11	1.50	1.61
85	2	1175	A	O3'-P	-7.09	1.50	1.61
85	2	1377	G	O3'-P	-7.08	1.50	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	2	1171	G	O3'-P	-7.06	1.50	1.61
85	2	1173	C	O3'-P	-7.05	1.50	1.61
85	2	1371	C	O3'-P	-7.05	1.50	1.61
85	2	1185	C	O3'-P	-7.05	1.50	1.61
85	2	1374	C	O3'-P	-7.04	1.50	1.61
85	2	1180	U	O3'-P	-7.04	1.50	1.61
85	2	1372	G	O3'-P	-7.04	1.50	1.61
85	2	1172	C	O3'-P	-7.03	1.50	1.61
85	2	1435	U	O3'-P	-7.03	1.50	1.61
85	2	1426	G	O3'-P	-7.03	1.50	1.61
85	2	1432	A	O3'-P	-7.03	1.50	1.61
85	2	1174	G	O3'-P	-7.03	1.50	1.61
85	2	1373	U	O3'-P	-7.02	1.50	1.61
85	2	1375	G	O3'-P	-7.02	1.50	1.61
85	2	1370	A	O3'-P	-7.02	1.50	1.61
85	2	1189	C	O3'-P	-7.01	1.50	1.61
85	2	1192	A	O3'-P	-7.01	1.50	1.61
85	2	1178	G	O3'-P	-7.01	1.50	1.61
85	2	1190	C	O3'-P	-7.00	1.50	1.61
85	2	1376	A	O3'-P	-6.99	1.50	1.61
85	2	1183	G	O3'-P	-6.99	1.50	1.61
85	2	1176	G	O3'-P	-6.97	1.50	1.61
85	2	1182	U	O3'-P	-6.97	1.50	1.61
85	2	1369	G	O3'-P	-6.97	1.50	1.61
85	2	1436	A	O3'-P	-6.97	1.50	1.61
85	2	1434	G	O3'-P	-6.96	1.50	1.61
85	2	1424	G	O3'-P	-6.95	1.50	1.61
85	2	1454	C	O3'-P	-6.76	1.51	1.61
85	2	1405	A	O3'-P	-6.74	1.51	1.61
85	2	1379	U	C5'-C4'	-6.49	1.41	1.51
85	2	1411	G	O5'-C5'	6.43	1.52	1.42
85	2	1382	C	O3'-P	6.13	1.70	1.61
85	2	1188	A	O3'-P	6.09	1.70	1.61
85	2	921	G	C3'-O3'	5.94	1.52	1.43
85	2	1410	A	P-OP2	5.93	1.60	1.49
85	2	1429	A	C1'-N9	-5.75	1.39	1.48
51	Br	161	ARG	CZ-NH2	-5.68	1.26	1.33
85	2	1380	G	O3'-P	5.55	1.69	1.61
87	Ah	22	HIS	CE1-NE2	5.52	1.38	1.32
85	2	1205	G	O3'-P	-5.45	1.52	1.61
85	2	1404	C	C3'-O3'	5.44	1.50	1.42
85	2	1180	U	C1'-N1	-5.37	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	2	1169	G	C5'-C4'	-5.29	1.43	1.51
85	2	1167	A	C1'-N9	-5.20	1.39	1.47
85	2	1176	G	C1'-N9	-5.19	1.39	1.47
85	2	1186	A	C1'-N9	-5.18	1.39	1.47
85	2	1171	G	C1'-N9	-5.17	1.39	1.47
85	2	1432	A	C1'-N9	-5.15	1.39	1.47
85	2	1437	A	C1'-N9	-5.15	1.39	1.47
85	2	1376	A	C1'-N9	-5.12	1.39	1.47
85	2	1166	A	C1'-N9	-5.12	1.39	1.47
85	2	1188	A	C1'-N9	-5.12	1.39	1.47
85	2	1192	A	C1'-N9	-5.12	1.39	1.47
85	2	1433	A	C1'-N9	-5.12	1.39	1.47
85	2	1168	G	C1'-N9	-5.11	1.39	1.47
85	2	1436	A	C1'-N9	-5.09	1.39	1.47
85	2	1370	A	C1'-N9	-5.05	1.39	1.47

All (312) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	2	1445	U	O3'-P-O5'	-40.52	43.22	104.00
85	2	1428	G	P-O3'-C3'	31.37	167.26	120.20
85	2	1451	G	O3'-P-O5'	29.65	148.48	104.00
85	2	1409	G	C2'-C3'-O3'	-29.48	69.48	113.70
85	2	1379	U	O5'-C5'-C4'	28.92	154.89	111.50
85	2	1404	C	P-O3'-C3'	27.71	161.77	120.20
85	2	1454	C	P-O3'-C3'	27.46	161.39	120.20
85	2	1409	G	C4'-C3'-O3'	27.39	154.09	113.00
85	2	1381	G	P-O5'-C5'	27.14	161.61	120.90
85	2	1457	C	P-O3'-C3'	25.67	158.70	120.20
85	2	1391	A	P-O3'-C3'	25.43	158.35	120.20
85	2	1205	G	P-O5'-C5'	25.30	158.86	120.90
85	2	1178	G	O5'-C5'-C4'	24.56	148.54	111.70
85	2	1169	G	O5'-C5'-C4'	24.48	148.42	111.70
85	2	1166	A	P-O3'-C3'	23.64	155.66	120.20
85	2	1380	G	P-O3'-C3'	-23.20	85.40	120.20
85	2	1382	C	P-O5'-C5'	23.00	155.40	120.90
85	2	1165	C	P-O3'-C3'	-22.21	86.88	120.20
85	2	1188	A	O5'-C5'-C4'	21.75	144.32	111.70
85	2	1407	G	P-O5'-C5'	21.09	152.53	120.90
85	2	1178	G	P-O5'-C5'	20.34	151.41	120.90
85	2	1443	U	P-O5'-C5'	20.12	151.08	120.90
85	2	1422	G	O3'-P-O5'	19.89	133.83	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	2	1207	C	O5'-C5'-C4'	19.41	140.81	111.70
85	2	1169	G	P-O3'-C3'	19.35	149.22	120.20
85	2	1378	U	P-O3'-C3'	18.96	148.64	120.20
60	Ba	182	VAL	N-CA-C	-18.86	96.28	112.12
85	2	1433	A	P-O3'-C3'	18.58	148.07	120.20
85	2	1207	C	P-O3'-C3'	18.53	148.00	120.20
85	2	1382	C	P-O3'-C3'	-18.46	92.50	120.20
85	2	1440	G	O3'-P-O5'	-17.98	77.03	104.00
85	2	1187	G	P-O3'-C3'	-17.49	93.96	120.20
85	2	1169	G	O3'-P-O5'	16.91	129.37	104.00
85	2	1206	G	O3'-P-O5'	-16.06	79.91	104.00
85	2	1403	U	P-O5'-C5'	16.01	144.92	120.90
85	2	1206	G	C2'-C3'-O3'	15.88	133.32	109.50
85	2	1381	G	O3'-P-O5'	15.71	127.56	104.00
85	2	1404	C	C4'-C3'-O3'	15.66	136.49	113.00
85	2	1455	U	P-O5'-C5'	15.63	144.35	120.90
40	AP	670	ALA	CB-CA-C	-15.52	98.70	116.54
85	2	1388	A	P-O3'-C3'	-15.49	96.96	120.20
85	2	1445	U	P-O3'-C3'	-15.49	96.96	120.20
85	2	1189	C	O5'-C5'-C4'	15.28	134.62	111.70
85	2	1451	G	OP1-P-O3'	-15.17	62.50	108.00
85	2	1379	U	P-O3'-C3'	15.16	142.94	120.20
85	2	1406	G	O3'-P-O5'	-14.98	81.53	104.00
85	2	1400	C	P-O3'-C3'	14.92	142.58	120.20
85	2	1202	C	P-O3'-C3'	14.86	142.50	120.20
85	2	1382	C	O3'-P-O5'	-14.86	81.71	104.00
85	2	1393	G	OP1-P-O3'	14.58	151.75	108.00
85	2	1437	A	O3'-P-O5'	-14.51	82.24	104.00
85	2	1445	U	OP1-P-O3'	14.45	151.36	108.00
85	2	234	A	OP1-P-OP2	-14.18	77.08	119.60
85	2	1186	A	P-O3'-C3'	-13.63	99.76	120.20
85	2	1393	G	O3'-P-O5'	-13.55	83.67	104.00
85	2	233	A	O3'-P-O5'	-13.37	83.94	104.00
85	2	1449	A	O3'-P-O5'	13.35	124.02	104.00
85	2	1459	A	C2'-C3'-O3'	12.97	128.95	109.50
85	2	1410	A	C4'-C3'-O3'	12.93	132.40	113.00
85	2	1450	C	O3'-P-O5'	12.75	123.12	104.00
85	2	1165	C	C5'-C4'-O4'	12.60	127.99	109.10
85	2	1439	U	O3'-P-O5'	-12.43	85.36	104.00
85	2	1204	A	O5'-C5'-C4'	12.20	129.99	111.70
85	2	1205	G	O5'-C5'-C4'	-12.18	93.43	111.70
85	2	1391	A	OP1-P-O3'	12.17	144.51	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	2	1409	G	O4'-C4'-C3'	12.15	116.15	104.00
51	Br	179	GLY	N-CA-C	-12.08	98.23	112.73
85	2	1203	U	O5'-C5'-C4'	12.05	129.78	111.70
85	2	1186	A	O3'-P-O5'	-11.87	86.19	104.00
85	2	1205	G	P-O3'-C3'	-11.70	102.65	120.20
85	2	1170	A	O3'-P-O5'	11.65	121.47	104.00
44	3	2	A	C1'-C2'-O2'	11.60	129.20	111.80
85	2	1390	A	P-O3'-C3'	-11.56	102.85	120.20
85	2	1204	A	P-O5'-C5'	11.55	138.22	120.90
85	2	1380	G	O5'-C5'-C4'	11.43	128.84	111.70
85	2	1409	G	C3'-C2'-O2'	-11.42	93.58	110.70
85	2	1409	G	N9-C1'-C2'	11.41	129.12	112.00
85	2	1454	C	O3'-P-O5'	-11.25	87.12	104.00
40	AP	636	ALA	N-CA-C	-11.22	100.08	113.88
85	2	1457	C	OP1-P-O3'	11.05	141.14	108.00
85	2	1187	G	OP2-P-O3'	10.96	140.89	108.00
85	2	924	C	C1'-C2'-O2'	-10.95	91.97	108.40
85	2	1168	G	P-O3'-C3'	10.92	136.58	120.20
85	2	1410	A	C2'-C3'-O3'	-10.92	97.32	113.70
85	2	1429	A	O3'-P-O5'	10.85	120.28	104.00
85	2	1391	A	OP2-P-O3'	-10.84	75.47	108.00
85	2	924	C	C2'-C3'-O3'	-10.82	97.48	113.70
85	2	1399	G	O3'-P-O5'	10.81	120.22	104.00
85	2	1408	C	O3'-P-O5'	-10.64	88.04	104.00
60	Ba	181	SER	N-CA-C	10.56	133.29	110.80
85	2	1445	U	OP2-P-O3'	-10.51	76.47	108.00
86	Az	92	PRO	CA-C-N	10.39	131.03	119.92
86	Az	92	PRO	C-N-CA	10.39	131.03	119.92
85	2	1206	G	P-O3'-C3'	10.30	135.65	120.20
85	2	1179	A	O3'-P-O5'	10.27	119.40	104.00
85	2	1206	G	P-O5'-C5'	10.21	136.22	120.90
85	2	1402	U	P-O3'-C3'	10.14	135.41	120.20
85	2	1461	A	C2'-C3'-O3'	9.99	124.49	109.50
85	2	1442	G	P-O3'-C3'	-9.92	105.32	120.20
85	2	1393	G	OP2-P-O3'	-9.79	78.64	108.00
85	2	234	A	O5'-P-OP2	-9.59	79.25	108.00
85	2	1187	G	OP1-P-O3'	-9.56	79.31	108.00
85	2	1407	G	P-O3'-C3'	-9.56	105.86	120.20
85	2	1430	C	O3'-P-O5'	-9.52	89.73	104.00
85	2	1407	G	O3'-P-O5'	-9.44	89.84	104.00
85	2	1457	C	OP2-P-O3'	-9.44	79.68	108.00
85	2	1382	C	OP1-P-O3'	9.27	135.80	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	2	1203	U	P-O3'-C3'	9.26	134.09	120.20
85	2	1440	G	P-O3'-C3'	9.19	133.98	120.20
85	2	1437	A	P-O3'-C3'	-9.11	106.53	120.20
87	Ah	22	HIS	CB-CG-CD2	-9.10	119.36	131.20
85	2	1186	A	OP2-P-O3'	9.08	135.24	108.00
85	2	1206	G	OP1-P-O3'	9.05	135.16	108.00
85	2	1438	G	O5'-C5'-C4'	-8.90	98.35	111.70
85	2	1165	C	O3'-P-O5'	-8.88	90.68	104.00
85	2	1167	A	P-O3'-C3'	8.87	133.50	120.20
85	2	233	A	OP1-P-O3'	-8.85	81.45	108.00
85	2	1167	A	O3'-P-O5'	8.77	117.16	104.00
85	2	1403	U	P-O3'-C3'	8.71	133.26	120.20
85	2	1409	G	C5'-C4'-O4'	8.70	122.84	109.80
85	2	1178	G	P-O3'-C3'	8.66	133.20	120.20
85	2	1403	U	O3'-P-O5'	-8.42	91.38	104.00
87	Ah	91	PRO	CB-CA-C	8.41	125.44	111.56
85	2	1439	U	P-O3'-C3'	8.41	132.81	120.20
85	2	1410	A	C1'-C2'-O2'	8.38	120.97	108.40
85	2	1188	A	P-O3'-C3'	8.31	132.66	120.20
85	2	1176	G	O3'-P-O5'	8.29	116.44	104.00
51	Br	139	ASP	N-CA-C	-8.28	101.50	112.75
85	2	1378	U	OP2-P-O3'	-8.18	83.46	108.00
80	BH	64	PRO	N-CA-CB	8.16	110.13	101.88
85	2	1208	C	P-O5'-C5'	8.11	133.06	120.90
85	2	1206	G	C4'-C3'-O3'	8.10	121.55	109.40
85	2	1208	C	O3'-P-O5'	-8.07	91.89	104.00
85	2	1439	U	OP2-P-O3'	8.05	132.14	108.00
85	2	1378	U	OP1-P-O3'	8.03	132.07	108.00
44	3	3	A	C2'-C3'-O3'	-8.01	101.69	113.70
86	Az	54	ASN	N-CA-C	8.00	119.69	110.97
85	2	234	A	O5'-P-OP1	7.96	131.90	108.00
85	2	1379	U	C5'-C4'-C3'	7.96	127.94	116.00
85	2	1408	C	C2'-C3'-O3'	7.94	121.41	109.50
85	2	1166	A	O3'-P-O5'	7.93	115.90	104.00
85	2	1169	G	OP2-P-O3'	-7.91	84.27	108.00
85	2	1411	G	C1'-C2'-O2'	7.89	123.64	111.80
85	2	233	A	OP2-P-O3'	7.84	131.53	108.00
60	Ba	182	VAL	N-CA-CB	7.81	122.60	111.90
88	BK	86	ALA	N-CA-C	-7.77	102.81	111.28
85	2	1431	G	O3'-P-O5'	7.74	115.61	104.00
57	BG	206	PRO	N-CA-CB	7.64	110.20	102.17
57	BG	175	PRO	N-CA-CB	7.52	110.48	103.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	BG	278	PRO	N-CA-CB	7.44	111.06	103.25
85	2	1431	G	P-O3'-C3'	7.42	131.34	120.20
85	2	1205	G	OP2-P-O3'	7.39	130.17	108.00
85	2	1438	G	O3'-P-O5'	7.38	115.06	104.00
85	2	1202	C	O3'-P-O5'	7.36	115.03	104.00
80	BH	184	PRO	N-CA-CB	7.31	110.53	103.51
51	Br	195	LYS	CB-CA-C	7.30	121.84	109.80
85	2	1402	U	O3'-P-O5'	-7.27	93.09	104.00
85	2	1410	A	O4'-C4'-C3'	7.27	111.27	104.00
51	Br	141	PHE	N-CA-C	7.19	119.12	111.28
85	2	1404	C	OP1-P-O3'	-7.17	86.50	108.00
44	3	3	A	C1'-C2'-O2'	-7.16	97.65	108.40
85	2	1411	G	C2'-C3'-O3'	-7.16	98.76	109.50
57	BG	136	PRO	N-CA-CB	7.13	110.00	103.08
85	2	1165	C	C5'-C4'-C3'	7.05	125.78	115.20
85	2	1205	G	OP1-P-O3'	-7.05	86.86	108.00
85	2	924	C	N1-C1'-C2'	-7.00	101.50	112.00
85	2	1386	G	O3'-P-O5'	-6.93	93.60	104.00
39	AO	459	GLY	CA-C-N	6.91	134.13	121.70
39	AO	459	GLY	C-N-CA	6.91	134.13	121.70
85	2	1437	A	OP1-P-O3'	6.89	128.66	108.00
85	2	1204	A	OP2-P-O3'	-6.88	87.36	108.00
85	2	1403	U	O5'-P-OP1	6.83	128.47	108.00
85	2	1430	C	OP1-P-O3'	6.82	128.47	108.00
57	BG	241	PRO	N-CA-CB	6.79	110.38	103.25
13	Am	39	PRO	N-CA-C	-6.78	99.66	112.33
85	2	1409	G	C1'-C2'-O2'	-6.78	98.24	108.40
80	BH	165	PRO	N-CA-CB	6.75	110.34	103.25
57	BG	204	PRO	N-CA-CB	6.74	110.22	102.88
51	Br	160	SER	N-CA-C	-6.71	103.89	111.07
57	BG	311	PRO	N-CA-CB	6.69	110.28	103.25
85	2	1438	G	P-O3'-C3'	6.68	130.23	120.20
86	Az	18	SER	N-CA-C	6.66	120.43	111.24
85	2	1407	G	O5'-C5'-C4'	6.58	121.57	111.70
51	Br	149	LYS	N-CA-C	-6.56	105.02	113.16
86	Az	55	ASN	N-CA-C	6.53	120.57	112.47
57	BG	137	PRO	N-CA-CB	6.50	110.08	103.25
85	2	1406	G	O5'-C5'-C4'	6.49	121.44	111.70
85	2	1177	U	OP1-P-O3'	-6.49	88.54	108.00
85	2	1440	G	OP1-P-O3'	6.46	127.39	108.00
86	Az	57	SER	N-CA-C	-6.46	97.04	110.80
85	2	1410	A	C4-N9-C1'	-6.46	106.93	126.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	2	922	G	C2'-C3'-O3'	-6.44	104.04	113.70
85	2	1405	A	O3'-P-O5'	-6.44	94.35	104.00
51	Br	161	ARG	NE-CZ-NH1	6.42	127.92	121.50
85	2	1405	A	O5'-C5'-C4'	6.39	121.29	111.70
85	2	1422	G	OP2-P-O3'	-6.39	88.81	108.00
80	BH	150	PRO	N-CA-CB	6.33	109.90	103.25
87	Ah	91	PRO	CA-N-CD	-6.33	103.14	112.00
88	BK	83	ALA	N-CA-C	-6.31	104.40	111.28
1	Aa	84	ASN	CB-CA-C	-6.30	97.89	110.42
89	Bk	11	GLY	N-CA-C	6.29	120.28	112.73
88	BK	26	ALA	N-CA-C	-6.29	104.43	111.28
85	2	1380	G	O3'-P-O5'	-6.28	94.58	104.00
85	2	1187	G	O3'-P-O5'	-6.28	94.59	104.00
85	2	1410	A	C8-N9-C1'	6.27	146.50	127.70
88	BK	58	ALA	N-CA-C	-6.23	104.48	111.28
85	2	1391	A	O3'-P-O5'	-6.21	94.69	104.00
86	Az	71	VAL	N-CA-C	6.19	116.84	108.17
80	BH	61	PRO	N-CA-CB	6.17	109.72	103.25
88	BK	199	ALA	N-CA-C	-6.16	104.56	111.28
85	2	1457	C	O3'-P-O5'	-6.15	94.77	104.00
85	2	1177	U	OP2-P-O3'	6.12	126.37	108.00
80	BH	27	PRO	N-CA-CB	6.11	110.05	103.33
85	2	924	C	C4'-C3'-O3'	6.10	122.15	113.00
25	Ay	57	GLY	N-CA-C	6.09	122.89	111.80
85	2	1188	A	O3'-P-O5'	-6.09	94.86	104.00
85	2	1204	A	O3'-P-O5'	6.08	113.12	104.00
87	Ah	22	HIS	CA-CB-CG	6.06	119.86	113.80
85	2	1795	A	C2'-C3'-O3'	-6.04	104.64	113.70
57	BG	65	PRO	N-CA-CB	6.01	109.95	103.33
85	2	1410	A	C3'-C2'-C1'	5.99	107.29	101.30
87	Ah	67	THR	CB-CA-C	5.89	122.13	110.42
85	2	1739	C	C1'-C2'-O2'	-5.88	99.58	108.40
88	BK	196	ALA	N-CA-C	-5.86	104.89	111.28
88	BK	40	ALA	N-CA-C	-5.80	104.38	112.45
85	2	1738	C	C3'-C2'-O2'	5.79	119.39	110.70
85	2	1387	G	P-O3'-C3'	5.79	128.88	120.20
85	2	1428	G	OP1-P-O3'	-5.74	90.78	108.00
88	BK	201	ALA	N-CA-C	-5.73	104.95	111.14
88	BK	133	ALA	N-CA-C	-5.71	105.05	111.28
25	Ay	53	PRO	N-CA-C	-5.71	100.71	112.47
85	2	1176	G	OP2-P-O3'	-5.70	90.90	108.00
43	1	2931	G	P-O3'-C3'	5.69	128.74	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	2	1406	G	OP2-P-O3'	5.69	125.07	108.00
85	2	1165	C	OP2-P-O3'	5.69	125.06	108.00
85	2	1738	C	C4'-C3'-O3'	-5.65	104.53	113.00
89	Bk	12	ARG	N-CA-C	-5.65	103.61	111.52
21	Au	97	LEU	CA-C-N	-5.62	111.14	122.55
21	Au	97	LEU	C-N-CA	-5.62	111.14	122.55
85	2	1404	C	OP2-P-O3'	5.62	124.86	108.00
25	Ay	106	ARG	N-CA-C	-5.60	106.27	114.39
51	Br	194	HIS	CB-CA-C	5.58	121.52	110.42
85	2	1168	G	O5'-C5'-C4'	-5.57	103.35	111.70
85	2	1166	A	OP2-P-O3'	-5.54	91.39	108.00
85	2	1400	C	OP1-P-O3'	5.53	124.59	108.00
85	2	1438	G	OP2-P-O3'	-5.53	91.42	108.00
85	2	1403	U	C2'-C3'-O3'	5.52	117.78	109.50
85	2	1387	G	OP2-P-O3'	-5.51	91.46	108.00
40	AP	672	ALA	CB-CA-C	-5.51	110.24	116.63
89	Bk	69	GLY	CA-C-O	-5.46	117.86	122.29
51	Br	140	PRO	CB-CA-C	5.46	118.07	111.46
86	Az	43	LEU	N-CA-C	-5.41	101.64	109.59
85	2	1393	G	P-O3'-C3'	-5.35	112.17	120.20
85	2	1411	G	C3'-C2'-O2'	5.33	122.59	114.60
51	Br	202	THR	CB-CA-C	5.30	119.80	110.36
85	2	1409	G	O5'-C5'-C4'	5.30	119.44	111.50
35	AK	70	TYR	N-CA-C	-5.29	106.89	113.19
89	Bk	23	ALA	N-CA-C	-5.29	103.15	110.35
85	2	1220	G	N9-C1'-C2'	-5.27	106.09	114.00
85	2	1411	G	C4'-C3'-O3'	-5.27	101.50	109.40
87	Ah	22	HIS	ND1-CG-CD2	5.25	111.35	106.10
86	Az	73	THR	N-CA-C	5.24	117.89	110.50
85	2	1398	G	N9-C1'-C2'	-5.24	106.14	114.00
85	2	1399	G	OP2-P-O3'	-5.24	92.29	108.00
89	Bk	116	LYS	N-CA-C	-5.24	103.48	110.55
85	2	1384	G	N9-C1'-C2'	-5.23	106.16	114.00
85	2	1205	G	N9-C1'-C2'	-5.22	106.17	114.00
85	2	1214	G	N9-C1'-C2'	-5.22	106.17	114.00
85	2	1450	C	N1-C1'-C2'	-5.22	106.17	114.00
85	2	1397	C	N1-C1'-C2'	-5.21	106.19	114.00
85	2	1206	G	N9-C1'-C2'	-5.20	106.19	114.00
85	2	1433	A	OP2-P-O3'	-5.20	92.40	108.00
85	2	1381	G	O5'-C5'-C4'	-5.19	103.91	111.70
85	2	1217	G	N9-C1'-C2'	-5.19	106.22	114.00
89	Bk	26	LYS	N-CA-C	-5.18	106.80	113.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	2	1433	A	OP1-P-O3'	5.18	123.54	108.00
86	Az	56	SER	N-CA-C	5.18	118.73	111.90
60	Ba	181	SER	CB-CA-C	-5.13	100.20	110.42
85	2	922	G	C4'-C3'-O3'	5.13	120.70	113.00
86	Az	53	SER	N-CA-C	-5.13	101.60	109.76
85	2	1177	U	O4'-C1'-N1	5.13	115.89	108.20
85	2	1177	U	P-O3'-C3'	5.12	127.88	120.20
85	2	1408	C	P-O3'-C3'	5.11	127.87	120.20
85	2	1410	A	C5'-C4'-C3'	5.09	123.64	116.00
51	Br	141	PHE	CB-CA-C	-5.09	102.35	110.79
85	2	1377	G	O4'-C1'-N9	5.09	115.83	108.20
87	Ah	99	ASN	CA-CB-CG	-5.09	107.51	112.60
85	2	1202	C	OP2-P-O3'	-5.07	92.78	108.00
85	2	1434	G	O4'-C1'-N9	5.07	115.81	108.20
51	Br	162	ARG	CB-CA-C	5.07	120.50	110.42
85	2	1407	G	O4'-C1'-N9	5.06	115.79	108.20
85	2	1427	G	O4'-C1'-N9	5.06	115.79	108.20
85	2	1424	G	O4'-C1'-N9	5.06	115.78	108.20
85	2	1422	G	O4'-C1'-N9	5.05	115.78	108.20
85	2	1187	G	O4'-C1'-N9	5.04	115.76	108.20
85	2	1369	G	O4'-C1'-N9	5.04	115.75	108.20
85	2	1175	A	O4'-C1'-N9	5.03	115.75	108.20
85	2	1431	G	O4'-C1'-N9	5.03	115.75	108.20
85	2	1193	G	O4'-C1'-N9	5.03	115.75	108.20
85	2	1440	G	O4'-C1'-N9	5.03	115.74	108.20
3	Ac	223	GLN	N-CA-C	-5.02	100.10	110.80
85	2	1438	G	O4'-C1'-N9	5.02	115.73	108.20
85	2	1380	G	O4'-C1'-N9	5.02	115.73	108.20
85	2	1442	G	O4'-C1'-N9	5.02	115.73	108.20
85	2	1169	G	O4'-C1'-N9	5.01	115.72	108.20
85	2	1179	A	O4'-C1'-N9	5.01	115.72	108.20
85	2	1381	G	O4'-C1'-N9	5.01	115.72	108.20
85	2	1406	G	O4'-C1'-N9	5.01	115.71	108.20
87	Ah	58	THR	CB-CA-C	-5.01	102.48	110.79
85	2	1375	G	O4'-C1'-N9	5.00	115.71	108.20
85	2	1172	C	O4'-C1'-N1	5.00	115.71	108.20
85	2	1183	G	O4'-C1'-N9	5.00	115.70	108.20

All (5) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
85	2	1165	C	C4'

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Mol	Chain	Res	Type	Atom
85	2	1206	G	C3'
85	2	1404	C	C3'
85	2	1409	G	C4'
85	2	1410	A	C2'

All (58) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
85	2	1183	G	Sidechain
85	2	1187	G	Sidechain
85	2	1193	G	Sidechain
85	2	1205	G	Sidechain
85	2	1206	G	Sidechain
85	2	1214	G	Sidechain
85	2	1217	G	Sidechain
85	2	1220	G	Sidechain
85	2	1369	G	Sidechain
85	2	1372	G	Sidechain
85	2	1375	G	Sidechain
85	2	1377	G	Sidechain
85	2	1380	G	Sidechain
85	2	1381	G	Sidechain
85	2	1398	G	Sidechain
85	2	1406	G	Sidechain
85	2	1407	G	Sidechain
85	2	1409	G	Sidechain
85	2	1422	G	Sidechain
85	2	1424	G	Sidechain
85	2	1426	G	Sidechain
85	2	1427	G	Sidechain
85	2	1428	G	Sidechain
85	2	1431	G	Sidechain
85	2	1434	G	Sidechain
85	2	1438	G	Sidechain
85	2	1440	G	Sidechain
85	2	1441	G	Sidechain
85	2	1442	G	Sidechain
85	2	924	C	Sidechain
26	AA	57	ARG	Peptide
27	AB	124	CYS	Peptide
33	AI	78	LYS	Peptide
37	AM	75	ASN	Peptide

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Mol	Chain	Res	Type	Group
37	AM	83	ALA	Peptide
39	AO	294	ILE	Peptide
39	AO	332	TYR	Peptide
40	AP	246	ALA	Peptide
40	AP	605	ALA	Peptide
40	AP	635	ALA	Peptide
41	AQ	444	GLN	Peptide
87	Ah	22	HIS	Sidechain
87	Ah	29	TYR	Sidechain
18	Ar	164	LEU	Peptide
18	Ar	191	ARG	Peptide
20	At	102	LYS	Peptide
21	Au	132	THR	Peptide
24	Ax	57	ASN	Peptide
79	BJ	192	ALA	Peptide
61	Bc	316	THR	Peptide
62	Bd	356	LYS	Peptide
62	Bd	448	PRO	Peptide
48	Bi	171	VAL	Peptide
65	Bj	284	ASN	Peptide
49	Bl	120	HIS	Peptide
51	Br	144	ALA	Mainchain
51	Br	174	VAL	Mainchain
52	Bw	464	LEU	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Aa	753	0	794	53	0
2	Ab	1144	0	1212	77	0
3	Ac	1674	0	1722	121	0
4	AD	506	0	554	28	0
5	Ad	1649	0	1720	77	0
6	Ae	1171	0	1171	111	0
7	Af	797	0	827	52	0
8	Ag	406	0	434	12	0
9	Ai	1056	0	1088	68	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
10	Aj	1267	0	1304	97	0
11	Ak	962	0	1038	56	0
12	Al	1407	0	1521	82	0
13	Am	1111	0	1151	50	0
14	An	1139	0	1178	64	0
15	Ao	835	0	886	47	0
16	Ap	935	0	1029	63	0
17	Aq	888	0	924	71	0
18	Ar	1106	0	1157	150	0
19	As	937	0	1003	57	0
20	At	840	0	907	49	0
21	Au	1112	0	1167	120	0
22	Av	1523	0	1606	127	0
23	Aw	606	0	625	34	0
24	Ax	809	0	813	40	0
25	Ay	943	0	955	86	0
26	AA	299	0	294	57	0
27	AB	319	0	349	18	0
28	AC	432	0	454	30	0
29	AE	297	0	323	20	0
30	AF	663	0	683	67	0
31	AG	485	0	500	37	0
32	AH	879	0	916	56	0
33	AI	1714	0	1688	169	0
34	AJ	632	0	645	95	0
35	AK	732	0	770	44	0
36	AL	400	0	417	56	0
37	AM	651	0	690	28	0
38	AN	664	0	722	27	0
39	AO	3595	0	3655	280	0
40	AP	3345	0	3344	110	0
41	AQ	2900	0	2949	176	0
42	AR	145	0	147	1	0
43	1	60842	0	30643	3474	0
44	3	2513	0	1274	176	0
45	Bb	2293	0	2313	122	0
46	Bf	1106	0	1176	63	0
47	Bh	975	0	1001	86	0
48	Bi	857	0	911	89	0
49	Bl	729	0	737	77	0
50	Bm	794	0	835	74	0
51	Br	685	0	715	153	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
52	Bw	2722	0	2691	198	0
53	Bx	641	0	670	35	0
54	Bz	1010	0	1056	92	0
55	BA	293	0	307	15	0
56	Bt	239	0	270	19	0
57	BG	1795	0	845	13	0
58	BP	455	0	451	2	0
59	BF	615	0	617	8	0
60	Ba	1563	0	1578	86	0
61	Bc	2772	0	2932	223	0
62	Bd	1730	0	1810	146	0
63	Be	819	0	869	62	0
64	Bg	1042	0	1069	71	0
65	Bj	955	0	996	85	0
66	Bn	814	0	849	51	0
67	Bo	780	0	805	62	0
68	Bp	636	0	671	54	0
69	Bq	492	0	522	21	0
70	Bs	539	0	592	16	0
71	Bu	800	0	833	41	0
72	Bv	1278	0	1315	84	0
73	By	619	0	629	48	0
74	BB	203	0	246	5	0
75	BC	544	0	590	41	0
76	BD	1768	0	1737	143	0
77	BE	2697	0	2691	157	0
78	BI	1330	0	1332	34	0
79	BJ	1745	0	1747	34	0
80	BH	1023	0	478	3	0
81	BN	345	0	347	11	0
82	BM	395	0	397	5	0
83	BO	150	0	152	1	0
84	BL	320	0	322	9	0
85	2	37379	0	18835	2593	0
86	Az	660	0	684	198	0
87	Ah	1098	0	1133	75	0
88	BK	1580	0	1579	136	0
89	Bk	968	0	1019	119	0
All	All	189336	0	140603	11005	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 34.

All (11005) 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)
51:Br:146:LEU:HD13	51:Br:150:LYS:CD	1.18	1.62
87:Ah:121:TYR:CE1	87:Ah:126:TYR:CD1	1.84	1.62
18:Ar:193:ILE:HD13	86:Az:90:LEU:CB	1.20	1.61
18:Ar:193:ILE:CG2	86:Az:90:LEU:HD22	1.33	1.55
87:Ah:121:TYR:CD1	87:Ah:126:TYR:HD1	1.24	1.54
18:Ar:193:ILE:CD1	86:Az:90:LEU:HB2	1.32	1.53
89:Bk:83:ARG:HH21	89:Bk:96:HIS:CD2	1.23	1.52
85:2:1181:G:O2'	85:2:1182:U:P	1.10	1.48
85:2:1445:U:C2	85:2:1446:A:N7	1.80	1.48
89:Bk:83:ARG:NH2	89:Bk:96:HIS:CD2	1.76	1.48
88:BK:219:ALA:CB	88:BK:254:ALA:HB2	1.41	1.47
85:2:1385:C:O3'	85:2:1386:G:P	1.07	1.46
85:2:1379:U:O3'	85:2:1380:G:P	1.08	1.46
62:Bd:367:LYS:HE3	62:Bd:380:TYR:CD2	1.47	1.45
51:Br:166:LEU:CD1	51:Br:169:TYR:HB2	1.46	1.44
85:2:1402:U:O3'	85:2:1403:U:P	1.04	1.44
85:2:1445:U:O2	85:2:1446:A:C5	1.73	1.41
43:1:1195:U:N3	87:Ah:62:LYS:NZ	1.64	1.40
34:AJ:29:CYS:CB	34:AJ:79:ARG:HD3	1.35	1.40
26:AA:48:ILE:CG2	30:AF:224:THR:HA	1.51	1.39
34:AJ:68:PHE:CD2	34:AJ:78:ILE:HA	1.57	1.39
89:Bk:83:ARG:NH2	89:Bk:96:HIS:NE2	1.70	1.38
34:AJ:29:CYS:SG	34:AJ:79:ARG:CD	2.11	1.37
34:AJ:29:CYS:HB2	34:AJ:79:ARG:CD	1.44	1.37
34:AJ:84:ASP:OD1	87:Ah:108:ASP:CB	1.73	1.37
51:Br:146:LEU:CD1	51:Br:150:LYS:CD	2.01	1.36
85:2:1178:G:N2	85:2:1393:G:H22	1.22	1.36
85:2:1178:G:H21	85:2:1393:G:N2	1.23	1.35
61:Bc:32:ARG:HH12	61:Bc:118:GLU:CG	1.38	1.34
88:BK:219:ALA:CB	88:BK:254:ALA:CB	2.04	1.34
85:2:1202:C:O2'	85:2:1203:U:H5'	1.23	1.33
85:2:1391:A:O3'	85:2:1392:A:P	0.95	1.33
34:AJ:29:CYS:SG	34:AJ:79:ARG:CG	2.18	1.32
85:2:1170:A:N6	85:2:1401:A:N6	1.79	1.31
51:Br:146:LEU:HD11	51:Br:150:LYS:NZ	1.45	1.31
3:Ac:239:ARG:CD	43:1:3096:G:OP1	1.78	1.30
6:Ae:133:THR:OG1	6:Ae:155:PHE:CE2	1.74	1.30
85:2:1170:A:N6	85:2:1401:A:H61	1.24	1.30
85:2:1445:U:C2	85:2:1446:A:C5	2.16	1.30
54:Bz:311:ARG:HG2	54:Bz:355:GLU:O	1.23	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AJ:29:CYS:SG	34:AJ:79:ARG:HG3	1.70	1.29
85:2:1429:A:O2'	85:2:1430:C:H4'	1.27	1.29
85:2:1429:A:C2'	85:2:1430:C:H5''	1.60	1.29
26:AA:48:ILE:CG2	30:AF:223:ALA:O	1.80	1.29
34:AJ:64:VAL:HG21	34:AJ:85:LYS:CD	1.63	1.29
34:AJ:84:ASP:OD1	87:Ah:108:ASP:HB3	1.19	1.28
85:2:1407:G:OP1	88:BK:16:ALA:HB1	1.32	1.27
65:Bj:251:LYS:NZ	65:Bj:285:SER:HB3	1.46	1.27
6:Ae:133:THR:OG1	6:Ae:155:PHE:CD2	1.87	1.27
26:AA:48:ILE:HG22	30:AF:224:THR:CA	1.65	1.27
34:AJ:29:CYS:CB	34:AJ:79:ARG:CD	1.99	1.27
85:2:1385:C:C3'	85:2:1386:G:P	2.23	1.26
9:Ai:31:PRO:HG3	43:1:1210:G:O6	1.12	1.26
85:2:1402:U:HO3'	85:2:1403:U:P	0.92	1.26
43:1:1196:G:OP2	87:Ah:56:LYS:NZ	1.67	1.25
87:Ah:121:TYR:CE1	87:Ah:126:TYR:HD1	1.31	1.25
89:Bk:68:PRO:HG3	89:Bk:96:HIS:CE1	1.71	1.25
18:Ar:185:SER:O	86:Az:98:HIS:CE1	1.75	1.25
51:Br:166:LEU:HD11	51:Br:169:TYR:CB	1.66	1.25
85:2:1391:A:O3'	85:2:1392:A:OP2	1.53	1.25
5:Ad:136:HIS:CD2	5:Ad:179:PRO:HB2	1.73	1.24
18:Ar:189:ILE:HG23	86:Az:94:LEU:CB	1.67	1.23
43:1:2408:A:N6	43:1:2488:G:H1	1.35	1.23
85:2:1181:G:C2'	85:2:1182:U:P	2.26	1.22
9:Ai:18:ARG:NE	43:1:1207:G:O2'	1.72	1.22
88:BK:268:ALA:HB1	88:BK:277:ALA:CB	1.67	1.22
22:Av:178:ARG:CD	43:1:1018:G:C5'	2.18	1.22
22:Av:178:ARG:HD2	43:1:1018:G:C5'	1.69	1.22
85:2:1789:G:C6	85:2:1859:A:N6	2.08	1.21
89:Bk:66:TYR:CE1	89:Bk:87:VAL:HG23	1.76	1.21
3:Ac:239:ARG:HD2	43:1:3096:G:P	1.82	1.20
43:1:995:G:H4'	86:Az:61:MET:CA	1.71	1.20
18:Ar:193:ILE:HB	86:Az:90:LEU:CD1	1.72	1.20
26:AA:48:ILE:HG21	30:AF:223:ALA:O	1.05	1.20
51:Br:191:LYS:CD	51:Br:198:GLU:OE1	1.89	1.19
85:2:1402:U:C3'	85:2:1403:U:P	2.29	1.19
85:2:1449:A:O2'	85:2:1450:C:OP2	1.58	1.19
21:Au:84:PRO:CG	21:Au:116:ILE:HD13	1.71	1.19
88:BK:268:ALA:HB1	88:BK:277:ALA:HB1	1.21	1.19
85:2:1390:A:O3'	85:2:1391:A:P	1.99	1.19
33:AI:100:ARG:CD	33:AI:209:VAL:HG13	1.73	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1190:C:N4	85:2:1204:A:C2	2.11	1.19
88:BK:182:ALA:CB	88:BK:217:ALA:HB1	1.72	1.18
33:AI:100:ARG:NE	33:AI:209:VAL:HG13	1.59	1.18
51:Br:191:LYS:NZ	51:Br:198:GLU:OE2	1.76	1.18
65:Bj:248:ARG:O	65:Bj:251:LYS:HG2	1.42	1.18
85:2:1379:U:O2'	85:2:1380:G:C5'	1.91	1.17
88:BK:219:ALA:HB1	88:BK:254:ALA:CB	1.66	1.17
85:2:1402:U:O3'	85:2:1403:U:O5'	1.60	1.17
40:AP:670:ALA:HA	43:1:496:C:OP2	1.44	1.17
43:1:1242:G:H21	43:1:1247:A:N6	1.43	1.17
51:Br:191:LYS:HZ2	51:Br:198:GLU:CD	1.51	1.17
85:2:1445:U:H1'	85:2:1446:A:C8	1.80	1.17
85:2:1391:A:C3'	85:2:1392:A:P	2.34	1.16
85:2:1451:G:O3'	85:2:1452:C:P	2.03	1.16
18:Ar:193:ILE:HD13	86:Az:90:LEU:CA	1.74	1.16
34:Aj:64:VAL:CG2	34:Aj:85:LYS:HD2	1.75	1.16
88:BK:268:ALA:CB	88:BK:277:ALA:HB1	1.75	1.16
85:2:1445:U:O2'	85:2:1446:A:H8	1.23	1.16
85:2:550:C:O2'	89:Bk:26:LYS:O	1.62	1.15
88:BK:182:ALA:HB2	88:BK:217:ALA:HB1	1.21	1.15
85:2:1391:A:O2'	85:2:1392:A:C8	1.97	1.15
85:2:1424:G:C2	85:2:1456:G:N2	2.14	1.15
88:BK:219:ALA:HA	88:BK:254:ALA:HB1	1.15	1.15
13:Am:107:LYS:HE2	22:Av:178:ARG:HE	1.06	1.14
51:Br:191:LYS:HD2	51:Br:198:GLU:OE1	0.97	1.14
85:2:1178:G:N2	85:2:1393:G:H1	1.43	1.14
43:1:1242:G:N2	43:1:1247:A:H62	1.45	1.14
18:Ar:193:ILE:CB	86:Az:90:LEU:HD22	1.78	1.13
34:Aj:67:ALA:HA	34:Aj:82:ILE:HD11	1.26	1.13
85:2:1202:C:O2'	85:2:1203:U:C5'	1.96	1.13
88:BK:219:ALA:CA	88:BK:254:ALA:HB1	1.78	1.13
36:AL:70:ASN:HD21	86:Az:80:ARG:NH2	1.44	1.13
51:Br:146:LEU:HD13	51:Br:150:LYS:HD3	1.22	1.13
85:2:1379:U:O2'	85:2:1380:G:H5''	0.97	1.13
85:2:1445:U:O2	85:2:1446:A:C4	2.01	1.12
43:1:995:G:C4'	86:Az:61:MET:HA	1.77	1.12
33:AI:100:ARG:HD2	33:AI:209:VAL:CG1	1.80	1.12
36:AL:57:CYS:SG	86:Az:59:ARG:HD3	1.89	1.12
85:2:1165:C:O2'	85:2:1166:A:H5''	1.49	1.12
86:Az:41:MET:HE1	86:Az:62:ILE:HG12	1.32	1.12
87:Ah:121:TYR:CD1	87:Ah:126:TYR:CD1	2.16	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Ar:193:ILE:HB	86:Az:90:LEU:HD13	1.22	1.12
43:1:1255:G:O2'	87:Ah:79:MET:SD	2.05	1.12
5:Ad:136:HIS:HD2	5:Ad:179:PRO:HB2	0.99	1.11
54:Bz:311:ARG:CG	54:Bz:355:GLU:O	1.97	1.11
85:2:518:G:P	89:Bk:70:GLU:HG3	1.87	1.11
85:2:1429:A:O2'	85:2:1430:C:C4'	1.98	1.11
34:Aj:64:VAL:CG2	34:Aj:85:LYS:CD	2.29	1.11
85:2:1429:A:C2'	85:2:1430:C:C5'	2.28	1.11
85:2:1379:U:C3'	85:2:1380:G:P	2.38	1.10
87:Ah:121:TYR:CD1	87:Ah:126:TYR:HA	1.85	1.10
51:Br:161:ARG:HA	85:2:1669:C:H41	1.14	1.10
43:1:1256:G:OP1	87:Ah:56:LYS:HG3	1.49	1.10
18:Ar:193:ILE:CG2	86:Az:90:LEU:CD2	2.28	1.10
21:Au:47:VAL:HG23	21:Au:50:LYS:HB3	1.32	1.10
61:Bc:32:ARG:HH12	61:Bc:118:GLU:HG2	1.06	1.09
85:2:382:A:P	89:Bk:31:THR:HG22	1.93	1.09
18:Ar:189:ILE:CG2	86:Az:94:LEU:CB	2.30	1.09
61:Bc:113:ARG:HH11	61:Bc:119:THR:CG2	1.66	1.09
61:Bc:113:ARG:HD2	61:Bc:119:THR:HB	1.22	1.09
3:Ac:239:ARG:HD2	43:1:3096:G:OP1	1.41	1.08
85:2:1429:A:H2'	85:2:1430:C:H5''	1.25	1.08
89:Bk:66:TYR:CZ	89:Bk:87:VAL:HG23	1.87	1.08
22:Av:178:ARG:CD	43:1:1018:G:H5''	1.77	1.08
51:Br:146:LEU:CD1	51:Br:150:LYS:NZ	2.17	1.08
54:Bz:311:ARG:HD3	54:Bz:355:GLU:HA	1.36	1.08
61:Bc:113:ARG:HH11	61:Bc:119:THR:HG21	1.14	1.08
85:2:1445:U:C1'	85:2:1446:A:C8	2.37	1.08
34:Aj:64:VAL:HG21	34:Aj:85:LYS:HD3	1.12	1.08
51:Br:166:LEU:HD13	51:Br:169:TYR:HB2	1.35	1.08
86:Az:20:TYR:OH	86:Az:51:LEU:HD21	1.53	1.07
18:Ar:189:ILE:HG23	86:Az:94:LEU:HB2	1.12	1.07
85:2:518:G:OP1	89:Bk:70:GLU:HG3	1.54	1.07
85:2:1188:A:H1'	85:2:1382:C:N4	1.68	1.07
88:BK:80:ALA:HB1	88:BK:89:ALA:HA	1.33	1.07
51:Br:166:LEU:CD1	51:Br:169:TYR:CB	2.28	1.06
86:Az:20:TYR:OH	86:Az:51:LEU:CD2	0.83	1.06
88:BK:268:ALA:CB	88:BK:277:ALA:CB	2.31	1.06
18:Ar:193:ILE:CG1	86:Az:90:LEU:HB2	1.86	1.06
22:Av:178:ARG:HD2	43:1:1018:G:H5''	1.07	1.06
9:Ai:31:PRO:CG	43:1:1210:G:O6	2.03	1.06
18:Ar:189:ILE:CG2	86:Az:94:LEU:HB3	1.83	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:Bc:32:ARG:NH1	61:Bc:118:GLU:HG2	1.71	1.05
85:2:1425:U:C1'	85:2:1426:G:N7	2.07	1.05
85:2:1421:G:H22	85:2:1461:A:N6	1.53	1.05
33:AI:100:ARG:CD	33:AI:209:VAL:CG1	2.34	1.05
43:1:1255:G:H1'	87:Ah:79:MET:CE	1.84	1.05
88:BK:80:ALA:HB2	88:BK:92:ALA:HB2	1.34	1.05
34:AJ:64:VAL:HG13	34:AJ:85:LYS:C	1.82	1.05
43:1:2959:A:H62	43:1:2966:G:N2	1.53	1.05
87:Ah:32:LEU:HD11	87:Ah:109:ASN:OD1	1.55	1.05
87:Ah:32:LEU:HD21	87:Ah:109:ASN:HD21	1.17	1.05
87:Ah:121:TYR:HE1	87:Ah:126:TYR:CG	1.74	1.05
43:1:1530:G:H2'	43:1:1531:C:H4'	1.39	1.05
85:2:534:G:OP1	89:Bk:110:ARG:NH1	1.89	1.05
88:BK:219:ALA:HB2	88:BK:254:ALA:HB2	1.37	1.05
18:Ar:193:ILE:HG21	86:Az:90:LEU:HD22	1.05	1.04
85:2:1178:G:N2	85:2:1393:G:N2	1.87	1.04
85:2:1381:G:OP1	85:2:1381:G:C8	2.10	1.04
43:1:137:U:N3	43:1:147:G:N1	2.05	1.04
51:Br:146:LEU:CD1	51:Br:150:LYS:HD3	1.74	1.04
21:Au:84:PRO:HD2	21:Au:116:ILE:HD12	1.39	1.04
54:Bz:311:ARG:CD	54:Bz:355:GLU:HA	1.87	1.04
62:Bd:367:LYS:CE	62:Bd:380:TYR:CD2	2.39	1.04
43:1:1148:U:H3	43:1:1305:A:N6	1.54	1.03
85:2:1178:G:N2	85:2:1393:G:N1	2.04	1.03
43:1:995:G:O4'	86:Az:61:MET:HB2	1.54	1.03
85:2:1457:C:O2'	85:2:1458:C:C6	2.11	1.03
18:Ar:193:ILE:HG21	86:Az:90:LEU:CD2	1.88	1.03
86:Az:20:TYR:OH	86:Az:51:LEU:HD23	1.48	1.03
89:Bk:83:ARG:NH2	89:Bk:96:HIS:HD2	1.56	1.03
7:Af:3:ALA:O	34:AJ:48:ARG:NH2	1.92	1.02
18:Ar:187:THR:OG1	86:Az:96:VAL:HB	1.59	1.02
85:2:1450:C:O3'	85:2:1451:G:P	2.17	1.02
49:Bl:113:ASP:O	51:Br:191:LYS:NZ	1.91	1.02
65:Bj:201:LEU:HB2	65:Bj:204:ASN:O	1.57	1.02
85:2:1422:G:O2'	85:2:1423:U:OP2	1.77	1.02
33:AI:100:ARG:HD2	33:AI:209:VAL:HG13	1.35	1.02
61:Bc:32:ARG:NH1	61:Bc:118:GLU:CG	2.23	1.02
1:Aa:42:ARG:HB3	1:Aa:83:MET:HE2	1.40	1.01
2:Ab:62:SER:O	2:Ab:63:MET:HG3	1.61	1.01
6:Ae:133:THR:CB	6:Ae:155:PHE:CD2	2.42	1.01
50:Bm:109:TYR:O	50:Bm:113:LYS:HG3	1.58	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1255:G:C1'	87:Ah:79:MET:HE1	1.90	1.01
51:Br:166:LEU:HD11	51:Br:169:TYR:HB2	1.04	1.01
85:2:517:A:O2'	89:Bk:70:GLU:CD	1.98	1.01
6:Ae:137:GLU:CG	6:Ae:143:GLU:OE1	2.08	1.01
51:Br:191:LYS:HD2	51:Br:198:GLU:CD	1.85	1.01
18:Ar:118:GLU:OE2	18:Ar:123:VAL:HG22	1.58	1.00
22:Av:178:ARG:CD	43:1:1018:G:H5'	1.88	1.00
43:1:1255:G:H1'	87:Ah:79:MET:SD	2.00	1.00
43:1:521:G:H21	43:1:522:A:H5''	1.26	1.00
85:2:382:A:OP1	89:Bk:31:THR:HG22	1.61	1.00
85:2:1178:G:N2	85:2:1393:G:C2	2.29	1.00
21:Au:84:PRO:HG2	21:Au:116:ILE:HD13	1.00	1.00
65:Bj:251:LYS:HZ2	65:Bj:285:SER:HB3	0.86	1.00
65:Bj:233:LYS:NZ	85:2:686:G:N7	2.09	1.00
85:2:1424:G:C6	85:2:1456:G:N2	2.30	1.00
89:Bk:2:PRO:HD2	89:Bk:7:LEU:HD21	1.42	1.00
85:2:1429:A:O2'	85:2:1430:C:C5'	2.10	1.00
26:AA:48:ILE:CG2	30:AF:223:ALA:C	2.35	1.00
52:Bw:150:LEU:O	52:Bw:154:LEU:HB2	1.61	1.00
85:2:76:G:H1	85:2:165:A:H61	1.02	1.00
85:2:1178:G:C2	85:2:1179:A:C5	2.50	1.00
85:2:1445:U:C2	85:2:1446:A:C8	2.49	1.00
51:Br:146:LEU:CD1	51:Br:150:LYS:HZ2	1.74	0.99
85:2:1458:C:C4	85:2:1459:A:C6	2.49	0.99
51:Br:146:LEU:CD1	51:Br:150:LYS:HD2	1.75	0.99
64:Bg:104:THR:O	64:Bg:122:GLY:HA3	1.62	0.99
43:1:2959:A:N6	43:1:2966:G:H21	1.60	0.99
85:2:1406:G:O2'	85:2:1407:G:H5'	1.62	0.99
51:Br:146:LEU:HD11	51:Br:150:LYS:HZ2	0.85	0.99
85:2:1391:A:C3'	85:2:1392:A:OP2	2.11	0.99
85:2:1391:A:O2'	85:2:1392:A:H8	1.37	0.99
85:2:1423:U:O3'	85:2:1424:G:P	2.20	0.99
85:2:1181:G:HO2'	85:2:1182:U:P	1.24	0.98
6:Ae:137:GLU:HG3	6:Ae:143:GLU:OE1	1.62	0.98
77:BE:377:SER:HB3	77:BE:380:MET:HG3	1.43	0.98
85:2:428:G:N3	85:2:452:A:N6	2.10	0.98
85:2:1421:G:H22	85:2:1461:A:H61	1.02	0.98
26:AA:48:ILE:HG22	30:AF:224:THR:HA	1.03	0.98
51:Br:178:ASN:HB3	51:Br:182:HIS:HB3	1.41	0.98
85:2:1510:G:N1	85:2:1526:A:C2	2.32	0.98
26:AA:48:ILE:HG21	30:AF:223:ALA:C	1.86	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1424:G:N1	85:2:1456:G:N2	2.11	0.98
13:Am:107:LYS:HE2	22:Av:178:ARG:NE	1.78	0.98
43:1:1138:G:OP2	86:Az:28:PRO:HG3	1.63	0.98
61:Bc:113:ARG:CD	61:Bc:119:THR:HB	1.94	0.98
88:BK:215:ALA:HA	88:BK:230:ALA:HB1	1.46	0.98
89:Bk:83:ARG:CZ	89:Bk:96:HIS:CD2	2.47	0.98
34:Aj:84:ASP:OD1	87:Ah:108:ASP:O	1.81	0.98
62:Bd:367:LYS:HE3	62:Bd:380:TYR:HD2	1.16	0.98
34:Aj:68:PHE:HD2	34:Aj:78:ILE:HA	0.87	0.97
73:By:71:LYS:HD3	85:2:233:A:H4'	1.46	0.97
85:2:517:A:O2'	89:Bk:70:GLU:OE2	1.82	0.97
85:2:1706:A:C2	85:2:1714:G:N1	2.32	0.97
85:2:1706:A:H2	85:2:1714:G:N1	1.62	0.97
89:Bk:83:ARG:CZ	89:Bk:96:HIS:HD2	1.76	0.97
85:2:1434:G:H1	85:2:1446:A:N6	1.63	0.97
85:2:1773:U:H3	85:2:1872:G:H1	1.06	0.97
43:1:1105:G:N2	43:1:1108:A:OP1	1.98	0.97
36:AL:70:ASN:HD22	86:Az:80:ARG:CD	1.78	0.97
51:Br:166:LEU:HD12	51:Br:166:LEU:O	1.63	0.97
85:2:1113:U:H3	85:2:1502:G:H1	1.09	0.96
89:Bk:107:ILE:HD11	89:Bk:110:ARG:CD	1.94	0.96
18:Ar:193:ILE:HB	86:Az:90:LEU:CG	1.94	0.96
85:2:1429:A:H2'	85:2:1430:C:C5'	1.94	0.96
86:Az:26:GLY:HA2	86:Az:46:CYS:SG	2.06	0.96
86:Az:41:MET:CE	86:Az:62:ILE:HG12	1.95	0.96
85:2:1379:U:HO2'	85:2:1380:G:H5''	1.17	0.96
51:Br:161:ARG:HA	85:2:1669:C:N4	1.80	0.96
78:BI:63:ALA:O	78:BI:67:ALA:HB2	1.65	0.96
85:2:1445:U:O2	85:2:1446:A:C8	2.17	0.96
61:Bc:113:ARG:HD2	61:Bc:119:THR:CB	1.95	0.96
85:2:1030:U:H5''	85:2:1031:U:H5'	1.48	0.96
21:Au:84:PRO:HG2	21:Au:116:ILE:CD1	1.95	0.95
33:AI:100:ARG:NE	33:AI:209:VAL:CG1	2.29	0.95
36:AL:70:ASN:ND2	86:Az:80:ARG:NH2	2.13	0.95
89:Bk:107:ILE:HD11	89:Bk:110:ARG:HD3	1.46	0.95
85:2:1170:A:H61	85:2:1401:A:N6	1.52	0.95
43:1:761:C:C2	43:1:767:G:N2	2.33	0.95
85:2:382:A:OP2	89:Bk:31:THR:CG2	2.13	0.95
89:Bk:68:PRO:CG	89:Bk:96:HIS:CE1	2.49	0.95
85:2:1434:G:N2	85:2:1435:U:C2	2.34	0.95
52:Bw:455:GLU:HG2	52:Bw:457:ASN:H	1.32	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
77:BE:345:LYS:NZ	77:BE:383:CYS:SG	2.39	0.95
88:BK:219:ALA:HB1	88:BK:254:ALA:HB2	0.98	0.95
85:2:1165:C:O2'	85:2:1166:A:C5'	2.15	0.95
21:AU:35:ILE:HG12	21:AU:47:VAL:HG12	1.47	0.95
34:AJ:68:PHE:HD2	34:AJ:78:ILE:CA	1.79	0.94
18:AR:189:ILE:HG22	86:AZ:94:LEU:O	1.66	0.94
85:2:1178:G:C2	85:2:1179:A:C6	2.54	0.94
85:2:1387:G:O2'	85:2:1388:A:C8	2.21	0.94
26:AA:48:ILE:HG23	30:AF:224:THR:HA	1.45	0.94
1:Aa:88:LYS:HE2	1:Aa:91:PRO:HG2	1.50	0.94
85:2:922:G:N3	85:2:922:G:H2'	1.79	0.94
85:2:1170:A:C6	85:2:1401:A:N6	2.27	0.94
2:Ab:176:SER:HB3	2:Ab:180:GLY:H	1.32	0.94
36:AL:70:ASN:HD22	86:AZ:80:ARG:HD2	1.32	0.94
43:1:722:A:H61	43:1:2340:G:H21	1.15	0.94
43:1:1855:G:HO2'	43:1:1856:A:H8	0.99	0.94
87:Ah:121:TYR:CE1	87:Ah:126:TYR:CG	2.53	0.94
61:Bc:32:ARG:HH12	61:Bc:118:GLU:HG3	1.33	0.93
43:1:66:G:N1	43:1:597:A:C6	2.35	0.93
43:1:2700:C:H2'	43:1:2701:C:H5'	1.48	0.93
85:2:1429:A:C3'	85:2:1430:C:H5''	1.98	0.93
88:BK:66:ALA:HB1	88:BK:95:ALA:HA	1.50	0.93
85:2:1425:U:H1'	85:2:1426:G:N7	1.78	0.93
51:Br:175:ARG:HG2	51:Br:184:ARG:CD	1.99	0.93
85:2:427:U:H3	85:2:453:G:H1	1.10	0.93
43:1:230:G:N3	43:1:515:G:N2	2.17	0.93
43:1:755:U:H3	43:1:772:G:H1	0.98	0.93
89:Bk:107:ILE:CD1	89:Bk:110:ARG:HG3	1.99	0.93
18:AR:193:ILE:HB	86:AZ:90:LEU:CD2	1.99	0.93
85:2:471:C:N4	85:2:480:C:N3	2.16	0.93
86:AZ:22:THR:CG2	86:AZ:71:VAL:HG23	1.98	0.93
43:1:1148:U:O4	43:1:1305:A:N7	2.02	0.93
85:2:1424:G:C4	85:2:1456:G:N2	2.37	0.93
85:2:435:G:H1	85:2:446:U:H3	1.16	0.92
51:Br:191:LYS:NZ	51:Br:198:GLU:CD	2.25	0.92
34:AJ:29:CYS:SG	34:AJ:79:ARG:HD3	1.87	0.92
39:AO:466:ARG:HG2	39:AO:488:SER:HB2	1.49	0.92
85:2:1207:C:N4	85:2:1382:C:OP1	2.00	0.92
87:Ah:32:LEU:CD2	87:Ah:109:ASN:HD21	1.83	0.92
65:Bj:248:ARG:CA	65:Bj:251:LYS:HE2	2.00	0.92
76:BD:325:ARG:HD2	76:BD:344:LYS:HB2	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:BJ:11:ALA:O	79:BJ:15:ALA:HB2	1.67	0.92
54:Bz:311:ARG:NE	54:Bz:355:GLU:HA	1.82	0.92
65:Bj:248:ARG:O	65:Bj:251:LYS:CG	2.18	0.92
26:AA:48:ILE:CG2	30:AF:224:THR:CA	2.32	0.92
85:2:1789:G:N2	85:2:1858:C:O2	2.03	0.92
85:2:1451:G:O2'	85:2:1452:C:OP2	1.86	0.92
43:1:1070:G:H2'	43:1:1071:G:C8	2.05	0.92
43:1:1138:G:OP2	86:Az:28:PRO:CG	2.17	0.92
43:1:1872:A:HO2'	43:1:1873:G:H8	0.99	0.92
85:2:1451:G:O3'	85:2:1452:C:OP1	1.88	0.92
33:AI:213:LYS:HZ1	33:AI:217:LEU:H	1.16	0.91
85:2:1387:G:O2'	85:2:1388:A:H8	1.53	0.91
40:AP:666:ALA:O	40:AP:670:ALA:N	2.03	0.91
43:1:429:G:H1	43:1:475:A:H61	1.14	0.91
51:Br:162:ARG:NH2	85:2:1668:A:N3	2.17	0.91
85:2:43:G:O6	85:2:546:U:C4	2.22	0.91
21:AU:25:ARG:HG2	43:1:443:A:H5''	1.52	0.91
43:1:423:G:O6	43:1:481:U:C4	2.23	0.91
85:2:1428:G:O2'	85:2:1429:A:H5'	1.71	0.91
85:2:671:A:N6	85:2:709:G:H1	1.67	0.91
85:2:1168:G:O6	85:2:1404:C:N4	2.03	0.91
18:Ar:193:ILE:CB	86:Az:90:LEU:HD13	1.99	0.91
34:AJ:84:ASP:OD1	87:Ah:108:ASP:HB2	1.71	0.91
51:Br:162:ARG:HH21	85:2:1668:A:H1'	1.34	0.91
85:2:536:G:OP2	89:Bk:112:ARG:NH2	2.03	0.91
21:AU:84:PRO:HD2	21:AU:116:ILE:CD1	2.00	0.91
88:BK:197:ALA:HA	88:BK:200:ALA:HB3	1.53	0.91
34:AJ:84:ASP:CG	87:Ah:108:ASP:O	2.14	0.91
65:Bj:251:LYS:HZ2	65:Bj:285:SER:CB	1.80	0.91
85:2:48:C:O2	85:2:420:G:N2	2.03	0.91
85:2:1457:C:HO2'	85:2:1458:C:H6	1.14	0.91
19:As:184:PHE:CE1	19:As:186:LYS:HD2	2.05	0.91
39:AO:166:THR:HG1	39:AO:194:TYR:HH	1.12	0.91
43:1:604:G:N2	43:1:607:A:OP2	2.03	0.90
43:1:756:U:O2	43:1:771:A:N6	2.05	0.90
43:1:3121:U:H3	43:1:3143:G:H1	0.95	0.90
85:2:710:A:H2'	85:2:711:A:C8	2.05	0.90
26:AA:44:MET:HB3	26:AA:50:GLN:HB3	1.53	0.90
43:1:137:U:O2	43:1:147:G:N2	2.04	0.90
61:Bc:113:ARG:NH1	61:Bc:119:THR:CG2	2.33	0.90
65:Bj:248:ARG:C	65:Bj:251:LYS:HG2	1.97	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:Az:20:TYR:O	86:Az:73:THR:HG22	1.70	0.90
85:2:70:U:H3	85:2:169:G:H1	1.19	0.90
85:2:396:G:H2'	85:2:397:G:H8	1.36	0.90
85:2:1429:A:HO2'	85:2:1430:C:H4'	1.33	0.90
33:Al:90:ARG:H	33:Al:107:LEU:HD12	1.35	0.90
85:2:1069:G:N2	85:2:1072:A:OP2	2.05	0.90
85:2:1434:G:N2	85:2:1446:A:N1	2.18	0.90
86:Az:41:MET:SD	86:Az:62:ILE:CD1	2.59	0.90
18:Ar:185:SER:O	86:Az:98:HIS:ND1	2.03	0.90
43:1:2070:G:N2	43:1:2073:C:C2	2.39	0.90
52:Bw:442:TYR:HB3	52:Bw:449:ARG:H	1.34	0.90
21:Au:136:LYS:HD2	31:AG:78:SER:HA	1.53	0.90
89:Bk:66:TYR:CZ	89:Bk:87:VAL:CG2	2.55	0.90
85:2:1187:G:C3'	85:2:1188:A:H5''	2.01	0.90
85:2:1391:A:O3'	85:2:1392:A:O5'	1.89	0.90
12:Al:83:ARG:NH2	43:1:737:G:OP1	2.06	0.89
13:Am:96:ARG:HH11	43:1:2767:A:H5'	1.36	0.89
43:1:761:C:C2	43:1:767:G:C2	2.60	0.89
73:By:96:TRP:HZ2	85:2:209:C:H5''	1.36	0.89
85:2:1789:G:N1	85:2:1858:C:N3	2.20	0.89
22:Av:178:ARG:HD3	43:1:1018:G:H5'	1.53	0.89
44:3:86:G:OP2	86:Az:31:ARG:HD2	1.72	0.89
65:Bj:248:ARG:HA	65:Bj:251:LYS:HE2	1.53	0.89
85:2:781:G:H1	85:2:795:U:H3	1.13	0.89
86:Az:27:LEU:HD11	86:Az:35:ARG:HG2	1.54	0.89
87:Ah:121:TYR:CE1	87:Ah:126:TYR:HA	2.07	0.89
13:Am:41:ARG:HB2	43:1:1014:A:H5''	1.54	0.89
61:Bc:113:ARG:NH1	61:Bc:119:THR:HG21	1.87	0.89
36:AL:57:CYS:SG	86:Az:59:ARG:CD	2.60	0.89
50:Bm:77:ARG:HH12	50:Bm:125:ASN:HD22	1.19	0.89
85:2:1449:A:HO2'	85:2:1450:C:P	1.96	0.89
44:3:19:A:H61	44:3:70:G:H21	1.20	0.89
52:Bw:354:VAL:HG12	52:Bw:400:VAL:HB	1.51	0.89
63:Be:88:LEU:HD21	63:Be:91:TRP:HB3	1.53	0.89
46:Bf:80:ALA:O	46:Bf:84:GLN:HB2	1.73	0.89
7:Af:51:LYS:HB3	7:Af:54:VAL:HG12	1.55	0.89
17:Aq:37:ARG:O	17:Aq:41:ASN:HB2	1.72	0.89
62:Bd:367:LYS:HE2	62:Bd:403:GLY:HA2	1.55	0.89
65:Bj:248:ARG:CB	65:Bj:251:LYS:HE2	2.03	0.89
85:2:669:G:H2'	85:2:670:A:H8	1.36	0.89
85:2:1451:G:O2'	85:2:1452:C:P	2.31	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AI:100:ARG:HE	33:AI:209:VAL:HG13	1.32	0.88
85:2:233:A:H5''	85:2:235:A:H62	1.39	0.88
85:2:709:G:H2'	85:2:710:A:C8	2.09	0.88
85:2:1407:G:OP1	88:BK:16:ALA:CB	2.22	0.88
85:2:76:G:H1	85:2:165:A:N6	1.68	0.88
85:2:1407:G:P	88:BK:16:ALA:HB1	2.13	0.88
85:2:1424:G:C5	85:2:1456:G:N2	2.41	0.88
88:BK:240:ALA:HA	88:BK:244:ALA:HB2	1.55	0.88
9:AI:18:ARG:HB3	43:1:1207:G:H4'	1.52	0.88
85:2:904:U:OP2	89:Bk:94:LYS:NZ	2.05	0.88
85:2:1059:A:H62	85:2:1101:A:H5'	1.37	0.88
18:Ar:214:ILE:HD11	18:Ar:227:ARG:HD3	1.55	0.88
30:AF:196:ALA:HB2	33:AI:169:ALA:HA	1.56	0.88
85:2:559:G:C4	89:Bk:13:GLU:O	2.27	0.88
43:1:761:C:N3	43:1:767:G:N1	2.21	0.88
43:1:3045:U:H3	43:1:3056:G:H1	0.89	0.88
85:2:396:G:N1	85:2:405:C:N3	2.22	0.88
85:2:994:A:H61	85:2:1033:C:H42	1.22	0.88
43:1:2458:A:H8	43:1:2460:U:H3	1.22	0.88
52:Bw:304:LEU:H	52:Bw:330:HIS:HD2	1.18	0.88
87:Ah:32:LEU:HD21	87:Ah:109:ASN:ND2	1.87	0.88
14:An:93:ARG:NH1	43:1:3156:A:OP1	2.07	0.87
43:1:2022:G:H21	43:1:2036:A:H62	1.11	0.87
85:2:498:C:OP1	89:Bk:121:LYS:HD3	1.72	0.87
85:2:1373:U:HO2'	85:2:1374:C:H6	1.22	0.87
43:1:1572:A:H3'	43:1:1573:C:H2'	1.54	0.87
85:2:1402:U:O3'	85:2:1403:U:OP2	1.91	0.87
85:2:1458:C:N4	85:2:1459:A:C6	2.42	0.87
18:Ar:189:ILE:CG2	86:Az:94:LEU:HB2	2.01	0.87
61:Bc:20:GLN:NE2	85:2:447:U:OP1	2.07	0.87
85:2:435:G:N2	85:2:446:U:O2	2.07	0.87
85:2:1445:U:H3	85:2:1446:A:N6	1.73	0.87
34:AJ:64:VAL:HG11	34:AJ:85:LYS:HA	1.55	0.87
43:1:429:G:H1	43:1:475:A:N6	1.71	0.87
85:2:1449:A:O2'	85:2:1450:C:P	2.32	0.87
34:AJ:29:CYS:SG	34:AJ:79:ARG:NE	2.38	0.87
62:Bd:367:LYS:CE	62:Bd:403:GLY:HA2	2.04	0.87
85:2:468:G:N2	85:2:476:A:OP1	2.07	0.87
88:BK:278:ALA:HB2	88:BK:308:ALA:HA	1.56	0.87
60:Ba:117:ARG:HB3	60:Ba:119:ARG:HG3	1.56	0.87
85:2:1202:C:HO2'	85:2:1203:U:H5'	1.08	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:Bh:306:ALA:HB3	47:Bh:321:ILE:O	1.75	0.86
85:2:536:G:OP1	89:Bk:111:ARG:HD2	1.75	0.86
85:2:1750:G:O6	85:2:1900:G:N2	2.08	0.86
43:1:761:C:O2	43:1:767:G:C2	2.28	0.86
43:1:2070:G:N2	43:1:2073:C:O2	2.08	0.86
65:Bj:248:ARG:HG2	65:Bj:251:LYS:HZ3	1.39	0.86
85:2:396:G:N2	85:2:405:C:O2	2.09	0.86
85:2:986:G:O2'	85:2:987:A:N7	2.08	0.86
85:2:1179:A:H2	85:2:1392:A:N1	1.73	0.86
18:Ar:217:LYS:NZ	43:1:715:C:OP1	2.07	0.86
43:1:1148:U:H3	43:1:1305:A:H62	0.89	0.86
43:1:1184:U:H3	43:1:1269:G:H1	0.91	0.86
51:Br:178:ASN:O	51:Br:178:ASN:OD1	1.92	0.86
85:2:1406:G:O2'	85:2:1407:G:C5'	2.22	0.86
39:AO:363:ARG:HH12	43:1:1837:G:H21	1.22	0.86
18:Ar:193:ILE:CD1	86:Az:90:LEU:CB	2.13	0.86
21:Au:36:LYS:HE2	21:Au:48:GLU:HB2	1.58	0.86
85:2:1178:G:N2	85:2:1179:A:C2	2.44	0.86
85:2:1407:G:O2'	85:2:1408:C:OP2	1.94	0.86
85:2:1440:G:H4'	85:2:1441:G:H5'	1.58	0.86
21:Au:84:PRO:CG	21:Au:116:ILE:CD1	2.52	0.86
34:AJ:72:ALA:HB3	43:1:1259:U:OP1	1.76	0.86
43:1:1195:U:C2	87:Ah:62:LYS:NZ	2.25	0.86
43:1:2626:A:H2'	43:1:2627:U:C6	2.10	0.86
54:Bz:310:ASN:OD1	54:Bz:357:ARG:NH1	2.07	0.86
85:2:1177:U:C5	85:2:1178:G:C5	2.63	0.86
30:AF:183:ARG:NH2	44:3:57:G:N3	2.23	0.86
34:AJ:29:CYS:CA	34:AJ:79:ARG:HD3	2.06	0.86
43:1:3034:U:H5''	43:1:3035:A:H5'	1.57	0.86
43:1:2958:U:O2	43:1:2967:A:N7	2.08	0.86
85:2:1383:G:O2'	85:2:1384:G:O5'	1.92	0.86
14:An:99:ILE:HG13	14:An:100:ARG:H	1.41	0.85
85:2:1405:A:O2'	85:2:1406:G:C8	2.27	0.85
43:1:1582:G:N2	43:1:1625:G:O6	2.09	0.85
51:Br:146:LEU:CD1	51:Br:150:LYS:CE	2.53	0.85
86:Az:62:ILE:HG22	86:Az:62:ILE:O	1.76	0.85
1:Aa:10:ARG:NH1	38:AN:110:ASN:OD1	2.08	0.85
43:1:134:C:N3	43:1:151:U:O4	2.09	0.85
43:1:1185:G:N2	43:1:1268:G:H22	1.74	0.85
43:1:3045:U:O2	43:1:3056:G:N2	2.08	0.85
54:Bz:296:ARG:NH1	85:2:1628:G:OP1	2.10	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:855:G:O6	85:2:863:G:N2	2.09	0.85
85:2:1425:U:N1	85:2:1426:G:N7	2.12	0.85
5:Ad:132:GLN:NE2	43:1:584:A:N7	2.23	0.85
68:Bp:32:ARG:HG3	89:Bk:8:ILE:HD11	1.58	0.85
3:Ac:239:ARG:HD3	43:1:3096:G:OP1	1.74	0.85
85:2:826:G:N2	85:2:851:C:O2	2.08	0.85
85:2:1170:A:H2	85:2:1402:U:H3	1.21	0.85
85:2:1429:A:C2'	85:2:1430:C:H4'	2.05	0.85
85:2:1706:A:H2	85:2:1714:G:H1	0.88	0.85
43:1:1255:G:C1'	87:Ah:79:MET:CE	2.48	0.85
43:1:1666:C:H42	43:1:1878:U:H3	1.25	0.85
43:1:3150:C:H2'	43:1:3151:G:H8	1.42	0.85
52:Bw:203:VAL:HA	52:Bw:206:GLN:HE22	1.40	0.85
85:2:1172:C:HO2'	85:2:1173:C:H6	1.20	0.85
89:Bk:107:ILE:HD12	89:Bk:110:ARG:HG3	1.57	0.85
25:Ay:73:LEU:HD11	25:Ay:124:ARG:HH12	1.42	0.85
51:Br:166:LEU:CD1	51:Br:169:TYR:H	1.90	0.85
68:Bp:32:ARG:CG	89:Bk:8:ILE:HD11	2.06	0.85
85:2:920:G:N2	85:2:1927:A:O3'	2.10	0.85
43:1:1136:C:OP1	86:Az:25:ARG:NH2	2.09	0.85
3:Ac:155:ARG:NH2	3:Ac:156:GLU:O	2.10	0.84
60:Ba:17:HIS:HB2	60:Ba:183:LYS:HB2	1.59	0.84
21:Au:47:VAL:CG2	21:Au:50:LYS:HB3	2.08	0.84
49:Bl:43:LYS:HB2	49:Bl:44:PRO:HD3	1.57	0.84
79:BJ:316:ALA:HB1	79:BJ:319:ALA:HB3	1.59	0.84
25:Ay:56:TYR:HB2	25:Ay:106:ARG:CZ	2.07	0.84
43:1:2408:A:N1	43:1:2488:G:N2	2.25	0.84
88:BK:50:ALA:N	88:BK:54:ALA:HB2	1.92	0.84
32:AH:125:LEU:HD21	32:AH:128:ARG:HG2	1.59	0.84
35:AK:84:HIS:O	35:AK:88:ARG:HB2	1.76	0.84
85:2:1425:U:O3'	85:2:1426:G:P	2.36	0.84
85:2:1425:U:HO3'	85:2:1426:G:P	1.99	0.84
1:Aa:86:ILE:HB	2:Ab:76:ASN:HD21	1.43	0.84
6:Ae:133:THR:HB	6:Ae:155:PHE:CD2	2.12	0.84
88:BK:77:ALA:HA	88:BK:92:ALA:HB1	1.58	0.84
52:Bw:252:PHE:HA	52:Bw:263:THR:HA	1.59	0.84
85:2:1434:G:N2	85:2:1447:G:N1	2.26	0.84
86:Az:22:THR:HG23	86:Az:71:VAL:CG2	2.07	0.84
10:Aj:35:PHE:O	10:Aj:73:VAL:HA	1.78	0.84
45:Bb:536:LYS:NZ	85:2:1050:G:OP1	2.08	0.84
43:1:1255:G:O4'	87:Ah:79:MET:HE1	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1637:C:H4'	43:1:1638:C:H5'	1.60	0.84
49:Bl:58:ARG:HH22	56:Bt:54:LYS:HB3	1.42	0.84
85:2:1045:G:N1	85:2:1050:G:O6	2.10	0.84
26:AA:50:GLN:NE2	26:AA:51:ILE:O	2.11	0.84
86:Az:22:THR:CG2	86:Az:71:VAL:CG2	2.54	0.84
43:1:1667:U:H3	43:1:1876:G:H1	1.24	0.84
44:3:72:G:O6	44:3:105:U:C2	2.30	0.84
78:Bl:245:ALA:HB1	85:2:1803:C:H3'	1.59	0.84
6:Ae:123:ARG:HH22	6:Ae:173:TRP:HB3	1.39	0.83
43:1:2303:G:N2	43:1:2307:C:O2	2.11	0.83
43:1:2484:A:H2'	43:1:2485:A:H8	1.41	0.83
85:2:1383:G:O2'	85:2:1384:G:O4'	1.93	0.83
87:Ah:121:TYR:HE1	87:Ah:126:TYR:CD1	1.55	0.83
20:At:99:PHE:HB3	20:At:101:VAL:HG22	1.59	0.83
43:1:66:G:N1	43:1:597:A:N6	2.27	0.83
43:1:2949:C:H2'	43:1:2950:A:H8	1.43	0.83
77:BE:52:ARG:HD3	77:BE:86:ILE:HD13	1.59	0.83
85:2:1131:G:N1	85:2:1486:U:N3	2.21	0.83
6:Ae:137:GLU:HG2	6:Ae:143:GLU:OE1	1.78	0.83
65:Bj:251:LYS:NZ	65:Bj:285:SER:CB	2.37	0.83
88:BK:268:ALA:HB1	88:BK:277:ALA:HB2	1.59	0.83
38:AN:129:ARG:NH2	43:1:1881:A:N7	2.26	0.83
85:2:1215:A:HO2'	85:2:1216:C:H6	1.23	0.83
85:2:1379:U:C2'	85:2:1380:G:H5''	2.09	0.83
85:2:1445:U:N3	85:2:1446:A:N6	2.26	0.83
3:Ac:236:MET:N	3:Ac:236:MET:SD	2.51	0.83
43:1:48:A:O2'	43:1:49:G:N2	2.10	0.83
43:1:2438:G:H2'	43:1:2439:G:H8	1.42	0.83
85:2:1429:A:C2'	85:2:1430:C:C4'	2.54	0.83
62:Bd:498:PRO:HA	62:Bd:501:VAL:HG12	1.60	0.83
85:2:1178:G:N1	85:2:1179:A:C6	2.46	0.83
43:1:2924:U:H2'	43:1:2925:G:H8	1.43	0.83
65:Bj:214:GLY:O	85:2:678:G:N2	2.12	0.83
9:Ai:114:VAL:HG13	9:Ai:139:ILE:HD11	1.61	0.83
17:Aq:26:GLU:OE2	43:1:1408:G:N2	2.12	0.83
18:Ar:118:GLU:HG3	18:Ar:123:VAL:CG2	2.08	0.83
43:1:138:G:H1	43:1:146:U:H3	0.83	0.83
45:Bb:424:ARG:HG3	45:Bb:437:ILE:HD12	1.60	0.83
19:As:128:ARG:NH2	19:As:177:ALA:O	2.11	0.83
56:Bt:69:ARG:HG3	56:Bt:70:GLY:H	1.41	0.83
65:Bj:194:ASP:HB2	65:Bj:258:VAL:HG12	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:Az:41:MET:SD	86:Az:62:ILE:HD11	2.19	0.83
17:Aq:53:ARG:NH1	17:Aq:89:MET:SD	2.52	0.82
86:Az:23:LEU:HB2	86:Az:43:LEU:HD13	1.59	0.82
9:Ai:18:ARG:HE	43:1:1207:G:HO2'	1.26	0.82
43:1:2413:G:H1	43:1:2483:U:H3	0.83	0.82
89:Bk:83:ARG:NE	89:Bk:96:HIS:HD2	1.78	0.82
23:Aw:113:ARG:NH1	23:Aw:128:ASP:OD2	2.11	0.82
43:1:761:C:O2	43:1:767:G:N2	2.11	0.82
43:1:1325:C:H42	43:1:1329:U:H3	1.26	0.82
53:Bx:43:ARG:HH22	85:2:1610:A:H62	1.26	0.82
72:Bv:43:PHE:HB3	76:BD:338:LYS:HD2	1.59	0.82
85:2:925:U:O2	85:2:1734:G:N2	2.11	0.82
36:AL:66:PRO:HA	86:Az:76:MET:HB3	1.61	0.82
45:Bb:359:LEU:O	45:Bb:363:LEU:HB2	1.79	0.82
39:AO:193:SER:O	39:AO:197:ASN:ND2	2.12	0.82
54:Bz:311:ARG:CD	54:Bz:355:GLU:O	2.27	0.82
78:BI:99:ALA:HA	78:BI:103:ALA:HB3	1.60	0.82
3:Ac:89:LEU:HD23	3:Ac:99:ILE:HG13	1.59	0.82
19:As:184:PHE:HE1	19:As:186:LYS:HD2	1.45	0.82
34:AJ:25:PHE:CE2	34:AJ:78:ILE:HG22	2.15	0.82
61:Bc:108:ASP:HB3	61:Bc:127:ILE:HD12	1.61	0.82
85:2:1445:U:N1	85:2:1446:A:N7	2.27	0.82
85:2:671:A:H61	85:2:709:G:H1	1.17	0.82
36:AL:50:ASN:OD1	86:Az:72:GLU:HB2	1.79	0.82
43:1:1590:C:C2	43:1:1619:G:N2	2.48	0.82
43:1:2051:U:H1'	43:1:2052:C:H5'	1.62	0.82
43:1:2627:U:H2'	43:1:2628:G:C8	2.14	0.82
62:Bd:367:LYS:NZ	62:Bd:380:TYR:HB3	1.95	0.82
85:2:520:A:N6	89:Bk:87:VAL:HG13	1.94	0.82
13:Am:131:LYS:NZ	43:1:1103:G:OP1	2.12	0.82
43:1:272:A:H1'	43:1:273:C:H5'	1.60	0.82
43:1:856:U:O4	43:1:859:A:N7	2.12	0.82
43:1:1174:G:N1	43:1:1288:G:O6	2.12	0.82
48:Bi:151:THR:HG22	48:Bi:152:ARG:H	1.45	0.82
54:Bz:311:ARG:O	54:Bz:360:ASN:ND2	2.13	0.82
85:2:423:U:H1'	85:2:495:A:H2'	1.62	0.82
85:2:1218:U:HO2'	85:2:1219:C:H6	1.28	0.82
17:Aq:25:ARG:NH2	43:1:1408:G:OP1	2.12	0.82
39:AO:66:ARG:NH2	43:1:1646:C:OP1	2.13	0.82
43:1:2702:C:N4	43:1:2703:G:O6	2.13	0.82
51:Br:162:ARG:HH21	85:2:1668:A:C1'	1.93	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1212:U:HO2'	85:2:1213:C:H6	1.26	0.82
85:2:1512:C:N4	85:2:1524:G:O6	2.09	0.82
5:Ad:135:THR:HB	43:1:41:A:H1'	1.61	0.81
43:1:995:G:C1'	86:Az:61:MET:HB2	2.09	0.81
43:1:1185:G:H22	43:1:1268:G:H22	1.25	0.81
85:2:1430:C:O2'	85:2:1431:G:H8	1.63	0.81
85:2:1626:G:N3	85:2:1632:C:O2'	2.12	0.81
43:1:1590:C:O2	43:1:1619:G:N2	2.13	0.81
43:1:2413:G:N2	43:1:2483:U:O2	2.12	0.81
47:Bh:307:TYR:HH	85:2:1497:C:HO2'	1.13	0.81
85:2:671:A:N6	85:2:709:G:N1	2.27	0.81
85:2:696:C:H5'	85:2:698:G:H5'	1.59	0.81
21:Au:14:LYS:O	21:Au:91:LYS:NZ	2.12	0.81
22:Av:37:GLN:HB3	22:Av:89:GLN:HE22	1.43	0.81
25:Ay:73:LEU:HD11	25:Ay:124:ARG:NH1	1.94	0.81
28:AC:19:GLY:O	28:AC:45:ARG:NH2	2.14	0.81
43:1:606:G:H21	43:1:827:G:H1'	1.45	0.81
43:1:1669:G:O6	43:1:1874:A:N1	2.12	0.81
43:1:2545:U:H2'	43:1:2546:U:H6	1.42	0.81
68:Bp:74:ILE:HG21	68:Bp:77:LYS:HE2	1.61	0.81
85:2:1382:C:O2'	85:2:1383:G:OP2	1.99	0.81
85:2:1388:A:O2'	85:2:1389:G:P	2.37	0.81
86:Az:27:LEU:HD12	86:Az:30:THR:HG21	1.61	0.81
86:Az:62:ILE:HG22	86:Az:72:GLU:OE2	1.80	0.81
11:Ak:155:HIS:CG	16:Ap:148:ASN:HD21	1.99	0.81
30:AF:223:ALA:HB2	33:Al:38:VAL:HB	1.62	0.81
41:AQ:167:SER:HA	41:AQ:170:LYS:HE2	1.63	0.81
43:1:1070:G:H2'	43:1:1071:G:H8	1.42	0.81
85:2:1423:U:O3'	85:2:1424:G:OP1	1.98	0.81
85:2:1435:U:O2	85:2:1446:A:N1	2.14	0.81
32:AH:30:MET:HA	32:AH:34:LEU:HD13	1.60	0.81
43:1:1429:U:O2'	43:1:3014:G:O6	1.98	0.81
51:Br:174:VAL:HG11	51:Br:196:PHE:CZ	2.16	0.81
85:2:761:G:H1	85:2:809:G:HO2'	1.26	0.81
85:2:1379:U:O3'	85:2:1380:G:OP1	1.97	0.81
85:2:925:U:H3	85:2:1734:G:H1	1.28	0.81
85:2:130:U:H3	85:2:152:G:H22	1.26	0.81
85:2:1420:U:H4'	85:2:1421:G:H5'	1.61	0.81
88:BK:182:ALA:CB	88:BK:217:ALA:CB	2.56	0.81
17:Aq:72:LEU:HD22	17:Aq:77:ILE:HD12	1.62	0.81
51:Br:149:LYS:NZ	85:2:1013:A:H5'	1.95	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:Bw:304:LEU:H	52:Bw:330:HIS:CD2	1.97	0.81
21:Au:17:ARG:NH2	43:1:84:G:OP2	2.14	0.81
33:AI:39:VAL:HG23	33:AI:108:ASP:HB3	1.63	0.81
81:BN:62:ALA:O	81:BN:66:ALA:HB2	1.81	0.81
85:2:690:A:H61	85:2:783:G:H21	1.28	0.81
86:Az:22:THR:HG23	86:Az:71:VAL:HG23	1.61	0.81
36:AL:46:ARG:CZ	86:Az:70:VAL:N	2.44	0.80
43:1:66:G:C6	43:1:597:A:N6	2.49	0.80
43:1:1025:G:H1	43:1:1042:U:H3	1.27	0.80
85:2:67:A:H3'	85:2:350:G:H22	1.46	0.80
3:Ac:131:LYS:HB2	3:Ac:134:HIS:HD2	1.43	0.80
18:Ar:186:GLN:HA	86:Az:97:SER:HA	1.62	0.80
18:Ar:189:ILE:HG22	86:Az:94:LEU:C	2.06	0.80
24:Ax:99:ARG:NH2	43:1:531:C:OP2	2.13	0.80
34:AJ:67:ALA:CA	34:AJ:82:ILE:HD11	2.10	0.80
51:Br:146:LEU:HD13	51:Br:150:LYS:HD2	0.82	0.80
54:Bz:311:ARG:CZ	54:Bz:355:GLU:HA	2.10	0.80
85:2:1390:A:C3'	85:2:1391:A:P	2.69	0.80
43:1:2959:A:H62	43:1:2966:G:H21	0.83	0.80
54:Bz:312:LYS:NZ	85:2:1627:C:OP1	2.12	0.80
85:2:1167:A:O2'	85:2:1168:G:C8	2.33	0.80
85:2:1457:C:O2'	85:2:1458:C:C5	2.30	0.80
34:AJ:54:PRO:HB2	34:AJ:70:ALA:HA	1.63	0.80
85:2:1421:G:N2	85:2:1461:A:N6	2.30	0.80
48:Bi:129:LYS:H	48:Bi:219:HIS:HB2	1.46	0.80
23:Aw:119:ILE:HG22	23:Aw:120:THR:HG23	1.63	0.80
39:AO:363:ARG:NH2	43:1:1860:U:O2	2.14	0.80
51:Br:146:LEU:HD12	51:Br:150:LYS:HD3	1.63	0.80
78:BI:195:ALA:HB1	78:BI:229:ALA:H	1.47	0.80
85:2:336:U:H3	85:2:355:G:H1	1.28	0.80
85:2:1773:U:O2	85:2:1872:G:N2	2.12	0.80
4:AD:132:ARG:NH2	43:1:2659:G:OP1	2.14	0.80
13:Am:98:MET:HG3	13:Am:102:PHE:HB3	1.63	0.80
17:Aq:35:SER:OG	17:Aq:39:ARG:NH1	2.14	0.80
43:1:1844:U:H3	43:1:1852:C:H42	1.30	0.80
49:Bl:116:ARG:HH22	49:Bl:120:HIS:HB2	1.44	0.80
51:Br:174:VAL:HG11	51:Br:196:PHE:HZ	1.47	0.80
85:2:187:C:H2'	85:2:188:G:H8	1.47	0.80
85:2:427:U:H3'	85:2:428:G:H8	1.47	0.80
85:2:1187:G:H3'	85:2:1188:A:H5''	1.64	0.80
85:2:1405:A:O2'	85:2:1406:G:H8	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1458:C:C4	85:2:1459:A:C5	2.70	0.80
43:1:856:U:C4	43:1:859:A:N7	2.49	0.80
43:1:1246:U:H3'	43:1:1247:A:H8	1.47	0.80
86:Az:91:ARG:HB3	86:Az:92:PRO:HD2	1.63	0.80
34:AJ:8:VAL:HG23	34:AJ:58:VAL:HG22	1.61	0.80
73:By:96:TRP:CZ2	85:2:209:C:H5''	2.17	0.80
86:Az:27:LEU:CD1	86:Az:30:THR:HG21	2.12	0.80
43:1:432:A:H2'	43:1:433:A:C8	2.17	0.80
43:1:2627:U:H2'	43:1:2628:G:H8	1.47	0.80
66:Bn:343:MET:SD	66:Bn:352:ARG:NH2	2.55	0.80
85:2:433:A:N6	85:2:448:G:O6	2.15	0.80
12:Al:181:ARG:HA	43:1:788:G:H4'	1.64	0.79
21:Au:47:VAL:HG23	21:Au:50:LYS:CB	2.10	0.79
43:1:858:U:OP2	43:1:861:C:N4	2.14	0.79
51:Br:185:CYS:HB2	51:Br:199:PHE:HB2	1.65	0.79
85:2:872:C:C5	89:Bk:3:THR:HG21	2.18	0.79
85:2:1184:C:HO2'	85:2:1185:C:H6	1.29	0.79
85:2:184:A:O2'	85:2:186:G:N7	2.15	0.79
85:2:1142:A:N6	85:2:1467:U:O4	2.15	0.79
18:Ar:117:GLU:HG3	18:Ar:122:LYS:HG3	1.63	0.79
21:Au:25:ARG:NH2	21:Au:78:ASN:OD1	2.15	0.79
65:Bj:248:ARG:HA	65:Bj:251:LYS:CE	2.12	0.79
85:2:382:A:P	89:Bk:31:THR:CG2	2.69	0.79
21:Au:25:ARG:HH12	43:1:461:U:H2'	1.48	0.79
41:AQ:430:LYS:HB3	43:1:144:U:H3	1.48	0.79
43:1:1500:A:N3	43:1:1543:U:N3	2.30	0.79
54:Bz:311:ARG:CZ	54:Bz:355:GLU:CB	2.60	0.79
67:Bo:64:SER:HB2	72:Bv:85:ILE:HD13	1.63	0.79
2:Ab:86:LYS:NZ	43:1:2118:U:OP2	2.15	0.79
52:Bw:395:HIS:NE2	52:Bw:418:ASP:O	2.15	0.79
62:Bd:316:LYS:HZ3	62:Bd:337:GLU:HB2	1.47	0.79
85:2:51:U:H2'	85:2:52:A:H8	1.48	0.79
85:2:1445:U:N3	85:2:1446:A:C6	2.51	0.79
18:Ar:193:ILE:CD1	86:Az:90:LEU:CA	2.55	0.79
36:AL:70:ASN:ND2	86:Az:80:ARG:HH21	1.78	0.79
43:1:681:G:O6	43:1:704:U:C2	2.36	0.79
43:1:1579:C:O2'	43:1:1580:A:N7	2.15	0.79
43:1:2049:U:N3	43:1:2062:G:N1	2.31	0.79
63:Be:52:ILE:HD11	63:Be:89:LEU:HD13	1.62	0.79
2:Ab:86:LYS:HA	2:Ab:89:ARG:HH21	1.48	0.79
12:Al:143:ALA:O	12:Al:147:ASN:ND2	2.14	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:963:A:H62	43:1:1344:U:H3	1.31	0.79
85:2:1167:A:N6	85:2:1405:A:N6	2.30	0.79
43:1:2152:G:O6	43:1:2241:G:N2	2.14	0.79
44:3:72:G:H2'	44:3:73:C:C6	2.18	0.79
51:Br:174:VAL:CG1	51:Br:196:PHE:HZ	1.95	0.79
62:Bd:367:LYS:NZ	62:Bd:403:GLY:HA2	1.97	0.79
65:Bj:248:ARG:HA	65:Bj:251:LYS:CD	2.13	0.79
77:BE:297:TRP:HA	77:BE:300:LYS:HE2	1.65	0.79
85:2:1117:U:OP2	85:2:1495:C:N4	2.16	0.79
35:AK:78:ARG:HH11	43:1:557:C:H1'	1.48	0.78
62:Bd:432:ALA:HA	62:Bd:444:LEU:O	1.81	0.78
34:Aj:64:VAL:CG1	34:Aj:85:LYS:C	2.56	0.78
44:3:2:A:H2'	44:3:2:A:OP2	1.82	0.78
85:2:680:G:N1	85:2:699:A:OP2	2.15	0.78
85:2:921:G:H4'	85:2:1928:U:O3'	1.84	0.78
85:2:1110:U:H3	85:2:1505:G:H1	1.27	0.78
85:2:1807:G:O6	85:2:1839:U:O2	2.02	0.78
51:Br:161:ARG:NH1	85:2:1670:U:H3	1.82	0.78
63:Be:14:ILE:O	63:Be:87:LYS:NZ	2.15	0.78
3:Ac:124:GLN:HE21	3:Ac:154:LEU:HG	1.47	0.78
5:Ad:229:TYR:O	5:Ad:232:GLN:NE2	2.16	0.78
43:1:66:G:C6	43:1:597:A:C6	2.72	0.78
85:2:1402:U:C3'	85:2:1403:U:OP2	2.31	0.78
88:BK:219:ALA:HB2	88:BK:254:ALA:CB	1.98	0.78
40:AP:236:ALA:HB1	40:AP:239:ALA:HB3	1.65	0.78
43:1:138:G:N2	43:1:146:U:O2	2.12	0.78
62:Bd:356:LYS:NZ	81:BN:69:ALA:O	2.15	0.78
85:2:1434:G:N2	85:2:1447:G:C2	2.52	0.78
34:Aj:84:ASP:OD2	87:Ah:108:ASP:O	2.00	0.78
62:Bd:316:LYS:NZ	62:Bd:334:GLU:O	2.15	0.78
85:2:421:C:H2'	85:2:422:G:H8	1.47	0.78
85:2:498:C:OP1	89:Bk:121:LYS:CD	2.32	0.78
85:2:773:G:N2	85:2:799:A:OP2	2.17	0.78
43:1:518:U:N3	43:1:522:A:O2'	2.16	0.78
43:1:2356:A:H2'	43:1:2357:A:H8	1.49	0.78
43:1:2373:A:HO2'	43:1:2374:C:H6	1.30	0.78
54:Bz:311:ARG:NE	54:Bz:355:GLU:CA	2.46	0.78
87:Ah:132:MET:HE2	87:Ah:132:MET:HA	1.65	0.78
43:1:2817:U:C4	43:1:2839:A:C6	2.72	0.78
85:2:706:A:H2'	85:2:707:A:H8	1.48	0.78
85:2:1375:G:HO2'	85:2:1376:A:H8	1.30	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1428:G:O6	85:2:1452:C:N4	2.17	0.78
85:2:1435:U:O2	85:2:1446:A:C2	2.35	0.78
85:2:1445:U:C2'	85:2:1446:A:H8	1.96	0.78
88:BK:80:ALA:HB1	88:BK:89:ALA:CA	2.12	0.78
89:Bk:107:ILE:HD11	89:Bk:110:ARG:CG	2.13	0.78
23:Aw:70:LYS:HB2	23:Aw:82:ILE:HG23	1.65	0.78
24:Ax:103:LYS:NZ	43:1:502:A:O2'	2.17	0.78
54:Bz:401:MET:HA	54:Bz:404:LEU:HB2	1.65	0.78
12:Al:234:LYS:NZ	43:1:245:G:OP2	2.17	0.78
54:Bz:311:ARG:NH1	59:BF:102:ALA:O	2.17	0.78
88:BK:86:ALA:HA	88:BK:120:ALA:HB2	1.65	0.78
39:AO:384:ASP:OD2	39:AO:387:ARG:NH1	2.17	0.77
44:3:34:C:H2'	44:3:35:G:H8	1.49	0.77
51:Br:149:LYS:HD3	51:Br:158:ILE:HD12	1.65	0.77
51:Br:175:ARG:HG2	51:Br:184:ARG:HD3	1.66	0.77
85:2:1381:G:OP1	85:2:1381:G:H8	1.68	0.77
21:Au:84:PRO:CD	21:Au:116:ILE:CD1	2.61	0.77
40:AP:231:ALA:HB2	40:AP:237:ALA:H	1.48	0.77
43:1:1221:C:N4	43:1:1248:G:O6	2.16	0.77
43:1:2381:C:H2'	43:1:2382:A:H8	1.49	0.77
50:Bm:105:ASP:HB3	50:Bm:109:TYR:HB2	1.66	0.77
65:Bj:204:ASN:ND2	85:2:685:G:OP2	2.16	0.77
65:Bj:292:ILE:HG22	65:Bj:294:TYR:H	1.48	0.77
72:Bv:128:ARG:HH21	85:2:589:A:H5''	1.49	0.77
76:BD:189:MET:HB2	76:BD:205:LEU:HD11	1.66	0.77
85:2:1131:G:O6	85:2:1486:U:O4	2.02	0.77
88:BK:268:ALA:HB2	88:BK:277:ALA:HB1	1.66	0.77
43:1:1481:G:H3'	43:1:1482:U:H4'	1.66	0.77
43:1:2047:C:N4	43:1:2063:G:O6	2.16	0.77
85:2:172:A:H2	85:2:173:A:H2	1.30	0.77
85:2:642:U:H2'	85:2:643:U:H6	1.50	0.77
18:Ar:152:LYS:NZ	32:AH:134:PRO:O	2.16	0.77
18:Ar:186:GLN:CB	86:Az:97:SER:OG	2.32	0.77
39:AO:367:LEU:HD22	39:AO:371:THR:HG21	1.66	0.77
43:1:3056:G:H2'	43:1:3057:G:H8	1.50	0.77
54:Bz:311:ARG:HD3	54:Bz:355:GLU:CA	2.11	0.77
54:Bz:311:ARG:NH2	54:Bz:355:GLU:HB3	1.98	0.77
61:Bc:28:ASN:OD1	61:Bc:46:ARG:NH2	2.18	0.77
64:Bg:70:ASP:N	64:Bg:129:TYR:O	2.17	0.77
77:BE:108:TYR:HB2	77:BE:355:ILE:HD13	1.65	0.77
85:2:1406:G:O3'	88:BK:18:ALA:HB2	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AB:111:CYS:HB3	27:AB:114:CYS:HB3	1.66	0.77
43:1:1598:G:H1'	43:1:1611:G:H22	1.49	0.77
43:1:2413:G:N1	43:1:2483:U:N3	2.17	0.77
61:Bc:88:HIS:CE1	61:Bc:95:SER:HB2	2.20	0.77
78:BI:170:ALA:HB1	78:BI:174:ALA:HA	1.66	0.77
85:2:1388:A:O2'	85:2:1389:G:OP2	2.03	0.77
29:AE:37:GLN:NE2	43:1:1273:C:O2	2.17	0.77
39:AO:269:PHE:HA	43:1:1640:C:H5'	1.66	0.77
43:1:1250:U:H2'	43:1:1251:C:H6	1.49	0.77
54:Bz:311:ARG:CZ	54:Bz:355:GLU:HB3	2.14	0.77
66:Bn:347:ASP:OD1	85:2:745:C:O2'	2.01	0.77
85:2:6:A:HO2'	85:2:7:G:H8	1.29	0.77
85:2:207:U:O2	85:2:239:G:N2	2.18	0.77
85:2:989:A:H2'	85:2:990:U:C6	2.19	0.77
13:Am:98:MET:HA	13:Am:101:GLN:HB3	1.66	0.77
18:Ar:193:ILE:HG22	86:Az:90:LEU:HD22	1.58	0.77
85:2:1133:C:N3	85:2:1485:G:N1	2.33	0.77
85:2:1170:A:O2'	85:2:1171:G:P	2.42	0.77
85:2:1434:G:C2	85:2:1435:U:N3	2.52	0.77
18:Ar:159:ILE:HG12	32:AH:129:HIS:ND1	2.00	0.77
33:AI:134:LYS:HD3	33:AI:149:ALA:HB1	1.67	0.77
43:1:48:A:H2	43:1:575:U:H3	1.29	0.77
43:1:1025:G:N2	43:1:1042:U:O2	2.18	0.77
51:Br:176:ILE:HG21	51:Br:197:GLY:HA2	1.65	0.77
67:Bo:51:ARG:NH2	85:2:471:C:OP1	2.18	0.77
72:Bv:68:GLN:O	72:Bv:72:ASP:HB2	1.84	0.77
85:2:48:C:N3	85:2:420:G:N1	2.32	0.77
85:2:1434:G:C2	85:2:1435:U:C2	2.73	0.77
85:2:1438:G:N2	85:2:1442:G:N2	2.32	0.77
85:2:1811:U:O4	85:2:1835:G:N2	2.17	0.77
22:Av:209:LYS:NZ	43:1:1020:C:OP1	2.18	0.77
24:Ax:51:ARG:NH2	43:1:528:G:OP2	2.18	0.77
43:1:2945:G:H2'	43:1:2946:A:H8	1.50	0.77
85:2:1177:U:C5	85:2:1178:G:C6	2.72	0.77
85:2:1178:G:N1	85:2:1179:A:N6	2.33	0.77
85:2:1526:A:N6	85:2:1532:G:O6	2.18	0.77
88:BK:77:ALA:HA	88:BK:92:ALA:CB	2.15	0.77
3:Ac:80:ILE:HG13	3:Ac:127:CYS:HB2	1.66	0.77
10:Aj:162:ARG:O	10:Aj:163:ARG:NH1	2.16	0.77
39:AO:146:LEU:HA	39:AO:149:MET:HE2	1.65	0.77
52:Bw:165:GLU:OE2	52:Bw:473:ARG:NH2	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ae:40:ALA:HB1	6:Ae:45:ILE:HD11	1.68	0.76
10:Aj:53:LEU:HD21	10:Aj:139:LEU:HB2	1.66	0.76
14:An:93:ARG:NH2	14:An:120:ARG:O	2.17	0.76
16:Ap:174:ARG:NH2	16:Ap:183:GLU:OE2	2.18	0.76
43:1:702:U:H2'	43:1:703:C:H6	1.50	0.76
43:1:1414:U:H2'	43:1:1415:G:H8	1.49	0.76
43:1:1596:G:H1	43:1:1612:G:H21	1.30	0.76
43:1:2380:G:N2	43:1:2741:C:O2	2.17	0.76
52:Bw:231:ARG:NH2	52:Bw:231:ARG:O	2.18	0.76
85:2:1188:A:H1'	85:2:1382:C:H41	1.49	0.76
85:2:1429:A:H2'	85:2:1430:C:C4'	2.13	0.76
39:AO:469:LEU:HD13	39:AO:484:LEU:HG	1.66	0.76
43:1:599:G:N2	43:1:611:A:OP2	2.13	0.76
44:3:72:G:H2'	44:3:73:C:H6	1.49	0.76
51:Br:146:LEU:HD13	51:Br:150:LYS:CE	2.13	0.76
52:Bw:150:LEU:O	52:Bw:154:LEU:CB	2.31	0.76
60:Ba:55:HIS:ND1	71:Bu:33:SER:OG	2.18	0.76
85:2:1172:C:C4	85:2:1173:C:N4	2.53	0.76
85:2:1433:A:O2'	85:2:1434:G:C8	2.38	0.76
85:2:1452:C:HO2'	85:2:1453:C:H6	1.32	0.76
87:Ah:32:LEU:CD1	87:Ah:109:ASN:OD1	2.32	0.76
39:AO:192:ASP:OD1	39:AO:193:SER:N	2.18	0.76
64:Bg:4:ARG:NH2	85:2:583:C:O2'	2.18	0.76
77:BE:191:ARG:NH2	77:BE:323:GLY:O	2.19	0.76
61:Bc:96:TYR:H	61:Bc:99:PHE:HD2	1.33	0.76
85:2:1424:G:C6	85:2:1456:G:C2	2.74	0.76
85:2:1458:C:HO2'	85:2:1459:A:H8	1.31	0.76
85:2:1516:G:N2	85:2:1519:A:OP2	2.16	0.76
18:Ar:137:TYR:HE2	18:Ar:246:LYS:HE3	1.50	0.76
34:AJ:64:VAL:CG1	34:AJ:85:LYS:HA	2.14	0.76
36:AL:29:ARG:NH2	43:1:1098:U:OP1	2.17	0.76
39:AO:335:ARG:HH12	43:1:1636:U:H5	1.31	0.76
40:AP:671:ALA:HB1	40:AP:704:ALA:HB2	1.68	0.76
43:1:426:A:N1	43:1:478:C:O2'	2.19	0.76
45:Bb:532:ILE:HD11	85:2:1049:G:H1'	1.65	0.76
85:2:1421:G:N2	85:2:1461:A:H61	1.83	0.76
6:Ae:134:GLU:O	6:Ae:135:PHE:CD2	2.37	0.76
40:AP:670:ALA:HB2	43:1:495:C:O3'	1.86	0.76
43:1:681:G:O6	43:1:704:U:O2	2.03	0.76
50:Bm:141:ARG:NH2	53:Bx:54:TRP:O	2.17	0.76
52:Bw:358:TYR:HB2	52:Bw:403:PHE:HA	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:585:G:N2	85:2:648:U:O4	2.13	0.76
85:2:969:A:N1	85:2:1711:C:O2'	2.17	0.76
88:BK:85:ALA:HB3	88:BK:88:ALA:CB	2.15	0.76
33:AI:100:ARG:HD2	33:AI:209:VAL:HG12	1.66	0.76
39:AO:56:TRP:CZ2	43:1:1570:C:H1'	2.20	0.76
52:Bw:279:GLU:O	52:Bw:281:ARG:NH2	2.19	0.76
85:2:43:G:H2'	85:2:44:C:C6	2.20	0.76
85:2:596:U:O2	85:2:634:G:O6	2.03	0.76
3:Ac:155:ARG:NH2	43:1:2938:C:OP1	2.17	0.76
11:Ak:47:PHE:N	43:1:2000:A:N3	2.33	0.76
43:1:812:G:N2	43:1:813:A:N1	2.34	0.76
43:1:2813:C:H2'	43:1:2814:A:H8	1.51	0.76
75:BC:46:LEU:HB3	75:BC:57:ILE:HG12	1.67	0.76
77:BE:132:LEU:HA	77:BE:135:THR:HG22	1.68	0.76
85:2:1107:U:H3	85:2:1535:G:H1	1.32	0.76
85:2:1391:A:H3'	85:2:1392:A:OP2	1.83	0.76
85:2:1589:A:H62	85:2:1648:A:H62	1.30	0.76
5:Ad:222:LYS:HE3	5:Ad:224:LYS:HD3	1.68	0.76
14:An:115:ARG:HH11	14:An:118:GLU:HA	1.49	0.76
22:Av:37:GLN:NE2	22:Av:118:SER:OG	2.19	0.76
32:AH:112:THR:O	32:AH:116:ASN:ND2	2.18	0.76
43:1:738:G:N1	43:1:813:A:N3	2.32	0.76
43:1:1185:G:H1	43:1:1268:G:H1	1.33	0.76
43:1:1864:C:H2'	43:1:1865:A:C8	2.20	0.76
85:2:207:U:N3	85:2:239:G:N1	2.28	0.76
15:Ao:91:LYS:NZ	43:1:2632:U:O2	2.19	0.76
85:2:241:U:H2'	85:2:242:G:H8	1.49	0.76
85:2:1136:A:N7	85:2:1471:A:N6	2.33	0.76
85:2:1458:C:O2'	85:2:1459:A:P	2.44	0.76
22:Av:112:ARG:HG3	22:Av:118:SER:HA	1.66	0.75
30:AF:222:MET:HG2	30:AF:223:ALA:H	1.51	0.75
43:1:1138:G:OP2	86:Az:28:PRO:HD3	1.85	0.75
51:Br:166:LEU:HD12	51:Br:169:TYR:H	1.52	0.75
58:BP:205:ALA:O	58:BP:209:ALA:HB2	1.85	0.75
73:By:77:ILE:HA	73:By:101:LYS:HA	1.68	0.75
85:2:1379:U:HO3'	85:2:1380:G:P	1.52	0.75
5:Ad:136:HIS:HD2	5:Ad:179:PRO:CB	1.91	0.75
41:AQ:393:ASN:HB3	41:AQ:396:GLU:H	1.51	0.75
51:Br:161:ARG:HH11	85:2:1670:U:H3	1.32	0.75
21:Au:41:SER:OG	21:Au:42:GLN:OE1	2.05	0.75
85:2:427:U:O4	85:2:453:G:O6	2.03	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1179:A:C2	85:2:1392:A:N1	2.54	0.75
85:2:1383:G:O2'	85:2:1384:G:C5'	2.34	0.75
48:Bi:167:ARG:HG3	50:Bm:145:ILE:HG23	1.66	0.75
2:Ab:62:SER:O	2:Ab:63:MET:CG	2.33	0.75
21:Au:88:ARG:HD3	43:1:435:A:P	2.27	0.75
33:AI:70:LEU:HD21	33:AI:72:ILE:HD13	1.68	0.75
41:AQ:236:ASN:OD1	41:AQ:237:THR:N	2.20	0.75
43:1:772:G:H2'	43:1:773:G:H8	1.52	0.75
43:1:2325:A:H2'	43:1:2326:A:C8	2.21	0.75
61:Bc:32:ARG:CZ	61:Bc:118:GLU:HG2	2.16	0.75
85:2:1131:G:N2	85:2:1486:U:O2	2.19	0.75
9:Ai:18:ARG:CB	43:1:1207:G:H4'	2.17	0.75
36:AL:57:CYS:SG	86:Az:54:ASN:ND2	2.58	0.75
43:1:21:C:O2'	43:1:704:U:OP1	2.04	0.75
43:1:423:G:O6	43:1:481:U:N3	2.20	0.75
43:1:543:A:H4'	43:1:544:G:H5'	1.67	0.75
43:1:729:G:O2'	43:1:2330:A:OP1	2.05	0.75
85:2:173:A:N7	85:2:345:G:H2'	2.01	0.75
85:2:1210:A:HO2'	85:2:1211:C:H6	1.32	0.75
12:Al:127:LYS:HD3	43:1:229:A:H5''	1.68	0.75
18:Ar:189:ILE:HG21	86:Az:94:LEU:HB3	1.67	0.75
31:AG:74:LYS:HB3	31:AG:75:PRO:HD2	1.69	0.75
36:AL:61:ASP:O	86:Az:17:GLN:CG	2.35	0.75
43:1:425:A:C8	43:1:480:U:H1'	2.22	0.75
45:Bb:11:ARG:HG3	45:Bb:15:ASN:HD22	1.51	0.75
60:Ba:75:LEU:HB2	60:Ba:185:VAL:HG11	1.68	0.75
61:Bc:332:TYR:OH	76:BD:258:GLU:OE2	2.04	0.75
85:2:472:G:H5''	85:2:478:G:H1	1.50	0.75
88:BK:85:ALA:HB3	88:BK:88:ALA:HB2	1.67	0.75
50:Bm:115:PRO:O	50:Bm:117:ASN:N	2.20	0.75
54:Bz:311:ARG:NH1	54:Bz:355:GLU:HG2	2.02	0.75
63:Be:15:ARG:HG3	63:Be:18:GLY:HA3	1.69	0.75
85:2:1208:C:O2'	85:2:1209:A:OP2	2.05	0.75
88:BK:129:ALA:O	88:BK:133:ALA:N	2.18	0.75
18:Ar:189:ILE:CG2	86:Az:94:LEU:O	2.34	0.75
26:AA:60:GLU:N	33:AI:71:ASP:OD2	2.14	0.75
61:Bc:313:GLU:HA	76:BD:251:PHE:HB2	1.69	0.75
62:Bd:440:THR:HG1	62:Bd:478:SER:HG	1.35	0.75
85:2:1424:G:N3	85:2:1456:G:N2	2.34	0.75
85:2:1458:C:O2'	85:2:1459:A:O5'	2.05	0.75
85:2:1759:A:H2'	85:2:1760:C:C6	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ae:56:PRO:O	6:Ae:108:ARG:NH1	2.19	0.74
7:Af:4:LYS:C	34:AJ:48:ARG:NH2	2.45	0.74
11:Ak:158:ARG:NE	16:Ap:148:ASN:OD1	2.16	0.74
21:Au:136:LYS:NZ	31:AG:78:SER:OG	2.19	0.74
43:1:2070:G:N1	43:1:2073:C:N3	2.35	0.74
51:Br:166:LEU:CD1	51:Br:169:TYR:N	2.49	0.74
51:Br:191:LYS:CD	51:Br:198:GLU:CD	2.52	0.74
52:Bw:310:MET:SD	52:Bw:338:ARG:NH1	2.59	0.74
62:Bd:366:LYS:HB2	62:Bd:383:LEU:HB3	1.67	0.74
85:2:929:C:H2'	85:2:930:A:H8	1.52	0.74
85:2:971:A:N6	85:2:1667:A:N7	2.35	0.74
85:2:1789:G:C6	85:2:1859:A:C6	2.74	0.74
87:Ah:27:ILE:HD12	87:Ah:111:LEU:HD12	1.68	0.74
17:Aq:22:ARG:O	43:1:1408:G:N2	2.20	0.74
57:BG:15:TRP:HA	85:2:1479:A:H5'	1.69	0.74
62:Bd:367:LYS:HZ2	62:Bd:380:TYR:HB3	1.52	0.74
73:By:80:GLU:OE1	73:By:100:HIS:NE2	2.18	0.74
85:2:1133:C:C2	85:2:1485:G:C2	2.75	0.74
85:2:1207:C:H41	85:2:1382:C:P	2.10	0.74
88:BK:268:ALA:CB	88:BK:277:ALA:HB2	2.11	0.74
16:Ap:176:LEU:HD23	16:Ap:176:LEU:H	1.52	0.74
56:Bt:78:ARG:NH2	85:2:1597:U:OP2	2.19	0.74
75:BC:88:ARG:NH2	85:2:479:A:OP1	2.19	0.74
85:2:457:U:O2	85:2:492:A:N7	2.20	0.74
85:2:993:G:N1	85:2:1034:A:N6	2.35	0.74
18:Ar:193:ILE:CB	86:Az:90:LEU:CD2	2.52	0.74
18:Ar:226:THR:N	43:1:958:C:OP1	2.13	0.74
41:AQ:418:LYS:HA	41:AQ:421:LYS:HE3	1.68	0.74
45:Bb:407:ARG:HA	45:Bb:410:PRO:HD2	1.68	0.74
85:2:55:C:N3	85:2:381:G:N2	2.36	0.74
6:Ae:46:ILE:HG13	6:Ae:49:GLY:H	1.51	0.74
7:Af:62:LYS:HG2	7:Af:66:HIS:NE2	2.01	0.74
14:An:87:ARG:NH2	43:1:3154:C:O2'	2.20	0.74
19:As:189:ALA:HB2	19:As:199:ILE:HG13	1.68	0.74
43:1:1185:G:H22	43:1:1268:G:N2	1.84	0.74
26:AA:48:ILE:HG22	30:AF:224:THR:N	2.01	0.74
43:1:1027:G:N2	43:1:1028:G:O2'	2.20	0.74
60:Ba:113:PRO:O	62:Bd:342:ARG:NE	2.20	0.74
85:2:489:A:H3'	85:2:490:G:H5'	1.69	0.74
16:Ap:140:GLN:HB3	16:Ap:198:VAL:HB	1.69	0.74
43:1:434:A:O2'	43:1:435:A:O5'	2.06	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:548:G:H2'	43:1:549:G:H8	1.52	0.74
43:1:2096:U:OP2	43:1:2101:A:N6	2.20	0.74
51:Br:149:LYS:HZ3	85:2:1013:A:H5'	1.51	0.74
85:2:401:A:H2'	85:2:402:A:C8	2.23	0.74
85:2:1187:G:O2'	85:2:1188:A:O4'	2.05	0.74
86:Az:20:TYR:HH	86:Az:51:LEU:HD21	1.34	0.74
86:Az:30:THR:HG23	86:Az:35:ARG:HG3	1.67	0.74
88:BK:219:ALA:CA	88:BK:254:ALA:CB	2.49	0.74
18:Ar:118:GLU:HG3	18:Ar:123:VAL:HG22	1.70	0.74
41:AQ:244:ASP:HB3	41:AQ:247:ILE:HD12	1.68	0.74
43:1:516:U:N3	43:1:523:A:N1	2.35	0.74
52:Bw:342:GLU:HA	52:Bw:345:VAL:HG12	1.70	0.74
53:Bx:17:GLY:HA3	54:Bz:385:ILE:HD11	1.69	0.74
65:Bj:287:SER:O	65:Bj:290:ASN:ND2	2.21	0.74
85:2:64:U:H2'	85:2:65:G:C8	2.22	0.74
85:2:927:C:O2	85:2:930:A:N6	2.20	0.74
85:2:1424:G:N1	85:2:1456:G:C2	2.56	0.74
85:2:1434:G:H1	85:2:1446:A:H61	0.82	0.74
45:Bb:11:ARG:NH2	45:Bb:514:VAL:O	2.21	0.74
85:2:29:G:H2'	85:2:30:G:C8	2.23	0.74
85:2:1183:G:HO2'	85:2:1184:C:H6	1.33	0.74
7:Af:10:LYS:HD2	7:Af:89:THR:HA	1.69	0.74
9:Ai:89:LYS:HB3	9:Ai:95:ASP:HA	1.69	0.74
10:Aj:140:ARG:NH1	43:1:3075:A:N7	2.36	0.74
16:Ap:192:ASN:O	16:Ap:194:ARG:NH2	2.21	0.74
21:Au:158:ASP:O	25:Ay:139:ARG:NH1	2.18	0.74
30:AF:204:LEU:HD11	33:AI:142:LEU:HB2	1.70	0.74
36:AL:61:ASP:O	86:Az:17:GLN:CD	2.31	0.74
43:1:1080:G:N2	43:1:1081:U:O4'	2.21	0.74
48:Bi:127:GLY:O	48:Bi:129:LYS:NZ	2.21	0.74
85:2:34:A:N6	85:2:555:G:H1'	2.03	0.74
85:2:1370:A:HO2'	85:2:1371:C:H6	1.34	0.74
85:2:1458:C:N4	85:2:1459:A:N6	2.34	0.74
3:Ac:222:GLY:HA3	43:1:2363:A:H4'	1.70	0.73
22:Av:133:ARG:HD3	22:Av:138:GLY:HA2	1.70	0.73
41:AQ:410:LEU:HD11	41:AQ:438:LYS:HG3	1.69	0.73
43:1:44:G:H2'	43:1:45:A:H8	1.53	0.73
43:1:175:A:H2'	43:1:176:A:C8	2.23	0.73
43:1:210:C:HO2'	43:1:242:A:HO2'	1.33	0.73
43:1:1647:U:O2'	43:1:1648:C:O5'	2.06	0.73
51:Br:166:LEU:CD1	51:Br:169:TYR:CA	2.66	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:Bj:210:THR:OG1	65:Bj:215:ASN:N	2.21	0.73
85:2:520:A:N6	89:Bk:87:VAL:CG1	2.50	0.73
21:Au:84:PRO:CD	21:Au:116:ILE:HD13	2.16	0.73
54:Bz:361:ARG:HG3	59:BF:9:ALA:HB2	1.70	0.73
65:Bj:310:ARG:NH2	85:2:1919:G:OP1	2.21	0.73
85:2:359:U:O2	85:2:368:G:N2	2.14	0.73
85:2:553:C:H2'	85:2:554:G:H8	1.54	0.73
87:Ah:121:TYR:HE1	87:Ah:126:TYR:CB	2.01	0.73
43:1:681:G:C6	43:1:704:U:O2	2.41	0.73
43:1:722:A:H61	43:1:2340:G:N2	1.86	0.73
43:1:1255:G:C1'	87:Ah:79:MET:SD	2.75	0.73
85:2:1189:C:HO2'	85:2:1190:C:H6	1.33	0.73
85:2:1401:A:HO2'	85:2:1402:U:H6	1.35	0.73
85:2:1468:C:O2'	85:2:1469:C:O4'	2.04	0.73
85:2:1706:A:N1	85:2:1714:G:O6	2.21	0.73
85:2:1766:G:H2'	85:2:1878:G:H22	1.54	0.73
9:Ai:84:VAL:HG23	9:Ai:117:ILE:HG12	1.70	0.73
13:Am:168:LYS:NZ	43:1:2765:C:O2	2.20	0.73
14:An:103:ASP:OD2	43:1:1443:A:N6	2.19	0.73
16:Ap:148:ASN:HB3	16:Ap:150:ARG:HD3	1.70	0.73
16:Ap:166:GLY:O	16:Ap:169:SER:OG	2.05	0.73
43:1:937:A:OP2	43:1:2382:A:O2'	2.06	0.73
47:Bh:318:ARG:NH1	85:2:1497:C:O2	2.21	0.73
63:Be:69:MET:HE3	63:Be:71:THR:HG21	1.70	0.73
85:2:210:G:O6	85:2:221:U:O2	2.07	0.73
43:1:1227:U:O2'	43:1:1237:A:OP1	2.04	0.73
43:1:2128:C:H2'	43:1:2129:A:H8	1.53	0.73
77:BE:270:ILE:HG23	77:BE:274:PHE:HB2	1.71	0.73
2:Ab:75:HIS:ND1	2:Ab:127:GLY:O	2.21	0.73
21:Au:89:PRO:HB2	21:Au:91:LYS:HB3	1.68	0.73
60:Ba:97:ALA:O	60:Ba:101:TRP:HB2	1.89	0.73
61:Bc:113:ARG:NH1	61:Bc:119:THR:HG22	2.02	0.73
85:2:985:U:H5''	85:2:986:G:C4	2.24	0.73
18:Ar:189:ILE:N	86:Az:94:LEU:O	2.21	0.73
43:1:255:U:H3'	43:1:256:U:H5'	1.70	0.73
43:1:1025:G:N1	43:1:1042:U:N3	2.35	0.73
43:1:1138:G:OP2	86:Az:28:PRO:CD	2.36	0.73
45:Bb:513:ASN:O	85:2:1104:C:N4	2.21	0.73
79:BJ:69:ALA:HB1	79:BJ:98:ALA:HB1	1.71	0.73
85:2:1429:A:O2'	85:2:1430:C:P	2.46	0.73
85:2:1438:G:N2	85:2:1442:G:C2	2.57	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1860:U:O2'	85:2:1861:A:O4'	2.07	0.73
21:Au:57:ILE:O	43:1:624:A:O2'	2.07	0.73
35:AK:82:LYS:NZ	43:1:2181:U:OP1	2.22	0.73
43:1:2002:G:O2'	43:1:2302:U:O4	2.07	0.73
43:1:2170:A:N6	43:1:2199:G:O2'	2.22	0.73
43:1:2376:C:H5'	43:1:2553:G:H21	1.53	0.73
48:Bi:134:ILE:O	48:Bi:185:LYS:HA	1.87	0.73
88:BK:33:ALA:HB3	88:BK:64:ALA:CB	2.18	0.73
19:As:121:ASN:OD1	19:As:128:ARG:NH1	2.21	0.73
35:AK:53:ARG:NH2	43:1:252:G:N7	2.35	0.73
14:An:100:ARG:NE	14:An:100:ARG:HA	2.04	0.73
41:AQ:322:THR:HG22	41:AQ:353:CYS:HB3	1.70	0.73
43:1:766:G:H2'	43:1:767:G:C8	2.24	0.73
43:1:1143:U:O2'	43:1:1145:C:OP2	2.05	0.73
73:By:70:ALA:HB2	73:By:78:SER:HB2	1.69	0.73
85:2:1385:C:O3'	85:2:1386:G:O5'	2.02	0.73
15:Ao:44:CYS:HB3	15:Ao:73:LEU:HD11	1.71	0.72
16:Ap:142:LYS:HZ1	16:Ap:194:ARG:HD2	1.54	0.72
21:Au:129:ARG:NH2	43:1:94:G:OP2	2.21	0.72
45:Bb:459:GLN:OE1	45:Bb:465:ARG:NH2	2.21	0.72
85:2:26:U:H3	85:2:910:G:H1	1.34	0.72
85:2:761:G:N1	85:2:809:G:O2'	2.20	0.72
85:2:1469:C:O2'	85:2:1470:G:O4'	2.05	0.72
16:Ap:174:ARG:HH22	16:Ap:213:ARG:HA	1.54	0.72
28:AC:40:ARG:NH2	43:1:2642:U:OP1	2.20	0.72
39:AO:113:PHE:O	39:AO:121:LYS:NZ	2.20	0.72
41:AQ:200:LYS:NZ	41:AQ:204:ASP:OD2	2.21	0.72
43:1:995:G:H4'	86:Az:61:MET:HA	0.82	0.72
43:1:1911:G:HO2'	43:1:1913:G:N2	1.87	0.72
43:1:2889:C:H2'	43:1:2890:G:H8	1.54	0.72
52:Bw:411:LYS:NZ	56:Bt:81:ASP:O	2.21	0.72
67:Bo:51:ARG:NH1	76:BD:324:SER:O	2.21	0.72
85:2:1408:C:O2'	85:2:1409:G:O4'	2.06	0.72
10:Aj:39:GLY:HA2	10:Aj:79:ILE:HA	1.70	0.72
43:1:1354:U:H2'	43:1:1355:U:C6	2.24	0.72
47:Bh:370:GLY:H	85:2:1600:A:H4'	1.54	0.72
61:Bc:252:MET:HE3	76:BD:152:ALA:HB1	1.70	0.72
62:Bd:367:LYS:HE2	62:Bd:403:GLY:CA	2.19	0.72
72:Bv:54:GLU:OE2	72:Bv:57:SER:OG	2.06	0.72
18:Ar:165:LYS:NZ	43:1:1313:A:OP1	2.21	0.72
43:1:140:C:O2'	43:1:141:U:OP2	2.06	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1013:C:H2'	43:1:1014:A:C8	2.24	0.72
43:1:2052:C:H42	43:1:2058:A:H61	1.34	0.72
43:1:3137:U:H2'	43:1:3138:G:H8	1.53	0.72
47:Bh:323:PRO:HA	47:Bh:361:TRP:HD1	1.54	0.72
51:Br:161:ARG:HD2	85:2:1669:C:N4	2.04	0.72
75:BC:66:ASP:HB3	75:BC:69:LYS:HB3	1.70	0.72
85:2:1178:G:N2	85:2:1179:A:C6	2.56	0.72
85:2:1430:C:O2'	85:2:1431:G:C8	2.39	0.72
85:2:1445:U:C2'	85:2:1446:A:C8	2.72	0.72
10:Aj:66:ASP:OD1	10:Aj:135:ARG:NH1	2.22	0.72
10:Aj:73:VAL:HG12	10:Aj:141:ILE:HG12	1.70	0.72
52:Bw:145:PHE:HE2	52:Bw:150:LEU:HD21	1.53	0.72
68:Bp:61:ARG:NH2	85:2:283:A:O3'	2.23	0.72
77:BE:377:SER:OG	77:BE:379:ASP:OD1	2.06	0.72
86:Az:34:HIS:CD2	86:Az:64:GLN:HE21	2.08	0.72
43:1:1215:U:O2'	43:1:1217:G:N7	2.22	0.72
44:3:32:C:O2'	44:3:60:G:O6	2.06	0.72
47:Bh:356:LYS:HG2	47:Bh:358:LEU:H	1.55	0.72
76:BD:194:LYS:NZ	76:BD:195:GLU:OE2	2.23	0.72
77:BE:62:LEU:O	77:BE:100:SER:OG	2.08	0.72
79:BJ:206:ALA:HB1	79:BJ:244:ALA:HB2	1.72	0.72
85:2:993:G:N1	85:2:1034:A:C6	2.58	0.72
34:AJ:68:PHE:CE2	34:AJ:78:ILE:HA	2.21	0.72
43:1:2604:U:H2'	43:1:2605:A:C8	2.25	0.72
85:2:460:C:H42	85:2:494:G:H1	1.37	0.72
85:2:1128:U:HO2'	85:2:1129:G:H8	1.38	0.72
85:2:1385:C:O3'	85:2:1386:G:OP1	1.99	0.72
85:2:1445:U:N3	85:2:1446:A:C5	2.57	0.72
2:Ab:151:ARG:NH2	43:1:925:A:OP1	2.21	0.72
36:AL:70:ASN:ND2	86:Az:80:ARG:CD	2.53	0.72
43:1:1184:U:H2'	43:1:1185:G:C8	2.25	0.72
85:2:1510:G:C6	85:2:1526:A:N1	2.58	0.72
86:Az:24:VAL:HG11	86:Az:70:VAL:HG22	1.70	0.72
16:Ap:128:ARG:NH2	16:Ap:190:SER:O	2.21	0.72
43:1:963:A:OP2	43:1:1343:G:N2	2.22	0.72
43:1:2180:G:HO2'	43:1:2709:A:HO2'	1.36	0.72
52:Bw:186:ASN:HB3	52:Bw:206:GLN:HG2	1.71	0.72
54:Bz:333:ARG:NH2	85:2:1130:C:OP1	2.21	0.72
39:AO:421:GLU:OE2	39:AO:422:GLN:NE2	2.22	0.72
61:Bc:109:VAL:HG23	61:Bc:110:ILE:HD12	1.71	0.72
71:Bu:13:ARG:HH22	77:BE:238:LEU:HD23	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1789:G:N1	85:2:1859:A:C6	2.57	0.72
2:Ab:196:LYS:NZ	43:1:2115:U:OP1	2.23	0.71
43:1:1529:U:O3'	43:1:1530:G:H4'	1.90	0.71
43:1:1552:G:H21	43:1:1897:A:H62	1.38	0.71
43:1:2022:G:N2	43:1:2023:U:O2	2.22	0.71
48:Bi:131:CYS:HB2	48:Bi:217:GLN:HB2	1.71	0.71
53:Bx:64:PRO:HA	53:Bx:67:LEU:HB3	1.72	0.71
67:Bo:37:LEU:HA	67:Bo:55:LYS:HZ2	1.55	0.71
85:2:1175:A:C6	85:2:1176:G:C6	2.77	0.71
88:BK:117:ALA:N	88:BK:121:ALA:HB2	2.05	0.71
11:Ak:120:GLU:OE2	16:Ap:172:ARG:NH1	2.22	0.71
36:AL:70:ASN:HD21	86:Az:80:ARG:CZ	2.02	0.71
43:1:1220:G:H2'	43:1:1221:C:C6	2.24	0.71
43:1:1899:U:O2'	43:1:1900:U:O5'	2.07	0.71
47:Bh:349:LEU:HD23	47:Bh:352:LEU:HD21	1.72	0.71
85:2:216:A:H2'	85:2:217:A:C8	2.25	0.71
85:2:995:A:H2'	85:2:996:C:C2	2.23	0.71
85:2:1789:G:C2	85:2:1859:A:C5	2.77	0.71
11:Ak:155:HIS:HB3	11:Ak:172:VAL:HB	1.72	0.71
43:1:1196:G:P	87:Ah:56:LYS:NZ	2.63	0.71
48:Bi:166:LEU:HD11	48:Bi:172:ASP:HB3	1.72	0.71
62:Bd:479:ARG:HH11	85:2:17:G:H3'	1.55	0.71
67:Bo:50:LYS:HD2	76:BD:326:ARG:H	1.54	0.71
85:2:939:A:H2'	85:2:940:G:H8	1.54	0.71
85:2:1413:C:H5	85:2:1459:A:H61	1.39	0.71
89:Bk:68:PRO:CG	89:Bk:96:HIS:HE1	2.03	0.71
40:AP:248:ALA:O	40:AP:251:ALA:N	2.22	0.71
43:1:137:U:N3	43:1:147:G:C6	2.57	0.71
43:1:858:U:OP1	66:Bn:412:ARG:NH1	2.23	0.71
43:1:2928:A:OP2	43:1:2929:A:N6	2.23	0.71
54:Bz:311:ARG:CD	54:Bz:355:GLU:CA	2.67	0.71
43:1:963:A:H2'	43:1:964:A:C8	2.25	0.71
43:1:2176:A:H2'	43:1:2177:G:C8	2.25	0.71
43:1:2895:G:H2'	43:1:2896:A:C8	2.25	0.71
85:2:647:U:O2	85:2:748:A:N6	2.23	0.71
86:Az:34:HIS:HD2	86:Az:64:GLN:HE21	1.39	0.71
3:Ac:205:MET:HE3	43:1:2808:C:H1'	1.71	0.71
25:Ay:45:ASP:O	25:Ay:48:GLN:NE2	2.24	0.71
43:1:88:C:H2'	43:1:89:C:H5'	1.73	0.71
43:1:2062:G:HO2'	43:1:2063:G:H8	1.38	0.71
44:3:22:C:N4	44:3:23:G:O6	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:Bh:336:ASP:O	47:Bh:345:ARG:NH2	2.23	0.71
61:Bc:206:ARG:O	61:Bc:209:ARG:NH1	2.23	0.71
77:BE:341:CYS:SG	77:BE:342:GLY:N	2.63	0.71
21:Au:145:GLU:HA	25:Ay:67:LEU:HG	1.72	0.71
39:AO:306:ILE:HD11	39:AO:321:LEU:HD22	1.73	0.71
43:1:129:A:C6	43:1:130:A:N6	2.58	0.71
43:1:2493:U:O2	43:1:2527:A:N7	2.24	0.71
43:1:2604:U:H2'	43:1:2605:A:H8	1.56	0.71
55:BA:56:LYS:O	55:BA:59:GLN:NE2	2.23	0.71
61:Bc:180:ILE:HG12	61:Bc:196:THR:HG23	1.72	0.71
62:Bd:367:LYS:HE3	62:Bd:380:TYR:CE2	2.22	0.71
73:By:86:LEU:HD11	73:By:90:GLY:HA2	1.72	0.71
85:2:1167:A:C2	85:2:1168:G:C2	2.78	0.71
85:2:1438:G:HO2'	85:2:1439:U:H6	1.37	0.71
4:AD:134:LYS:NZ	4:AD:151:ARG:O	2.24	0.71
34:AJ:58:VAL:O	34:AJ:65:GLU:HA	1.90	0.71
39:AO:126:TYR:HA	39:AO:129:LEU:HD12	1.72	0.71
39:AO:268:GLN:O	43:1:1639:C:O2'	2.07	0.71
43:1:1557:G:H1	43:1:1886:U:H3	1.37	0.71
49:Bl:81:GLU:HA	49:Bl:84:ASP:HB2	1.73	0.71
64:Bg:51:VAL:HG22	64:Bg:60:ILE:HG12	1.73	0.71
85:2:241:U:H2'	85:2:242:G:C8	2.26	0.71
85:2:1203:U:O2'	85:2:1204:A:H5''	1.91	0.71
85:2:1391:A:HO2'	85:2:1392:A:H8	0.75	0.71
85:2:1594:A:H2'	85:2:1595:A:C8	2.25	0.71
21:Au:47:VAL:HG21	21:Au:50:LYS:HD2	1.73	0.71
41:AQ:404:LEU:HA	41:AQ:407:ILE:HG13	1.73	0.71
43:1:731:C:H2'	43:1:732:A:H8	1.55	0.71
61:Bc:232:THR:HG21	76:BD:166:VAL:HG22	1.71	0.71
85:2:396:G:O6	85:2:405:C:N4	2.24	0.71
85:2:1209:A:HO2'	85:2:1210:A:H8	1.39	0.71
88:BK:50:ALA:H	88:BK:54:ALA:HB2	1.54	0.71
89:Bk:68:PRO:CB	89:Bk:96:HIS:HE1	2.03	0.71
7:Af:20:ALA:HB2	7:Af:27:LEU:HD23	1.71	0.71
11:Ak:59:ASN:HD21	11:Ak:148:ARG:H	1.39	0.71
20:At:93:SER:O	25:Ay:36:ASN:ND2	2.24	0.71
40:AP:445:ALA:H	40:AP:449:ALA:HB2	1.55	0.71
43:1:1928:A:O2'	43:1:1929:A:OP1	2.07	0.71
43:1:2487:G:H2'	43:1:2488:G:C8	2.26	0.71
46:Bf:58:LYS:HG2	46:Bf:84:GLN:HG2	1.72	0.71
9:Ai:80:LYS:HB2	9:Ai:125:PRO:HD2	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Ay:73:LEU:CD1	25:Ay:124:ARG:HH12	2.04	0.70
33:Al:116:PHE:HB2	33:Al:207:ASP:HB3	1.71	0.70
34:Aj:68:PHE:CD2	34:Aj:78:ILE:CA	2.53	0.70
50:Bm:77:ARG:NH1	50:Bm:125:ASN:HD22	1.86	0.70
73:By:80:GLU:HB2	73:By:100:HIS:CD2	2.26	0.70
77:BE:316:THR:HG23	77:BE:317:LEU:HD12	1.72	0.70
85:2:513:U:O2	85:2:530:A:N7	2.24	0.70
85:2:705:G:H2'	85:2:706:A:H8	1.55	0.70
85:2:979:A:H2'	85:2:980:G:H8	1.56	0.70
85:2:1453:C:HO2'	85:2:1454:C:H6	1.35	0.70
85:2:1457:C:O2'	85:2:1458:C:H6	1.56	0.70
19:As:168:ASP:HB3	19:As:171:ARG:HB2	1.73	0.70
40:AP:635:ALA:HB3	40:AP:643:ALA:HB2	1.71	0.70
43:1:137:U:O4	43:1:147:G:O6	2.09	0.70
43:1:488:G:O2'	43:1:489:U:O5'	2.09	0.70
43:1:1003:G:O2'	43:1:1063:G:O6	2.07	0.70
43:1:1671:G:O6	43:1:1872:A:N1	2.25	0.70
44:3:46:G:N3	44:3:49:C:N4	2.38	0.70
52:Bw:210:VAL:HA	52:Bw:401:GLY:O	1.89	0.70
71:Bu:52:GLU:HG2	71:Bu:90:LEU:HD22	1.73	0.70
88:BK:59:ALA:HA	88:BK:62:ALA:HB3	1.73	0.70
7:Af:67:GLN:HE22	43:1:3047:C:H1'	1.55	0.70
17:Aq:76:ASN:ND2	86:Az:87:HIS:O	2.24	0.70
17:Aq:80:ASN:HD21	18:Ar:150:GLN:HG3	1.56	0.70
20:At:99:PHE:HD2	20:At:101:VAL:H	1.38	0.70
33:Al:58:GLN:HG3	33:Al:62:ARG:HB3	1.73	0.70
37:AM:95:LYS:HA	37:AM:98:LEU:HD12	1.73	0.70
39:AO:307:GLN:HE21	39:AO:339:VAL:HG12	1.56	0.70
41:AQ:165:ILE:HA	41:AQ:168:LYS:HD2	1.73	0.70
43:1:1255:G:C2'	87:Ah:79:MET:SD	2.79	0.70
43:1:1458:C:HO2'	43:1:1942:C:HO2'	1.23	0.70
43:1:1599:A:H5'	43:1:1611:G:H21	1.56	0.70
43:1:2260:C:HO2'	85:2:1768:A:HO2'	1.38	0.70
44:3:2:A:HO2'	44:3:3:A:H8	1.37	0.70
45:Bb:424:ARG:HG2	45:Bb:435:THR:HG23	1.71	0.70
47:Bh:323:PRO:HA	47:Bh:361:TRP:CD1	2.25	0.70
53:Bx:36:ARG:HA	85:2:1622:C:H5'	1.72	0.70
85:2:43:G:O6	85:2:546:U:O4	2.07	0.70
85:2:470:G:H1	85:2:483:G:H22	1.40	0.70
85:2:559:G:N7	89:Bk:15:LYS:N	2.39	0.70
85:2:1849:U:H4'	85:2:1850:U:OP1	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ab:99:LYS:HG3	2:Ab:101:PRO:HD3	1.74	0.70
85:2:937:G:N1	85:2:1687:G:OP2	2.23	0.70
85:2:1510:G:O6	85:2:1526:A:N1	2.25	0.70
85:2:1911:G:H2'	85:2:1912:G:H8	1.56	0.70
6:Ae:18:LEU:HD12	30:Af:193:LYS:HD2	1.73	0.70
13:Am:98:MET:O	13:Am:102:PHE:N	2.20	0.70
18:Ar:186:GLN:HA	86:Az:97:SER:OG	1.91	0.70
20:At:20:LEU:HA	25:Ay:92:GLN:HE22	1.56	0.70
39:AO:334:ILE:HB	43:1:1637:C:H41	1.56	0.70
68:Bp:32:ARG:CB	89:Bk:8:ILE:HD11	2.22	0.70
85:2:991:A:HO2'	85:2:992:U:H6	1.36	0.70
85:2:1134:U:O2	85:2:1478:C:N4	2.24	0.70
85:2:1613:G:O6	85:2:1623:G:N2	2.25	0.70
86:Az:61:MET:HG2	86:Az:62:ILE:HG13	1.73	0.70
89:Bk:68:PRO:HG3	89:Bk:96:HIS:HE1	1.52	0.70
89:Bk:68:PRO:HG3	89:Bk:96:HIS:NE2	2.07	0.70
9:Ai:18:ARG:HB3	43:1:1207:G:C4'	2.21	0.70
34:AJ:66:GLU:HB3	34:AJ:81:MET:O	1.91	0.70
40:AP:729:ALA:HA	40:AP:732:ALA:HB3	1.73	0.70
47:Bh:311:ARG:HG3	47:Bh:406:ARG:HH12	1.55	0.70
76:BD:342:LYS:HE2	76:BD:347:ALA:HA	1.74	0.70
85:2:1413:C:H5	85:2:1459:A:N6	1.89	0.70
4:AD:146:LYS:HE2	43:1:2645:C:H5'	1.74	0.70
11:Ak:155:HIS:HE1	16:Ap:145:VAL:HG11	1.56	0.70
22:Av:112:ARG:NH2	22:Av:114:GLY:O	2.25	0.70
28:AC:38:GLU:HG2	28:AC:53:THR:HA	1.74	0.70
34:AJ:55:GLN:NE2	34:AJ:69:ASP:OD1	2.22	0.70
39:AO:157:SER:OG	39:AO:158:SER:N	2.21	0.70
43:1:1553:U:O2	43:1:1896:A:N6	2.24	0.70
43:1:1906:U:O4	43:1:1924:G:O6	2.08	0.70
85:2:187:C:H2'	85:2:188:G:C8	2.27	0.70
85:2:517:A:H61	85:2:526:G:H1'	1.54	0.70
88:BK:89:ALA:HB3	88:BK:120:ALA:HB1	1.73	0.70
43:1:561:C:H2'	43:1:562:U:H6	1.56	0.70
43:1:600:U:H3	43:1:611:A:H62	1.39	0.70
43:1:1004:U:H2'	43:1:1005:A:H8	1.56	0.70
43:1:3050:C:O2'	43:1:3051:U:O4'	2.10	0.70
51:Br:136:VAL:HG22	51:Br:136:VAL:O	1.92	0.70
61:Bc:88:HIS:ND1	61:Bc:94:THR:O	2.24	0.70
85:2:603:G:N2	85:2:628:G:N7	2.40	0.70
85:2:1790:G:N7	85:2:1791:A:N6	2.40	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ab:170:GLU:OE1	2:Ab:170:GLU:N	2.24	0.70
18:Ar:118:GLU:CD	18:Ar:123:VAL:HG22	2.17	0.70
21:Au:92:VAL:HG23	21:Au:93:GLY:H	1.56	0.70
28:AC:27:ARG:HH11	43:1:2644:A:H61	1.40	0.70
39:AO:376:MET:HG3	39:AO:392:MET:HB2	1.73	0.70
41:AQ:442:ASN:O	41:AQ:443:ASN:ND2	2.24	0.70
43:1:137:U:C4	43:1:147:G:O6	2.45	0.70
85:2:1388:A:C2'	85:2:1389:G:OP2	2.23	0.70
17:Aq:81:ARG:NH1	43:1:1146:G:O3'	2.24	0.70
41:AQ:287:LEU:HD13	41:AQ:309:VAL:HG11	1.73	0.70
43:1:714:C:H2'	43:1:715:C:C6	2.27	0.70
43:1:1323:A:H3'	43:1:1324:G:H8	1.54	0.70
43:1:2543:A:H2'	43:1:2544:G:H8	1.57	0.70
43:1:2945:G:H2'	43:1:2946:A:C8	2.27	0.70
85:2:691:A:N3	85:2:783:G:O2'	2.24	0.70
85:2:1165:C:O2'	85:2:1166:A:P	2.50	0.70
88:BK:80:ALA:CB	88:BK:92:ALA:HB2	2.17	0.70
9:Ai:87:TYR:HB3	9:Ai:117:ILE:HD11	1.73	0.69
32:AH:105:GLU:OE1	32:AH:105:GLU:N	2.25	0.69
43:1:306:C:N4	43:1:486:U:O2'	2.25	0.69
64:Bg:45:TYR:HB3	64:Bg:69:ASN:HD21	1.57	0.69
85:2:1422:G:O2'	85:2:1423:U:P	2.50	0.69
36:AL:61:ASP:O	86:Az:17:GLN:HB2	1.93	0.69
43:1:766:G:H2'	43:1:767:G:H8	1.57	0.69
43:1:1878:U:H1'	43:1:1879:U:H5	1.57	0.69
85:2:321:G:H2'	85:2:322:A:H8	1.56	0.69
85:2:621:G:H2'	85:2:622:C:C6	2.27	0.69
85:2:623:G:H2'	85:2:624:G:C8	2.27	0.69
85:2:1441:G:O3'	85:2:1442:G:P	2.51	0.69
86:Az:30:THR:CG2	86:Az:35:ARG:HE	2.05	0.69
39:AO:407:LEU:HD13	39:AO:443:ILE:HG12	1.72	0.69
43:1:1871:A:HO2'	43:1:1872:A:H8	1.38	0.69
46:Bf:15:LEU:HD23	46:Bf:89:ILE:HG23	1.73	0.69
46:Bf:95:ALA:HB3	46:Bf:114:GLU:HG3	1.74	0.69
67:Bo:6:ARG:HD2	85:2:395:G:H5''	1.73	0.69
67:Bo:54:LEU:O	76:BD:333:LYS:NZ	2.25	0.69
77:BE:133:GLN:NE2	77:BE:155:ILE:O	2.25	0.69
79:BJ:76:ALA:HB1	79:BJ:79:ALA:HB3	1.72	0.69
85:2:224:A:H3'	85:2:225:G:H3'	1.74	0.69
85:2:1855:G:H1'	85:2:1856:C:H5'	1.73	0.69
89:Bk:68:PRO:HB3	89:Bk:96:HIS:HE1	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:Au:35:ILE:HG12	21:Au:47:VAL:CG1	2.21	0.69
22:Av:64:PRO:HD3	22:Av:80:LYS:HG2	1.72	0.69
26:AA:37:HIS:HE1	33:Al:59:GLN:HE22	1.40	0.69
39:AO:266:ALA:O	39:AO:274:TYR:OH	2.10	0.69
43:1:1325:C:N4	43:1:1329:U:H3	1.89	0.69
43:1:2455:A:H2'	43:1:2456:C:C6	2.28	0.69
47:Bh:311:ARG:O	47:Bh:406:ARG:NH1	2.25	0.69
52:Bw:382:ARG:HB3	52:Bw:387:VAL:HG21	1.73	0.69
85:2:166:G:H2'	85:2:167:U:C6	2.27	0.69
85:2:420:G:H2'	85:2:421:C:C6	2.28	0.69
85:2:559:G:N7	89:Bk:14:GLU:C	2.50	0.69
85:2:1128:U:O2'	85:2:1129:G:H8	1.75	0.69
2:Ab:203:LYS:NZ	43:1:2116:G:OP2	2.24	0.69
41:AQ:124:ARG:NH1	41:AQ:158:ASP:OD2	2.26	0.69
43:1:783:A:N3	43:1:2701:C:O2'	2.25	0.69
43:1:1359:U:O2	43:1:1398:U:N3	2.20	0.69
43:1:2022:G:N2	43:1:2036:A:H62	1.88	0.69
43:1:2381:C:H2'	43:1:2382:A:C8	2.28	0.69
73:By:52:ASN:HD21	73:By:117:HIS:HA	1.56	0.69
78:Bl:245:ALA:HB3	85:2:1804:C:H2'	1.73	0.69
85:2:1568:C:H2'	85:2:1569:U:C6	2.27	0.69
11:Ak:70:ALA:HB1	11:Ak:77:ALA:HB2	1.72	0.69
43:1:1261:G:H2'	43:1:1262:C:C6	2.28	0.69
62:Bd:423:ARG:NH2	62:Bd:467:GLY:O	2.26	0.69
85:2:1436:A:HO2'	85:2:1437:A:H8	1.41	0.69
9:Ai:31:PRO:HG3	43:1:1210:G:C6	2.17	0.69
21:Au:149:ASP:OD1	21:Au:153:GLY:N	2.23	0.69
22:Av:170:GLY:O	22:Av:175:GLY:N	2.24	0.69
22:Av:178:ARG:HD3	43:1:1018:G:C5'	2.11	0.69
26:AA:55:LYS:HG2	26:AA:56:ARG:H	1.57	0.69
41:AQ:277:GLU:HB3	41:AQ:316:ARG:HH12	1.57	0.69
43:1:273:C:N3	43:1:299:U:O4	2.25	0.69
43:1:1148:U:N3	43:1:1305:A:N6	2.23	0.69
43:1:1909:G:N2	43:1:1911:G:OP1	2.25	0.69
43:1:3038:G:H2'	43:1:3039:A:H8	1.57	0.69
49:Bl:89:VAL:HA	49:Bl:94:HIS:HB3	1.75	0.69
61:Bc:183:LEU:HB2	61:Bc:184:LEU:HD12	1.74	0.69
63:Be:94:VAL:HG23	63:Be:95:LYS:H	1.55	0.69
85:2:1044:U:H2'	85:2:1550:C:H41	1.58	0.69
85:2:1067:U:O2'	85:2:1093:A:N7	2.24	0.69
86:Az:27:LEU:H	86:Az:28:PRO:HD3	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
87:Ah:121:TYR:CE1	87:Ah:126:TYR:CA	2.76	0.69
3:Ac:82:VAL:HG13	3:Ac:274:ASN:H	1.56	0.69
5:Ad:125:ARG:HD2	43:1:1401:G:H5'	1.73	0.69
5:Ad:127:GLN:HE22	5:Ad:270:ASN:HB3	1.57	0.69
6:Ae:151:HIS:O	6:Ae:153:ARG:NH1	2.24	0.69
10:Aj:85:LYS:NZ	43:1:1289:C:OP2	2.26	0.69
11:Ak:117:ASP:OD2	16:Ap:192:ASN:ND2	2.25	0.69
12:Al:154:HIS:HB2	40:AP:247:ALA:HB2	1.75	0.69
18:Ar:207:ALA:C	18:Ar:232:GLU:HG3	2.17	0.69
43:1:204:G:N3	43:1:219:C:O2'	2.24	0.69
43:1:731:C:H2'	43:1:732:A:C8	2.28	0.69
43:1:1026:U:H2'	43:1:1027:G:C8	2.28	0.69
43:1:1177:A:OP2	43:1:1275:A:N6	2.25	0.69
43:1:2120:A:N6	43:1:2131:G:O2'	2.26	0.69
43:1:2406:C:H2'	43:1:2407:A:H8	1.58	0.69
46:Bf:29:ARG:NH2	47:Bh:343:ASP:OD2	2.25	0.69
47:Bh:330:VAL:HG12	47:Bh:365:CYS:HB2	1.74	0.69
48:Bi:193:GLN:O	48:Bi:198:SER:OG	2.10	0.69
52:Bw:430:TYR:HB2	52:Bw:462:TYR:HE1	1.57	0.69
54:Bz:311:ARG:CZ	54:Bz:355:GLU:CA	2.70	0.69
69:Bq:207:ARG:NH1	85:2:659:G:OP1	2.22	0.69
72:Bv:125:ALA:HA	72:Bv:128:ARG:HE	1.58	0.69
77:BE:382:ASP:HA	77:BE:385:PHE:HB3	1.75	0.69
84:BL:33:ALA:O	84:BL:37:ALA:HB2	1.93	0.69
85:2:64:U:H2'	85:2:65:G:H8	1.57	0.69
85:2:1170:A:N1	85:2:1401:A:C6	2.61	0.69
85:2:1406:G:HO2'	85:2:1407:G:H5'	1.55	0.69
85:2:1434:G:N2	85:2:1435:U:O2	2.26	0.69
85:2:1610:A:N6	85:2:1624:G:N7	2.41	0.69
85:2:1611:A:OP2	85:2:1624:G:N2	2.25	0.69
85:2:1629:A:O2'	85:2:1632:C:N4	2.26	0.69
12:Al:247:LYS:NZ	43:1:2707:G:OP1	2.24	0.69
14:An:115:ARG:NH1	14:An:117:ASN:O	2.26	0.69
22:Av:63:PHE:HA	22:Av:80:LYS:HB2	1.74	0.69
33:AI:47:VAL:O	33:AI:51:GLN:HG2	1.93	0.69
34:AJ:67:ALA:HA	34:AJ:82:ILE:CD1	2.16	0.69
43:1:44:G:H2'	43:1:45:A:C8	2.28	0.69
43:1:722:A:N6	43:1:2340:G:H21	1.89	0.69
43:1:1118:G:OP1	86:Az:32:LYS:HG3	1.92	0.69
43:1:2265:G:O2'	43:1:2267:A:N6	2.22	0.69
43:1:2560:U:O2'	43:1:2725:C:OP2	2.11	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2837:C:O2'	43:1:3043:A:O2'	2.10	0.69
54:Bz:353:ARG:NH1	54:Bz:363:ASP:OD2	2.26	0.69
57:BG:47:LYS:O	57:BG:50:ALA:C	2.35	0.69
61:Bc:193:ARG:NH2	84:BL:7:ALA:O	2.25	0.69
85:2:1789:G:N1	85:2:1859:A:C5	2.61	0.69
1:Aa:99:THR:OG1	2:Ab:123:ARG:NH1	2.21	0.69
10:Aj:40:GLN:HG2	10:Aj:41:VAL:HG12	1.75	0.69
14:An:76:ILE:HA	14:An:80:LEU:HD12	1.74	0.69
33:Al:157:LEU:HB2	33:Al:200:TYR:CE1	2.28	0.69
43:1:175:A:OP2	43:1:190:G:N2	2.21	0.69
43:1:1008:G:H2'	43:1:1009:C:H6	1.57	0.69
43:1:1600:A:H1'	43:1:1601:U:H5'	1.75	0.69
43:1:2798:U:O2'	43:1:2802:U:OP1	2.09	0.69
49:Bl:118:SER:O	49:Bl:122:HIS:ND1	2.15	0.69
61:Bc:32:ARG:NH2	61:Bc:118:GLU:HG2	2.07	0.69
85:2:1206:G:O2'	85:2:1207:C:H5'	1.93	0.69
85:2:1425:U:O3'	85:2:1426:G:O5'	2.10	0.69
85:2:1438:G:O2'	85:2:1439:U:H6	1.76	0.69
85:2:1789:G:O6	85:2:1859:A:N6	2.26	0.69
88:BK:83:ALA:HB3	88:BK:88:ALA:CB	2.22	0.69
43:1:2949:C:H2'	43:1:2950:A:C8	2.27	0.68
51:Br:191:LYS:CE	51:Br:198:GLU:CD	2.66	0.68
64:Bg:100:TYR:H	64:Bg:128:PHE:HB2	1.58	0.68
85:2:777:G:H21	85:2:799:A:H62	1.39	0.68
85:2:808:C:O2'	85:2:894:A:N1	2.26	0.68
85:2:875:C:N4	89:Bk:2:PRO:HB3	2.08	0.68
10:Aj:162:ARG:NH2	43:1:1161:C:O5'	2.26	0.68
20:At:52:TYR:OH	25:Ay:85:ASN:ND2	2.26	0.68
43:1:455:A:H5'	43:1:473:A:H1'	1.73	0.68
43:1:1322:A:H2'	43:1:1323:A:C8	2.28	0.68
48:Bi:134:ILE:HG23	48:Bi:214:TYR:HB3	1.75	0.68
50:Bm:77:ARG:NH2	53:Bx:51:VAL:O	2.26	0.68
52:Bw:183:LEU:HD22	52:Bw:226:LEU:HG	1.75	0.68
52:Bw:461:ILE:HA	52:Bw:464:LEU:HB3	1.75	0.68
62:Bd:354:TYR:HB3	62:Bd:355:ARG:HE	1.57	0.68
76:BD:289:TYR:HA	76:BD:292:SER:HB3	1.73	0.68
85:2:1113:U:O2	85:2:1502:G:N2	2.22	0.68
85:2:1445:U:O2	85:2:1446:A:N7	1.91	0.68
85:2:1512:C:N3	85:2:1524:G:N1	2.31	0.68
88:BK:66:ALA:CB	88:BK:95:ALA:HA	2.22	0.68
20:At:4:ARG:NH1	43:1:154:U:OP1	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:11:ARG:HH11	21:AU:13:TRP:HB2	1.59	0.68
34:AJ:64:VAL:HG22	34:AJ:85:LYS:HB3	1.73	0.68
40:AP:606:ALA:HA	40:AP:609:ALA:HB3	1.74	0.68
43:1:82:G:N2	43:1:97:A:OP2	2.25	0.68
47:Bh:422:ARG:NH2	85:2:1695:A:OP1	2.26	0.68
49:Bl:50:GLN:HG3	49:Bl:55:ILE:HG22	1.74	0.68
66:Bn:397:THR:OG1	66:Bn:398:ASP:OD1	2.11	0.68
78:BI:207:ALA:HA	85:2:1832:A:H5''	1.75	0.68
85:2:979:A:H2'	85:2:980:G:C8	2.28	0.68
85:2:1178:G:H22	85:2:1393:G:H1	0.73	0.68
85:2:1214:G:HO2'	85:2:1215:A:H8	1.39	0.68
85:2:1385:C:HO3'	85:2:1386:G:P	1.43	0.68
9:AI:140:ILE:O	9:AI:144:ASN:ND2	2.26	0.68
40:AP:445:ALA:HB3	40:AP:448:ALA:HB3	1.75	0.68
43:1:850:G:N7	43:1:869:G:N2	2.40	0.68
43:1:903:G:C6	43:1:904:G:O6	2.46	0.68
52:Bw:147:GLU:HG3	52:Bw:151:LYS:HZ1	1.57	0.68
85:2:274:G:H2'	85:2:275:U:C6	2.27	0.68
85:2:985:U:O2	85:2:1036:A:N6	2.18	0.68
85:2:1087:U:OP1	85:2:1100:G:N2	2.25	0.68
85:2:1654:G:O2'	85:2:1681:A:N6	2.27	0.68
87:Ah:121:TYR:HD1	87:Ah:126:TYR:HA	1.55	0.68
6:Ae:155:PHE:CD2	6:Ae:155:PHE:O	2.47	0.68
30:AF:202:GLU:HA	30:AF:205:LYS:HB2	1.74	0.68
39:AO:344:TYR:HB2	39:AO:353:ALA:HB2	1.75	0.68
41:AQ:468:ARG:HH11	41:AQ:471:PRO:HG3	1.56	0.68
43:1:1208:G:H2'	43:1:1209:U:C5	2.28	0.68
43:1:2408:A:H61	43:1:2488:G:H1	0.72	0.68
43:1:2431:G:N2	43:1:2432:G:O6	2.26	0.68
85:2:43:G:H2'	85:2:44:C:H6	1.58	0.68
85:2:705:G:H2'	85:2:706:A:C8	2.28	0.68
86:Az:74:GLU:OE1	86:Az:74:GLU:N	2.23	0.68
30:AF:204:LEU:HD22	30:AF:208:ALA:HB2	1.74	0.68
40:AP:469:ALA:O	40:AP:473:ALA:CB	2.41	0.68
43:1:822:C:H2'	43:1:823:G:C8	2.28	0.68
43:1:1852:C:H1'	43:1:1853:G:H5'	1.76	0.68
43:1:2375:C:O2'	43:1:2553:G:N2	2.26	0.68
43:1:2889:C:H2'	43:1:2890:G:C8	2.28	0.68
43:1:2930:A:H5''	43:1:3083:G:H1	1.59	0.68
71:Bu:58:LYS:HG2	85:2:838:C:H3'	1.75	0.68
85:2:939:A:H2'	85:2:940:G:C8	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1803:C:N3	85:2:1843:G:N2	2.40	0.68
21:Au:139:PRO:HA	31:AG:78:SER:HB3	1.76	0.68
22:Av:41:ARG:HH11	22:Av:43:ALA:HB3	1.58	0.68
43:1:512:G:N2	43:1:525:U:O2	2.22	0.68
43:1:990:U:H1'	43:1:991:C:H5	1.58	0.68
43:1:1083:U:H2'	43:1:1084:G:H8	1.58	0.68
43:1:1357:U:H2'	43:1:1358:G:H8	1.58	0.68
43:1:1621:C:O2'	43:1:1622:A:O5'	2.09	0.68
43:1:1942:C:H4'	43:1:1943:A:H5'	1.75	0.68
48:Bi:177:GLU:OE1	50:Bm:148:ARG:NH2	2.26	0.68
48:Bi:199:LYS:HA	48:Bi:202:PHE:HB3	1.74	0.68
68:Bp:32:ARG:HG3	89:Bk:8:ILE:CD1	2.24	0.68
77:BE:175:VAL:HG22	77:BE:308:ALA:HB1	1.75	0.68
79:BJ:345:ALA:O	79:BJ:349:ALA:HB3	1.92	0.68
85:2:1170:A:O2'	85:2:1171:G:OP2	2.12	0.68
85:2:1806:U:H1'	85:2:1807:G:C8	2.29	0.68
17:Aq:94:SER:H	32:AH:137:GLN:HE22	1.40	0.68
24:Ax:49:ALA:HB2	24:Ax:97:ALA:HB2	1.76	0.68
38:AN:122:LYS:HA	38:AN:125:ILE:HD12	1.75	0.68
41:AQ:277:GLU:HB3	41:AQ:316:ARG:NH1	2.09	0.68
43:1:1105:G:N1	43:1:1109:A:OP1	2.17	0.68
43:1:1285:A:H2'	43:1:1286:G:H8	1.59	0.68
43:1:1964:U:O4	43:1:1965:A:N6	2.27	0.68
61:Bc:170:PHE:HA	61:Bc:174:ILE:HD13	1.75	0.68
85:2:23:G:H2'	85:2:24:A:C8	2.28	0.68
85:2:560:A:H2'	85:2:564:G:H8	1.56	0.68
85:2:1178:G:N2	85:2:1179:A:C4	2.62	0.68
85:2:1187:G:H3'	85:2:1188:A:C5'	2.23	0.68
85:2:1740:U:H2'	85:2:1741:G:H8	1.58	0.68
18:Ar:193:ILE:HD13	86:Az:90:LEU:HB2	0.68	0.68
26:AA:48:ILE:HG22	30:AF:223:ALA:C	2.13	0.68
43:1:80:G:O6	43:1:81:G:N2	2.27	0.68
43:1:427:U:O2'	43:1:428:U:OP1	2.12	0.68
43:1:1576:A:N3	43:1:1577:A:N6	2.40	0.68
43:1:1583:C:N3	43:1:1584:C:N4	2.42	0.68
43:1:2264:A:HO2'	43:1:2857:C:HO2'	1.40	0.68
64:Bg:19:ARG:HE	85:2:825:C:H5'	1.58	0.68
85:2:51:U:H2'	85:2:52:A:C8	2.29	0.68
85:2:1369:G:HO2'	85:2:1370:A:H8	1.41	0.68
86:Az:20:TYR:N	86:Az:73:THR:O	2.24	0.68
17:Aq:87:LEU:HD22	17:Aq:91:GLU:HG3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Ar:193:ILE:HD13	86:Az:90:LEU:CG	2.20	0.68
18:Ar:225:ARG:NH2	43:1:959:C:OP2	2.27	0.68
85:2:1379:U:O3'	85:2:1380:G:O5'	2.08	0.68
32:AH:135:SER:OG	32:AH:137:GLN:O	2.07	0.67
43:1:822:C:H2'	43:1:823:G:H8	1.57	0.67
43:1:1101:G:H2'	43:1:1102:G:H8	1.59	0.67
43:1:2174:G:O2'	43:1:2175:G:OP2	2.12	0.67
43:1:2406:C:H2'	43:1:2407:A:C8	2.29	0.67
44:3:87:A:O2'	44:3:89:U:OP2	2.12	0.67
61:Bc:104:GLU:O	61:Bc:105:THR:HG23	1.94	0.67
64:Bg:7:ASN:HA	64:Bg:73:ALA:HB3	1.77	0.67
77:BE:55:ILE:HD12	77:BE:92:LYS:HB2	1.75	0.67
85:2:201:G:H1	85:2:245:U:H3	1.39	0.67
85:2:1179:A:C2	85:2:1393:G:N2	2.62	0.67
12:Al:129:LYS:NZ	43:1:2704:U:O2	2.22	0.67
12:Al:173:GLU:O	12:Al:219:LYS:NZ	2.27	0.67
18:Ar:118:GLU:CG	18:Ar:123:VAL:HG22	2.24	0.67
39:AO:133:TYR:HA	39:AO:136:GLU:HB2	1.75	0.67
43:1:35:C:H2'	43:1:36:C:C6	2.29	0.67
43:1:2626:A:H2'	43:1:2627:U:H6	1.59	0.67
52:Bw:131:LEU:HD23	52:Bw:229:TRP:HB2	1.75	0.67
72:Bv:63:GLU:HA	72:Bv:66:LEU:HB2	1.76	0.67
85:2:560:A:H2'	85:2:564:G:C8	2.28	0.67
12:Al:95:ARG:HH12	43:1:737:G:H22	1.39	0.67
33:AI:26:LYS:HB3	33:AI:185:TYR:CD1	2.30	0.67
43:1:176:A:H2'	43:1:177:C:C6	2.30	0.67
43:1:2484:A:H2'	43:1:2485:A:C8	2.26	0.67
44:3:5:C:H2'	44:3:6:G:H8	1.60	0.67
62:Bd:504:LYS:HG3	62:Bd:505:PHE:H	1.58	0.67
67:Bo:9:ARG:NH1	85:2:409:C:OP1	2.28	0.67
71:Bu:47:LYS:NZ	71:Bu:48:ILE:O	2.26	0.67
85:2:671:A:N1	85:2:709:G:N2	2.41	0.67
85:2:840:C:O2'	85:2:841:A:OP2	2.12	0.67
85:2:1432:A:HO2'	85:2:1433:A:H8	1.41	0.67
85:2:1705:G:H2'	85:2:1706:A:C8	2.29	0.67
3:Ac:221:THR:HG23	3:Ac:222:GLY:H	1.57	0.67
21:Au:133:ALA:HB3	21:Au:136:LYS:HE3	1.77	0.67
43:1:1478:U:H2'	43:1:1479:C:H6	1.59	0.67
43:1:2606:A:H2	43:1:2611:C:H42	1.41	0.67
43:1:3127:C:H2'	43:1:3128:A:H8	1.58	0.67
51:Br:162:ARG:NH2	85:2:1668:A:H1'	2.06	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:Bw:461:ILE:HG21	52:Bw:476:ALA:HB2	1.76	0.67
85:2:217:A:H3'	85:2:219:C:H5	1.56	0.67
85:2:233:A:H5''	85:2:235:A:N6	2.09	0.67
85:2:786:U:N3	85:2:789:A:OP2	2.27	0.67
85:2:1433:A:O2'	85:2:1434:G:H8	1.77	0.67
1:Aa:92:PRO:O	1:Aa:93:ARG:HG3	1.93	0.67
4:AD:123:LYS:HD3	4:AD:124:PRO:HD2	1.77	0.67
41:AQ:394:LYS:O	41:AQ:430:LYS:NZ	2.26	0.67
43:1:1414:U:H2'	43:1:1415:G:C8	2.28	0.67
43:1:1590:C:O2	43:1:1619:G:C2	2.47	0.67
43:1:1836:C:O2	43:1:1862:G:N2	2.27	0.67
43:1:2340:G:N1	43:1:2344:A:OP2	2.23	0.67
61:Bc:35:THR:HG22	61:Bc:36:ILE:H	1.59	0.67
76:BD:173:GLU:HB3	76:BD:174:PRO:HD3	1.74	0.67
1:Aa:55:ILE:HG13	1:Aa:95:ILE:HG12	1.77	0.67
12:Al:241:ALA:HB3	12:Al:255:ILE:HB	1.74	0.67
24:Ax:58:ARG:HB2	24:Ax:69:ARG:HD2	1.77	0.67
43:1:1285:A:H2'	43:1:1286:G:C8	2.30	0.67
43:1:1545:C:H2'	43:1:1546:A:H8	1.58	0.67
43:1:1590:C:O2	43:1:1618:G:N1	2.25	0.67
73:By:89:ASP:O	73:By:91:ARG:NE	2.27	0.67
85:2:194:A:N3	85:2:282:A:O2'	2.23	0.67
85:2:887:G:H2'	85:2:888:G:H8	1.60	0.67
85:2:1445:U:C2	85:2:1446:A:C6	2.82	0.67
4:AD:131:ARG:HD2	4:AD:155:PRO:HB2	1.76	0.67
14:An:98:ARG:HD3	14:An:106:PRO:HA	1.74	0.67
26:AA:45:ALA:HB1	33:Al:85:TYR:CZ	2.30	0.67
43:1:1911:G:N2	43:1:1913:G:N7	2.43	0.67
47:Bh:312:ARG:HE	47:Bh:377:GLY:HA3	1.60	0.67
60:Ba:9:GLN:HA	60:Ba:12:LEU:HD12	1.77	0.67
85:2:862:C:H2'	85:2:863:G:O4'	1.95	0.67
5:Ad:148:GLY:HA2	5:Ad:164:THR:HG22	1.77	0.67
6:Ae:10:ASP:O	6:Ae:14:GLN:NE2	2.18	0.67
17:Aq:96:LYS:NZ	17:Aq:100:ASP:OD2	2.26	0.67
38:AN:119:ARG:HH21	43:1:1541:G:H5''	1.58	0.67
40:AP:319:ALA:HB1	40:AP:322:ALA:HB3	1.77	0.67
43:1:974:A:H5'	43:1:2746:A:C2	2.29	0.67
45:Bb:39:ARG:NH1	45:Bb:60:CYS:O	2.19	0.67
61:Bc:94:THR:OG1	62:Bd:451:THR:O	2.10	0.67
61:Bc:319:LEU:HD12	76:BD:215:ARG:HG3	1.77	0.67
77:BE:316:THR:O	77:BE:319:SER:OG	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:389:G:H2'	85:2:390:A:H8	1.60	0.67
85:2:1203:U:H1'	85:2:1204:A:OP1	1.95	0.67
85:2:1445:U:O2	85:2:1446:A:N9	2.28	0.67
86:Az:30:THR:OG1	86:Az:68:MET:HE1	1.95	0.67
88:BK:150:ALA:HA	88:BK:189:ALA:HB1	1.77	0.67
89:Bk:2:PRO:HD2	89:Bk:7:LEU:CD2	2.23	0.67
33:AI:126:LYS:NZ	33:AI:127:PRO:O	2.28	0.67
40:AP:670:ALA:CA	43:1:496:C:OP2	2.34	0.67
43:1:2049:U:N3	43:1:2062:G:C6	2.63	0.67
62:Bd:368:VAL:HG12	62:Bd:369:CYS:H	1.60	0.67
76:BD:171:VAL:HG22	76:BD:177:ARG:HA	1.77	0.67
85:2:58:A:N1	85:2:379:G:O2'	2.28	0.67
85:2:915:G:H2'	85:2:916:A:C8	2.30	0.67
85:2:925:U:H2'	85:2:926:G:C8	2.29	0.67
85:2:969:A:O5'	85:2:1707:U:O2'	2.13	0.67
85:2:1912:G:N2	85:2:1915:A:OP2	2.19	0.67
7:Af:7:ARG:NH1	43:1:3048:U:OP1	2.27	0.67
17:Aq:37:ARG:NH2	43:1:710:C:O2'	2.28	0.67
33:AI:150:LEU:HD12	33:AI:162:PHE:HE2	1.60	0.67
43:1:48:A:H3'	43:1:200:G:H2'	1.77	0.67
43:1:465:A:O2'	43:1:468:C:N4	2.28	0.67
43:1:1259:U:H1'	43:1:1260:A:C8	2.29	0.67
43:1:1322:A:H2'	43:1:1323:A:H8	1.60	0.67
43:1:1903:A:H1'	43:1:1904:A:H5'	1.75	0.67
43:1:3067:C:H2'	43:1:3068:U:H6	1.60	0.67
50:Bm:108:ARG:NH1	50:Bm:108:ARG:O	2.28	0.67
67:Bo:51:ARG:NH1	85:2:474:U:OP1	2.28	0.67
85:2:955:C:H2'	85:2:956:G:H8	1.59	0.67
85:2:1445:U:N1	85:2:1446:A:C8	2.63	0.67
85:2:1797:G:H2'	85:2:1798:A:C8	2.30	0.67
86:Az:52:HIS:HB3	86:Az:58:ILE:HD13	1.77	0.67
3:Ac:239:ARG:NE	43:1:3096:G:OP1	2.29	0.66
14:An:25:LEU:HD13	14:An:31:ILE:HG12	1.76	0.66
33:AI:131:PHE:O	33:AI:133:GLU:N	2.28	0.66
34:AJ:29:CYS:HB2	34:AJ:79:ARG:HD3	1.11	0.66
43:1:757:A:H2'	43:1:758:A:C8	2.30	0.66
43:1:1592:U:H1'	43:1:1617:A:H2	1.61	0.66
61:Bc:32:ARG:HH22	61:Bc:118:GLU:HG2	1.58	0.66
85:2:53:U:H2'	85:2:54:G:H8	1.59	0.66
85:2:415:A:O2'	85:2:417:A:OP2	2.12	0.66
2:Ab:178:SER:OG	43:1:2387:C:N4	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ae:35:ARG:HH12	43:1:2612:U:H4'	1.60	0.66
9:Ai:18:ARG:HB3	43:1:1207:G:O3'	1.94	0.66
20:At:34:LYS:HD3	20:At:81:TYR:CE1	2.30	0.66
26:AA:67:GLU:HG3	26:AA:68:GLU:OE1	1.95	0.66
40:AP:172:ALA:O	40:AP:176:ALA:HB2	1.95	0.66
45:Bb:15:ASN:HD21	45:Bb:516:ASN:HA	1.60	0.66
45:Bb:493:LEU:HA	45:Bb:494:LYS:HZ2	1.60	0.66
78:BI:84:ALA:H	78:BI:87:ALA:HB3	1.59	0.66
79:BJ:68:ALA:HB1	79:BJ:71:ALA:HB2	1.75	0.66
85:2:1458:C:N3	85:2:1459:A:C5	2.63	0.66
85:2:1776:C:H2'	85:2:1777:G:H8	1.60	0.66
87:Ah:29:TYR:CE1	87:Ah:32:LEU:HD22	2.30	0.66
10:Aj:165:ARG:NH1	43:1:1291:C:O3'	2.28	0.66
15:Ao:54:ARG:NH2	44:3:114:G:O3'	2.29	0.66
19:As:136:LEU:O	19:As:140:GLN:NE2	2.28	0.66
43:1:1596:G:H1	43:1:1612:G:N2	1.93	0.66
43:1:2673:G:N2	43:1:2676:A:OP2	2.29	0.66
43:1:2841:G:N1	43:1:3060:A:N7	2.43	0.66
60:Ba:90:ASP:OD1	60:Ba:90:ASP:O	2.13	0.66
64:Bg:41:LYS:HZ2	64:Bg:48:ASN:N	1.94	0.66
85:2:382:A:OP2	89:Bk:31:THR:HG21	1.94	0.66
85:2:837:A:O3'	85:2:840:C:N4	2.28	0.66
85:2:1846:G:H1'	85:2:1847:U:H5'	1.76	0.66
6:Ae:17:LEU:HD11	30:AF:190:LEU:HD12	1.76	0.66
10:Aj:65:ARG:NH2	10:Aj:67:ASP:OD2	2.29	0.66
10:Aj:162:ARG:HH12	43:1:1161:C:H5'	1.61	0.66
15:Ao:46:ALA:HB2	15:Ao:73:LEU:HD13	1.77	0.66
19:As:168:ASP:OD1	19:As:171:ARG:N	2.28	0.66
32:AH:123:VAL:HG23	43:1:699:C:H41	1.61	0.66
41:AQ:134:ASP:O	41:AQ:139:PHE:N	2.28	0.66
43:1:702:U:H2'	43:1:703:C:C6	2.31	0.66
43:1:1234:A:H2'	43:1:1235:A:C8	2.30	0.66
43:1:1445:C:H2'	43:1:1446:A:H8	1.61	0.66
43:1:1530:G:N2	43:1:1532:C:O2	2.28	0.66
77:BE:279:VAL:HB	77:BE:317:LEU:HD13	1.77	0.66
85:2:1190:C:N4	85:2:1204:A:H2	1.89	0.66
85:2:1435:U:HO2'	85:2:1436:A:H8	1.43	0.66
85:2:1458:C:O2'	85:2:1459:A:H8	1.77	0.66
1:Aa:74:TRP:HE1	1:Aa:82:LYS:HB2	1.61	0.66
3:Ac:239:ARG:CD	43:1:3096:G:P	2.63	0.66
16:Ap:148:ASN:HB3	16:Ap:150:ARG:HH21	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:Au:83:ASP:OD1	21:Au:86:THR:N	2.29	0.66
32:AH:24:ARG:HG2	32:AH:27:ARG:HH21	1.60	0.66
34:AJ:25:PHE:HE2	34:AJ:78:ILE:HG22	1.59	0.66
43:1:555:C:H2'	43:1:556:A:H8	1.60	0.66
43:1:728:G:OP1	43:1:1411:U:O2'	2.13	0.66
43:1:1129:A:OP1	43:1:1131:C:N4	2.29	0.66
43:1:1248:G:H2'	43:1:1249:C:C6	2.30	0.66
44:3:15:G:OP2	44:3:72:G:N2	2.28	0.66
44:3:116:U:O4	44:3:118:A:N6	2.29	0.66
46:Bf:83:ARG:NH1	85:2:1726:A:OP1	2.28	0.66
53:Bx:43:ARG:NH2	85:2:1610:A:H62	1.94	0.66
65:Bj:251:LYS:HZ1	65:Bj:285:SER:HB3	1.53	0.66
69:Bq:195:LYS:NZ	85:2:717:A:OP1	2.27	0.66
72:Bv:181:LEU:HA	72:Bv:184:LYS:HB3	1.78	0.66
85:2:1566:G:H2'	85:2:1567:G:C8	2.30	0.66
85:2:1833:A:H1'	85:2:1834:A:H5'	1.77	0.66
88:BK:260:ALA:HB3	88:BK:263:ALA:HB2	1.78	0.66
6:Ae:34:ILE:HD12	6:Ae:159:ILE:HG12	1.76	0.66
25:Ay:94:LEU:HD13	25:Ay:102:PRO:HD2	1.76	0.66
30:AF:150:GLU:OE1	30:AF:150:GLU:N	2.28	0.66
39:AO:181:ILE:HG21	39:AO:199:TRP:HZ2	1.61	0.66
43:1:506:A:N6	43:1:532:G:C2	2.63	0.66
43:1:755:U:O4	43:1:772:G:O6	2.14	0.66
43:1:1246:U:H3'	43:1:1247:A:C8	2.30	0.66
43:1:2438:G:H2'	43:1:2439:G:C8	2.30	0.66
45:Bb:447:GLN:O	45:Bb:541:TYR:OH	2.06	0.66
53:Bx:69:ARG:HA	53:Bx:72:LYS:HE2	1.76	0.66
86:Az:41:MET:SD	86:Az:62:ILE:HD13	2.36	0.66
3:Ac:239:ARG:HD2	43:1:3096:G:OP2	1.95	0.66
5:Ad:241:VAL:HG12	5:Ad:281:LEU:HB2	1.77	0.66
6:Ae:134:GLU:O	6:Ae:135:PHE:CG	2.49	0.66
9:Ai:88:ILE:HG13	9:Ai:117:ILE:HD13	1.77	0.66
10:Aj:168:ARG:CZ	10:Aj:169:PRO:HD2	2.25	0.66
43:1:240:A:H1'	43:1:515:G:O6	1.96	0.66
43:1:1551:A:H61	43:1:1898:C:N4	1.94	0.66
43:1:3056:G:H2'	43:1:3057:G:C8	2.30	0.66
49:Bl:34:VAL:HG13	49:Bl:36:ASN:H	1.60	0.66
68:Bp:41:MET:HE2	68:Bp:67:LYS:HB2	1.76	0.66
75:BC:75:THR:OG1	75:BC:76:LEU:N	2.29	0.66
77:BE:52:ARG:HB3	77:BE:80:TRP:CH2	2.31	0.66
85:2:599:A:H2'	85:2:600:A:C8	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:789:A:O2'	85:2:791:A:N7	2.24	0.66
85:2:813:A:OP1	85:2:1922:G:O2'	2.14	0.66
85:2:1096:G:H2'	85:2:1097:A:H8	1.61	0.66
85:2:1170:A:H2	85:2:1402:U:N3	1.92	0.66
85:2:1777:G:H1	85:2:1868:U:H3	1.43	0.66
7:Af:51:LYS:HG2	7:Af:52:ASN:H	1.59	0.66
24:Ax:74:ASN:HB2	43:1:529:A:H5''	1.78	0.66
35:AK:41:MET:HB3	43:1:536:U:H2'	1.77	0.66
40:AP:469:ALA:O	40:AP:473:ALA:HB3	1.96	0.66
43:1:680:A:N6	43:1:706:A:N7	2.44	0.66
43:1:1333:U:H2'	43:1:1334:C:C6	2.31	0.66
43:1:2189:G:H2'	43:1:2190:C:C6	2.31	0.66
51:Br:180:LYS:HB3	85:2:951:A:C2	2.31	0.66
68:Bp:31:ASN:O	68:Bp:32:ARG:NH2	2.28	0.66
88:BK:278:ALA:HB1	88:BK:311:ALA:HB3	1.78	0.66
4:AD:133:TRP:CE2	12:Al:124:ARG:HG2	2.31	0.66
6:Ae:133:THR:OG1	6:Ae:155:PHE:HE2	1.72	0.66
22:Av:142:ASN:ND2	44:3:78:U:O2	2.29	0.66
43:1:1323:A:H3'	43:1:1324:G:C8	2.31	0.66
51:Br:208:HIS:HB3	85:2:1577:A:C4	2.31	0.66
85:2:557:A:OP2	85:2:563:G:N2	2.28	0.66
85:2:821:U:H2'	85:2:822:G:H8	1.61	0.66
85:2:1178:G:N2	85:2:1179:A:C5	2.64	0.66
12:Al:181:ARG:HB3	43:1:789:G:C6	2.31	0.66
14:An:42:ARG:NH2	14:An:46:ASP:OD2	2.29	0.66
17:Aq:34:TYR:HD1	17:Aq:37:ARG:HH11	1.44	0.66
39:AO:135:LYS:NZ	43:1:1643:A:OP1	2.28	0.66
39:AO:218:GLU:HA	39:AO:221:ARG:HD2	1.79	0.66
41:AQ:338:THR:HG21	41:AQ:366:SER:HB2	1.78	0.66
43:1:1081:U:H2'	43:1:1082:U:C6	2.31	0.66
43:1:2126:A:O2'	43:1:2127:A:O4'	2.09	0.66
43:1:2436:G:H21	43:1:2470:C:N4	1.94	0.66
43:1:2564:U:H2'	43:1:2565:C:H6	1.60	0.66
43:1:2771:C:OP1	43:1:2827:G:N2	2.29	0.66
45:Bb:36:VAL:HG11	50:Bm:129:PHE:HE2	1.59	0.66
47:Bh:321:ILE:HA	47:Bh:362:ASP:O	1.95	0.66
59:BF:54:ALA:O	59:BF:58:ALA:CB	2.44	0.66
60:Ba:102:LYS:HE3	60:Ba:142:LYS:HA	1.78	0.66
64:Bg:65:GLN:O	71:Bu:40:ARG:NH2	2.29	0.66
85:2:1133:C:C2	85:2:1485:G:N2	2.64	0.66
85:2:1372:G:HO2'	85:2:1373:U:H6	1.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1434:G:H21	85:2:1447:G:N2	1.93	0.66
88:BK:70:ALA:HA	88:BK:73:ALA:HB3	1.78	0.66
1:Aa:44:ILE:HG12	1:Aa:84:ASN:HD21	1.61	0.65
43:1:2625:A:H2'	43:1:2626:A:C8	2.31	0.65
43:1:2883:U:O2'	43:1:2884:U:OP2	2.14	0.65
43:1:3123:G:O3'	43:1:3140:G:N2	2.29	0.65
52:Bw:328:SER:O	52:Bw:330:HIS:ND1	2.28	0.65
52:Bw:442:TYR:HB3	52:Bw:449:ARG:N	2.09	0.65
60:Ba:117:ARG:HH21	60:Ba:124:CYS:HB3	1.61	0.65
73:By:71:LYS:HD2	85:2:234:A:O4'	1.96	0.65
77:BE:213:ILE:HG21	77:BE:221:TYR:HB2	1.77	0.65
85:2:1911:G:H2'	85:2:1912:G:C8	2.31	0.65
88:BK:261:ALA:HB3	88:BK:292:ALA:HB3	1.78	0.65
4:AD:150:ARG:NH2	43:1:2649:G:N7	2.41	0.65
7:Af:7:ARG:NE	7:Af:66:HIS:HB3	2.11	0.65
19:As:155:HIS:NE2	43:1:628:U:O3'	2.27	0.65
21:Au:25:ARG:NH1	43:1:444:G:O6	2.29	0.65
43:1:66:G:O6	43:1:597:A:N1	2.29	0.65
43:1:232:G:OP2	43:1:234:C:N4	2.30	0.65
43:1:1598:G:H22	43:1:1610:C:H42	1.43	0.65
43:1:2358:C:H2'	43:1:2359:G:H8	1.61	0.65
43:1:2958:U:C2	43:1:2967:A:N7	2.64	0.65
61:Bc:201:LEU:O	61:Bc:204:THR:OG1	2.14	0.65
61:Bc:235:PHE:CE2	76:BD:169:LYS:NZ	2.60	0.65
85:2:942:A:H2'	85:2:943:U:C6	2.31	0.65
85:2:1431:G:O2'	85:2:1432:A:H8	1.78	0.65
85:2:1451:G:HO3'	85:2:1452:C:P	2.16	0.65
85:2:1785:C:N3	85:2:1786:A:N6	2.44	0.65
89:Bk:107:ILE:HD11	89:Bk:110:ARG:HG3	1.71	0.65
5:Ad:139:LYS:NZ	43:1:592:C:OP1	2.28	0.65
13:Am:65:PHE:H	13:Am:149:GLU:CD	2.04	0.65
16:Ap:172:ARG:HA	16:Ap:184:SER:O	1.97	0.65
18:Ar:145:GLN:OE1	18:Ar:150:GLN:NE2	2.29	0.65
34:AJ:64:VAL:CG1	34:AJ:85:LYS:CA	2.74	0.65
34:AJ:64:VAL:HG23	34:AJ:85:LYS:HD2	1.75	0.65
39:AO:140:GLU:HG2	39:AO:141:LYS:H	1.61	0.65
43:1:193:G:H2'	43:1:194:C:C6	2.31	0.65
43:1:1208:G:H2'	43:1:1209:U:H5	1.61	0.65
43:1:1367:G:O2'	43:1:1368:G:OP1	2.14	0.65
51:Br:149:LYS:HD3	51:Br:158:ILE:CD1	2.26	0.65
60:Ba:32:TYR:N	60:Ba:40:ILE:O	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:Be:12:PRO:O	63:Be:87:LYS:NZ	2.18	0.65
67:Bo:55:LYS:HG3	76:BD:333:LYS:HD3	1.79	0.65
72:Bv:167:LEU:HG	72:Bv:168:LEU:HD12	1.78	0.65
85:2:70:U:O4	85:2:169:G:O6	2.13	0.65
85:2:1826:U:O2'	85:2:1827:G:N7	2.20	0.65
18:Ar:193:ILE:CB	86:Az:90:LEU:CG	2.74	0.65
37:AM:85:VAL:HG22	37:AM:87:GLY:H	1.61	0.65
43:1:513:G:H22	43:1:524:U:H3	1.42	0.65
43:1:1151:G:O6	43:1:1304:G:N2	2.29	0.65
48:Bi:130:ILE:O	48:Bi:190:ILE:HB	1.96	0.65
52:Bw:186:ASN:HD22	52:Bw:203:VAL:HG13	1.60	0.65
52:Bw:246:TRP:CD1	52:Bw:382:ARG:HH12	2.14	0.65
69:Bq:219:PHE:HD2	69:Bq:221:LEU:HB2	1.62	0.65
79:BJ:194:ALA:HB1	79:BJ:228:ALA:HA	1.77	0.65
85:2:1789:G:O6	85:2:1858:C:N4	2.30	0.65
86:Az:62:ILE:O	86:Az:72:GLU:OE2	2.14	0.65
40:AP:284:ALA:O	40:AP:287:ALA:N	2.29	0.65
41:AQ:184:ARG:HH22	43:1:140:C:H2'	1.61	0.65
43:1:76:C:H2'	43:1:77:A:H8	1.61	0.65
43:1:2128:C:H2'	43:1:2129:A:C8	2.31	0.65
51:Br:147:MET:HB2	51:Br:163:SER:CB	2.26	0.65
51:Br:147:MET:HB2	51:Br:163:SER:HB3	1.77	0.65
85:2:394:U:H2'	85:2:395:G:H8	1.61	0.65
85:2:555:G:OP2	85:2:556:A:O2'	2.15	0.65
85:2:950:U:H2'	85:2:951:A:H3'	1.77	0.65
85:2:1754:G:O2'	85:2:1914:A:O2'	2.12	0.65
10:Aj:128:SER:HA	10:Aj:132:ARG:HH11	1.62	0.65
43:1:1513:G:H2'	43:1:1514:A:O4'	1.97	0.65
65:Bj:248:ARG:HB3	65:Bj:251:LYS:HE2	1.75	0.65
85:2:1000:A:N6	85:2:1027:C:OP2	2.28	0.65
85:2:1438:G:O2'	85:2:1439:U:C6	2.49	0.65
3:Ac:177:VAL:HG13	3:Ac:180:GLN:HG2	1.77	0.65
5:Ad:160:ALA:HA	43:1:1411:U:C5	2.32	0.65
7:Af:4:LYS:C	34:AJ:48:ARG:HH21	2.04	0.65
15:Ao:26:THR:HG22	15:Ao:28:LYS:H	1.61	0.65
17:Aq:60:GLN:HE22	32:AH:140:TRP:HZ2	1.43	0.65
23:Aw:115:GLU:OE1	23:Aw:126:HIS:ND1	2.29	0.65
24:Ax:58:ARG:NH1	43:1:2393:A:OP1	2.30	0.65
43:1:1911:G:O2'	43:1:1913:G:N2	2.28	0.65
43:1:1992:C:H2'	43:1:1993:A:H8	1.62	0.65
46:Bf:129:ARG:NH2	46:Bf:130:GLU:OE2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:Br:150:LYS:O	51:Br:150:LYS:HG2	1.96	0.65
52:Bw:208:GLN:HG2	52:Bw:394:MET:O	1.96	0.65
60:Ba:29:GLN:O	60:Ba:45:LYS:NZ	2.30	0.65
85:2:706:A:H2'	85:2:707:A:C8	2.29	0.65
85:2:1192:A:C2	85:2:1203:U:O2	2.50	0.65
88:BK:215:ALA:HA	88:BK:230:ALA:CB	2.25	0.65
4:AD:144:LYS:O	4:AD:149:LYS:NZ	2.30	0.65
4:AD:168:LYS:NZ	43:1:1087:C:OP2	2.19	0.65
6:Ae:123:ARG:NH2	6:Ae:173:TRP:HB3	2.11	0.65
13:Am:56:CYS:SG	13:Am:57:LYS:N	2.70	0.65
17:Aq:81:ARG:NH2	43:1:1147:C:OP1	2.30	0.65
21:Au:88:ARG:NH2	43:1:435:A:OP1	2.30	0.65
28:AC:44:PRO:HG3	43:1:2646:U:H4'	1.78	0.65
39:AO:350:ILE:HG13	39:AO:378:TYR:CZ	2.32	0.65
43:1:2895:G:H2'	43:1:2896:A:H8	1.61	0.65
45:Bb:25:GLU:OE2	48:Bi:135:ARG:NH1	2.26	0.65
61:Bc:319:LEU:HD13	76:BD:218:ALA:HB3	1.79	0.65
62:Bd:431:HIS:ND1	62:Bd:432:ALA:O	2.28	0.65
72:Bv:43:PHE:HD1	76:BD:338:LYS:HG3	1.61	0.65
85:2:347:C:H4'	85:2:348:A:H5'	1.79	0.65
85:2:1605:G:O2'	85:2:1608:G:N3	2.24	0.65
5:Ad:160:ALA:HA	43:1:1411:U:H5	1.62	0.65
9:Ai:70:PHE:H	9:Ai:75:PHE:HD1	1.45	0.65
9:Ai:109:LEU:HB2	9:Ai:150:ILE:HD13	1.79	0.65
40:AP:192:ALA:HA	40:AP:195:ALA:HB3	1.79	0.65
40:AP:565:ALA:HB1	43:1:299:U:P	2.37	0.65
43:1:109:C:O2'	43:1:120:A:O2'	2.15	0.65
43:1:148:C:HO2'	43:1:149:G:H8	1.43	0.65
43:1:1177:A:H61	43:1:1274:G:H2'	1.61	0.65
43:1:1545:C:H2'	43:1:1546:A:C8	2.32	0.65
43:1:2174:G:N2	43:1:2197:U:O4	2.30	0.65
43:1:2908:U:H4'	43:1:2909:C:H5'	1.77	0.65
48:Bi:150:HIS:HB2	48:Bi:189:VAL:HG22	1.77	0.65
49:Bl:62:GLN:NE2	52:Bw:372:THR:O	2.26	0.65
52:Bw:368:GLU:OE1	52:Bw:377:ARG:NE	2.29	0.65
55:BA:52:ASP:HB3	55:BA:55:GLU:HG3	1.78	0.65
56:Bt:72:LYS:NZ	85:2:1616:G:O6	2.27	0.65
85:2:76:G:N1	85:2:77:U:O4	2.30	0.65
85:2:428:G:N2	85:2:452:A:H62	1.95	0.65
85:2:1457:C:C2	85:2:1458:C:C4	2.85	0.65
3:Ac:194:GLN:HG3	3:Ac:240:MET:HE1	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ae:125:ASN:HA	6:Ae:166:GLN:HB2	1.79	0.65
17:Aq:20:CYS:SG	43:1:730:U:O2'	2.46	0.65
20:At:94:ILE:HD11	25:Ay:38:LEU:HB3	1.79	0.65
39:AO:267:TYR:O	39:AO:304:ASN:ND2	2.30	0.65
43:1:1137:A:H3'	86:Az:28:PRO:HG2	1.79	0.65
43:1:2454:G:H4'	43:1:2455:A:O5'	1.97	0.65
44:3:65:G:N7	44:3:66:U:C4	2.65	0.65
45:Bb:492:ARG:HH21	45:Bb:497:ALA:HB1	1.60	0.65
48:Bi:135:ARG:HG2	48:Bi:185:LYS:HB2	1.79	0.65
51:Br:166:LEU:HD11	51:Br:169:TYR:CA	2.27	0.65
52:Bw:242:LYS:HA	52:Bw:357:GLN:HG3	1.79	0.65
54:Bz:292:ARG:HB2	54:Bz:316:SER:HB3	1.79	0.65
55:BA:43:CYS:SG	55:BA:47:ASN:ND2	2.70	0.65
61:Bc:64:THR:HG21	62:Bd:461:THR:HG22	1.79	0.65
85:2:49:U:O4	85:2:50:A:N6	2.30	0.65
85:2:1385:C:O2'	85:2:1386:G:C8	2.50	0.65
85:2:1445:U:O2'	85:2:1446:A:C8	2.12	0.65
85:2:1631:U:H5''	85:2:1632:C:H5	1.62	0.65
1:Aa:52:SER:O	1:Aa:98:PRO:HD2	1.97	0.64
3:Ac:185:THR:OG1	3:Ac:245:ARG:NE	2.30	0.64
10:Aj:162:ARG:HH22	43:1:1161:C:H3'	1.63	0.64
34:AJ:35:LYS:HD2	34:AJ:43:VAL:HG22	1.79	0.64
39:AO:270:LEU:HG	39:AO:273:LEU:HD21	1.77	0.64
43:1:111:G:H3'	43:1:112:A:H8	1.62	0.64
43:1:1666:C:N4	43:1:1878:U:H3	1.93	0.64
51:Br:161:ARG:HD2	85:2:1669:C:H42	1.60	0.64
52:Bw:380:HIS:O	52:Bw:382:ARG:N	2.30	0.64
52:Bw:435:ALA:HB3	52:Bw:458:TRP:HD1	1.61	0.64
75:BC:41:GLY:N	79:BJ:322:ALA:O	2.29	0.64
76:BD:151:ARG:HE	76:BD:154:VAL:HG21	1.62	0.64
77:BE:53:ALA:HB1	77:BE:55:ILE:HD11	1.79	0.64
85:2:180:A:C2	85:2:181:G:H1'	2.31	0.64
85:2:529:A:H3'	85:2:530:A:H5''	1.79	0.64
88:BK:278:ALA:HB2	88:BK:308:ALA:CA	2.26	0.64
88:BK:302:ALA:C	88:BK:304:ALA:H	2.06	0.64
7:Af:7:ARG:HE	7:Af:66:HIS:HB3	1.62	0.64
39:AO:162:ASN:HD22	43:1:1643:A:H62	1.45	0.64
41:AQ:296:LYS:NZ	43:1:135:C:O3'	2.26	0.64
43:1:1510:A:H2'	43:1:1511:A:C8	2.33	0.64
43:1:1624:C:O2'	43:1:1625:G:O5'	2.15	0.64
43:1:2605:A:H3'	43:1:2606:A:C8	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:Bw:361:TRP:HB2	52:Bw:391:ARG:HG3	1.78	0.64
60:Ba:101:TRP:CG	60:Ba:102:LYS:H	2.15	0.64
68:Bp:5:ILE:HD13	68:Bp:56:LYS:HG3	1.78	0.64
77:BE:318:GLN:NE2	77:BE:385:PHE:HB2	2.12	0.64
85:2:79:G:H1'	85:2:80:U:H5'	1.79	0.64
85:2:1083:C:O2'	85:2:1085:A:N7	2.25	0.64
85:2:1170:A:H61	85:2:1401:A:H62	1.43	0.64
85:2:1422:G:C2'	85:2:1423:U:OP2	2.38	0.64
2:Ab:182:THR:HG22	2:Ab:183:SER:H	1.61	0.64
6:Ae:24:ASN:HD21	44:3:59:G:P	2.20	0.64
18:Ar:189:ILE:CG2	86:Az:94:LEU:C	2.71	0.64
22:Av:178:ARG:NE	43:1:1018:G:C5'	2.60	0.64
33:AI:157:LEU:HB2	33:AI:200:TYR:HE1	1.61	0.64
36:AL:70:ASN:ND2	86:Az:80:ARG:CZ	2.60	0.64
41:AQ:403:ILE:HG22	41:AQ:404:LEU:HD12	1.80	0.64
43:1:173:C:HO2'	43:1:1522:A:N6	1.95	0.64
43:1:488:G:O2'	43:1:489:U:O4'	2.14	0.64
43:1:953:G:C6	43:1:954:U:O4	2.50	0.64
43:1:1323:A:O2'	43:1:1324:G:OP1	2.16	0.64
43:1:2256:G:N2	43:1:2274:U:O4	2.30	0.64
43:1:2408:A:N6	43:1:2488:G:N1	2.13	0.64
44:3:35:G:H2'	44:3:36:A:C8	2.32	0.64
47:Bh:311:ARG:HG3	47:Bh:406:ARG:NH1	2.12	0.64
48:Bi:150:HIS:HD1	85:2:1116:G:H5'	1.63	0.64
49:Bl:104:SER:HA	49:Bl:107:GLN:HE21	1.61	0.64
50:Bm:156:LEU:HB3	50:Bm:159:ILE:HD13	1.78	0.64
60:Ba:51:ARG:NH2	77:BE:251:GLN:O	2.30	0.64
62:Bd:497:THR:N	62:Bd:500:ASP:OD2	2.30	0.64
66:Bn:333:GLU:OE1	66:Bn:333:GLU:N	2.31	0.64
77:BE:170:LEU:HB3	77:BE:207:LEU:HB2	1.79	0.64
85:2:887:G:H2'	85:2:888:G:C8	2.32	0.64
85:2:928:A:H2'	85:2:929:C:C6	2.32	0.64
85:2:944:G:O2'	85:2:963:C:O2'	2.15	0.64
85:2:993:G:C6	85:2:1034:A:N6	2.65	0.64
85:2:1185:C:HO2'	85:2:1186:A:H8	1.44	0.64
85:2:1658:G:C6	85:2:1678:A:N1	2.66	0.64
85:2:1665:G:N2	85:2:1668:A:OP2	2.30	0.64
9:Ai:127:CYS:O	9:Ai:127:CYS:SG	2.56	0.64
10:Aj:30:LEU:HD12	10:Aj:31:ARG:H	1.61	0.64
43:1:760:C:H2'	43:1:761:C:C6	2.31	0.64
43:1:776:C:C4	43:1:777:U:H5	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1672:U:O2'	43:1:1673:C:O5'	2.16	0.64
43:1:1674:A:O2'	43:1:1675:U:O5'	2.15	0.64
43:1:2545:U:H2'	43:1:2546:U:C6	2.30	0.64
44:3:2:A:OP2	44:3:2:A:H8	1.80	0.64
51:Br:159:TRP:N	51:Br:159:TRP:CD1	2.65	0.64
52:Bw:359:ASN:OD1	52:Bw:360:SER:N	2.31	0.64
56:Bt:59:LYS:NZ	85:2:1675:A:OP1	2.30	0.64
61:Bc:88:HIS:HE1	61:Bc:95:SER:HB2	1.61	0.64
71:Bu:99:GLU:HG3	71:Bu:102:ALA:HB3	1.78	0.64
85:2:16:A:O2'	85:2:17:G:O4'	2.16	0.64
85:2:179:G:H1	85:2:331:C:H42	1.45	0.64
86:Az:38:LEU:HA	86:Az:41:MET:HE3	1.79	0.64
16:Ap:103:LYS:NZ	43:1:3150:C:O5'	2.31	0.64
22:Av:223:LEU:O	22:Av:225:SER:N	2.30	0.64
39:AO:143:GLU:OE2	39:AO:147:ASN:ND2	2.31	0.64
43:1:802:C:H2'	43:1:803:U:H6	1.61	0.64
43:1:2383:C:H2'	43:1:2384:C:C6	2.33	0.64
54:Bz:351:SER:OG	54:Bz:353:ARG:NH2	2.30	0.64
67:Bo:44:PRO:HG3	85:2:470:G:H4'	1.78	0.64
67:Bo:55:LYS:HG2	67:Bo:56:PHE:H	1.63	0.64
85:2:680:G:H2'	85:2:681:G:C8	2.32	0.64
85:2:1172:C:O2'	85:2:1173:C:H6	1.81	0.64
85:2:1450:C:O2'	85:2:1451:G:P	2.55	0.64
88:BK:278:ALA:CB	88:BK:308:ALA:HA	2.28	0.64
11:Ak:156:GLU:OE2	11:Ak:156:GLU:N	2.30	0.64
43:1:227:G:H22	43:1:240:A:P	2.20	0.64
43:1:708:G:H2'	43:1:709:G:H8	1.62	0.64
43:1:995:G:C4'	86:Az:61:MET:HB2	2.28	0.64
43:1:1317:C:H2'	43:1:1318:U:H6	1.61	0.64
43:1:1354:U:H2'	43:1:1355:U:H6	1.62	0.64
43:1:2233:G:H2'	43:1:2234:U:O4'	1.97	0.64
43:1:3155:U:O4	43:1:3156:A:N6	2.30	0.64
54:Bz:328:GLN:HE21	54:Bz:376:GLY:HA2	1.62	0.64
76:BD:342:LYS:NZ	76:BD:344:LYS:O	2.29	0.64
85:2:1399:G:O2'	85:2:1400:C:P	2.56	0.64
85:2:1449:A:C2'	85:2:1450:C:OP2	2.43	0.64
3:Ac:91:ASP:OD1	3:Ac:92:LYS:N	2.28	0.64
14:An:16:SER:O	14:An:68:ARG:NH1	2.31	0.64
21:Au:133:ALA:HB3	21:Au:136:LYS:HB3	1.78	0.64
43:1:1932:G:H5''	43:1:1933:A:H5'	1.80	0.64
43:1:2022:G:H21	43:1:2036:A:N6	1.92	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2428:A:N6	43:1:2467:A:H61	1.95	0.64
43:1:2549:U:H2'	43:1:2550:C:C6	2.33	0.64
43:1:3074:C:H4'	43:1:3075:A:H5''	1.80	0.64
52:Bw:247:THR:HG22	52:Bw:382:ARG:NE	2.12	0.64
52:Bw:312:ILE:O	52:Bw:314:GLU:N	2.27	0.64
53:Bx:65:ASN:O	53:Bx:69:ARG:HD3	1.98	0.64
54:Bz:386:ARG:NH2	85:2:1480:A:OP2	2.30	0.64
61:Bc:195:LYS:NZ	84:BL:58:ALA:O	2.29	0.64
64:Bg:4:ARG:CZ	85:2:584:G:H4'	2.28	0.64
68:Bp:13:MET:HB3	68:Bp:16:SER:HB2	1.80	0.64
85:2:132:U:HO2'	85:2:133:C:H6	1.44	0.64
85:2:211:G:H2'	85:2:212:G:H8	1.62	0.64
85:2:215:A:O2'	85:2:216:A:O4'	2.13	0.64
85:2:984:U:N3	85:2:1562:U:O2'	2.29	0.64
85:2:1121:U:H4'	85:2:1122:C:C4	2.33	0.64
86:Az:27:LEU:N	86:Az:28:PRO:CD	2.61	0.64
3:Ac:76:ARG:HH11	3:Ac:175:HIS:CE1	2.16	0.64
3:Ac:130:LYS:HG3	3:Ac:152:ARG:HA	1.80	0.64
7:Af:4:LYS:O	34:AJ:48:ARG:NH2	2.30	0.64
11:Ak:63:LYS:HB3	11:Ak:89:GLU:HG3	1.79	0.64
11:Ak:67:CYS:SG	11:Ak:68:ILE:N	2.71	0.64
13:Am:142:SER:H	13:Am:145:GLN:HE21	1.46	0.64
26:AA:43:GLN:O	26:AA:64:GLU:HB3	1.96	0.64
26:AA:45:ALA:HB2	26:AA:64:GLU:HB2	1.80	0.64
35:AK:78:ARG:NH1	43:1:557:C:H1'	2.13	0.64
43:1:645:A:H4'	43:1:646:G:OP2	1.98	0.64
51:Br:161:ARG:CZ	85:2:1670:U:H3	2.10	0.64
61:Bc:35:THR:N	61:Bc:38:GLN:OE1	2.31	0.64
61:Bc:108:ASP:OD1	61:Bc:109:VAL:N	2.31	0.64
61:Bc:120:ILE:HB	61:Bc:121:PRO:HD2	1.80	0.64
85:2:1191:U:HO2'	85:2:1192:A:H8	1.45	0.64
85:2:1391:A:C2'	85:2:1392:A:C8	2.80	0.64
85:2:1796:U:H2'	85:2:1797:G:H8	1.63	0.64
89:Bk:66:TYR:CE1	89:Bk:87:VAL:CG2	2.69	0.64
10:Aj:162:ARG:HH11	10:Aj:163:ARG:HH22	1.46	0.64
43:1:1543:U:O2	43:1:1932:G:N2	2.30	0.64
43:1:2801:A:O2'	43:1:2803:G:OP2	2.16	0.64
82:BM:47:ALA:O	82:BM:51:ALA:HB3	1.98	0.64
85:2:431:G:O3'	85:2:448:G:N2	2.30	0.64
88:BK:86:ALA:CA	88:BK:120:ALA:HB2	2.28	0.64
6:Ae:113:MET:HB3	6:Ae:119:PRO:HG3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Ar:227:ARG:NH2	43:1:1140:U:O2'	2.29	0.64
19:As:191:HIS:HB3	43:1:891:G:H1'	1.79	0.64
28:AC:20:THR:O	28:AC:45:ARG:NH1	2.31	0.64
29:AE:4:ARG:HG3	29:AE:6:SER:H	1.62	0.64
43:1:1022:A:H5''	43:1:1023:G:C8	2.33	0.64
43:1:2017:A:H2'	43:1:2018:C:C6	2.32	0.64
43:1:2090:A:C8	43:1:2146:A:C8	2.86	0.64
43:1:2489:U:H2'	43:1:2490:G:C8	2.33	0.64
45:Bb:446:TYR:HA	45:Bb:451:LEU:HD12	1.80	0.64
48:Bi:165:VAL:O	50:Bm:148:ARG:NH1	2.31	0.64
65:Bj:227:ASP:O	65:Bj:232:ARG:NH2	2.30	0.64
68:Bp:32:ARG:HB2	89:Bk:8:ILE:HD11	1.79	0.64
76:BD:275:GLU:HG2	76:BD:276:GLY:H	1.63	0.64
85:2:1674:G:H2'	85:2:1675:A:H8	1.61	0.64
85:2:1695:A:H61	85:2:1723:A:H3'	1.63	0.64
85:2:1763:U:H3	85:2:1882:G:H1	1.46	0.64
2:Ab:140:TYR:N	2:Ab:144:GLN:OE1	2.20	0.63
9:Ai:63:MET:HA	9:Ai:82:PRO:HA	1.79	0.63
12:Al:171:GLN:NE2	43:1:772:G:OP1	2.31	0.63
24:Ax:78:LYS:NZ	43:1:2403:U:OP1	2.31	0.63
43:1:2161:U:H2'	43:1:2162:G:C8	2.33	0.63
43:1:2222:U:H2'	43:1:2229:A:C2	2.34	0.63
85:2:428:G:H21	85:2:452:A:H62	1.44	0.63
85:2:615:A:O2'	85:2:616:A:O5'	2.15	0.63
85:2:1507:A:H61	85:2:1528:G:H1'	1.62	0.63
6:Ae:27:GLU:N	6:Ae:27:GLU:OE1	2.31	0.63
13:Am:61:THR:N	22:Av:135:GLU:OE2	2.29	0.63
43:1:821:C:H2'	43:1:822:C:H6	1.64	0.63
43:1:858:U:H5''	43:1:859:A:N1	2.12	0.63
43:1:2431:G:N2	43:1:2474:U:O2	2.31	0.63
48:Bi:130:ILE:HA	48:Bi:217:GLN:O	1.98	0.63
68:Bp:23:ARG:HE	85:2:256:C:H5''	1.62	0.63
76:BD:309:PHE:HA	76:BD:312:MET:HE2	1.80	0.63
85:2:291:C:H2'	85:2:292:A:H8	1.63	0.63
88:BK:83:ALA:HB3	88:BK:88:ALA:HB1	1.78	0.63
88:BK:268:ALA:HB2	88:BK:277:ALA:CB	2.24	0.63
25:Ay:73:LEU:CD1	25:Ay:124:ARG:NH1	2.60	0.63
43:1:16:G:O2'	43:1:17:A:OP1	2.15	0.63
43:1:1239:A:H2'	43:1:1240:G:C8	2.33	0.63
43:1:1663:A:O2'	43:1:1664:A:O5'	2.14	0.63
43:1:1666:C:O2'	43:1:1667:U:O5'	2.15	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2352:U:H2'	43:1:2353:A:C8	2.32	0.63
49:Bl:47:THR:O	49:Bl:50:GLN:NE2	2.32	0.63
63:Be:43:PHE:HD2	63:Be:64:LEU:HD23	1.63	0.63
71:Bu:9:LEU:HD22	71:Bu:13:ARG:HH11	1.62	0.63
85:2:74:A:H2'	85:2:75:C:O4'	1.98	0.63
85:2:791:A:H2'	85:2:792:C:C6	2.33	0.63
85:2:991:A:H1'	85:2:992:U:H5'	1.81	0.63
85:2:1510:G:O6	85:2:1532:G:O6	2.15	0.63
85:2:1642:U:H2'	85:2:1643:G:C8	2.33	0.63
9:Ai:51:ASN:O	9:Ai:55:GLN:NE2	2.32	0.63
20:At:67:LYS:NZ	43:1:1495:A:N7	2.46	0.63
43:1:719:U:O2'	43:1:1132:A:N1	2.28	0.63
43:1:1909:G:O2'	43:1:1910:A:OP2	2.16	0.63
46:Bf:27:ARG:O	46:Bf:27:ARG:NH2	2.31	0.63
60:Ba:111:TYR:HB2	62:Bd:349:LYS:HD3	1.80	0.63
64:Bg:10:LEU:HD22	64:Bg:73:ALA:HB2	1.81	0.63
64:Bg:68:VAL:HG13	64:Bg:69:ASN:H	1.62	0.63
65:Bj:268:PHE:HA	65:Bj:271:LYS:HE3	1.81	0.63
77:BE:77:TYR:OH	77:BE:91:MET:HE2	1.97	0.63
85:2:518:G:P	89:Bk:70:GLU:CG	2.77	0.63
85:2:590:U:H2'	85:2:591:C:H6	1.62	0.63
85:2:1490:U:H2'	85:2:1491:G:H8	1.64	0.63
85:2:1529:A:H2'	85:2:1530:A:C8	2.33	0.63
86:Az:70:VAL:HG23	86:Az:71:VAL:HG13	1.79	0.63
4:AD:113:LYS:NZ	43:1:238:C:OP2	2.22	0.63
34:AJ:29:CYS:C	34:AJ:79:ARG:HD3	2.24	0.63
43:1:1148:U:H5''	43:1:1304:G:O6	1.97	0.63
44:3:24:U:O2'	44:3:25:G:N7	2.31	0.63
47:Bh:407:ASP:OD2	47:Bh:409:ARG:NE	2.25	0.63
85:2:42:C:O2'	89:Bk:98:ILE:CD1	2.46	0.63
85:2:389:G:H2'	85:2:390:A:C8	2.33	0.63
85:2:619:U:H2'	85:2:620:G:C8	2.34	0.63
85:2:1001:A:H3'	85:2:1002:A:H8	1.63	0.63
85:2:1110:U:H1'	85:2:1529:A:C4	2.33	0.63
85:2:1380:G:H3'	85:2:1381:G:C5'	2.16	0.63
18:Ar:118:GLU:CG	18:Ar:123:VAL:CG2	2.77	0.63
43:1:2291:G:O2'	43:1:2293:C:OP2	2.17	0.63
43:1:2352:U:H2'	43:1:2353:A:H8	1.62	0.63
45:Bb:364:ARG:O	45:Bb:368:TRP:HB2	1.99	0.63
68:Bp:61:ARG:HE	85:2:283:A:H4'	1.64	0.63
85:2:419:C:O2'	85:2:617:A:N7	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:421:C:H2'	85:2:422:G:C8	2.31	0.63
85:2:1189:C:O2'	85:2:1190:C:H6	1.81	0.63
85:2:1497:C:H2'	85:2:1498:U:C6	2.33	0.63
85:2:1759:A:H2'	85:2:1760:C:H6	1.64	0.63
86:Az:62:ILE:O	86:Az:62:ILE:CG2	2.46	0.63
11:Ak:54:LEU:HD12	11:Ak:65:VAL:HG13	1.80	0.63
39:AO:68:ARG:NH1	43:1:1632:C:O2'	2.31	0.63
39:AO:282:GLU:OE1	39:AO:282:GLU:N	2.32	0.63
43:1:46:G:H2'	43:1:47:A:C8	2.32	0.63
43:1:514:C:N4	43:1:518:U:O4	2.31	0.63
43:1:690:A:H1'	43:1:691:A:H5'	1.81	0.63
43:1:756:U:N3	43:1:757:A:N7	2.47	0.63
43:1:778:U:H4'	43:1:779:U:O5'	1.97	0.63
43:1:995:G:C4'	86:Az:61:MET:CA	2.55	0.63
47:Bh:419:ALA:HB2	47:Bh:425:PHE:HE1	1.64	0.63
52:Bw:439:CYS:HB2	52:Bw:449:ARG:NH2	2.13	0.63
65:Bj:196:ILE:HG23	65:Bj:209:VAL:HG22	1.81	0.63
67:Bo:51:ARG:O	76:BD:328:SER:OG	2.16	0.63
71:Bu:7:ASP:OD1	71:Bu:10:SER:N	2.30	0.63
77:BE:273:TYR:OH	77:BE:289:GLU:OE1	2.17	0.63
85:2:198:G:H2'	85:2:199:C:O4'	1.99	0.63
85:2:1184:C:O2'	85:2:1185:C:H6	1.81	0.63
85:2:1187:G:C3'	85:2:1188:A:C5'	2.74	0.63
3:Ac:101:ILE:N	3:Ac:101:ILE:HD12	2.14	0.63
3:Ac:224:ARG:NE	43:1:2343:G:N3	2.44	0.63
6:Ae:36:VAL:HG22	6:Ae:95:SER:HB3	1.80	0.63
18:Ar:161:THR:HG21	18:Ar:164:LEU:HD11	1.81	0.63
40:AP:603:ALA:O	40:AP:605:ALA:N	2.31	0.63
43:1:137:U:C2	43:1:147:G:N1	2.56	0.63
43:1:801:U:H2'	43:1:802:C:C6	2.33	0.63
43:1:817:G:C2	43:1:948:A:H2	2.16	0.63
43:1:1483:C:H5	43:1:1485:A:C5	2.17	0.63
43:1:3038:G:H2'	43:1:3039:A:C8	2.34	0.63
50:Bm:113:LYS:HE2	51:Br:148:LYS:HB3	1.81	0.63
68:Bp:35:LYS:O	68:Bp:36:ARG:NE	2.32	0.63
77:BE:242:PRO:HA	77:BE:245:ILE:HG22	1.81	0.63
85:2:458:U:H2'	85:2:491:G:O6	1.98	0.63
85:2:970:A:H8	85:2:1573:C:C4	2.17	0.63
85:2:1594:A:H2'	85:2:1595:A:H8	1.64	0.63
85:2:1859:A:O2'	85:2:1860:U:O5'	2.16	0.63
22:Av:80:LYS:HG3	22:Av:147:TRP:NE1	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AI:35:ARG:HA	33:AI:194:VAL:HB	1.81	0.63
33:AI:112:TYR:O	33:AI:210:TRP:HA	1.99	0.63
39:AO:481:LYS:HD2	39:AO:484:LEU:HD13	1.81	0.63
43:1:65:A:H62	43:1:597:A:H1'	1.64	0.63
43:1:1022:A:N6	43:1:1046:A:O2'	2.28	0.63
45:Bb:19:ASP:OD1	45:Bb:20:SER:N	2.28	0.63
45:Bb:409:ILE:HB	45:Bb:410:PRO:HD3	1.79	0.63
52:Bw:162:ILE:HD12	52:Bw:473:ARG:HH12	1.62	0.63
53:Bx:40:LYS:HD3	53:Bx:43:ARG:HD3	1.81	0.63
61:Bc:126:LEU:HD12	61:Bc:130:ARG:HB2	1.81	0.63
64:Bg:106:PRO:HA	85:2:637:A:C8	2.34	0.63
72:Bv:71:ARG:NH2	85:2:237:G:O3'	2.32	0.63
72:Bv:126:GLU:O	72:Bv:129:LYS:HG3	1.99	0.63
39:AO:173:GLU:HB3	39:AO:176:LYS:HG3	1.81	0.62
43:1:640:G:N2	43:1:644:U:OP1	2.32	0.62
43:1:690:A:O2'	43:1:691:A:OP2	2.16	0.62
43:1:2988:G:H2'	43:1:2989:U:C6	2.34	0.62
43:1:3000:U:H2'	43:1:3001:U:C6	2.35	0.62
51:Br:149:LYS:HE2	51:Br:158:ILE:HD13	1.79	0.62
67:Bo:50:LYS:HZ3	76:BD:325:ARG:H	1.47	0.62
73:By:98:ILE:HG23	73:By:107:ALA:HB3	1.81	0.62
85:2:1215:A:O2'	85:2:1216:C:H6	1.82	0.62
86:Az:27:LEU:N	86:Az:28:PRO:HD3	2.13	0.62
1:Aa:65:ARG:NH2	43:1:2134:G:OP1	2.32	0.62
2:Ab:75:HIS:CD2	2:Ab:129:VAL:HG22	2.33	0.62
6:Ae:62:ILE:O	6:Ae:94:GLN:NE2	2.32	0.62
18:Ar:115:GLU:O	18:Ar:119:ILE:HG12	1.99	0.62
39:AO:411:GLU:O	39:AO:414:ARG:NH2	2.32	0.62
43:1:2111:A:H2'	43:1:2112:C:C6	2.34	0.62
43:1:2534:G:H2'	43:1:2535:A:H8	1.64	0.62
43:1:2548:A:H2'	43:1:2549:U:H6	1.64	0.62
43:1:2970:G:H2'	43:1:2971:G:H8	1.63	0.62
61:Bc:105:THR:HG22	61:Bc:111:PRO:HG3	1.80	0.62
61:Bc:106:ARG:HG2	61:Bc:143:HIS:HA	1.82	0.62
63:Be:53:ARG:HG3	63:Be:89:LEU:HD22	1.81	0.62
66:Bn:341:PHE:O	66:Bn:352:ARG:NH2	2.32	0.62
85:2:1210:A:O2'	85:2:1211:C:H6	1.82	0.62
85:2:1839:U:H2'	85:2:1840:U:C6	2.34	0.62
86:Az:20:TYR:HH	86:Az:51:LEU:CD2	1.20	0.62
19:As:133:GLU:HG2	19:As:134:ASP:H	1.65	0.62
41:AQ:163:LEU:HD22	41:AQ:200:LYS:HE3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:25:G:H2'	43:1:26:G:H8	1.64	0.62
43:1:66:G:O6	43:1:597:A:C6	2.53	0.62
43:1:98:U:H2'	43:1:99:C:H5'	1.80	0.62
43:1:664:G:H2'	43:1:665:C:C6	2.35	0.62
43:1:858:U:O2	43:1:860:A:N6	2.25	0.62
43:1:1573:C:O2'	43:1:1574:A:N7	2.31	0.62
61:Bc:235:PHE:HE2	76:BD:169:LYS:HE2	1.63	0.62
67:Bo:6:ARG:NH1	85:2:395:G:O3'	2.31	0.62
85:2:162:C:O2'	85:2:163:A:OP2	2.16	0.62
85:2:276:U:H2'	85:2:277:A:C8	2.33	0.62
85:2:1172:C:N4	85:2:1173:C:N4	2.47	0.62
85:2:1183:G:O2'	85:2:1184:C:H6	1.82	0.62
85:2:1218:U:O2'	85:2:1219:C:H6	1.82	0.62
85:2:1528:G:N2	85:2:1531:G:OP2	2.32	0.62
18:Ar:181:LEU:HD23	18:Ar:244:ILE:HG23	1.81	0.62
25:Ay:52:LYS:C	25:Ay:54:VAL:H	2.08	0.62
30:AF:179:HIS:CD2	44:3:34:C:H5'	2.34	0.62
43:1:100:C:H2'	43:1:101:A:H8	1.64	0.62
43:1:622:G:O2'	43:1:649:A:N6	2.29	0.62
43:1:2404:G:N7	43:1:2527:A:H2'	2.15	0.62
43:1:3116:G:H1	43:1:3149:U:H3	1.48	0.62
46:Bf:55:GLU:HA	46:Bf:58:LYS:HD3	1.81	0.62
51:Br:175:ARG:HG2	51:Br:184:ARG:CG	2.30	0.62
67:Bo:93:ARG:HG3	75:BC:74:ARG:HH11	1.64	0.62
72:Bv:78:ARG:O	72:Bv:82:LYS:HD3	1.99	0.62
76:BD:250:GLU:HB2	76:BD:252:PHE:HD2	1.64	0.62
85:2:1021:G:H2'	85:2:1022:G:O4'	1.99	0.62
85:2:1178:G:N2	85:2:1179:A:N1	2.46	0.62
85:2:1455:U:HO2'	85:2:1456:G:H8	1.47	0.62
4:AD:153:ARG:NE	43:1:2716:C:OP1	2.28	0.62
7:Af:68:PHE:O	7:Af:72:VAL:HG23	2.00	0.62
39:AO:429:ALA:HB1	39:AO:455:TYR:HE1	1.64	0.62
43:1:127:C:N4	43:1:158:A:H61	1.97	0.62
43:1:663:U:H2'	43:1:664:G:H8	1.65	0.62
43:1:1007:A:H2'	43:1:1008:G:C8	2.33	0.62
43:1:2111:A:H2'	43:1:2112:C:H6	1.64	0.62
46:Bf:17:ASN:HD21	46:Bf:25:ARG:HE	1.46	0.62
52:Bw:457:ASN:HA	52:Bw:460:LYS:HB2	1.80	0.62
54:Bz:338:LYS:HG3	85:2:1625:A:H1'	1.81	0.62
73:By:71:LYS:CD	85:2:233:A:H4'	2.26	0.62
75:BC:78:LEU:HA	75:BC:81:PHE:CD2	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:427:U:H3'	85:2:428:G:C8	2.34	0.62
85:2:731:U:H2'	85:2:732:C:H6	1.64	0.62
85:2:1402:U:O3'	85:2:1403:U:C5'	2.46	0.62
86:Az:38:LEU:HD22	86:Az:68:MET:SD	2.40	0.62
11:Ak:47:PHE:HB3	11:Ak:76:GLY:HA3	1.80	0.62
11:Ak:69:GLN:HB2	11:Ak:84:VAL:HB	1.82	0.62
17:Aq:61:HIS:CE1	17:Aq:96:LYS:HD3	2.34	0.62
39:AO:432:LEU:O	39:AO:436:LEU:HB3	1.98	0.62
39:AO:480:THR:HA	39:AO:483:LEU:HD23	1.80	0.62
43:1:953:G:C6	43:1:954:U:C4	2.87	0.62
43:1:2483:U:H2'	43:1:2484:A:H8	1.63	0.62
46:Bf:17:ASN:OD1	46:Bf:25:ARG:NH1	2.30	0.62
61:Bc:251:ARG:HA	61:Bc:254:ARG:HD2	1.82	0.62
76:BD:215:ARG:O	76:BD:219:ILE:HG12	1.99	0.62
85:2:354:C:H2'	85:2:355:G:C8	2.34	0.62
85:2:967:C:H4'	85:2:968:A:H3'	1.80	0.62
85:2:1058:C:H5'	85:2:1059:A:OP2	1.98	0.62
85:2:1170:A:N1	85:2:1401:A:N1	2.48	0.62
85:2:1206:G:O6	85:2:1381:G:O2'	2.16	0.62
5:Ad:239:VAL:O	5:Ad:261:VAL:HA	1.99	0.62
14:An:61:ARG:HD3	43:1:3008:A:H1'	1.82	0.62
21:Au:21:VAL:HA	21:Au:81:VAL:HA	1.82	0.62
43:1:995:G:H2'	43:1:996:G:H8	1.65	0.62
43:1:2396:U:H2'	43:1:2397:U:C6	2.35	0.62
43:1:2428:A:H62	43:1:2467:A:H61	1.47	0.62
43:1:2819:C:O2'	43:1:2862:C:O2'	2.16	0.62
43:1:2874:G:O2'	43:1:2877:U:OP2	2.18	0.62
44:3:5:C:H2'	44:3:6:G:C8	2.35	0.62
45:Bb:397:ASP:HA	45:Bb:400:ILE:HB	1.81	0.62
52:Bw:239:TYR:CD2	52:Bw:241:PRO:HD3	2.33	0.62
61:Bc:121:PRO:HA	61:Bc:124:ARG:HB3	1.82	0.62
85:2:497:G:H2'	85:2:498:C:C6	2.34	0.62
85:2:1452:C:O2'	85:2:1453:C:H6	1.82	0.62
85:2:1571:G:OP2	85:2:1671:C:N4	2.32	0.62
88:BK:46:ALA:O	88:BK:49:ALA:HB2	1.99	0.62
17:Aq:82:LYS:NZ	43:1:1144:A:O2'	2.24	0.62
43:1:618:A:O2'	43:1:619:A:OP1	2.17	0.62
43:1:1632:C:H1'	43:1:1633:U:H5'	1.82	0.62
43:1:2387:C:H5''	43:1:2540:G:N2	2.14	0.62
44:3:72:G:O6	44:3:105:U:O2	2.18	0.62
45:Bb:36:VAL:HG11	50:Bm:129:PHE:CE2	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BA:46:LEU:HD12	65:Bj:248:ARG:HE	1.65	0.62
73:By:60:LEU:HB2	73:By:64:GLY:HA3	1.82	0.62
85:2:859:A:H5'	85:2:1071:G:H22	1.63	0.62
85:2:1917:C:H2'	85:2:1918:U:H6	1.64	0.62
12:Al:200:ARG:O	43:1:788:G:N2	2.33	0.62
18:Ar:186:GLN:HG3	86:Az:97:SER:OG	1.98	0.62
43:1:240:A:H1'	43:1:515:G:C6	2.35	0.62
43:1:1057:A:H2'	43:1:1058:A:C8	2.35	0.62
43:1:1621:C:H1'	43:1:1622:A:OP1	2.00	0.62
43:1:2138:A:N6	43:1:2139:G:O6	2.33	0.62
43:1:2600:A:H2'	43:1:2601:A:H8	1.65	0.62
43:1:3039:A:H2'	43:1:3040:A:H8	1.65	0.62
45:Bb:423:MET:HG3	45:Bb:437:ILE:HD13	1.81	0.62
45:Bb:521:TYR:CZ	45:Bb:523:PRO:HD3	2.35	0.62
52:Bw:217:CYS:SG	52:Bw:218:GLY:N	2.73	0.62
62:Bd:497:THR:OG1	62:Bd:498:PRO:HD2	2.00	0.62
72:Bv:81:ARG:O	72:Bv:85:ILE:HG12	2.00	0.62
72:Bv:128:ARG:NH2	85:2:589:A:O3'	2.32	0.62
77:BE:43:VAL:HG22	77:BE:72:ARG:HE	1.65	0.62
85:2:274:G:H2'	85:2:275:U:H6	1.64	0.62
85:2:559:G:N7	89:Bk:15:LYS:CA	2.63	0.62
6:Ae:62:ILE:HG23	6:Ae:94:GLN:H	1.64	0.62
21:Au:58:LYS:HB2	43:1:624:A:O3'	1.98	0.62
43:1:903:G:C6	43:1:904:G:C6	2.87	0.62
43:1:1555:A:H61	43:1:1893:A:H62	1.46	0.62
48:Bi:164:THR:HA	48:Bi:176:ARG:HA	1.81	0.62
48:Bi:165:VAL:HG12	85:2:1052:U:H5''	1.81	0.62
61:Bc:124:ARG:C	61:Bc:126:LEU:H	2.08	0.62
62:Bd:474:LYS:NZ	85:2:16:A:H5'	2.14	0.62
67:Bo:50:LYS:NZ	76:BD:325:ARG:H	1.98	0.62
77:BE:307:GLU:O	77:BE:358:ARG:NH1	2.33	0.62
85:2:1145:G:H1'	85:2:1146:C:C5	2.35	0.62
85:2:1212:U:O2'	85:2:1213:C:H6	1.82	0.62
85:2:1829:C:HO2'	85:2:1830:A:P	2.22	0.62
3:Ac:251:TRP:HZ3	3:Ac:253:TYR:HA	1.65	0.61
5:Ad:170:PHE:CE2	43:1:1413:C:H4'	2.35	0.61
22:Av:178:ARG:HD2	43:1:1018:G:C4'	2.30	0.61
34:AJ:68:PHE:CE2	34:AJ:77:SER:O	2.52	0.61
39:AO:469:LEU:HA	39:AO:472:GLU:HB2	1.81	0.61
43:1:1599:A:H5'	43:1:1611:G:N2	2.15	0.61
43:1:2058:A:H2'	43:1:2059:U:C6	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2174:G:N2	43:1:2195:A:HO2'	1.98	0.61
43:1:2193:U:H2'	43:1:2194:G:O4'	2.00	0.61
61:Bc:26:SER:HA	61:Bc:45:LEU:HD21	1.81	0.61
73:By:52:ASN:H	73:By:55:GLU:HB2	1.64	0.61
85:2:192:G:H2'	85:2:193:A:C8	2.35	0.61
85:2:207:U:O4	85:2:239:G:O6	2.18	0.61
85:2:812:A:N6	85:2:1905:C:O2'	2.31	0.61
13:Am:65:PHE:N	13:Am:149:GLU:OE2	2.32	0.61
13:Am:84:GLU:HG3	13:Am:87:ARG:HH11	1.63	0.61
21:Au:36:LYS:HE2	21:Au:48:GLU:CB	2.29	0.61
28:AC:18:ALA:HA	35:AK:100:LEU:HD11	1.80	0.61
33:AI:74:LYS:HG3	33:AI:76:ARG:HH21	1.65	0.61
43:1:512:G:H1	43:1:525:U:H3	1.47	0.61
43:1:1022:A:H5''	43:1:1023:G:H8	1.64	0.61
43:1:1103:G:H1	43:1:1111:A:N6	1.98	0.61
43:1:1344:U:C2	43:1:1345:A:C8	2.88	0.61
43:1:1857:C:HO2'	43:1:1858:U:H6	1.46	0.61
49:Bl:95:GLY:C	49:Bl:97:GLU:H	2.07	0.61
77:BE:317:LEU:HD23	77:BE:321:ARG:HE	1.63	0.61
6:Ae:127:ILE:HA	6:Ae:163:ALA:HB3	1.82	0.61
14:An:69:GLY:HA2	43:1:1450:U:H4'	1.81	0.61
36:AL:24:GLY:HA3	43:1:1110:G:N7	2.15	0.61
39:AO:157:SER:O	39:AO:160:SER:OG	2.16	0.61
40:AP:672:ALA:HB2	40:AP:704:ALA:HA	1.82	0.61
41:AQ:430:LYS:HB3	43:1:144:U:N3	2.15	0.61
43:1:199:G:H2'	43:1:200:G:C8	2.35	0.61
43:1:986:G:H2'	43:1:987:A:H8	1.63	0.61
43:1:2161:U:H2'	43:1:2162:G:H8	1.65	0.61
43:1:2182:G:H1'	43:1:2188:A:N6	2.16	0.61
43:1:2983:C:O2	43:1:3027:A:N6	2.34	0.61
45:Bb:350:TYR:CE2	45:Bb:352:ASN:HB3	2.35	0.61
77:BE:62:LEU:HG	77:BE:96:LYS:HZ1	1.64	0.61
85:2:731:U:H2'	85:2:732:C:C6	2.35	0.61
85:2:1177:U:C4	85:2:1178:G:C6	2.88	0.61
85:2:1471:A:H2'	85:2:1472:A:C8	2.36	0.61
85:2:1903:A:H2'	85:2:1904:G:H8	1.65	0.61
17:Aq:42:LYS:NZ	43:1:678:G:OP1	2.25	0.61
21:Au:81:VAL:HG22	21:Au:89:PRO:HG3	1.81	0.61
23:Aw:94:ASP:CG	23:Aw:126:HIS:HB2	2.25	0.61
38:AN:169:ALA:O	38:AN:173:ILE:HG12	2.01	0.61
39:AO:86:MET:N	39:AO:86:MET:SD	2.73	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:AQ:151:ASP:OD2	41:AQ:180:SER:OG	2.14	0.61
43:1:51:A:H2'	43:1:52:A:H8	1.65	0.61
43:1:761:C:N4	43:1:762:A:H62	1.98	0.61
43:1:1467:G:N2	43:1:1470:U:C4	2.68	0.61
43:1:2703:G:H1'	43:1:2709:A:H62	1.64	0.61
52:Bw:147:GLU:O	52:Bw:151:LYS:NZ	2.34	0.61
64:Bg:93:LEU:HD13	64:Bg:129:TYR:HB3	1.82	0.61
85:2:26:U:H4'	85:2:1070:U:H3	1.65	0.61
85:2:115:U:HO2'	85:2:116:A:H8	1.49	0.61
6:Ae:137:GLU:OE1	49:Bl:33:ARG:NH1	2.34	0.61
16:Ap:148:ASN:CB	16:Ap:150:ARG:HD3	2.31	0.61
20:At:42:ILE:HD13	31:AG:60:LEU:HD22	1.82	0.61
28:AC:24:TYR:OH	43:1:2645:C:O2'	2.18	0.61
39:AO:56:TRP:HZ3	43:1:1647:U:H3	1.46	0.61
41:AQ:334:LYS:NZ	43:1:135:C:OP2	2.30	0.61
41:AQ:345:PHE:HA	41:AQ:348:MET:HE3	1.82	0.61
43:1:1021:U:O2'	43:1:1047:A:N6	2.33	0.61
43:1:1545:C:O2'	43:1:1546:A:H5'	2.01	0.61
43:1:1854:C:H4'	43:1:1855:G:H5'	1.82	0.61
43:1:2057:G:O2'	43:1:2058:A:O4'	2.12	0.61
43:1:2119:A:H2'	43:1:2120:A:C8	2.36	0.61
43:1:2218:G:O6	43:1:2235:C:N4	2.33	0.61
43:1:3043:A:N6	43:1:3058:G:O2'	2.33	0.61
48:Bi:145:TRP:HB2	48:Bi:208:ARG:HH11	1.66	0.61
50:Bm:163:SER:HB2	85:2:1537:G:H21	1.64	0.61
85:2:163:A:H2'	85:2:164:A:C4	2.34	0.61
26:AA:43:GLN:OE1	26:AA:51:ILE:HG23	2.00	0.61
32:AH:17:CYS:SG	32:AH:18:ASN:N	2.73	0.61
33:AI:117:GLY:HA2	33:AI:130:HIS:ND1	2.15	0.61
39:AO:275:GLY:O	39:AO:279:LYS:HD2	2.00	0.61
43:1:663:U:H2'	43:1:664:G:C8	2.34	0.61
43:1:2116:G:N2	43:1:2136:A:OP2	2.30	0.61
61:Bc:180:ILE:HD12	61:Bc:184:LEU:HD13	1.83	0.61
68:Bp:13:MET:O	85:2:273:G:O2'	2.18	0.61
85:2:202:A:H2'	85:2:203:A:H8	1.65	0.61
85:2:581:G:H2'	85:2:582:G:C8	2.36	0.61
85:2:1435:U:O4	85:2:1436:A:N6	2.33	0.61
85:2:1740:U:H2'	85:2:1741:G:C8	2.36	0.61
85:2:1813:U:H3	85:2:1833:A:H61	1.45	0.61
2:Ab:141:LYS:HB2	43:1:873:G:N7	2.14	0.61
3:Ac:100:SER:O	3:Ac:263:TRP:HA	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ae:10:ASP:OD1	6:Ae:11:VAL:N	2.33	0.61
21:Au:138:THR:OG1	21:Au:141:GLU:OE2	2.19	0.61
22:Av:188:GLY:HA3	22:Av:221:LEU:HD23	1.81	0.61
25:Ay:52:LYS:HB3	25:Ay:54:VAL:HG22	1.81	0.61
43:1:732:A:H2'	43:1:733:G:H8	1.65	0.61
43:1:838:G:C6	43:1:912:G:C6	2.89	0.61
43:1:2670:G:H2'	43:1:2671:A:H8	1.65	0.61
47:Bh:428:VAL:HG21	85:2:963:C:H41	1.66	0.61
49:Bl:116:ARG:NH1	85:2:1657:U:OP1	2.34	0.61
50:Bm:77:ARG:HH11	50:Bm:125:ASN:HA	1.66	0.61
51:Br:146:LEU:HD11	51:Br:150:LYS:HZ3	1.60	0.61
61:Bc:180:ILE:O	61:Bc:192:ARG:NE	2.21	0.61
85:2:1392:A:HO2'	85:2:1393:G:H8	1.48	0.61
85:2:1525:G:H2'	85:2:1526:A:H8	1.64	0.61
85:2:1637:A:N3	85:2:1701:C:O2'	2.27	0.61
85:2:1653:G:N2	85:2:1683:G:O6	2.34	0.61
1:Aa:83:MET:HG3	1:Aa:84:ASN:HD22	1.65	0.61
13:Am:174:LYS:NZ	22:Av:137:THR:O	2.29	0.61
14:An:84:TYR:HB3	14:An:87:ARG:HB3	1.81	0.61
17:Aq:1:MET:HG3	17:Aq:3:LYS:H	1.66	0.61
25:Ay:114:MET:HA	25:Ay:117:ILE:HD12	1.82	0.61
43:1:754:C:O2	43:1:800:U:O2'	2.19	0.61
43:1:1836:C:HO2'	43:1:1837:G:H8	1.49	0.61
43:1:3021:G:H21	43:1:3146:A:H2	1.46	0.61
44:3:2:A:OP2	44:3:2:A:C2'	2.48	0.61
48:Bi:147:LEU:N	48:Bi:148:PRO:HD3	2.15	0.61
52:Bw:189:ARG:HD2	52:Bw:191:ALA:HB3	1.83	0.61
57:BG:261:GLU:H	57:BG:262:ALA:HA	1.66	0.61
60:Ba:138:ASP:OD1	60:Ba:139:SER:N	2.31	0.61
61:Bc:209:ARG:HG3	61:Bc:210:LEU:N	2.15	0.61
63:Be:11:LYS:NZ	63:Be:56:ASP:OD2	2.32	0.61
84:BL:33:ALA:O	84:BL:37:ALA:CB	2.48	0.61
85:2:1156:G:H8	85:2:1158:A:H2	1.48	0.61
85:2:1775:U:H2'	85:2:1776:C:C6	2.35	0.61
13:Am:168:LYS:O	43:1:2782:G:O2'	2.18	0.61
19:As:114:LYS:HZ3	43:1:1479:C:P	2.24	0.61
26:AA:37:HIS:H	26:AA:56:ARG:HH11	1.49	0.61
39:AO:270:LEU:O	39:AO:274:TYR:N	2.31	0.61
39:AO:311:LYS:O	39:AO:313:ASN:ND2	2.34	0.61
40:AP:374:ALA:N	40:AP:375:ALA:HB3	2.15	0.61
41:AQ:190:ARG:NH1	43:1:1916:A:N1	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:920:G:N1	43:1:2383:C:OP1	2.31	0.61
43:1:1192:C:O2'	43:1:1197:A:H4'	2.01	0.61
43:1:1510:A:H2'	43:1:1511:A:H8	1.65	0.61
43:1:1594:G:H1'	43:1:1595:A:H5'	1.82	0.61
43:1:1903:A:HO2'	43:1:1904:A:H8	1.49	0.61
43:1:2347:C:H2'	43:1:2348:G:H8	1.66	0.61
43:1:2438:G:H21	43:1:2469:A:H1'	1.65	0.61
43:1:2639:G:H2'	43:1:2640:C:C6	2.36	0.61
43:1:2927:U:H2'	43:1:2928:A:C8	2.36	0.61
54:Bz:317:VAL:O	54:Bz:346:GLU:HA	2.00	0.61
65:Bj:215:ASN:HA	85:2:678:G:H22	1.66	0.61
76:BD:283:ASP:HB3	76:BD:286:GLU:HB3	1.82	0.61
77:BE:201:ALA:HB3	77:BE:320:ILE:HD11	1.83	0.61
85:2:1431:G:HO2'	85:2:1432:A:H8	1.46	0.61
85:2:1648:A:N3	85:2:1648:A:H5''	2.15	0.61
85:2:1829:C:O2'	85:2:1830:A:O5'	2.16	0.61
86:Az:74:GLU:H	86:Az:74:GLU:CD	2.09	0.61
3:Ac:208:SER:O	3:Ac:208:SER:OG	2.19	0.61
5:Ad:223:THR:N	43:1:454:A:OP2	2.34	0.61
6:Ae:46:ILE:HG23	6:Ae:49:GLY:HA3	1.83	0.61
18:Ar:186:GLN:HB3	86:Az:97:SER:OG	1.98	0.61
25:Ay:130:ASP:HB2	43:1:155:U:H5''	1.83	0.61
40:AP:579:ALA:HB1	40:AP:584:ALA:HB3	1.83	0.61
43:1:800:U:H2'	43:1:801:U:H6	1.66	0.61
43:1:903:G:O6	43:1:904:G:O6	2.18	0.61
43:1:2548:A:H2'	43:1:2549:U:C6	2.36	0.61
43:1:2677:G:H2'	43:1:2678:U:C6	2.36	0.61
43:1:2705:G:H2'	43:1:2706:U:C6	2.35	0.61
43:1:2879:G:H2'	43:1:2879:G:N3	2.16	0.61
49:Bl:102:VAL:O	49:Bl:106:ILE:HG12	2.01	0.61
62:Bd:310:ASP:O	62:Bd:313:LEU:HG	2.01	0.61
85:2:739:U:H2'	85:2:740:C:C6	2.36	0.61
85:2:1589:A:O2'	85:2:1647:C:N4	2.23	0.61
85:2:1718:C:H2'	85:2:1719:G:C8	2.36	0.61
85:2:1810:U:H2'	85:2:1811:U:C5	2.36	0.61
33:AI:115:ILE:O	33:AI:130:HIS:N	2.26	0.60
35:AK:44:TRP:HD1	43:1:546:A:N6	1.99	0.60
37:AM:114:VAL:O	37:AM:117:SER:OG	2.19	0.60
39:AO:213:GLU:HA	39:AO:216:ILE:HD12	1.83	0.60
43:1:1017:G:O6	43:1:1052:A:N6	2.33	0.60
43:1:1429:U:O2'	43:1:1430:A:OP2	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1652:U:O2'	43:1:1653:C:H5'	2.00	0.60
43:1:1846:U:O2'	43:1:1850:G:N7	2.33	0.60
43:1:2438:G:O2'	43:1:2439:G:O5'	2.19	0.60
43:1:2595:G:H2'	43:1:2596:G:H8	1.66	0.60
48:Bi:166:LEU:HA	85:2:1052:U:H4'	1.83	0.60
49:Bl:115:TYR:HD1	51:Br:201:PHE:HB2	1.65	0.60
53:Bx:90:LYS:NZ	85:2:1562:U:OP1	2.29	0.60
61:Bc:95:SER:HG	61:Bc:99:PHE:HE2	1.45	0.60
64:Bg:100:TYR:HB2	64:Bg:128:PHE:HD2	1.65	0.60
85:2:26:U:HO2'	85:2:858:A:HO2'	1.47	0.60
85:2:469:C:H2'	85:2:470:G:C8	2.36	0.60
85:2:502:G:H2'	85:2:503:G:H8	1.66	0.60
85:2:922:G:N3	85:2:922:G:C2'	2.59	0.60
85:2:1423:U:HO3'	85:2:1424:G:P	2.09	0.60
85:2:1424:G:HO2'	85:2:1425:U:H6	1.49	0.60
85:2:1437:A:O2'	85:2:1438:G:N9	2.34	0.60
87:Ah:50:THR:HG22	87:Ah:85:VAL:HG23	1.81	0.60
3:Ac:76:ARG:NH1	3:Ac:175:HIS:O	2.34	0.60
3:Ac:127:CYS:O	3:Ac:152:ARG:N	2.33	0.60
6:Ae:98:ARG:NH2	44:3:45:C:O2	2.34	0.60
7:Af:33:TYR:HD1	43:1:2969:U:H1'	1.66	0.60
12:Al:213:ARG:HE	12:Al:252:VAL:HG11	1.66	0.60
16:Ap:141:LEU:HA	16:Ap:195:VAL:HG13	1.82	0.60
31:AG:25:ILE:HG21	43:1:120:A:N7	2.16	0.60
43:1:431:G:N1	43:1:472:U:OP2	2.33	0.60
43:1:1238:A:O2'	43:1:1239:A:N7	2.34	0.60
43:1:2487:G:H2'	43:1:2488:G:H8	1.66	0.60
43:1:2584:G:N2	43:1:2723:A:N7	2.49	0.60
43:1:2826:U:OP2	43:1:2828:A:N6	2.34	0.60
44:3:113:C:H2'	44:3:114:G:H8	1.66	0.60
48:Bi:206:ARG:NH2	48:Bi:207:TYR:OH	2.34	0.60
52:Bw:464:LEU:O	52:Bw:466:ASN:N	2.34	0.60
66:Bn:400:ASP:OD1	66:Bn:401:SER:N	2.32	0.60
85:2:40:A:H2'	85:2:41:A:C8	2.36	0.60
85:2:971:A:H61	85:2:1665:G:H1'	1.66	0.60
85:2:1055:C:H3'	85:2:1056:G:H8	1.66	0.60
85:2:1373:U:O2'	85:2:1374:C:H6	1.81	0.60
85:2:1437:A:O2'	85:2:1438:G:C8	2.50	0.60
87:Ah:64:LEU:HD22	87:Ah:69:TRP:HB2	1.83	0.60
89:Bk:30:LYS:HB2	89:Bk:30:LYS:NZ	2.16	0.60
10:Aj:92:ARG:NE	10:Aj:103:GLU:OE2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Aj:143:GLU:N	10:Aj:143:GLU:OE1	2.33	0.60
14:An:38:ALA:HB1	14:An:110:ILE:HD12	1.83	0.60
43:1:976:U:H2'	43:1:977:A:C8	2.37	0.60
43:1:1324:G:H1	43:1:1330:U:H3	1.49	0.60
43:1:3097:A:N6	43:1:3098:A:H62	1.99	0.60
67:Bo:9:ARG:HE	67:Bo:16:PRO:HB3	1.66	0.60
77:BE:199:TYR:HD1	77:BE:200:LEU:HD23	1.66	0.60
85:2:1402:U:C3'	85:2:1403:U:H5''	2.32	0.60
85:2:1431:G:O2'	85:2:1432:A:P	2.59	0.60
85:2:1615:U:O2	85:2:1620:G:O6	2.19	0.60
85:2:1648:A:O2'	85:2:1650:U:O4'	2.15	0.60
86:Az:28:PRO:O	86:Az:35:ARG:NH1	2.34	0.60
89:Bk:51:LYS:HD3	89:Bk:72:HIS:CE1	2.37	0.60
14:An:118:GLU:OE2	14:An:122:SER:N	2.32	0.60
41:AQ:150:VAL:HB	41:AQ:162:MET:HG3	1.83	0.60
43:1:230:G:H1'	43:1:515:G:H22	1.66	0.60
43:1:433:A:H2'	43:1:467:C:H1'	1.81	0.60
43:1:485:A:O2'	43:1:486:U:O5'	2.19	0.60
43:1:1201:C:H2'	43:1:1202:C:C6	2.36	0.60
43:1:3127:C:H2'	43:1:3128:A:C8	2.37	0.60
44:3:30:C:H2'	44:3:31:A:H8	1.67	0.60
47:Bh:370:GLY:N	85:2:1600:A:H4'	2.17	0.60
61:Bc:131:ARG:HG2	61:Bc:138:MET:HE3	1.83	0.60
67:Bo:4:ARG:NE	85:2:396:G:OP1	2.35	0.60
85:2:406:G:O2'	85:2:407:A:OP2	2.18	0.60
85:2:1044:U:O2	85:2:1556:G:O6	2.18	0.60
85:2:1142:A:HO2'	85:2:1465:G:H1	1.50	0.60
85:2:1189:C:C2	85:2:1381:G:N1	2.64	0.60
85:2:1458:C:C4	85:2:1459:A:N6	2.70	0.60
85:2:1485:G:O2'	85:2:1486:U:OP2	2.17	0.60
86:Az:75:GLU:OE1	86:Az:75:GLU:HA	2.00	0.60
88:BK:170:ALA:HA	88:BK:204:ALA:HB2	1.83	0.60
16:Ap:176:LEU:O	16:Ap:176:LEU:HG	2.00	0.60
22:Av:41:ARG:NH2	44:3:78:U:O3'	2.28	0.60
29:AE:8:LYS:H	29:AE:35:GLN:HE22	1.49	0.60
41:AQ:157:LYS:HE3	43:1:1916:A:C8	2.36	0.60
43:1:575:U:H1'	43:1:576:C:H5	1.66	0.60
43:1:1233:G:O6	87:Ah:32:LEU:O	2.19	0.60
43:1:3042:A:N6	43:1:3058:G:O2'	2.34	0.60
43:1:3098:A:H2'	43:1:3099:C:O4'	2.01	0.60
44:3:4:C:H2'	44:3:5:C:C6	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:3:103:G:H2'	44:3:104:G:H8	1.66	0.60
51:Br:208:HIS:HB3	85:2:1577:A:N9	2.17	0.60
61:Bc:19:PHE:HB2	61:Bc:31:ASN:ND2	2.17	0.60
61:Bc:60:LYS:O	61:Bc:62:TYR:N	2.31	0.60
67:Bo:15:ARG:HB2	85:2:618:G:H21	1.67	0.60
77:BE:147:VAL:HA	77:BE:169:VAL:HG23	1.83	0.60
85:2:931:A:N3	85:2:1725:U:O2'	2.32	0.60
85:2:1370:A:O2'	85:2:1371:C:H6	1.82	0.60
14:An:36:THR:HG21	43:1:1986:G:H4'	1.82	0.60
18:Ar:161:THR:OG1	18:Ar:234:THR:O	2.17	0.60
24:Ax:83:TYR:N	24:Ax:108:ASP:OD2	2.30	0.60
28:AC:42:TYR:CE2	43:1:2669:A:H1'	2.36	0.60
43:1:1007:A:O2'	44:3:98:G:O2'	2.17	0.60
47:Bh:422:ARG:NE	85:2:1694:U:OP1	2.35	0.60
54:Bz:326:LYS:NZ	85:2:1481:A:OP1	2.34	0.60
60:Ba:117:ARG:NH2	60:Ba:124:CYS:O	2.34	0.60
68:Bp:26:HIS:HE1	68:Bp:28:LYS:HG3	1.65	0.60
85:2:1400:C:O2'	85:2:1401:A:C8	2.53	0.60
86:Az:30:THR:HG23	86:Az:35:ARG:CG	2.31	0.60
32:AH:41:ASN:HB3	32:AH:44:LEU:HG	1.82	0.60
43:1:25:G:C6	43:1:661:G:C5	2.90	0.60
43:1:1209:U:N3	43:1:1237:A:C8	2.65	0.60
43:1:1585:U:O2'	43:1:1586:C:O5'	2.13	0.60
43:1:1906:U:C4	43:1:1924:G:O6	2.55	0.60
43:1:1947:C:N4	43:1:1948:G:N7	2.50	0.60
43:1:2058:A:O2'	43:1:2059:U:O4'	2.19	0.60
43:1:2356:A:H2'	43:1:2357:A:C8	2.35	0.60
43:1:2625:A:C6	43:1:2626:A:C6	2.89	0.60
43:1:2929:A:H1'	43:1:2930:A:C4	2.37	0.60
47:Bh:321:ILE:HG12	47:Bh:363:ILE:HG22	1.83	0.60
49:Bl:46:LYS:HE2	49:Bl:46:LYS:H	1.67	0.60
60:Ba:73:ASN:N	60:Ba:138:ASP:OD2	2.35	0.60
61:Bc:224:MET:HE2	76:BD:248:TYR:HA	1.84	0.60
65:Bj:248:ARG:HG2	65:Bj:251:LYS:NZ	2.16	0.60
78:BI:71:ALA:HB2	78:BI:102:ALA:HB3	1.83	0.60
85:2:859:A:HO2'	85:2:911:A:HO2'	1.49	0.60
85:2:985:U:H5''	85:2:986:G:N3	2.17	0.60
85:2:1691:C:H2'	85:2:1692:G:H8	1.67	0.60
85:2:1899:A:OP1	85:2:1927:A:O2'	2.18	0.60
88:BK:80:ALA:HB2	88:BK:92:ALA:CB	2.20	0.60
18:Ar:172:LYS:HA	18:Ar:201:ALA:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:Au:88:ARG:HG3	21:Au:88:ARG:O	2.01	0.60
43:1:176:A:H2'	43:1:177:C:H6	1.65	0.60
43:1:228:U:OP2	43:1:239:G:N1	2.34	0.60
43:1:853:A:H2'	43:1:854:G:C8	2.37	0.60
43:1:2396:U:H3	43:1:2536:G:H1	1.48	0.60
43:1:2549:U:H2'	43:1:2550:C:H6	1.66	0.60
46:Bf:67:GLY:HA3	46:Bf:72:ILE:HA	1.83	0.60
52:Bw:328:SER:OG	52:Bw:331:ALA:N	2.25	0.60
54:Bz:317:VAL:HG12	54:Bz:318:THR:H	1.67	0.60
77:BE:90:LEU:HD12	77:BE:91:MET:H	1.66	0.60
85:2:1191:U:O4	85:2:1204:A:C2	2.54	0.60
87:Ah:121:TYR:HD1	87:Ah:126:TYR:HD1	1.28	0.60
88:BK:117:ALA:H	88:BK:121:ALA:HB2	1.67	0.60
1:Aa:83:MET:HG3	1:Aa:84:ASN:ND2	2.16	0.60
2:Ab:104:GLY:O	2:Ab:120:ALA:N	2.35	0.60
3:Ac:205:MET:HE2	3:Ac:206:PRO:HD2	1.83	0.60
9:Ai:80:LYS:HG3	9:Ai:81:SER:N	2.17	0.60
10:Aj:139:LEU:O	10:Aj:140:ARG:NE	2.35	0.60
18:Ar:230:ARG:NH2	43:1:1379:G:OP2	2.34	0.60
24:Ax:53:ILE:H	24:Ax:53:ILE:HD12	1.67	0.60
34:AJ:60:PHE:H	34:AJ:63:GLY:HA2	1.66	0.60
43:1:1332:U:O2'	43:1:1333:U:O5'	2.15	0.60
43:1:2812:U:H2'	43:1:2813:C:C6	2.37	0.60
45:Bb:515:PHE:O	45:Bb:517:HIS:ND1	2.35	0.60
85:2:130:U:O2'	85:2:131:G:H8	1.85	0.60
85:2:702:U:H2'	85:2:703:A:C8	2.37	0.60
85:2:1569:U:C2	85:2:1570:G:C8	2.90	0.60
85:2:1845:G:C6	85:2:1846:G:C6	2.90	0.60
7:Af:61:ASP:O	7:Af:65:VAL:HG23	2.02	0.60
15:Ao:36:HIS:CG	15:Ao:38:PRO:HD2	2.37	0.60
18:Ar:121:TYR:O	18:Ar:176:THR:N	2.35	0.60
18:Ar:193:ILE:HD13	86:Az:90:LEU:HA	1.81	0.60
25:Ay:56:TYR:HB3	31:AG:76:TYR:OH	2.01	0.60
33:AI:28:VAL:HB	33:AI:187:ARG:HG3	1.83	0.60
39:AO:437:LYS:HB2	39:AO:451:LEU:HD21	1.84	0.60
41:AQ:394:LYS:NZ	41:AQ:426:LYS:O	2.35	0.60
43:1:561:C:H2'	43:1:562:U:C6	2.36	0.60
43:1:691:A:O2'	43:1:692:G:O5'	2.19	0.60
43:1:1935:C:H2'	43:1:1936:G:H8	1.66	0.60
43:1:1997:C:O2'	43:1:2989:U:OP1	2.19	0.60
43:1:2045:C:HO2'	43:1:2046:U:H6	1.48	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2047:C:N3	43:1:2063:G:N1	2.49	0.60
43:1:2147:C:H2'	43:1:2148:A:H8	1.66	0.60
52:Bw:246:TRP:CD1	52:Bw:386:THR:HG1	2.20	0.60
52:Bw:466:ASN:HB2	52:Bw:471:GLU:HB3	1.83	0.60
63:Be:21:ASP:OD1	63:Be:22:LEU:N	2.35	0.60
88:BK:186:ALA:HB3	88:BK:189:ALA:HB3	1.84	0.60
6:Ae:139:SER:O	6:Ae:143:GLU:HG2	2.02	0.59
13:Am:131:LYS:HZ2	43:1:1103:G:H5''	1.67	0.59
18:Ar:209:ASP:OD1	18:Ar:210:GLU:N	2.35	0.59
29:AE:17:VAL:HG11	29:AE:19:ARG:HH21	1.65	0.59
36:AL:61:ASP:O	86:Az:17:GLN:CB	2.50	0.59
39:AO:282:GLU:HA	39:AO:285:ARG:HE	1.67	0.59
40:AP:374:ALA:H	40:AP:375:ALA:HB3	1.67	0.59
43:1:785:G:H2'	43:1:786:G:H8	1.67	0.59
43:1:1885:U:H2'	43:1:1886:U:C6	2.37	0.59
43:1:1906:U:N3	43:1:1907:G:N7	2.49	0.59
43:1:2211:A:H5'	43:1:2281:A:H5''	1.84	0.59
43:1:2813:C:H2'	43:1:2814:A:C8	2.35	0.59
43:1:3131:G:N1	43:1:3135:G:C6	2.69	0.59
49:Bl:118:SER:OG	51:Br:206:LYS:NZ	2.34	0.59
50:Bm:104:ARG:O	50:Bm:108:ARG:HB3	2.02	0.59
68:Bp:25:PHE:CE1	85:2:257:G:H5''	2.37	0.59
85:2:517:A:HO2'	89:Bk:70:GLU:CD	2.08	0.59
85:2:590:U:H2'	85:2:591:C:C6	2.37	0.59
85:2:1429:A:H3'	85:2:1430:C:H5''	1.79	0.59
85:2:1447:G:HO2'	85:2:1448:U:H6	1.50	0.59
85:2:1803:C:N4	85:2:1804:C:N3	2.50	0.59
88:BK:265:ALA:HB2	88:BK:296:ALA:HB1	1.84	0.59
3:Ac:176:PHE:HE1	3:Ac:281:ALA:HB3	1.67	0.59
6:Ae:153:ARG:HB3	6:Ae:155:PHE:HB2	1.85	0.59
21:Au:35:ILE:CG1	21:Au:47:VAL:HG12	2.27	0.59
40:AP:728:ALA:O	40:AP:731:ALA:N	2.23	0.59
43:1:441:G:H2'	43:1:442:A:C8	2.37	0.59
43:1:496:C:H2'	43:1:497:U:C6	2.37	0.59
43:1:953:G:N1	43:1:954:U:N3	2.50	0.59
43:1:2677:G:H2'	43:1:2678:U:H6	1.67	0.59
77:BE:357:ALA:HA	77:BE:361:ASP:HB3	1.83	0.59
78:BI:13:ALA:O	78:BI:18:ALA:N	2.33	0.59
79:BJ:96:ALA:HB1	79:BJ:108:ALA:HB1	1.83	0.59
85:2:944:G:H2'	85:2:945:U:C6	2.37	0.59
85:2:1031:U:O2'	85:2:1032:U:O4'	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1588:A:N7	85:2:1652:C:H1'	2.17	0.59
85:2:1613:G:C6	85:2:1623:G:N2	2.71	0.59
86:Az:30:THR:HG22	86:Az:35:ARG:HE	1.67	0.59
5:Ad:189:ASN:HB2	5:Ad:192:VAL:HG12	1.83	0.59
6:Ae:110:LEU:HD21	6:Ae:177:LEU:HB2	1.84	0.59
22:Av:181:ARG:HB2	22:Av:232:VAL:HG13	1.83	0.59
43:1:486:U:O2'	43:1:487:G:N7	2.27	0.59
43:1:800:U:H2'	43:1:801:U:C6	2.36	0.59
43:1:1359:U:H2'	43:1:1397:A:N6	2.17	0.59
43:1:1971:U:H2'	43:1:1972:A:C8	2.37	0.59
43:1:2265:G:HO2'	43:1:2267:A:H62	1.49	0.59
54:Bz:306:TRP:CH2	54:Bz:308:PRO:HA	2.37	0.59
77:BE:192:LEU:HD23	77:BE:197:GLY:N	2.17	0.59
85:2:669:G:H2'	85:2:670:A:C8	2.28	0.59
85:2:1211:C:O2'	85:2:1212:U:P	2.61	0.59
88:BK:38:ALA:C	88:BK:40:ALA:H	2.10	0.59
19:As:189:ALA:N	19:As:197:GLY:O	2.32	0.59
36:AL:39:ASN:ND2	43:1:1150:A:OP2	2.35	0.59
39:AO:56:TRP:HZ2	43:1:1570:C:H1'	1.67	0.59
39:AO:148:LYS:O	39:AO:152:LEU:HG	2.01	0.59
43:1:301:U:O2'	43:1:302:U:OP2	2.17	0.59
43:1:1234:A:H62	87:Ah:34:VAL:HB	1.67	0.59
43:1:1940:C:H2'	43:1:1941:C:O4'	2.01	0.59
44:3:103:G:H2'	44:3:104:G:C8	2.37	0.59
48:Bi:167:ARG:NH1	85:2:1552:G:H22	2.00	0.59
50:Bm:105:ASP:HA	50:Bm:108:ARG:HB3	1.85	0.59
61:Bc:185:HIS:HA	61:Bc:192:ARG:HD2	1.84	0.59
62:Bd:474:LYS:HZ2	85:2:16:A:H5'	1.68	0.59
69:Bq:217:ARG:HH12	85:2:669:G:H1'	1.68	0.59
72:Bv:161:ILE:HG22	72:Bv:163:GLU:H	1.66	0.59
76:BD:226:GLU:O	76:BD:230:GLU:HG3	2.03	0.59
85:2:592:G:O2'	85:2:636:A:N1	2.30	0.59
85:2:1044:U:C2	85:2:1556:G:O6	2.55	0.59
85:2:1407:G:O2'	85:2:1408:C:P	2.59	0.59
85:2:1427:G:HO2'	85:2:1428:G:H8	1.50	0.59
85:2:1452:C:O2'	85:2:1453:C:P	2.61	0.59
85:2:1641:U:H2'	85:2:1642:U:C6	2.37	0.59
89:Bk:111:ARG:HG2	89:Bk:122:PRO:HG2	1.84	0.59
89:Bk:114:ARG:HB2	89:Bk:119:ALA:HB3	1.85	0.59
3:Ac:86:MET:HE3	3:Ac:100:SER:HB2	1.85	0.59
14:An:103:ASP:CG	43:1:1443:A:H62	2.10	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:As:158:ARG:HG3	19:As:172:LEU:HD12	1.84	0.59
22:Av:109:LEU:HD21	22:Av:145:PHE:HE2	1.68	0.59
35:AK:112:LYS:HD2	35:AK:115:ARG:HH11	1.67	0.59
39:AO:389:LEU:HD21	39:AO:435:ILE:HG21	1.83	0.59
43:1:173:C:O2'	43:1:1522:A:N6	2.35	0.59
43:1:541:C:H1'	43:1:542:G:C8	2.37	0.59
43:1:3039:A:H2'	43:1:3040:A:C8	2.36	0.59
47:Bh:393:ASP:OD1	47:Bh:393:ASP:N	2.34	0.59
60:Ba:26:HIS:CE1	60:Ba:166:LEU:HB2	2.38	0.59
64:Bg:85:ILE:O	64:Bg:89:THR:HG22	2.02	0.59
77:BE:46:GLU:HG3	77:BE:53:ALA:HB3	1.85	0.59
85:2:944:G:C6	85:2:1581:G:C6	2.91	0.59
85:2:1181:G:H2'	85:2:1182:U:P	2.36	0.59
85:2:1190:C:HO2'	85:2:1191:U:H6	1.51	0.59
85:2:1431:G:O2'	85:2:1432:A:C8	2.53	0.59
14:An:42:ARG:HD3	14:An:94:LEU:HD13	1.84	0.59
22:Av:178:ARG:NE	43:1:1018:G:H5''	2.18	0.59
43:1:1327:G:O2'	43:1:1328:C:O4'	2.19	0.59
43:1:2437:A:H4'	43:1:2438:G:O4'	2.01	0.59
43:1:2493:U:O2'	43:1:2526:G:N2	2.30	0.59
43:1:2961:G:N2	43:1:2963:G:O5'	2.36	0.59
47:Bh:415:LYS:NZ	85:2:1536:G:O3'	2.25	0.59
49:Bl:113:ASP:O	51:Br:191:LYS:CE	2.50	0.59
52:Bw:435:ALA:HB3	52:Bw:458:TRP:CD1	2.37	0.59
61:Bc:85:THR:OG1	61:Bc:86:GLU:OE2	2.20	0.59
63:Be:9:LEU:HB3	63:Be:90:ARG:HB2	1.85	0.59
64:Bg:4:ARG:NH2	85:2:584:G:H5'	2.18	0.59
71:Bu:85:TYR:HA	71:Bu:88:ARG:HB3	1.83	0.59
85:2:343:G:N1	85:2:346:A:OP2	2.36	0.59
85:2:377:U:H2'	85:2:378:G:H8	1.68	0.59
85:2:839:G:H4'	85:2:840:C:OP1	2.03	0.59
85:2:840:C:H1'	85:2:841:A:O4'	2.03	0.59
85:2:990:U:O4	85:2:991:A:N6	2.34	0.59
85:2:1384:G:O2'	85:2:1385:C:P	2.61	0.59
85:2:1499:C:O2	85:2:1630:A:N6	2.18	0.59
85:2:1719:G:C2	85:2:1720:G:C8	2.90	0.59
86:Az:30:THR:CG2	86:Az:35:ARG:CG	2.81	0.59
88:BK:80:ALA:CB	88:BK:89:ALA:HA	2.21	0.59
4:AD:116:SER:OG	43:1:237:G:O6	2.19	0.59
12:Al:213:ARG:NH2	12:Al:265:ILE:O	2.36	0.59
22:Av:205:ASP:HB2	22:Av:208:ASP:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:430:U:H3	43:1:474:G:H1	1.49	0.59
43:1:995:G:O4'	86:Az:61:MET:CB	2.42	0.59
43:1:1877:G:O2'	43:1:1878:U:O5'	2.18	0.59
43:1:1902:G:O2'	43:1:1903:A:H8	1.86	0.59
43:1:2070:G:C2	43:1:2073:C:C2	2.89	0.59
51:Br:157:LYS:HD2	51:Br:159:TRP:HE1	1.68	0.59
85:2:202:A:H2'	85:2:203:A:C8	2.38	0.59
85:2:1679:U:H5	85:2:1680:G:C5	2.20	0.59
85:2:1766:G:H2'	85:2:1878:G:N2	2.18	0.59
5:Ad:213:PHE:N	5:Ad:282:MET:O	2.32	0.59
34:Aj:35:LYS:HG2	34:Aj:39:PRO:HA	1.84	0.59
43:1:476:U:O2'	43:1:477:U:OP1	2.17	0.59
43:1:963:A:N7	43:1:1344:U:O4	2.36	0.59
43:1:1363:U:H2'	43:1:1364:C:C6	2.38	0.59
43:1:2483:U:H2'	43:1:2484:A:C8	2.37	0.59
43:1:3050:C:O2'	43:1:3051:U:O5'	2.20	0.59
54:Bz:295:SER:HB3	54:Bz:357:ARG:HH21	1.68	0.59
62:Bd:347:GLU:HA	62:Bd:350:ARG:HB2	1.84	0.59
65:Bj:230:GLY:H	65:Bj:233:LYS:HG3	1.68	0.59
76:BD:211:ILE:HG22	76:BD:212:MET:H	1.67	0.59
77:BE:102:ALA:HB2	77:BE:151:CYS:SG	2.42	0.59
85:2:172:A:H5'	85:2:173:A:H5''	1.85	0.59
85:2:691:A:H2'	85:2:692:U:C6	2.38	0.59
85:2:838:C:O2	85:2:839:G:N1	2.35	0.59
85:2:994:A:N6	85:2:1033:C:H42	1.97	0.59
85:2:1175:A:HO2'	85:2:1176:G:H8	1.51	0.59
85:2:1184:C:O2'	85:2:1185:C:C6	2.55	0.59
85:2:1395:C:O2'	85:2:1396:U:P	2.61	0.59
85:2:1536:G:H2'	85:2:1537:G:C8	2.37	0.59
85:2:1658:G:H2'	85:2:1659:U:C6	2.38	0.59
86:Az:27:LEU:HG	86:Az:27:LEU:O	2.01	0.59
89:Bk:83:ARG:HE	89:Bk:96:HIS:HD2	1.51	0.59
1:Aa:39:ARG:HD3	1:Aa:63:PRO:HB2	1.85	0.59
8:Ag:74:MET:HG3	24:Ax:83:TYR:OH	2.03	0.59
14:An:92:THR:O	43:1:3155:U:O2'	2.20	0.59
16:Ap:145:VAL:HG12	16:Ap:147:GLU:H	1.68	0.59
33:AI:169:ALA:HB3	33:AI:230:MET:SD	2.43	0.59
39:AO:463:PRO:HB3	39:AO:487:VAL:HG12	1.85	0.59
41:AQ:134:ASP:HA	41:AQ:138:ASN:HB3	1.83	0.59
43:1:962:G:H2'	43:1:1343:G:H22	1.68	0.59
43:1:1912:G:H1	43:1:1914:C:H2'	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2761:C:H2'	43:1:2762:U:H6	1.68	0.59
43:1:2836:C:H2'	43:1:2837:C:H6	1.68	0.59
44:3:83:U:H2'	44:3:84:G:H8	1.67	0.59
46:Bf:37:HIS:HA	46:Bf:40:ALA:HB3	1.84	0.59
61:Bc:87:MET:SD	61:Bc:98:PRO:HB2	2.43	0.59
61:Bc:256:LEU:HD11	61:Bc:287:LEU:HD23	1.83	0.59
62:Bd:390:GLU:HA	62:Bd:423:ARG:HH11	1.68	0.59
64:Bg:70:ASP:OD1	64:Bg:71:CYS:N	2.33	0.59
71:Bu:96:GLY:HA2	71:Bu:99:GLU:HB2	1.85	0.59
77:BE:228:PRO:HA	77:BE:231:GLU:HB2	1.85	0.59
77:BE:230:ILE:HD12	77:BE:252:TYR:HB3	1.84	0.59
80:BH:62:LEU:O	80:BH:66:THR:N	2.30	0.59
85:2:472:G:C2	85:2:478:G:C4	2.91	0.59
85:2:922:G:OP1	85:2:1929:U:H5'	2.03	0.59
85:2:1107:U:O2	85:2:1535:G:N2	2.31	0.59
85:2:1117:U:O2'	85:2:1118:U:OP1	2.18	0.59
85:2:1920:U:H2'	85:2:1921:G:C8	2.37	0.59
9:Ai:139:ILE:O	9:Ai:142:THR:OG1	2.15	0.59
10:Aj:56:LYS:NZ	43:1:1158:A:OP1	2.32	0.59
14:An:122:SER:OG	14:An:123:LYS:N	2.31	0.59
37:AM:73:VAL:O	37:AM:76:THR:OG1	2.20	0.59
39:AO:251:ALA:HA	39:AO:254:GLU:HG3	1.84	0.59
40:AP:231:ALA:HB2	40:AP:237:ALA:N	2.18	0.59
43:1:139:G:H3'	43:1:140:C:C6	2.37	0.59
43:1:1190:A:H2'	43:1:1191:G:H8	1.66	0.59
43:1:1453:C:H2'	43:1:1454:C:H6	1.68	0.59
43:1:1593:G:H1'	43:1:1594:G:H5'	1.83	0.59
43:1:2543:A:H2'	43:1:2544:G:C8	2.38	0.59
51:Br:185:CYS:HB2	51:Br:199:PHE:CB	2.32	0.59
61:Bc:247:ALA:O	61:Bc:250:LYS:N	2.36	0.59
85:2:947:G:C2	85:2:948:U:C4	2.91	0.59
85:2:1211:C:HO2'	85:2:1212:U:H6	1.45	0.59
85:2:1789:G:C5	85:2:1790:G:C6	2.91	0.59
85:2:1831:C:H1'	85:2:1832:A:H5'	1.85	0.59
11:Ak:130:LEU:HB3	11:Ak:145:ILE:HD12	1.84	0.58
14:An:98:ARG:HE	14:An:106:PRO:HB3	1.66	0.58
38:AN:150:LYS:O	38:AN:154:GLN:HG2	2.03	0.58
41:AQ:368:TYR:CD2	41:AQ:400:PHE:HB2	2.36	0.58
43:1:64:G:C4	43:1:66:G:H1'	2.38	0.58
43:1:1008:G:H1'	43:1:1061:C:N4	2.18	0.58
48:Bi:153:LYS:NZ	85:2:1116:G:N3	2.44	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:Bl:68:GLY:HA2	52:Bw:254:LYS:NZ	2.18	0.58
60:Ba:109:ASN:ND2	85:2:1065:U:O2	2.36	0.58
62:Bd:328:GLY:HA2	62:Bd:331:LEU:HG	1.85	0.58
62:Bd:434:GLN:HB2	62:Bd:443:TYR:CE1	2.38	0.58
65:Bj:215:ASN:HA	85:2:678:G:N2	2.18	0.58
68:Bp:22:ASP:HB3	68:Bp:37:THR:HG22	1.85	0.58
85:2:55:C:H5''	85:2:384:U:H2'	1.85	0.58
85:2:720:G:OP1	85:2:847:G:N2	2.36	0.58
85:2:1216:C:O2'	85:2:1217:G:P	2.61	0.58
87:Ah:32:LEU:HG	87:Ah:107:TYR:HB3	1.83	0.58
22:Av:41:ARG:HB3	22:Av:84:THR:HG23	1.85	0.58
33:AI:115:ILE:HD11	33:AI:132:PRO:HG3	1.85	0.58
38:AN:119:ARG:NE	43:1:1541:G:OP1	2.33	0.58
43:1:441:G:H1'	43:1:462:G:N2	2.18	0.58
43:1:1103:G:H22	43:1:1111:A:H62	1.50	0.58
44:3:16:G:N2	44:3:72:G:O4'	2.36	0.58
44:3:74:C:H2'	44:3:75:A:H8	1.69	0.58
77:BE:176:GLN:HB3	77:BE:358:ARG:NH1	2.18	0.58
79:BJ:35:ALA:HB3	79:BJ:66:ALA:HB3	1.85	0.58
85:2:826:G:N1	85:2:851:C:N3	2.39	0.58
85:2:1189:C:O2	85:2:1381:G:N1	2.33	0.58
16:Ap:117:ASP:O	16:Ap:121:VAL:HG23	2.03	0.58
18:Ar:160:PHE:HZ	32:AH:120:ARG:HH22	1.51	0.58
24:Ax:65:ASN:ND2	43:1:2390:U:O2'	2.36	0.58
26:AA:40:ALA:HB2	26:AA:58:PHE:HA	1.85	0.58
43:1:867:U:H2'	43:1:868:U:C6	2.38	0.58
43:1:2378:G:N1	43:1:2380:G:C6	2.71	0.58
47:Bh:394:MET:O	47:Bh:398:LEU:HG	2.03	0.58
52:Bw:439:CYS:HB2	52:Bw:449:ARG:HH21	1.68	0.58
60:Ba:52:SER:OG	71:Bu:34:PRO:O	2.16	0.58
71:Bu:59:PHE:HA	71:Bu:62:LYS:HG3	1.85	0.58
85:2:148:G:O2'	85:2:149:G:OP2	2.18	0.58
85:2:438:A:H2'	85:2:440:U:H1'	1.86	0.58
85:2:585:G:N7	85:2:748:A:O2'	2.29	0.58
86:Az:54:ASN:N	86:Az:54:ASN:OD1	2.32	0.58
3:Ac:166:PRO:HD2	3:Ac:169:THR:HG21	1.85	0.58
3:Ac:253:TYR:HD1	3:Ac:254:LYS:HB2	1.67	0.58
9:Ai:88:ILE:HG23	9:Ai:109:LEU:HD21	1.85	0.58
10:Aj:52:VAL:HA	10:Aj:57:ASP:OD2	2.03	0.58
14:An:34:THR:HG23	14:An:37:LYS:HB3	1.85	0.58
18:Ar:218:LYS:NZ	43:1:1123:G:OP1	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Av:46:ARG:NH1	44:3:82:C:H41	2.00	0.58
30:AF:178:GLU:OE2	30:AF:182:ARG:NH2	2.35	0.58
32:AH:126:ARG:NH1	43:1:701:C:OP1	2.37	0.58
41:AQ:373:ILE:HG13	41:AQ:374:GLY:N	2.18	0.58
43:1:95:U:H5''	43:1:96:G:H5''	1.85	0.58
43:1:512:G:H2'	43:1:513:G:C8	2.39	0.58
43:1:528:G:H2'	43:1:529:A:C8	2.38	0.58
43:1:842:A:N3	43:1:1968:G:O2'	2.34	0.58
44:3:113:C:H2'	44:3:114:G:C8	2.37	0.58
45:Bb:340:PHE:O	45:Bb:344:ARG:HG2	2.03	0.58
52:Bw:366:GLU:HG2	52:Bw:367:PHE:H	1.68	0.58
61:Bc:155:GLN:NE2	61:Bc:157:ASN:H	2.01	0.58
63:Be:83:ASN:N	63:Be:83:ASN:OD1	2.34	0.58
85:2:619:U:H2'	85:2:620:G:H8	1.67	0.58
85:2:711:A:H2'	85:2:712:C:C6	2.38	0.58
85:2:1185:C:O2'	85:2:1186:A:H8	1.87	0.58
85:2:1369:G:O2'	85:2:1370:A:H8	1.87	0.58
85:2:1664:U:O2'	85:2:1709:A:N3	2.36	0.58
85:2:1789:G:N2	85:2:1858:C:C2	2.71	0.58
89:Bk:107:ILE:CD1	89:Bk:110:ARG:CG	2.73	0.58
22:Av:198:GLU:OE1	22:Av:198:GLU:N	2.36	0.58
22:Av:230:MET:HE1	43:1:1051:C:H4'	1.85	0.58
41:AQ:114:GLN:O	41:AQ:118:LEU:HG	2.03	0.58
43:1:132:C:O2'	43:1:133:U:H6	1.86	0.58
43:1:1205:G:O2'	43:1:1252:A:N6	2.36	0.58
43:1:1557:G:H2'	43:1:1558:A:C8	2.38	0.58
43:1:2376:C:H2'	43:1:2377:C:H6	1.68	0.58
43:1:2886:G:C4	43:1:2905:G:N2	2.71	0.58
43:1:3150:C:H2'	43:1:3151:G:C8	2.32	0.58
47:Bh:318:ARG:HD3	85:2:1497:C:O2'	2.03	0.58
48:Bi:162:LEU:HB2	48:Bi:178:GLN:HG2	1.85	0.58
52:Bw:177:ARG:HB3	52:Bw:180:TYR:HB2	1.84	0.58
52:Bw:368:GLU:HG3	52:Bw:379:ILE:HG12	1.83	0.58
62:Bd:316:LYS:NZ	62:Bd:337:GLU:HB2	2.18	0.58
77:BE:58:ASN:OD1	77:BE:60:SER:OG	2.20	0.58
85:2:1217:G:HO2'	85:2:1218:U:H6	1.49	0.58
85:2:1519:A:H3'	85:2:1520:U:H6	1.67	0.58
86:Az:30:THR:CG2	86:Az:35:ARG:HG3	2.33	0.58
1:Aa:5:ARG:HG3	1:Aa:60:GLU:HG2	1.84	0.58
2:Ab:179:ARG:NE	43:1:2894:U:O2	2.36	0.58
22:Av:103:CYS:HB2	22:Av:128:PRO:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AE:8:LYS:H	29:AE:35:GLN:NE2	2.02	0.58
33:AI:202:ILE:HG23	33:AI:203:SER:H	1.68	0.58
39:AO:394:LYS:HD3	39:AO:398:ILE:HD13	1.85	0.58
43:1:2435:G:H2'	43:1:2436:G:H5'	1.85	0.58
43:1:2970:G:H2'	43:1:2971:G:C8	2.39	0.58
45:Bb:48:PRO:HD2	45:Bb:55:PHE:HD2	1.67	0.58
50:Bm:85:LEU:HD22	53:Bx:46:LEU:HD12	1.85	0.58
57:BG:47:LYS:HA	57:BG:50:ALA:HB3	1.85	0.58
61:Bc:193:ARG:O	61:Bc:196:THR:OG1	2.18	0.58
72:Bv:137:GLN:HE21	72:Bv:141:LYS:HG3	1.68	0.58
85:2:359:U:O4	85:2:368:G:O6	2.21	0.58
85:2:368:G:H2'	85:2:369:G:C8	2.37	0.58
85:2:371:C:O2'	85:2:373:G:OP1	2.21	0.58
85:2:767:A:N6	85:2:806:G:O6	2.37	0.58
85:2:855:G:H2'	85:2:856:C:C6	2.39	0.58
85:2:864:U:O2'	85:2:865:G:OP1	2.19	0.58
85:2:1019:A:H2'	85:2:1020:U:H5'	1.84	0.58
85:2:1186:A:O2'	85:2:1187:G:H5'	2.04	0.58
85:2:1441:G:O3'	85:2:1442:G:C5'	2.51	0.58
85:2:1497:C:H2'	85:2:1498:U:H6	1.68	0.58
85:2:1642:U:H2'	85:2:1643:G:H8	1.67	0.58
85:2:1669:C:H2'	85:2:1670:U:H5'	1.86	0.58
85:2:1674:G:H2'	85:2:1675:A:C8	2.38	0.58
88:BK:215:ALA:CA	88:BK:230:ALA:HB1	2.28	0.58
1:Aa:5:ARG:NH2	38:AN:109:ASN:OD1	2.35	0.58
6:Ae:60:LYS:HG3	6:Ae:94:GLN:O	2.03	0.58
7:Af:67:GLN:NE2	43:1:3046:G:H21	2.02	0.58
25:Ay:56:TYR:HB2	25:Ay:106:ARG:NH1	2.18	0.58
40:AP:248:ALA:HB3	40:AP:251:ALA:HB3	1.85	0.58
43:1:148:C:O2'	43:1:149:G:H8	1.85	0.58
43:1:821:C:H2'	43:1:822:C:C6	2.38	0.58
43:1:1004:U:H2'	43:1:1005:A:C8	2.37	0.58
43:1:1315:A:H2'	43:1:1316:C:C6	2.38	0.58
43:1:2998:U:H2'	43:1:2999:G:H8	1.69	0.58
52:Bw:190:ILE:HD13	52:Bw:207:LYS:HG3	1.86	0.58
60:Ba:147:LEU:O	60:Ba:151:LYS:HG2	2.03	0.58
62:Bd:440:THR:OG1	62:Bd:478:SER:OG	2.12	0.58
85:2:15:A:O2'	85:2:16:A:O5'	2.21	0.58
85:2:29:G:H2'	85:2:30:G:H8	1.68	0.58
85:2:211:G:H2'	85:2:212:G:C8	2.39	0.58
85:2:281:A:H2'	85:2:282:A:C8	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:572:G:C6	85:2:874:G:N1	2.72	0.58
85:2:1218:U:O2'	85:2:1219:C:P	2.61	0.58
85:2:1219:C:O2'	85:2:1220:G:P	2.62	0.58
85:2:1431:G:O2'	85:2:1432:A:O5'	2.20	0.58
85:2:1437:A:O2'	85:2:1438:G:O4'	2.22	0.58
85:2:1449:A:C2	85:2:1450:C:C4	2.90	0.58
85:2:1557:G:H2'	85:2:1558:C:H6	1.68	0.58
86:Az:57:SER:O	86:Az:61:MET:HB3	2.03	0.58
25:Ay:94:LEU:HD13	25:Ay:101:PHE:HA	1.85	0.58
34:Aj:84:ASP:OD1	87:Ah:108:ASP:C	2.45	0.58
41:AQ:157:LYS:HE3	43:1:1916:A:N9	2.19	0.58
43:1:1148:U:C2	43:1:1305:A:N6	2.71	0.58
43:1:1905:U:O2	43:1:1925:G:N2	2.37	0.58
43:1:2428:A:O2'	43:1:2430:A:OP1	2.20	0.58
45:Bb:366:LYS:HB3	45:Bb:407:ARG:HH22	1.68	0.58
48:Bi:193:GLN:HE22	48:Bi:201:LEU:HG	1.67	0.58
52:Bw:193:PRO:HG2	52:Bw:194:PRO:HD3	1.85	0.58
52:Bw:371:VAL:O	52:Bw:375:SER:OG	2.21	0.58
72:Bv:150:TRP:HA	72:Bv:150:TRP:CE3	2.38	0.58
85:2:451:A:C4	85:2:452:A:C8	2.91	0.58
85:2:740:C:OP1	85:2:845:C:O2'	2.22	0.58
85:2:1443:U:O2'	85:2:1444:U:P	2.62	0.58
85:2:1446:A:O2'	85:2:1447:G:P	2.62	0.58
85:2:1860:U:H2'	85:2:1861:A:H8	1.67	0.58
6:Ae:123:ARG:CZ	6:Ae:170:LEU:HA	2.33	0.58
12:Al:181:ARG:NH1	43:1:789:G:N3	2.52	0.58
13:Am:142:SER:H	13:Am:145:GLN:NE2	2.01	0.58
17:Aq:76:ASN:HB3	86:Az:91:ARG:HH11	1.69	0.58
20:At:14:ASN:ND2	43:1:71:A:OP2	2.36	0.58
23:Aw:115:GLU:CG	23:Aw:124:TRP:HB2	2.32	0.58
41:AQ:459:GLY:HA3	41:AQ:466:GLU:HG3	1.85	0.58
43:1:492:G:H5'	43:1:495:C:H5	1.68	0.58
43:1:1194:A:OP1	43:1:1195:U:H5'	2.04	0.58
43:1:2000:A:H2'	43:1:2001:G:O4'	2.04	0.58
43:1:2640:C:O2'	43:1:2672:C:H5''	2.04	0.58
43:1:2984:U:C2	43:1:2985:A:C8	2.92	0.58
46:Bf:34:GLN:HB2	46:Bf:108:GLU:HG2	1.85	0.58
49:Bl:116:ARG:CZ	49:Bl:119:ARG:HD2	2.33	0.58
61:Bc:248:GLU:O	61:Bc:252:MET:HG3	2.04	0.58
64:Bg:94:PRO:HB2	64:Bg:97:GLN:HG2	1.85	0.58
71:Bu:114:ARG:HA	71:Bu:117:MET:HG2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:BJ:63:ALA:O	79:BJ:67:ALA:HB3	2.04	0.58
85:2:1209:A:O2'	85:2:1210:A:P	2.62	0.58
85:2:1397:C:O2'	85:2:1398:G:P	2.62	0.58
2:Ab:79:MET:HE2	2:Ab:87:MET:HE3	1.86	0.58
3:Ac:101:ILE:HG13	3:Ac:263:TRP:CD1	2.39	0.58
6:Ae:45:ILE:HG13	6:Ae:46:ILE:HG22	1.86	0.58
12:Al:127:LYS:NZ	43:1:229:A:OP1	2.37	0.58
18:Ar:138:GLU:N	18:Ar:139:PRO:HD3	2.19	0.58
23:Aw:117:SER:OG	23:Aw:122:ARG:O	2.19	0.58
39:AO:270:LEU:HA	39:AO:273:LEU:HG	1.86	0.58
43:1:785:G:H2'	43:1:786:G:C8	2.38	0.58
43:1:1539:U:H1'	43:1:1892:A:H61	1.68	0.58
43:1:1582:G:O2'	43:1:1583:C:O5'	2.22	0.58
43:1:1611:G:HO2'	43:1:1612:G:H8	1.51	0.58
43:1:2158:U:C2	43:1:2159:G:C8	2.92	0.58
47:Bh:352:LEU:HB2	47:Bh:356:LYS:HD3	1.84	0.58
62:Bd:508:THR:HG22	76:BD:272:VAL:HG22	1.85	0.58
85:2:612:C:H2'	85:2:613:A:C8	2.38	0.58
85:2:1214:G:O2'	85:2:1215:A:P	2.62	0.58
85:2:1400:C:O2'	85:2:1401:A:H8	1.86	0.58
85:2:1483:A:OP1	85:2:1483:A:H4'	2.02	0.58
85:2:1507:A:N6	85:2:1528:G:H1'	2.19	0.58
85:2:1868:U:H2'	85:2:1869:G:C8	2.38	0.58
32:AH:93:ASN:OD1	32:AH:94:GLU:N	2.36	0.57
34:AJ:25:PHE:CE2	34:AJ:78:ILE:CG2	2.86	0.57
35:AK:82:LYS:HZ2	43:1:2708:G:HO2'	1.52	0.57
39:AO:459:GLY:HA2	39:AO:461:SER:H	1.69	0.57
39:AO:459:GLY:N	39:AO:460:LYS:HB3	2.18	0.57
43:1:642:A:H3'	43:1:643:A:H4'	1.85	0.57
43:1:958:C:O2'	43:1:1381:G:N2	2.36	0.57
43:1:989:G:H3'	43:1:989:G:N3	2.19	0.57
43:1:1095:C:H2'	43:1:1096:U:C6	2.39	0.57
43:1:2670:G:H2'	43:1:2671:A:C8	2.39	0.57
43:1:2835:U:H2'	43:1:2836:C:C6	2.38	0.57
44:3:62:A:C6	44:3:63:U:C4	2.92	0.57
51:Br:162:ARG:HH12	85:2:971:A:H1'	1.68	0.57
54:Bz:377:LYS:O	54:Bz:381:ILE:HG12	2.03	0.57
60:Ba:66:ASN:OD1	60:Ba:66:ASN:N	2.37	0.57
61:Bc:164:GLU:HG2	61:Bc:167:ARG:HH12	1.69	0.57
62:Bd:393:ILE:HD11	62:Bd:466:ALA:HA	1.86	0.57
62:Bd:510:VAL:HG13	62:Bd:512:LYS:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:Bo:15:ARG:HG2	67:Bo:43:LEU:HD11	1.86	0.57
85:2:27:C:H2'	85:2:28:U:C6	2.39	0.57
85:2:589:A:H2'	85:2:590:U:C6	2.38	0.57
85:2:1179:A:C2	85:2:1393:G:C2	2.91	0.57
85:2:1734:G:H2'	85:2:1735:G:C8	2.39	0.57
85:2:1790:G:C5	85:2:1791:A:N6	2.72	0.57
3:Ac:113:LYS:HB2	3:Ac:122:ALA:HB3	1.86	0.57
6:Ae:8:TYR:HA	6:Ae:12:LEU:HB2	1.86	0.57
21:Au:16:LEU:HD11	43:1:83:A:H5''	1.86	0.57
22:Av:53:ARG:O	22:Av:87:LYS:NZ	2.31	0.57
22:Av:170:GLY:HA3	22:Av:235:ILE:HD12	1.85	0.57
33:AI:113:LEU:HB2	33:AI:210:TRP:CZ3	2.40	0.57
39:AO:225:VAL:HA	39:AO:226:ALA:HB3	1.86	0.57
41:AQ:368:TYR:CE2	41:AQ:400:PHE:HB2	2.39	0.57
41:AQ:393:ASN:ND2	41:AQ:395:LYS:HB3	2.18	0.57
43:1:591:G:N2	43:1:595:A:OP2	2.33	0.57
43:1:1008:G:H2'	43:1:1009:C:C6	2.37	0.57
43:1:1105:G:H22	43:1:1108:A:H5'	1.69	0.57
44:3:2:A:O2'	44:3:3:A:H8	1.86	0.57
48:Bi:130:ILE:HD12	48:Bi:190:ILE:HG21	1.86	0.57
48:Bi:215:GLU:HB3	54:Bz:298:VAL:HG12	1.86	0.57
60:Ba:123:LEU:HD23	60:Ba:125:PHE:CE2	2.39	0.57
61:Bc:78:PHE:HZ	61:Bc:340:PRO:HG2	1.69	0.57
67:Bo:52:MET:HB3	76:BD:330:GLU:OE2	2.04	0.57
78:BI:36:ALA:HB1	78:BI:39:ALA:HB3	1.85	0.57
85:2:187:C:OP1	85:2:330:C:O2'	2.21	0.57
85:2:540:G:H2'	85:2:541:G:H8	1.68	0.57
85:2:690:A:H2	85:2:784:A:H4'	1.68	0.57
85:2:1172:C:C4	85:2:1173:C:C4	2.92	0.57
85:2:1181:G:O2'	85:2:1182:U:O5'	2.09	0.57
85:2:1217:G:O2'	85:2:1218:U:P	2.62	0.57
85:2:1395:C:HO2'	85:2:1396:U:H6	1.51	0.57
85:2:1435:U:O2'	85:2:1436:A:H8	1.87	0.57
5:Ad:89:LEU:O	5:Ad:106:LEU:N	2.23	0.57
5:Ad:188:MET:O	5:Ad:193:ARG:NH1	2.28	0.57
10:Aj:120:LYS:HD3	10:Aj:124:ARG:HH12	1.69	0.57
12:Al:215:VAL:HG23	12:Al:254:SER:HB2	1.85	0.57
14:An:78:THR:HG23	14:An:79:GLU:HG3	1.86	0.57
16:Ap:142:LYS:HG3	16:Ap:153:SER:HA	1.86	0.57
18:Ar:122:LYS:O	18:Ar:123:VAL:HG23	2.03	0.57
18:Ar:173:LEU:HD13	18:Ar:236:LEU:HD21	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:858:U:H5'	66:Bn:412:ARG:HH11	1.69	0.57
43:1:1491:G:C6	43:1:1492:C:C4	2.91	0.57
43:1:1570:C:O2'	43:1:1571:U:OP2	2.21	0.57
51:Br:146:LEU:CD1	51:Br:150:LYS:HZ3	2.15	0.57
51:Br:166:LEU:HD13	51:Br:169:TYR:N	2.19	0.57
52:Bw:158:LEU:HB3	52:Bw:241:PRO:HG3	1.86	0.57
60:Ba:32:TYR:HB3	60:Ba:40:ILE:HG23	1.86	0.57
60:Ba:106:PHE:CE2	60:Ba:107:LEU:HD23	2.39	0.57
62:Bd:365:VAL:HG21	62:Bd:407:MET:HG2	1.86	0.57
62:Bd:472:LYS:HZ3	85:2:14:G:N2	2.03	0.57
70:Bs:75:LYS:O	70:Bs:78:GLU:HG3	2.03	0.57
71:Bu:85:TYR:O	71:Bu:89:VAL:HG23	2.03	0.57
76:BD:314:TRP:HB3	76:BD:315:ARG:NH1	2.19	0.57
85:2:274:G:C2	85:2:291:C:C2	2.92	0.57
85:2:577:C:H2'	85:2:578:G:C8	2.38	0.57
85:2:710:A:H2'	85:2:711:A:H8	1.65	0.57
85:2:1170:A:C2	85:2:1402:U:N3	2.69	0.57
85:2:1375:G:O2'	85:2:1376:A:H8	1.87	0.57
85:2:1401:A:O2'	85:2:1402:U:P	2.62	0.57
85:2:1402:U:H3'	85:2:1403:U:OP2	2.03	0.57
5:Ad:153:ASN:O	5:Ad:155:LYS:NZ	2.31	0.57
5:Ad:238:LYS:HB3	5:Ad:277:HIS:HD2	1.69	0.57
14:An:27:LYS:NZ	14:An:70:ASP:OD2	2.24	0.57
22:Av:124:GLY:HA2	22:Av:147:TRP:CH2	2.39	0.57
30:AF:204:LEU:HG	33:AI:142:LEU:HD13	1.86	0.57
33:AI:44:ASP:N	33:AI:44:ASP:OD1	2.36	0.57
34:AJ:72:ALA:CB	43:1:1259:U:OP1	2.50	0.57
39:AO:162:ASN:HB3	39:AO:194:TYR:CD2	2.40	0.57
39:AO:421:GLU:HG2	39:AO:422:GLN:HG3	1.86	0.57
43:1:503:G:N2	43:1:533:C:OP2	2.37	0.57
43:1:1249:C:H2'	43:1:1250:U:C2	2.39	0.57
43:1:1324:G:N2	43:1:1331:U:C2	2.72	0.57
43:1:1552:G:H21	43:1:1897:A:N6	2.01	0.57
43:1:1871:A:O2'	43:1:1872:A:H8	1.87	0.57
44:3:2:A:OP2	44:3:2:A:C8	2.57	0.57
46:Bf:134:GLY:HA2	55:BA:44:MET:SD	2.44	0.57
52:Bw:307:ALA:HB3	52:Bw:338:ARG:HG3	1.85	0.57
62:Bd:298:ARG:HH22	81:BN:68:ALA:C	2.12	0.57
66:Bn:323:ASN:HB3	66:Bn:324:MET:HE2	1.86	0.57
77:BE:311:LEU:O	77:BE:315:ILE:HG23	2.03	0.57
85:2:382:A:C2	89:Bk:28:PRO:HD2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1212:U:O2'	85:2:1213:C:P	2.62	0.57
85:2:1214:G:O2'	85:2:1215:A:H8	1.87	0.57
85:2:1455:U:O2'	85:2:1456:G:P	2.62	0.57
85:2:1706:A:N1	85:2:1714:G:C6	2.72	0.57
87:Ah:40:LEU:HB2	87:Ah:100:PHE:CZ	2.39	0.57
3:Ac:131:LYS:HB2	3:Ac:134:HIS:CD2	2.33	0.57
5:Ad:211:LEU:HB2	5:Ad:281:LEU:HD13	1.86	0.57
5:Ad:218:LEU:HD12	5:Ad:219:PRO:HD2	1.86	0.57
6:Ae:155:PHE:O	6:Ae:155:PHE:CG	2.57	0.57
9:Ai:85:SER:O	9:Ai:89:LYS:HG2	2.05	0.57
10:Aj:32:TRP:HB2	10:Aj:153:PRO:O	2.03	0.57
18:Ar:186:GLN:CA	86:Az:97:SER:OG	2.51	0.57
21:Au:59:GLY:HA3	21:Au:64:GLU:HB2	1.84	0.57
25:Ay:66:ARG:NH2	43:1:77:A:H5'	2.20	0.57
39:AO:434:GLU:O	39:AO:438:ASN:ND2	2.24	0.57
41:AQ:197:PHE:HE1	41:AQ:200:LYS:HZ2	1.53	0.57
43:1:617:G:O2'	43:1:641:C:N4	2.37	0.57
43:1:1132:A:N7	43:1:1133:G:C6	2.72	0.57
43:1:1141:C:H2'	43:1:1142:G:H8	1.68	0.57
43:1:1168:U:H2'	43:1:1169:U:H6	1.68	0.57
43:1:1226:A:H1'	43:1:1237:A:H2	1.69	0.57
43:1:2045:C:H42	43:1:2065:A:H61	1.52	0.57
43:1:2268:G:H2'	43:1:2269:C:H6	1.68	0.57
43:1:2426:G:O6	43:1:2428:A:O2'	2.22	0.57
43:1:2480:G:H2'	43:1:2481:U:C6	2.38	0.57
43:1:3106:U:H4'	43:1:3107:C:H5'	1.87	0.57
43:1:3137:U:H2'	43:1:3138:G:C8	2.38	0.57
44:3:64:C:H2'	44:3:65:G:C2	2.39	0.57
49:Bl:94:HIS:CG	49:Bl:95:GLY:N	2.72	0.57
50:Bm:142:VAL:HG21	50:Bm:147:PHE:HB2	1.87	0.57
77:BE:133:GLN:HG2	77:BE:158:PRO:HG2	1.84	0.57
85:2:431:G:H21	85:2:448:G:H1'	1.69	0.57
85:2:1394:A:O2'	85:2:1395:C:P	2.62	0.57
85:2:1396:U:O2'	85:2:1397:C:P	2.62	0.57
85:2:1398:G:O2'	85:2:1399:G:P	2.62	0.57
85:2:1468:C:H2'	85:2:1469:C:C6	2.40	0.57
85:2:1589:A:H62	85:2:1648:A:N6	2.01	0.57
86:Az:22:THR:HG23	86:Az:22:THR:O	2.04	0.57
86:Az:23:LEU:HD23	86:Az:45:ARG:C	2.29	0.57
3:Ac:79:ILE:HD11	3:Ac:175:HIS:CD2	2.40	0.57
6:Ae:107:VAL:HG13	26:AA:53:LYS:HZ3	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:An:111:GLU:OE2	14:An:115:ARG:NH1	2.37	0.57
17:Aq:18:LYS:NZ	17:Aq:19:ASN:OD1	2.32	0.57
30:AF:225:LEU:HD22	33:AI:107:LEU:HD13	1.86	0.57
33:AI:117:GLY:N	33:AI:128:VAL:O	2.31	0.57
43:1:169:U:H2'	43:1:170:U:C6	2.40	0.57
43:1:198:A:H2'	43:1:199:G:C8	2.40	0.57
43:1:903:G:N1	43:1:904:G:C6	2.72	0.57
43:1:1519:C:O2'	43:1:2127:A:O2'	2.23	0.57
43:1:1573:C:H1'	43:1:1574:A:C6	2.39	0.57
43:1:1837:G:O2'	43:1:1838:A:O5'	2.22	0.57
43:1:1884:C:H2'	43:1:1885:U:C6	2.40	0.57
46:Bf:90:ARG:O	46:Bf:94:GLU:HB3	2.05	0.57
52:Bw:366:GLU:HG2	52:Bw:367:PHE:N	2.19	0.57
54:Bz:331:ARG:HD3	54:Bz:378:ALA:HB2	1.87	0.57
54:Bz:341:HIS:HB3	54:Bz:346:GLU:HB3	1.86	0.57
61:Bc:60:LYS:HD3	62:Bd:365:VAL:O	2.05	0.57
62:Bd:483:ASN:O	62:Bd:487:ALA:HB2	2.05	0.57
85:2:875:C:H41	89:Bk:2:PRO:HB3	1.66	0.57
85:2:1444:U:O2'	85:2:1445:U:P	2.62	0.57
2:Ab:197:SER:O	2:Ab:197:SER:OG	2.21	0.57
6:Ae:163:ALA:HB1	6:Ae:169:THR:HG22	1.87	0.57
15:Ao:11:ARG:NH1	23:Aw:93:GLY:O	2.37	0.57
41:AQ:256:CYS:SG	41:AQ:289:CYS:HB2	2.44	0.57
43:1:101:A:H2'	43:1:102:U:H6	1.69	0.57
43:1:422:U:C2	43:1:423:G:C8	2.93	0.57
43:1:425:A:C8	43:1:426:A:C8	2.93	0.57
43:1:855:C:C2	43:1:856:U:H1'	2.39	0.57
43:1:1058:A:H5''	43:1:1059:C:H5''	1.85	0.57
43:1:1555:A:O2'	43:1:1892:A:OP1	2.23	0.57
43:1:2175:G:N1	43:1:2176:A:O2'	2.35	0.57
47:Bh:325:GLU:HG3	47:Bh:326:GLY:H	1.68	0.57
49:Bl:116:ARG:NH2	49:Bl:119:ARG:HD2	2.19	0.57
62:Bd:452:GLY:H	62:Bd:470:ASN:ND2	2.02	0.57
65:Bj:304:ASN:CG	85:2:712:C:H1'	2.29	0.57
73:By:69:MET:HE2	73:By:123:TYR:HA	1.86	0.57
76:BD:269:ASP:OD1	76:BD:270:PHE:N	2.36	0.57
79:BJ:267:ALA:HA	79:BJ:305:ALA:HB2	1.86	0.57
85:2:26:U:O2'	85:2:1070:U:O4	2.23	0.57
85:2:298:A:H5''	85:2:300:G:H5'	1.86	0.57
85:2:401:A:H2'	85:2:402:A:H8	1.67	0.57
85:2:1059:A:H2'	85:2:1085:A:H4'	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1187:G:C2'	85:2:1188:A:H5''	2.34	0.57
85:2:1189:C:O2'	85:2:1190:C:C6	2.56	0.57
85:2:1432:A:O2'	85:2:1433:A:H8	1.87	0.57
85:2:1441:G:O3'	85:2:1442:G:H5'	2.04	0.57
85:2:1447:G:O2'	85:2:1448:U:P	2.62	0.57
85:2:1628:G:H4'	85:2:1629:A:C8	2.40	0.57
10:Aj:124:ARG:HD2	43:1:1287:G:H4'	1.87	0.57
12:Al:176:VAL:O	12:Al:195:SER:OG	2.21	0.57
18:Ar:118:GLU:OE2	18:Ar:123:VAL:CG2	2.42	0.57
19:As:184:PHE:CD1	19:As:200:SER:HB2	2.40	0.57
41:AQ:157:LYS:HG3	43:1:1916:A:OP2	2.03	0.57
43:1:276:A:H4'	43:1:295:C:C2	2.39	0.57
43:1:1850:G:N2	43:1:1852:C:OP1	2.37	0.57
43:1:2396:U:H2'	43:1:2397:U:H6	1.69	0.57
51:Br:175:ARG:HG2	51:Br:184:ARG:HG2	1.86	0.57
52:Bw:239:TYR:HD2	52:Bw:241:PRO:HD3	1.69	0.57
59:BF:54:ALA:O	59:BF:58:ALA:HB3	2.04	0.57
77:BE:357:ALA:O	77:BE:362:LYS:N	2.38	0.57
85:2:265:A:C2	85:2:301:A:C5	2.92	0.57
85:2:671:A:N6	85:2:709:G:C6	2.71	0.57
85:2:1026:U:O2	85:2:1029:C:O2'	2.22	0.57
85:2:1443:U:HO2'	85:2:1444:U:H6	1.53	0.57
85:2:1448:U:O2'	85:2:1449:A:P	2.62	0.57
85:2:1453:C:O2'	85:2:1454:C:P	2.62	0.57
12:Al:91:LYS:HG3	18:Ar:222:ASN:ND2	2.19	0.57
19:As:184:PHE:CD1	19:As:184:PHE:O	2.58	0.57
39:AO:117:PRO:O	39:AO:120:SER:N	2.34	0.57
39:AO:303:LEU:HD21	43:1:1638:C:H42	1.70	0.57
39:AO:349:LEU:HG	39:AO:352:LYS:HB3	1.86	0.57
41:AQ:234:VAL:HG21	41:AQ:247:ILE:HG21	1.87	0.57
43:1:187:U:H2'	43:1:188:A:O4'	2.05	0.57
43:1:227:G:N2	43:1:240:A:O5'	2.35	0.57
43:1:295:C:H4'	43:1:296:A:OP1	2.04	0.57
43:1:1363:U:H2'	43:1:1364:C:H6	1.69	0.57
43:1:1665:C:O2'	43:1:1666:C:OP2	2.22	0.57
43:1:2344:A:C5	43:1:2347:C:C4	2.93	0.57
54:Bz:306:TRP:HE1	54:Bz:310:ASN:HB3	1.69	0.57
61:Bc:32:ARG:HH12	61:Bc:118:GLU:CB	2.14	0.57
61:Bc:254:ARG:HG2	61:Bc:258:LYS:HZ2	1.69	0.57
61:Bc:265:ARG:HE	83:BO:3:ALA:HB2	1.69	0.57
62:Bd:472:LYS:HZ3	85:2:14:G:H21	1.50	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Bp:18:VAL:HB	68:Bp:41:MET:HG2	1.86	0.57
70:Bs:87:ALA:O	70:Bs:90:LEU:N	2.37	0.57
72:Bv:128:ARG:HD2	85:2:589:A:H5'	1.87	0.57
75:BC:42:ILE:O	75:BC:46:LEU:HB2	2.04	0.57
75:BC:104:LYS:HE2	75:BC:106:ARG:HH12	1.70	0.57
77:BE:231:GLU:O	77:BE:234:ILE:HG22	2.03	0.57
85:2:225:G:H4'	85:2:226:A:OP1	2.03	0.57
85:2:1487:G:H2'	85:2:1488:C:C6	2.40	0.57
85:2:1628:G:N3	85:2:1628:G:H5'	2.20	0.57
85:2:1805:A:O2'	85:2:1806:U:H2'	2.04	0.57
85:2:1877:C:H2'	85:2:1878:G:H8	1.69	0.57
6:Ae:123:ARG:NH1	6:Ae:169:THR:O	2.38	0.57
9:Ai:18:ARG:NH1	9:Ai:66:THR:OG1	2.38	0.57
9:Ai:143:ALA:HA	9:Ai:148:ILE:HD12	1.85	0.57
13:Am:119:THR:HG22	13:Am:134:PRO:HA	1.87	0.57
15:Ao:107:ARG:NH1	43:1:2675:A:O2'	2.37	0.57
22:Av:217:PHE:O	22:Av:218:HIS:ND1	2.37	0.57
23:Aw:122:ARG:HH22	43:1:2631:A:P	2.28	0.57
34:AJ:18:ARG:NH2	34:AJ:19:LEU:O	2.30	0.57
35:AK:87:ASP:CG	43:1:2700:C:H5'	2.30	0.57
40:AP:314:ALA:HA	40:AP:317:ALA:HB2	1.86	0.57
43:1:25:G:H2'	43:1:26:G:C8	2.40	0.57
43:1:423:G:O6	43:1:481:U:C2	2.57	0.57
43:1:1236:G:H2'	43:1:1237:A:H4'	1.87	0.57
43:1:1255:G:H2'	43:1:1256:G:C8	2.40	0.57
43:1:1329:U:H1'	43:1:1330:U:C5	2.40	0.57
43:1:1885:U:H2'	43:1:1886:U:H6	1.70	0.57
47:Bh:349:LEU:HD12	52:Bw:464:LEU:HD12	1.86	0.57
51:Br:203:ARG:HD2	85:2:1574:C:O2'	2.05	0.57
63:Be:17:GLU:HG3	63:Be:20:ILE:HD11	1.85	0.57
71:Bu:88:ARG:NH2	71:Bu:109:GLU:OE1	2.37	0.57
85:2:938:G:C2	85:2:939:A:C8	2.93	0.57
85:2:997:A:N6	85:2:1029:C:N3	2.50	0.57
85:2:1215:A:O2'	85:2:1216:C:P	2.62	0.57
85:2:1392:A:O2'	85:2:1393:G:P	2.62	0.57
85:2:1401:A:O2'	85:2:1402:U:H6	1.86	0.57
85:2:1429:A:O2'	85:2:1430:C:O5'	2.22	0.57
85:2:1664:U:H2'	85:2:1665:G:C8	2.40	0.57
85:2:1739:C:O2'	85:2:1740:U:O4'	2.22	0.57
3:Ac:188:THR:OG1	3:Ac:189:ARG:N	2.31	0.56
6:Ae:5:ASN:N	6:Ae:5:ASN:OD1	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Al:181:ARG:HD3	43:1:778:U:H3	1.70	0.56
22:Av:150:ASP:OD1	22:Av:150:ASP:N	2.27	0.56
24:Ax:74:ASN:ND2	24:Ax:95:THR:OG1	2.37	0.56
29:AE:22:ARG:HD2	29:AE:36:ARG:HH11	1.69	0.56
41:AQ:430:LYS:CB	43:1:144:U:H3	2.18	0.56
43:1:45:A:H2'	43:1:46:G:H8	1.70	0.56
43:1:274:G:O2'	43:1:275:A:O4'	2.22	0.56
43:1:1236:G:C6	43:1:1238:A:H1'	2.40	0.56
43:1:1354:U:N3	43:1:1405:U:O2	2.38	0.56
43:1:2087:G:H2'	43:1:2088:C:C6	2.39	0.56
49:Bl:42:ASN:HA	49:Bl:74:ALA:HB3	1.87	0.56
64:Bg:105:THR:OG1	64:Bg:108:GLY:O	2.13	0.56
65:Bj:304:ASN:ND2	85:2:712:C:O2	2.38	0.56
77:BE:202:LEU:HD21	77:BE:317:LEU:HD11	1.86	0.56
85:2:160:A:O2'	85:2:161:A:O5'	2.19	0.56
85:2:399:G:O2'	85:2:401:A:N6	2.38	0.56
85:2:1110:U:O4	85:2:1505:G:O6	2.23	0.56
6:Ae:168:GLU:N	6:Ae:168:GLU:OE1	2.37	0.56
11:Ak:59:ASN:HD21	11:Ak:148:ARG:N	2.03	0.56
21:Au:93:GLY:O	21:Au:94:VAL:HG23	2.05	0.56
22:Av:168:CYS:HB3	22:Av:171:LEU:HB2	1.87	0.56
37:AM:53:GLU:H	37:AM:53:GLU:CD	2.13	0.56
41:AQ:368:TYR:OH	41:AQ:380:ILE:HD11	2.05	0.56
43:1:21:C:H2'	43:1:22:A:C8	2.40	0.56
43:1:481:U:O2'	43:1:482:C:H5'	2.05	0.56
43:1:889:G:H21	43:1:894:A:N6	2.03	0.56
43:1:997:C:H2'	43:1:998:C:C6	2.39	0.56
43:1:2052:C:H42	43:1:2058:A:N6	2.03	0.56
43:1:2886:G:C5	43:1:2905:G:N2	2.74	0.56
47:Bh:328:PHE:O	47:Bh:329:GLN:NE2	2.38	0.56
47:Bh:335:PHE:HZ	47:Bh:348:LEU:HD12	1.69	0.56
50:Bm:88:LYS:HE3	50:Bm:114:LEU:HD12	1.87	0.56
51:Br:131:MET:C	51:Br:131:MET:SD	2.88	0.56
64:Bg:113:GLU:HG2	64:Bg:114:GLU:H	1.69	0.56
68:Bp:23:ARG:NH2	85:2:257:G:OP2	2.39	0.56
72:Bv:66:LEU:O	72:Bv:70:ARG:HG3	2.05	0.56
72:Bv:164:ARG:HB3	72:Bv:169:ARG:HH21	1.69	0.56
76:BD:325:ARG:NH1	76:BD:345:ARG:HE	2.03	0.56
85:2:27:C:C2	85:2:28:U:C5	2.93	0.56
85:2:1206:G:N7	85:2:1381:G:O2'	2.38	0.56
85:2:1210:A:O2'	85:2:1211:C:P	2.62	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1213:C:O2'	85:2:1214:G:P	2.62	0.56
85:2:1456:G:C2	85:2:1457:C:N3	2.74	0.56
85:2:1510:G:C2	85:2:1511:C:C2	2.93	0.56
85:2:1675:A:H2'	85:2:1676:A:C8	2.40	0.56
85:2:1903:A:H2'	85:2:1904:G:C8	2.39	0.56
4:AD:111:LYS:NZ	43:1:226:A:O2'	2.39	0.56
6:Ae:8:TYR:OH	6:Ae:29:PRO:O	2.19	0.56
10:Aj:40:GLN:OE1	10:Aj:40:GLN:N	2.37	0.56
10:Aj:57:ASP:C	17:Aq:56:ALA:HB1	2.31	0.56
10:Aj:120:LYS:HD3	10:Aj:124:ARG:NH1	2.20	0.56
13:Am:51:ARG:NH1	43:1:1100:G:O2'	2.38	0.56
17:Aq:40:ARG:NH1	43:1:1142:G:OP2	2.35	0.56
17:Aq:82:LYS:O	17:Aq:85:SER:OG	2.21	0.56
18:Ar:186:GLN:CG	86:Az:97:SER:OG	2.53	0.56
24:Ax:60:SER:OG	24:Ax:65:ASN:N	2.37	0.56
25:Ay:63:SER:O	25:Ay:66:ARG:N	2.38	0.56
25:Ay:77:TRP:HZ3	25:Ay:114:MET:HB3	1.70	0.56
30:AF:204:LEU:HD23	30:AF:207:ALA:HB3	1.87	0.56
32:AH:52:ARG:HH11	43:1:1363:U:H5''	1.70	0.56
39:AO:271:ILE:HD11	43:1:1640:C:N3	2.20	0.56
39:AO:427:ASN:ND2	39:AO:430:GLU:OE1	2.26	0.56
43:1:105:A:H2'	43:1:106:U:C6	2.40	0.56
43:1:204:G:H21	43:1:219:C:H1'	1.71	0.56
43:1:608:G:C4	43:1:609:G:C8	2.93	0.56
43:1:995:G:C4'	86:Az:61:MET:CB	2.83	0.56
43:1:1166:A:N6	43:1:1296:G:O6	2.38	0.56
43:1:1515:A:H62	43:1:1529:U:H5	1.51	0.56
43:1:2017:A:OP2	43:1:2034:G:N2	2.38	0.56
43:1:2462:C:H42	43:1:2467:A:H62	1.51	0.56
43:1:2710:A:H2'	43:1:2711:G:O4'	2.05	0.56
43:1:2942:G:H2'	43:1:2943:A:H8	1.70	0.56
45:Bb:401:GLU:HA	45:Bb:404:LEU:HD13	1.87	0.56
47:Bh:406:ARG:NH2	85:2:1110:U:OP1	2.37	0.56
50:Bm:140:PHE:HB2	50:Bm:142:VAL:HG22	1.87	0.56
52:Bw:248:HIS:HE1	52:Bw:365:SER:HA	1.71	0.56
52:Bw:282:LEU:HD23	52:Bw:282:LEU:H	1.70	0.56
55:BA:54:CYS:HA	55:BA:56:LYS:HG2	1.86	0.56
67:Bo:26:ARG:NH2	85:2:198:G:O6	2.38	0.56
72:Bv:110:ASN:HA	72:Bv:113:ARG:HE	1.70	0.56
85:2:12:A:C6	85:2:609:C:H4'	2.41	0.56
85:2:34:A:N7	85:2:554:G:N2	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:550:C:H2'	85:2:551:U:O4'	2.06	0.56
85:2:603:G:H5''	85:2:604:A:H5'	1.87	0.56
85:2:1143:A:O2'	85:2:1156:G:N2	2.38	0.56
85:2:1145:G:H1'	85:2:1146:C:H5	1.70	0.56
85:2:1444:U:HO2'	85:2:1445:U:H6	1.50	0.56
85:2:1528:G:O2'	85:2:1530:A:N7	2.39	0.56
85:2:1748:C:N3	85:2:1898:A:C6	2.74	0.56
87:Ah:119:LYS:HE3	87:Ah:129:ILE:HG23	1.86	0.56
88:BK:218:ALA:HB1	88:BK:227:ALA:HA	1.85	0.56
2:Ab:176:SER:HA	43:1:2895:G:OP1	2.06	0.56
5:Ad:220:THR:O	5:Ad:225:ASN:ND2	2.38	0.56
16:Ap:104:ARG:NH2	43:1:3111:A:OP1	2.39	0.56
24:Ax:84:ILE:HD11	24:Ax:134:ARG:HG2	1.87	0.56
33:AI:213:LYS:HG3	33:AI:215:GLU:HG2	1.86	0.56
34:AJ:29:CYS:O	34:AJ:79:ARG:HD3	2.05	0.56
36:AL:43:ARG:NH2	44:3:88:U:OP2	2.38	0.56
36:AL:70:ASN:ND2	86:Az:80:ARG:HD2	2.12	0.56
41:AQ:306:VAL:O	41:AQ:310:LEU:HG	2.05	0.56
43:1:859:A:H61	66:Bn:412:ARG:CD	2.18	0.56
43:1:1670:A:N1	43:1:1874:A:N6	2.52	0.56
43:1:2495:A:H3'	43:1:2496:C:H6	1.69	0.56
43:1:2498:G:HO2'	43:1:2499:C:P	2.28	0.56
43:1:2691:U:H2'	43:1:2692:C:H6	1.71	0.56
43:1:2928:A:O2'	43:1:2932:G:N7	2.38	0.56
46:Bf:140:ARG:HD2	55:BA:41:LEU:HB3	1.88	0.56
52:Bw:374:ARG:NE	85:2:1677:C:OP1	2.39	0.56
53:Bx:47:ILE:HD12	85:2:1607:A:C2	2.41	0.56
57:BG:190:LYS:HA	85:2:1159:G:C6	2.40	0.56
61:Bc:249:HIS:ND1	61:Bc:293:SER:OG	2.29	0.56
67:Bo:51:ARG:HH12	85:2:473:A:H3'	1.69	0.56
76:BD:349:GLY:O	76:BD:351:TRP:HD1	1.89	0.56
85:2:23:G:H2'	85:2:24:A:H8	1.70	0.56
85:2:172:A:C2	85:2:173:A:H2	2.19	0.56
85:2:201:G:O6	85:2:245:U:O4	2.23	0.56
85:2:959:A:H2'	85:2:960:C:C6	2.40	0.56
85:2:1170:A:C6	85:2:1401:A:C6	2.93	0.56
85:2:1587:C:O3'	85:2:1649:G:N2	2.38	0.56
85:2:1789:G:C2	85:2:1859:A:C6	2.93	0.56
88:BK:85:ALA:HB3	88:BK:88:ALA:H	1.70	0.56
6:Ae:121:GLU:HG3	6:Ae:173:TRP:CZ3	2.41	0.56
10:Aj:41:VAL:HG21	10:Aj:44:ARG:HD2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:An:57:LEU:HD11	14:An:61:ARG:HH11	1.71	0.56
18:Ar:186:GLN:HA	86:Az:97:SER:CA	2.34	0.56
18:Ar:208:LEU:HA	18:Ar:232:GLU:HA	1.88	0.56
21:Au:46:ILE:HD11	43:1:87:A:C2	2.41	0.56
22:Av:178:ARG:NE	43:1:1018:G:H5'	2.19	0.56
33:AI:100:ARG:HD2	33:AI:210:TRP:O	2.06	0.56
34:AJ:84:ASP:OD1	87:Ah:108:ASP:CA	2.49	0.56
40:AP:426:ALA:HB1	40:AP:429:ALA:HB3	1.86	0.56
43:1:225:U:O2	43:1:242:A:N6	2.38	0.56
43:1:1487:C:N3	43:1:1488:U:C4	2.73	0.56
43:1:1906:U:C2	43:1:1907:G:C8	2.94	0.56
43:1:1992:C:H2'	43:1:1993:A:C8	2.41	0.56
44:3:4:C:H2'	44:3:5:C:H6	1.70	0.56
67:Bo:4:ARG:NH1	85:2:396:G:OP2	2.38	0.56
72:Bv:114:ARG:NH1	85:2:634:G:O5'	2.38	0.56
76:BD:215:ARG:NH2	76:BD:254:SER:OG	2.38	0.56
85:2:27:C:H2'	85:2:28:U:H6	1.70	0.56
85:2:454:C:H2'	85:2:455:U:C6	2.40	0.56
85:2:472:G:H2'	85:2:474:U:C2	2.40	0.56
85:2:1436:A:O2'	85:2:1437:A:H8	1.88	0.56
85:2:1571:G:P	85:2:1671:C:H41	2.29	0.56
85:2:1764:G:H2'	85:2:1765:G:H8	1.71	0.56
87:Ah:50:THR:HG21	87:Ah:93:ALA:HB2	1.87	0.56
6:Ae:13:ARG:NH2	30:AF:186:GLU:OE1	2.39	0.56
31:AG:23:LEU:HD11	31:AG:30:ARG:HD2	1.86	0.56
33:AI:89:PRO:O	33:AI:91:ILE:HG12	2.06	0.56
43:1:21:C:H2'	43:1:22:A:H8	1.70	0.56
43:1:272:A:H61	43:1:300:C:H42	1.54	0.56
43:1:1242:G:C6	43:1:1243:U:C4	2.93	0.56
43:1:1349:G:H2'	43:1:1350:A:O4'	2.06	0.56
43:1:1481:G:O2'	43:1:1483:C:OP2	2.23	0.56
43:1:1589:U:O2'	43:1:1590:C:O5'	2.20	0.56
50:Bm:81:ALA:C	50:Bm:84:GLU:HG3	2.30	0.56
60:Ba:71:ASN:OD1	60:Ba:72:THR:N	2.39	0.56
63:Be:90:ARG:NH1	85:2:668:G:OP1	2.38	0.56
76:BD:176:ALA:HB1	76:BD:254:SER:O	2.06	0.56
77:BE:265:HIS:CE1	77:BE:268:GLU:HB2	2.41	0.56
77:BE:370:PRO:HB2	77:BE:371:PRO:HD3	1.86	0.56
85:2:547:G:N1	85:2:548:U:C4	2.74	0.56
85:2:1127:A:O2'	85:2:1128:U:H5'	2.05	0.56
85:2:1856:C:N4	85:2:1857:G:O6	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:Az:23:LEU:HD23	86:Az:45:ARG:O	2.06	0.56
86:Az:38:LEU:CD2	86:Az:68:MET:SD	2.92	0.56
3:Ac:213:LEU:O	3:Ac:215:HIS:N	2.39	0.56
17:Aq:1:MET:HE2	17:Aq:3:LYS:N	2.20	0.56
19:As:214:THR:HG23	19:As:215:ALA:H	1.70	0.56
26:AA:38:PHE:HA	26:AA:56:ARG:HA	1.86	0.56
31:AG:41:CYS:C	31:AG:42:LYS:HD3	2.30	0.56
33:AI:171:MET:SD	33:AI:187:ARG:NH1	2.79	0.56
40:AP:497:ALA:HB1	40:AP:500:ALA:HB3	1.88	0.56
43:1:45:A:H2'	43:1:46:G:C8	2.41	0.56
43:1:521:G:N2	43:1:522:A:H5''	2.08	0.56
43:1:772:G:H2'	43:1:773:G:C8	2.37	0.56
43:1:837:U:H3	43:1:912:G:H1	1.53	0.56
43:1:2365:A:OP1	43:1:2366:C:O2'	2.14	0.56
43:1:2534:G:H2'	43:1:2535:A:C8	2.41	0.56
43:1:3128:A:C6	43:1:3138:G:C6	2.94	0.56
48:Bi:131:CYS:O	48:Bi:216:LEU:HA	2.05	0.56
51:Br:145:PHE:CD1	51:Br:145:PHE:C	2.84	0.56
60:Ba:97:ALA:HA	60:Ba:125:PHE:CD2	2.41	0.56
61:Bc:62:TYR:O	61:Bc:65:SER:N	2.38	0.56
61:Bc:121:PRO:HB2	85:2:425:A:H5'	1.87	0.56
64:Bg:93:LEU:HB2	64:Bg:94:PRO:HD3	1.87	0.56
73:By:74:TRP:NE1	85:2:234:A:OP1	2.39	0.56
81:BN:1:ALA:HB1	81:BN:4:ALA:HB3	1.86	0.56
85:2:23:G:H1	85:2:913:U:H3	1.52	0.56
85:2:77:U:H1'	85:2:78:U:H5'	1.87	0.56
85:2:1183:G:O2'	85:2:1184:C:C6	2.56	0.56
85:2:1209:A:O2'	85:2:1210:A:H8	1.87	0.56
85:2:1851:A:H2'	85:2:1852:U:C6	2.41	0.56
88:BK:260:ALA:HB3	88:BK:263:ALA:CB	2.35	0.56
1:Aa:56:VAL:HG21	1:Aa:88:LYS:HZ1	1.70	0.56
18:Ar:187:THR:OG1	86:Az:96:VAL:CB	2.44	0.56
19:As:109:VAL:HG12	19:As:207:THR:HG23	1.87	0.56
26:AA:48:ILE:HA	30:AF:225:LEU:H	1.71	0.56
35:AK:50:SER:OG	35:AK:53:ARG:HB2	2.06	0.56
38:AN:135:GLU:OE1	38:AN:139:ARG:NH2	2.38	0.56
43:1:517:G:O2'	43:1:518:U:OP1	2.23	0.56
43:1:963:A:H2'	43:1:964:A:H8	1.68	0.56
43:1:986:G:H2'	43:1:987:A:C8	2.40	0.56
43:1:1380:U:H2'	43:1:1381:G:C4	2.40	0.56
43:1:1662:G:H2'	43:1:1662:G:N3	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1675:U:O2'	43:1:1868:G:N2	2.32	0.56
43:1:2183:U:H5''	43:1:2184:U:C5	2.41	0.56
43:1:3124:A:P	43:1:3140:G:H22	2.29	0.56
50:Bm:127:CYS:SG	50:Bm:128:VAL:N	2.78	0.56
51:Br:176:ILE:HD11	51:Br:185:CYS:HB3	1.88	0.56
52:Bw:395:HIS:CE1	52:Bw:420:PRO:HG3	2.41	0.56
62:Bd:445:TRP:CZ2	64:Bg:95:THR:HG21	2.41	0.56
65:Bj:248:ARG:CA	65:Bj:251:LYS:HG2	2.36	0.56
70:Bs:55:LEU:O	70:Bs:60:GLN:NE2	2.38	0.56
76:BD:180:TYR:HD1	76:BD:252:PHE:CG	2.24	0.56
76:BD:326:ARG:HD2	76:BD:341:ALA:HB1	1.88	0.56
76:BD:351:TRP:CE3	76:BD:352:LYS:HG2	2.40	0.56
77:BE:334:HIS:O	77:BE:338:ILE:HG12	2.06	0.56
85:2:468:G:O2'	85:2:473:A:N6	2.31	0.56
85:2:767:A:C6	85:2:806:G:C6	2.94	0.56
85:2:1748:C:C4	85:2:1898:A:N1	2.74	0.56
5:Ad:258:LEU:HB3	5:Ad:260:TYR:CE1	2.41	0.56
13:Am:71:LYS:HE3	13:Am:174:LYS:HD3	1.87	0.56
21:Au:11:ARG:NH1	21:Au:13:TRP:HB2	2.19	0.56
31:AG:68:LEU:HD13	31:AG:71:PHE:HE2	1.69	0.56
33:AI:75:ASN:OD1	33:AI:76:ARG:N	2.39	0.56
34:AJ:5:LEU:N	34:AJ:40:ASN:HB2	2.21	0.56
39:AO:131:ASN:OD1	43:1:1643:A:O2'	2.13	0.56
41:AQ:332:LEU:O	41:AQ:335:ILE:HG22	2.06	0.56
43:1:761:C:C2	43:1:767:G:N1	2.71	0.56
43:1:1133:G:H2'	43:1:1133:G:N3	2.20	0.56
43:1:1557:G:N2	43:1:1886:U:O2	2.37	0.56
43:1:2220:A:H2'	43:1:2221:G:C8	2.41	0.56
45:Bb:57:LEU:HD23	45:Bb:454:GLN:HB3	1.88	0.56
51:Br:158:ILE:O	51:Br:158:ILE:HG22	2.05	0.56
61:Bc:180:ILE:HG23	61:Bc:192:ARG:NH2	2.20	0.56
71:Bu:83:ARG:O	71:Bu:86:GLY:N	2.35	0.56
73:By:68:HIS:HB2	73:By:124:ILE:HD13	1.88	0.56
85:2:76:G:N2	85:2:165:A:N1	2.47	0.56
85:2:170:C:H2'	85:2:171:G:C8	2.40	0.56
85:2:222:G:H2'	85:2:223:A:H8	1.71	0.56
85:2:438:A:C2	85:2:444:G:C6	2.93	0.56
85:2:1188:A:C1'	85:2:1382:C:N4	2.55	0.56
85:2:1696:G:N2	85:2:1723:A:OP2	2.39	0.56
85:2:1789:G:C5	85:2:1859:A:N6	2.72	0.56
10:Aj:48:GLN:O	10:Aj:51:THR:OG1	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Am:70:ILE:HG22	13:Am:148:PHE:H	1.71	0.56
18:Ar:235:LYS:HE3	18:Ar:237:ARG:HD3	1.88	0.56
19:As:171:ARG:O	19:As:213:THR:N	2.35	0.56
20:At:4:ARG:NH2	43:1:153:U:H4'	2.20	0.56
39:AO:71:TYR:OH	39:AO:102:LYS:NZ	2.26	0.56
39:AO:458:ALA:C	39:AO:460:LYS:HB3	2.31	0.56
43:1:138:G:O6	43:1:146:U:O4	2.24	0.56
43:1:553:A:N6	43:1:2710:A:O4'	2.39	0.56
43:1:823:G:H2'	43:1:824:A:H8	1.70	0.56
43:1:1556:C:N4	43:1:1887:C:H42	2.04	0.56
43:1:1921:C:O2'	43:1:1922:C:H6	1.87	0.56
48:Bi:194:SER:O	48:Bi:198:SER:OG	2.20	0.56
58:BP:205:ALA:O	58:BP:209:ALA:CB	2.53	0.56
60:Ba:177:PRO:HB2	60:Ba:179:ARG:HH11	1.71	0.56
85:2:6:A:OP2	85:2:6:A:H2'	2.06	0.56
85:2:550:C:O4'	89:Bk:28:PRO:HA	2.06	0.56
85:2:1434:G:O2'	85:2:1435:U:P	2.64	0.56
85:2:1458:C:O2'	85:2:1459:A:C8	2.56	0.56
2:Ab:80:ASN:HB3	2:Ab:81:PRO:HD2	1.87	0.55
9:Ai:137:LYS:HA	9:Ai:140:ILE:HG12	1.87	0.55
20:At:55:ASP:OD1	20:At:55:ASP:N	2.35	0.55
26:AA:37:HIS:HB2	33:AI:64:ARG:H	1.71	0.55
31:AG:45:GLY:HA2	31:AG:56:GLN:OE1	2.06	0.55
32:AH:93:ASN:ND2	32:AH:119:GLY:O	2.39	0.55
35:AK:50:SER:O	35:AK:53:ARG:N	2.39	0.55
43:1:136:G:O2'	43:1:137:U:O5'	2.24	0.55
43:1:1101:G:H2'	43:1:1102:G:C8	2.41	0.55
43:1:2081:G:H2'	43:1:2082:G:H8	1.71	0.55
43:1:2657:C:H2'	43:1:2658:U:H6	1.70	0.55
51:Br:159:TRP:CD1	51:Br:159:TRP:H	2.24	0.55
57:BG:17:LEU:O	85:2:1480:A:N6	2.39	0.55
61:Bc:249:HIS:CE1	61:Bc:293:SER:HG	2.23	0.55
64:Bg:50:GLN:HG3	64:Bg:61:THR:OG1	2.06	0.55
76:BD:161:MET:HA	76:BD:164:ILE:HG22	1.88	0.55
85:2:858:A:H3'	85:2:859:A:C8	2.41	0.55
85:2:1022:G:H2'	85:2:1023:U:H6	1.71	0.55
85:2:1458:C:C2	85:2:1459:A:C4	2.94	0.55
85:2:1529:A:H2'	85:2:1530:A:H8	1.70	0.55
85:2:1854:G:C2	85:2:1855:G:C5	2.95	0.55
41:AQ:462:VAL:O	41:AQ:466:GLU:HG2	2.06	0.55
43:1:505:A:C2	43:1:506:A:H1'	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:511:C:H3'	43:1:512:G:H8	1.70	0.55
43:1:720:G:N7	43:1:2341:A:N6	2.54	0.55
43:1:1101:G:O2'	43:1:2568:A:OP2	2.24	0.55
43:1:1551:A:H3'	43:1:1552:G:H8	1.71	0.55
43:1:1624:C:O2'	43:1:1625:G:H8	1.88	0.55
43:1:1872:A:C4	43:1:1873:G:N7	2.74	0.55
43:1:2991:U:OP1	43:1:3021:G:N1	2.39	0.55
43:1:3138:G:C6	43:1:3139:U:C4	2.95	0.55
46:Bf:58:LYS:HB3	46:Bf:84:GLN:HE21	1.71	0.55
52:Bw:365:SER:HB2	52:Bw:379:ILE:HB	1.88	0.55
61:Bc:171:TYR:HE1	76:BD:244:LEU:HD21	1.70	0.55
63:Be:50:TYR:HE2	85:2:669:G:H4'	1.71	0.55
67:Bo:68:GLN:NE2	85:2:201:G:OP1	2.38	0.55
77:BE:309:SER:HA	77:BE:368:TRP:CE3	2.40	0.55
78:BI:37:ALA:HB1	78:BI:70:ALA:H	1.72	0.55
85:2:81:U:H2'	85:2:82:C:H4'	1.88	0.55
85:2:872:C:C5	89:Bk:3:THR:CG2	2.89	0.55
85:2:878:G:OP2	89:Bk:15:LYS:NZ	2.38	0.55
9:Ai:18:ARG:HA	9:Ai:65:VAL:O	2.05	0.55
10:Aj:163:ARG:HH12	43:1:1161:C:H2'	1.71	0.55
12:Al:83:ARG:HH21	43:1:737:G:P	2.28	0.55
12:Al:176:VAL:N	12:Al:195:SER:OG	2.40	0.55
16:Ap:141:LEU:HD12	16:Ap:193:LEU:HD22	1.89	0.55
22:Av:126:VAL:HG12	22:Av:147:TRP:HA	1.87	0.55
33:AI:81:TYR:CZ	33:AI:83:MET:HB3	2.42	0.55
39:AO:229:TRP:CZ2	39:AO:265:THR:HG21	2.41	0.55
39:AO:249:GLU:OE1	39:AO:250:LYS:NZ	2.26	0.55
39:AO:363:ARG:HH12	43:1:1837:G:N2	1.99	0.55
39:AO:413:VAL:HG23	39:AO:436:LEU:HD11	1.86	0.55
40:AP:517:ALA:HA	40:AP:548:ALA:HB1	1.89	0.55
43:1:101:A:H2'	43:1:102:U:C6	2.41	0.55
43:1:180:A:H3'	43:1:181:A:H4'	1.88	0.55
43:1:1240:G:N2	43:1:1250:U:O2	2.39	0.55
43:1:1871:A:C4	43:1:1872:A:N7	2.74	0.55
43:1:2317:C:O2'	43:1:3097:A:N3	2.39	0.55
43:1:2998:U:H2'	43:1:2999:G:C8	2.41	0.55
45:Bb:415:SER:OG	45:Bb:418:TYR:N	2.38	0.55
67:Bo:55:LYS:HG2	67:Bo:56:PHE:N	2.20	0.55
85:2:78:U:H4'	85:2:79:G:OP1	2.05	0.55
85:2:620:G:C2	85:2:621:G:C5	2.94	0.55
85:2:911:A:H2'	85:2:912:A:C8	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1370:A:O2'	85:2:1371:C:C6	2.56	0.55
85:2:1517:A:N7	85:2:1519:A:N6	2.55	0.55
85:2:1810:U:H3	85:2:1836:G:H1	1.55	0.55
9:Ai:83:THR:O	9:Ai:87:TYR:HB2	2.06	0.55
13:Am:70:ILE:HG12	13:Am:173:THR:OG1	2.06	0.55
25:Ay:75:LYS:HD3	31:AG:70:GLY:H	1.71	0.55
39:AO:219:MET:HG2	39:AO:225:VAL:HG21	1.87	0.55
41:AQ:298:ASP:OD1	41:AQ:301:LYS:N	2.38	0.55
43:1:889:G:N2	43:1:894:A:H61	2.04	0.55
43:1:1208:G:C6	43:1:1229:C:C4	2.95	0.55
43:1:1240:G:H8	43:1:1240:G:O5'	1.89	0.55
43:1:1317:C:H2'	43:1:1318:U:C6	2.42	0.55
43:1:1467:G:H3'	43:1:1468:C:O2	2.05	0.55
43:1:2348:G:C2	43:1:2349:G:C5	2.95	0.55
43:1:2584:G:O2'	43:1:2723:A:N6	2.38	0.55
43:1:2666:C:H2'	43:1:2667:A:C8	2.42	0.55
47:Bh:307:TYR:CE2	85:2:1497:C:H4'	2.41	0.55
52:Bw:256:PRO:HD2	52:Bw:260:PHE:O	2.06	0.55
52:Bw:321:LEU:HB2	52:Bw:324:MET:HB2	1.87	0.55
52:Bw:354:VAL:HA	52:Bw:400:VAL:O	2.06	0.55
60:Ba:118:SER:O	60:Ba:120:HIS:N	2.37	0.55
61:Bc:167:ARG:HE	61:Bc:206:ARG:HH12	1.55	0.55
61:Bc:321:VAL:HG22	61:Bc:328:ALA:HB2	1.88	0.55
77:BE:212:MET:C	77:BE:218:ALA:H	2.14	0.55
85:2:74:A:C2	85:2:168:G:H1'	2.42	0.55
85:2:92:U:HO2'	85:2:93:A:H8	1.54	0.55
85:2:589:A:H2'	85:2:590:U:H6	1.71	0.55
85:2:708:G:H2'	85:2:709:G:C8	2.42	0.55
85:2:733:U:H2'	85:2:734:C:H6	1.72	0.55
85:2:903:C:H2'	85:2:904:U:C6	2.42	0.55
85:2:995:A:H2	85:2:1032:U:C4	2.24	0.55
85:2:1002:A:OP2	85:2:1025:C:N4	2.39	0.55
12:Al:181:ARG:NE	43:1:789:G:OP1	2.38	0.55
18:Ar:143:ILE:HD12	18:Ar:180:LEU:HB3	1.89	0.55
33:AI:112:TYR:H	33:AI:211:VAL:HG12	1.70	0.55
40:AP:610:ALA:O	40:AP:615:ALA:N	2.32	0.55
43:1:42:U:H2'	43:1:43:U:C6	2.42	0.55
43:1:224:U:H2'	43:1:225:U:C6	2.42	0.55
43:1:1667:U:O4	43:1:1876:G:O6	2.24	0.55
43:1:2049:U:O2'	43:1:2050:A:O5'	2.22	0.55
43:1:2062:G:O2'	43:1:2063:G:H8	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2179:A:H2'	43:1:2180:G:C8	2.41	0.55
48:Bi:167:ARG:HH11	85:2:1552:G:H22	1.53	0.55
55:BA:57:GLN:HB3	55:BA:60:LEU:HD22	1.89	0.55
72:Bv:103:LEU:HB3	72:Bv:107:ARG:HH22	1.72	0.55
76:BD:150:GLY:O	76:BD:154:VAL:HG23	2.05	0.55
77:BE:97:THR:HA	77:BE:146:GLY:HA3	1.87	0.55
85:2:70:U:O2	85:2:398:C:O2'	2.23	0.55
85:2:1022:G:H2'	85:2:1023:U:C6	2.42	0.55
85:2:1548:G:H2'	85:2:1549:U:C6	2.41	0.55
85:2:1589:A:N6	85:2:1648:A:H62	2.04	0.55
87:Ah:24:ILE:HB	87:Ah:115:VAL:HG12	1.89	0.55
5:Ad:241:VAL:HG23	5:Ad:263:ILE:HD13	1.89	0.55
7:Af:3:ALA:C	34:AJ:48:ARG:NH2	2.64	0.55
13:Am:107:LYS:CE	22:Av:178:ARG:HE	1.99	0.55
15:Ao:87:ILE:HD11	43:1:2675:A:H2	1.71	0.55
39:AO:123:GLU:CD	39:AO:123:GLU:H	2.14	0.55
39:AO:171:THR:HG23	39:AO:173:GLU:H	1.71	0.55
41:AQ:417:PHE:CE1	41:AQ:431:THR:HG21	2.41	0.55
43:1:134:C:O2'	43:1:135:C:H5'	2.06	0.55
43:1:469:C:H2'	43:1:470:C:C6	2.41	0.55
43:1:556:A:C6	43:1:2707:G:C6	2.94	0.55
43:1:656:G:N3	43:1:731:C:O2'	2.39	0.55
43:1:1184:U:O4	43:1:1269:G:O6	2.24	0.55
43:1:1628:G:H4'	43:1:1629:C:OP1	2.06	0.55
43:1:1669:G:O6	43:1:1874:A:C6	2.59	0.55
43:1:1673:C:O2'	43:1:1674:A:H8	1.90	0.55
43:1:1837:G:O2'	43:1:1838:A:H8	1.89	0.55
52:Bw:223:LEU:HB3	52:Bw:239:TYR:CE1	2.41	0.55
52:Bw:244:ARG:HA	52:Bw:247:THR:HG23	1.88	0.55
68:Bp:8:VAL:HA	68:Bp:19:VAL:HA	1.89	0.55
77:BE:145:ASP:HA	77:BE:165:THR:OG1	2.07	0.55
85:2:457:U:H2'	85:2:458:U:C6	2.42	0.55
85:2:739:U:H2'	85:2:740:C:H6	1.72	0.55
85:2:913:U:H2'	85:2:914:U:H6	1.71	0.55
85:2:936:U:O2'	85:2:1582:U:OP2	2.23	0.55
85:2:955:C:H2'	85:2:956:G:C8	2.41	0.55
85:2:1137:G:H2'	85:2:1138:G:C8	2.41	0.55
85:2:1932:A:H5''	85:2:1933:U:H5	1.71	0.55
89:Bk:114:ARG:HD2	89:Bk:121:LYS:HD2	1.87	0.55
4:AD:168:LYS:O	4:AD:169:LEU:HD23	2.07	0.55
6:Ae:16:LEU:HD23	6:Ae:19:LYS:HD2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:Ao:78:LEU:HD11	15:Ao:110:GLY:HA3	1.88	0.55
17:Aq:1:MET:HE2	17:Aq:3:LYS:H	1.72	0.55
18:Ar:137:TYR:CE2	18:Ar:246:LYS:HE3	2.37	0.55
18:Ar:200:HIS:HB2	18:Ar:240:ASP:HB3	1.87	0.55
26:AA:37:HIS:H	26:AA:56:ARG:NH1	2.04	0.55
39:AO:181:ILE:O	39:AO:185:LYS:HG2	2.07	0.55
39:AO:284:TYR:O	39:AO:288:ARG:NH2	2.40	0.55
40:AP:547:ALA:HA	40:AP:550:ALA:HB3	1.86	0.55
43:1:265:A:H2'	43:1:266:A:C4	2.42	0.55
43:1:902:G:N2	43:1:903:G:C4	2.75	0.55
43:1:2393:A:H3'	43:1:2394:G:H8	1.72	0.55
43:1:2413:G:N1	43:1:2483:U:C2	2.70	0.55
43:1:2588:G:H4'	43:1:2589:A:O4'	2.07	0.55
44:3:19:A:H2'	44:3:20:G:C8	2.42	0.55
45:Bb:537:VAL:C	45:Bb:538:TRP:HD1	2.14	0.55
47:Bh:345:ARG:NH1	52:Bw:471:GLU:OE1	2.39	0.55
48:Bi:173:LYS:NZ	85:2:968:A:OP1	2.29	0.55
54:Bz:406:ALA:HA	54:Bz:409:ILE:HD12	1.89	0.55
61:Bc:118:GLU:N	61:Bc:118:GLU:OE1	2.40	0.55
62:Bd:366:LYS:HD3	62:Bd:383:LEU:HD23	1.88	0.55
77:BE:212:MET:SD	77:BE:217:LEU:HD22	2.46	0.55
85:2:97:A:H1'	85:2:98:G:H5''	1.88	0.55
85:2:256:C:N4	85:2:257:G:O6	2.39	0.55
85:2:915:G:H2'	85:2:916:A:H8	1.72	0.55
85:2:1096:G:H2'	85:2:1097:A:C8	2.40	0.55
85:2:1097:A:H2'	85:2:1098:G:H8	1.72	0.55
10:Aj:30:LEU:HD12	10:Aj:31:ARG:N	2.21	0.55
16:Ap:128:ARG:HG3	16:Ap:129:GLU:H	1.72	0.55
38:AN:122:LYS:NZ	43:1:1879:U:OP2	2.32	0.55
41:AQ:472:ARG:HH22	41:AQ:473:PHE:HB3	1.71	0.55
43:1:632:A:C8	43:1:634:G:C5	2.95	0.55
43:1:1194:A:N3	43:1:1196:G:N1	2.55	0.55
43:1:1840:U:O2'	43:1:1841:C:O5'	2.21	0.55
43:1:2046:U:O2'	43:1:2047:C:O5'	2.25	0.55
43:1:2984:U:H2'	43:1:2985:A:H8	1.72	0.55
43:1:3078:U:H2'	43:1:3079:U:H6	1.70	0.55
45:Bb:527:PHE:HB3	45:Bb:532:ILE:HG22	1.87	0.55
51:Br:201:PHE:CZ	51:Br:204:LYS:NZ	2.55	0.55
54:Bz:328:GLN:HA	54:Bz:378:ALA:HB3	1.88	0.55
55:BA:57:GLN:HE21	55:BA:60:LEU:HD22	1.72	0.55
75:BC:104:LYS:HG2	79:BJ:318:ALA:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:6:A:O2'	85:2:7:G:H2'	2.07	0.55
85:2:178:U:H2'	85:2:179:G:C8	2.42	0.55
85:2:287:U:H2'	85:2:288:G:H8	1.72	0.55
85:2:607:G:H2'	85:2:608:U:H6	1.72	0.55
85:2:932:G:O2'	85:2:1724:A:N3	2.35	0.55
85:2:1055:C:H3'	85:2:1056:G:C8	2.41	0.55
85:2:1807:G:C6	85:2:1839:U:O2	2.59	0.55
3:Ac:121:PHE:CZ	3:Ac:161:GLU:HG2	2.41	0.55
10:Aj:15:LEU:O	10:Aj:19:VAL:HG22	2.06	0.55
10:Aj:54:GLN:NE2	10:Aj:127:PRO:HG3	2.22	0.55
10:Aj:165:ARG:HH11	43:1:1291:C:H1'	1.70	0.55
17:Aq:80:ASN:ND2	18:Ar:150:GLN:HG3	2.21	0.55
18:Ar:171:ASP:O	18:Ar:202:VAL:HA	2.07	0.55
20:At:58:LYS:H	20:At:87:THR:HG1	1.51	0.55
34:Aj:25:PHE:CE1	34:Aj:56:ILE:HG21	2.42	0.55
39:AO:282:GLU:HG3	39:AO:285:ARG:HH21	1.72	0.55
41:AQ:280:THR:OG1	41:AQ:318:VAL:HG13	2.06	0.55
43:1:215:G:C6	43:1:216:A:N7	2.75	0.55
43:1:487:G:O2'	43:1:488:G:OP2	2.24	0.55
43:1:776:C:H3'	43:1:777:U:H5''	1.88	0.55
43:1:1303:C:H2'	43:1:1304:G:O4'	2.06	0.55
43:1:1954:G:C2	43:1:1955:G:C8	2.95	0.55
43:1:2806:G:H1	43:1:2878:U:H3	1.54	0.55
48:Bi:168:SER:OG	48:Bi:171:VAL:HG12	2.06	0.55
52:Bw:161:GLY:HA3	52:Bw:165:GLU:HB2	1.89	0.55
52:Bw:246:TRP:O	52:Bw:382:ARG:NH2	2.40	0.55
53:Bx:57:TYR:HE1	53:Bx:61:ASN:HB2	1.70	0.55
61:Bc:95:SER:OG	61:Bc:96:TYR:N	2.39	0.55
63:Be:71:THR:OG1	63:Be:72:THR:N	2.40	0.55
85:2:25:U:H2'	85:2:26:U:C6	2.42	0.55
85:2:42:C:O2'	89:Bk:98:ILE:HD13	2.07	0.55
85:2:498:C:H2'	85:2:499:C:H6	1.71	0.55
85:2:572:G:O2'	85:2:818:G:OP2	2.13	0.55
85:2:901:A:H2'	85:2:902:A:H8	1.70	0.55
85:2:1003:A:H5''	85:2:1004:C:H5	1.72	0.55
85:2:1052:U:H2'	85:2:1053:G:H8	1.71	0.55
85:2:1655:A:C5	85:2:1656:U:C4	2.95	0.55
15:Ao:107:ARG:CZ	15:Ao:113:LEU:HD23	2.37	0.55
17:Aq:78:GLN:CD	18:Ar:192:PRO:HG2	2.31	0.55
26:AA:37:HIS:CD2	33:AI:65:TYR:HA	2.41	0.55
33:AI:87:PRO:HG2	33:AI:89:PRO:HG3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:AO:268:GLN:OE1	43:1:1634:C:N4	2.40	0.55
39:AO:392:MET:O	39:AO:396:VAL:HG13	2.07	0.55
43:1:94:G:H21	43:1:96:G:H1	1.55	0.55
43:1:311:G:H1'	43:1:312:G:H5'	1.89	0.55
43:1:543:A:H1'	43:1:544:G:C4	2.42	0.55
43:1:1266:A:H2'	43:1:1267:U:C6	2.42	0.55
43:1:1278:A:N6	43:1:2789:U:OP1	2.39	0.55
43:1:1598:G:H1'	43:1:1611:G:N2	2.20	0.55
43:1:2439:G:H2'	43:1:2440:U:O4'	2.07	0.55
43:1:2478:U:H2'	43:1:2479:C:C6	2.42	0.55
43:1:2741:C:H2'	43:1:2742:G:H8	1.71	0.55
43:1:2820:U:H3	43:1:2841:G:H1	1.55	0.55
46:Bf:12:ILE:HA	46:Bf:15:LEU:HD12	1.89	0.55
48:Bi:132:ILE:HB	48:Bi:188:LEU:O	2.07	0.55
48:Bi:132:ILE:HD11	48:Bi:190:ILE:HG13	1.88	0.55
61:Bc:238:GLU:HG2	61:Bc:239:LYS:HD2	1.87	0.55
62:Bd:311:LYS:HE3	62:Bd:315:ILE:HD11	1.88	0.55
70:Bs:77:LEU:HD21	85:2:718:A:N3	2.21	0.55
76:BD:338:LYS:O	76:BD:339:LEU:HD12	2.07	0.55
77:BE:310:PRO:HD3	77:BE:369:ASP:HB3	1.89	0.55
80:BH:81:ASP:HA	80:BH:84:ALA:HB3	1.88	0.55
85:2:209:C:H2'	85:2:210:G:O4'	2.07	0.55
85:2:246:G:H2'	85:2:247:A:C8	2.41	0.55
85:2:272:U:O4'	85:2:294:G:N2	2.33	0.55
85:2:312:G:H1	85:2:323:U:H3	1.53	0.55
85:2:328:A:O2'	85:2:604:A:N1	2.38	0.55
85:2:472:G:N2	85:2:478:G:O4'	2.34	0.55
85:2:520:A:H62	89:Bk:87:VAL:HG13	1.71	0.55
85:2:945:U:H4'	85:2:957:A:H61	1.71	0.55
89:Bk:40:ARG:HD2	89:Bk:52:ILE:HG12	1.89	0.55
5:Ad:262:ASN:OD1	43:1:764:U:N3	2.29	0.54
12:Al:158:THR:HG23	12:Al:160:LYS:H	1.72	0.54
15:Ao:14:ASP:OD1	15:Ao:15:TYR:N	2.40	0.54
22:Av:148:ALA:HB1	22:Av:190:ALA:HB2	1.90	0.54
34:Aj:46:LYS:O	34:Aj:47:ARG:NE	2.40	0.54
39:AO:181:ILE:HG13	39:AO:199:TRP:HE1	1.71	0.54
43:1:1203:A:H2'	43:1:1204:G:C8	2.42	0.54
43:1:1873:G:O2'	43:1:1874:A:O5'	2.22	0.54
43:1:2070:G:C2	43:1:2073:C:O2	2.60	0.54
43:1:2436:G:H21	43:1:2470:C:H42	1.55	0.54
46:Bf:141:SER:HB3	65:Bj:237:TYR:CG	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:Bw:364:PHE:CD1	52:Bw:378:PRO:HB2	2.42	0.54
61:Bc:44:ARG:NH1	85:2:442:C:N3	2.54	0.54
63:Be:26:ILE:HA	63:Be:29:HIS:HB2	1.88	0.54
85:2:1131:G:O6	85:2:1486:U:C4	2.61	0.54
85:2:1377:G:HO2'	85:2:1378:U:H6	1.51	0.54
87:Ah:119:LYS:HZ3	87:Ah:136:ALA:H	1.53	0.54
1:Aa:86:ILE:HB	2:Ab:76:ASN:ND2	2.18	0.54
1:Aa:92:PRO:O	1:Aa:93:ARG:CG	2.55	0.54
7:Af:3:ALA:O	34:AJ:48:ARG:CZ	2.54	0.54
7:Af:70:ALA:HB1	43:1:3046:G:O2'	2.07	0.54
18:Ar:159:ILE:HG22	18:Ar:160:PHE:O	2.07	0.54
19:As:118:LYS:NZ	27:AB:93:ARG:HH22	2.04	0.54
21:Au:44:ARG:HG2	21:Au:75:HIS:HA	1.87	0.54
39:AO:145:LEU:O	39:AO:149:MET:HG3	2.06	0.54
40:AP:497:ALA:O	40:AP:501:ALA:CB	2.56	0.54
41:AQ:449:ASN:HA	41:AQ:452:TYR:CB	2.37	0.54
43:1:64:G:N9	43:1:66:G:H1'	2.22	0.54
43:1:201:A:C8	43:1:573:A:C6	2.95	0.54
43:1:457:A:H2'	43:1:458:A:O4'	2.08	0.54
43:1:789:G:H2'	43:1:790:A:O4'	2.07	0.54
43:1:872:G:C4	43:1:874:A:C8	2.95	0.54
43:1:1281:U:H3'	43:1:1282:A:H5''	1.90	0.54
43:1:1552:G:H2'	43:1:1553:U:C6	2.43	0.54
44:3:116:U:H2'	44:3:117:G:N7	2.22	0.54
47:Bh:328:PHE:HA	47:Bh:363:ILE:HG13	1.89	0.54
49:Bl:61:HIS:CD2	49:Bl:71:ASN:HD21	2.25	0.54
51:Br:158:ILE:HG22	51:Br:160:SER:HB3	1.88	0.54
52:Bw:270:ILE:O	52:Bw:274:PHE:HB2	2.07	0.54
57:BG:47:LYS:O	57:BG:51:ALA:HB3	2.08	0.54
61:Bc:33:GLU:OE1	85:2:427:U:H5'	2.07	0.54
61:Bc:47:ASN:O	61:Bc:51:SER:OG	2.24	0.54
63:Be:4:TYR:HB3	63:Be:93:LEU:HG	1.89	0.54
63:Be:95:LYS:HE3	85:2:732:C:H5''	1.88	0.54
68:Bp:61:ARG:NE	85:2:283:A:O2'	2.40	0.54
76:BD:208:ASP:O	76:BD:210:ARG:NH2	2.40	0.54
85:2:40:A:H2'	85:2:41:A:H8	1.71	0.54
85:2:620:G:H2'	85:2:621:G:C8	2.42	0.54
85:2:767:A:H2'	85:2:768:U:C6	2.43	0.54
85:2:1001:A:H5'	85:2:1025:C:H41	1.71	0.54
85:2:1915:A:N7	85:2:1916:C:O2'	2.40	0.54
12:Al:124:ARG:HE	43:1:2714:C:H5'	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:An:42:ARG:NH2	14:An:92:THR:OG1	2.40	0.54
33:AI:35:ARG:NH2	33:AI:109:LYS:O	2.40	0.54
38:AN:155:VAL:O	38:AN:159:MET:HG2	2.07	0.54
40:AP:610:ALA:HA	40:AP:614:ALA:HB3	1.87	0.54
43:1:118:A:H4'	43:1:119:A:OP2	2.05	0.54
43:1:960:G:C6	43:1:1348:G:C6	2.96	0.54
43:1:988:U:H2'	43:1:989:G:O4'	2.06	0.54
43:1:1915:G:H4'	43:1:1916:A:OP1	2.06	0.54
43:1:2462:C:H42	43:1:2467:A:N6	2.06	0.54
43:1:2566:C:C4	43:1:2567:U:C4	2.96	0.54
43:1:2571:G:C4	43:1:2572:A:C8	2.94	0.54
49:Bl:115:TYR:HB2	51:Br:201:PHE:HA	1.89	0.54
50:Bm:122:ARG:NH2	85:2:1569:U:OP1	2.38	0.54
52:Bw:304:LEU:N	52:Bw:330:HIS:HD2	1.97	0.54
52:Bw:442:TYR:O	52:Bw:450:ARG:HB2	2.07	0.54
85:2:276:U:O2	85:2:288:G:O6	2.25	0.54
85:2:732:C:H2'	85:2:733:U:C6	2.42	0.54
85:2:997:A:H2	85:2:1001:A:N6	2.05	0.54
85:2:998:A:N7	85:2:1028:A:N6	2.55	0.54
89:Bk:30:LYS:HB2	89:Bk:30:LYS:HZ2	1.71	0.54
5:Ad:226:ILE:HG13	5:Ad:254:ALA:HB1	1.90	0.54
37:AM:110:ILE:HG12	37:AM:121:PHE:O	2.08	0.54
39:AO:140:GLU:HG2	39:AO:141:LYS:N	2.22	0.54
39:AO:233:SER:HG	43:1:1641:U:H3	1.55	0.54
43:1:51:A:H2'	43:1:52:A:C8	2.43	0.54
43:1:1481:G:N3	43:1:1485:A:N6	2.54	0.54
43:1:1944:A:C6	43:1:1951:A:C2	2.95	0.54
47:Bh:313:LYS:HD3	85:2:1696:G:N7	2.22	0.54
62:Bd:501:VAL:C	62:Bd:503:GLU:H	2.15	0.54
65:Bj:195:ILE:HG13	65:Bj:210:THR:HG23	1.88	0.54
77:BE:350:ASP:HB2	77:BE:368:TRP:HA	1.88	0.54
85:2:428:G:O2'	85:2:452:A:N1	2.39	0.54
85:2:476:A:H2'	85:2:477:U:C6	2.43	0.54
85:2:717:A:H2'	85:2:719:A:C8	2.43	0.54
85:2:786:U:O2'	85:2:788:G:N7	2.31	0.54
85:2:1188:A:O2'	85:2:1381:G:N2	2.39	0.54
6:Ae:107:VAL:HG22	26:AA:53:LYS:HZ1	1.72	0.54
26:AA:37:HIS:CE1	33:AI:59:GLN:HE22	2.21	0.54
26:AA:41:LYS:HA	26:AA:54:PHE:HD1	1.73	0.54
33:AI:168:MET:HB2	33:AI:189:PHE:HB2	1.90	0.54
39:AO:380:VAL:O	39:AO:383:GLY:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:AP:635:ALA:HB2	40:AP:639:ALA:O	2.06	0.54
41:AQ:353:CYS:O	41:AQ:354:GLN:HG2	2.08	0.54
43:1:22:A:N6	43:1:664:G:O6	2.41	0.54
43:1:497:U:H4'	43:1:498:U:OP2	2.07	0.54
43:1:1877:G:C6	43:1:1878:U:N3	2.76	0.54
43:1:2049:U:C2	43:1:2062:G:N1	2.76	0.54
43:1:2594:A:C6	43:1:2639:G:C6	2.95	0.54
43:1:2597:C:N4	43:1:2633:A:OP2	2.37	0.54
43:1:2600:A:H2'	43:1:2601:A:C8	2.43	0.54
43:1:2657:C:H2'	43:1:2658:U:C6	2.41	0.54
50:Bm:87:ARG:HB3	50:Bm:91:LYS:NZ	2.23	0.54
61:Bc:235:PHE:CE2	76:BD:169:LYS:HE2	2.41	0.54
62:Bd:347:GLU:HG2	62:Bd:350:ARG:HD2	1.88	0.54
65:Bj:258:VAL:O	65:Bj:292:ILE:HG23	2.08	0.54
66:Bn:398:ASP:OD1	66:Bn:398:ASP:N	2.41	0.54
70:Bs:64:ILE:HG23	70:Bs:68:GLU:HB3	1.88	0.54
77:BE:312:SER:O	77:BE:315:ILE:HG12	2.06	0.54
85:2:280:U:O2'	85:2:282:A:N7	2.30	0.54
85:2:944:G:H2'	85:2:945:U:H6	1.72	0.54
85:2:1001:A:C2	85:2:1002:A:H1'	2.43	0.54
85:2:1469:C:H3'	85:2:1470:G:C8	2.42	0.54
85:2:1817:U:HO2'	85:2:1818:A:H8	1.55	0.54
88:BK:33:ALA:HB3	88:BK:64:ALA:HB3	1.88	0.54
17:Aq:6:ILE:HD12	17:Aq:28:VAL:HG11	1.88	0.54
39:AO:101:ALA:HB1	39:AO:132:CYS:SG	2.48	0.54
39:AO:244:LEU:HD23	39:AO:244:LEU:H	1.72	0.54
39:AO:271:ILE:HA	39:AO:274:TYR:CD2	2.43	0.54
40:AP:515:ALA:HB1	40:AP:548:ALA:HB2	1.90	0.54
41:AQ:188:ALA:O	43:1:1916:A:N6	2.41	0.54
43:1:156:G:O2'	43:1:157:G:O5'	2.25	0.54
43:1:423:G:O6	43:1:481:U:C5	2.59	0.54
43:1:732:A:H2'	43:1:733:G:C8	2.43	0.54
43:1:743:G:C2	43:1:744:G:C8	2.96	0.54
43:1:832:A:H2'	43:1:833:G:H8	1.71	0.54
43:1:1096:U:O2'	43:1:1098:U:O4'	2.25	0.54
43:1:1100:G:N2	43:1:2569:A:C8	2.76	0.54
43:1:1321:A:H2'	43:1:1322:A:C8	2.43	0.54
43:1:2261:A:H2'	43:1:2262:U:C6	2.43	0.54
43:1:2265:G:HO2'	43:1:2267:A:N6	2.04	0.54
43:1:2409:C:H2'	43:1:2410:C:H6	1.73	0.54
44:3:25:G:H1	44:3:65:G:H22	1.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:3:74:C:H2'	44:3:75:A:C8	2.42	0.54
61:Bc:62:TYR:CD2	61:Bc:65:SER:HB2	2.42	0.54
64:Bg:21:LYS:NZ	85:2:825:C:OP1	2.33	0.54
64:Bg:100:TYR:HA	64:Bg:112:HIS:CE1	2.42	0.54
64:Bg:104:THR:HG22	64:Bg:123:GLN:O	2.08	0.54
67:Bo:93:ARG:HD3	67:Bo:94:LYS:H	1.73	0.54
73:By:80:GLU:HB2	73:By:100:HIS:NE2	2.22	0.54
77:BE:352:CYS:HA	77:BE:355:ILE:HD12	1.88	0.54
85:2:622:C:C4	85:2:623:G:N7	2.76	0.54
85:2:1128:U:O2'	85:2:1129:G:O4'	2.25	0.54
85:2:1151:A:O2'	85:2:1152:A:O4'	2.25	0.54
1:Aa:88:LYS:HD2	2:Ab:60:GLY:HA3	1.90	0.54
2:Ab:78:GLU:OE2	2:Ab:123:ARG:HB2	2.07	0.54
3:Ac:251:TRP:CZ3	3:Ac:253:TYR:HA	2.43	0.54
19:As:189:ALA:O	19:As:197:GLY:N	2.39	0.54
21:Au:95:LYS:HZ1	21:Au:101:THR:HB	1.73	0.54
25:Ay:112:ARG:NH1	43:1:74:G:OP1	2.41	0.54
36:AL:70:ASN:OD1	86:Az:71:VAL:HG11	2.08	0.54
39:AO:56:TRP:HZ3	43:1:1647:U:N3	2.05	0.54
43:1:147:G:H1'	43:1:148:C:H5'	1.89	0.54
43:1:673:C:H4'	43:1:674:A:O5'	2.08	0.54
43:1:704:U:H2'	43:1:705:A:C8	2.42	0.54
43:1:868:U:H2'	43:1:869:G:O4'	2.08	0.54
43:1:1017:G:C6	43:1:1052:A:C6	2.95	0.54
43:1:1249:C:H3'	43:1:1250:U:C6	2.42	0.54
43:1:1568:G:H22	43:1:1658:A:H2	1.55	0.54
43:1:3110:U:H2'	43:1:3111:A:C8	2.42	0.54
49:Bl:51:GLU:OE1	49:Bl:51:GLU:N	2.31	0.54
60:Ba:66:ASN:ND2	60:Ba:130:MET:O	2.40	0.54
64:Bg:40:MET:HG2	64:Bg:128:PHE:CZ	2.43	0.54
85:2:581:G:H2'	85:2:582:G:H8	1.71	0.54
85:2:970:A:O2'	85:2:974:U:N3	2.38	0.54
85:2:1133:C:C2	85:2:1485:G:N1	2.76	0.54
85:2:1546:A:OP1	85:2:1547:A:H5'	2.07	0.54
88:BK:117:ALA:CB	88:BK:120:ALA:HB3	2.37	0.54
89:Bk:107:ILE:HG13	89:Bk:107:ILE:O	2.06	0.54
2:Ab:162:CYS:SG	43:1:928:G:N2	2.80	0.54
3:Ac:131:LYS:NZ	43:1:3108:G:OP2	2.39	0.54
3:Ac:176:PHE:CE1	3:Ac:281:ALA:HB3	2.42	0.54
26:AA:48:ILE:CG2	30:AF:224:THR:N	2.63	0.54
33:AI:55:PHE:O	33:AI:59:GLN:HG2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:AO:123:GLU:HG3	39:AO:154:ILE:HG22	1.88	0.54
40:AP:709:ALA:O	43:1:259:A:N6	2.41	0.54
43:1:213:C:N4	43:1:2705:G:N3	2.56	0.54
43:1:256:U:O2'	43:1:257:U:OP2	2.22	0.54
43:1:261:G:H5'	43:1:262:A:C8	2.42	0.54
43:1:549:G:C2'	43:1:550:G:H5'	2.38	0.54
43:1:643:A:H4'	43:1:644:U:OP1	2.05	0.54
43:1:699:C:OP1	43:1:700:A:O2'	2.24	0.54
43:1:1555:A:N6	43:1:1893:A:H62	2.06	0.54
43:1:2245:C:C2	43:1:2246:G:C8	2.95	0.54
43:1:2395:C:H2'	43:1:2396:U:H6	1.73	0.54
43:1:2403:U:H5'	43:1:2527:A:H2	1.73	0.54
43:1:2490:G:H2'	43:1:2491:C:C6	2.42	0.54
43:1:2563:C:C2	43:1:2582:G:C2	2.96	0.54
43:1:2590:A:H2	43:1:2623:G:C8	2.26	0.54
43:1:2595:G:H2'	43:1:2596:G:C8	2.43	0.54
52:Bw:394:MET:N	52:Bw:399:MET:SD	2.80	0.54
62:Bd:370:LYS:NZ	62:Bd:379:ARG:HD2	2.23	0.54
65:Bj:229:LYS:NZ	85:2:685:G:O6	2.25	0.54
72:Bv:187:GLU:HG2	72:Bv:188:ALA:H	1.73	0.54
85:2:781:G:H2'	85:2:782:G:C8	2.42	0.54
85:2:923:C:O2'	85:2:924:C:H5'	2.06	0.54
85:2:940:G:H2'	85:2:941:C:C6	2.43	0.54
85:2:949:U:O2'	85:2:950:U:O4'	2.25	0.54
85:2:1399:G:HO2'	85:2:1400:C:H6	1.53	0.54
6:Ae:21:ASN:HD21	30:AF:211:PRO:HD3	1.73	0.54
11:Ak:148:ARG:HA	11:Ak:168:LEU:HD11	1.89	0.54
18:Ar:180:LEU:HD13	18:Ar:189:ILE:HA	1.90	0.54
22:Av:223:LEU:C	22:Av:225:SER:H	2.14	0.54
25:Ay:92:GLN:HA	25:Ay:95:GLN:HG2	1.89	0.54
32:AH:12:LEU:HD22	32:AH:46:VAL:HG13	1.88	0.54
33:AI:133:GLU:OE2	33:AI:187:ARG:NH2	2.33	0.54
41:AQ:215:THR:HB	41:AQ:246:ASN:HD22	1.72	0.54
41:AQ:443:ASN:CG	41:AQ:446:THR:HG23	2.33	0.54
43:1:44:G:O2'	43:1:45:A:O5'	2.24	0.54
43:1:66:G:N2	43:1:597:A:N7	2.51	0.54
43:1:188:A:H8	43:1:189:A:H2'	1.73	0.54
43:1:890:U:O2'	43:1:2909:C:O2'	2.25	0.54
43:1:1219:A:N7	43:1:1245:A:O2'	2.35	0.54
43:1:1390:U:H2'	43:1:1391:G:O4'	2.07	0.54
43:1:1445:C:H2'	43:1:1446:A:C8	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1884:C:H2'	43:1:1885:U:H6	1.73	0.54
43:1:2194:G:C6	43:1:2195:A:C6	2.96	0.54
43:1:2392:U:H2'	43:1:2393:A:H8	1.72	0.54
43:1:2591:G:H2'	43:1:2592:G:H8	1.72	0.54
46:Bf:110:CYS:O	46:Bf:114:GLU:HG2	2.08	0.54
47:Bh:358:LEU:HB3	52:Bw:463:TYR:CD1	2.43	0.54
48:Bi:171:VAL:HG22	48:Bi:172:ASP:HB2	1.90	0.54
50:Bm:76:ARG:HD3	50:Bm:122:ARG:HB3	1.89	0.54
51:Br:148:LYS:N	51:Br:148:LYS:HD2	2.22	0.54
62:Bd:330:ARG:NH1	62:Bd:334:GLU:OE1	2.41	0.54
68:Bp:32:ARG:NH1	89:Bk:4:PHE:CG	2.76	0.54
76:BD:162:MET:O	76:BD:166:VAL:HG23	2.08	0.54
85:2:83:U:H3'	85:2:83:U:OP2	2.08	0.54
85:2:419:C:H2'	85:2:420:G:C8	2.42	0.54
85:2:942:A:C6	85:2:1583:G:N1	2.76	0.54
85:2:1019:A:C2'	85:2:1020:U:H5'	2.38	0.54
85:2:1188:A:C5	85:2:1205:G:N2	2.76	0.54
85:2:1794:A:N1	85:2:1854:G:C6	2.76	0.54
3:Ac:96:ARG:NH1	16:Ap:168:ASN:OD1	2.32	0.54
11:Ak:125:ASP:OD1	11:Ak:126:ASN:N	2.35	0.54
17:Aq:100:ASP:OD1	17:Aq:103:ARG:NH2	2.27	0.54
19:As:111:LYS:HE2	19:As:205:ARG:HH22	1.72	0.54
19:As:145:ARG:NH1	43:1:1484:A:O4'	2.40	0.54
19:As:192:ALA:HB3	43:1:891:G:H4'	1.90	0.54
21:Au:138:THR:O	21:Au:141:GLU:N	2.32	0.54
28:AC:35:GLU:OE1	28:AC:35:GLU:N	2.28	0.54
43:1:274:G:N2	43:1:297:C:O2	2.41	0.54
43:1:620:A:H1'	43:1:621:A:H5''	1.89	0.54
43:1:859:A:H61	66:Bn:412:ARG:NE	2.06	0.54
43:1:1198:C:H2'	43:1:1199:A:H8	1.73	0.54
43:1:1537:G:N2	43:1:1539:U:O4'	2.41	0.54
43:1:1587:U:H1'	43:1:1589:U:H5	1.72	0.54
43:1:2378:G:C6	43:1:2380:G:C6	2.96	0.54
44:3:86:G:P	86:Az:31:ARG:HD2	2.47	0.54
48:Bi:150:HIS:ND1	85:2:1116:G:H5'	2.22	0.54
50:Bm:109:TYR:O	50:Bm:113:LYS:CG	2.46	0.54
51:Br:174:VAL:CG1	51:Br:196:PHE:CZ	2.81	0.54
61:Bc:209:ARG:HG3	61:Bc:210:LEU:H	1.72	0.54
62:Bd:439:LYS:NZ	85:2:858:A:OP1	2.31	0.54
85:2:1212:U:O2'	85:2:1213:C:C6	2.57	0.54
85:2:1627:C:H1'	85:2:1632:C:O2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:Ap:190:SER:HB3	16:Ap:193:LEU:HG	1.88	0.53
17:Aq:20:CYS:HB3	43:1:731:C:OP1	2.08	0.53
26:AA:59:ASN:N	33:AI:71:ASP:OD2	2.40	0.53
37:AM:71:LEU:O	37:AM:73:VAL:N	2.40	0.53
40:AP:375:ALA:O	40:AP:377:ALA:N	2.41	0.53
43:1:1082:U:C4	43:1:1083:U:C4	2.96	0.53
43:1:1193:G:H4'	43:1:1196:G:H4'	1.89	0.53
43:1:1437:G:H2'	43:1:1438:U:C6	2.43	0.53
43:1:1582:G:H1'	43:1:1583:C:O4'	2.07	0.53
43:1:1837:G:HO2'	43:1:1838:A:H8	1.56	0.53
43:1:1848:U:H5''	43:1:1849:A:C5	2.43	0.53
43:1:2045:C:H1'	43:1:2046:U:H5'	1.90	0.53
43:1:2803:G:N1	43:1:2874:G:N7	2.56	0.53
43:1:2841:G:O6	43:1:3060:A:N6	2.41	0.53
45:Bb:448:SER:HA	45:Bb:541:TYR:OH	2.08	0.53
48:Bi:158:ASP:OD1	48:Bi:159:THR:N	2.41	0.53
48:Bi:167:ARG:NH2	85:2:1050:G:O2'	2.41	0.53
48:Bi:191:LYS:O	48:Bi:193:GLN:N	2.41	0.53
61:Bc:84:ILE:HG23	61:Bc:87:MET:HE2	1.91	0.53
62:Bd:336:ARG:O	62:Bd:340:GLU:HG2	2.08	0.53
73:By:68:HIS:HB2	73:By:124:ILE:HG21	1.90	0.53
77:BE:82:GLU:HG3	82:BM:34:ALA:HB1	1.90	0.53
77:BE:148:THR:HG23	77:BE:170:LEU:HD13	1.90	0.53
78:BI:170:ALA:O	78:BI:174:ALA:N	2.41	0.53
85:2:164:A:N7	85:2:165:A:C8	2.76	0.53
85:2:289:A:H2'	85:2:290:C:C6	2.43	0.53
85:2:396:G:H2'	85:2:397:G:C8	2.28	0.53
85:2:1385:C:H3'	85:2:1386:G:P	2.39	0.53
85:2:1496:A:H5'	85:2:1497:C:OP2	2.08	0.53
85:2:1519:A:H3'	85:2:1520:U:C6	2.42	0.53
85:2:1761:C:N3	85:2:1885:G:N1	2.55	0.53
85:2:1917:C:H2'	85:2:1918:U:C6	2.43	0.53
2:Ab:116:LYS:HD2	43:1:2116:G:O2'	2.09	0.53
5:Ad:136:HIS:CD2	5:Ad:179:PRO:CB	2.69	0.53
6:Ae:133:THR:CB	6:Ae:155:PHE:HD2	2.13	0.53
8:Ag:72:HIS:CD2	8:Ag:76:LYS:HD2	2.43	0.53
10:Aj:123:TRP:HE1	10:Aj:132:ARG:HH21	1.54	0.53
25:Ay:129:PRO:HG2	25:Ay:132:ARG:HD2	1.89	0.53
33:AI:140:PRO:HG2	33:AI:145:CYS:HB2	1.90	0.53
41:AQ:187:ARG:NH2	43:1:140:C:O2	2.41	0.53
43:1:590:A:C6	43:1:591:G:C5	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:698:U:P	43:1:699:C:H5'	2.47	0.53
43:1:860:A:C2	43:1:861:C:H1'	2.44	0.53
43:1:1476:G:C2	43:1:1477:U:N3	2.76	0.53
43:1:1567:U:H2'	43:1:1568:G:C8	2.43	0.53
43:1:2070:G:N2	43:1:2073:C:OP2	2.41	0.53
43:1:2220:A:H2'	43:1:2221:G:H8	1.74	0.53
43:1:2298:C:H2'	43:1:2299:C:H6	1.73	0.53
43:1:2383:C:H2'	43:1:2384:C:H6	1.70	0.53
43:1:2435:G:N2	43:1:2471:C:H1'	2.23	0.53
43:1:3071:A:C6	43:1:3073:A:C6	2.96	0.53
43:1:3131:G:N1	43:1:3135:G:O6	2.41	0.53
43:1:3135:G:H2'	43:1:3136:G:H8	1.73	0.53
64:Bg:10:LEU:HD23	64:Bg:71:CYS:O	2.07	0.53
65:Bj:256:LYS:HZ1	65:Bj:286:ARG:HG2	1.74	0.53
77:BE:83:ASN:HB3	77:BE:86:ILE:HG22	1.90	0.53
85:2:112:U:HO2'	85:2:113:C:H6	1.55	0.53
85:2:460:C:N4	85:2:494:G:H1	2.05	0.53
85:2:955:C:H1'	85:2:1551:C:H42	1.72	0.53
85:2:1133:C:O2	85:2:1485:G:C2	2.61	0.53
9:Ai:99:THR:OG1	9:Ai:100:ARG:NH2	2.41	0.53
11:Ak:68:ILE:O	11:Ak:69:GLN:HG2	2.09	0.53
14:An:52:GLY:HA2	14:An:77:PHE:HD1	1.73	0.53
16:Ap:125:ARG:HE	16:Ap:189:TYR:HE1	1.56	0.53
16:Ap:172:ARG:NH2	16:Ap:213:ARG:HH12	2.07	0.53
33:AI:139:GLU:HB3	33:AI:140:PRO:HD3	1.90	0.53
43:1:228:U:C2	43:1:229:A:C8	2.96	0.53
43:1:436:G:H2'	43:1:437:G:C8	2.43	0.53
43:1:506:A:C4	43:1:507:A:C8	2.97	0.53
43:1:762:A:C8	43:1:766:G:N1	2.76	0.53
43:1:855:C:N3	43:1:856:U:H1'	2.23	0.53
43:1:887:A:O2'	43:1:1994:U:OP1	2.25	0.53
43:1:1068:C:H2'	43:1:1069:A:H8	1.73	0.53
43:1:1411:U:H5''	43:1:1412:G:H5''	1.91	0.53
43:1:1557:G:H2'	43:1:1558:A:H8	1.73	0.53
43:1:1935:C:H2'	43:1:1936:G:C8	2.43	0.53
43:1:3044:C:H2'	43:1:3045:U:O4'	2.08	0.53
45:Bb:65:PHE:HB2	45:Bb:68:ARG:HB2	1.89	0.53
45:Bb:519:ILE:HG22	45:Bb:540:SER:HA	1.88	0.53
54:Bz:341:HIS:ND1	54:Bz:344:LYS:O	2.41	0.53
62:Bd:505:PHE:HB3	77:BE:47:GLY:HA3	1.90	0.53
63:Be:39:GLU:O	63:Be:68:THR:OG1	2.18	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:Be:94:VAL:HG23	63:Be:95:LYS:N	2.23	0.53
77:BE:65:LEU:HD11	77:BE:99:CYS:SG	2.48	0.53
77:BE:182:ASP:OD1	77:BE:182:ASP:N	2.42	0.53
85:2:16:A:O2'	85:2:17:G:O5'	2.22	0.53
85:2:53:U:H2'	85:2:54:G:C8	2.43	0.53
85:2:252:C:H2'	85:2:253:C:C6	2.42	0.53
85:2:366:G:H2'	85:2:367:G:O4'	2.07	0.53
85:2:865:G:C8	85:2:867:A:C8	2.96	0.53
85:2:1174:G:C2	85:2:1398:G:C2	2.97	0.53
85:2:1214:G:C6	85:2:1215:A:C6	2.96	0.53
85:2:1535:G:H2'	85:2:1536:G:H8	1.73	0.53
2:Ab:155:ARG:HH11	43:1:2106:A:P	2.31	0.53
7:Af:19:ARG:HG3	7:Af:28:TYR:HB2	1.90	0.53
16:Ap:125:ARG:NH1	16:Ap:189:TYR:OH	2.42	0.53
43:1:455:A:H5'	43:1:473:A:C1'	2.38	0.53
43:1:584:A:N3	43:1:1357:U:H1'	2.24	0.53
43:1:1003:G:O2'	43:1:1004:U:OP2	2.27	0.53
43:1:1858:U:O2'	43:1:1859:C:OP2	2.24	0.53
43:1:2184:U:H3'	43:1:2185:A:H4'	1.90	0.53
43:1:2200:A:N3	43:1:2397:U:O2'	2.33	0.53
43:1:2368:G:N2	43:1:2369:U:O2	2.41	0.53
44:3:25:G:H4'	44:3:26:A:H5''	1.90	0.53
45:Bb:46:ARG:C	45:Bb:48:PRO:HD3	2.34	0.53
45:Bb:398:MET:O	45:Bb:402:ILE:HG13	2.08	0.53
47:Bh:326:GLY:HA2	52:Bw:463:TYR:OH	2.08	0.53
52:Bw:142:TYR:OH	52:Bw:437:ALA:O	2.15	0.53
52:Bw:445:GLN:H	52:Bw:448:VAL:HG11	1.73	0.53
54:Bz:292:ARG:NH1	54:Bz:318:THR:OG1	2.41	0.53
60:Ba:75:LEU:CB	60:Ba:185:VAL:HG11	2.36	0.53
65:Bj:304:ASN:ND2	85:2:712:C:H1'	2.23	0.53
69:Bq:188:THR:OG1	69:Bq:189:GLU:OE1	2.27	0.53
76:BD:186:LYS:O	76:BD:189:MET:HG2	2.08	0.53
77:BE:333:THR:HA	77:BE:336:TYR:HB3	1.91	0.53
85:2:1441:G:O3'	85:2:1442:G:O5'	2.24	0.53
85:2:1499:C:C4	85:2:1500:A:N7	2.76	0.53
85:2:1510:G:O6	85:2:1526:A:C6	2.62	0.53
85:2:1526:A:H2'	85:2:1527:G:C8	2.44	0.53
85:2:1616:G:N1	85:2:1619:A:OP2	2.26	0.53
11:Ak:93:ASN:OD1	11:Ak:93:ASN:N	2.40	0.53
21:Au:137:ASP:OD2	31:AG:74:LYS:N	2.40	0.53
25:Ay:75:LYS:HD3	31:AG:70:GLY:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AC:46:VAL:HG11	35:AK:101:MET:SD	2.48	0.53
28:AC:50:VAL:HG13	35:AK:104:MET:HE2	1.90	0.53
35:AK:44:TRP:CD1	43:1:546:A:N6	2.75	0.53
35:AK:112:LYS:HD3	35:AK:115:ARG:HE	1.73	0.53
36:AL:69:SER:O	36:AL:71:THR:N	2.41	0.53
39:AO:162:ASN:HB3	39:AO:194:TYR:HD2	1.73	0.53
41:AQ:159:PHE:HA	41:AQ:162:MET:HB3	1.91	0.53
41:AQ:191:PRO:HA	41:AQ:194:VAL:HB	1.91	0.53
43:1:434:A:N3	43:1:435:A:H1'	2.24	0.53
43:1:629:A:N6	43:1:632:A:OP2	2.41	0.53
43:1:906:U:N3	43:1:1558:A:OP1	2.41	0.53
43:1:1311:C:C4	43:1:1312:G:N7	2.77	0.53
43:1:1359:U:H2'	43:1:1397:A:H61	1.71	0.53
43:1:1427:G:O2'	43:1:1953:A:OP1	2.17	0.53
43:1:1556:C:H2'	43:1:1557:G:C8	2.44	0.53
43:1:1611:G:O2'	43:1:1612:G:H8	1.90	0.53
43:1:1984:G:C2	43:1:1985:A:C8	2.96	0.53
43:1:2568:A:H4'	43:1:2569:A:C4	2.43	0.53
44:3:25:G:H22	44:3:65:G:N2	2.07	0.53
46:Bf:121:LYS:O	46:Bf:122:ARG:NE	2.40	0.53
49:Bl:103:GLY:O	49:Bl:107:GLN:HG2	2.08	0.53
54:Bz:311:ARG:CD	54:Bz:355:GLU:C	2.81	0.53
61:Bc:116:PHE:O	61:Bc:117:LEU:HG	2.08	0.53
66:Bn:320:HIS:C	66:Bn:322:ASP:H	2.17	0.53
85:2:79:G:C6	85:2:163:A:C2	2.96	0.53
85:2:626:A:H5''	85:2:627:U:O4'	2.09	0.53
85:2:627:U:H5''	85:2:628:G:H8	1.72	0.53
85:2:741:C:H2'	85:2:742:C:H5	1.72	0.53
85:2:918:G:N1	85:2:920:G:O6	2.42	0.53
85:2:1040:G:N1	85:2:1560:C:C4	2.76	0.53
85:2:1491:G:N3	85:2:1491:G:H2'	2.22	0.53
85:2:1710:G:N7	85:2:1711:C:N4	2.55	0.53
85:2:1784:G:H2'	85:2:1785:C:C6	2.43	0.53
85:2:1803:C:C4	85:2:1843:G:N2	2.77	0.53
12:Al:177:ARG:HA	12:Al:196:ARG:O	2.09	0.53
24:Ax:52:HIS:N	43:1:528:G:OP1	2.27	0.53
25:Ay:54:VAL:HA	25:Ay:56:TYR:HE1	1.74	0.53
34:AJ:64:VAL:HG11	34:AJ:85:LYS:CA	2.31	0.53
39:AO:256:GLU:OE2	39:AO:265:THR:HG23	2.08	0.53
41:AQ:337:ARG:HB3	41:AQ:340:GLU:OE1	2.08	0.53
43:1:605:U:C4	43:1:932:A:C5	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:639:U:H2'	43:1:640:G:O4'	2.09	0.53
43:1:889:G:H21	43:1:894:A:H61	1.55	0.53
43:1:953:G:C6	43:1:954:U:N3	2.77	0.53
43:1:978:G:C2	43:1:979:A:C8	2.96	0.53
43:1:1186:A:N6	43:1:1268:G:C6	2.77	0.53
43:1:1225:C:H3'	43:1:1226:A:H8	1.73	0.53
43:1:1296:G:C2	43:1:1297:A:C5	2.96	0.53
43:1:1489:A:C6	43:1:1944:A:C5	2.96	0.53
43:1:1572:A:H2'	43:1:1573:C:C6	2.43	0.53
43:1:2017:A:H2'	43:1:2018:C:H6	1.72	0.53
43:1:2532:G:H2'	43:1:2533:C:C6	2.43	0.53
43:1:2586:G:H2'	43:1:2587:C:C6	2.44	0.53
43:1:2823:G:O2'	43:1:3044:C:O2'	2.27	0.53
43:1:2848:G:H2'	43:1:2849:U:H6	1.73	0.53
43:1:3042:A:H2'	43:1:3043:A:C8	2.43	0.53
49:Bl:112:VAL:O	49:Bl:113:ASP:HB2	2.09	0.53
52:Bw:150:LEU:HA	52:Bw:153:VAL:HG22	1.90	0.53
61:Bc:241:CYS:HB3	61:Bc:297:PHE:CE2	2.44	0.53
72:Bv:132:ASP:O	72:Bv:136:ARG:HG3	2.08	0.53
77:BE:127:TYR:CE2	77:BE:336:TYR:HA	2.44	0.53
78:BI:260:ALA:O	78:BI:265:ALA:N	2.30	0.53
85:2:486:U:H2'	85:2:487:C:C6	2.44	0.53
85:2:691:A:H2'	85:2:692:U:H6	1.74	0.53
85:2:732:C:C2	85:2:733:U:C5	2.97	0.53
85:2:876:C:N4	85:2:877:U:O4	2.42	0.53
85:2:1407:G:P	88:BK:18:ALA:HB2	2.48	0.53
87:Ah:121:TYR:CE1	87:Ah:126:TYR:CB	2.84	0.53
11:Ak:158:ARG:HG3	11:Ak:163:LEU:HD21	1.91	0.53
32:AH:103:ASP:O	32:AH:107:VAL:HG23	2.08	0.53
32:AH:114:LEU:O	32:AH:117:SER:OG	2.27	0.53
41:AQ:365:ARG:C	41:AQ:367:LEU:H	2.17	0.53
43:1:43:U:N3	43:1:44:G:N7	2.56	0.53
43:1:979:A:C4	43:1:980:G:C8	2.97	0.53
43:1:1357:U:H2'	43:1:1358:G:C8	2.40	0.53
43:1:1674:A:N1	43:1:1870:C:C2	2.77	0.53
43:1:1872:A:O2'	43:1:1873:G:H8	1.79	0.53
44:3:65:G:N7	44:3:66:U:N3	2.56	0.53
45:Bb:478:ILE:O	45:Bb:480:LYS:N	2.42	0.53
68:Bp:6:GLY:HA3	68:Bp:21:VAL:HG22	1.90	0.53
73:By:86:LEU:HD21	73:By:90:GLY:H	1.74	0.53
77:BE:174:GLU:HB3	77:BE:179:PHE:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
77:BE:212:MET:O	77:BE:217:LEU:N	2.42	0.53
85:2:427:U:O2	85:2:453:G:N2	2.39	0.53
85:2:502:G:H2'	85:2:503:G:C8	2.43	0.53
85:2:530:A:O2'	85:2:532:A:OP2	2.26	0.53
85:2:564:G:O6	89:Bk:12:ARG:NH1	2.39	0.53
85:2:916:A:H2'	85:2:917:C:O4'	2.09	0.53
85:2:985:U:H5''	85:2:986:G:C2	2.43	0.53
85:2:1477:A:O2'	85:2:1478:C:O5'	2.27	0.53
88:BK:117:ALA:HB3	88:BK:120:ALA:HB3	1.91	0.53
1:Aa:40:LEU:O	1:Aa:41:LEU:HD22	2.09	0.53
2:Ab:94:ASN:OD1	2:Ab:94:ASN:N	2.42	0.53
8:Ag:74:MET:HB3	8:Ag:75:PRO:HD3	1.91	0.53
12:Al:197:VAL:HG23	12:Al:198:THR:O	2.08	0.53
13:Am:103:ARG:NH1	22:Av:174:GLY:HA2	2.24	0.53
21:Au:81:VAL:O	21:Au:89:PRO:HD3	2.09	0.53
33:AI:216:LEU:HA	33:AI:219:PHE:HD2	1.73	0.53
34:AJ:12:PHE:HE1	34:AJ:18:ARG:HE	1.55	0.53
34:AJ:66:GLU:CB	34:AJ:81:MET:O	2.55	0.53
36:AL:54:LEU:HD11	86:Az:59:ARG:HB3	1.90	0.53
39:AO:184:LEU:HG	39:AO:189:VAL:HB	1.91	0.53
40:AP:197:ALA:O	40:AP:201:ALA:HB2	2.08	0.53
40:AP:608:ALA:HB1	43:1:267:G:N2	2.24	0.53
43:1:147:G:O2'	43:1:148:C:OP2	2.23	0.53
43:1:555:C:O2	43:1:2181:U:O2'	2.19	0.53
43:1:892:G:C8	43:1:894:A:N7	2.77	0.53
43:1:932:A:H4'	43:1:933:A:H5''	1.91	0.53
43:1:957:U:H2'	43:1:958:C:H6	1.73	0.53
43:1:1177:A:N6	43:1:1274:G:H2'	2.24	0.53
43:1:1872:A:O2'	43:1:1873:G:O5'	2.26	0.53
43:1:1880:G:OP1	43:1:1882:A:H4'	2.08	0.53
43:1:3096:G:O2'	43:1:3100:A:N6	2.42	0.53
55:BA:40:PHE:CD1	55:BA:57:GLN:HG3	2.44	0.53
61:Bc:51:SER:O	61:Bc:55:ARG:N	2.42	0.53
62:Bd:370:LYS:HE3	62:Bd:379:ARG:HB2	1.90	0.53
63:Be:94:VAL:O	63:Be:95:LYS:HG2	2.08	0.53
67:Bo:6:ARG:NH2	67:Bo:28:PRO:O	2.42	0.53
85:2:147:G:N2	85:2:148:G:C4	2.77	0.53
85:2:291:C:H2'	85:2:292:A:C8	2.44	0.53
85:2:498:C:H2'	85:2:499:C:C6	2.44	0.53
85:2:631:U:H2'	85:2:632:U:H6	1.74	0.53
85:2:1510:G:C6	85:2:1511:C:C4	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1885:G:H2'	85:2:1886:U:C6	2.43	0.53
15:Ao:55:GLU:HG2	15:Ao:56:THR:N	2.24	0.53
18:Ar:154:SER:OG	18:Ar:155:ASN:N	2.42	0.53
24:Ax:84:ILE:HG23	24:Ax:85:PHE:H	1.73	0.53
32:AH:102:MET:HG2	32:AH:103:ASP:H	1.74	0.53
33:AI:151:LYS:HD2	33:AI:156:ASP:HA	1.91	0.53
36:AL:61:ASP:C	36:AL:63:PRO:HD3	2.34	0.53
39:AO:41:GLN:HG2	43:1:1873:G:OP1	2.09	0.53
41:AQ:141:HIS:CE1	41:AQ:169:TYR:HD1	2.27	0.53
41:AQ:360:TYR:CE2	41:AQ:383:MET:HA	2.44	0.53
43:1:823:G:H2'	43:1:824:A:C8	2.44	0.53
43:1:859:A:H4'	43:1:861:C:O5'	2.09	0.53
43:1:1261:G:H2'	43:1:1262:C:H6	1.74	0.53
43:1:1565:U:N3	43:1:1662:G:N7	2.57	0.53
43:1:2268:G:H2'	43:1:2269:C:C6	2.43	0.53
43:1:2376:C:H2'	43:1:2377:C:C6	2.43	0.53
43:1:2544:G:C6	43:1:2545:U:C4	2.97	0.53
49:Bl:62:GLN:NE2	52:Bw:369:GLU:OE1	2.41	0.53
52:Bw:433:ASP:O	52:Bw:436:GLU:N	2.41	0.53
72:Bv:90:MET:O	72:Bv:93:VAL:HG12	2.08	0.53
72:Bv:125:ALA:HB2	72:Bv:128:ARG:HH11	1.74	0.53
73:By:99:VAL:HG12	73:By:107:ALA:HB2	1.91	0.53
85:2:159:G:OP2	85:2:233:A:N6	2.42	0.53
85:2:658:A:C2	85:2:738:G:C2	2.97	0.53
88:BK:101:ALA:HA	88:BK:131:ALA:HB1	1.90	0.53
3:Ac:188:THR:HG22	3:Ac:242:ALA:O	2.09	0.53
10:Aj:42:LEU:HB3	43:1:1289:C:OP1	2.09	0.53
14:An:128:GLN:NE2	43:1:3152:U:O2	2.42	0.53
17:Aq:22:ARG:NH2	43:1:730:U:OP1	2.42	0.53
18:Ar:168:ASP:OD1	18:Ar:169:ILE:HG12	2.09	0.53
30:AF:168:ALA:HB2	33:AI:50:PHE:CE1	2.44	0.53
33:AI:225:GLU:O	33:AI:228:ASN:ND2	2.42	0.53
41:AQ:362:VAL:HG23	41:AQ:365:ARG:NH2	2.25	0.53
41:AQ:449:ASN:HA	41:AQ:452:TYR:HB2	1.91	0.53
43:1:33:G:C5	43:1:34:C:C5	2.97	0.53
43:1:182:A:C5	43:1:183:C:C5	2.96	0.53
43:1:444:G:N1	43:1:461:U:C4	2.77	0.53
43:1:453:A:O2'	43:1:455:A:OP2	2.27	0.53
43:1:519:U:O4'	43:1:521:G:N2	2.42	0.53
43:1:858:U:O2'	66:Bn:387:ARG:NH2	2.42	0.53
43:1:1553:U:H1'	43:1:1897:A:H61	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1910:A:O2'	43:1:1911:G:O5'	2.27	0.53
43:1:2396:U:C2	43:1:2397:U:C5	2.97	0.53
43:1:2691:U:C2	43:1:2692:C:C6	2.97	0.53
43:1:2836:C:H2'	43:1:2837:C:C6	2.43	0.53
48:Bi:156:MET:HE1	48:Bi:184:LYS:HG2	1.91	0.53
49:Bl:46:LYS:HG3	49:Bl:71:ASN:O	2.09	0.53
51:Br:147:MET:HG3	51:Br:147:MET:O	2.09	0.53
51:Br:177:TYR:O	51:Br:177:TYR:CG	2.62	0.53
66:Bn:389:LYS:NZ	85:2:578:G:OP1	2.42	0.53
68:Bp:18:VAL:HG23	68:Bp:40:PHE:O	2.08	0.53
72:Bv:80:TYR:HA	72:Bv:83:GLU:CD	2.34	0.53
76:BD:169:LYS:O	76:BD:172:LYS:HB3	2.09	0.53
85:2:223:A:H2'	85:2:224:A:C8	2.43	0.53
85:2:377:U:H2'	85:2:378:G:C8	2.43	0.53
85:2:470:G:H22	85:2:483:G:N2	2.07	0.53
85:2:803:C:H2'	85:2:804:A:H8	1.74	0.53
85:2:1156:G:C8	85:2:1158:A:H2	2.27	0.53
85:2:1394:A:HO2'	85:2:1395:C:H6	1.51	0.53
85:2:1556:G:C4	85:2:1557:G:C8	2.97	0.53
85:2:1756:C:H2'	85:2:1757:A:H8	1.73	0.53
87:Ah:28:ASN:HD22	87:Ah:110:ASN:HB2	1.74	0.53
87:Ah:50:THR:HB	87:Ah:83:LEU:HD21	1.90	0.53
3:Ac:122:ALA:HA	3:Ac:157:PHE:O	2.08	0.52
16:Ap:163:ARG:NH1	43:1:2985:A:OP1	2.42	0.52
20:At:31:PHE:HE2	20:At:33:LEU:HD21	1.74	0.52
40:AP:456:ALA:HB1	40:AP:465:ALA:HB1	1.91	0.52
41:AQ:307:GLU:O	41:AQ:311:LEU:HG	2.09	0.52
43:1:135:C:N3	43:1:150:C:N4	2.56	0.52
43:1:164:A:O2'	43:1:165:A:OP1	2.24	0.52
43:1:555:C:H2'	43:1:556:A:C8	2.40	0.52
43:1:999:C:H2'	43:1:1000:G:H8	1.74	0.52
43:1:1081:U:H2'	43:1:1082:U:H6	1.72	0.52
43:1:1191:G:H2'	43:1:1192:C:O4'	2.10	0.52
43:1:1641:U:H4'	43:1:1642:C:OP1	2.07	0.52
43:1:2666:C:H2'	43:1:2667:A:H8	1.75	0.52
43:1:2767:A:C6	43:1:2780:A:C8	2.97	0.52
43:1:2852:U:H2'	43:1:2853:U:H6	1.74	0.52
44:3:19:A:N6	44:3:70:G:H21	1.99	0.52
44:3:61:A:H4'	44:3:62:A:O5'	2.08	0.52
44:3:72:G:C6	44:3:105:U:O2	2.62	0.52
51:Br:145:PHE:HB3	85:2:1668:A:OP1	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:Bz:294:GLN:HB2	54:Bz:314:LYS:HB3	1.91	0.52
56:Bt:66:GLY:H	56:Bt:69:ARG:HB3	1.74	0.52
61:Bc:353:TRP:HB3	62:Bd:469:LYS:HB3	1.91	0.52
66:Bn:395:ARG:NE	66:Bn:413:ASP:OD2	2.41	0.52
85:2:486:U:H2'	85:2:487:C:H6	1.74	0.52
85:2:564:G:O2'	85:2:565:G:OP1	2.24	0.52
85:2:671:A:H2'	85:2:672:U:H6	1.73	0.52
85:2:817:U:H4'	85:2:818:G:OP2	2.09	0.52
85:2:1468:C:O2'	85:2:1469:C:O5'	2.26	0.52
85:2:1649:G:O2'	85:2:1653:G:N2	2.41	0.52
87:Ah:121:TYR:HD1	87:Ah:126:TYR:CD1	2.11	0.52
10:Aj:44:ARG:HG2	43:1:1161:C:N3	2.24	0.52
18:Ar:122:LYS:HB3	18:Ar:175:LEU:HD13	1.90	0.52
40:AP:587:ALA:HA	40:AP:595:ALA:HB3	1.92	0.52
40:AP:610:ALA:C	40:AP:615:ALA:H	2.17	0.52
43:1:312:G:H1'	43:1:313:U:C5	2.44	0.52
43:1:695:C:HO2'	43:1:696:A:H8	1.57	0.52
43:1:800:U:C6	43:1:801:U:H5	2.26	0.52
43:1:1057:A:O2'	43:1:1058:A:O4'	2.18	0.52
45:Bb:423:MET:HA	45:Bb:426:PHE:CD2	2.45	0.52
46:Bf:79:VAL:HB	46:Bf:83:ARG:HB2	1.91	0.52
51:Br:166:LEU:HD13	51:Br:169:TYR:CB	2.17	0.52
51:Br:176:ILE:HG22	51:Br:177:TYR:H	1.74	0.52
53:Bx:24:ARG:HH12	54:Bz:335:LEU:HA	1.74	0.52
85:2:47:G:C6	85:2:422:G:C6	2.97	0.52
85:2:240:C:H2'	85:2:241:U:C6	2.44	0.52
85:2:277:A:H2'	85:2:278:G:C8	2.45	0.52
85:2:344:A:H3'	85:2:345:G:H8	1.74	0.52
85:2:397:G:C6	85:2:398:C:N4	2.76	0.52
85:2:488:G:N2	85:2:489:A:C8	2.78	0.52
85:2:620:G:H2'	85:2:621:G:H8	1.74	0.52
85:2:1119:G:C2	85:2:1120:C:C4	2.97	0.52
88:BK:70:ALA:O	88:BK:74:ALA:N	2.43	0.52
3:Ac:250:VAL:HG11	3:Ac:265:ARG:NH1	2.24	0.52
3:Ac:254:LYS:HB3	3:Ac:263:TRP:CE3	2.44	0.52
11:Ak:120:GLU:HB3	16:Ap:185:MET:HB3	1.89	0.52
32:AH:122:VAL:HG22	43:1:1377:U:OP1	2.09	0.52
41:AQ:224:LYS:HB3	41:AQ:226:HIS:CD2	2.45	0.52
41:AQ:266:ARG:NH1	41:AQ:270:GLU:OE1	2.41	0.52
43:1:1556:C:H2'	43:1:1557:G:H8	1.75	0.52
43:1:1558:A:H2'	43:1:1559:A:C8	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1568:G:H3'	43:1:1569:A:C8	2.45	0.52
43:1:1860:U:O2'	43:1:1861:U:H5'	2.09	0.52
43:1:2176:A:H2'	43:1:2177:G:H8	1.71	0.52
43:1:2246:G:H2'	43:1:2273:C:H42	1.74	0.52
45:Bb:63:LEU:HB2	45:Bb:70:PHE:HB2	1.91	0.52
45:Bb:70:PHE:CD1	45:Bb:436:LEU:HD13	2.44	0.52
54:Bz:405:GLN:O	54:Bz:409:ILE:HG13	2.08	0.52
60:Ba:86:ARG:HA	60:Ba:90:ASP:OD1	2.09	0.52
61:Bc:67:ILE:HG23	61:Bc:347:ASP:HB3	1.91	0.52
67:Bo:93:ARG:HB2	85:2:476:A:H5''	1.90	0.52
75:BC:98:TYR:O	75:BC:101:GLY:N	2.43	0.52
77:BE:181:PRO:HG2	77:BE:201:ALA:HB1	1.92	0.52
85:2:203:A:H2'	85:2:204:C:H6	1.74	0.52
85:2:281:A:H8	85:2:281:A:OP1	1.92	0.52
85:2:1191:U:O4	85:2:1204:A:H2	1.92	0.52
12:Al:80:ARG:HH21	12:Al:83:ARG:NH1	2.06	0.52
20:At:26:THR:OG1	20:At:96:ARG:NH1	2.43	0.52
43:1:436:G:H2'	43:1:437:G:H8	1.74	0.52
43:1:560:U:H2'	43:1:561:C:C6	2.44	0.52
43:1:571:G:H5''	43:1:572:U:OP2	2.09	0.52
43:1:733:G:H2'	43:1:734:C:C6	2.44	0.52
43:1:1191:G:N1	43:1:1263:U:N3	2.57	0.52
43:1:1851:U:H4'	43:1:1852:C:OP1	2.10	0.52
43:1:2049:U:O4	43:1:2062:G:O6	2.26	0.52
43:1:2592:G:H2'	43:1:2593:U:H6	1.75	0.52
44:3:12:U:O2'	44:3:13:A:OP1	2.27	0.52
46:Bf:27:ARG:HH12	46:Bf:31:ILE:HD11	1.75	0.52
49:Bl:42:ASN:ND2	49:Bl:74:ALA:O	2.37	0.52
51:Br:177:TYR:C	51:Br:177:TYR:CD2	2.86	0.52
53:Bx:26:PHE:CZ	54:Bz:371:LEU:HD11	2.44	0.52
56:Bt:56:LYS:HB2	56:Bt:68:SER:OG	2.09	0.52
61:Bc:209:ARG:O	61:Bc:213:LYS:HG2	2.09	0.52
85:2:42:C:O2'	89:Bk:98:ILE:HD11	2.08	0.52
85:2:130:U:H3	85:2:152:G:N2	2.01	0.52
85:2:133:C:HO2'	85:2:134:U:H6	1.55	0.52
85:2:395:G:H2'	85:2:396:G:C8	2.45	0.52
85:2:591:C:H2'	85:2:592:G:C8	2.45	0.52
85:2:611:C:H2'	85:2:612:C:C6	2.43	0.52
85:2:666:G:N2	85:2:731:U:C2	2.77	0.52
85:2:913:U:H2'	85:2:914:U:C6	2.45	0.52
85:2:1173:C:HO2'	85:2:1174:G:H8	1.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1375:G:C6	85:2:1376:A:C6	2.98	0.52
85:2:1385:C:O2'	85:2:1386:G:H8	1.92	0.52
85:2:1406:G:C2'	85:2:1407:G:H5'	2.38	0.52
85:2:1690:U:H2'	85:2:1691:C:C6	2.44	0.52
85:2:1860:U:HO2'	85:2:1861:A:H8	1.57	0.52
86:Az:31:ARG:NH2	86:Az:31:ARG:HB3	2.24	0.52
19:As:133:GLU:HG2	19:As:134:ASP:N	2.24	0.52
21:Au:136:LYS:CD	31:AG:78:SER:HA	2.32	0.52
24:Ax:68:ARG:NH2	43:1:190:G:O6	2.43	0.52
33:AI:137:ASP:N	33:AI:137:ASP:OD1	2.41	0.52
39:AO:113:PHE:CE1	39:AO:129:LEU:HD11	2.44	0.52
43:1:75:C:C2	43:1:105:A:N1	2.78	0.52
43:1:251:G:C4	43:1:252:G:C8	2.98	0.52
43:1:693:C:H3'	43:1:694:G:H5'	1.91	0.52
43:1:811:U:H2'	43:1:813:A:H62	1.75	0.52
43:1:2087:G:H2'	43:1:2088:C:H6	1.74	0.52
43:1:2154:C:H2'	43:1:2210:A:H61	1.74	0.52
43:1:2265:G:N1	43:1:2297:C:OP1	2.36	0.52
43:1:2338:G:H2'	43:1:2339:U:C6	2.44	0.52
43:1:2376:C:C2	43:1:2377:C:C5	2.98	0.52
43:1:2385:U:C2	43:1:2734:G:N2	2.78	0.52
43:1:2834:G:C6	43:1:2835:U:C4	2.97	0.52
51:Br:161:ARG:HG3	85:2:1570:G:O3'	2.09	0.52
61:Bc:339:ILE:HB	61:Bc:341:HIS:NE2	2.24	0.52
85:2:165:A:H2'	85:2:166:G:C8	2.44	0.52
85:2:220:C:H2'	85:2:221:U:C6	2.44	0.52
85:2:305:U:H2'	85:2:306:U:C6	2.45	0.52
85:2:363:A:O2'	85:2:364:C:H5'	2.09	0.52
85:2:770:G:C6	85:2:771:G:N7	2.78	0.52
85:2:1053:G:C6	85:2:1547:A:C6	2.97	0.52
85:2:1206:G:O2'	85:2:1207:C:C5'	2.57	0.52
88:BK:50:ALA:HB1	88:BK:53:ALA:HB3	1.92	0.52
3:Ac:237:ALA:HB2	43:1:2918:C:O2'	2.09	0.52
10:Aj:41:VAL:HG13	10:Aj:44:ARG:HB2	1.92	0.52
14:An:99:ILE:HG13	14:An:100:ARG:N	2.18	0.52
18:Ar:147:GLY:O	18:Ar:148:SER:OG	2.24	0.52
18:Ar:187:THR:O	86:Az:95:VAL:HA	2.08	0.52
21:Au:134:GLY:H	21:Au:135:PRO:HD2	1.74	0.52
33:AI:103:LEU:HD21	33:AI:210:TRP:CD2	2.44	0.52
33:AI:108:ASP:OD1	33:AI:108:ASP:N	2.41	0.52
33:AI:220:PHE:HE1	33:AI:223:GLN:HB2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AK:40:GLU:N	35:AK:44:TRP:HB3	2.24	0.52
41:AQ:321:ASN:ND2	41:AQ:323:GLU:OE2	2.42	0.52
43:1:24:U:O2	43:1:661:G:O6	2.27	0.52
43:1:310:A:C2	43:1:487:G:N1	2.78	0.52
43:1:313:U:O2'	43:1:314:U:N3	2.40	0.52
43:1:688:U:O2'	43:1:689:C:H2'	2.10	0.52
43:1:970:U:H5''	43:1:2726:G:O3'	2.09	0.52
43:1:1644:C:O2'	43:1:1645:U:H3'	2.10	0.52
43:1:2045:C:H42	43:1:2065:A:N6	2.08	0.52
43:1:2737:A:O2'	43:1:2898:A:OP1	2.18	0.52
61:Bc:259:SER:OG	76:BD:148:ARG:NH1	2.43	0.52
62:Bd:305:LYS:HZ3	62:Bd:347:GLU:C	2.18	0.52
67:Bo:91:MET:HB3	75:BC:99:ARG:HH12	1.75	0.52
72:Bv:78:ARG:NH1	85:2:202:A:OP1	2.42	0.52
72:Bv:90:MET:O	72:Bv:94:GLU:HG2	2.09	0.52
85:2:66:C:O2'	85:2:406:G:N7	2.26	0.52
85:2:280:U:H2'	85:2:282:A:OP2	2.10	0.52
85:2:671:A:H2'	85:2:672:U:C6	2.45	0.52
85:2:692:U:H3'	85:2:693:C:H6	1.73	0.52
85:2:832:G:C2	85:2:833:G:C8	2.97	0.52
85:2:970:A:H8	85:2:1573:C:N3	2.07	0.52
85:2:1130:C:H3'	85:2:1131:G:H8	1.75	0.52
85:2:1185:C:O2'	85:2:1186:A:C8	2.63	0.52
3:Ac:224:ARG:NE	43:1:2343:G:H1'	2.24	0.52
10:Aj:123:TRP:NE1	10:Aj:132:ARG:HH21	2.08	0.52
26:AA:64:GLU:H	26:AA:64:GLU:CD	2.18	0.52
28:AC:18:ALA:HB3	28:AC:50:VAL:HG11	1.92	0.52
33:AI:35:ARG:HB3	33:AI:111:LEU:HB2	1.92	0.52
40:AP:681:ALA:HA	40:AP:684:ALA:HB3	1.92	0.52
41:AQ:231:GLU:HA	41:AQ:234:VAL:HG12	1.92	0.52
43:1:608:G:C2	43:1:609:G:C8	2.97	0.52
43:1:743:G:N3	43:1:744:G:C8	2.78	0.52
43:1:890:U:O4'	43:1:892:G:N2	2.41	0.52
43:1:1214:U:H2'	43:1:1215:U:O4'	2.10	0.52
43:1:2108:A:C8	43:1:2109:G:C8	2.97	0.52
43:1:2644:A:H4'	43:1:2645:C:OP2	2.09	0.52
43:1:2674:A:H2'	43:1:2675:A:O4'	2.09	0.52
43:1:2786:U:O4	43:1:2787:C:N4	2.42	0.52
43:1:2979:C:H2'	43:1:2980:A:C8	2.45	0.52
48:Bi:126:LYS:HG3	48:Bi:129:LYS:HD3	1.92	0.52
52:Bw:250:GLY:HA2	52:Bw:265:LEU:HD22	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:Bw:318:LEU:H	52:Bw:318:LEU:HD12	1.75	0.52
52:Bw:328:SER:HB2	52:Bw:330:HIS:CE1	2.45	0.52
74:BB:115:LYS:H	74:BB:115:LYS:HD3	1.74	0.52
85:2:928:A:H1'	85:2:1733:C:O2	2.09	0.52
85:2:1496:A:H3'	85:2:1497:C:C6	2.44	0.52
85:2:1531:G:H4'	85:2:1532:G:H5'	1.92	0.52
89:Bk:61:HIS:CD2	89:Bk:61:HIS:N	2.76	0.52
5:Ad:241:VAL:O	5:Ad:263:ILE:HD12	2.10	0.52
11:Ak:59:ASN:ND2	11:Ak:148:ARG:O	2.43	0.52
20:At:11:HIS:CE1	31:AG:64:VAL:HG21	2.45	0.52
23:Aw:68:VAL:HG23	23:Aw:83:VAL:HG12	1.92	0.52
33:AI:50:PHE:HD1	33:AI:53:PHE:HD2	1.57	0.52
43:1:27:A:H3'	43:1:28:U:C6	2.45	0.52
43:1:556:A:N1	43:1:2707:G:C6	2.78	0.52
43:1:728:G:C8	43:1:2329:G:H5'	2.45	0.52
43:1:735:G:C4	43:1:1407:A:N6	2.77	0.52
43:1:991:C:N4	43:1:992:G:C6	2.78	0.52
43:1:1481:G:C4	43:1:1485:A:N6	2.78	0.52
43:1:2633:A:N7	43:1:2635:G:C5	2.78	0.52
43:1:2875:A:H2'	43:1:2912:A:H62	1.75	0.52
47:Bh:328:PHE:CZ	52:Bw:465:ALA:HB1	2.45	0.52
51:Br:130:LYS:HG3	51:Br:189:GLU:HG2	1.90	0.52
52:Bw:380:HIS:CG	52:Bw:381:ALA:H	2.28	0.52
61:Bc:254:ARG:HG2	61:Bc:258:LYS:NZ	2.25	0.52
79:BJ:345:ALA:O	79:BJ:349:ALA:C	2.52	0.52
85:2:251:G:H2'	85:2:252:C:H6	1.75	0.52
85:2:452:A:C4	85:2:453:G:C8	2.98	0.52
85:2:877:U:O2'	89:Bk:15:LYS:HB2	2.09	0.52
85:2:1385:C:C3'	85:2:1386:G:OP2	2.58	0.52
85:2:1604:G:N1	85:2:1605:G:C5	2.78	0.52
85:2:1772:G:N2	85:2:1873:U:O2	2.38	0.52
88:BK:182:ALA:HB1	88:BK:217:ALA:O	2.10	0.52
2:Ab:91:ALA:HB1	2:Ab:131:ASN:O	2.10	0.52
19:As:105:LYS:HA	19:As:210:VAL:O	2.10	0.52
24:Ax:84:ILE:HG23	24:Ax:85:PHE:CD2	2.45	0.52
33:AI:112:TYR:N	33:AI:211:VAL:HG12	2.25	0.52
36:AL:72:LYS:HE2	43:1:1301:A:OP2	2.09	0.52
39:AO:455:TYR:CE2	39:AO:465:MET:HG2	2.45	0.52
40:AP:158:ALA:HB1	40:AP:161:ALA:HA	1.92	0.52
43:1:861:C:H3'	43:1:862:A:C8	2.44	0.52
43:1:892:G:C8	43:1:894:A:C8	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2182:G:H8	43:1:2182:G:O5'	1.93	0.52
43:1:2280:A:O2'	43:1:2283:G:N3	2.41	0.52
43:1:2386:U:C4	43:1:2540:G:C6	2.98	0.52
43:1:2480:G:N2	43:1:2481:U:O4	2.43	0.52
43:1:2852:U:H2'	43:1:2853:U:C6	2.44	0.52
47:Bh:312:ARG:NH2	47:Bh:373:THR:O	2.43	0.52
48:Bi:219:HIS:CE1	54:Bz:294:GLN:HE22	2.28	0.52
49:Bl:115:TYR:OH	51:Br:203:ARG:NH1	2.42	0.52
51:Br:195:LYS:HB2	85:2:1669:C:C6	2.44	0.52
52:Bw:323:GLN:O	52:Bw:327:LYS:HG2	2.10	0.52
56:Bt:53:LYS:HB3	56:Bt:58:GLY:HA3	1.91	0.52
62:Bd:408:GLN:O	62:Bd:411:TYR:N	2.42	0.52
63:Be:28:LYS:O	63:Be:32:SER:OG	2.24	0.52
65:Bj:195:ILE:HA	65:Bj:259:VAL:O	2.08	0.52
65:Bj:283:THR:O	65:Bj:286:ARG:N	2.43	0.52
71:Bu:56:VAL:HG11	71:Bu:86:GLY:HA2	1.92	0.52
85:2:165:A:H2'	85:2:166:G:O4'	2.10	0.52
85:2:603:G:C2	85:2:626:A:C8	2.97	0.52
85:2:1218:U:O2'	85:2:1219:C:C6	2.57	0.52
85:2:1427:G:N1	85:2:1428:G:C6	2.78	0.52
85:2:1434:G:O2'	85:2:1435:U:OP2	2.23	0.52
85:2:1510:G:C6	85:2:1526:A:C2	2.97	0.52
85:2:1641:U:H2'	85:2:1642:U:H6	1.74	0.52
85:2:1773:U:H2'	85:2:1774:U:C6	2.45	0.52
88:BK:77:ALA:CA	88:BK:92:ALA:HB1	2.36	0.52
5:Ad:209:LYS:HB3	5:Ad:279:THR:HG22	1.92	0.52
6:Ae:24:ASN:ND2	44:3:58:U:O3'	2.42	0.52
14:An:30:ARG:HA	14:An:111:GLU:HB3	1.92	0.52
21:Au:80:GLN:HG2	21:Au:89:PRO:HD2	1.92	0.52
25:Ay:129:PRO:HG2	25:Ay:132:ARG:HB3	1.91	0.52
29:AE:11:CYS:HB3	29:AE:14:CYS:SG	2.50	0.52
35:AK:75:LYS:NZ	35:AK:77:MET:SD	2.83	0.52
37:AM:53:GLU:O	37:AM:57:ILE:HG12	2.10	0.52
39:AO:351:GLN:H	39:AO:351:GLN:CD	2.18	0.52
43:1:78:U:C2	43:1:79:G:C8	2.98	0.52
43:1:227:G:N1	43:1:240:A:OP2	2.35	0.52
43:1:275:A:O2'	43:1:276:A:N3	2.43	0.52
43:1:488:G:N7	43:1:489:U:N3	2.57	0.52
43:1:959:C:C2	43:1:1349:G:N2	2.79	0.52
43:1:1203:A:H2	43:1:1255:G:C6	2.28	0.52
43:1:1325:C:O2'	43:1:1327:G:O6	2.12	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1434:C:H2'	43:1:1435:C:H6	1.75	0.52
43:1:1605:A:O2'	43:1:1606:U:H5''	2.10	0.52
43:1:1877:G:HO2'	43:1:1878:U:C5'	2.22	0.52
43:1:1912:G:N1	43:1:1914:C:H2'	2.25	0.52
43:1:2338:G:H2'	43:1:2339:U:H6	1.75	0.52
43:1:2359:G:C6	43:1:2919:G:N1	2.78	0.52
43:1:2872:G:C5	43:1:2873:U:N3	2.78	0.52
43:1:2914:C:C2	43:1:2915:U:C5	2.98	0.52
44:3:111:C:H2'	44:3:112:C:H6	1.74	0.52
50:Bm:113:LYS:HG2	51:Br:148:LYS:HB3	1.92	0.52
52:Bw:212:ASP:HB2	52:Bw:426:GLN:HE22	1.75	0.52
61:Bc:113:ARG:HD2	61:Bc:119:THR:CG2	2.38	0.52
61:Bc:301:HIS:CD2	61:Bc:303:LEU:HB2	2.45	0.52
72:Bv:79:VAL:O	72:Bv:83:GLU:HG3	2.10	0.52
76:BD:214:GLN:HE21	76:BD:300:TYR:HA	1.75	0.52
85:2:210:G:C6	85:2:222:G:C6	2.98	0.52
85:2:464:G:C4	85:2:488:G:N2	2.78	0.52
85:2:1398:G:HO2'	85:2:1399:G:H8	1.57	0.52
85:2:1452:C:O2'	85:2:1453:C:C6	2.58	0.52
85:2:1789:G:N1	85:2:1858:C:C2	2.77	0.52
85:2:1789:G:N1	85:2:1859:A:N6	2.51	0.52
86:Az:18:SER:HB2	86:Az:75:GLU:HG2	1.91	0.52
2:Ab:76:ASN:OD1	2:Ab:89:ARG:HG2	2.10	0.51
3:Ac:133:LYS:HZ2	43:1:3108:G:H5''	1.75	0.51
13:Am:174:LYS:NZ	22:Av:137:THR:OG1	2.43	0.51
17:Aq:61:HIS:CE1	17:Aq:96:LYS:HB2	2.45	0.51
33:AI:56:ASN:O	33:AI:60:GLN:HG3	2.10	0.51
37:AM:53:GLU:OE1	37:AM:53:GLU:N	2.36	0.51
37:AM:66:LYS:HB2	37:AM:124:VAL:HG21	1.91	0.51
39:AO:178:PRO:HA	39:AO:181:ILE:HB	1.92	0.51
39:AO:274:TYR:CE2	39:AO:305:MET:HE1	2.45	0.51
41:AQ:190:ARG:NH1	43:1:1913:G:H8	2.07	0.51
43:1:720:G:H4'	43:1:1132:A:C2	2.45	0.51
43:1:732:A:C4	43:1:733:G:C8	2.98	0.51
43:1:805:C:H2'	43:1:806:C:H6	1.75	0.51
43:1:1149:A:H2'	43:1:1150:A:C8	2.45	0.51
43:1:1859:C:O2'	43:1:1860:U:H5''	2.09	0.51
43:1:1948:G:C2	43:1:1954:G:C5	2.99	0.51
43:1:2051:U:H4'	43:1:2052:C:OP1	2.09	0.51
43:1:2358:C:H2'	43:1:2359:G:C8	2.45	0.51
43:1:2409:C:H2'	43:1:2410:C:C6	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2438:G:N2	43:1:2457:C:O2'	2.39	0.51
43:1:2528:C:H3'	43:1:2529:A:H8	1.75	0.51
45:Bb:422:LYS:HE3	45:Bb:426:PHE:CZ	2.44	0.51
72:Bv:102:ARG:HG3	72:Bv:103:LEU:N	2.25	0.51
72:Bv:103:LEU:HD12	72:Bv:107:ARG:NH1	2.25	0.51
73:By:93:GLY:O	73:By:116:VAL:HG11	2.10	0.51
76:BD:325:ARG:HD3	76:BD:345:ARG:HG3	1.91	0.51
77:BE:209:GLY:O	77:BE:213:ILE:HG12	2.09	0.51
85:2:26:U:O2	85:2:910:G:N2	2.41	0.51
85:2:356:G:H2'	85:2:357:A:C8	2.45	0.51
85:2:873:C:N4	85:2:874:G:O6	2.43	0.51
85:2:1369:G:C6	85:2:1370:A:C6	2.98	0.51
85:2:1832:A:O3'	85:2:1833:A:H8	1.93	0.51
85:2:1913:G:O2'	85:2:1914:A:H5'	2.10	0.51
3:Ac:114:THR:O	3:Ac:119:GLY:N	2.33	0.51
10:Aj:113:ASP:N	10:Aj:113:ASP:OD1	2.41	0.51
10:Aj:168:ARG:NH2	43:1:1167:C:OP2	2.42	0.51
12:Al:198:THR:HG21	43:1:787:U:H2'	1.91	0.51
16:Ap:174:ARG:NH2	16:Ap:213:ARG:HA	2.25	0.51
27:AB:91:HIS:CE1	27:AB:95:ILE:HD11	2.45	0.51
38:AN:118:ARG:HH21	43:1:1554:G:P	2.32	0.51
39:AO:368:ASN:OD1	39:AO:369:ALA:N	2.43	0.51
39:AO:467:ARG:HH12	41:AQ:238:ALA:C	2.18	0.51
40:AP:160:ALA:HB1	40:AP:193:ALA:HB2	1.92	0.51
43:1:28:U:O2'	43:1:29:G:H5'	2.11	0.51
43:1:216:A:C6	43:1:217:G:C2	2.98	0.51
43:1:270:A:O2'	43:1:271:G:O5'	2.27	0.51
43:1:300:C:O2'	43:1:301:U:O5'	2.26	0.51
43:1:828:A:O2'	43:1:917:U:O4	2.21	0.51
43:1:855:C:H2'	43:1:856:U:O4'	2.10	0.51
43:1:1130:A:H8	43:1:1131:C:C5	2.28	0.51
43:1:1209:U:O4'	43:1:1210:G:H3'	2.10	0.51
43:1:2045:C:N4	43:1:2065:A:H61	2.07	0.51
43:1:2225:C:H5	85:2:1758:C:H4'	1.75	0.51
43:1:2639:G:C5	43:1:2640:C:C4	2.97	0.51
43:1:2787:C:H2'	43:1:2788:G:C8	2.45	0.51
49:Bl:56:GLY:N	85:2:1678:A:H5''	2.24	0.51
52:Bw:264:PRO:HB3	52:Bw:303:TYR:OH	2.10	0.51
52:Bw:363:THR:O	52:Bw:381:ALA:HA	2.11	0.51
53:Bx:28:HIS:ND1	85:2:1624:G:H5''	2.25	0.51
62:Bd:372:THR:O	62:Bd:377:VAL:HB	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:Bn:351:ALA:O	66:Bn:355:VAL:HG23	2.10	0.51
75:BC:49:ILE:HD11	75:BC:53:VAL:HG21	1.93	0.51
76:BD:230:GLU:HG2	76:BD:237:LEU:HD22	1.91	0.51
77:BE:57:ASN:HD21	77:BE:93:GLY:C	2.17	0.51
85:2:253:C:H2'	85:2:254:U:C6	2.45	0.51
85:2:599:A:H2'	85:2:600:A:H8	1.75	0.51
85:2:1401:A:O2'	85:2:1402:U:C6	2.62	0.51
85:2:1588:A:H2	85:2:1591:G:N3	2.08	0.51
85:2:1776:C:H2'	85:2:1777:G:C8	2.43	0.51
88:BK:85:ALA:CB	88:BK:88:ALA:H	2.23	0.51
2:Ab:179:ARG:NH2	43:1:2894:U:O2'	2.43	0.51
13:Am:131:LYS:NZ	43:1:1103:G:H5''	2.25	0.51
20:At:25:LEU:HD23	20:At:28:ILE:HG22	1.90	0.51
21:Au:21:VAL:HG22	21:Au:81:VAL:HG12	1.92	0.51
22:Av:41:ARG:HH12	44:3:79:G:P	2.32	0.51
22:Av:41:ARG:HH22	44:3:79:G:P	2.33	0.51
23:Aw:85:GLN:NE2	23:Aw:88:THR:HA	2.26	0.51
31:AG:25:ILE:HD13	43:1:120:A:N7	2.26	0.51
39:AO:59:GLY:O	39:AO:63:LYS:HG2	2.10	0.51
43:1:58:C:H1'	43:1:72:A:H2'	1.92	0.51
43:1:299:U:O2'	43:1:300:C:H5	1.94	0.51
43:1:492:G:H5'	43:1:495:C:C5	2.44	0.51
43:1:513:G:C2	43:1:514:C:H1'	2.45	0.51
43:1:861:C:H5'	43:1:862:A:OP2	2.10	0.51
43:1:1106:C:OP2	43:1:2757:A:O2'	2.26	0.51
43:1:1180:G:H2'	43:1:1181:A:H8	1.76	0.51
43:1:1352:C:C2	43:1:1353:G:C8	2.98	0.51
43:1:1439:G:N2	43:1:1442:A:OP2	2.42	0.51
43:1:1543:U:H4'	43:1:1544:A:OP1	2.09	0.51
43:1:1869:U:O2'	43:1:1870:C:H6	1.94	0.51
43:1:2051:U:C1'	43:1:2052:C:H5'	2.36	0.51
43:1:2615:U:H2'	43:1:2616:C:O4'	2.10	0.51
43:1:2702:C:N4	43:1:2703:G:C6	2.78	0.51
45:Bb:483:GLU:HA	45:Bb:483:GLU:OE2	2.09	0.51
46:Bf:61:CYS:SG	46:Bf:77:GLY:N	2.83	0.51
47:Bh:345:ARG:HD2	52:Bw:471:GLU:OE2	2.11	0.51
63:Be:63:GLN:OE1	63:Be:63:GLN:N	2.44	0.51
77:BE:136:TYR:HE2	77:BE:138:LYS:HB2	1.75	0.51
85:2:217:A:H3'	85:2:219:C:C5	2.42	0.51
85:2:434:A:N6	85:2:448:G:O6	2.44	0.51
85:2:1526:A:C6	85:2:1527:G:C6	2.98	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Aj:77:LYS:HG3	10:Aj:143:GLU:HB2	1.92	0.51
14:An:99:ILE:O	14:An:100:ARG:HG2	2.10	0.51
33:AI:117:GLY:HA3	33:AI:128:VAL:HG22	1.92	0.51
37:AM:113:GLN:HG3	37:AM:117:SER:O	2.10	0.51
37:AM:123:THR:HG23	37:AM:125:LEU:H	1.76	0.51
38:AN:157:ARG:NH1	43:1:3004:G:OP2	2.43	0.51
39:AO:447:ILE:O	39:AO:450:PRO:HD2	2.10	0.51
40:AP:497:ALA:O	40:AP:501:ALA:HB3	2.09	0.51
43:1:272:A:N1	43:1:300:C:N3	2.59	0.51
43:1:1255:G:C6	43:1:1256:G:C6	2.99	0.51
43:1:1378:G:C6	43:1:1384:A:C6	2.98	0.51
43:1:1876:G:N1	43:1:1877:G:O6	2.44	0.51
43:1:1877:G:C2	43:1:1878:U:C2	2.99	0.51
43:1:2182:G:H1'	43:1:2188:A:H61	1.74	0.51
43:1:2290:C:O2'	43:1:2291:G:H5'	2.10	0.51
43:1:2424:U:O4	43:1:2430:A:H2'	2.10	0.51
43:1:3050:C:O2	43:1:3051:U:N3	2.42	0.51
45:Bb:352:ASN:O	45:Bb:356:ARG:CB	2.57	0.51
46:Bf:85:GLN:HA	46:Bf:88:ALA:HB3	1.90	0.51
50:Bm:132:ARG:NH2	85:2:966:G:O2'	2.44	0.51
51:Br:139:ASP:HB2	51:Br:140:PRO:HD3	1.92	0.51
60:Ba:56:PHE:HB2	71:Bu:33:SER:HB2	1.93	0.51
72:Bv:159:GLU:HA	72:Bv:162:LYS:HE3	1.92	0.51
85:2:630:U:H2'	85:2:631:U:C6	2.46	0.51
85:2:641:A:H2'	85:2:642:U:C6	2.46	0.51
85:2:951:A:O2'	85:2:952:A:O4'	2.27	0.51
85:2:1172:C:O2'	85:2:1173:C:C6	2.55	0.51
85:2:1434:G:N2	85:2:1435:U:N3	2.59	0.51
85:2:1458:C:N3	85:2:1459:A:C4	2.78	0.51
85:2:1705:G:H2'	85:2:1706:A:H8	1.75	0.51
85:2:1788:C:O2'	85:2:1789:G:H2'	2.10	0.51
10:Aj:35:PHE:CZ	10:Aj:52:VAL:HG11	2.45	0.51
14:An:31:ILE:HG13	14:An:110:ILE:HG22	1.92	0.51
18:Ar:163:LYS:HE2	18:Ar:232:GLU:HB3	1.93	0.51
21:Au:57:ILE:HD12	21:Au:64:GLU:HB3	1.92	0.51
25:Ay:122:THR:OG1	25:Ay:140:MET:SD	2.61	0.51
33:AI:225:GLU:OE1	33:AI:225:GLU:N	2.42	0.51
39:AO:414:ARG:HA	39:AO:417:MET:HE2	1.93	0.51
43:1:127:C:C4	43:1:128:C:N4	2.78	0.51
43:1:805:C:H2'	43:1:806:C:C6	2.46	0.51
43:1:885:G:H2'	43:1:886:U:C6	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:999:C:O2	43:1:1070:G:N2	2.42	0.51
43:1:1624:C:O2'	43:1:1625:G:C8	2.63	0.51
43:1:1627:A:O2'	43:1:1628:G:H5'	2.10	0.51
43:1:1915:G:H5'	43:1:1916:A:H2	1.74	0.51
43:1:2169:C:H41	43:1:2200:A:P	2.34	0.51
43:1:2643:G:O2'	43:1:2679:C:O2	2.28	0.51
44:3:31:A:H2'	44:3:32:C:C6	2.45	0.51
44:3:73:C:H2'	44:3:74:C:C6	2.45	0.51
45:Bb:75:LEU:C	45:Bb:442:ILE:HG22	2.36	0.51
46:Bf:113:ALA:O	46:Bf:116:LEU:HG	2.11	0.51
50:Bm:134:ARG:O	50:Bm:135:SER:OG	2.23	0.51
62:Bd:394:GLY:HA3	62:Bd:418:LEU:HD23	1.93	0.51
66:Bn:338:ARG:HH11	66:Bn:357:GLN:NE2	2.09	0.51
68:Bp:25:PHE:CD1	85:2:257:G:H5''	2.45	0.51
76:BD:191:ARG:O	76:BD:195:GLU:HG2	2.11	0.51
85:2:215:A:H2'	85:2:216:A:C8	2.45	0.51
85:2:497:G:H2'	85:2:498:C:H6	1.74	0.51
85:2:540:G:H2'	85:2:541:G:C8	2.45	0.51
85:2:614:A:N6	85:2:615:A:N1	2.59	0.51
85:2:929:C:H1'	85:2:1731:C:H42	1.76	0.51
85:2:1482:A:H3'	85:2:1483:A:H5''	1.92	0.51
4:AD:132:ARG:NE	4:AD:157:LEU:O	2.40	0.51
6:Ae:55:ILE:HD13	26:AA:56:ARG:HD3	1.92	0.51
8:Ag:45:GLU:HB3	8:Ag:63:LYS:HG2	1.91	0.51
9:Ai:116:GLU:O	9:Ai:120:VAL:HG23	2.11	0.51
10:Aj:58:LYS:NZ	10:Aj:69:ASP:OD1	2.41	0.51
10:Aj:128:SER:HA	10:Aj:132:ARG:NH1	2.25	0.51
11:Ak:59:ASN:ND2	11:Ak:148:ARG:HG2	2.26	0.51
14:An:98:ARG:HB3	27:AB:122:PHE:CE2	2.45	0.51
21:Au:16:LEU:HD12	43:1:83:A:H3'	1.92	0.51
30:AF:150:GLU:N	30:AF:150:GLU:CD	2.68	0.51
33:AI:159:HIS:O	33:AI:160:THR:HG23	2.11	0.51
36:AL:57:CYS:HB2	86:Az:17:GLN:NE2	2.26	0.51
43:1:29:G:C5	43:1:30:G:N1	2.78	0.51
43:1:76:C:H2'	43:1:77:A:C8	2.43	0.51
43:1:158:A:C2	43:1:159:C:C2	2.99	0.51
43:1:312:G:H21	43:1:485:A:H62	1.57	0.51
43:1:713:A:N6	43:1:2329:G:C5	2.79	0.51
43:1:716:U:H2'	43:1:717:U:C6	2.45	0.51
43:1:1054:G:O2'	43:1:1055:G:H8	1.94	0.51
43:1:1481:G:C2	43:1:1485:A:C6	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2068:C:H2'	43:1:2069:G:C8	2.46	0.51
43:1:3035:A:H2'	43:1:3036:U:C6	2.45	0.51
44:3:43:U:OP1	44:3:45:C:N4	2.44	0.51
44:3:79:G:N1	44:3:98:G:O6	2.43	0.51
47:Bh:327:LYS:HB3	47:Bh:362:ASP:OD1	2.10	0.51
49:Bl:78:THR:HA	49:Bl:81:GLU:HB2	1.92	0.51
49:Bl:89:VAL:HG22	49:Bl:94:HIS:CD2	2.45	0.51
61:Bc:22:CYS:HA	61:Bc:29:VAL:HG23	1.93	0.51
64:Bg:92:THR:HA	64:Bg:127:PHE:CE2	2.46	0.51
66:Bn:353:VAL:HG12	66:Bn:357:GLN:OE1	2.10	0.51
74:BB:128:LYS:NZ	85:2:1914:A:OP1	2.42	0.51
76:BD:180:TYR:HD2	76:BD:182:LYS:HA	1.75	0.51
85:2:28:U:C4	85:2:29:G:C5	2.98	0.51
85:2:277:A:H2'	85:2:278:G:H8	1.75	0.51
85:2:579:U:OP2	85:2:754:G:N1	2.38	0.51
85:2:971:A:H2'	85:2:972:C:H6	1.75	0.51
85:2:1157:A:OP2	85:2:1417:C:N4	2.43	0.51
85:2:1400:C:HO2'	85:2:1401:A:H8	1.51	0.51
85:2:1880:C:H2'	85:2:1881:U:O4'	2.10	0.51
3:Ac:106:ASP:O	3:Ac:151:LYS:NZ	2.42	0.51
19:As:118:LYS:HZ1	27:AB:93:ARG:HH22	1.59	0.51
22:Av:80:LYS:HG3	22:Av:147:TRP:CD1	2.45	0.51
23:Aw:114:PHE:HE2	43:1:1000:G:HO2'	1.57	0.51
36:AL:51:GLU:OE1	36:AL:55:ARG:NH1	2.43	0.51
36:AL:69:SER:C	36:AL:71:THR:H	2.19	0.51
39:AO:72:TYR:HB3	39:AO:73:PRO:HD3	1.92	0.51
39:AO:260:THR:HG21	39:AO:263:ASP:H	1.76	0.51
39:AO:452:ILE:HG21	39:AO:476:VAL:HG22	1.93	0.51
41:AQ:470:ASP:HA	41:AQ:473:PHE:CZ	2.45	0.51
43:1:130:A:C6	43:1:131:G:C6	2.99	0.51
43:1:429:G:C6	43:1:430:U:C4	2.97	0.51
43:1:872:G:O2'	43:1:874:A:O4'	2.29	0.51
43:1:919:G:C5	43:1:938:G:C8	2.99	0.51
43:1:1415:G:H2'	43:1:1416:A:H8	1.75	0.51
43:1:1999:A:H61	43:1:2307:C:N4	2.09	0.51
43:1:2252:C:O2	43:1:2252:C:H2'	2.11	0.51
46:Bf:63:VAL:HA	46:Bf:75:VAL:O	2.10	0.51
47:Bh:342:LEU:HD13	85:2:1640:A:H4'	1.93	0.51
48:Bi:145:TRP:HB2	48:Bi:208:ARG:HE	1.76	0.51
52:Bw:256:PRO:HG2	52:Bw:258:THR:HG22	1.93	0.51
52:Bw:340:ARG:NE	52:Bw:389:ALA:O	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:Bw:477:PRO:HB2	52:Bw:478:PHE:CD2	2.45	0.51
54:Bz:320:LYS:HE3	85:2:1128:U:H3'	1.93	0.51
84:BL:22:ALA:O	84:BL:24:ALA:N	2.43	0.51
85:2:50:A:N1	85:2:419:C:N4	2.58	0.51
85:2:408:U:H2'	85:2:409:C:C6	2.46	0.51
85:2:1007:A:C2	85:2:1021:G:C2	2.99	0.51
85:2:1142:A:O2'	85:2:1465:G:N1	2.44	0.51
87:Ah:28:ASN:ND2	87:Ah:110:ASN:HB2	2.25	0.51
1:Aa:48:ARG:NH1	1:Aa:85:THR:CG2	2.74	0.51
3:Ac:213:LEU:HD12	3:Ac:216:ARG:HB3	1.92	0.51
5:Ad:179:PRO:HD3	43:1:1404:G:C8	2.46	0.51
5:Ad:239:VAL:HG12	5:Ad:279:THR:OG1	2.11	0.51
18:Ar:224:ARG:NH1	43:1:957:U:OP1	2.41	0.51
24:Ax:45:ARG:NH1	43:1:1521:G:N7	2.57	0.51
29:AE:14:CYS:HA	29:AE:27:CYS:HA	1.92	0.51
39:AO:368:ASN:O	39:AO:371:THR:HB	2.11	0.51
39:AO:448:PHE:O	39:AO:452:ILE:HG13	2.11	0.51
43:1:59:U:N3	43:1:62:C:O2	2.44	0.51
43:1:623:A:OP2	43:1:649:A:N6	2.44	0.51
43:1:761:C:C4	43:1:762:A:N7	2.79	0.51
43:1:815:C:C2	43:1:953:G:C2	2.98	0.51
43:1:2355:C:C2	43:1:2923:G:N2	2.79	0.51
43:1:3005:C:H2'	43:1:3006:C:H6	1.75	0.51
43:1:3035:A:H2'	43:1:3036:U:H6	1.75	0.51
46:Bf:134:GLY:O	46:Bf:138:THR:HG23	2.10	0.51
48:Bi:164:THR:HG21	50:Bm:144:ARG:HH21	1.75	0.51
50:Bm:88:LYS:HD2	50:Bm:120:PHE:HE2	1.75	0.51
57:BG:238:GLY:O	57:BG:242:ASP:CB	2.59	0.51
60:Ba:20:ARG:HA	60:Ba:39:THR:O	2.11	0.51
62:Bd:376:ARG:NH2	85:2:23:G:H4'	2.25	0.51
64:Bg:3:ARG:NE	85:2:586:U:OP1	2.43	0.51
65:Bj:235:THR:O	65:Bj:238:THR:OG1	2.23	0.51
72:Bv:126:GLU:OE1	72:Bv:129:LYS:HE3	2.10	0.51
78:BI:13:ALA:HB1	78:BI:18:ALA:HB3	1.93	0.51
81:BN:62:ALA:O	81:BN:66:ALA:CB	2.57	0.51
85:2:530:A:O2'	85:2:531:A:H5''	2.10	0.51
85:2:623:G:H2'	85:2:624:G:H8	1.74	0.51
85:2:971:A:O2'	85:2:1671:C:O2	2.24	0.51
85:2:1088:C:H2'	85:2:1089:C:C6	2.46	0.51
85:2:1453:C:O2'	85:2:1454:C:H6	1.94	0.51
85:2:1536:G:H2'	85:2:1537:G:H8	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1661:C:N3	85:2:1675:A:N6	2.59	0.51
85:2:1664:U:C4	85:2:1665:G:C6	2.99	0.51
85:2:1766:G:C2	85:2:1878:G:C2	2.99	0.51
85:2:1810:U:H2'	85:2:1811:U:C6	2.46	0.51
85:2:1907:G:N1	85:2:1921:G:C2	2.78	0.51
3:Ac:108:ILE:HG22	3:Ac:151:LYS:HE3	1.93	0.51
18:Ar:185:SER:H	18:Ar:186:GLN:NE2	2.08	0.51
21:Au:158:ASP:OD1	21:Au:158:ASP:N	2.43	0.51
22:Av:178:ARG:HD2	43:1:1018:G:H4'	1.93	0.51
29:AE:5:SER:OG	43:1:2763:C:O3'	2.28	0.51
32:AH:21:GLY:H	43:1:1397:A:H2	1.56	0.51
33:AI:131:PHE:O	33:AI:133:GLU:HG2	2.11	0.51
34:AJ:53:PRO:HB2	34:AJ:54:PRO:HD3	1.93	0.51
35:AK:70:TYR:C	35:AK:72:PRO:HD3	2.35	0.51
40:AP:390:ALA:O	40:AP:393:ALA:N	2.44	0.51
43:1:91:U:C4	43:1:92:C:N4	2.77	0.51
43:1:146:U:H1'	43:1:147:G:H5'	1.93	0.51
43:1:452:C:H2'	43:1:453:A:C8	2.46	0.51
43:1:590:A:C6	43:1:591:G:C6	2.98	0.51
43:1:886:U:H2'	43:1:887:A:H8	1.75	0.51
43:1:1012:U:O4	43:1:1013:C:N4	2.44	0.51
43:1:1109:A:N7	43:1:1111:A:C8	2.79	0.51
43:1:1121:G:OP1	43:1:1123:G:H5'	2.11	0.51
43:1:1191:G:C2	43:1:1192:C:C2	2.99	0.51
43:1:1344:U:H2'	43:1:1345:A:O4'	2.11	0.51
43:1:1869:U:H1'	43:1:1870:C:H5'	1.93	0.51
43:1:2158:U:C4	43:1:2159:G:N7	2.79	0.51
43:1:3117:G:C4	43:1:3118:A:C8	2.99	0.51
48:Bi:156:MET:SD	48:Bi:184:LYS:HA	2.51	0.51
52:Bw:370:PRO:HB2	52:Bw:371:VAL:HG23	1.93	0.51
62:Bd:438:LYS:NZ	85:2:859:A:OP1	2.30	0.51
64:Bg:100:TYR:HB2	64:Bg:128:PHE:CD2	2.44	0.51
72:Bv:119:GLU:O	72:Bv:123:VAL:HG23	2.11	0.51
75:BC:93:LYS:O	75:BC:97:LYS:HG2	2.11	0.51
77:BE:99:CYS:O	77:BE:148:THR:HA	2.11	0.51
85:2:668:G:H2'	85:2:669:G:C8	2.46	0.51
85:2:731:U:C2	85:2:732:C:C5	2.99	0.51
85:2:931:A:H2'	85:2:932:G:O4'	2.11	0.51
85:2:1456:G:C2	85:2:1457:C:C4	2.99	0.51
85:2:1494:G:N2	85:2:1496:A:H62	2.09	0.51
85:2:1786:A:O2'	85:2:1787:U:OP2	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:An:117:ASN:OD1	14:An:117:ASN:N	2.44	0.51
22:Av:134:ASP:OD1	22:Av:136:GLU:HG2	2.10	0.51
35:AK:44:TRP:CD1	43:1:546:A:H62	2.29	0.51
43:1:129:A:N6	43:1:130:A:N6	2.59	0.51
43:1:155:U:O2'	43:1:156:G:H8	1.94	0.51
43:1:228:U:N3	43:1:229:A:C5	2.79	0.51
43:1:444:G:H5'	43:1:465:A:C2	2.46	0.51
43:1:1154:C:H4'	43:1:1161:C:H5''	1.92	0.51
43:1:1365:G:O2'	43:1:1393:A:N1	2.41	0.51
43:1:1583:C:H1'	43:1:1625:G:N2	2.26	0.51
43:1:1924:G:O2'	43:1:1925:G:H8	1.94	0.51
43:1:2417:G:H2'	43:1:2418:A:O4'	2.11	0.51
43:1:2489:U:H2'	43:1:2490:G:H8	1.75	0.51
44:3:15:G:P	44:3:72:G:H22	2.34	0.51
44:3:92:U:H2'	44:3:93:C:C6	2.46	0.51
47:Bh:406:ARG:HH21	85:2:1110:U:P	2.33	0.51
51:Br:134:ARG:O	51:Br:137:TRP:HD1	1.94	0.51
54:Bz:311:ARG:CZ	54:Bz:355:GLU:HG2	2.40	0.51
60:Ba:85:ARG:HE	60:Ba:92:TYR:HB2	1.74	0.51
61:Bc:241:CYS:SG	76:BD:162:MET:HA	2.50	0.51
65:Bj:296:GLU:HG3	70:Bs:28:ARG:HG2	1.93	0.51
67:Bo:40:PHE:CG	67:Bo:76:LEU:HD11	2.45	0.51
73:By:108:GLU:OE1	73:By:108:GLU:N	2.43	0.51
77:BE:43:VAL:HG22	77:BE:72:ARG:NE	2.26	0.51
77:BE:52:ARG:H	77:BE:86:ILE:HD11	1.75	0.51
85:2:288:G:C4	85:2:289:A:C8	2.99	0.51
85:2:628:G:H2'	85:2:629:C:C6	2.45	0.51
85:2:1003:A:H62	85:2:1024:A:H2	1.57	0.51
85:2:1382:C:C2'	85:2:1383:G:OP2	2.50	0.51
85:2:1435:U:O2	85:2:1446:A:H2	1.93	0.51
86:Az:38:LEU:O	86:Az:41:MET:HG2	2.10	0.51
87:Ah:121:TYR:HB3	87:Ah:129:ILE:HD12	1.93	0.51
89:Bk:51:LYS:HD3	89:Bk:72:HIS:ND1	2.26	0.51
5:Ad:176:MET:HB3	43:1:736:A:H5'	1.93	0.50
6:Ae:121:GLU:HG3	6:Ae:173:TRP:HZ3	1.74	0.50
12:Al:200:ARG:HB3	43:1:788:G:N2	2.27	0.50
17:Aq:26:GLU:HG3	43:1:1408:G:H1	1.76	0.50
21:Au:43:ASN:O	21:Au:75:HIS:HD2	1.94	0.50
23:Aw:72:GLY:HA3	43:1:1000:G:H4'	1.94	0.50
39:AO:285:ARG:HA	39:AO:288:ARG:CZ	2.41	0.50
43:1:755:U:O2'	43:1:801:U:H4'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1882:A:H2'	43:1:1883:A:H8	1.76	0.50
43:1:2845:U:H2'	43:1:2846:C:O4'	2.10	0.50
43:1:3042:A:OP2	43:1:3058:G:N1	2.34	0.50
44:3:20:G:H2'	44:3:21:A:C8	2.45	0.50
45:Bb:47:PRO:HD2	53:Bx:69:ARG:HH12	1.75	0.50
45:Bb:75:LEU:O	45:Bb:442:ILE:N	2.44	0.50
52:Bw:385:THR:HA	52:Bw:388:ASN:CG	2.36	0.50
63:Be:50:TYR:HE1	69:Bq:220:GLY:HA2	1.76	0.50
65:Bj:251:LYS:HB3	65:Bj:282:PHE:HD1	1.76	0.50
73:By:71:LYS:HG3	73:By:121:TRP:CZ3	2.46	0.50
76:BD:214:GLN:HG2	76:BD:303:PHE:CG	2.46	0.50
77:BE:329:ASP:O	77:BE:332:LEU:HB3	2.11	0.50
85:2:224:A:H3'	85:2:225:G:H5''	1.93	0.50
85:2:597:G:C5	85:2:634:G:C6	2.99	0.50
85:2:803:C:H2'	85:2:804:A:C8	2.46	0.50
85:2:1110:U:H2'	85:2:1111:C:H6	1.76	0.50
85:2:1167:A:O2'	85:2:1168:G:OP2	2.30	0.50
85:2:1192:A:N1	85:2:1203:U:O2	2.43	0.50
85:2:1748:C:N3	85:2:1898:A:N1	2.59	0.50
85:2:1794:A:C6	85:2:1854:G:C6	2.98	0.50
86:Az:27:LEU:HD11	86:Az:30:THR:HG21	1.90	0.50
1:Aa:9:LEU:HD23	1:Aa:12:PHE:HE2	1.76	0.50
3:Ac:115:VAL:HA	3:Ac:119:GLY:C	2.36	0.50
3:Ac:155:ARG:HE	3:Ac:277:PHE:HE2	1.58	0.50
4:AD:147:LYS:NZ	43:1:2663:G:O6	2.44	0.50
6:Ae:107:VAL:HG13	26:AA:53:LYS:NZ	2.26	0.50
6:Ae:152:ILE:C	6:Ae:153:ARG:HD2	2.36	0.50
7:Af:79:GLU:OE2	7:Af:81:TYR:HB2	2.12	0.50
9:Ai:18:ARG:NE	43:1:1207:G:HO2'	1.91	0.50
11:Ak:170:GLN:OE1	11:Ak:171:HIS:N	2.45	0.50
22:Av:119:THR:O	22:Av:121:VAL:HG13	2.11	0.50
23:Aw:113:ARG:NH2	23:Aw:128:ASP:HB2	2.27	0.50
33:AI:151:LYS:O	33:AI:156:ASP:N	2.45	0.50
34:AJ:68:PHE:HB2	34:AJ:78:ILE:HG12	1.94	0.50
39:AO:107:THR:OG1	39:AO:108:ALA:N	2.45	0.50
39:AO:230:THR:OG1	43:1:1642:C:N4	2.44	0.50
41:AQ:197:PHE:HA	41:AQ:200:LYS:HB3	1.92	0.50
41:AQ:234:VAL:HG11	41:AQ:251:LEU:HD11	1.92	0.50
43:1:239:G:H4'	43:1:515:G:H1'	1.92	0.50
43:1:434:A:O2'	43:1:435:A:H8	1.94	0.50
43:1:1230:U:H2'	43:1:1231:U:C6	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1331:U:C2	43:1:1332:U:C5	3.00	0.50
43:1:1386:G:H2'	43:1:1387:A:H8	1.76	0.50
43:1:1391:G:C2	43:1:1392:G:N2	2.79	0.50
43:1:1590:C:C2	43:1:1619:G:N1	2.80	0.50
43:1:2225:C:C5	85:2:1758:C:H5''	2.46	0.50
43:1:2930:A:H4'	43:1:2932:G:H1'	1.93	0.50
43:1:2996:G:C5	43:1:2997:U:C4	2.99	0.50
51:Br:162:ARG:NH1	85:2:971:A:H1'	2.25	0.50
52:Bw:368:GLU:OE2	52:Bw:379:ILE:HA	2.11	0.50
52:Bw:435:ALA:HA	52:Bw:438:VAL:HG22	1.93	0.50
54:Bz:311:ARG:NE	54:Bz:355:GLU:O	2.45	0.50
61:Bc:39:ARG:O	61:Bc:43:ARG:HG3	2.11	0.50
61:Bc:199:PHE:HD1	61:Bc:202:LEU:HD12	1.75	0.50
75:BC:56:HIS:HE1	75:BC:87:HIS:ND1	2.09	0.50
78:BI:118:ALA:HB3	78:BI:127:ALA:HB2	1.93	0.50
85:2:341:C:N3	85:2:351:G:N2	2.60	0.50
85:2:359:U:H3	85:2:368:G:H1	0.69	0.50
85:2:717:A:C8	85:2:719:A:H1'	2.47	0.50
85:2:732:C:H2'	85:2:733:U:H6	1.74	0.50
85:2:1627:C:H2'	85:2:1628:G:H5''	1.92	0.50
85:2:1812:C:C2	85:2:1813:U:C6	2.99	0.50
85:2:1832:A:H1'	85:2:1833:A:N7	2.26	0.50
87:Ah:44:LEU:HD11	87:Ah:97:PHE:CZ	2.46	0.50
88:BK:118:ALA:C	88:BK:120:ALA:H	2.19	0.50
1:Aa:10:ARG:NH2	43:1:1554:G:H21	2.09	0.50
3:Ac:200:HIS:O	3:Ac:202:PHE:N	2.42	0.50
6:Ae:9:GLU:OE1	30:AF:182:ARG:HD2	2.11	0.50
12:Al:160:LYS:NZ	12:Al:226:LEU:O	2.44	0.50
13:Am:116:LEU:HB2	13:Am:138:ILE:HG22	1.92	0.50
18:Ar:185:SER:O	86:Az:97:SER:HA	2.11	0.50
21:Au:136:LYS:HD3	25:Ay:57:GLY:HA3	1.93	0.50
31:AG:67:ASP:OD1	31:AG:67:ASP:N	2.36	0.50
34:AJ:55:GLN:NE2	34:AJ:69:ASP:HA	2.26	0.50
39:AO:359:LYS:HZ1	43:1:1838:A:P	2.35	0.50
40:AP:588:ALA:H	40:AP:592:ALA:HB2	1.77	0.50
40:AP:670:ALA:N	43:1:495:C:O2'	2.45	0.50
40:AP:672:ALA:N	40:AP:704:ALA:HB1	2.25	0.50
41:AQ:436:MET:HB2	41:AQ:469:VAL:HG11	1.92	0.50
43:1:714:C:O2	43:1:728:G:N2	2.44	0.50
43:1:756:U:C2	43:1:757:A:C8	3.00	0.50
43:1:1129:A:N7	43:1:1130:A:C6	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1155:C:N3	43:1:1156:C:N4	2.59	0.50
43:1:1601:U:O2'	43:1:1602:U:O4'	2.29	0.50
43:1:2114:C:H2'	43:1:2115:U:C6	2.46	0.50
43:1:2534:G:C2	43:1:2535:A:C4	2.99	0.50
43:1:2613:G:H2'	43:1:2614:C:C6	2.46	0.50
43:1:2689:G:H22	43:1:2725:C:H4'	1.76	0.50
44:3:2:A:P	44:3:2:A:H3'	2.51	0.50
46:Bf:86:THR:OG1	85:2:1725:U:OP1	2.28	0.50
47:Bh:328:PHE:HA	47:Bh:363:ILE:O	2.11	0.50
49:Bl:91:GLN:HG3	49:Bl:92:HIS:H	1.76	0.50
51:Br:161:ARG:HD3	51:Br:177:TYR:CB	2.41	0.50
52:Bw:223:LEU:HB3	52:Bw:239:TYR:HE1	1.75	0.50
52:Bw:253:TYR:H	52:Bw:264:PRO:HD2	1.76	0.50
68:Bp:68:HIS:CE1	85:2:254:U:H5''	2.47	0.50
85:2:11:A:N1	85:2:623:G:O2'	2.41	0.50
85:2:11:A:O2'	85:2:609:C:O2'	2.27	0.50
85:2:515:C:H5''	85:2:516:C:C5	2.46	0.50
85:2:554:G:C2	85:2:555:G:C4	3.00	0.50
85:2:629:C:H2'	85:2:630:U:C6	2.45	0.50
85:2:798:U:H2'	85:2:799:A:H8	1.76	0.50
85:2:1440:G:N2	85:2:1441:G:C6	2.77	0.50
85:2:1675:A:H2'	85:2:1676:A:H8	1.75	0.50
85:2:1906:C:C2	85:2:1922:G:N2	2.79	0.50
2:Ab:176:SER:HB3	2:Ab:180:GLY:N	2.14	0.50
12:Al:214:ARG:H	12:Al:251:LYS:HD3	1.75	0.50
13:Am:110:VAL:HG12	13:Am:148:PHE:CD1	2.46	0.50
14:An:98:ARG:HD2	14:An:100:ARG:NH1	2.26	0.50
17:Aq:82:LYS:O	17:Aq:86:GLU:HG2	2.11	0.50
18:Ar:193:ILE:CD1	86:Az:90:LEU:HA	2.38	0.50
19:As:131:ARG:HH22	19:As:223:ARG:NH1	2.10	0.50
21:Au:91:LYS:HD3	21:Au:104:ARG:HG3	1.93	0.50
22:Av:41:ARG:NH1	44:3:79:G:OP1	2.43	0.50
25:Ay:50:GLU:O	25:Ay:50:GLU:HG3	2.10	0.50
32:AH:96:VAL:HG21	43:1:1386:G:H1'	1.93	0.50
39:AO:169:THR:HA	39:AO:174:THR:HB	1.93	0.50
39:AO:211:GLY:HA2	39:AO:214:ARG:HG2	1.94	0.50
39:AO:303:LEU:HD22	39:AO:335:ARG:HB3	1.92	0.50
39:AO:372:TRP:HB3	39:AO:395:ALA:HB2	1.93	0.50
41:AQ:178:LEU:O	41:AQ:182:ILE:HG23	2.12	0.50
43:1:100:C:H2'	43:1:101:A:C8	2.43	0.50
43:1:202:A:H2'	43:1:203:G:O4'	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1296:G:N1	43:1:1297:A:C5	2.78	0.50
43:1:1675:U:HO2'	43:1:1868:G:H22	1.59	0.50
43:1:2027:U:O2'	43:1:2028:U:H2'	2.11	0.50
43:1:2436:G:H2'	43:1:2469:A:H61	1.76	0.50
43:1:2811:A:H2'	43:1:2812:U:C6	2.47	0.50
43:1:3057:G:H3'	43:1:3058:G:H8	1.75	0.50
45:Bb:35:ASP:O	45:Bb:39:ARG:HG2	2.10	0.50
45:Bb:480:LYS:HG3	45:Bb:480:LYS:O	2.11	0.50
52:Bw:239:TYR:HA	52:Bw:354:VAL:HG23	1.92	0.50
52:Bw:428:PRO:O	52:Bw:429:ARG:NE	2.43	0.50
62:Bd:451:THR:OG1	62:Bd:452:GLY:N	2.45	0.50
65:Bj:263:ASN:OD1	65:Bj:263:ASN:N	2.44	0.50
76:BD:188:GLU:OE1	76:BD:191:ARG:NH1	2.44	0.50
85:2:70:U:O2'	85:2:398:C:O2	2.25	0.50
85:2:262:A:C2	85:2:264:U:C2	3.00	0.50
85:2:572:G:O2'	85:2:818:G:H5'	2.11	0.50
85:2:875:C:O2'	85:2:876:C:H5'	2.11	0.50
85:2:918:G:N2	85:2:1741:G:C4	2.80	0.50
85:2:952:A:C5	85:2:1572:G:H4'	2.46	0.50
85:2:1373:U:O2'	85:2:1374:C:C6	2.55	0.50
85:2:1420:U:H1'	85:2:1421:G:C8	2.47	0.50
85:2:1462:A:O2'	85:2:1463:C:H5''	2.11	0.50
85:2:1854:G:N1	85:2:1855:G:C6	2.80	0.50
86:Az:25:ARG:HG2	86:Az:25:ARG:O	2.12	0.50
87:Ah:121:TYR:CE1	87:Ah:126:TYR:CE1	2.81	0.50
89:Bk:79:THR:C	89:Bk:102:LYS:HD3	2.36	0.50
2:Ab:98:LEU:HB2	2:Ab:107:LEU:HD23	1.93	0.50
3:Ac:121:PHE:O	3:Ac:158:PRO:HA	2.11	0.50
9:Ai:51:ASN:CG	9:Ai:55:GLN:HE22	2.20	0.50
10:Aj:62:CYS:HB3	10:Aj:65:ARG:HH11	1.77	0.50
11:Ak:108:ARG:O	11:Ak:126:ASN:HA	2.11	0.50
11:Ak:114:GLY:HA2	11:Ak:119:SER:O	2.12	0.50
11:Ak:148:ARG:HA	11:Ak:168:LEU:HD21	1.93	0.50
12:Al:136:PRO:HG2	43:1:777:U:O2	2.11	0.50
15:Ao:9:PRO:HG2	15:Ao:10:PRO:HD3	1.93	0.50
15:Ao:28:LYS:HG3	15:Ao:29:PHE:CE2	2.46	0.50
27:AB:109:ILE:HG22	43:1:3161[A]:A:H1'	1.94	0.50
28:AC:39:PHE:HE1	43:1:2642:U:C5	2.28	0.50
33:AI:180:PRO:HG2	33:AI:182:LEU:HD13	1.93	0.50
35:AK:53:ARG:HA	35:AK:56:MET:HG2	1.92	0.50
39:AO:249:GLU:O	39:AO:252:LEU:HB3	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:AO:453:ARG:HH21	39:AO:457:ALA:HB3	1.76	0.50
40:AP:532:ALA:HB3	40:AP:535:ALA:HB2	1.93	0.50
43:1:132:C:O2'	43:1:133:U:O5'	2.29	0.50
43:1:463:A:N3	43:1:463:A:H2'	2.27	0.50
43:1:593:G:N2	43:1:599:G:N3	2.59	0.50
43:1:1007:A:H2'	43:1:1008:G:H8	1.77	0.50
43:1:1286:G:C2	43:1:1287:G:C4	3.00	0.50
43:1:1307:G:C2	43:1:1308:C:C2	2.99	0.50
43:1:2019:C:H2'	43:1:2020:C:H6	1.75	0.50
43:1:2622:C:H3'	43:1:2623:G:H5'	1.94	0.50
43:1:2941:C:C2	43:1:3073:A:C4	2.99	0.50
43:1:2970:G:C2	43:1:2971:G:C5	3.00	0.50
43:1:3102:A:H2'	43:1:3103:A:H8	1.77	0.50
52:Bw:357:GLN:HA	52:Bw:404:SER:HB2	1.93	0.50
62:Bd:507:ARG:HH11	76:BD:277:TRP:HE3	1.58	0.50
63:Be:15:ARG:NH2	63:Be:17:GLU:O	2.44	0.50
73:By:99:VAL:H	73:By:107:ALA:CB	2.25	0.50
77:BE:192:LEU:HD23	77:BE:196:LEU:C	2.37	0.50
79:BJ:57:ALA:HB2	79:BJ:83:ALA:HA	1.94	0.50
85:2:399:G:N1	85:2:403:G:C6	2.80	0.50
85:2:1178:G:C6	85:2:1179:A:N6	2.79	0.50
85:2:1427:G:C6	85:2:1428:G:C6	3.00	0.50
85:2:1444:U:O2'	85:2:1445:U:H6	1.95	0.50
85:2:1695:A:H4'	85:2:1696:G:OP1	2.11	0.50
85:2:1775:U:H2'	85:2:1776:C:H6	1.75	0.50
3:Ac:229:LYS:HZ2	3:Ac:231:PHE:HD1	1.59	0.50
12:Al:236:ARG:HD3	35:AK:63:THR:HG23	1.94	0.50
15:Ao:26:THR:HG23	44:3:31:A:OP2	2.10	0.50
16:Ap:195:VAL:O	16:Ap:197:LYS:N	2.45	0.50
39:AO:261:GLN:HE22	39:AO:292:LEU:C	2.18	0.50
39:AO:270:LEU:HB3	39:AO:274:TYR:CE1	2.46	0.50
43:1:81:G:C5	43:1:82:G:C2	3.00	0.50
43:1:725:A:OP2	43:1:2797:C:O2'	2.28	0.50
43:1:992:G:C2	43:1:1080:G:C6	2.98	0.50
43:1:1330:U:HO2'	43:1:1331:U:C5'	2.25	0.50
43:1:2119:A:OP1	43:1:2131:G:N1	2.44	0.50
43:1:2268:G:C4	43:1:2269:C:C5	3.00	0.50
43:1:2368:G:O6	43:1:2910:C:N4	2.44	0.50
43:1:2692:C:H2'	43:1:2693:C:O4'	2.12	0.50
43:1:2753:G:H2'	43:1:2754:C:C6	2.47	0.50
43:1:2947:G:H3'	43:1:2948:C:H5'	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:3:39:C:N4	44:3:51:C:H1'	2.26	0.50
45:Bb:422:LYS:O	45:Bb:425:SER:OG	2.23	0.50
52:Bw:147:GLU:HG3	52:Bw:151:LYS:NZ	2.24	0.50
61:Bc:172:LYS:N	61:Bc:203:LYS:HZ2	2.10	0.50
61:Bc:248:GLU:H	61:Bc:248:GLU:CD	2.20	0.50
77:BE:159:GLY:C	77:BE:162:ARG:HH12	2.19	0.50
78:BI:238:ALA:O	78:BI:242:ALA:HB2	2.11	0.50
79:BJ:235:ALA:HB2	79:BJ:265:ALA:HB1	1.94	0.50
85:2:205:A:C6	85:2:242:G:C6	3.00	0.50
85:2:559:G:C5	89:Bk:13:GLU:O	2.65	0.50
85:2:806:G:C2	85:2:807:C:C6	3.00	0.50
85:2:974:U:H2'	85:2:975:U:C5	2.46	0.50
85:2:993:G:C2	85:2:1034:A:C6	2.99	0.50
85:2:1017:G:H2'	85:2:1018:G:H8	1.77	0.50
85:2:1913:G:C2'	85:2:1914:A:H5'	2.42	0.50
1:Aa:40:LEU:C	1:Aa:41:LEU:HD22	2.37	0.50
3:Ac:224:ARG:O	3:Ac:224:ARG:HD2	2.11	0.50
6:Ae:13:ARG:HG3	6:Ae:28:VAL:HG21	1.94	0.50
18:Ar:209:ASP:HB3	18:Ar:233:LEU:HD13	1.93	0.50
19:As:196:SER:OG	19:As:197:GLY:N	2.43	0.50
25:Ay:58:ARG:O	31:AG:76:TYR:HB2	2.12	0.50
31:AG:74:LYS:HB3	31:AG:75:PRO:CD	2.40	0.50
38:AN:118:ARG:NH1	43:1:1540:G:H5'	2.27	0.50
39:AO:325:TRP:CD1	39:AO:336:ILE:HG21	2.46	0.50
40:AP:200:ALA:HA	40:AP:203:ALA:HB3	1.93	0.50
41:AQ:431:THR:O	41:AQ:435:LEU:HD23	2.12	0.50
43:1:58:C:C2	43:1:73:G:N2	2.80	0.50
43:1:421:C:H42	43:1:482:C:H41	1.58	0.50
43:1:733:G:H2'	43:1:734:C:H6	1.75	0.50
43:1:839:A:H2'	43:1:840:G:H8	1.76	0.50
43:1:882:C:O2	43:1:903:G:N2	2.45	0.50
43:1:1285:A:C2	43:1:1286:G:C4	3.00	0.50
43:1:1911:G:H2'	43:1:1913:G:O5'	2.12	0.50
43:1:2045:C:O2'	43:1:2046:U:H6	1.95	0.50
44:3:1:A:H2'	44:3:1:A:N3	2.26	0.50
45:Bb:448:SER:OG	45:Bb:449:ALA:N	2.45	0.50
48:Bi:170:HIS:O	48:Bi:171:VAL:HB	2.12	0.50
51:Br:177:TYR:O	51:Br:182:HIS:HA	2.12	0.50
54:Bz:384:ASP:O	54:Bz:387:THR:OG1	2.20	0.50
61:Bc:127:ILE:HG23	61:Bc:140:SER:HA	1.93	0.50
72:Bv:128:ARG:NH2	85:2:589:A:H5''	2.22	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:BI:18:ALA:O	78:BI:21:ALA:N	2.45	0.50
78:BI:238:ALA:O	78:BI:242:ALA:CB	2.60	0.50
84:BL:52:ALA:O	84:BL:55:ALA:HB3	2.12	0.50
85:2:352:C:H2'	85:2:353:C:H6	1.75	0.50
85:2:872:C:H5	89:Bk:3:THR:CG2	2.25	0.50
85:2:942:A:C6	85:2:1583:G:C6	3.00	0.50
85:2:999:C:H4'	85:2:1000:A:H5'	1.93	0.50
85:2:1527:G:H3'	85:2:1528:G:C8	2.46	0.50
85:2:1648:A:O2'	85:2:1649:G:H4'	2.11	0.50
85:2:1813:U:H1'	85:2:1814:G:H5'	1.92	0.50
7:Af:19:ARG:HG3	7:Af:28:TYR:HD2	1.77	0.50
10:Aj:49:ILE:HA	10:Aj:52:VAL:HG12	1.94	0.50
15:Ao:77:LEU:HD23	15:Ao:111:VAL:HG21	1.94	0.50
17:Aq:46:MET:SD	17:Aq:49:LEU:HD23	2.52	0.50
17:Aq:93:TYR:N	32:AH:137:GLN:OE1	2.38	0.50
21:Au:44:ARG:NH2	43:1:619:A:H4'	2.27	0.50
22:Av:110:GLN:HE22	22:Av:120:LEU:HD13	1.76	0.50
22:Av:134:ASP:OD1	22:Av:135:GLU:N	2.45	0.50
22:Av:196:LYS:NZ	22:Av:198:GLU:OE2	2.31	0.50
25:Ay:52:LYS:HE2	25:Ay:52:LYS:HA	1.94	0.50
34:AJ:64:VAL:HG22	34:AJ:85:LYS:HD2	1.81	0.50
43:1:250:U:O2'	43:1:569:A:N6	2.45	0.50
43:1:827:G:N2	43:1:938:G:N3	2.60	0.50
43:1:859:A:O4'	43:1:861:C:H6	1.95	0.50
43:1:1055:G:N2	43:1:1056:A:N3	2.60	0.50
43:1:1154:C:C4	43:1:1293:A:N3	2.80	0.50
43:1:1335:A:H2'	43:1:1336:A:C8	2.47	0.50
43:1:1544:A:N1	43:1:1932:G:C2	2.80	0.50
43:1:1648:C:O2'	43:1:1649:C:O5'	2.28	0.50
43:1:1669:G:C6	43:1:1875:A:C6	3.00	0.50
43:1:1677:A:H1'	43:1:1678:A:H5'	1.94	0.50
43:1:1924:G:C2	43:1:1925:G:C4	3.00	0.50
43:1:1998:G:C6	43:1:2303:G:N7	2.80	0.50
43:1:2218:G:C6	43:1:2235:C:N3	2.80	0.50
43:1:2336:C:H2'	43:1:2337:C:C6	2.47	0.50
43:1:2385:U:H2'	43:1:2386:U:C6	2.46	0.50
43:1:2531:U:H2'	43:1:2532:G:H8	1.76	0.50
43:1:3094:U:O2'	43:1:3095:A:OP1	2.24	0.50
45:Bb:475:VAL:HG12	45:Bb:507:HIS:HE1	1.76	0.50
51:Br:208:HIS:HE1	85:2:948:U:O4'	1.95	0.50
52:Bw:340:ARG:HG3	52:Bw:393:MET:HE2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:Bx:54:TRP:HD1	53:Bx:55:TYR:CD1	2.29	0.50
62:Bd:486:LYS:HA	62:Bd:489:LEU:HB2	1.94	0.50
63:Be:23:VAL:HA	63:Be:26:ILE:HD12	1.94	0.50
75:BC:53:VAL:O	75:BC:57:ILE:HG13	2.11	0.50
76:BD:308:GLU:O	76:BD:312:MET:HG3	2.11	0.50
77:BE:278:THR:O	77:BE:282:ILE:HG13	2.12	0.50
85:2:61:A:N6	85:2:378:G:O6	2.44	0.50
85:2:131:G:H22	85:2:151:A:H2	1.60	0.50
85:2:388:G:N2	85:2:411:A:H1'	2.27	0.50
85:2:422:G:C6	85:2:423:U:C4	3.00	0.50
85:2:1440:G:N2	85:2:1441:G:O6	2.44	0.50
85:2:1551:C:H4'	85:2:1552:G:O5'	2.12	0.50
85:2:1777:G:N2	85:2:1868:U:O2	2.35	0.50
88:BK:50:ALA:O	88:BK:54:ALA:N	2.39	0.50
89:Bk:63:ILE:HD12	89:Bk:63:ILE:O	2.11	0.50
1:Aa:9:LEU:HD23	1:Aa:12:PHE:CE2	2.47	0.50
3:Ac:192:GLY:O	3:Ac:194:GLN:N	2.42	0.50
5:Ad:204:ARG:NH2	5:Ad:274:ILE:O	2.45	0.50
6:Ae:30:GLY:O	6:Ae:162:SER:N	2.38	0.50
7:Af:63:GLN:HA	7:Af:66:HIS:CE1	2.47	0.50
10:Aj:33:ARG:HH21	10:Aj:157:PHE:HD2	1.57	0.50
14:An:52:GLY:HA2	14:An:77:PHE:CD1	2.47	0.50
18:Ar:219:ARG:NH2	43:1:713:A:OP2	2.45	0.50
19:As:139:LEU:HD23	19:As:151:TYR:HB2	1.93	0.50
26:AA:51:ILE:HG22	26:AA:52:ALA:H	1.77	0.50
33:AI:171:MET:HB2	33:AI:227:PHE:CE2	2.47	0.50
35:AK:44:TRP:HD1	43:1:546:A:H62	1.59	0.50
39:AO:230:THR:O	39:AO:234:ASN:ND2	2.36	0.50
39:AO:303:LEU:HD13	39:AO:335:ARG:O	2.12	0.50
39:AO:333:ASP:OD1	39:AO:333:ASP:N	2.45	0.50
41:AQ:190:ARG:NH1	43:1:1915:G:OP1	2.45	0.50
43:1:573:A:H2'	43:1:574:U:C6	2.46	0.50
43:1:2050:A:N6	43:1:2061:A:N6	2.59	0.50
43:1:2055:U:O5'	43:1:2055:U:H6	1.95	0.50
43:1:2169:C:N4	43:1:2200:A:OP2	2.40	0.50
43:1:2179:A:H2'	43:1:2180:G:H8	1.77	0.50
43:1:2442:G:O2'	43:1:2444:G:N3	2.44	0.50
43:1:2450:G:H2'	43:1:2451:A:O4'	2.11	0.50
43:1:2462:C:N4	43:1:2467:A:H62	2.09	0.50
43:1:2582:G:C2	43:1:2583:U:C2	3.00	0.50
43:1:2589:A:C6	43:1:2591:G:C5	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:3:27:A:H2'	44:3:28:A:C8	2.47	0.50
48:Bi:169:PRO:HG3	50:Bm:145:ILE:HD11	1.93	0.50
49:Bl:69:ILE:HG21	49:Bl:77:LEU:HD11	1.93	0.50
50:Bm:142:VAL:HB	50:Bm:146:VAL:HG23	1.93	0.50
51:Br:197:GLY:C	85:2:1669:C:O2	2.55	0.50
54:Bz:383:GLU:O	54:Bz:387:THR:HG23	2.11	0.50
56:Bt:76:ILE:HA	56:Bt:79:ILE:HG22	1.93	0.50
57:BG:262:ALA:O	57:BG:266:LEU:CB	2.60	0.50
60:Ba:23:ALA:HB1	60:Ba:25:HIS:CD2	2.47	0.50
62:Bd:485:VAL:O	62:Bd:486:LYS:HB3	2.11	0.50
71:Bu:19:LEU:HD11	81:BN:66:ALA:HA	1.93	0.50
72:Bv:124:ARG:O	72:Bv:128:ARG:HG3	2.12	0.50
85:2:221:U:H2'	85:2:222:G:C8	2.47	0.50
85:2:424:G:N7	85:2:492:A:O2'	2.42	0.50
85:2:676:G:C6	85:2:705:G:C6	2.99	0.50
85:2:992:U:H2'	85:2:993:G:C8	2.47	0.50
85:2:1059:A:N6	85:2:1101:A:H5'	2.16	0.50
85:2:1434:G:C2	85:2:1435:U:C4	3.00	0.50
85:2:1848:C:H2'	85:2:1849:U:C6	2.46	0.50
85:2:1881:U:H2'	85:2:1882:G:H8	1.77	0.50
1:Aa:99:THR:HA	2:Ab:63:MET:HG2	1.94	0.49
9:Ai:19:LEU:CD2	43:1:1210:G:OP1	2.60	0.49
9:Ai:106:VAL:N	9:Ai:147:GLY:O	2.28	0.49
12:Al:95:ARG:NH1	43:1:737:G:H22	2.09	0.49
15:Ao:8:ARG:N	15:Ao:9:PRO:HD2	2.27	0.49
15:Ao:96:HIS:NE2	44:3:39:C:O2	2.45	0.49
19:As:131:ARG:HB3	19:As:133:GLU:CD	2.37	0.49
39:AO:285:ARG:HG3	39:AO:286:ILE:N	2.26	0.49
43:1:43:U:C2	43:1:44:G:C8	3.00	0.49
43:1:274:G:O2'	43:1:275:A:O5'	2.29	0.49
43:1:731:C:C2	43:1:732:A:N7	2.80	0.49
43:1:2593:U:H2'	43:1:2594:A:H8	1.77	0.49
43:1:2651:G:C5	43:1:2663:G:N2	2.80	0.49
43:1:2940:G:N2	43:1:3070:U:H2'	2.27	0.49
43:1:2973:U:H2'	43:1:2974:U:C6	2.46	0.49
43:1:3121:U:O2	43:1:3143:G:N2	2.34	0.49
43:1:3125:A:C6	43:1:3126:G:C5	3.00	0.49
45:Bb:14:LYS:NZ	85:2:1105:C:H4'	2.27	0.49
48:Bi:220:CYS:HB3	54:Bz:293:TRP:HB2	1.93	0.49
54:Bz:344:LYS:HB2	85:2:1491:G:O2'	2.12	0.49
61:Bc:126:LEU:HB2	61:Bc:130:ARG:HH21	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:Bj:266:THR:OG1	65:Bj:267:HIS:N	2.45	0.49
66:Bn:358:LEU:HD13	66:Bn:387:ARG:HB2	1.94	0.49
66:Bn:405:VAL:HG13	66:Bn:409:LEU:HD12	1.94	0.49
67:Bo:37:LEU:HD23	67:Bo:55:LYS:HZ2	1.76	0.49
76:BD:283:ASP:OD1	76:BD:284:MET:N	2.45	0.49
85:2:6:A:O2'	85:2:7:G:H8	1.93	0.49
85:2:84:C:H2'	85:2:85:G:C8	2.47	0.49
85:2:382:A:H2'	85:2:383:A:C8	2.46	0.49
85:2:534:G:P	89:Bk:110:ARG:HH12	2.28	0.49
85:2:771:G:C4	85:2:772:G:C8	3.00	0.49
85:2:940:G:H2'	85:2:941:C:H6	1.75	0.49
85:2:1181:G:O2'	85:2:1182:U:C5'	2.59	0.49
85:2:1619:A:O2'	85:2:1674:G:O2'	2.30	0.49
85:2:1793:C:O2'	85:2:1794:A:O5'	2.28	0.49
6:Ae:41:PRO:HD2	6:Ae:45:ILE:HD13	1.94	0.49
7:Af:5:PHE:N	34:Aj:48:ARG:HH21	2.10	0.49
7:Af:51:LYS:NZ	7:Af:52:ASN:OD1	2.29	0.49
9:Ai:17:ILE:HD11	9:Ai:36:LEU:HD21	1.94	0.49
9:Ai:107:THR:OG1	9:Ai:108:THR:N	2.44	0.49
9:Ai:126:PHE:CD1	9:Ai:126:PHE:C	2.91	0.49
16:Ap:110:LYS:HB3	16:Ap:114:GLN:HE22	1.77	0.49
22:Av:39:ILE:HG13	22:Av:40:PRO:HD2	1.94	0.49
39:AO:263:ASP:O	39:AO:267:TYR:HE2	1.95	0.49
39:AO:413:VAL:HA	39:AO:416:LEU:HD12	1.94	0.49
43:1:51:A:C4	43:1:164:A:N7	2.79	0.49
43:1:430:U:C4	43:1:431:G:C5	2.99	0.49
43:1:492:G:H5''	43:1:495:C:H41	1.78	0.49
43:1:853:A:C6	43:1:854:G:C6	2.99	0.49
43:1:1148:U:C4	43:1:1305:A:N7	2.79	0.49
43:1:1191:G:C6	43:1:1192:C:C4	3.00	0.49
43:1:1549:A:N6	43:1:1901:C:H42	2.10	0.49
43:1:1836:C:O2'	43:1:1837:G:H5''	2.11	0.49
43:1:2222:U:H2'	43:1:2229:A:N1	2.26	0.49
43:1:2387:C:H5''	43:1:2540:G:H22	1.76	0.49
43:1:2389:C:H2'	43:1:2390:U:C6	2.47	0.49
43:1:2756:G:H21	43:1:2757:A:N6	2.10	0.49
43:1:2817:U:N3	43:1:2839:A:N1	2.60	0.49
47:Bh:356:LYS:NZ	47:Bh:361:TRP:HB2	2.26	0.49
53:Bx:36:ARG:HA	85:2:1622:C:C5'	2.39	0.49
54:Bz:318:THR:HG22	54:Bz:320:LYS:H	1.77	0.49
59:BF:84:ALA:HB3	59:BF:87:ALA:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:Bc:238:GLU:OE2	61:Bc:239:LYS:NZ	2.41	0.49
64:Bg:9:ALA:HB2	64:Bg:33:MET:HE2	1.93	0.49
65:Bj:203:ASN:O	65:Bj:233:LYS:HB3	2.11	0.49
75:BC:45:PHE:HA	75:BC:105:PRO:HG3	1.94	0.49
77:BE:156:SER:OG	77:BE:157:LEU:HD12	2.12	0.49
85:2:733:U:H2'	85:2:734:C:C6	2.47	0.49
85:2:770:G:C6	85:2:804:A:C6	3.00	0.49
85:2:1128:U:H3	85:2:1489:G:H22	1.60	0.49
85:2:1190:C:C4	85:2:1204:A:C2	2.95	0.49
85:2:1383:G:O2'	85:2:1384:G:C4'	2.60	0.49
85:2:1496:A:H3'	85:2:1497:C:H6	1.77	0.49
85:2:1853:U:HO2'	85:2:1854:G:H8	1.59	0.49
85:2:1875:U:H2'	85:2:1876:U:H6	1.77	0.49
3:Ac:255:ILE:HG22	3:Ac:262:MET:HB3	1.95	0.49
9:Ai:63:MET:HG2	9:Ai:82:PRO:HG3	1.94	0.49
10:Aj:133:ASP:N	10:Aj:133:ASP:OD1	2.43	0.49
18:Ar:122:LYS:HA	18:Ar:175:LEU:HA	1.93	0.49
33:Al:116:PHE:HA	33:Al:129:TRP:HA	1.94	0.49
38:AN:178:LEU:O	38:AN:181:GLU:HG3	2.12	0.49
39:AO:467:ARG:HH11	41:AQ:242:PHE:N	2.10	0.49
40:AP:508:ALA:HA	40:AP:511:ALA:HB3	1.95	0.49
40:AP:604:ALA:CB	43:1:269:A:H5''	2.42	0.49
41:AQ:146:VAL:O	41:AQ:150:VAL:HG22	2.12	0.49
41:AQ:393:ASN:OD1	41:AQ:394:LYS:N	2.45	0.49
41:AQ:443:ASN:ND2	41:AQ:446:THR:HA	2.27	0.49
43:1:430:U:O4	43:1:474:G:O6	2.30	0.49
43:1:513:G:N2	43:1:525:U:O2'	2.45	0.49
43:1:726:U:O2'	43:1:2800:G:C6	2.65	0.49
43:1:989:G:N7	43:1:1081:U:N3	2.61	0.49
43:1:992:G:H2'	43:1:993:A:C8	2.47	0.49
43:1:1390:U:H2'	43:1:1391:G:C8	2.47	0.49
43:1:1429:U:C2	43:1:3014:G:C2	3.00	0.49
43:1:1559:A:H2'	43:1:1560:G:N3	2.27	0.49
43:1:2393:A:C5	43:1:2541:G:C2	3.00	0.49
43:1:2523:C:H2'	43:1:2524:G:H8	1.77	0.49
43:1:2914:C:H2'	43:1:2915:U:H6	1.78	0.49
46:Bf:11:LEU:HD12	46:Bf:12:ILE:HG23	1.94	0.49
46:Bf:82:ASP:OD1	46:Bf:83:ARG:N	2.37	0.49
52:Bw:320:ASP:OD1	52:Bw:320:ASP:N	2.45	0.49
54:Bz:403:LYS:HA	54:Bz:406:ALA:HB3	1.94	0.49
64:Bg:10:LEU:O	64:Bg:14:VAL:HG23	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:Bg:15:ASN:HD21	85:2:868:C:H1'	1.77	0.49
72:Bv:51:GLY:HA2	72:Bv:53:TRP:CZ3	2.46	0.49
85:2:521:G:H8	85:2:521:G:OP1	1.95	0.49
85:2:642:U:H2'	85:2:643:U:C6	2.40	0.49
85:2:1004:C:H2'	85:2:1005:C:C6	2.47	0.49
85:2:1402:U:C3'	85:2:1403:U:C5'	2.89	0.49
85:2:1457:C:C2	85:2:1458:C:C5	3.00	0.49
85:2:1791:A:H4'	85:2:1792:A:OP1	2.12	0.49
85:2:1860:U:O2'	85:2:1861:A:OP1	2.30	0.49
86:Az:20:TYR:CD1	86:Az:51:LEU:HA	2.48	0.49
2:Ab:159:MET:HE2	43:1:926:A:C6	2.48	0.49
2:Ab:181:ARG:O	2:Ab:182:THR:OG1	2.30	0.49
3:Ac:133:LYS:NZ	43:1:3108:G:H5''	2.26	0.49
7:Af:5:PHE:CE2	7:Af:62:LYS:HB2	2.47	0.49
7:Af:67:GLN:NE2	43:1:3047:C:H1'	2.25	0.49
9:Ai:35:ALA:HB2	43:1:1219:A:N1	2.27	0.49
13:Am:48:ARG:HG3	43:1:1057:A:C6	2.47	0.49
13:Am:107:LYS:HE2	22:Av:178:ARG:CZ	2.39	0.49
13:Am:114:ALA:HA	13:Am:139:ALA:HB2	1.94	0.49
14:An:6:LYS:O	14:An:14:ARG:NH2	2.37	0.49
15:Ao:26:THR:HG23	44:3:31:A:P	2.52	0.49
16:Ap:144:GLU:HG2	16:Ap:150:ARG:O	2.13	0.49
22:Av:212:LEU:HB2	22:Av:228:GLU:HA	1.94	0.49
33:Al:62:ARG:HG3	33:Al:62:ARG:O	2.13	0.49
35:AK:119:LYS:O	35:AK:123:GLU:HG3	2.12	0.49
40:AP:721:ALA:HA	40:AP:724:ALA:HB3	1.93	0.49
41:AQ:191:PRO:HB2	41:AQ:229:ILE:HG13	1.94	0.49
41:AQ:215:THR:HG22	41:AQ:247:ILE:HG13	1.93	0.49
42:AR:19:ALA:HA	42:AR:22:ALA:HB3	1.94	0.49
43:1:140:C:H6	43:1:140:C:OP2	1.96	0.49
43:1:605:U:OP1	43:1:605:U:H6	1.95	0.49
43:1:743:G:C4	43:1:744:G:C8	3.00	0.49
43:1:760:C:H2'	43:1:761:C:H6	1.73	0.49
43:1:1028:G:H21	43:1:1040:C:N4	2.09	0.49
43:1:1358:G:C5	43:1:1359:U:C4	3.00	0.49
43:1:1466:G:O2'	43:1:1946:C:O2'	2.21	0.49
43:1:1571:U:O2'	43:1:1574:A:OP2	2.27	0.49
43:1:1870:C:H1'	43:1:1871:A:N7	2.28	0.49
43:1:2407:A:C2	43:1:2490:G:C2	3.01	0.49
43:1:2531:U:H2'	43:1:2532:G:C8	2.47	0.49
43:1:2534:G:C4	43:1:2535:A:C8	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2622:C:H3'	43:1:2623:G:C5'	2.41	0.49
43:1:2770:G:N2	43:1:2777:U:O4	2.45	0.49
43:1:3115:G:C6	43:1:3151:G:C6	3.01	0.49
46:Bf:39:PRO:HB3	46:Bf:112:PHE:HE1	1.77	0.49
46:Bf:59:PRO:HG3	46:Bf:87:LEU:HD11	1.95	0.49
47:Bh:319:VAL:HG12	47:Bh:365:CYS:HB3	1.93	0.49
48:Bi:133:ALA:HA	48:Bi:186:ARG:O	2.12	0.49
50:Bm:108:ARG:O	50:Bm:112:SER:HB3	2.12	0.49
50:Bm:112:SER:O	50:Bm:112:SER:OG	2.29	0.49
51:Br:203:ARG:NH2	85:2:1574:C:O2'	2.45	0.49
52:Bw:238:LEU:HD22	52:Bw:353:ILE:HG23	1.93	0.49
61:Bc:120:ILE:HD11	85:2:426:G:OP1	2.12	0.49
62:Bd:346:THR:OG1	62:Bd:350:ARG:NH1	2.46	0.49
62:Bd:498:PRO:HG3	76:BD:270:PHE:CE1	2.47	0.49
65:Bj:235:THR:HB	65:Bj:238:THR:HG23	1.94	0.49
66:Bn:401:SER:O	66:Bn:405:VAL:HG23	2.13	0.49
68:Bp:28:LYS:H	68:Bp:28:LYS:HD3	1.78	0.49
76:BD:153:PHE:O	76:BD:157:ILE:HG12	2.12	0.49
79:BJ:11:ALA:O	79:BJ:15:ALA:CB	2.50	0.49
85:2:385:C:H1'	85:2:412:G:H22	1.77	0.49
85:2:517:A:H2	85:2:530:A:H61	1.58	0.49
85:2:670:A:C4	85:2:671:A:C8	3.00	0.49
85:2:841:A:H2'	85:2:842:G:H8	1.78	0.49
85:2:1435:U:C4	85:2:1436:A:N6	2.80	0.49
85:2:1436:A:O2'	85:2:1437:A:P	2.71	0.49
85:2:1656:U:C5	85:2:1657:U:C4	3.01	0.49
85:2:1796:U:H2'	85:2:1797:G:C8	2.47	0.49
85:2:1836:G:C5	85:2:1837:C:C4	3.01	0.49
87:Ah:68:LYS:HD2	87:Ah:118:GLU:HB2	1.94	0.49
2:Ab:111:PRO:C	2:Ab:113:GLY:H	2.20	0.49
5:Ad:126:TRP:CH2	5:Ad:193:ARG:HD3	2.47	0.49
5:Ad:131:ARG:NH2	5:Ad:272:TYR:HD2	2.10	0.49
5:Ad:197:LEU:HD11	5:Ad:269:LEU:HD23	1.95	0.49
12:Al:181:ARG:NH1	43:1:789:G:C2	2.81	0.49
12:Al:214:ARG:HB2	12:Al:251:LYS:HB3	1.93	0.49
29:AE:7:VAL:HG12	29:AE:35:GLN:HB3	1.94	0.49
29:AE:16:THR:HG22	29:AE:25:VAL:HG22	1.95	0.49
33:AI:143:ARG:CZ	33:AI:162:PHE:HB2	2.43	0.49
41:AQ:393:ASN:HB2	41:AQ:396:GLU:HG2	1.94	0.49
43:1:43:U:C2	43:1:581:A:H2	2.30	0.49
43:1:809:U:H2'	43:1:810:U:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:997:C:C4	43:1:998:C:N4	2.80	0.49
43:1:1256:G:OP1	87:Ah:56:LYS:CG	2.40	0.49
43:1:1577:A:O2'	43:1:1578:C:OP2	2.31	0.49
43:1:2119:A:H2'	43:1:2120:A:H8	1.75	0.49
43:1:2173:A:C6	43:1:2198:G:C2	3.01	0.49
43:1:2438:G:HO2'	43:1:2439:G:C5'	2.24	0.49
43:1:2584:G:N2	43:1:2688:U:O2	2.43	0.49
43:1:2990:G:N2	43:1:3024:G:O6	2.44	0.49
44:3:84:G:H2'	44:3:85:A:C8	2.47	0.49
61:Bc:199:PHE:CD1	61:Bc:202:LEU:HD12	2.47	0.49
61:Bc:202:LEU:HD13	84:BL:55:ALA:HB2	1.94	0.49
64:Bg:4:ARG:NH2	85:2:584:G:C4'	2.76	0.49
85:2:352:C:H2'	85:2:353:C:C6	2.48	0.49
85:2:449:U:H1'	85:2:450:A:H5''	1.94	0.49
85:2:920:G:N2	85:2:1927:A:O2'	2.45	0.49
85:2:942:A:C5	85:2:943:U:C4	3.00	0.49
85:2:1174:G:HO2'	85:2:1175:A:P	2.35	0.49
85:2:1371:C:O2'	85:2:1372:G:P	2.71	0.49
85:2:1402:U:O2'	85:2:1403:U:H2'	2.12	0.49
85:2:1458:C:C2	85:2:1459:A:C5	3.01	0.49
85:2:1535:G:H2'	85:2:1536:G:C8	2.47	0.49
85:2:1814:G:C2	85:2:1815:U:C2	3.00	0.49
88:BK:182:ALA:HB1	88:BK:217:ALA:CA	2.42	0.49
9:Ai:86:TRP:HA	9:Ai:89:LYS:HG2	1.93	0.49
16:Ap:142:LYS:NZ	16:Ap:194:ARG:HD2	2.26	0.49
20:At:22:PRO:O	20:At:24:LYS:N	2.40	0.49
27:AB:121:HIS:C	27:AB:122:PHE:HD1	2.21	0.49
28:AC:12:ILE:HA	28:AC:57:MET:HA	1.95	0.49
28:AC:27:ARG:HH11	43:1:2644:A:N6	2.09	0.49
28:AC:41:LYS:HB2	28:AC:52:PHE:CD2	2.47	0.49
33:AI:59:GLN:O	33:AI:63:ARG:HB3	2.12	0.49
33:AI:114:LEU:HD22	33:AI:219:PHE:CB	2.43	0.49
36:AL:32:LEU:HA	36:AL:36:ARG:NH2	2.28	0.49
39:AO:168:TYR:O	39:AO:171:THR:HG22	2.13	0.49
39:AO:190:MET:HG3	39:AO:224:ARG:HB3	1.94	0.49
39:AO:411:GLU:HB3	39:AO:414:ARG:NH2	2.28	0.49
39:AO:455:TYR:HA	39:AO:458:ALA:HB3	1.93	0.49
43:1:141:U:H5'	43:1:142:A:C8	2.48	0.49
43:1:165:A:O2'	43:1:166:A:N7	2.45	0.49
43:1:436:G:C2	43:1:437:G:C5	3.00	0.49
43:1:695:C:O2'	43:1:696:A:H8	1.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:823:G:C6	43:1:942:G:N1	2.81	0.49
43:1:828:A:C8	43:1:917:U:C5	3.00	0.49
43:1:943:G:C6	43:1:944:A:C6	3.01	0.49
43:1:953:G:O6	43:1:954:U:O4	2.30	0.49
43:1:1099:U:O2'	43:1:1100:G:O5'	2.31	0.49
43:1:1100:G:N7	43:1:1115:A:C6	2.80	0.49
43:1:1212:G:C2	43:1:1225:C:C2	3.00	0.49
43:1:1562:U:C4	43:1:1882:A:N1	2.80	0.49
43:1:1590:C:N3	43:1:1619:G:N1	2.50	0.49
43:1:1649:C:H4'	43:1:1650:U:H3'	1.94	0.49
43:1:1855:G:O2'	43:1:1856:A:O5'	2.30	0.49
43:1:2993:C:H1'	43:1:3146:A:N3	2.27	0.49
47:Bh:358:LEU:HD23	52:Bw:463:TYR:HD1	1.78	0.49
52:Bw:187:PHE:CZ	52:Bw:206:GLN:HB3	2.47	0.49
54:Bz:397:ASN:ND2	85:2:1475:A:O4'	2.45	0.49
65:Bj:253:MET:N	65:Bj:253:MET:SD	2.85	0.49
85:2:60:C:H2'	85:2:61:A:C8	2.47	0.49
85:2:83:U:H4'	85:2:84:C:OP1	2.12	0.49
85:2:428:G:C2'	85:2:452:A:H61	2.26	0.49
85:2:1210:A:O2'	85:2:1211:C:C6	2.57	0.49
85:2:1571:G:C2	85:2:1572:G:C8	3.00	0.49
85:2:1704:G:C6	85:2:1717:G:C6	3.01	0.49
85:2:1877:C:H2'	85:2:1878:G:C8	2.47	0.49
85:2:1914:A:H8	85:2:1914:A:OP2	1.96	0.49
88:BK:38:ALA:C	88:BK:40:ALA:N	2.71	0.49
6:Ae:50:LYS:HA	6:Ae:53:MET:HE3	1.94	0.49
10:Aj:40:GLN:NE2	10:Aj:159:MET:HE1	2.26	0.49
11:Ak:59:ASN:ND2	11:Ak:148:ARG:H	2.07	0.49
21:Au:144:TRP:C	21:Au:146:GLN:H	2.19	0.49
22:Av:212:LEU:HD13	22:Av:226:LYS:HE3	1.94	0.49
33:AI:213:LYS:HZ1	33:AI:217:LEU:N	1.96	0.49
39:AO:93:GLN:OE1	39:AO:120:SER:HB2	2.13	0.49
39:AO:350:ILE:HG13	39:AO:378:TYR:CE2	2.46	0.49
40:AP:246:ALA:O	40:AP:248:ALA:N	2.46	0.49
41:AQ:416:VAL:O	41:AQ:420:MET:HG2	2.12	0.49
43:1:75:C:C2	43:1:105:A:C2	3.00	0.49
43:1:543:A:C4'	43:1:544:G:H5'	2.41	0.49
43:1:687:G:H2'	43:1:688:U:C6	2.48	0.49
43:1:763:U:O3'	43:1:764:U:H3'	2.13	0.49
43:1:774:C:O2	43:1:800:U:H4'	2.13	0.49
43:1:832:A:H2'	43:1:833:G:C8	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:986:G:C6	43:1:1084:G:C6	3.01	0.49
43:1:1012:U:C4	43:1:1013:C:N4	2.80	0.49
43:1:1551:A:H61	43:1:1898:C:H41	1.59	0.49
43:1:2052:C:N4	43:1:2058:A:H61	2.07	0.49
43:1:2262:U:N3	43:1:2265:G:OP2	2.36	0.49
43:1:2384:C:C2	43:1:2735:G:N2	2.81	0.49
50:Bm:156:LEU:HD12	50:Bm:159:ILE:HD13	1.94	0.49
52:Bw:359:ASN:O	52:Bw:363:THR:HG22	2.12	0.49
54:Bz:324:LEU:HD22	54:Bz:328:GLN:HB2	1.95	0.49
61:Bc:37:ILE:HG12	85:2:443:C:C6	2.47	0.49
66:Bn:361:LYS:HD3	66:Bn:383:MET:HE1	1.95	0.49
68:Bp:64:SER:OG	68:Bp:65:LYS:N	2.46	0.49
76:BD:323:TYR:O	85:2:473:A:O2'	2.29	0.49
85:2:357:A:C6	85:2:358:C:C4	3.01	0.49
85:2:509:U:C4	85:2:510:C:N4	2.81	0.49
85:2:833:G:C6	85:2:845:C:N3	2.81	0.49
85:2:1191:U:O2'	85:2:1192:A:H8	1.95	0.49
85:2:1370:A:O2'	85:2:1371:C:P	2.71	0.49
85:2:1531:G:H1'	85:2:1532:G:C8	2.48	0.49
85:2:1602:U:O2	85:2:1718:C:H1'	2.13	0.49
85:2:1844:U:O2'	85:2:1845:G:H2'	2.12	0.49
10:Aj:42:LEU:HB2	10:Aj:81:PHE:CD1	2.48	0.49
10:Aj:82:THR:OG1	10:Aj:83:GLY:N	2.45	0.49
15:Ao:16:LEU:HG	15:Ao:18:PRO:HD3	1.95	0.49
19:As:119:LYS:NZ	43:1:2322:U:OP2	2.30	0.49
36:AL:29:ARG:NH2	43:1:1097:U:H5'	2.27	0.49
41:AQ:295:ARG:HG3	41:AQ:335:ILE:HD12	1.95	0.49
43:1:614:G:H2'	43:1:615:G:H8	1.77	0.49
43:1:692:G:H21	43:1:693:C:H41	1.61	0.49
43:1:761:C:H41	43:1:762:A:H62	1.60	0.49
43:1:886:U:H2'	43:1:887:A:C8	2.48	0.49
43:1:1149:A:C5	43:1:1150:A:C5	3.00	0.49
43:1:1296:G:N1	43:1:1297:A:C6	2.81	0.49
43:1:1897:A:O2'	43:1:1898:C:O5'	2.30	0.49
43:1:2081:G:H2'	43:1:2082:G:C8	2.48	0.49
45:Bb:350:TYR:CZ	45:Bb:352:ASN:HB3	2.48	0.49
49:Bl:43:LYS:HB2	49:Bl:44:PRO:CD	2.36	0.49
49:Bl:50:GLN:HA	49:Bl:55:ILE:HB	1.95	0.49
51:Br:137:TRP:CZ3	51:Br:138:LYS:HB3	2.48	0.49
51:Br:166:LEU:HD12	51:Br:166:LEU:C	2.37	0.49
62:Bd:507:ARG:NH1	76:BD:277:TRP:HE3	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:Bg:77:ARG:NH2	85:2:639:C:H1'	2.28	0.49
65:Bj:230:GLY:N	65:Bj:233:LYS:HG3	2.27	0.49
66:Bn:398:ASP:OD2	66:Bn:401:SER:OG	2.14	0.49
67:Bo:72:PRO:HA	67:Bo:75:ARG:HD3	1.93	0.49
76:BD:189:MET:HB3	76:BD:209:TYR:CZ	2.48	0.49
85:2:48:C:C2	85:2:420:G:N2	2.77	0.49
85:2:76:G:C2	85:2:166:G:N2	2.80	0.49
85:2:135:C:H1'	85:2:148:G:N2	2.28	0.49
85:2:1395:C:O2'	85:2:1396:U:H6	1.96	0.49
85:2:1409:G:H4'	85:2:1411:G:OP1	2.12	0.49
85:2:1593:C:H2'	85:2:1594:A:C8	2.48	0.49
85:2:1615:U:H2'	85:2:1616:G:C8	2.48	0.49
85:2:1801:A:C2	85:2:1802:C:C2	3.01	0.49
85:2:1852:U:O2'	85:2:1853:U:H5'	2.12	0.49
88:BK:90:ALA:O	88:BK:93:ALA:HB3	2.12	0.49
3:Ac:83:LYS:NZ	43:1:2982:C:O3'	2.45	0.49
10:Aj:53:LEU:HD11	10:Aj:138:LYS:O	2.13	0.49
10:Aj:162:ARG:HB2	10:Aj:163:ARG:CZ	2.43	0.49
11:Ak:134:LYS:NZ	11:Ak:138:THR:OG1	2.45	0.49
15:Ao:87:ILE:HD11	43:1:2675:A:C2	2.48	0.49
31:AG:45:GLY:HA2	31:AG:56:GLN:CD	2.37	0.49
36:AL:25:LEU:HB2	43:1:1110:G:C2	2.47	0.49
39:AO:168:TYR:HA	39:AO:171:THR:HG22	1.95	0.49
41:AQ:417:PHE:CD2	41:AQ:421:LYS:HE2	2.48	0.49
43:1:20:G:C4	43:1:666:G:N2	2.81	0.49
43:1:99:C:H2'	43:1:100:C:C6	2.47	0.49
43:1:155:U:H1'	43:1:156:G:H5'	1.94	0.49
43:1:270:A:O2'	43:1:271:G:H8	1.96	0.49
43:1:457:A:H62	43:1:471:G:N2	2.10	0.49
43:1:542:G:O2'	43:1:543:A:H5'	2.13	0.49
43:1:600:U:O4	43:1:611:A:N7	2.46	0.49
43:1:660:C:H2'	43:1:661:G:O4'	2.12	0.49
43:1:939:A:H2'	43:1:940:U:C6	2.48	0.49
43:1:1021:U:H2'	43:1:1022:A:H8	1.77	0.49
43:1:1158:A:N3	43:1:1303:C:O2'	2.45	0.49
43:1:1186:A:C6	43:1:1187:U:C4	3.01	0.49
43:1:1247:A:H2'	43:1:1248:G:O4'	2.12	0.49
43:1:1537:G:C2	43:1:1539:U:C6	3.00	0.49
43:1:1588:C:OP2	43:1:1589:U:H2'	2.13	0.49
43:1:2378:G:C6	43:1:2380:G:O6	2.65	0.49
44:3:37:U:H2'	44:3:38:C:C6	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:3:106:C:O2'	44:3:107:C:O5'	2.28	0.49
46:Bf:46:VAL:HG12	46:Bf:50:MET:HE2	1.94	0.49
48:Bi:126:LYS:HE3	48:Bi:191:LYS:HA	1.94	0.49
52:Bw:388:ASN:OD1	52:Bw:389:ALA:N	2.46	0.49
54:Bz:390:VAL:O	54:Bz:394:LEU:HD23	2.12	0.49
60:Ba:106:PHE:CE2	60:Ba:145:VAL:HG12	2.48	0.49
62:Bd:367:LYS:HG3	62:Bd:381:THR:O	2.12	0.49
65:Bj:294:TYR:CE2	65:Bj:296:GLU:HB2	2.48	0.49
66:Bn:337:VAL:HA	66:Bn:340:GLU:HG2	1.95	0.49
72:Bv:187:GLU:HG2	72:Bv:188:ALA:N	2.27	0.49
73:By:79:TYR:HB2	85:2:234:A:C6	2.47	0.49
73:By:96:TRP:HZ2	85:2:209:C:C5'	2.18	0.49
75:BC:53:VAL:HB	75:BC:56:HIS:HB2	1.94	0.49
76:BD:185:GLU:HB3	76:BD:209:TYR:CD2	2.47	0.49
76:BD:325:ARG:HG3	85:2:474:U:OP2	2.13	0.49
85:2:530:A:C5	85:2:533:C:C4	3.01	0.49
85:2:547:G:C4	85:2:548:U:C5	3.01	0.49
85:2:1145:G:H4'	85:2:1146:C:OP1	2.12	0.49
85:2:1183:G:O2'	85:2:1184:C:P	2.71	0.49
2:Ab:195:TYR:CE2	2:Ab:197:SER:HB3	2.47	0.49
5:Ad:214:ASP:N	5:Ad:214:ASP:OD1	2.44	0.49
6:Ae:112:VAL:HG11	6:Ae:139:SER:HB2	1.94	0.49
8:Ag:86:TYR:O	8:Ag:90:ILE:HG12	2.13	0.49
10:Aj:31:ARG:CZ	32:AH:142:THR:HG23	2.43	0.49
14:An:101:VAL:HG12	14:An:102:GLY:H	1.78	0.49
15:Ao:71:LYS:N	15:Ao:105:SER:OG	2.46	0.49
15:Ao:94:ARG:O	15:Ao:96:HIS:N	2.46	0.49
18:Ar:208:LEU:HD13	18:Ar:230:ARG:CZ	2.42	0.49
21:Au:28:ASP:N	21:Au:28:ASP:OD1	2.44	0.49
25:Ay:52:LYS:C	25:Ay:54:VAL:N	2.70	0.49
25:Ay:130:ASP:N	25:Ay:130:ASP:OD1	2.46	0.49
28:AC:11:PHE:O	28:AC:58:LYS:N	2.46	0.49
28:AC:58:LYS:HG2	43:1:2718:C:H4'	1.95	0.49
30:AF:204:LEU:O	30:AF:208:ALA:N	2.41	0.49
33:AI:65:TYR:CE2	33:AI:68:GLU:HA	2.48	0.49
37:AM:120:PHE:C	37:AM:121:PHE:HD1	2.21	0.49
43:1:134:C:N3	43:1:151:U:C4	2.81	0.49
43:1:152:C:O2'	43:1:153:U:O5'	2.30	0.49
43:1:432:A:C5	43:1:455:A:C5	3.01	0.49
43:1:1316:C:H2'	43:1:1317:C:C6	2.47	0.49
43:1:1330:U:O2'	43:1:1331:U:O5'	2.23	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1393:A:H4'	43:1:1394:G:OP1	2.13	0.49
43:1:2811:A:H2'	43:1:2812:U:H6	1.78	0.49
43:1:2950:A:H2'	43:1:2951:A:H8	1.78	0.49
43:1:3085:A:H2'	43:1:3086:A:O4'	2.12	0.49
47:Bh:308:GLY:N	47:Bh:386:ALA:HB2	2.27	0.49
49:Bl:97:GLU:OE1	49:Bl:100:ARG:NE	2.37	0.49
50:Bm:122:ARG:NH1	85:2:1569:U:OP1	2.46	0.49
52:Bw:271:LEU:HB3	52:Bw:322:VAL:HG23	1.94	0.49
61:Bc:110:ILE:O	61:Bc:114:LEU:HG	2.13	0.49
62:Bd:368:VAL:HG12	62:Bd:369:CYS:N	2.28	0.49
62:Bd:427:HIS:O	62:Bd:469:LYS:N	2.31	0.49
63:Be:50:TYR:CE2	85:2:669:G:H4'	2.47	0.49
65:Bj:251:LYS:HG3	65:Bj:252:ALA:N	2.28	0.49
70:Bs:67:SER:OG	70:Bs:68:GLU:N	2.45	0.49
76:BD:145:GLN:O	76:BD:149:GLN:HG3	2.13	0.49
85:2:830:U:H2'	85:2:831:U:C5	2.47	0.49
88:BK:93:ALA:HB2	88:BK:124:ALA:HB1	1.93	0.49
88:BK:219:ALA:HB1	88:BK:254:ALA:CA	2.39	0.49
5:Ad:89:LEU:HB3	5:Ad:106:LEU:HB2	1.95	0.48
9:Ai:106:VAL:HG22	9:Ai:147:GLY:O	2.13	0.48
12:Al:196:ARG:HB3	12:Al:214:ARG:HH21	1.78	0.48
18:Ar:126:PRO:HG2	18:Ar:172:LYS:NZ	2.28	0.48
21:Au:31:GLU:HB3	21:Au:50:LYS:HE2	1.94	0.48
25:Ay:105:GLU:O	25:Ay:105:GLU:CD	2.56	0.48
32:AH:141:THR:OG1	32:AH:142:THR:N	2.43	0.48
33:AI:136:TYR:HD1	33:AI:138:SER:H	1.61	0.48
33:AI:168:MET:N	33:AI:189:PHE:O	2.32	0.48
38:AN:119:ARG:NH2	43:1:1541:G:H5''	2.25	0.48
39:AO:431:ASN:OD1	39:AO:432:LEU:N	2.46	0.48
40:AP:686:ALA:O	40:AP:690:ALA:HA	2.14	0.48
41:AQ:336:ARG:HA	41:AQ:336:ARG:HE	1.78	0.48
41:AQ:360:TYR:O	41:AQ:364:ILE:HG12	2.13	0.48
43:1:57:G:N1	43:1:69:G:C6	2.81	0.48
43:1:70:A:H2'	43:1:70:A:N3	2.27	0.48
43:1:881:C:H2'	43:1:882:C:O4'	2.13	0.48
43:1:947:U:H2'	43:1:948:A:H8	1.78	0.48
43:1:1660:A:C4	43:1:1661:U:C5	3.01	0.48
43:1:2163:G:H2'	43:1:2164:A:C8	2.48	0.48
43:1:2194:G:H2'	43:1:2195:A:C8	2.48	0.48
43:1:2225:C:H2'	43:1:2226:U:C6	2.47	0.48
43:1:2471:C:N4	43:1:2472:A:N1	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2493:U:C2	43:1:2526:G:N2	2.81	0.48
43:1:2756:G:C8	43:1:2788:G:C6	3.00	0.48
43:1:2759:G:H1'	43:1:2790:U:C4	2.48	0.48
43:1:2808:C:C4	43:1:2809:U:C4	3.01	0.48
52:Bw:328:SER:C	52:Bw:330:HIS:H	2.19	0.48
60:Ba:78:GLU:O	60:Ba:81:GLU:HG2	2.12	0.48
61:Bc:25:LEU:HD23	61:Bc:74:LYS:HG2	1.96	0.48
61:Bc:34:LEU:HD12	61:Bc:34:LEU:H	1.78	0.48
61:Bc:60:LYS:HZ2	62:Bd:366:LYS:HA	1.78	0.48
61:Bc:235:PHE:CE2	76:BD:169:LYS:CE	2.96	0.48
62:Bd:304:GLU:HA	62:Bd:307:ASN:OD1	2.13	0.48
62:Bd:367:LYS:HZ1	62:Bd:380:TYR:HB3	1.75	0.48
65:Bj:203:ASN:OD1	65:Bj:203:ASN:N	2.46	0.48
67:Bo:54:LEU:HD12	67:Bo:55:LYS:H	1.77	0.48
77:BE:83:ASN:O	77:BE:138:LYS:NZ	2.45	0.48
77:BE:198:GLU:O	77:BE:202:LEU:HD13	2.13	0.48
85:2:147:G:O2'	85:2:148:G:OP2	2.26	0.48
85:2:851:C:H2'	85:2:852:U:O4'	2.13	0.48
85:2:1192:A:O2'	85:2:1193:G:P	2.71	0.48
85:2:1207:C:O2'	85:2:1208:C:C6	2.65	0.48
85:2:1511:C:C2	85:2:1512:C:C5	3.01	0.48
85:2:1557:G:H2'	85:2:1558:C:C6	2.45	0.48
85:2:1569:U:H2'	85:2:1570:G:H8	1.76	0.48
85:2:1774:U:H2'	85:2:1775:U:C6	2.48	0.48
85:2:1819:A:H2	85:2:1827:G:O6	1.94	0.48
88:BK:86:ALA:CB	88:BK:120:ALA:HB2	2.43	0.48
3:Ac:228:GLY:HA2	43:1:2363:A:C2'	2.44	0.48
8:Ag:75:PRO:HB3	24:Ax:81:PHE:CE2	2.49	0.48
11:Ak:114:GLY:HA2	11:Ak:120:GLU:HA	1.95	0.48
18:Ar:133:LEU:HG	18:Ar:134:PHE:H	1.79	0.48
19:As:148:GLN:N	19:As:148:GLN:OE1	2.46	0.48
30:AF:213:LEU:HA	30:AF:216:PHE:CD1	2.48	0.48
33:AI:100:ARG:HE	33:AI:209:VAL:CG1	2.09	0.48
41:AQ:439:MET:O	41:AQ:442:ASN:HB3	2.13	0.48
43:1:159:C:H3'	43:1:160:U:C6	2.48	0.48
43:1:605:U:C4	43:1:932:A:C4	3.01	0.48
43:1:938:G:H2'	43:1:939:A:H8	1.78	0.48
43:1:995:G:H2'	43:1:996:G:C8	2.45	0.48
43:1:1025:G:N1	43:1:1042:U:C2	2.77	0.48
43:1:1422:G:N2	43:1:2323:G:H2'	2.27	0.48
43:1:1676:C:H1'	43:1:1677:A:C4	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2105:C:H2'	43:1:2106:A:C8	2.48	0.48
43:1:2324:A:C4	43:1:2325:A:C8	3.01	0.48
43:1:2407:A:C4	43:1:2490:G:N2	2.82	0.48
43:1:2938:C:H2'	43:1:2939:U:C6	2.48	0.48
46:Bf:17:ASN:ND2	46:Bf:25:ARG:HE	2.11	0.48
46:Bf:103:TYR:HH	85:2:1647:C:HO2'	1.56	0.48
49:Bl:58:ARG:NH2	56:Bt:54:LYS:HB3	2.21	0.48
52:Bw:294:VAL:HG13	52:Bw:309:ALA:HB2	1.95	0.48
61:Bc:35:THR:O	61:Bc:39:ARG:HG2	2.14	0.48
71:Bu:57:ARG:NH2	85:2:838:C:O5'	2.46	0.48
77:BE:233:ARG:NH2	77:BE:251:GLN:HE21	2.11	0.48
77:BE:373:LEU:O	77:BE:376:VAL:HG22	2.13	0.48
85:2:330:C:H2'	85:2:331:C:C6	2.48	0.48
85:2:606:A:C5	85:2:607:G:C8	3.01	0.48
85:2:1180:U:HO2'	85:2:1181:G:H8	1.61	0.48
85:2:1428:G:O2'	85:2:1429:A:C5'	2.53	0.48
85:2:1646:U:H4'	85:2:1647:C:H5'	1.95	0.48
86:Az:30:THR:HG23	86:Az:35:ARG:HE	1.78	0.48
2:Ab:161:PRO:HA	2:Ab:167:GLY:HA3	1.95	0.48
3:Ac:188:THR:HG22	3:Ac:242:ALA:H	1.79	0.48
3:Ac:258:ALA:C	3:Ac:260:ASN:H	2.22	0.48
11:Ak:68:ILE:HD11	11:Ak:84:VAL:HG12	1.95	0.48
17:Aq:55:ASN:OD1	17:Aq:59:ARG:NE	2.35	0.48
18:Ar:141:PHE:HB2	18:Ar:152:LYS:HD3	1.95	0.48
22:Av:212:LEU:HD12	22:Av:228:GLU:HA	1.95	0.48
31:AG:48:THR:HB	31:AG:52:GLY:H	1.79	0.48
33:AI:111:LEU:HG	33:AI:211:VAL:O	2.13	0.48
33:AI:112:TYR:HD1	33:AI:211:VAL:HG11	1.78	0.48
34:AJ:64:VAL:HG22	34:AJ:85:LYS:CB	2.41	0.48
36:AL:50:ASN:HB2	86:Az:70:VAL:O	2.14	0.48
37:AM:45:ILE:HG22	37:AM:46:ASN:H	1.77	0.48
41:AQ:147:SER:HA	41:AQ:177:THR:HG23	1.95	0.48
43:1:66:G:N1	43:1:597:A:C5	2.63	0.48
43:1:265:A:H2'	43:1:266:A:N9	2.29	0.48
43:1:312:G:H21	43:1:485:A:N6	2.10	0.48
43:1:610:G:O2'	43:1:611:A:O4'	2.31	0.48
43:1:633:C:H2'	43:1:633:C:O2	2.12	0.48
43:1:1333:U:H2'	43:1:1334:C:H6	1.74	0.48
43:1:1494:G:C2	43:1:1495:A:C4	3.02	0.48
43:1:1577:A:C5	43:1:1578:C:C4	3.01	0.48
43:1:1857:C:O2'	43:1:1858:U:H6	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2593:U:H2'	43:1:2594:A:C8	2.48	0.48
43:1:2817:U:N3	43:1:2839:A:C6	2.81	0.48
43:1:2868:G:H2'	43:1:2869:U:O4'	2.14	0.48
43:1:3139:U:H3'	43:1:3140:G:H8	1.77	0.48
44:3:35:G:N2	44:3:37:U:O4	2.44	0.48
44:3:111:C:H2'	44:3:112:C:C6	2.48	0.48
45:Bb:544:LYS:O	45:Bb:544:LYS:HD3	2.13	0.48
47:Bh:379:ILE:O	47:Bh:383:ILE:HG13	2.13	0.48
49:Bl:88:GLU:O	49:Bl:91:GLN:HG2	2.12	0.48
54:Bz:332:LEU:O	54:Bz:336:VAL:HG22	2.13	0.48
60:Ba:166:LEU:HG	60:Ba:170:GLU:HG3	1.95	0.48
61:Bc:47:ASN:ND2	61:Bc:48:ARG:HE	2.12	0.48
61:Bc:49:LYS:O	61:Bc:53:LYS:HG2	2.12	0.48
61:Bc:134:VAL:N	61:Bc:137:GLY:O	2.34	0.48
65:Bj:243:ALA:HB1	65:Bj:278:PHE:HB2	1.95	0.48
72:Bv:78:ARG:HD2	85:2:202:A:OP1	2.12	0.48
77:BE:366:PRO:HD2	77:BE:368:TRP:HE1	1.77	0.48
85:2:163:A:H2'	85:2:164:A:C8	2.48	0.48
85:2:234:A:H4'	85:2:235:A:C8	2.49	0.48
85:2:821:U:H2'	85:2:822:G:C8	2.45	0.48
85:2:911:A:H2'	85:2:912:A:H8	1.77	0.48
85:2:1131:G:N1	85:2:1486:U:C2	2.78	0.48
85:2:1131:G:C6	85:2:1486:U:N3	2.76	0.48
85:2:1812:C:O2'	85:2:1813:U:H2'	2.14	0.48
3:Ac:69:GLU:O	3:Ac:70:MET:HG2	2.13	0.48
5:Ad:191:GLN:HG3	43:1:755:U:OP2	2.14	0.48
6:Ae:11:VAL:O	6:Ae:14:GLN:NE2	2.46	0.48
17:Aq:58:SER:O	17:Aq:61:HIS:N	2.45	0.48
18:Ar:122:LYS:O	18:Ar:123:VAL:CG2	2.61	0.48
19:As:135:ALA:O	19:As:139:LEU:HD13	2.13	0.48
22:Av:67:LEU:HD12	22:Av:78:SER:H	1.77	0.48
23:Aw:84:ARG:NH2	43:1:2661:U:O2'	2.45	0.48
33:AI:35:ARG:NH1	33:AI:106:ALA:O	2.43	0.48
33:AI:38:VAL:HG22	33:AI:107:LEU:O	2.14	0.48
36:AL:53:VAL:HG12	36:AL:64:ASN:OD1	2.12	0.48
39:AO:102:LYS:C	39:AO:104:ARG:H	2.22	0.48
39:AO:269:PHE:HA	43:1:1640:C:C5'	2.40	0.48
40:AP:557:ALA:HB2	40:AP:585:ALA:HB3	1.95	0.48
41:AQ:190:ARG:HH11	43:1:1913:G:H8	1.62	0.48
43:1:240:A:O2'	43:1:515:G:N7	2.35	0.48
43:1:773:G:H2'	43:1:774:C:C6	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1051:C:H2'	43:1:1052:A:H8	1.78	0.48
43:1:1476:G:C2	43:1:1477:U:C2	3.01	0.48
43:1:1847:A:H1'	43:1:1850:G:C8	2.48	0.48
43:1:1871:A:C6	43:1:1872:A:N6	2.82	0.48
43:1:1998:G:C6	43:1:2309:G:C6	3.01	0.48
43:1:1999:A:C4	43:1:3028:A:C2	3.00	0.48
43:1:2246:G:O2'	43:1:2247:A:H5''	2.13	0.48
43:1:2563:C:C2	43:1:2564:U:C5	3.02	0.48
44:3:114:G:H2'	44:3:115:G:H8	1.77	0.48
45:Bb:529:ARG:HD2	85:2:529:A:H61	1.79	0.48
48:Bi:164:THR:HG21	50:Bm:144:ARG:NH2	2.28	0.48
50:Bm:126:ARG:NH1	50:Bm:133:SER:HB2	2.28	0.48
52:Bw:438:VAL:HG23	52:Bw:449:ARG:HD3	1.96	0.48
53:Bx:39:HIS:O	53:Bx:43:ARG:HG3	2.14	0.48
61:Bc:124:ARG:O	61:Bc:125:GLN:HG2	2.14	0.48
62:Bd:312:LYS:O	62:Bd:316:LYS:HG2	2.13	0.48
67:Bo:51:ARG:NH1	85:2:473:A:H3'	2.29	0.48
69:Bq:188:THR:HB	69:Bq:194:ILE:HG23	1.94	0.48
75:BC:91:ILE:O	75:BC:95:SER:OG	2.25	0.48
78:BI:136:ALA:HA	85:2:1818:A:OP1	2.14	0.48
79:BJ:47:ALA:HB1	79:BJ:56:ALA:HB2	1.95	0.48
85:2:162:C:H1'	85:2:163:A:H5'	1.96	0.48
85:2:356:G:C6	85:2:357:A:C6	3.01	0.48
85:2:541:G:C6	85:2:542:C:C4	3.01	0.48
85:2:587:G:C6	85:2:645:A:C6	3.01	0.48
85:2:702:U:H2'	85:2:703:A:H8	1.78	0.48
85:2:736:G:C2	85:2:737:G:C4	3.02	0.48
85:2:1146:C:O2'	85:2:1147:U:O5'	2.31	0.48
89:Bk:66:TYR:CE2	89:Bk:87:VAL:CG2	2.97	0.48
3:Ac:75:LYS:H	3:Ac:160:THR:HG23	1.78	0.48
3:Ac:253:TYR:CD1	3:Ac:254:LYS:HB2	2.48	0.48
9:Ai:85:SER:HB3	9:Ai:142:THR:HB	1.95	0.48
18:Ar:153:VAL:HG21	18:Ar:238:ILE:HG21	1.96	0.48
20:At:52:TYR:CE2	25:Ay:41:PHE:HE1	2.30	0.48
23:Aw:59:ARG:NE	43:1:2581:G:O6	2.42	0.48
24:Ax:111:LEU:HD23	24:Ax:118:LYS:NZ	2.28	0.48
41:AQ:410:LEU:HD13	41:AQ:439:MET:HE2	1.95	0.48
43:1:44:G:C6	43:1:580:A:C6	3.02	0.48
43:1:116:G:H2'	43:1:117:G:O4'	2.13	0.48
43:1:308:C:H1'	43:1:309:C:H5''	1.96	0.48
43:1:833:G:H2'	43:1:834:C:H6	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1011:C:H2'	43:1:1012:U:C6	2.47	0.48
43:1:1109:A:N7	43:1:1111:A:C5	2.81	0.48
43:1:1110:G:N1	43:1:2342:A:N7	2.61	0.48
43:1:1461:U:H2'	43:1:1462:G:C8	2.48	0.48
43:1:1585:U:O4	43:1:1621:C:N4	2.46	0.48
43:1:2165:A:C6	43:1:2166:A:N7	2.82	0.48
43:1:2338:G:N1	43:1:2348:G:C6	2.81	0.48
43:1:2768:G:C2	43:1:2769:A:N7	2.81	0.48
49:Bl:40:PRO:HB2	49:Bl:45:LEU:HG	1.95	0.48
50:Bm:74:HIS:HA	53:Bx:55:TYR:HE2	1.78	0.48
52:Bw:244:ARG:HB2	52:Bw:359:ASN:HD21	1.77	0.48
54:Bz:316:SER:HA	54:Bz:347:LEU:O	2.13	0.48
61:Bc:169:SER:OG	61:Bc:170:PHE:N	2.46	0.48
63:Be:73:PRO:O	63:Be:75:MET:N	2.46	0.48
77:BE:337:ARG:HE	77:BE:387:PRO:HB2	1.79	0.48
85:2:464:G:C2	85:2:488:G:C2	3.02	0.48
85:2:554:G:C6	85:2:555:G:C6	3.01	0.48
85:2:701:C:C4	85:2:702:U:C4	3.01	0.48
85:2:921:G:OP2	85:2:921:G:N2	2.38	0.48
85:2:1088:C:H2'	85:2:1089:C:H6	1.77	0.48
85:2:1178:G:C2	85:2:1179:A:C4	2.99	0.48
85:2:1424:G:O2'	85:2:1425:U:P	2.71	0.48
85:2:1534:G:H8	85:2:1534:G:OP2	1.96	0.48
85:2:1537:G:C6	85:2:1538:A:C6	3.00	0.48
85:2:1598:A:H2'	85:2:1599:C:C6	2.48	0.48
86:Az:19:LEU:HD23	86:Az:74:GLU:HA	1.94	0.48
87:Ah:126:TYR:O	87:Ah:130:GLU:HG3	2.13	0.48
88:BK:165:ALA:CB	88:BK:196:ALA:HB1	2.44	0.48
7:Af:51:LYS:HG2	7:Af:52:ASN:N	2.28	0.48
7:Af:66:HIS:CE1	43:1:3048:U:H4'	2.48	0.48
8:Ag:88:TYR:HA	8:Ag:91:ARG:HH11	1.78	0.48
22:Av:62:VAL:HA	22:Av:145:PHE:O	2.14	0.48
24:Ax:58:ARG:HB2	24:Ax:69:ARG:CD	2.43	0.48
26:AA:38:PHE:HE2	26:AA:54:PHE:HB3	1.79	0.48
32:AH:6:VAL:HG22	32:AH:7:TRP:O	2.14	0.48
33:AI:65:TYR:HE2	33:AI:68:GLU:HA	1.78	0.48
39:AO:134:CYS:HB2	39:AO:163:SER:HB2	1.95	0.48
39:AO:293:ALA:C	39:AO:295:PRO:HD3	2.39	0.48
39:AO:411:GLU:CD	39:AO:414:ARG:HD3	2.39	0.48
41:AQ:465:LYS:HA	41:AQ:468:ARG:HB3	1.95	0.48
43:1:129:A:N6	43:1:156:G:O6	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:256:U:HO2'	43:1:257:U:P	2.36	0.48
43:1:659:C:H2'	43:1:660:C:C6	2.48	0.48
43:1:704:U:O2'	43:1:705:A:H5'	2.13	0.48
43:1:847:G:O2'	43:1:870:G:N2	2.47	0.48
43:1:1025:G:H2'	43:1:1026:U:C6	2.49	0.48
43:1:1137:A:C3'	86:Az:28:PRO:HG2	2.43	0.48
43:1:1324:G:H2'	43:1:1325:C:O4'	2.13	0.48
43:1:1590:C:C2	43:1:1619:G:C2	3.00	0.48
43:1:1908:G:O2'	43:1:1909:G:OP2	2.23	0.48
43:1:1908:G:C2	43:1:1923:C:C2	3.00	0.48
43:1:2122:U:N3	43:1:2123:G:N7	2.61	0.48
43:1:2310:A:H2'	43:1:2311:C:O4'	2.14	0.48
43:1:2326:A:H5''	43:1:2327:U:OP2	2.13	0.48
43:1:2813:C:C2	43:1:2868:G:C2	3.02	0.48
43:1:2833:G:C2	43:1:2834:G:C8	3.02	0.48
43:1:3125:A:C4	43:1:3126:G:C8	3.01	0.48
44:3:18:G:N1	44:3:71:C:O4'	2.47	0.48
50:Bm:135:SER:N	85:2:969:A:OP2	2.42	0.48
52:Bw:339:LEU:O	52:Bw:343:LEU:HB2	2.12	0.48
54:Bz:312:LYS:HA	54:Bz:352:GLU:OE2	2.14	0.48
55:BA:31:LYS:O	55:BA:35:LYS:HG2	2.14	0.48
61:Bc:167:ARG:HH11	84:BL:23:ALA:HB2	1.79	0.48
65:Bj:248:ARG:HA	65:Bj:251:LYS:HG2	1.94	0.48
85:2:10:A:N3	85:2:610:G:O2'	2.47	0.48
85:2:52:A:H2'	85:2:53:U:C6	2.48	0.48
85:2:217:A:H5''	85:2:219:C:H41	1.79	0.48
85:2:225:G:H1'	85:2:226:A:C8	2.49	0.48
85:2:379:G:H2'	85:2:380:G:C8	2.49	0.48
85:2:596:U:O2	85:2:634:G:C6	2.66	0.48
85:2:1598:A:C6	85:2:1639:G:C6	3.01	0.48
85:2:1696:G:N1	85:2:1723:A:OP2	2.46	0.48
85:2:1748:C:N4	85:2:1898:A:C2	2.81	0.48
85:2:1777:G:H2'	85:2:1778:C:C6	2.49	0.48
87:Ah:132:MET:HB3	87:Ah:137:ASP:HB3	1.96	0.48
8:Ag:70:ARG:NH1	24:Ax:102:ASP:OD2	2.46	0.48
16:Ap:111:HIS:O	16:Ap:115:ILE:HG12	2.13	0.48
25:Ay:32:ARG:O	25:Ay:34:PRO:HD3	2.13	0.48
39:AO:334:ILE:HA	39:AO:337:VAL:HG22	1.95	0.48
40:AP:635:ALA:CB	40:AP:643:ALA:HB2	2.42	0.48
41:AQ:194:VAL:HG11	41:AQ:221:LEU:HD11	1.95	0.48
43:1:78:U:H2'	43:1:79:G:O4'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:155:U:O2'	43:1:156:G:H2'	2.13	0.48
43:1:548:G:N3	43:1:549:G:C8	2.82	0.48
43:1:680:A:C6	43:1:706:A:C5	3.02	0.48
43:1:776:C:N4	43:1:777:U:H5	2.12	0.48
43:1:895:A:C5	43:1:933:A:C2	3.01	0.48
43:1:1484:A:H2'	43:1:1485:A:H5'	1.96	0.48
43:1:1507:C:O2'	43:1:1896:A:H4'	2.14	0.48
43:1:1673:C:O2'	43:1:1674:A:O5'	2.30	0.48
43:1:2155:C:H4'	43:1:2156:G:C8	2.49	0.48
43:1:2460:U:H3'	43:1:2461:C:H6	1.78	0.48
43:1:2461:C:O2'	43:1:2462:C:O5'	2.31	0.48
43:1:2490:G:C2	43:1:2491:C:C2	3.01	0.48
43:1:2585:U:C2	43:1:2687:G:C2	3.01	0.48
43:1:2977:G:C6	43:1:2978:C:C4	3.01	0.48
44:3:114:G:H2'	44:3:115:G:C8	2.48	0.48
45:Bb:5:GLY:N	85:2:1540:G:OP2	2.41	0.48
45:Bb:445:VAL:HG22	45:Bb:446:TYR:CD2	2.48	0.48
48:Bi:166:LEU:HD23	85:2:1052:U:H4'	1.95	0.48
49:Bl:45:LEU:HD12	49:Bl:48:GLY:HA3	1.96	0.48
51:Br:161:ARG:NE	85:2:1670:U:H3	2.10	0.48
85:2:112:U:O2'	85:2:113:C:H6	1.97	0.48
85:2:149:G:C6	85:2:150:A:N6	2.82	0.48
85:2:453:G:C6	85:2:454:C:C4	3.01	0.48
85:2:547:G:H2'	85:2:548:U:H6	1.79	0.48
85:2:777:G:N2	85:2:799:A:H62	2.08	0.48
85:2:977:C:N4	85:2:978:C:H41	2.11	0.48
85:2:978:C:H2'	85:2:979:A:C8	2.49	0.48
85:2:1117:U:HO2'	85:2:1118:U:P	2.34	0.48
85:2:1182:U:O2'	85:2:1183:G:P	2.72	0.48
85:2:1404:C:O2'	85:2:1405:A:C8	2.66	0.48
85:2:1656:U:H2'	85:2:1657:U:O4'	2.14	0.48
85:2:1750:G:C6	85:2:1751:C:N3	2.82	0.48
5:Ad:270:ASN:ND2	5:Ad:273:SER:OG	2.27	0.48
12:Al:139:LEU:HA	12:Al:139:LEU:HD23	1.71	0.48
18:Ar:191:ARG:O	18:Ar:193:ILE:N	2.46	0.48
21:Au:23:ILE:HG12	21:Au:24:ILE:N	2.28	0.48
21:Au:27:LYS:HE3	43:1:462:G:O6	2.14	0.48
21:Au:124:ILE:HA	43:1:94:G:N7	2.28	0.48
26:AA:35:VAL:O	26:AA:35:VAL:HG13	2.14	0.48
29:AE:18:LYS:HB2	29:AE:23:VAL:HG22	1.96	0.48
32:AH:52:ARG:NH1	43:1:1363:U:H5''	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:AO:234:ASN:OD1	43:1:1641:U:O2'	2.10	0.48
39:AO:274:TYR:O	39:AO:283:VAL:HG21	2.14	0.48
41:AQ:410:LEU:HA	41:AQ:413:ALA:HB3	1.96	0.48
43:1:169:U:H2'	43:1:170:U:H6	1.77	0.48
43:1:253:G:H2'	43:1:254:A:H8	1.77	0.48
43:1:526:C:C4	43:1:527:U:N3	2.81	0.48
43:1:528:G:C6	43:1:529:A:N6	2.82	0.48
43:1:619:A:N6	43:1:621:A:N1	2.61	0.48
43:1:776:C:C4	43:1:777:U:C5	3.00	0.48
43:1:1053:G:O2'	43:1:1054:G:O5'	2.21	0.48
43:1:1190:A:H2'	43:1:1191:G:C8	2.46	0.48
43:1:1627:A:N1	43:1:1628:G:C6	2.82	0.48
43:1:1917:U:H2'	43:1:1919:C:O4'	2.13	0.48
43:1:1971:U:O2'	43:1:2077:C:O2'	2.21	0.48
43:1:2049:U:C2	43:1:2062:G:C2	3.02	0.48
43:1:2336:C:H2'	43:1:2337:C:H6	1.79	0.48
43:1:2566:C:C2	43:1:2579:G:C2	3.02	0.48
43:1:2584:G:N3	43:1:2723:A:N6	2.61	0.48
43:1:2994:C:C4	43:1:3020:G:N1	2.82	0.48
44:3:3:A:N6	44:3:117:G:O6	2.46	0.48
44:3:6:G:H2'	44:3:7:G:H8	1.78	0.48
44:3:22:C:H2'	44:3:23:G:H8	1.77	0.48
44:3:23:G:O2'	44:3:24:U:H5'	2.14	0.48
45:Bb:23:PHE:HB2	48:Bi:136:SER:HA	1.96	0.48
47:Bh:322:GLN:O	47:Bh:324:GLY:N	2.46	0.48
47:Bh:409:ARG:O	85:2:1696:G:H8	1.96	0.48
48:Bi:151:THR:HA	48:Bi:188:LEU:HD23	1.96	0.48
51:Br:147:MET:HB2	51:Br:163:SER:HB2	1.94	0.48
52:Bw:215:VAL:HG13	52:Bw:406:SER:HB3	1.95	0.48
53:Bx:51:VAL:HG11	85:2:1607:A:N6	2.28	0.48
60:Ba:102:LYS:HA	60:Ba:106:PHE:CE1	2.49	0.48
61:Bc:116:PHE:HE2	61:Bc:321:VAL:HG21	1.79	0.48
61:Bc:133:CYS:HB3	61:Bc:136:LYS:C	2.39	0.48
64:Bg:112:HIS:O	64:Bg:116:ILE:HG13	2.14	0.48
68:Bp:23:ARG:NE	85:2:256:C:H5''	2.28	0.48
77:BE:57:ASN:ND2	77:BE:93:GLY:O	2.44	0.48
85:2:428:G:N1	85:2:451:A:OP2	2.46	0.48
85:2:592:G:H22	85:2:638:C:N4	2.12	0.48
85:2:610:G:C6	85:2:611:C:C4	3.02	0.48
85:2:751:C:H2'	85:2:752:U:C6	2.48	0.48
85:2:815:G:N2	85:2:817:U:O2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:946:G:C4	85:2:947:G:C8	3.02	0.48
85:2:994:A:H61	85:2:1033:C:N4	2.02	0.48
85:2:1121:U:H5''	85:2:1122:C:OP1	2.14	0.48
85:2:1184:C:O2'	85:2:1185:C:P	2.72	0.48
85:2:1189:C:O2'	85:2:1190:C:P	2.71	0.48
85:2:1432:A:O2'	85:2:1433:A:P	2.72	0.48
85:2:1691:C:H2'	85:2:1692:G:C8	2.48	0.48
85:2:1815:U:H1'	85:2:1816:G:C8	2.48	0.48
85:2:1818:A:O2'	85:2:1819:A:C8	2.66	0.48
8:Ag:70:ARG:HG3	8:Ag:71:ASN:N	2.28	0.48
9:Ai:18:ARG:HB3	43:1:1207:G:C3'	2.43	0.48
13:Am:93:HIS:HA	13:Am:96:ARG:NH2	2.29	0.48
21:Au:23:ILE:CG2	21:Au:30:GLY:H	2.27	0.48
21:Au:127:THR:HG21	43:1:91:U:H5	1.79	0.48
25:Ay:80:LEU:HD22	25:Ay:110:VAL:HG13	1.95	0.48
33:Al:57:TRP:CD1	44:3:37:U:H5''	2.48	0.48
39:AO:89:THR:OG1	39:AO:92:ASP:N	2.28	0.48
41:AQ:362:VAL:HG23	41:AQ:365:ARG:HH22	1.78	0.48
43:1:487:G:O2'	43:1:488:G:H8	1.97	0.48
43:1:1020:C:H2'	43:1:1021:U:C6	2.49	0.48
43:1:1118:G:OP1	86:Az:32:LYS:N	2.44	0.48
43:1:1219:A:N1	43:1:1246:U:O2'	2.46	0.48
43:1:1255:G:O2'	87:Ah:79:MET:CE	2.62	0.48
43:1:1309:G:C2	43:1:1310:A:C8	3.01	0.48
43:1:1589:U:HO2'	43:1:1590:C:C5'	2.25	0.48
43:1:1604:G:H1'	43:1:1605:A:C4	2.48	0.48
43:1:1621:C:HO2'	43:1:1622:A:P	2.36	0.48
43:1:1925:G:HO2'	43:1:1926:U:C5'	2.25	0.48
43:1:2176:A:C8	43:1:2177:G:C8	3.02	0.48
43:1:2486:G:N3	43:1:2486:G:H2'	2.29	0.48
43:1:2918:C:C4	43:1:2919:G:N7	2.82	0.48
44:3:29:A:H2'	44:3:30:C:C6	2.48	0.48
47:Bh:346:ALA:O	47:Bh:350:ARG:HG2	2.13	0.48
48:Bi:190:ILE:HG22	48:Bi:191:LYS:O	2.13	0.48
51:Br:149:LYS:HZ2	85:2:1013:A:H5'	1.78	0.48
54:Bz:311:ARG:CZ	54:Bz:355:GLU:CG	2.92	0.48
63:Be:31:TYR:HB2	72:Bv:176:ILE:CG2	2.44	0.48
66:Bn:323:ASN:CG	66:Bn:324:MET:HG3	2.38	0.48
66:Bn:342:LYS:NZ	66:Bn:345:GLU:HA	2.29	0.48
67:Bo:50:LYS:HD2	76:BD:326:ARG:N	2.26	0.48
72:Bv:87:GLU:O	72:Bv:90:MET:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
77:BE:356:ARG:O	77:BE:360:VAL:HB	2.14	0.48
81:BN:17:ALA:O	81:BN:21:ALA:HB3	2.13	0.48
85:2:34:A:H62	85:2:555:G:H1'	1.79	0.48
85:2:241:U:C2	85:2:242:G:C8	3.02	0.48
85:2:346:A:C5	85:2:348:A:C5	3.02	0.48
85:2:461:G:H1'	85:2:494:G:N2	2.29	0.48
85:2:479:A:H5'	85:2:480:C:OP2	2.14	0.48
85:2:517:A:N6	85:2:526:G:H1'	2.27	0.48
85:2:610:G:C6	85:2:623:G:N1	2.82	0.48
85:2:872:C:C6	89:Bk:3:THR:HG21	2.48	0.48
85:2:1173:C:O2'	85:2:1174:G:P	2.72	0.48
85:2:1175:A:O2'	85:2:1176:G:P	2.72	0.48
85:2:1177:U:C4	85:2:1178:G:C5	3.02	0.48
85:2:1190:C:C4	85:2:1204:A:H2	2.32	0.48
85:2:1208:C:HO2'	85:2:1209:A:P	2.30	0.48
85:2:1426:G:O2'	85:2:1427:G:P	2.72	0.48
85:2:1576:C:O5'	85:2:1576:C:H6	1.97	0.48
85:2:1644:C:H2'	85:2:1645:C:O4'	2.14	0.48
85:2:1853:U:O2'	85:2:1854:G:H8	1.97	0.48
88:BK:50:ALA:CB	88:BK:53:ALA:HB3	2.44	0.48
88:BK:262:ALA:HA	88:BK:296:ALA:CB	2.44	0.48
89:Bk:99:ARG:HB3	89:Bk:106:GLY:HA2	1.96	0.48
3:Ac:122:ALA:HB1	3:Ac:156:GLU:HG2	1.94	0.48
4:AD:148:SER:HA	4:AD:151:ARG:NH2	2.28	0.48
5:Ad:257:ASN:ND2	43:1:453:A:O2'	2.47	0.48
6:Ae:124:LYS:O	6:Ae:126:SER:N	2.38	0.48
12:Al:125:GLY:N	43:1:2714:C:OP1	2.47	0.48
16:Ap:148:ASN:HB3	16:Ap:150:ARG:NH2	2.27	0.48
22:Av:219:PRO:O	22:Av:220:SER:OG	2.30	0.48
25:Ay:132:ARG:HH22	41:AQ:371:ALA:N	2.12	0.48
28:AC:30:THR:C	28:AC:31:LYS:HD3	2.38	0.48
29:AE:9:LYS:NZ	43:1:1181:A:OP1	2.47	0.48
30:AF:200:LEU:HD13	30:AF:204:LEU:HD12	1.94	0.48
35:AK:69:PRO:C	35:AK:71:ASP:N	2.72	0.48
39:AO:55:LYS:NZ	39:AO:92:ASP:OD2	2.36	0.48
39:AO:162:ASN:ND2	43:1:1643:A:H62	2.11	0.48
40:AP:588:ALA:O	40:AP:592:ALA:HB2	2.13	0.48
43:1:126:U:O2'	43:1:127:C:OP2	2.27	0.48
43:1:966:U:C4	43:1:967:C:C5	3.02	0.48
43:1:1663:A:HO2'	43:1:1664:A:P	2.37	0.48
43:1:1865:A:O2'	43:1:1866:U:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1950:C:C5	43:1:1952:C:C4	3.02	0.48
43:1:2367:G:C6	43:1:2875:A:C4	3.01	0.48
43:1:2395:C:H2'	43:1:2396:U:C6	2.49	0.48
43:1:2585:U:C6	43:1:2687:G:H2'	2.49	0.48
43:1:2915:U:C2	43:1:2916:A:C8	3.02	0.48
48:Bi:150:HIS:ND1	85:2:1116:G:OP1	2.39	0.48
50:Bm:132:ARG:HH21	85:2:966:G:HO2'	1.61	0.48
52:Bw:131:LEU:O	52:Bw:184:ARG:NH2	2.37	0.48
54:Bz:311:ARG:HD3	54:Bz:354:PHE:O	2.14	0.48
57:BG:47:LYS:O	57:BG:50:ALA:O	2.32	0.48
60:Ba:61:ALA:O	60:Ba:64:ARG:N	2.45	0.48
62:Bd:454:LYS:HB3	62:Bd:472:LYS:HG2	1.94	0.48
64:Bg:92:THR:HA	64:Bg:127:PHE:HE2	1.79	0.48
65:Bj:211:ASP:OD1	65:Bj:215:ASN:N	2.45	0.48
65:Bj:248:ARG:HA	65:Bj:251:LYS:CG	2.43	0.48
65:Bj:313:ARG:HH12	85:2:1918:U:H5''	1.77	0.48
76:BD:180:TYR:HB2	76:BD:252:PHE:CE1	2.49	0.48
76:BD:192:LEU:HB3	76:BD:200:TYR:CE2	2.49	0.48
85:2:111:C:O2'	85:2:112:U:OP2	2.24	0.48
85:2:174:C:H2'	85:2:175:G:O4'	2.13	0.48
85:2:231:U:O2	85:2:231:U:C2'	2.61	0.48
85:2:394:U:C2	85:2:395:G:C8	3.02	0.48
85:2:938:G:N2	85:2:1683:G:H4'	2.28	0.48
85:2:942:A:N6	85:2:1583:G:C6	2.81	0.48
85:2:968:A:H5'	85:2:968:A:N3	2.29	0.48
85:2:1178:G:N2	85:2:1179:A:N3	2.61	0.48
85:2:1180:U:O2'	85:2:1181:G:P	2.72	0.48
85:2:1192:A:O2'	85:2:1193:G:OP2	2.32	0.48
85:2:1377:G:O2'	85:2:1378:U:P	2.72	0.48
85:2:1851:A:C6	85:2:1852:U:C4	3.02	0.48
86:Az:22:THR:HG21	86:Az:71:VAL:HG21	1.96	0.48
88:BK:153:ALA:HB2	88:BK:189:ALA:HB2	1.96	0.48
10:Aj:95:THR:HG22	43:1:2943:A:H5''	1.96	0.47
13:Am:51:ARG:NH2	43:1:1101:G:N7	2.62	0.47
18:Ar:205:GLU:OE2	18:Ar:207:ALA:HB3	2.14	0.47
22:Av:178:ARG:CD	43:1:1018:G:C4'	2.91	0.47
27:AB:123:PHE:O	27:AB:123:PHE:CG	2.67	0.47
33:AI:220:PHE:CE1	33:AI:223:GLN:HB2	2.49	0.47
36:AL:37:LYS:HE2	36:AL:37:LYS:HB2	1.65	0.47
39:AO:344:TYR:HB3	39:AO:349:LEU:O	2.14	0.47
43:1:199:G:H2'	43:1:200:G:H8	1.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:869:G:C6	43:1:870:G:N2	2.82	0.47
43:1:2735:G:O4'	43:1:2896:A:C2	2.66	0.47
43:1:2960:C:N4	43:1:2961:G:C6	2.82	0.47
43:1:3109:A:O4'	43:1:3153:A:N6	2.47	0.47
44:3:66:U:H5	44:3:67:C:H41	1.60	0.47
45:Bb:419:GLU:O	45:Bb:423:MET:HG2	2.14	0.47
48:Bi:170:HIS:CD2	85:2:956:G:H1'	2.49	0.47
52:Bw:340:ARG:HD2	52:Bw:389:ALA:HB1	1.96	0.47
59:BF:54:ALA:O	59:BF:58:ALA:HB2	2.12	0.47
61:Bc:46:ARG:O	61:Bc:50:ARG:HB3	2.14	0.47
61:Bc:102:ASN:OD1	61:Bc:103:LEU:N	2.47	0.47
61:Bc:154:PHE:HB2	61:Bc:326:PRO:HG2	1.95	0.47
61:Bc:155:GLN:CD	61:Bc:157:ASN:H	2.22	0.47
62:Bd:371:VAL:HG11	85:2:23:G:O2'	2.14	0.47
67:Bo:58:ARG:HH21	67:Bo:62:TRP:NE1	2.12	0.47
68:Bp:13:MET:SD	85:2:294:G:O2'	2.67	0.47
76:BD:172:LYS:HD2	76:BD:172:LYS:C	2.39	0.47
76:BD:231:ARG:HH11	76:BD:232:LYS:HE2	1.79	0.47
85:2:275:U:H2'	85:2:276:U:C6	2.49	0.47
85:2:649:G:C5	85:2:650:A:C8	3.01	0.47
85:2:726:G:OP1	85:2:762:A:H1'	2.14	0.47
85:2:950:U:H3	85:2:953:U:H6	1.59	0.47
85:2:1176:G:O2'	85:2:1177:U:P	2.72	0.47
85:2:1373:U:O2'	85:2:1374:C:P	2.72	0.47
85:2:1507:A:C2	85:2:1531:G:C5	3.02	0.47
85:2:1525:G:H2'	85:2:1526:A:C8	2.48	0.47
85:2:1551:C:H1'	85:2:1552:G:OP2	2.14	0.47
85:2:1658:G:C6	85:2:1659:U:C4	3.02	0.47
85:2:1673:G:C6	85:2:1674:G:C5	3.02	0.47
85:2:1692:G:H2'	85:2:1693:C:C6	2.48	0.47
1:Aa:48:ARG:HD3	1:Aa:48:ARG:HA	1.67	0.47
9:Ai:100:ARG:HB2	9:Ai:104:LEU:HD12	1.94	0.47
14:An:32:GLU:OE2	14:An:99:ILE:HD13	2.14	0.47
21:Au:77:SER:O	21:Au:77:SER:OG	2.32	0.47
36:AL:61:ASP:O	86:Az:17:GLN:OE1	2.32	0.47
39:AO:370:LYS:HE2	43:1:1638:C:OP2	2.12	0.47
40:AP:657:ALA:HB1	40:AP:662:ALA:HB2	1.96	0.47
43:1:135:C:C2	43:1:150:C:N4	2.83	0.47
43:1:272:A:H61	43:1:300:C:N4	2.10	0.47
43:1:510:G:C6	43:1:528:G:N1	2.82	0.47
43:1:762:A:O2'	43:1:765:A:N6	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:817:G:C2	43:1:948:A:C2	3.01	0.47
43:1:991:C:N4	43:1:992:G:O6	2.48	0.47
43:1:1108:A:O2'	43:1:1111:A:N6	2.47	0.47
43:1:1325:C:N3	43:1:1329:U:O2	2.47	0.47
43:1:1592:U:H1'	43:1:1617:A:C2	2.45	0.47
43:1:1888:C:C2	43:1:1890:G:C8	3.01	0.47
43:1:1948:G:C5	43:1:1952:C:C4	3.01	0.47
43:1:2189:G:H2'	43:1:2190:C:H6	1.78	0.47
43:1:2319:C:N4	43:1:2320:G:O6	2.47	0.47
43:1:2335:U:H2'	43:1:2336:C:H6	1.79	0.47
45:Bb:23:PHE:HE2	48:Bi:183:PHE:HD2	1.62	0.47
45:Bb:47:PRO:HB2	45:Bb:458:PHE:HZ	1.79	0.47
45:Bb:493:LEU:HA	45:Bb:494:LYS:NZ	2.29	0.47
46:Bf:67:GLY:CA	46:Bf:73:TYR:H	2.26	0.47
48:Bi:153:LYS:HG2	85:2:1117:U:C5	2.49	0.47
48:Bi:162:LEU:HD22	48:Bi:178:GLN:CD	2.40	0.47
52:Bw:315:ASP:O	52:Bw:317:THR:N	2.47	0.47
62:Bd:367:LYS:CE	62:Bd:380:TYR:HD2	2.05	0.47
62:Bd:476:ILE:HD13	85:2:557:A:C5	2.49	0.47
64:Bg:22:ALA:N	71:Bu:42:ASN:OD1	2.27	0.47
64:Bg:55:HIS:ND1	85:2:587:G:O2'	2.48	0.47
69:Bq:189:GLU:HG2	70:Bs:46:LYS:HG2	1.95	0.47
85:2:231:U:H4'	85:2:232:A:OP1	2.13	0.47
85:2:359:U:C2	85:2:369:G:N2	2.83	0.47
85:2:762:A:C6	85:2:811:A:C4	3.02	0.47
85:2:1190:C:O2'	85:2:1191:U:P	2.72	0.47
85:2:1376:A:O2'	85:2:1377:G:P	2.72	0.47
85:2:1583:G:C6	85:2:1584:C:C4	3.02	0.47
86:Az:69:VAL:O	86:Az:69:VAL:HG13	2.14	0.47
88:BK:129:ALA:HA	88:BK:132:ALA:HB3	1.96	0.47
88:BK:265:ALA:CB	88:BK:296:ALA:HB1	2.42	0.47
1:Aa:80:GLN:O	1:Aa:81:LYS:HB2	2.14	0.47
7:Af:79:GLU:OE1	7:Af:82:LYS:N	2.45	0.47
9:Ai:88:ILE:HG21	9:Ai:148:ILE:HD13	1.96	0.47
11:Ak:81:ASP:O	11:Ak:106:VAL:HG23	2.14	0.47
15:Ao:55:GLU:OE1	15:Ao:55:GLU:N	2.39	0.47
24:Ax:111:LEU:HD13	24:Ax:131:VAL:HG21	1.96	0.47
28:AC:41:LYS:HB2	28:AC:52:PHE:CE2	2.50	0.47
30:AF:148:ILE:H	30:AF:148:ILE:HD12	1.79	0.47
30:AF:201:PRO:O	30:AF:205:LYS:HG2	2.14	0.47
33:AI:163:VAL:HG23	33:AI:164:GLY:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:AO:201:ARG:HD2	39:AO:201:ARG:HA	1.67	0.47
41:AQ:164:GLU:HB3	41:AQ:168:LYS:NZ	2.29	0.47
43:1:113:U:C2	43:1:163:G:C2	3.02	0.47
43:1:315:U:O3'	43:1:420:A:H8	1.97	0.47
43:1:1388:C:H2'	43:1:1389:C:O4'	2.14	0.47
43:1:1462:G:N2	43:1:1958:A:N1	2.59	0.47
43:1:1477:U:C5	43:1:1486:U:H5'	2.49	0.47
43:1:1555:A:H61	43:1:1893:A:N6	2.12	0.47
43:1:1583:C:H2'	43:1:1584:C:C6	2.50	0.47
43:1:2174:G:N2	43:1:2195:A:O2'	2.47	0.47
43:1:2301:C:H2'	43:1:2302:U:C6	2.50	0.47
43:1:2817:U:C4	43:1:2839:A:C5	3.03	0.47
43:1:2881:G:C6	43:1:2882:U:O2	2.67	0.47
43:1:2929:A:H5'	43:1:2932:G:O6	2.14	0.47
45:Bb:399:MET:HA	45:Bb:402:ILE:HD12	1.96	0.47
48:Bi:135:ARG:HA	48:Bi:184:LYS:O	2.15	0.47
55:BA:40:PHE:HB2	55:BA:57:GLN:HG3	1.95	0.47
61:Bc:147:SER:N	61:Bc:150:ASP:OD2	2.47	0.47
62:Bd:365:VAL:C	62:Bd:366:LYS:HD2	2.39	0.47
71:Bu:52:GLU:HG2	71:Bu:90:LEU:CD2	2.42	0.47
71:Bu:109:GLU:O	71:Bu:112:SER:OG	2.23	0.47
76:BD:192:LEU:HB3	76:BD:200:TYR:CD2	2.48	0.47
76:BD:275:GLU:HG2	76:BD:276:GLY:N	2.29	0.47
85:2:70:U:H2'	85:2:71:C:C6	2.49	0.47
85:2:394:U:H2'	85:2:395:G:C8	2.45	0.47
85:2:519:C:OP1	89:Bk:69:GLY:N	2.47	0.47
85:2:703:A:H2'	85:2:704:C:C6	2.50	0.47
85:2:1121:U:HO2'	85:2:1122:C:H5	1.62	0.47
85:2:1171:G:O2'	85:2:1172:C:P	2.72	0.47
85:2:1372:G:O2'	85:2:1373:U:P	2.72	0.47
85:2:1374:C:O2'	85:2:1375:G:P	2.72	0.47
85:2:1375:G:O2'	85:2:1376:A:P	2.72	0.47
85:2:1399:G:C5	85:2:1400:C:C4	3.03	0.47
85:2:1520:U:H2'	85:2:1521:A:O4'	2.14	0.47
85:2:1903:A:C6	85:2:1926:G:C6	3.02	0.47
88:BK:154:ALA:H	88:BK:157:ALA:HB3	1.79	0.47
5:Ad:154:GLN:O	5:Ad:154:GLN:HG3	2.13	0.47
5:Ad:233:MET:HE3	5:Ad:233:MET:HB2	1.67	0.47
5:Ad:240:LEU:O	5:Ad:280:LEU:HD12	2.15	0.47
13:Am:78:LEU:HD13	13:Am:141:VAL:HG21	1.96	0.47
14:An:60:ALA:HA	14:An:77:PHE:HZ	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Av:200:ASP:OD1	22:Av:200:ASP:N	2.38	0.47
32:AH:96:VAL:O	43:1:1377:U:O2'	2.30	0.47
33:AI:213:LYS:HZ2	33:AI:215:GLU:C	2.22	0.47
38:AN:167:ALA:HA	38:AN:170:GLU:OE1	2.14	0.47
40:AP:159:ALA:HB1	40:AP:187:ALA:HB1	1.96	0.47
40:AP:675:ALA:HB2	40:AP:708:ALA:HB1	1.97	0.47
43:1:441:G:P	43:1:441:G:H8	2.37	0.47
43:1:1019:G:C5	43:1:1020:C:C4	3.02	0.47
43:1:1499:A:H2	43:1:1502:C:C6	2.32	0.47
43:1:1502:C:C2	43:1:1503:G:C8	3.03	0.47
43:1:1597:C:N3	43:1:1598:G:N1	2.62	0.47
43:1:1906:U:N3	43:1:1924:G:N1	2.59	0.47
43:1:1967:A:H2'	43:1:1968:G:O4'	2.14	0.47
43:1:2064:A:H2'	43:1:2065:A:H5'	1.97	0.47
43:1:2219:C:O2'	43:1:2220:A:H5'	2.14	0.47
43:1:3061:A:H2'	43:1:3062:U:H6	1.80	0.47
44:3:25:G:C4	44:3:59:G:C5	3.03	0.47
54:Bz:318:THR:HG23	54:Bz:345:ASP:HB2	1.97	0.47
59:BF:84:ALA:C	59:BF:86:ALA:H	2.23	0.47
61:Bc:60:LYS:NZ	62:Bd:366:LYS:HG3	2.29	0.47
77:BE:365:ALA:HB1	77:BE:368:TRP:CZ2	2.50	0.47
85:2:279:G:H2'	85:2:280:U:C2	2.49	0.47
85:2:315:U:H2'	85:2:316:U:C6	2.50	0.47
85:2:321:G:H2'	85:2:322:A:C8	2.43	0.47
85:2:458:U:O2'	85:2:459:U:OP2	2.25	0.47
85:2:477:U:H5''	85:2:478:G:OP2	2.14	0.47
85:2:687:U:H2'	85:2:689:A:N7	2.29	0.47
85:2:1161:G:O2'	85:2:1162:A:H5''	2.15	0.47
85:2:1178:G:O2'	85:2:1179:A:OP2	2.23	0.47
85:2:1206:G:C5	85:2:1381:G:O2'	2.65	0.47
85:2:1369:G:O2'	85:2:1370:A:P	2.72	0.47
85:2:1402:U:O2'	85:2:1403:U:H5''	2.14	0.47
85:2:1408:C:O2'	85:2:1409:G:C8	2.62	0.47
85:2:1456:G:O2'	85:2:1457:C:P	2.73	0.47
85:2:1600:A:C6	85:2:1601:A:N1	2.83	0.47
85:2:1714:G:C6	85:2:1715:C:C4	3.02	0.47
88:BK:197:ALA:CA	88:BK:200:ALA:HB3	2.36	0.47
89:Bk:93:VAL:O	89:Bk:93:VAL:HG13	2.12	0.47
7:Af:82:LYS:NZ	43:1:2960:C:OP1	2.32	0.47
9:Ai:49:ASP:O	9:Ai:53:ARG:HG2	2.14	0.47
9:Ai:143:ALA:HB1	9:Ai:148:ILE:HB	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Aj:162:ARG:NH1	43:1:1161:C:H5'	2.27	0.47
18:Ar:200:HIS:ND1	18:Ar:240:ASP:OD2	2.45	0.47
22:Av:156:VAL:O	22:Av:185:LYS:HA	2.14	0.47
23:Aw:84:ARG:HG2	23:Aw:103:THR:HG22	1.96	0.47
24:Ax:57:ASN:ND2	43:1:512:G:OP1	2.31	0.47
31:AG:46:PHE:HB2	31:AG:54:VAL:HB	1.95	0.47
34:Aj:22:CYS:O	34:Aj:26:LEU:HG	2.14	0.47
39:AO:184:LEU:HD21	39:AO:191:PRO:HD3	1.96	0.47
41:AQ:144:GLU:O	41:AQ:147:SER:N	2.32	0.47
43:1:67:G:N1	43:1:73:G:C2	2.83	0.47
43:1:146:U:C2	43:1:147:G:C8	3.03	0.47
43:1:174:G:H21	43:1:192:A:H62	1.62	0.47
43:1:235:G:C6	43:1:236:A:C6	3.02	0.47
43:1:693:C:H4'	43:1:694:G:C2	2.49	0.47
43:1:745:G:C2	43:1:746:A:C5	3.02	0.47
43:1:817:G:N1	43:1:951:U:O4	2.47	0.47
43:1:1607:G:O2'	43:1:1608:A:OP2	2.22	0.47
43:1:2120:A:H3'	43:1:2121:G:H8	1.79	0.47
43:1:2378:G:C6	43:1:2742:G:C6	3.03	0.47
43:1:2495:A:H3'	43:1:2496:C:C6	2.49	0.47
43:1:2532:G:H2'	43:1:2533:C:H6	1.80	0.47
43:1:2619:G:H5'	43:1:2620:A:OP2	2.14	0.47
43:1:2809:U:H2'	43:1:2810:C:C6	2.48	0.47
43:1:2950:A:H2'	43:1:2951:A:C8	2.49	0.47
43:1:3138:G:H2'	43:1:3139:U:C6	2.50	0.47
49:Bl:49:LEU:HG	49:Bl:55:ILE:HG13	1.95	0.47
51:Br:158:ILE:CG2	51:Br:160:SER:HB3	2.43	0.47
52:Bw:303:TYR:CE2	52:Bw:330:HIS:HB3	2.48	0.47
57:BG:261:GLU:N	57:BG:262:ALA:HA	2.29	0.47
61:Bc:103:LEU:HD12	61:Bc:110:ILE:HG12	1.96	0.47
61:Bc:121:PRO:HG2	85:2:425:A:H5''	1.97	0.47
73:By:99:VAL:H	73:By:107:ALA:HB3	1.78	0.47
74:BB:119:LYS:NZ	85:2:883:G:OP2	2.48	0.47
77:BE:103:ASP:HB3	77:BE:106:SER:OG	2.15	0.47
85:2:28:U:H2'	85:2:29:G:O4'	2.13	0.47
85:2:168:G:H2'	85:2:169:G:H8	1.79	0.47
85:2:743:U:H2'	85:2:744:A:C8	2.50	0.47
85:2:858:A:O2'	85:2:1070:U:O4	2.32	0.47
85:2:1127:A:C2'	85:2:1128:U:H5'	2.44	0.47
85:2:1167:A:C2	85:2:1168:G:N3	2.82	0.47
85:2:1216:C:HO2'	85:2:1217:G:P	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1384:G:HO2'	85:2:1385:C:P	2.38	0.47
85:2:1505:G:C6	85:2:1506:G:C4	3.02	0.47
85:2:1649:G:O3'	85:2:1650:U:H6	1.97	0.47
85:2:1743:A:H8	85:2:1743:A:OP1	1.97	0.47
85:2:1779:C:N3	85:2:1867:G:N1	2.62	0.47
3:Ac:121:PHE:CE2	3:Ac:161:GLU:HG2	2.50	0.47
5:Ad:211:LEU:HB2	5:Ad:281:LEU:CD1	2.44	0.47
17:Aq:20:CYS:SG	43:1:731:C:H5'	2.54	0.47
21:Au:145:GLU:HA	25:Ay:67:LEU:CG	2.44	0.47
33:Al:93:GLU:OE2	33:Al:97:ASN:ND2	2.47	0.47
33:Al:114:LEU:HD21	33:Al:216:LEU:HD13	1.96	0.47
38:AN:117:LYS:O	38:AN:119:ARG:HD3	2.15	0.47
39:AO:273:LEU:HA	39:AO:276:ARG:HG2	1.96	0.47
39:AO:433:LEU:HD21	39:AO:468:ARG:HH11	1.79	0.47
40:AP:121:ALA:HA	40:AP:124:ALA:HB3	1.95	0.47
41:AQ:468:ARG:O	41:AQ:471:PRO:HD2	2.15	0.47
43:1:59:U:H4'	43:1:60:U:OP1	2.14	0.47
43:1:428:U:C4	43:1:429:G:C6	3.02	0.47
43:1:523:A:H2	43:1:552:G:C2	2.33	0.47
43:1:583:G:C6	43:1:585:C:C4	3.02	0.47
43:1:601:A:C4	43:1:611:A:C6	3.02	0.47
43:1:618:A:HO2'	43:1:619:A:P	2.36	0.47
43:1:1205:G:H5''	43:1:1206:A:C5'	2.45	0.47
43:1:1227:U:H4'	43:1:1228:C:H6	1.79	0.47
43:1:1979:C:H2'	43:1:1980:G:H8	1.80	0.47
43:1:2126:A:H2'	43:1:2127:A:C8	2.49	0.47
43:1:2170:A:C5	43:1:2200:A:N6	2.83	0.47
43:1:2373:A:O2'	43:1:2374:C:H6	1.93	0.47
43:1:2434:G:H2'	43:1:2435:G:N7	2.30	0.47
43:1:2584:G:C2	43:1:2723:A:C5	3.02	0.47
43:1:2604:U:O4	43:1:2605:A:N6	2.47	0.47
43:1:2778:C:H2'	43:1:2779:G:O4'	2.14	0.47
45:Bb:494:LYS:HA	45:Bb:495:ASP:HA	1.58	0.47
46:Bf:33:TYR:O	46:Bf:36:PHE:HB2	2.14	0.47
46:Bf:120:GLN:HE21	46:Bf:122:ARG:HG3	1.79	0.47
47:Bh:361:TRP:HZ3	47:Bh:387:LEU:HD22	1.79	0.47
48:Bi:169:PRO:HG2	85:2:1552:G:C8	2.49	0.47
52:Bw:455:GLU:C	52:Bw:457:ASN:N	2.70	0.47
53:Bx:37:SER:C	53:Bx:39:HIS:H	2.22	0.47
61:Bc:195:LYS:HE3	84:BL:62:ALA:HB2	1.97	0.47
62:Bd:370:LYS:HB2	85:2:1072:A:O3'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:Bd:392:ILE:HG22	62:Bd:418:LEU:HD13	1.96	0.47
65:Bj:207:VAL:HG11	65:Bj:246:ILE:HG21	1.97	0.47
69:Bq:214:LYS:HE2	85:2:714:C:H42	1.80	0.47
69:Bq:217:ARG:HH12	85:2:669:G:C1'	2.28	0.47
85:2:252:C:H2'	85:2:253:C:H6	1.77	0.47
85:2:447:U:OP2	85:2:448:G:O2'	2.27	0.47
85:2:853:C:H2'	85:2:854:A:O4'	2.14	0.47
85:2:1185:C:O2'	85:2:1186:A:P	2.72	0.47
7:Af:44:ALA:HB1	7:Af:61:ASP:HB2	1.97	0.47
9:Ai:18:ARG:HG3	9:Ai:66:THR:OG1	2.15	0.47
11:Ak:156:GLU:N	11:Ak:156:GLU:CD	2.72	0.47
13:Am:63:LEU:HD13	13:Am:178:TRP:HA	1.97	0.47
15:Ao:97:GLY:O	15:Ao:100:LYS:N	2.47	0.47
17:Aq:69:ILE:O	17:Aq:73:MET:HG3	2.15	0.47
18:Ar:193:ILE:HG22	86:Az:90:LEU:CD2	2.31	0.47
19:As:114:LYS:NZ	43:1:1478:U:O3'	2.47	0.47
21:Au:139:PRO:O	21:Au:142:PHE:N	2.34	0.47
25:Ay:74:GLN:O	25:Ay:77:TRP:HB3	2.15	0.47
30:AF:178:GLU:O	30:AF:181:GLU:HB3	2.14	0.47
32:AH:7:TRP:CG	32:AH:43:GLN:HG3	2.49	0.47
34:AJ:21:SER:HA	34:AJ:24:GLU:OE1	2.15	0.47
36:AL:57:CYS:SG	86:Az:59:ARG:HD2	2.53	0.47
36:AL:72:LYS:HA	36:AL:72:LYS:HD2	1.76	0.47
39:AO:70:LEU:HB3	39:AO:73:PRO:HD2	1.95	0.47
39:AO:287:TRP:HD1	39:AO:305:MET:HG3	1.80	0.47
39:AO:467:ARG:HE	41:AQ:242:PHE:H	1.62	0.47
40:AP:579:ALA:O	40:AP:584:ALA:N	2.29	0.47
40:AP:722:ALA:HA	40:AP:726:ALA:HB2	1.97	0.47
41:AQ:127:LEU:HD22	41:AQ:152:TYR:CD2	2.50	0.47
43:1:166:A:C2	43:1:167:A:C4	3.03	0.47
43:1:504:U:H2'	43:1:505:A:H8	1.79	0.47
43:1:575:U:O2	43:1:576:C:N4	2.48	0.47
43:1:718:U:O2'	43:1:720:G:N7	2.27	0.47
43:1:817:G:N1	43:1:951:U:C4	2.82	0.47
43:1:851:A:H2'	43:1:852:G:H8	1.80	0.47
43:1:853:A:H2'	43:1:854:G:H8	1.78	0.47
43:1:888:U:H3	43:1:898:U:H3	1.61	0.47
43:1:1019:G:C6	43:1:1020:C:N3	2.83	0.47
43:1:1052:A:C6	43:1:1053:G:C6	3.03	0.47
43:1:1232:U:H2'	43:1:1234:A:OP1	2.15	0.47
43:1:1300:C:C4	43:1:1301:A:N7	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1668:U:H1'	43:1:1669:G:H5'	1.97	0.47
43:1:1872:A:C2	43:1:1873:G:C5	3.02	0.47
43:1:2019:C:H2'	43:1:2020:C:C6	2.49	0.47
43:1:2049:U:HO2'	43:1:2050:A:C5'	2.26	0.47
43:1:2312:A:H5''	43:1:2313:U:OP2	2.15	0.47
43:1:2408:A:C5	43:1:2409:C:C5	3.03	0.47
43:1:2434:G:H2'	43:1:2435:G:C8	2.49	0.47
43:1:2487:G:O2'	43:1:2488:G:OP1	2.30	0.47
43:1:2591:G:C2	43:1:2592:G:C5	3.02	0.47
43:1:2592:G:H2'	43:1:2593:U:C6	2.50	0.47
43:1:2628:G:C6	43:1:2684:A:N1	2.83	0.47
43:1:2691:U:H2'	43:1:2692:C:C6	2.50	0.47
43:1:2905:G:H2'	43:1:2906:G:O4'	2.15	0.47
43:1:2944:G:C4	43:1:2945:G:C8	3.02	0.47
43:1:2986:U:C2	43:1:2987:G:C8	3.03	0.47
44:3:67:C:H2'	44:3:68:U:C6	2.50	0.47
45:Bb:492:ARG:HD3	45:Bb:530:TYR:O	2.14	0.47
50:Bm:116:ARG:HH11	85:2:1569:U:H4'	1.80	0.47
51:Br:197:GLY:O	51:Br:200:ALA:N	2.48	0.47
52:Bw:246:TRP:HE1	52:Bw:387:VAL:HG13	1.80	0.47
52:Bw:372:THR:OG1	52:Bw:373:PRO:HD3	2.14	0.47
52:Bw:461:ILE:O	52:Bw:464:LEU:HB3	2.15	0.47
52:Bw:461:ILE:HG12	52:Bw:476:ALA:HA	1.97	0.47
60:Ba:91:SER:HB3	60:Ba:94:HIS:HB2	1.96	0.47
60:Ba:123:LEU:HD23	60:Ba:125:PHE:HE2	1.77	0.47
62:Bd:298:ARG:HH22	81:BN:68:ALA:HA	1.79	0.47
62:Bd:331:LEU:O	62:Bd:334:GLU:HB3	2.14	0.47
63:Be:52:ILE:O	63:Be:59:HIS:HB3	2.13	0.47
63:Be:88:LEU:HD11	63:Be:91:TRP:N	2.30	0.47
64:Bg:105:THR:HG22	64:Bg:121:GLY:O	2.15	0.47
67:Bo:53:GLY:H	76:BD:330:GLU:CD	2.22	0.47
67:Bo:75:ARG:HA	67:Bo:79:ARG:NH1	2.30	0.47
71:Bu:99:GLU:HG3	71:Bu:102:ALA:CB	2.43	0.47
72:Bv:131:ALA:O	72:Bv:135:PHE:HB2	2.15	0.47
73:By:89:ASP:HB3	73:By:91:ARG:HH11	1.79	0.47
85:2:25:U:H2'	85:2:26:U:H6	1.80	0.47
85:2:39:G:C5	85:2:325:A:H1'	2.50	0.47
85:2:59:A:N1	85:2:180:A:C4	2.83	0.47
85:2:189:U:H2'	85:2:190:G:H8	1.80	0.47
85:2:311:G:O2'	85:2:606:A:N6	2.48	0.47
85:2:368:G:H2'	85:2:369:G:H8	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:435:G:H2'	85:2:436:G:C8	2.50	0.47
85:2:483:G:H3'	85:2:484:A:H8	1.80	0.47
85:2:514:G:N1	85:2:530:A:OP1	2.42	0.47
85:2:715:C:OP2	85:2:716:A:O2'	2.29	0.47
85:2:738:G:H2'	85:2:739:U:C6	2.50	0.47
85:2:998:A:C5	85:2:1028:A:N1	2.83	0.47
85:2:1023:U:H2'	85:2:1024:A:O4'	2.15	0.47
85:2:1097:A:H2'	85:2:1098:G:C8	2.48	0.47
85:2:1104:C:H5'	85:2:1105:C:OP2	2.14	0.47
85:2:1368:C:O2'	85:2:1369:G:P	2.72	0.47
85:2:1389:G:O2'	85:2:1390:A:H8	1.97	0.47
85:2:1392:A:O2'	85:2:1393:G:H8	1.97	0.47
85:2:1397:C:HO2'	85:2:1398:G:H8	1.61	0.47
85:2:1455:U:O2'	85:2:1456:G:H8	1.97	0.47
85:2:1456:G:C6	85:2:1457:C:N4	2.83	0.47
85:2:1495:C:O2'	85:2:1496:A:H5''	2.14	0.47
85:2:1505:G:H2'	85:2:1506:G:O4'	2.15	0.47
85:2:1639:G:C4	85:2:1640:A:C8	3.03	0.47
85:2:1757:A:C6	85:2:1758:C:C5	3.03	0.47
85:2:1819:A:H2	85:2:1827:G:C6	2.32	0.47
1:Aa:90:ALA:HB3	1:Aa:91:PRO:HD3	1.97	0.47
3:Ac:199:ARG:CZ	3:Ac:237:ALA:HB3	2.44	0.47
5:Ad:222:LYS:HZ2	43:1:453:A:P	2.38	0.47
11:Ak:112:GLN:HA	11:Ak:122:ARG:HB3	1.97	0.47
12:Al:76:LYS:NZ	43:1:805:C:H1'	2.30	0.47
18:Ar:145:GLN:HB2	18:Ar:150:GLN:NE2	2.29	0.47
21:Au:146:GLN:NE2	25:Ay:72:ASP:OD2	2.48	0.47
24:Ax:65:ASN:HD22	43:1:2391:A:H4'	1.78	0.47
38:AN:148:ARG:NH2	43:1:1659:U:OP1	2.47	0.47
39:AO:65:LEU:O	39:AO:70:LEU:N	2.48	0.47
39:AO:406:TRP:CH2	39:AO:408:PRO:HB3	2.50	0.47
43:1:253:G:H2'	43:1:254:A:C8	2.50	0.47
43:1:606:G:N2	43:1:827:G:H1'	2.22	0.47
43:1:807:U:O2'	43:1:1087:C:OP1	2.21	0.47
43:1:940:U:H2'	43:1:941:C:C6	2.50	0.47
43:1:1004:U:C4	43:1:2570:A:C8	3.02	0.47
43:1:1125:G:H5''	43:1:1126:G:OP2	2.14	0.47
43:1:1132:A:N7	43:1:1133:G:C5	2.83	0.47
43:1:1333:U:H2'	43:1:1334:C:O4'	2.15	0.47
43:1:1495:A:H2'	43:1:1496:G:O4'	2.15	0.47
43:1:1663:A:N6	43:1:1881:A:C5	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1876:G:C2	43:1:1877:G:C5	3.03	0.47
43:1:1909:G:O2'	43:1:1910:A:H8	1.98	0.47
43:1:2093:G:C6	43:1:2106:A:N1	2.83	0.47
43:1:2491:C:H2'	43:1:2492:C:H6	1.80	0.47
43:1:2670:G:C2	43:1:2671:A:C5	3.02	0.47
43:1:2812:U:H2'	43:1:2813:C:H6	1.80	0.47
45:Bb:490:SER:OG	45:Bb:502:THR:HG22	2.15	0.47
46:Bf:86:THR:O	46:Bf:90:ARG:NH2	2.48	0.47
47:Bh:320:TRP:O	47:Bh:363:ILE:HA	2.14	0.47
62:Bd:429:ILE:H	62:Bd:471:ILE:HD11	1.79	0.47
63:Be:73:PRO:C	63:Be:75:MET:H	2.21	0.47
65:Bj:286:ARG:HG3	65:Bj:287:SER:H	1.78	0.47
67:Bo:87:PRO:HD3	72:Bv:73:TYR:CE2	2.49	0.47
72:Bv:67:ALA:HA	72:Bv:70:ARG:NE	2.30	0.47
72:Bv:150:TRP:HA	72:Bv:150:TRP:HE3	1.78	0.47
76:BD:195:GLU:C	76:BD:197:PRO:HD3	2.39	0.47
85:2:1001:A:H3'	85:2:1002:A:C8	2.48	0.47
85:2:1137:G:C6	85:2:1138:G:C6	3.02	0.47
85:2:1164:C:O2	85:2:1164:C:C2'	2.62	0.47
85:2:1174:G:O2'	85:2:1175:A:P	2.72	0.47
85:2:1498:U:H2'	85:2:1499:C:C6	2.49	0.47
85:2:1791:A:C5	85:2:1792:A:C6	3.03	0.47
85:2:1902:U:O2'	85:2:1903:A:H5'	2.15	0.47
86:Az:22:THR:HG22	86:Az:71:VAL:HG23	1.91	0.47
3:Ac:181:TYR:HB3	3:Ac:249:ASN:O	2.15	0.47
7:Af:34:SER:OG	43:1:2955:U:O2	2.23	0.47
12:Al:127:LYS:CD	43:1:229:A:H5''	2.41	0.47
17:Aq:76:ASN:CB	86:Az:91:ARG:HH11	2.27	0.47
19:As:103:ARG:HH11	19:As:164:ASN:ND2	2.13	0.47
22:Av:90:ILE:HG12	22:Av:143:LEU:HD21	1.97	0.47
28:AC:43:ASP:O	28:AC:47:ASN:N	2.45	0.47
33:AI:35:ARG:HH21	33:AI:37:ARG:HA	1.80	0.47
39:AO:178:PRO:O	39:AO:182:GLN:HG2	2.14	0.47
39:AO:396:VAL:HG12	39:AO:406:TRP:CZ3	2.50	0.47
39:AO:484:LEU:O	39:AO:487:VAL:HG22	2.15	0.47
43:1:492:G:C5'	43:1:495:C:H41	2.28	0.47
43:1:957:U:H2'	43:1:958:C:C6	2.49	0.47
43:1:959:C:C2	43:1:1349:G:C2	3.03	0.47
43:1:1119:U:H1'	43:1:1134:C:P	2.54	0.47
43:1:1281:U:H2'	43:1:1282:A:C8	2.50	0.47
43:1:2065:A:HO2'	43:1:2066:A:H8	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2088:C:H2'	43:1:2089:G:O4'	2.15	0.47
43:1:2093:G:C2	43:1:2106:A:C2	3.02	0.47
43:1:2147:C:H2'	43:1:2148:A:C8	2.48	0.47
43:1:2581:G:N1	43:1:2582:G:C5	2.83	0.47
43:1:2841:G:C2	43:1:3060:A:C8	3.03	0.47
43:1:2990:G:OP1	43:1:3015:C:N4	2.48	0.47
43:1:2995:G:C2	43:1:2996:G:C8	3.03	0.47
46:Bf:126:ARG:NE	46:Bf:129:ARG:HH21	2.13	0.47
56:Bt:69:ARG:HG3	56:Bt:70:GLY:N	2.19	0.47
61:Bc:27:GLY:HA3	61:Bc:50:ARG:NH1	2.30	0.47
61:Bc:87:MET:HE2	61:Bc:87:MET:HB3	1.83	0.47
61:Bc:121:PRO:C	85:2:425:A:H4'	2.40	0.47
62:Bd:455:ALA:HB1	62:Bd:459:VAL:HG13	1.96	0.47
62:Bd:509:VAL:HG22	76:BD:271:LYS:O	2.15	0.47
63:Be:40:ILE:HG21	72:Bv:182:GLU:HG2	1.96	0.47
77:BE:227:LEU:O	77:BE:230:ILE:HG22	2.15	0.47
77:BE:233:ARG:HH22	77:BE:251:GLN:HB3	1.80	0.47
78:BI:63:ALA:O	78:BI:67:ALA:CB	2.52	0.47
85:2:77:U:C4	85:2:78:U:C4	3.02	0.47
85:2:158:A:H3'	85:2:233:A:H61	1.80	0.47
85:2:368:G:C2	85:2:369:G:C4	3.02	0.47
85:2:646:C:O2'	85:2:647:U:H5'	2.15	0.47
85:2:1024:A:O2'	85:2:1025:C:H5'	2.15	0.47
85:2:1172:C:O2'	85:2:1173:C:P	2.72	0.47
85:2:1172:C:N3	85:2:1173:C:C4	2.83	0.47
85:2:1432:A:O2'	85:2:1433:A:C8	2.63	0.47
85:2:1435:U:O2'	85:2:1436:A:P	2.72	0.47
85:2:1579:A:H2'	85:2:1580:C:O4'	2.14	0.47
85:2:1788:C:O2'	85:2:1789:G:H8	1.98	0.47
85:2:1903:A:C4	85:2:1926:G:C2	3.03	0.47
87:Ah:121:TYR:CD1	87:Ah:126:TYR:CA	2.78	0.47
2:Ab:64:PRO:HA	2:Ab:122:CYS:O	2.15	0.47
3:Ac:88:ALA:HB3	16:Ap:168:ASN:HD21	1.80	0.47
3:Ac:101:ILE:HG13	3:Ac:263:TRP:HD1	1.78	0.47
6:Ae:53:MET:HB3	6:Ae:60:LYS:NZ	2.29	0.47
11:Ak:120:GLU:O	16:Ap:185:MET:N	2.44	0.47
12:Al:183:ALA:C	12:Al:185:ASP:H	2.21	0.47
12:Al:200:ARG:HB3	43:1:788:G:C2	2.49	0.47
13:Am:60:GLY:HA3	22:Av:133:ARG:O	2.15	0.47
22:Av:160:VAL:HG23	22:Av:160:VAL:O	2.15	0.47
24:Ax:74:ASN:HB2	43:1:529:A:C5'	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Ay:69:SER:OG	25:Ay:70:TRP:N	2.46	0.47
25:Ay:77:TRP:CZ3	25:Ay:114:MET:HB3	2.48	0.47
25:Ay:99:MET:SD	25:Ay:99:MET:N	2.88	0.47
30:AF:197:ILE:C	30:AF:205:LYS:HZ3	2.22	0.47
34:AJ:74:SER:O	34:AJ:77:SER:OG	2.33	0.47
36:AL:43:ARG:HH21	44:3:88:U:P	2.37	0.47
36:AL:55:ARG:NH2	44:3:93:C:O3'	2.45	0.47
37:AM:87:GLY:O	37:AM:88:LEU:HD12	2.14	0.47
40:AP:666:ALA:O	40:AP:670:ALA:CA	2.63	0.47
43:1:158:A:H2'	43:1:158:A:OP2	2.15	0.47
43:1:469:C:N3	43:1:470:C:C4	2.83	0.47
43:1:692:G:N2	43:1:693:C:H41	2.12	0.47
43:1:762:A:H3'	43:1:762:A:N3	2.30	0.47
43:1:902:G:C2	43:1:903:G:C5	3.03	0.47
43:1:1193:G:C2	43:1:1261:G:C2	3.03	0.47
43:1:1453:C:C2	43:1:1454:C:C5	3.03	0.47
43:1:1835:G:N1	43:1:1863:U:O2	2.48	0.47
43:1:1876:G:O2'	43:1:1877:G:H8	1.97	0.47
43:1:2349:G:C2	43:1:2350:A:C4	3.03	0.47
43:1:2354:C:N3	43:1:3072:U:N3	2.63	0.47
43:1:2824:G:H2'	43:1:2825:U:O4'	2.15	0.47
43:1:3004:G:C6	43:1:3005:C:C4	3.03	0.47
44:3:31:A:H2'	44:3:32:C:H6	1.79	0.47
44:3:97:A:H2'	44:3:98:G:C8	2.50	0.47
46:Bf:45:ASP:CG	46:Bf:47:ILE:HG22	2.39	0.47
47:Bh:306:ALA:CB	47:Bh:321:ILE:O	2.56	0.47
49:Bl:58:ARG:NH1	56:Bt:54:LYS:HD3	2.29	0.47
52:Bw:155:PRO:HG2	52:Bw:276:LYS:HE2	1.96	0.47
52:Bw:394:MET:HE1	52:Bw:401:GLY:H	1.80	0.47
61:Bc:125:GLN:HG3	61:Bc:129:HIS:CE1	2.50	0.47
63:Be:15:ARG:HA	63:Be:15:ARG:HD2	1.65	0.47
63:Be:51:GLY:HA2	63:Be:59:HIS:HB2	1.96	0.47
64:Bg:85:ILE:HG21	64:Bg:112:HIS:HB2	1.96	0.47
64:Bg:103:ILE:HD11	64:Bg:121:GLY:C	2.40	0.47
65:Bj:215:ASN:O	65:Bj:217:LYS:HG3	2.15	0.47
66:Bn:344:SER:OG	72:Bv:146:LYS:NZ	2.38	0.47
67:Bo:20:VAL:HG22	67:Bo:37:LEU:HB2	1.97	0.47
72:Bv:67:ALA:HA	72:Bv:70:ARG:HE	1.80	0.47
75:BC:98:TYR:C	75:BC:101:GLY:H	2.22	0.47
85:2:28:U:C2	85:2:29:G:C8	3.03	0.47
85:2:48:C:H2'	85:2:49:U:C6	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:742:C:C2	85:2:743:U:H1'	2.50	0.47
85:2:807:C:C2	85:2:808:C:C6	3.03	0.47
85:2:929:C:C2	85:2:930:A:C8	3.03	0.47
85:2:1073:G:H2'	85:2:1074:A:H8	1.80	0.47
85:2:1190:C:O2'	85:2:1191:U:H6	1.98	0.47
89:Bk:107:ILE:HG12	89:Bk:117:TYR:HB3	1.96	0.47
1:Aa:62:ASP:HB2	1:Aa:69:ILE:HG12	1.97	0.46
18:Ar:185:SER:H	18:Ar:186:GLN:CD	2.23	0.46
18:Ar:227:ARG:HG2	18:Ar:228:GLY:H	1.81	0.46
21:Au:55:LYS:O	21:Au:67:ILE:HA	2.15	0.46
32:AH:45:GLU:N	32:AH:45:GLU:OE2	2.48	0.46
33:AI:150:LEU:O	33:AI:153:VAL:HG12	2.14	0.46
37:AM:99:LYS:HA	37:AM:102:ARG:HG2	1.98	0.46
39:AO:97:LEU:HD23	39:AO:128:SER:HB3	1.96	0.46
39:AO:370:LYS:HE2	43:1:1638:C:P	2.55	0.46
40:AP:670:ALA:HA	43:1:496:C:P	2.50	0.46
41:AQ:140:SER:O	41:AQ:143:ASP:HB3	2.15	0.46
41:AQ:440:CYS:HB2	41:AQ:473:PHE:HB2	1.97	0.46
43:1:65:A:C4	43:1:66:G:C2	3.03	0.46
43:1:141:U:H4'	43:1:141:U:OP1	2.14	0.46
43:1:563:A:C6	43:1:564:A:C5	3.03	0.46
43:1:1166:A:N1	43:1:1296:G:C6	2.83	0.46
43:1:1292:A:C5	43:1:1294:G:C8	3.03	0.46
43:1:1595:A:O2'	43:1:1596:G:OP2	2.29	0.46
43:1:1664:A:N1	43:1:1665:C:C4	2.83	0.46
43:1:2044:U:H2'	43:1:2045:C:C6	2.50	0.46
43:1:2176:A:C8	43:1:2177:G:H8	2.33	0.46
43:1:2777:U:H2'	43:1:2778:C:O4'	2.15	0.46
43:1:3049:G:O2'	43:1:3050:C:OP1	2.31	0.46
43:1:3111:A:H2'	43:1:3112:G:H8	1.79	0.46
45:Bb:506:LYS:NZ	45:Bb:510:THR:OG1	2.49	0.46
49:Bl:58:ARG:CB	85:2:1677:C:H5''	2.45	0.46
51:Br:185:CYS:CB	51:Br:199:PHE:HB2	2.40	0.46
74:BB:112:SER:O	74:BB:116:LYS:HB2	2.16	0.46
85:2:76:G:C2	85:2:77:U:C4	3.03	0.46
85:2:162:C:O2'	85:2:163:A:C8	2.69	0.46
85:2:344:A:C5	85:2:345:G:C5	3.03	0.46
85:2:559:G:N3	89:Bk:13:GLU:O	2.46	0.46
85:2:559:G:C8	89:Bk:15:LYS:N	2.83	0.46
85:2:627:U:H5''	85:2:628:G:C8	2.50	0.46
85:2:676:G:H2'	85:2:677:U:C6	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:690:A:H61	85:2:783:G:N2	2.04	0.46
85:2:1050:G:C6	85:2:1051:C:C4	3.03	0.46
85:2:1113:U:H2'	85:2:1114:G:C8	2.50	0.46
85:2:1175:A:O2'	85:2:1176:G:H8	1.97	0.46
85:2:1390:A:H3'	85:2:1391:A:P	2.55	0.46
85:2:1447:G:O2'	85:2:1448:U:H6	1.99	0.46
85:2:1766:G:C6	85:2:1878:G:C6	3.03	0.46
86:Az:63:ASP:OD1	86:Az:63:ASP:O	2.33	0.46
1:Aa:22:ARG:NE	1:Aa:28:ILE:HG12	2.31	0.46
2:Ab:112:SER:OG	43:1:2116:G:O6	2.33	0.46
3:Ac:128:GLY:HA3	3:Ac:152:ARG:HB3	1.96	0.46
10:Aj:85:LYS:NZ	43:1:1289:C:H5''	2.30	0.46
10:Aj:93:TRP:HE1	10:Aj:102:LYS:HD2	1.80	0.46
12:Al:214:ARG:HB2	12:Al:251:LYS:CB	2.44	0.46
15:Ao:26:THR:HG21	44:3:30:C:OP1	2.15	0.46
18:Ar:141:PHE:HA	18:Ar:153:VAL:O	2.15	0.46
26:AA:68:GLU:HG2	26:AA:68:GLU:O	2.15	0.46
33:AI:217:LEU:HA	33:AI:220:PHE:O	2.15	0.46
34:AJ:6:SER:OG	34:AJ:7:LYS:N	2.43	0.46
37:AM:98:LEU:HA	37:AM:101:MET:HE3	1.98	0.46
39:AO:82:GLU:HA	39:AO:85:GLY:O	2.14	0.46
39:AO:455:TYR:CZ	39:AO:465:MET:HE3	2.50	0.46
40:AP:194:ALA:C	40:AP:200:ALA:HB3	2.40	0.46
43:1:129:A:C6	43:1:130:A:C6	3.02	0.46
43:1:716:U:H4'	43:1:953:G:OP2	2.16	0.46
43:1:836:A:O2'	43:1:1510:A:N3	2.44	0.46
43:1:1241:C:H2'	43:1:1242:G:O4'	2.15	0.46
43:1:1431:A:N1	43:1:1451:C:O2'	2.31	0.46
43:1:1585:U:HO2'	43:1:1586:C:P	2.34	0.46
43:1:1873:G:HO2'	43:1:1874:A:P	2.38	0.46
43:1:1965:A:H2'	43:1:1966:G:O4'	2.16	0.46
43:1:2190:C:C4	43:1:2191:U:C4	3.03	0.46
43:1:2259:G:C6	43:1:2270:G:C6	3.04	0.46
43:1:2963:G:H2'	43:1:2964:A:C8	2.50	0.46
43:1:3022:C:H5''	43:1:3023:A:OP2	2.14	0.46
44:3:6:G:H2'	44:3:7:G:C8	2.50	0.46
46:Bf:27:ARG:HE	85:2:1590:U:H4'	1.79	0.46
49:Bl:58:ARG:HB3	85:2:1677:C:H5''	1.97	0.46
61:Bc:319:LEU:HD23	61:Bc:320:GLU:O	2.15	0.46
66:Bn:341:PHE:HE2	66:Bn:409:LEU:HD11	1.80	0.46
73:By:60:LEU:CB	73:By:64:GLY:HA3	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:41:A:H2	89:Bk:29:GLN:HE22	1.61	0.46
85:2:220:C:H2'	85:2:221:U:H6	1.79	0.46
85:2:260:G:H2'	85:2:261:U:O4'	2.15	0.46
85:2:1477:A:H1'	85:2:1478:C:O4'	2.14	0.46
85:2:1515:U:H2'	85:2:1516:G:O4'	2.14	0.46
85:2:1819:A:C8	85:2:1820:C:C4	3.03	0.46
85:2:1919:G:H2'	85:2:1920:U:O4'	2.14	0.46
88:BK:116:ALA:HA	88:BK:121:ALA:CB	2.45	0.46
4:AD:121:ARG:HH12	43:1:235:G:P	2.39	0.46
6:Ae:32:CYS:H	6:Ae:161:THR:HA	1.80	0.46
6:Ae:147:GLU:H	6:Ae:147:GLU:CD	2.22	0.46
11:Ak:143:GLN:OE1	11:Ak:164:LYS:HE3	2.16	0.46
12:Al:160:LYS:HB2	12:Al:225:LEU:HD21	1.97	0.46
23:Aw:83:VAL:HG22	23:Aw:104:LEU:HB2	1.97	0.46
32:AH:55:HIS:ND1	32:AH:100:LYS:HD3	2.30	0.46
33:AI:213:LYS:NZ	33:AI:217:LEU:H	2.00	0.46
39:AO:256:GLU:CD	39:AO:266:ALA:HB2	2.40	0.46
39:AO:335:ARG:NH2	43:1:1637:C:O2	2.48	0.46
39:AO:344:TYR:CZ	39:AO:352:LYS:HE3	2.51	0.46
43:1:31:A:C6	43:1:32:U:N3	2.83	0.46
43:1:57:G:H2'	43:1:58:C:C6	2.51	0.46
43:1:181:A:H61	43:1:975:G:H21	1.63	0.46
43:1:226:A:N6	43:1:240:A:C8	2.82	0.46
43:1:598:A:H2	43:1:599:G:H21	1.61	0.46
43:1:713:A:C6	43:1:2329:G:C4	3.03	0.46
43:1:978:G:C6	43:1:979:A:N7	2.84	0.46
43:1:1659:U:O2'	43:1:1660:A:H5'	2.15	0.46
43:1:1892:A:C6	43:1:1893:A:N1	2.84	0.46
43:1:2102:A:C8	43:1:2104:A:N7	2.83	0.46
43:1:2166:A:H2'	43:1:2167:G:C8	2.50	0.46
43:1:2267:A:C4	43:1:2268:G:C8	3.04	0.46
43:1:2823:G:H2'	43:1:2824:G:H8	1.81	0.46
43:1:2879:G:H22	43:1:2908:U:C2'	2.29	0.46
43:1:3130:C:N4	43:1:3131:G:O6	2.49	0.46
52:Bw:244:ARG:HA	52:Bw:247:THR:CG2	2.45	0.46
62:Bd:387:GLY:HA3	62:Bd:465:LEU:HD13	1.96	0.46
63:Be:19:LEU:HD22	63:Be:87:LYS:HE2	1.97	0.46
64:Bg:36:PHE:CE2	64:Bg:102:VAL:HG11	2.50	0.46
65:Bj:257:SER:O	65:Bj:257:SER:OG	2.34	0.46
67:Bo:53:GLY:N	76:BD:330:GLU:OE2	2.45	0.46
68:Bp:32:ARG:CB	89:Bk:8:ILE:CD1	2.92	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:Bq:217:ARG:C	69:Bq:217:ARG:HD3	2.41	0.46
73:By:118:LYS:NZ	85:2:75:C:OP1	2.31	0.46
77:BE:157:LEU:HD22	77:BE:188:TYR:CD1	2.50	0.46
85:2:186:G:C6	85:2:187:C:C4	3.03	0.46
85:2:224:A:H5''	85:2:225:G:H5''	1.96	0.46
85:2:392:A:C2	85:2:393:A:C8	3.03	0.46
85:2:684:G:C2	85:2:694:U:C2	3.04	0.46
85:2:940:G:H2'	85:2:941:C:O4'	2.15	0.46
85:2:1007:A:N1	85:2:1021:G:C6	2.83	0.46
85:2:1060:G:N2	85:2:1100:G:H1'	2.30	0.46
85:2:1215:A:O2'	85:2:1216:C:C6	2.57	0.46
85:2:1406:G:H4'	88:BK:18:ALA:HB2	1.98	0.46
85:2:1652:C:N4	85:2:1653:G:C2	2.83	0.46
3:Ac:259:ARG:HD2	3:Ac:259:ARG:HA	1.74	0.46
6:Ae:165:THR:O	6:Ae:169:THR:HG23	2.15	0.46
16:Ap:128:ARG:HG3	16:Ap:129:GLU:N	2.31	0.46
22:Av:39:ILE:HG21	22:Av:57:ARG:NH1	2.31	0.46
30:AF:183:ARG:HH22	44:3:57:G:N2	2.13	0.46
30:AF:190:LEU:HD21	30:AF:194:LYS:NZ	2.30	0.46
33:AI:143:ARG:NH1	33:AI:162:PHE:HB2	2.31	0.46
33:AI:147:GLU:HB2	33:AI:162:PHE:CE1	2.51	0.46
39:AO:396:VAL:HA	39:AO:406:TRP:HE3	1.80	0.46
40:AP:672:ALA:H	40:AP:704:ALA:HB1	1.80	0.46
41:AQ:144:GLU:HG2	41:AQ:176:LYS:HG2	1.97	0.46
41:AQ:335:ILE:HG23	41:AQ:337:ARG:HB2	1.98	0.46
43:1:137:U:O2	43:1:147:G:C2	2.68	0.46
43:1:150:C:C4	43:1:151:U:C4	3.04	0.46
43:1:237:G:H8	43:1:237:G:OP2	1.98	0.46
43:1:461:U:H3'	43:1:462:G:H5''	1.98	0.46
43:1:470:C:H2'	43:1:471:G:O4'	2.16	0.46
43:1:551:G:C2	43:1:2705:G:N7	2.83	0.46
43:1:782:A:H8	43:1:782:A:OP1	1.98	0.46
43:1:827:G:C2	43:1:938:G:C2	3.03	0.46
43:1:851:A:H2'	43:1:852:G:C8	2.51	0.46
43:1:856:U:O2'	43:1:863:G:N2	2.49	0.46
43:1:1057:A:C5	43:1:1058:A:N1	2.83	0.46
43:1:1324:G:N2	43:1:1330:U:H3	2.13	0.46
43:1:1543:U:O2'	43:1:1544:A:O4'	2.28	0.46
43:1:1647:U:H6	43:1:1647:U:OP1	1.98	0.46
43:1:1657:A:O2'	43:1:1658:A:C8	2.65	0.46
43:1:2171:A:H2'	43:1:2172:A:C8	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2230:A:N1	85:2:1891:U:O2'	2.35	0.46
43:1:2348:G:C2	43:1:2349:G:C4	3.04	0.46
43:1:2460:U:H2'	43:1:2461:C:H5	1.79	0.46
43:1:2773:C:O2'	43:1:2775:U:OP1	2.33	0.46
43:1:2879:G:H22	43:1:2908:U:H2'	1.79	0.46
43:1:2914:C:H2'	43:1:2915:U:C6	2.50	0.46
43:1:2937:A:N1	43:1:3079:U:C4	2.83	0.46
63:Be:22:LEU:HD23	63:Be:22:LEU:HA	1.82	0.46
63:Be:55:LEU:C	63:Be:57:GLY:H	2.23	0.46
67:Bo:59:ILE:HD13	67:Bo:77:LEU:HD21	1.98	0.46
79:BJ:53:ALA:O	79:BJ:86:ALA:HB2	2.15	0.46
85:2:159:G:H2'	85:2:160:A:C8	2.51	0.46
85:2:808:C:O2	85:2:808:C:H2'	2.15	0.46
85:2:1399:G:O2'	85:2:1400:C:OP2	2.33	0.46
85:2:1528:G:H2'	85:2:1530:A:OP2	2.15	0.46
85:2:1637:A:H2'	85:2:1638:A:O4'	2.16	0.46
10:Aj:41:VAL:CG1	10:Aj:44:ARG:HB2	2.45	0.46
10:Aj:76:ALA:H	10:Aj:143:GLU:HA	1.80	0.46
12:Al:236:ARG:CZ	35:AK:63:THR:HA	2.45	0.46
14:An:119:LEU:HB3	27:AB:123:PHE:CZ	2.51	0.46
18:Ar:140:VAL:HG21	18:Ar:244:ILE:HD13	1.96	0.46
21:Au:11:ARG:HE	21:Au:13:TRP:H	1.63	0.46
21:Au:22:MET:HE3	21:Au:82:VAL:HG12	1.98	0.46
21:Au:42:GLN:O	21:Au:44:ARG:HG3	2.16	0.46
21:Au:95:LYS:HE2	21:Au:105:VAL:HG22	1.97	0.46
25:Ay:90:GLN:OE1	25:Ay:103:ASN:ND2	2.48	0.46
30:AF:180:ARG:NH1	44:3:33:C:N3	2.64	0.46
43:1:90:G:N1	43:1:91:U:O2	2.49	0.46
43:1:129:A:N1	43:1:156:G:C6	2.84	0.46
43:1:188:A:N7	43:1:189:A:C4	2.83	0.46
43:1:216:A:H2'	43:1:217:G:C8	2.50	0.46
43:1:689:C:N4	43:1:695:C:N4	2.63	0.46
43:1:903:G:H2'	43:1:904:G:C8	2.51	0.46
43:1:1018:G:H2'	43:1:1019:G:H8	1.81	0.46
43:1:1130:A:N3	43:1:2348:G:H1'	2.29	0.46
43:1:1171:G:N1	43:1:1290:U:C5	2.84	0.46
43:1:1378:G:C2	43:1:1384:A:C4	3.04	0.46
43:1:1664:A:H61	43:1:1665:C:N4	2.14	0.46
43:1:2002:G:N2	43:1:2302:U:C2	2.83	0.46
43:1:2182:G:N2	43:1:2187:A:C8	2.84	0.46
43:1:2253:C:H2'	43:1:2254:U:C5	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2436:G:C2'	43:1:2469:A:H61	2.29	0.46
43:1:2835:U:H2'	43:1:2836:C:H6	1.78	0.46
43:1:2931:G:O3'	43:1:2932:G:H4'	2.15	0.46
44:3:58:U:H2'	44:3:59:G:O4'	2.16	0.46
45:Bb:76:PRO:HA	45:Bb:442:ILE:O	2.16	0.46
45:Bb:500:ALA:N	85:2:1048:U:OP1	2.41	0.46
48:Bi:153:LYS:HE2	85:2:1117:U:C5	2.50	0.46
52:Bw:142:TYR:CE2	52:Bw:437:ALA:HB1	2.51	0.46
52:Bw:218:GLY:O	52:Bw:221:ILE:HG12	2.15	0.46
60:Ba:166:LEU:HG	60:Ba:170:GLU:CG	2.45	0.46
61:Bc:101:LEU:O	61:Bc:104:GLU:HG2	2.15	0.46
62:Bd:338:LEU:O	62:Bd:342:ARG:HG2	2.15	0.46
64:Bg:118:ARG:HB3	64:Bg:120:VAL:HG23	1.96	0.46
70:Bs:58:GLY:N	70:Bs:60:GLN:HE22	2.13	0.46
76:BD:231:ARG:HA	76:BD:235:ARG:HH12	1.80	0.46
76:BD:299:LEU:O	76:BD:302:GLU:HG2	2.16	0.46
76:BD:344:LYS:HB2	76:BD:344:LYS:HE3	1.77	0.46
77:BE:168:THR:HG21	77:BE:212:MET:HE1	1.98	0.46
78:BI:245:ALA:HA	85:2:1803:C:OP2	2.16	0.46
79:BJ:12:ALA:HB1	79:BJ:21:ALA:HA	1.97	0.46
80:BH:149:LYS:O	80:BH:153:ALA:HB2	2.16	0.46
85:2:410:C:H2'	85:2:411:A:O4'	2.16	0.46
85:2:427:U:C4	85:2:453:G:O6	2.68	0.46
85:2:774:A:H3'	85:2:775:G:H8	1.81	0.46
85:2:993:G:H1	85:2:1034:A:N6	2.12	0.46
85:2:1020:U:H2'	85:2:1021:G:H8	1.80	0.46
85:2:1505:G:C2	85:2:1506:G:H1'	2.50	0.46
85:2:1593:C:H2'	85:2:1594:A:H8	1.80	0.46
85:2:1804:C:C2	85:2:1805:A:C6	3.04	0.46
3:Ac:246:THR:O	3:Ac:246:THR:OG1	2.32	0.46
6:Ae:18:LEU:O	30:AF:193:LYS:HE3	2.16	0.46
6:Ae:170:LEU:HD11	30:AF:216:PHE:HD2	1.79	0.46
11:Ak:64:LYS:HD3	11:Ak:64:LYS:HA	1.78	0.46
15:Ao:25:PHE:CE2	15:Ao:98:LYS:HB3	2.51	0.46
22:Av:66:SER:OG	22:Av:67:LEU:N	2.48	0.46
25:Ay:80:LEU:HD11	25:Ay:113:SER:OG	2.15	0.46
32:AH:12:LEU:HD23	32:AH:13:VAL:N	2.30	0.46
33:AI:100:ARG:NE	33:AI:209:VAL:HG11	2.25	0.46
36:AL:32:LEU:HA	36:AL:36:ARG:HH21	1.81	0.46
40:AP:637:ALA:HB1	43:1:305:U:H2'	1.96	0.46
43:1:159:C:H3'	43:1:160:U:H6	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:474:G:H2'	43:1:475:A:C8	2.51	0.46
43:1:714:C:H2'	43:1:715:C:H6	1.76	0.46
43:1:823:G:C4	43:1:824:A:C8	3.03	0.46
43:1:1180:G:H2'	43:1:1181:A:C8	2.51	0.46
43:1:1366:G:H4'	43:1:1367:G:C5'	2.46	0.46
43:1:1882:A:H2'	43:1:1883:A:C8	2.51	0.46
43:1:2414:A:H2'	43:1:2415:U:C6	2.50	0.46
43:1:2564:U:H2'	43:1:2565:C:C6	2.46	0.46
43:1:2697:A:N1	43:1:2716:C:N3	2.63	0.46
43:1:2811:A:C6	43:1:2872:G:C2	3.04	0.46
44:3:2:A:P	44:3:2:A:C3'	3.03	0.46
52:Bw:248:HIS:CE1	52:Bw:365:SER:HA	2.48	0.46
54:Bz:311:ARG:NE	54:Bz:355:GLU:C	2.73	0.46
61:Bc:203:LYS:C	61:Bc:205:LYS:H	2.23	0.46
61:Bc:324:ARG:HB3	76:BD:238:ASP:HB3	1.96	0.46
63:Be:19:LEU:HA	63:Be:22:LEU:HB2	1.98	0.46
63:Be:31:TYR:HB2	72:Bv:176:ILE:HG21	1.98	0.46
66:Bn:402:TYR:OH	66:Bn:406:LEU:HD11	2.16	0.46
77:BE:74:LYS:O	77:BE:78:GLU:HG3	2.16	0.46
77:BE:353:GLU:HB3	77:BE:366:PRO:HB2	1.96	0.46
85:2:61:A:C6	85:2:378:G:C6	3.04	0.46
85:2:152:G:O2'	85:2:153:A:OP2	2.25	0.46
85:2:212:G:C2	85:2:220:C:C2	3.04	0.46
85:2:362:C:H6	85:2:362:C:O5'	1.99	0.46
85:2:828:C:H2'	85:2:829:C:O4'	2.15	0.46
85:2:1120:C:H2'	85:2:1496:A:H61	1.80	0.46
85:2:1213:C:HO2'	85:2:1214:G:H8	1.64	0.46
85:2:1372:G:O2'	85:2:1373:U:H6	1.98	0.46
85:2:1377:G:O2'	85:2:1378:U:H6	1.98	0.46
85:2:1380:G:C3'	85:2:1381:G:C5'	2.89	0.46
85:2:1389:G:O2'	85:2:1390:A:P	2.74	0.46
85:2:1566:G:N1	85:2:1567:G:C6	2.84	0.46
1:Aa:42:ARG:HH22	43:1:1891:G:P	2.39	0.46
3:Ac:245:ARG:HH11	43:1:3067:C:H5''	1.80	0.46
12:Al:170:LYS:HD3	12:Al:170:LYS:HA	1.72	0.46
14:An:56:SER:OG	14:An:57:LEU:N	2.47	0.46
20:At:85:TYR:HD2	43:1:1498:G:C4	2.34	0.46
23:Aw:100:LYS:C	23:Aw:102:HIS:H	2.23	0.46
26:AA:48:ILE:HG13	26:AA:49:GLY:N	2.30	0.46
27:AB:102:LEU:HD23	27:AB:102:LEU:HA	1.77	0.46
29:AE:3:VAL:HG21	43:1:2837:C:H4'	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AI:28:VAL:HG12	33:AI:29:ALA:H	1.81	0.46
39:AO:261:GLN:HG2	39:AO:262:ARG:HD2	1.97	0.46
40:AP:754:ALA:O	40:AP:759:ALA:N	2.49	0.46
41:AQ:159:PHE:HE2	41:AQ:190:ARG:HH21	1.63	0.46
41:AQ:408:GLU:HG3	41:AQ:438:LYS:HZ3	1.80	0.46
43:1:82:G:N2	43:1:96:G:HO2'	2.13	0.46
43:1:261:G:H5'	43:1:262:A:N7	2.31	0.46
43:1:1237:A:O2'	43:1:1238:A:OP2	2.33	0.46
43:1:2070:G:N1	43:1:2073:C:C2	2.83	0.46
43:1:2650:A:N6	43:1:2663:G:O2'	2.49	0.46
43:1:3095:A:H2'	43:1:3096:G:O4'	2.16	0.46
44:3:16:G:C6	44:3:72:G:N3	2.84	0.46
45:Bb:529:ARG:HD2	45:Bb:529:ARG:O	2.16	0.46
47:Bh:328:PHE:O	47:Bh:328:PHE:CG	2.68	0.46
47:Bh:367:VAL:HG11	47:Bh:379:ILE:HD11	1.97	0.46
47:Bh:371:GLY:HA3	85:2:1720:G:O3'	2.16	0.46
49:Bl:36:ASN:HD22	49:Bl:94:HIS:CE1	2.34	0.46
51:Br:161:ARG:HE	85:2:1670:U:H3	1.64	0.46
51:Br:166:LEU:HD13	51:Br:169:TYR:H	1.69	0.46
52:Bw:435:ALA:HB1	52:Bw:449:ARG:NH1	2.31	0.46
54:Bz:311:ARG:NH1	54:Bz:355:GLU:HA	2.30	0.46
56:Bt:65:TYR:HB2	85:2:1619:A:H5''	1.98	0.46
64:Bg:113:GLU:HG2	64:Bg:114:GLU:N	2.31	0.46
68:Bp:32:ARG:HB2	89:Bk:8:ILE:CD1	2.45	0.46
68:Bp:53:ASP:HB2	68:Bp:77:LYS:HA	1.97	0.46
72:Bv:180:GLU:HB2	72:Bv:183:ARG:HE	1.81	0.46
72:Bv:188:ALA:HA	72:Bv:191:ASP:HB2	1.97	0.46
75:BC:56:HIS:CD2	75:BC:83:ILE:HG22	2.49	0.46
75:BC:66:ASP:O	75:BC:70:LEU:HG	2.16	0.46
75:BC:103:TRP:CZ2	75:BC:105:PRO:HB3	2.51	0.46
85:2:112:U:O2'	85:2:113:C:C6	2.69	0.46
85:2:232:A:OP1	85:2:232:A:H2	1.99	0.46
85:2:424:G:C8	85:2:492:A:C2	3.03	0.46
85:2:945:U:H2'	85:2:946:G:H8	1.79	0.46
85:2:978:C:N3	85:2:1571:G:N2	2.64	0.46
85:2:993:G:C2	85:2:994:A:C5	3.03	0.46
85:2:1176:G:O2'	85:2:1177:U:C6	2.68	0.46
85:2:1427:G:C2	85:2:1428:G:C5	3.04	0.46
4:AD:129:THR:HG21	4:AD:163:ALA:HB1	1.98	0.46
11:Ak:72:LYS:HD3	11:Ak:72:LYS:HA	1.58	0.46
15:Ao:68:LYS:HE2	15:Ao:68:LYS:HB2	1.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:As:169:PRO:HA	19:As:172:LEU:HG	1.97	0.46
20:At:93:SER:H	25:Ay:36:ASN:HD21	1.62	0.46
21:Au:11:ARG:NE	21:Au:13:TRP:O	2.48	0.46
21:Au:91:LYS:HG3	21:Au:91:LYS:O	2.16	0.46
21:Au:144:TRP:O	21:Au:146:GLN:N	2.49	0.46
22:Av:133:ARG:HH21	22:Av:138:GLY:HA2	1.81	0.46
25:Ay:135:ALA:HA	25:Ay:138:LYS:HB3	1.98	0.46
32:AH:52:ARG:HE	43:1:1364:C:P	2.39	0.46
33:AI:90:ARG:N	33:AI:107:LEU:HD12	2.18	0.46
33:AI:172:ALA:HA	33:AI:186:LYS:HG2	1.98	0.46
33:AI:192:CYS:SG	33:AI:193:SER:N	2.88	0.46
41:AQ:311:LEU:HB3	41:AQ:315:PHE:CZ	2.51	0.46
41:AQ:472:ARG:HH12	41:AQ:473:PHE:HD2	1.61	0.46
43:1:25:G:C6	43:1:661:G:C6	3.04	0.46
43:1:210:C:O2'	43:1:242:A:O2'	2.11	0.46
43:1:487:G:C4	43:1:488:G:N7	2.84	0.46
43:1:862:A:H2'	43:1:863:G:O4'	2.16	0.46
43:1:949:G:H5'	43:1:950:C:C5	2.51	0.46
43:1:1019:G:N7	43:1:1020:C:N4	2.64	0.46
43:1:1166:A:H2'	43:1:1167:C:C6	2.51	0.46
43:1:1179:G:C6	43:1:1274:G:N2	2.84	0.46
43:1:1310:A:C6	43:1:1311:C:C4	3.03	0.46
43:1:1505:U:H3'	43:1:1506:C:H6	1.81	0.46
43:1:1661:U:O2'	43:1:1662:G:N3	2.42	0.46
43:1:1673:C:N4	43:1:1871:A:N6	2.63	0.46
43:1:1840:U:HO2'	43:1:1841:C:C5'	2.27	0.46
43:1:2184:U:H5''	43:1:2185:A:OP2	2.16	0.46
43:1:2589:A:C5	43:1:2591:G:C8	3.04	0.46
43:1:2706:U:H2'	43:1:2707:G:C8	2.50	0.46
43:1:2814:A:C6	43:1:2867:G:N1	2.84	0.46
43:1:3087:C:H3'	43:1:3088:A:H8	1.81	0.46
43:1:3110:U:C4	43:1:3157:A:N6	2.84	0.46
44:3:2:A:H2'	44:3:3:A:H8	1.81	0.46
44:3:16:G:C6	44:3:72:G:C2	3.04	0.46
44:3:17:U:H5''	44:3:18:G:OP2	2.16	0.46
44:3:42:U:H1'	44:3:45:C:C5	2.51	0.46
47:Bh:393:ASP:O	47:Bh:396:THR:OG1	2.32	0.46
50:Bm:132:ARG:HB3	50:Bm:143:SER:HB3	1.98	0.46
51:Br:175:ARG:CG	51:Br:184:ARG:HD3	2.43	0.46
61:Bc:206:ARG:C	61:Bc:209:ARG:HG2	2.41	0.46
65:Bj:248:ARG:HA	65:Bj:251:LYS:HD3	1.93	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:Bu:44:LYS:HE3	71:Bu:44:LYS:HB3	1.74	0.46
77:BE:295:ASN:C	77:BE:297:TRP:H	2.22	0.46
85:2:36:A:O2'	85:2:315:U:H5''	2.16	0.46
85:2:43:G:C2	85:2:44:C:C2	3.04	0.46
85:2:395:G:H2'	85:2:396:G:H8	1.81	0.46
85:2:567:G:H1'	85:2:817:U:C5	2.51	0.46
85:2:573:G:H3'	85:2:574:G:H5''	1.97	0.46
85:2:715:C:H3'	85:2:716:A:H2'	1.97	0.46
85:2:723:A:H2'	85:2:724:A:C8	2.51	0.46
85:2:911:A:C6	85:2:912:A:C6	3.04	0.46
85:2:1377:G:O2'	85:2:1378:U:C6	2.68	0.46
85:2:1427:G:O2'	85:2:1428:G:H8	1.98	0.46
85:2:1569:U:H2'	85:2:1570:G:O4'	2.15	0.46
85:2:1650:U:H2'	85:2:1650:U:OP2	2.16	0.46
85:2:1651:U:O2'	85:2:1652:C:H5'	2.16	0.46
85:2:1842:G:C6	85:2:1843:G:C2	3.03	0.46
2:Ab:109:LYS:NZ	2:Ab:113:GLY:O	2.45	0.46
3:Ac:77:THR:HA	3:Ac:159:VAL:HG11	1.98	0.46
6:Ae:46:ILE:HD11	6:Ae:48:ASN:ND2	2.29	0.46
9:Ai:34:PRO:CG	43:1:1246:U:O2	2.64	0.46
9:Ai:81:SER:OG	9:Ai:126:PHE:HB2	2.15	0.46
10:Aj:90:PHE:N	10:Aj:90:PHE:CD1	2.81	0.46
18:Ar:223:TYR:CE1	18:Ar:225:ARG:HG2	2.50	0.46
21:Au:59:GLY:N	21:Au:64:GLU:O	2.44	0.46
21:Au:81:VAL:CG2	21:Au:89:PRO:HG3	2.45	0.46
22:Av:39:ILE:HD13	22:Av:57:ARG:HH12	1.80	0.46
30:AF:173:LYS:HB3	30:AF:173:LYS:HE2	1.54	0.46
39:AO:287:TRP:CZ2	39:AO:321:LEU:HD11	2.50	0.46
39:AO:421:GLU:HG2	39:AO:422:GLN:N	2.29	0.46
43:1:28:U:C4	43:1:29:G:N2	2.84	0.46
43:1:64:G:C8	43:1:66:G:H1'	2.50	0.46
43:1:144:U:OP2	43:1:145:C:H4'	2.16	0.46
43:1:159:C:H2'	43:1:160:U:O4'	2.16	0.46
43:1:429:G:C5	43:1:430:U:C5	3.04	0.46
43:1:585:C:H2'	43:1:586:C:H6	1.79	0.46
43:1:670:A:H2'	43:1:670:A:N3	2.31	0.46
43:1:707:C:H2'	43:1:708:G:H8	1.81	0.46
43:1:837:U:H5''	43:1:1892:A:C6	2.51	0.46
43:1:1019:G:C5	43:1:1020:C:N4	2.84	0.46
43:1:1362:A:C6	43:1:1363:U:C4	3.04	0.46
43:1:1572:A:H2'	43:1:1573:C:C5	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1573:C:OP1	43:1:1647:U:C2	2.68	0.46
43:1:1599:A:HO2'	43:1:1600:A:C5'	2.29	0.46
43:1:1656:C:H4'	43:1:1657:A:H5'	1.98	0.46
43:1:1905:U:N3	43:1:1925:G:N1	2.61	0.46
43:1:2155:C:H4'	43:1:2156:G:H8	1.81	0.46
43:1:2359:G:H2'	43:1:2360:G:O4'	2.16	0.46
43:1:2380:G:N1	43:1:2741:C:N3	2.64	0.46
43:1:2382:A:H2'	43:1:2383:C:C6	2.51	0.46
43:1:2436:G:N1	43:1:2467:A:OP1	2.49	0.46
43:1:2999:G:C6	43:1:3013:A:N1	2.84	0.46
44:3:55:A:H4'	44:3:56:U:N1	2.30	0.46
44:3:64:C:H2'	44:3:65:G:C4	2.50	0.46
45:Bb:448:SER:HB3	45:Bb:451:LEU:HG	1.98	0.46
46:Bf:67:GLY:H	46:Bf:73:TYR:HB2	1.81	0.46
47:Bh:373:THR:HG23	85:2:1721:U:H5''	1.98	0.46
47:Bh:415:LYS:HZ1	85:2:1537:G:P	2.37	0.46
52:Bw:155:PRO:HB2	52:Bw:276:LYS:HE2	1.98	0.46
60:Ba:27:PHE:HB3	60:Ba:169:PHE:CE2	2.51	0.46
66:Bn:318:TYR:C	66:Bn:321:PRO:HD2	2.41	0.46
72:Bv:190:VAL:O	72:Bv:190:VAL:HG12	2.16	0.46
76:BD:216:VAL:O	76:BD:220:LEU:HG	2.15	0.46
77:BE:180:HIS:HB3	77:BE:315:ILE:HG13	1.97	0.46
85:2:222:G:N3	85:2:223:A:C8	2.84	0.46
85:2:601:G:H2'	85:2:602:U:O4'	2.16	0.46
85:2:1128:U:OP2	85:2:1128:U:H6	1.98	0.46
85:2:1658:G:C5	85:2:1659:U:C4	3.03	0.46
86:Az:27:LEU:CD1	86:Az:35:ARG:HG2	2.36	0.46
86:Az:71:VAL:HG23	86:Az:71:VAL:O	2.15	0.46
89:Bk:38:SER:O	89:Bk:52:ILE:HG13	2.15	0.46
2:Ab:206:ARG:NH1	2:Ab:209:GLU:OE2	2.49	0.46
4:AD:131:ARG:HD3	4:AD:156:GLY:O	2.16	0.46
5:Ad:215:ASP:OD1	5:Ad:216:LEU:N	2.48	0.46
6:Ae:129:PHE:HD2	6:Ae:159:ILE:HB	1.80	0.46
12:Al:198:THR:HG22	43:1:787:U:OP2	2.16	0.46
14:An:98:ARG:HG3	14:An:100:ARG:HH11	1.80	0.46
15:Ao:18:PRO:HB2	15:Ao:36:HIS:HD2	1.80	0.46
16:Ap:210:TYR:O	16:Ap:213:ARG:N	2.39	0.46
17:Aq:100:ASP:O	17:Aq:104:LYS:HG2	2.16	0.46
22:Av:58:ILE:HG13	22:Av:90:ILE:HG21	1.98	0.46
22:Av:158:VAL:HG11	22:Av:197:ILE:HG13	1.98	0.46
32:AH:130:VAL:HG11	43:1:699:C:H1'	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AI:49:ALA:O	33:AI:52:GLU:HG3	2.16	0.46
39:AO:281:THR:O	39:AO:285:ARG:HG2	2.16	0.46
43:1:83:A:C2	43:1:97:A:C4	3.04	0.46
43:1:229:A:N1	43:1:515:G:C6	2.84	0.46
43:1:259:A:H8	43:1:259:A:O5'	1.99	0.46
43:1:453:A:H5''	43:1:454:A:OP1	2.16	0.46
43:1:457:A:N6	43:1:472:U:O4'	2.48	0.46
43:1:458:A:C6	43:1:459:G:C5	3.04	0.46
43:1:585:C:H2'	43:1:586:C:C6	2.51	0.46
43:1:618:A:O2'	43:1:619:A:P	2.73	0.46
43:1:936:A:C6	43:1:2738:C:C5	3.04	0.46
43:1:1572:A:H5''	43:1:1649:C:C5	2.51	0.46
43:1:1579:C:H1'	43:1:1580:A:C8	2.51	0.46
43:1:1910:A:O2'	43:1:1913:G:OP2	2.27	0.46
43:1:1983:U:H3	43:1:2320:G:H22	1.64	0.46
43:1:2378:G:H4'	43:1:2379:U:OP2	2.16	0.46
43:1:2397:U:N3	43:1:2536:G:C6	2.84	0.46
43:1:2617:G:N2	43:1:2617:G:OP2	2.48	0.46
43:1:3160[A]:G:O5'	43:1:3161[A]:A:H4'	2.16	0.46
49:Bl:68:GLY:HA2	52:Bw:254:LYS:HZ2	1.81	0.46
50:Bm:113:LYS:HE2	51:Br:148:LYS:CB	2.45	0.46
52:Bw:144:LYS:HD2	52:Bw:171:ARG:HH21	1.81	0.46
62:Bd:502:GLN:HE21	62:Bd:507:ARG:HA	1.81	0.46
63:Be:79:LEU:O	63:Be:82:LEU:HG	2.15	0.46
72:Bv:92:ARG:O	72:Bv:96:GLN:HG2	2.16	0.46
76:BD:214:GLN:HG2	76:BD:303:PHE:HB3	1.97	0.46
85:2:540:G:C2	85:2:541:G:C5	3.04	0.46
85:2:816:A:C5	85:2:1925:G:C6	3.03	0.46
85:2:842:G:C6	85:2:843:A:C5	3.04	0.46
85:2:888:G:C6	85:2:889:U:C4	3.04	0.46
85:2:926:G:H2'	85:2:928:A:N7	2.31	0.46
85:2:1133:C:N3	85:2:1485:G:C6	2.84	0.46
85:2:1605:G:C5	85:2:1629:A:C5	3.04	0.46
85:2:1819:A:N7	85:2:1820:C:N4	2.64	0.46
86:Az:20:TYR:HH	86:Az:51:LEU:HD22	0.68	0.46
1:Aa:24:SER:N	43:1:2129:A:O2'	2.48	0.45
4:AD:167:LYS:NZ	43:1:1086:A:OP1	2.49	0.45
5:Ad:138:THR:HB	5:Ad:175:VAL:HG21	1.98	0.45
13:Am:118:ILE:HB	13:Am:136:GLY:O	2.17	0.45
16:Ap:171:PHE:HE1	16:Ap:188:LEU:HA	1.81	0.45
20:At:34:LYS:HD3	20:At:81:TYR:CD1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:157:PRO:HD3	25:AY:70:TRP:CD1	2.51	0.45
22:AV:86:ASP:OD2	22:AV:88:LYS:HD2	2.16	0.45
22:AV:109:LEU:HD21	22:AV:145:PHE:CE2	2.49	0.45
25:AY:105:GLU:O	25:AY:105:GLU:CG	2.62	0.45
36:AL:46:ARG:NH2	86:AZ:70:VAL:N	2.65	0.45
39:AO:234:ASN:HA	43:1:1641:U:O2	2.17	0.45
39:AO:325:TRP:NE1	39:AO:336:ILE:HG13	2.30	0.45
41:AQ:244:ASP:CB	41:AQ:247:ILE:HD12	2.43	0.45
41:AQ:338:THR:CG2	41:AQ:366:SER:HB2	2.46	0.45
43:1:138:G:C6	43:1:147:G:C6	3.05	0.45
43:1:256:U:OP2	43:1:256:U:H2'	2.16	0.45
43:1:299:U:O2'	43:1:300:C:C5	2.69	0.45
43:1:698:U:C2	43:1:700:A:H1'	2.51	0.45
43:1:859:A:O4'	43:1:861:C:C6	2.69	0.45
43:1:1221:C:C4	43:1:1241:C:N4	2.84	0.45
43:1:1366:G:H4'	43:1:1367:G:H5''	1.97	0.45
43:1:1579:C:C4	43:1:1580:A:C2	3.04	0.45
43:1:1579:C:C6	43:1:1580:A:C6	3.04	0.45
43:1:1581:U:O2	43:1:1627:A:N6	2.49	0.45
43:1:1678:A:H2	43:1:1865:A:H2'	1.81	0.45
43:1:2035:A:H5'	43:1:2036:A:OP2	2.16	0.45
43:1:2349:G:N2	43:1:2350:A:N3	2.64	0.45
43:1:2376:C:H5'	43:1:2553:G:N2	2.28	0.45
43:1:2434:G:N3	43:1:2435:G:N7	2.64	0.45
43:1:2993:C:H1'	43:1:3146:A:C2	2.51	0.45
43:1:3012:C:H2'	43:1:3013:A:C8	2.51	0.45
44:3:26:A:OP2	44:3:29:A:N6	2.49	0.45
44:3:43:U:P	44:3:45:C:H41	2.39	0.45
44:3:69:U:H3'	44:3:70:G:N7	2.31	0.45
48:BI:171:VAL:HG13	48:BI:172:ASP:HB3	1.97	0.45
50:BM:113:LYS:HE2	51:BR:148:LYS:CA	2.45	0.45
52:BW:164:ASP:O	52:BW:167:ASN:N	2.46	0.45
54:BZ:338:LYS:CG	85:2:1625:A:H1'	2.46	0.45
63:BE:4:TYR:CD2	63:BE:93:LEU:HD21	2.51	0.45
64:BG:19:ARG:NH1	85:2:825:C:O4'	2.38	0.45
72:BV:71:ARG:HA	72:BV:71:ARG:HD2	1.82	0.45
72:BV:78:ARG:HB3	72:BV:82:LYS:NZ	2.31	0.45
76:BD:314:TRP:C	76:BD:315:ARG:HD2	2.41	0.45
78:BI:192:ALA:HB1	78:BI:197:ALA:HB1	1.98	0.45
85:2:14:G:C2	85:2:317:U:H1'	2.51	0.45
85:2:376:G:N2	85:2:377:U:C2	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:453:G:C5	85:2:454:C:C5	3.04	0.45
85:2:1600:A:C6	85:2:1636:A:C4	3.04	0.45
85:2:1663:C:H2'	85:2:1664:U:C6	2.51	0.45
85:2:1746:C:H5''	85:2:1747:A:C8	2.51	0.45
85:2:1838:U:C4	85:2:1839:U:C2	3.04	0.45
89:Bk:90:LEU:HD13	89:Bk:90:LEU:C	2.41	0.45
7:Af:73:ARG:NH2	43:1:3046:G:O3'	2.49	0.45
17:Aq:29:GLU:O	17:Aq:33:GLN:HG3	2.16	0.45
32:AH:109:LEU:O	32:AH:113:ARG:HG2	2.15	0.45
33:AI:151:LYS:HA	33:AI:154:VAL:HG12	1.99	0.45
36:AL:25:LEU:HD21	43:1:1133:G:N2	2.30	0.45
38:AN:118:ARG:NH2	43:1:1554:G:OP1	2.48	0.45
39:AO:86:MET:HE1	43:1:1567:U:O2	2.16	0.45
39:AO:342:GLY:O	39:AO:346:GLN:HG3	2.15	0.45
40:AP:194:ALA:O	40:AP:200:ALA:HB3	2.16	0.45
43:1:130:A:C2	43:1:131:G:C2	3.04	0.45
43:1:590:A:C4	43:1:591:G:C8	3.03	0.45
43:1:633:C:O2'	43:1:634:G:OP1	2.30	0.45
43:1:715:C:C2	43:1:727:G:N2	2.84	0.45
43:1:742:U:C2	43:1:743:G:C8	3.04	0.45
43:1:798:A:H4'	43:1:799:G:OP1	2.16	0.45
43:1:1055:G:C2	43:1:1056:A:C4	3.04	0.45
43:1:1211:G:H2'	43:1:1212:G:C8	2.52	0.45
43:1:1249:C:H2'	43:1:1250:U:N1	2.31	0.45
43:1:1374:U:C4	43:1:1375:U:C4	3.04	0.45
43:1:1552:G:N2	43:1:1897:A:H62	2.08	0.45
43:1:1620:G:H1'	43:1:1621:C:C2	2.51	0.45
43:1:1665:C:O2'	43:1:1666:C:P	2.74	0.45
43:1:1948:G:H2'	43:1:1952:C:H42	1.81	0.45
43:1:2302:U:O2'	43:1:2303:G:H5'	2.15	0.45
43:1:2615:U:H2'	43:1:2616:C:C6	2.52	0.45
43:1:2761:C:H2'	43:1:2762:U:C6	2.49	0.45
43:1:2805:C:C2	43:1:2881:G:C6	3.03	0.45
43:1:3002:A:C2	43:1:3010:A:C2	3.04	0.45
43:1:3096:G:H1'	43:1:3100:A:H61	1.80	0.45
45:Bb:422:LYS:HD2	45:Bb:422:LYS:HA	1.75	0.45
61:Bc:232:THR:HG22	61:Bc:237:SER:HB3	1.98	0.45
61:Bc:324:ARG:HD2	76:BD:226:GLU:OE2	2.16	0.45
67:Bo:77:LEU:O	67:Bo:83:LEU:HB2	2.16	0.45
70:Bs:44:GLN:O	70:Bs:45:LYS:C	2.59	0.45
72:Bv:51:GLY:HA2	72:Bv:53:TRP:HZ3	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:BD:332:TRP:H	76:BD:336:VAL:HB	1.81	0.45
77:BE:75:ARG:HB2	77:BE:75:ARG:CZ	2.46	0.45
79:BJ:74:ALA:HB3	79:BJ:102:ALA:HB2	1.98	0.45
79:BJ:340:ALA:HA	79:BJ:343:ALA:HB3	1.98	0.45
85:2:174:C:C4	85:2:175:G:C5	3.04	0.45
85:2:419:C:H2'	85:2:420:G:H8	1.80	0.45
85:2:582:G:C6	85:2:583:C:C4	3.04	0.45
85:2:631:U:H2'	85:2:632:U:C6	2.51	0.45
85:2:754:G:H4'	85:2:873:C:H4'	1.98	0.45
85:2:987:A:H2'	85:2:988:C:O4'	2.16	0.45
85:2:1120:C:O2'	85:2:1497:C:O2	2.34	0.45
85:2:1136:A:N3	85:2:1476:A:N6	2.65	0.45
85:2:1191:U:O2'	85:2:1192:A:P	2.73	0.45
85:2:1217:G:O2'	85:2:1218:U:H6	1.99	0.45
85:2:1437:A:O2'	85:2:1438:G:C1'	2.65	0.45
85:2:1527:G:H3'	85:2:1528:G:H8	1.81	0.45
85:2:1529:A:C2	85:2:1530:A:C4	3.04	0.45
85:2:1672:G:N1	85:2:1673:G:C5	2.84	0.45
1:Aa:68:GLN:O	1:Aa:87:GLU:HB2	2.15	0.45
3:Ac:274:ASN:HB2	3:Ac:275:PHE:CE2	2.51	0.45
6:Ae:20:LEU:HD11	6:Ae:171:LEU:CD1	2.46	0.45
10:Aj:53:LEU:O	10:Aj:135:ARG:HD3	2.16	0.45
21:Au:133:ALA:CB	21:Au:136:LYS:HE3	2.44	0.45
26:AA:46:GLN:OE1	26:AA:46:GLN:HA	2.16	0.45
33:AI:222:GLU:HA	33:AI:225:GLU:HB2	1.97	0.45
39:AO:70:LEU:O	39:AO:73:PRO:HD2	2.16	0.45
39:AO:447:ILE:HG23	39:AO:448:PHE:CD1	2.52	0.45
40:AP:710:ALA:O	40:AP:714:ALA:HB2	2.16	0.45
41:AQ:157:LYS:HE3	43:1:1916:A:C4	2.51	0.45
43:1:703:C:H2'	43:1:704:U:C6	2.50	0.45
43:1:807:U:C2	43:1:808:A:C8	3.05	0.45
43:1:1171:G:C6	43:1:1289:C:C4	3.04	0.45
43:1:1179:G:C5	43:1:1274:G:N2	2.84	0.45
43:1:1316:C:H2'	43:1:1317:C:H6	1.81	0.45
43:1:1422:G:N2	43:1:2323:G:C4	2.84	0.45
43:1:1581:U:H5'	43:1:1627:A:C2	2.51	0.45
43:1:2034:G:C2	43:1:2080:G:C2	3.03	0.45
43:1:2522:G:H8	43:1:2522:G:OP2	2.00	0.45
43:1:2629:G:C2	43:1:2683:C:N3	2.84	0.45
43:1:2639:G:C6	43:1:2640:C:C4	3.03	0.45
43:1:2770:G:H3'	43:1:2773:C:H42	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2886:G:C6	43:1:2905:G:C2	3.03	0.45
43:1:3005:C:H2'	43:1:3006:C:C6	2.51	0.45
43:1:3014:G:OP1	43:1:3016:G:H4'	2.15	0.45
44:3:104:G:C6	44:3:105:U:N3	2.84	0.45
51:Br:158:ILE:HB	51:Br:196:PHE:CE2	2.52	0.45
52:Bw:332:ALA:O	52:Bw:335:VAL:N	2.48	0.45
52:Bw:370:PRO:HD2	52:Bw:375:SER:O	2.17	0.45
60:Ba:86:ARG:H	60:Ba:90:ASP:HA	1.82	0.45
61:Bc:215:ARG:HG3	61:Bc:216:PHE:H	1.82	0.45
64:Bg:27:LYS:HB3	64:Bg:28:PRO:HD3	1.97	0.45
64:Bg:41:LYS:HE2	64:Bg:41:LYS:HB2	1.64	0.45
66:Bn:371:LYS:HA	66:Bn:377:ARG:NH1	2.32	0.45
68:Bp:21:VAL:HB	68:Bp:40:PHE:HE2	1.81	0.45
71:Bu:13:ARG:NH2	77:BE:238:LEU:HD23	2.28	0.45
72:Bv:139:LEU:O	72:Bv:143:ARG:HG2	2.16	0.45
72:Bv:165:GLU:HB3	72:Bv:167:LEU:CD2	2.47	0.45
74:BB:120:LYS:HD2	85:2:1906:C:OP2	2.17	0.45
77:BE:337:ARG:HA	77:BE:337:ARG:HD2	1.74	0.45
85:2:163:A:H2'	85:2:164:A:N9	2.31	0.45
85:2:455:U:H2'	85:2:456:C:H6	1.82	0.45
85:2:591:C:C4	85:2:592:G:C6	3.03	0.45
85:2:743:U:H2'	85:2:744:A:N7	2.32	0.45
85:2:783:G:C5	85:2:784:A:C8	3.04	0.45
85:2:872:C:H5	89:Bk:3:THR:HG21	1.70	0.45
85:2:935:G:H2'	85:2:936:U:C6	2.51	0.45
85:2:1029:C:H2'	85:2:1031:U:O2	2.16	0.45
85:2:1443:U:O2'	85:2:1444:U:H6	1.98	0.45
85:2:1471:A:H2'	85:2:1472:A:H8	1.80	0.45
85:2:1705:G:C6	85:2:1706:A:C6	3.05	0.45
85:2:1853:U:O2'	85:2:1854:G:C8	2.70	0.45
87:Ah:27:ILE:HG13	87:Ah:111:LEU:HA	1.98	0.45
88:BK:197:ALA:O	88:BK:201:ALA:N	2.49	0.45
1:Aa:82:LYS:HD3	1:Aa:82:LYS:HA	1.79	0.45
9:Ai:66:THR:HB	9:Ai:78:THR:HG23	1.98	0.45
15:Ao:20:VAL:HG23	15:Ao:86:THR:O	2.16	0.45
17:Aq:61:HIS:HE1	17:Aq:96:LYS:HB2	1.81	0.45
21:Au:140:MET:O	21:Au:144:TRP:HZ3	1.99	0.45
21:Au:142:PHE:O	21:Au:143:VAL:C	2.59	0.45
22:Av:67:LEU:HD12	22:Av:78:SER:N	2.31	0.45
22:Av:173:LYS:HD2	22:Av:206:ILE:HD13	1.97	0.45
22:Av:218:HIS:HB2	22:Av:221:LEU:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:Aw:76:VAL:HG22	23:Aw:110:GLY:O	2.16	0.45
27:AB:95:ILE:O	27:AB:99:PRO:HD2	2.16	0.45
35:AK:59:LYS:O	35:AK:63:THR:OG1	2.30	0.45
41:AQ:363:LEU:HD12	41:AQ:363:LEU:HA	1.68	0.45
41:AQ:408:GLU:HG3	41:AQ:438:LYS:NZ	2.32	0.45
43:1:76:C:C2	43:1:104:G:C2	3.05	0.45
43:1:510:G:C6	43:1:511:C:C4	3.05	0.45
43:1:692:G:H21	43:1:693:C:H5	1.64	0.45
43:1:745:G:H2'	43:1:746:A:C8	2.52	0.45
43:1:842:A:H2'	43:1:843:G:O4'	2.17	0.45
43:1:979:A:C6	43:1:980:G:C5	3.04	0.45
43:1:990:U:O2'	43:1:991:C:OP2	2.35	0.45
43:1:1474:G:C6	43:1:1493:A:C6	3.05	0.45
43:1:1871:A:C2	43:1:1872:A:C5	3.04	0.45
43:1:1889:A:O2'	43:1:1890:G:H5'	2.16	0.45
43:1:1976:G:H3'	43:1:1977:G:H8	1.81	0.45
43:1:2170:A:OP2	43:1:2199:G:N1	2.50	0.45
43:1:2385:U:H2'	43:1:2386:U:H6	1.81	0.45
43:1:2572:A:C5	43:1:2573:G:C8	3.05	0.45
43:1:2951:A:C2	43:1:2974:U:C2	3.05	0.45
44:3:27:A:H2'	44:3:28:A:H8	1.80	0.45
44:3:97:A:C5	44:3:98:G:C5	3.05	0.45
46:Bf:81:ARG:HA	46:Bf:84:GLN:OE1	2.16	0.45
47:Bh:418:LYS:HB3	47:Bh:423:LYS:O	2.16	0.45
52:Bw:247:THR:HA	52:Bw:382:ARG:NH2	2.31	0.45
62:Bd:431:HIS:CD2	62:Bd:495:VAL:HG13	2.52	0.45
76:BD:172:LYS:HD3	81:BN:53:ALA:HA	1.99	0.45
77:BE:52:ARG:H	77:BE:86:ILE:CD1	2.29	0.45
85:2:37:A:H5'	85:2:315:U:OP1	2.15	0.45
85:2:290:C:H2'	85:2:291:C:H6	1.81	0.45
85:2:432:A:P	85:2:448:G:H22	2.39	0.45
85:2:552:U:H2'	85:2:553:C:C6	2.52	0.45
85:2:564:G:N2	85:2:565:G:H1'	2.32	0.45
85:2:609:C:C2	85:2:624:G:N2	2.84	0.45
85:2:786:U:H2'	85:2:788:G:OP2	2.16	0.45
85:2:981:C:H2'	85:2:982:C:O4'	2.16	0.45
85:2:1167:A:C2	85:2:1168:G:N2	2.84	0.45
85:2:1170:A:C2	85:2:1401:A:N1	2.84	0.45
85:2:1569:U:H2'	85:2:1570:G:C8	2.51	0.45
85:2:1735:G:H2'	85:2:1736:G:C8	2.51	0.45
85:2:1846:G:C6	85:2:1847:U:C2	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ac:180:GLN:O	3:Ac:251:TRP:HA	2.17	0.45
5:Ad:109:ASP:OD1	5:Ad:110:VAL:N	2.49	0.45
5:Ad:130:LYS:HE2	5:Ad:130:LYS:HB3	1.60	0.45
12:Al:242:ALA:HB1	43:1:213:C:H3'	1.99	0.45
14:An:99:ILE:CG1	14:An:100:ARG:H	2.18	0.45
15:Ao:35:ILE:HD12	15:Ao:36:HIS:H	1.81	0.45
16:Ap:144:GLU:OE2	16:Ap:149:LYS:HA	2.16	0.45
21:Au:11:ARG:HH11	21:Au:13:TRP:N	2.14	0.45
22:Av:57:ARG:H	22:Av:87:LYS:HE3	1.82	0.45
22:Av:62:VAL:HG23	22:Av:80:LYS:HB3	1.99	0.45
24:Ax:82:SER:O	24:Ax:86:ASP:N	2.49	0.45
30:AF:222:MET:HG2	30:AF:223:ALA:N	2.26	0.45
32:AH:30:MET:HE2	32:AH:30:MET:HB3	1.86	0.45
33:AI:89:PRO:HG2	33:AI:90:ARG:NH2	2.31	0.45
34:AJ:56:ILE:O	34:AJ:67:ALA:HA	2.16	0.45
36:AL:29:ARG:HH22	43:1:1097:U:H5'	1.82	0.45
37:AM:90:SER:HB2	43:1:3129:C:OP2	2.16	0.45
39:AO:319:GLU:HB3	39:AO:323:LYS:NZ	2.31	0.45
41:AQ:417:PHE:HA	41:AQ:420:MET:HG2	1.98	0.45
43:1:150:C:H1'	43:1:151:U:H5'	1.99	0.45
43:1:260:A:N7	43:1:261:G:H1'	2.31	0.45
43:1:449:G:C2	43:1:450:G:N7	2.84	0.45
43:1:507:A:H2'	43:1:508:A:C8	2.51	0.45
43:1:542:G:H2'	43:1:542:G:OP2	2.17	0.45
43:1:548:G:H2'	43:1:549:G:C8	2.40	0.45
43:1:583:G:C2	43:1:585:C:C2	3.04	0.45
43:1:709:G:C6	43:1:710:C:C4	3.04	0.45
43:1:726:U:O2'	43:1:2800:G:N1	2.50	0.45
43:1:984:A:H2'	43:1:985:U:C6	2.52	0.45
43:1:1287:G:C5	43:1:1288:G:H1'	2.51	0.45
43:1:2319:C:H2'	43:1:2320:G:H8	1.81	0.45
44:3:34:C:H2'	44:3:35:G:C8	2.39	0.45
45:Bb:347:VAL:HG23	45:Bb:348:GLY:N	2.31	0.45
52:Bw:282:LEU:HA	52:Bw:349:VAL:HG11	1.97	0.45
53:Bx:57:TYR:CZ	53:Bx:59:ILE:HA	2.52	0.45
61:Bc:73:ARG:O	61:Bc:76:PRO:HD2	2.16	0.45
62:Bd:329:LYS:N	62:Bd:329:LYS:HD2	2.31	0.45
62:Bd:404:GLN:HA	62:Bd:407:MET:HE3	1.97	0.45
63:Be:30:VAL:HG13	63:Be:35:GLY:HA3	1.98	0.45
64:Bg:11:ARG:NH1	64:Bg:70:ASP:O	2.42	0.45
64:Bg:14:VAL:HG21	64:Bg:70:ASP:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:Bg:81:ARG:HG2	64:Bg:82:ALA:H	1.82	0.45
67:Bo:18:PHE:HD1	67:Bo:42:PRO:HG3	1.81	0.45
72:Bv:151:LYS:O	72:Bv:155:GLN:HG3	2.16	0.45
85:2:6:A:H4'	85:2:7:G:OP1	2.16	0.45
85:2:60:C:H2'	85:2:61:A:H8	1.81	0.45
85:2:183:A:C5	85:2:307:A:C2	3.04	0.45
85:2:207:U:C2	85:2:239:G:N1	2.75	0.45
85:2:393:A:C6	85:2:394:U:C4	3.04	0.45
85:2:781:G:H2'	85:2:782:G:H8	1.81	0.45
85:2:1190:C:O2'	85:2:1191:U:C6	2.68	0.45
85:2:1385:C:O3'	85:2:1386:G:C5'	2.65	0.45
85:2:1435:U:C2	85:2:1446:A:N1	2.85	0.45
85:2:1438:G:C2	85:2:1442:G:N2	2.84	0.45
85:2:1883:G:H2'	85:2:1884:G:H8	1.80	0.45
88:BK:44:ALA:O	88:BK:47:ALA:HB3	2.16	0.45
88:BK:302:ALA:C	88:BK:304:ALA:N	2.70	0.45
2:Ab:192:LYS:HE2	43:1:2142:U:O2	2.17	0.45
3:Ac:223:GLN:HB2	43:1:2870:A:P	2.57	0.45
3:Ac:235:LYS:HB2	43:1:2918:C:H1'	1.98	0.45
9:Ai:18:ARG:O	43:1:1207:G:H5''	2.16	0.45
10:Aj:162:ARG:NH1	10:Aj:163:ARG:HH22	2.12	0.45
19:As:117:PRO:HG3	19:As:204:CYS:HB3	1.97	0.45
21:Au:70:VAL:HG12	21:Au:71:GLU:H	1.82	0.45
22:Av:181:ARG:NH1	22:Av:226:LYS:HZ3	2.14	0.45
24:Ax:110:TYR:O	24:Ax:113:LYS:HG2	2.16	0.45
25:Ay:44:PHE:HE2	25:Ay:56:TYR:OH	2.00	0.45
33:AI:130:HIS:HD2	33:AI:133:GLU:HG2	1.81	0.45
33:AI:229:LYS:H	33:AI:229:LYS:HG2	1.62	0.45
39:AO:43:LEU:HD11	39:AO:77:LEU:HB2	1.99	0.45
39:AO:394:LYS:O	39:AO:398:ILE:HG12	2.16	0.45
39:AO:451:LEU:O	39:AO:454:THR:HB	2.16	0.45
39:AO:478:GLU:HA	39:AO:481:LYS:HB2	1.99	0.45
40:AP:376:ALA:C	40:AP:378:ALA:H	2.24	0.45
41:AQ:159:PHE:O	41:AQ:163:LEU:HG	2.17	0.45
43:1:54:G:N2	43:1:110:C:C2	2.85	0.45
43:1:421:C:H41	43:1:483:C:N4	2.14	0.45
43:1:759:G:H2'	43:1:760:C:C6	2.52	0.45
43:1:856:U:O4	43:1:859:A:C5	2.69	0.45
43:1:953:G:C2	43:1:954:U:C2	3.05	0.45
43:1:1149:A:C6	43:1:1150:A:C6	3.05	0.45
43:1:1305:A:H2'	43:1:1306:A:H5''	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1403:A:C6	43:1:1405:U:N3	2.84	0.45
43:1:1472:C:C2	43:1:1473:U:C5	3.05	0.45
43:1:1615:C:HO2'	43:1:1616:G:H8	1.62	0.45
43:1:1900:U:C4	43:1:1901:C:N4	2.85	0.45
43:1:2017:A:C5	43:1:2074:A:C4	3.05	0.45
43:1:2162:G:C2	43:1:2163:G:C4	3.04	0.45
43:1:2651:G:C6	43:1:2663:G:C2	3.05	0.45
43:1:3113:G:H1	43:1:3152:U:H3	1.64	0.45
45:Bb:399:MET:SD	45:Bb:402:ILE:HD12	2.57	0.45
46:Bf:61:CYS:SG	46:Bf:62:GLU:N	2.89	0.45
48:Bi:223:ARG:HD3	48:Bi:223:ARG:HA	1.77	0.45
50:Bm:88:LYS:NZ	50:Bm:119:ALA:HA	2.31	0.45
54:Bz:347:LEU:HD11	54:Bz:349:ILE:HD11	1.98	0.45
61:Bc:161:ILE:O	61:Bc:165:GLU:HG2	2.17	0.45
61:Bc:350:LEU:O	61:Bc:353:TRP:NE1	2.49	0.45
76:BD:190:TYR:HE2	76:BD:227:GLU:CD	2.25	0.45
85:2:54:G:H2'	85:2:385:C:C5	2.52	0.45
85:2:779:A:C6	85:2:798:U:N3	2.84	0.45
85:2:782:G:C2	85:2:783:G:C8	3.04	0.45
85:2:890:C:H2'	85:2:891:G:H8	1.82	0.45
85:2:1002:A:N3	85:2:1003:A:H1'	2.32	0.45
85:2:1424:G:O2'	85:2:1425:U:H6	1.98	0.45
85:2:1658:G:H2'	85:2:1659:U:H6	1.82	0.45
85:2:1758:C:H2'	85:2:1759:A:C8	2.52	0.45
88:BK:113:ALA:O	88:BK:116:ALA:HB2	2.17	0.45
1:Aa:56:VAL:HB	1:Aa:93:ARG:HA	1.99	0.45
2:Ab:70:ILE:HD12	2:Ab:99:LYS:HA	1.98	0.45
2:Ab:166:HIS:CE1	2:Ab:183:SER:HA	2.52	0.45
3:Ac:118:GLU:OE2	43:1:3079:U:O2'	2.21	0.45
3:Ac:254:LYS:HB3	3:Ac:263:TRP:CZ3	2.52	0.45
4:AD:121:ARG:NH2	43:1:235:G:OP2	2.49	0.45
11:Ak:57:VAL:HG11	11:Ak:107:VAL:HG21	1.98	0.45
16:Ap:197:LYS:O	16:Ap:199:VAL:HG13	2.17	0.45
18:Ar:208:LEU:HD23	18:Ar:232:GLU:HB2	1.98	0.45
22:Av:212:LEU:HD23	22:Av:232:VAL:HG22	1.99	0.45
26:AA:45:ALA:HB1	33:AI:85:TYR:CE1	2.52	0.45
29:AE:19:ARG:HG3	29:AE:20:ARG:HG3	1.99	0.45
30:AF:196:ALA:HB1	33:AI:167:PRO:HG2	1.99	0.45
33:AI:31:VAL:HG13	33:AI:190:PHE:HB2	1.99	0.45
35:AK:112:LYS:O	35:AK:115:ARG:HG3	2.16	0.45
39:AO:450:PRO:O	39:AO:454:THR:OG1	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:AQ:348:MET:HE3	41:AQ:348:MET:HB2	1.87	0.45
41:AQ:376:GLY:O	41:AQ:380:ILE:HG13	2.16	0.45
43:1:27:A:H5''	43:1:28:U:OP2	2.17	0.45
43:1:53:G:C6	43:1:111:G:C2	3.05	0.45
43:1:192:A:H3'	43:1:193:G:H8	1.81	0.45
43:1:429:G:N2	43:1:475:A:N1	2.57	0.45
43:1:519:U:O2	43:1:522:A:H3'	2.16	0.45
43:1:987:A:H2'	43:1:988:U:C6	2.51	0.45
43:1:1098:U:O2'	44:3:87:A:N6	2.49	0.45
43:1:1102:G:C2	43:1:1103:G:C8	3.05	0.45
43:1:1166:A:C6	43:1:1296:G:C6	3.04	0.45
43:1:1175:A:OP1	43:1:1283:U:O2'	2.23	0.45
43:1:1211:G:N3	43:1:1212:G:C8	2.85	0.45
43:1:1623:G:O2'	43:1:1624:C:P	2.74	0.45
43:1:1660:A:O2'	43:1:1661:U:H5'	2.17	0.45
43:1:2076:A:C5	43:1:2077:C:C4	3.05	0.45
43:1:2266:U:H5	43:1:2855:G:N2	2.14	0.45
43:1:2650:A:C4	43:1:2664:A:C2	3.04	0.45
43:1:2705:G:H2'	43:1:2706:U:H6	1.82	0.45
43:1:2848:G:H2'	43:1:2849:U:C6	2.51	0.45
43:1:2930:A:H5''	43:1:3083:G:N1	2.28	0.45
43:1:3056:G:N2	43:1:3057:G:C4	2.85	0.45
45:Bb:510:THR:O	85:2:1099:C:H5''	2.16	0.45
49:Bl:67:LEU:HD11	49:Bl:85:LEU:CD2	2.47	0.45
50:Bm:141:ARG:HG2	53:Bx:54:TRP:CH2	2.52	0.45
52:Bw:223:LEU:HD23	52:Bw:354:VAL:HB	1.99	0.45
54:Bz:297:ILE:HA	54:Bz:297:ILE:HD13	1.74	0.45
61:Bc:335:ASN:CG	61:Bc:336:ILE:H	2.24	0.45
62:Bd:413:LYS:HD3	62:Bd:413:LYS:HA	1.72	0.45
62:Bd:431:HIS:CE1	62:Bd:433:ILE:HB	2.52	0.45
62:Bd:504:LYS:HD3	64:Bg:67:ARG:HD2	1.98	0.45
73:By:59:PHE:CD1	78:Bl:179:ALA:HB3	2.51	0.45
85:2:971:A:N6	85:2:1665:G:H1'	2.30	0.45
85:2:1470:G:O2'	85:2:1471:A:H5''	2.17	0.45
85:2:1873:U:H2'	85:2:1874:C:H6	1.82	0.45
88:BK:86:ALA:HB1	88:BK:120:ALA:HB2	1.99	0.45
88:BK:304:ALA:O	88:BK:305:ALA:HB3	2.16	0.45
1:Aa:73:ARG:HA	1:Aa:81:LYS:HG3	1.99	0.45
2:Ab:97:ILE:O	2:Ab:98:LEU:HD23	2.16	0.45
9:Ai:141:GLY:HA2	9:Ai:144:ASN:HD21	1.81	0.45
10:Aj:72:ILE:HD12	10:Aj:140:ARG:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Al:213:ARG:NE	12:Al:252:VAL:HG11	2.31	0.45
17:Aq:40:ARG:HH12	43:1:1142:G:P	2.39	0.45
21:Au:140:MET:CB	21:Au:143:VAL:HG13	2.47	0.45
22:Av:109:LEU:HD11	22:Av:145:PHE:CD2	2.51	0.45
28:AC:19:GLY:C	28:AC:45:ARG:HH12	2.25	0.45
33:Al:143:ARG:NH1	33:Al:162:PHE:O	2.35	0.45
36:AL:47:VAL:O	36:AL:51:GLU:HG3	2.15	0.45
39:AO:174:THR:O	39:AO:177:VAL:HG22	2.17	0.45
41:AQ:153:PHE:CE1	41:AQ:161:GLY:HA3	2.52	0.45
41:AQ:179:GLU:O	41:AQ:182:ILE:HG12	2.17	0.45
41:AQ:325:PHE:O	41:AQ:329:ILE:HG12	2.17	0.45
41:AQ:476:LYS:NZ	43:1:130:A:O5'	2.44	0.45
43:1:460:G:C4	43:1:461:U:C5	3.05	0.45
43:1:517:G:O2'	43:1:517:G:N3	2.49	0.45
43:1:938:G:H2'	43:1:939:A:C8	2.51	0.45
43:1:947:U:H5''	43:1:948:A:OP2	2.17	0.45
43:1:1075:U:C4	43:1:1076:U:N3	2.84	0.45
43:1:1136:C:C4	43:1:1137:A:N7	2.85	0.45
43:1:1556:C:C2	43:1:1557:G:C8	3.05	0.45
43:1:1611:G:O2'	43:1:1612:G:P	2.75	0.45
43:1:2148:A:H2'	43:1:2149:C:H6	1.82	0.45
43:1:2176:A:H2'	43:1:2177:G:O4'	2.16	0.45
43:1:2200:A:H2'	43:1:2201:A:O4'	2.15	0.45
43:1:2319:C:H2'	43:1:2320:G:C8	2.52	0.45
43:1:2335:U:H2'	43:1:2336:C:C6	2.52	0.45
43:1:2487:G:C6	43:1:2488:G:C6	3.05	0.45
43:1:2524:G:C2	43:1:2525:G:C4	3.05	0.45
44:3:16:G:H2'	44:3:17:U:O4'	2.17	0.45
49:Bl:50:GLN:CD	49:Bl:50:GLN:H	2.25	0.45
49:Bl:67:LEU:C	49:Bl:69:ILE:H	2.25	0.45
50:Bm:91:LYS:HD2	50:Bm:111:LEU:HB3	1.98	0.45
53:Bx:13:ALA:HA	53:Bx:16:ARG:HG3	1.99	0.45
63:Be:79:LEU:C	63:Be:81:TYR:N	2.75	0.45
64:Bg:106:PRO:HA	85:2:637:A:N7	2.30	0.45
66:Bn:319:PHE:O	66:Bn:322:ASP:HB2	2.16	0.45
66:Bn:336:LYS:O	66:Bn:339:GLU:HB2	2.17	0.45
66:Bn:343:MET:SD	66:Bn:343:MET:N	2.90	0.45
71:Bu:11:LYS:O	71:Bu:15:LEU:HD23	2.16	0.45
72:Bv:158:GLU:O	72:Bv:161:ILE:N	2.50	0.45
75:BC:45:PHE:O	75:BC:49:ILE:HG23	2.16	0.45
77:BE:386:THR:O	77:BE:388:ALA:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:63:A:N6	85:2:376:G:H1'	2.31	0.45
85:2:224:A:C3'	85:2:225:G:H5''	2.47	0.45
85:2:329:G:C6	85:2:330:C:C4	3.05	0.45
85:2:350:G:OP1	85:2:351:G:H5'	2.16	0.45
85:2:425:A:C6	85:2:426:G:C5	3.05	0.45
85:2:611:C:H2'	85:2:612:C:O4'	2.17	0.45
85:2:638:C:H2'	85:2:639:C:C6	2.52	0.45
85:2:989:A:H2'	85:2:990:U:H6	1.76	0.45
85:2:1150:A:O2'	85:2:1151:A:OP2	2.31	0.45
85:2:1655:A:C5	85:2:1656:U:C5	3.04	0.45
85:2:1728:G:O2'	85:2:1729:U:O5'	2.33	0.45
88:BK:40:ALA:O	88:BK:43:ALA:HB3	2.17	0.45
3:Ac:279:LYS:O	3:Ac:280:ASP:HB3	2.17	0.45
6:Ae:137:GLU:HB2	6:Ae:146:PHE:CD1	2.52	0.45
15:Ao:92:GLU:H	15:Ao:92:GLU:CD	2.25	0.45
18:Ar:232:GLU:C	18:Ar:233:LEU:HD12	2.41	0.45
20:At:108:ARG:HA	20:At:108:ARG:NE	2.31	0.45
21:Au:21:VAL:HG12	21:Au:22:MET:N	2.32	0.45
22:Av:132:HIS:CD2	22:Av:141:LEU:HD12	2.52	0.45
22:Av:133:ARG:NH2	22:Av:134:ASP:O	2.49	0.45
22:Av:158:VAL:HG13	22:Av:196:LYS:HA	1.99	0.45
25:Ay:55:VAL:HG23	25:Ay:55:VAL:O	2.16	0.45
28:AC:49:HIS:HD2	43:1:2670:G:H4'	1.81	0.45
29:AE:7:VAL:HB	29:AE:35:GLN:HE21	1.82	0.45
30:AF:171:TYR:CG	33:AI:50:PHE:HD2	2.34	0.45
33:AI:116:PHE:HB3	33:AI:205:CYS:SG	2.57	0.45
33:AI:173:ILE:HG22	33:AI:185:TYR:H	1.82	0.45
33:AI:177:GLU:O	33:AI:182:LEU:HB2	2.16	0.45
39:AO:267:TYR:OH	39:AO:290:LEU:HD13	2.17	0.45
41:AQ:224:LYS:HB3	41:AQ:226:HIS:HD2	1.82	0.45
41:AQ:462:VAL:HG13	41:AQ:466:GLU:CD	2.42	0.45
43:1:117:G:N2	43:1:119:A:O2'	2.50	0.45
43:1:431:G:C2	43:1:472:U:H5	2.35	0.45
43:1:506:A:H62	43:1:532:G:N2	2.15	0.45
43:1:714:C:H2'	43:1:715:C:C5	2.51	0.45
43:1:740:A:H2'	43:1:741:A:C8	2.52	0.45
43:1:872:G:C2	43:1:874:A:C4	3.05	0.45
43:1:1476:G:N1	43:1:1491:G:C6	2.85	0.45
43:1:1532:C:O2'	43:1:1533:G:P	2.75	0.45
43:1:1902:G:C2	43:1:1903:A:C4	3.05	0.45
43:1:2071:C:H2'	43:1:2072:A:O4'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2445:A:C5	43:1:2455:A:H1'	2.52	0.45
43:1:2600:A:C4	43:1:2601:A:C8	3.04	0.45
43:1:2695:G:C2	43:1:2718:C:O2	2.69	0.45
44:3:28:A:C4	44:3:29:A:C8	3.05	0.45
44:3:35:G:H2'	44:3:36:A:H8	1.80	0.45
44:3:72:G:O2'	44:3:73:C:O5'	2.20	0.45
44:3:115:G:H2'	44:3:116:U:C6	2.52	0.45
45:Bb:23:PHE:CB	48:Bi:136:SER:HA	2.47	0.45
46:Bf:58:LYS:HB3	46:Bf:84:GLN:NE2	2.32	0.45
46:Bf:137:SER:OG	55:BA:41:LEU:HB3	2.17	0.45
50:Bm:145:ILE:HG21	85:2:1552:G:C2	2.52	0.45
54:Bz:315:MET:O	54:Bz:348:THR:HA	2.17	0.45
61:Bc:86:GLU:OE2	61:Bc:86:GLU:N	2.48	0.45
61:Bc:108:ASP:OD1	61:Bc:109:VAL:HG13	2.17	0.45
61:Bc:235:PHE:CD2	76:BD:169:LYS:NZ	2.70	0.45
61:Bc:245:SER:OG	76:BD:161:MET:HE2	2.17	0.45
62:Bd:452:GLY:H	62:Bd:470:ASN:HD22	1.62	0.45
65:Bj:294:TYR:HE2	65:Bj:296:GLU:HB2	1.82	0.45
75:BC:103:TRP:CE2	75:BC:105:PRO:HB3	2.52	0.45
76:BD:213:ARG:NH1	76:BD:300:TYR:HB2	2.31	0.45
77:BE:362:LYS:NZ	77:BE:364:PHE:HB3	2.31	0.45
85:2:95:G:N2	85:2:114:C:O2	2.50	0.45
85:2:337:G:C2	85:2:355:G:C2	3.05	0.45
85:2:392:A:N3	85:2:393:A:C8	2.85	0.45
85:2:431:G:H4'	85:2:432:A:H5'	1.98	0.45
85:2:772:G:H2'	85:2:773:G:H8	1.82	0.45
85:2:781:G:O6	85:2:795:U:O4	2.34	0.45
85:2:949:U:H2'	85:2:950:U:C6	2.52	0.45
85:2:1087:U:H2'	85:2:1088:C:O4'	2.17	0.45
85:2:1665:G:N1	85:2:1668:A:OP2	2.50	0.45
85:2:1761:C:C2	85:2:1885:G:C2	3.05	0.45
85:2:1855:G:O2'	85:2:1856:C:OP2	2.32	0.45
85:2:1873:U:H2'	85:2:1874:C:C6	2.52	0.45
2:Ab:181:ARG:NH1	43:1:2387:C:OP2	2.50	0.45
3:Ac:136:SER:O	3:Ac:139:VAL:HG22	2.17	0.45
5:Ad:208:GLY:C	5:Ad:210:LEU:N	2.75	0.45
7:Af:6:PHE:O	7:Af:7:ARG:HG3	2.17	0.45
7:Af:99:LYS:HD2	43:1:2829:A:OP1	2.17	0.45
13:Am:58:PRO:HG3	44:3:97:A:H61	1.82	0.45
15:Ao:20:VAL:HA	15:Ao:86:THR:O	2.17	0.45
16:Ap:107:LYS:NZ	43:1:3110:U:OP2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:Ap:115:ILE:O	16:Ap:119:GLU:HG3	2.16	0.45
21:Au:148:TYR:CG	21:Au:149:ASP:N	2.84	0.45
30:AF:210:GLU:OE1	30:AF:210:GLU:N	2.39	0.45
33:Al:81:TYR:CE2	33:Al:83:MET:HB3	2.52	0.45
36:AL:66:PRO:HA	86:Az:76:MET:CB	2.41	0.45
41:AQ:117:ASN:O	41:AQ:121:GLU:HG3	2.17	0.45
43:1:22:A:H2'	43:1:23:U:O4'	2.17	0.45
43:1:83:A:C2	43:1:97:A:C5	3.05	0.45
43:1:188:A:N6	43:1:189:A:C6	2.85	0.45
43:1:691:A:O2'	43:1:692:G:H8	1.99	0.45
43:1:871:A:H2'	43:1:872:G:C8	2.53	0.45
43:1:1002:G:C4	43:1:2570:A:H2	2.35	0.45
43:1:1166:A:H2'	43:1:1167:C:H6	1.81	0.45
43:1:1166:A:C6	43:1:1296:G:O6	2.70	0.45
43:1:1353:G:C4	43:1:1354:U:C5	3.06	0.45
43:1:1428:A:OP2	43:1:1428:A:H8	1.99	0.45
43:1:1447:C:H2'	43:1:1448:G:H8	1.81	0.45
43:1:1570:C:H3'	43:1:1648:C:C5	2.52	0.45
43:1:1669:G:C6	43:1:1875:A:N6	2.85	0.45
43:1:1924:G:O2'	43:1:1925:G:OP2	2.30	0.45
43:1:2017:A:C8	43:1:2074:A:C2	3.04	0.45
43:1:2148:A:C6	43:1:2149:C:C4	3.05	0.45
43:1:2191:U:H2'	43:1:2192:U:C6	2.52	0.45
43:1:2267:A:C5	43:1:2268:G:N7	2.85	0.45
43:1:3001:U:O2'	43:1:3002:A:H5'	2.17	0.45
43:1:3079:U:H2'	43:1:3080:C:C6	2.52	0.45
43:1:3104:C:C2'	43:1:3105:U:H5'	2.46	0.45
43:1:3135:G:C2	43:1:3136:G:C8	3.06	0.45
46:Bf:49:LEU:HA	46:Bf:119:TYR:CE2	2.52	0.45
51:Br:130:LYS:HE3	51:Br:130:LYS:HB3	1.68	0.45
56:Bt:65:TYR:CB	85:2:1619:A:H5''	2.47	0.45
56:Bt:74:LYS:HD3	85:2:1635:G:C8	2.52	0.45
60:Ba:17:HIS:CB	60:Ba:183:LYS:HB2	2.41	0.45
60:Ba:18:LEU:HG	60:Ba:178:ALA:O	2.16	0.45
62:Bd:347:GLU:HA	62:Bd:350:ARG:HD2	1.98	0.45
72:Bv:178:GLN:OE1	72:Bv:180:GLU:N	2.50	0.45
75:BC:66:ASP:OD1	75:BC:68:PRO:HD2	2.17	0.45
75:BC:69:LYS:HB3	75:BC:69:LYS:HE3	1.88	0.45
77:BE:314:LYS:HE3	77:BE:376:VAL:HG21	1.98	0.45
85:2:132:U:O2'	85:2:133:C:H6	2.00	0.45
85:2:180:A:C6	85:2:181:G:C4	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:257:G:N1	85:2:258:U:O2	2.50	0.45
85:2:547:G:C2	85:2:548:U:C4	3.05	0.45
85:2:666:G:H2'	85:2:667:U:C6	2.52	0.45
85:2:1057:U:H5''	85:2:1540:G:N2	2.31	0.45
85:2:1175:A:N6	85:2:1176:G:C6	2.85	0.45
85:2:1368:C:HO2'	85:2:1369:G:H8	1.65	0.45
85:2:1811:U:H2'	85:2:1812:C:O4'	2.17	0.45
2:Ab:105:LYS:HB3	2:Ab:117:TRP:HE3	1.83	0.44
6:Ae:163:ALA:CB	6:Ae:169:THR:HG22	2.47	0.44
10:Aj:22:ILE:HB	10:Aj:25:ILE:CG1	2.46	0.44
10:Aj:32:TRP:CH2	10:Aj:152:LYS:HG3	2.52	0.44
11:Ak:87:VAL:HG23	11:Ak:98:LYS:HA	1.99	0.44
13:Am:59:ASP:OD1	13:Am:59:ASP:N	2.49	0.44
16:Ap:140:GLN:HE21	16:Ap:154:ILE:HG13	1.81	0.44
18:Ar:205:GLU:CD	32:AH:118:LEU:HG	2.42	0.44
39:AO:201:ARG:NH2	39:AO:201:ARG:O	2.49	0.44
39:AO:275:GLY:HA2	39:AO:279:LYS:NZ	2.32	0.44
40:AP:189:ALA:HB1	40:AP:216:ALA:HA	1.99	0.44
41:AQ:292:LYS:HE3	41:AQ:292:LYS:HB3	1.80	0.44
43:1:27:A:H3'	43:1:28:U:H6	1.82	0.44
43:1:791:A:H1'	43:1:796:C:N4	2.32	0.44
43:1:987:A:C2	43:1:988:U:C2	3.05	0.44
43:1:1183:G:H2'	43:1:1184:U:C6	2.52	0.44
43:1:1225:C:H3'	43:1:1226:A:C8	2.52	0.44
43:1:1239:A:H8	43:1:1239:A:O5'	2.01	0.44
43:1:1256:G:C5	43:1:1257:U:C4	3.05	0.44
43:1:1288:G:C6	43:1:1289:C:C4	3.06	0.44
43:1:1853:G:O2'	43:1:1854:C:O5'	2.29	0.44
43:1:1957:G:H2'	43:1:1958:A:O4'	2.17	0.44
43:1:2164:A:H1'	85:2:697:A:C6	2.53	0.44
43:1:2467:A:O2'	43:1:2468:G:H3'	2.17	0.44
43:1:2639:G:H2'	43:1:2640:C:H6	1.81	0.44
43:1:2677:G:C4	43:1:2678:U:C5	3.05	0.44
43:1:2715:U:H2'	43:1:2716:C:C6	2.52	0.44
43:1:2794:C:C4	43:1:2795:A:N1	2.85	0.44
43:1:2965:G:H2'	43:1:2966:G:O4'	2.17	0.44
43:1:3053:A:H2'	43:1:3054:G:H8	1.81	0.44
44:3:81:A:C2	44:3:97:A:C4	3.05	0.44
45:Bb:496:ALA:C	45:Bb:498:GLU:H	2.24	0.44
50:Bm:142:VAL:CG2	50:Bm:147:PHE:HB2	2.46	0.44
52:Bw:236:LEU:HD12	52:Bw:278:ASN:HD22	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:Bw:355:ILE:HG22	52:Bw:356:ASP:O	2.17	0.44
53:Bx:47:ILE:HD12	85:2:1607:A:H2	1.81	0.44
61:Bc:243:GLY:HA3	81:BN:32:ALA:HB3	1.99	0.44
61:Bc:355:ARG:HE	62:Bd:426:GLU:HB3	1.83	0.44
63:Be:45:LYS:HD2	63:Be:46:VAL:N	2.32	0.44
66:Bn:338:ARG:O	66:Bn:342:LYS:HB3	2.16	0.44
69:Bq:177:PHE:HB2	69:Bq:216:ALA:HB2	1.99	0.44
73:By:89:ASP:CB	73:By:91:ARG:HH11	2.29	0.44
77:BE:156:SER:OG	77:BE:157:LEU:N	2.50	0.44
82:BM:31:ALA:HB1	82:BM:36:ALA:HB2	1.98	0.44
85:2:198:G:H8	85:2:198:G:O5'	2.00	0.44
85:2:255:G:H2'	85:2:256:C:O4'	2.17	0.44
85:2:596:U:C2	85:2:634:G:O6	2.69	0.44
85:2:639:C:H2'	85:2:640:A:H5'	1.97	0.44
85:2:1018:G:C6	85:2:1019:A:C5	3.05	0.44
85:2:1162:A:H2	85:2:1409:G:H1	1.65	0.44
85:2:1417:C:O2'	85:2:1418:G:H2'	2.17	0.44
85:2:1445:U:N3	85:2:1446:A:N7	2.54	0.44
85:2:1500:A:C2'	85:2:1501:C:H5'	2.47	0.44
85:2:1845:G:C2	85:2:1846:G:C2	3.05	0.44
12:Al:158:THR:HG23	12:Al:160:LYS:N	2.32	0.44
19:As:195:ARG:HD2	43:1:891:G:C5	2.52	0.44
22:Av:62:VAL:O	22:Av:80:LYS:HB2	2.17	0.44
22:Av:80:LYS:HE2	22:Av:147:TRP:CZ2	2.52	0.44
26:AA:37:HIS:CG	26:AA:38:PHE:N	2.85	0.44
32:AH:55:HIS:NE2	43:1:1397:A:H4'	2.32	0.44
34:AJ:33:LYS:HB2	34:AJ:33:LYS:HE3	1.76	0.44
38:AN:175:LEU:HD12	38:AN:175:LEU:HA	1.74	0.44
40:AP:694:ALA:HB3	40:AP:697:ALA:H	1.82	0.44
43:1:25:G:C2	43:1:661:G:C4	3.06	0.44
43:1:25:G:C5	43:1:661:G:C6	3.05	0.44
43:1:57:G:C6	43:1:69:G:C6	3.06	0.44
43:1:119:A:N6	43:1:120:A:N1	2.64	0.44
43:1:176:A:C6	43:1:177:C:N4	2.86	0.44
43:1:182:A:H4'	43:1:2380:G:OP1	2.16	0.44
43:1:596:C:O2'	43:1:597:A:H5''	2.17	0.44
43:1:632:A:N7	43:1:634:G:C5	2.85	0.44
43:1:1332:U:O2'	43:1:1333:U:P	2.76	0.44
43:1:1399:C:C2	43:1:1400:A:C8	3.05	0.44
43:1:1611:G:O2'	43:1:1612:G:C8	2.69	0.44
43:1:1667:U:C2	43:1:1877:G:N1	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2218:G:N1	43:1:2235:C:N3	2.65	0.44
43:1:2433:U:H2'	43:1:2434:G:C8	2.52	0.44
43:1:2768:G:C2	43:1:2769:A:C5	3.05	0.44
43:1:3074:C:C2	43:1:3076:A:C2	3.06	0.44
43:1:3109:A:N6	43:1:3152:U:C6	2.85	0.44
44:3:23:G:O6	44:3:67:C:N4	2.51	0.44
45:Bb:513:ASN:ND2	85:2:1101:A:OP2	2.46	0.44
47:Bh:348:LEU:HD11	47:Bh:376:VAL:HG23	1.99	0.44
47:Bh:356:LYS:HG3	47:Bh:360:ARG:HE	1.82	0.44
49:Bl:49:LEU:O	49:Bl:52:VAL:HG22	2.18	0.44
50:Bm:113:LYS:HE2	51:Br:148:LYS:HA	2.00	0.44
51:Br:147:MET:N	51:Br:163:SER:HB2	2.33	0.44
52:Bw:332:ALA:O	52:Bw:333:VAL:C	2.61	0.44
52:Bw:476:ALA:HB3	52:Bw:477:PRO:HD3	2.00	0.44
56:Bt:64:SER:OG	85:2:1675:A:OP1	2.31	0.44
57:BG:190:LYS:HA	85:2:1159:G:O6	2.17	0.44
60:Ba:21:ARG:NE	60:Ba:22:ALA:H	2.16	0.44
61:Bc:62:TYR:HD2	61:Bc:65:SER:HB2	1.83	0.44
61:Bc:105:THR:O	61:Bc:145:LYS:HG2	2.18	0.44
62:Bd:352:PRO:HA	62:Bd:356:LYS:O	2.16	0.44
73:By:74:TRP:C	73:By:76:GLY:H	2.25	0.44
73:By:86:LEU:HG	73:By:92:HIS:O	2.17	0.44
77:BE:212:MET:HB3	77:BE:218:ALA:N	2.31	0.44
77:BE:326:GLN:HB2	77:BE:331:CYS:SG	2.57	0.44
85:2:55:C:C2	85:2:381:G:N2	2.86	0.44
85:2:278:G:C5	85:2:279:G:C5	3.05	0.44
85:2:737:G:C2	85:2:738:G:C8	3.06	0.44
85:2:1085:A:H2'	85:2:1087:U:C6	2.53	0.44
85:2:1177:U:C6	85:2:1178:G:N7	2.85	0.44
85:2:1183:G:C5	85:2:1184:C:C4	3.05	0.44
85:2:1604:G:H5'	85:2:1705:G:H4'	1.97	0.44
85:2:1761:C:C2	85:2:1885:G:N2	2.86	0.44
85:2:1907:G:H2'	85:2:1908:U:O4'	2.17	0.44
86:Az:68:MET:HE3	86:Az:68:MET:HB2	1.92	0.44
1:Aa:85:THR:O	1:Aa:86:ILE:C	2.60	0.44
3:Ac:229:LYS:NZ	3:Ac:231:PHE:HD1	2.15	0.44
6:Ae:137:GLU:CD	49:Bl:33:ARG:NH1	2.75	0.44
9:Ai:18:ARG:CZ	43:1:1207:G:O2'	2.55	0.44
11:Ak:68:ILE:HG12	11:Ak:85:ALA:HA	1.98	0.44
18:Ar:169:ILE:HG21	32:AH:7:TRP:HZ3	1.82	0.44
23:Aw:91:HIS:O	23:Aw:124:TRP:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AB:90:LYS:NZ	43:1:659:C:OP2	2.46	0.44
34:AJ:19:LEU:HG	34:AJ:20:ALA:N	2.33	0.44
41:AQ:178:LEU:HG	41:AQ:197:PHE:HZ	1.82	0.44
43:1:39:G:N1	43:1:586:C:C4	2.85	0.44
43:1:137:U:C4	43:1:147:G:C6	3.05	0.44
43:1:536:U:H3	43:1:545:A:N6	2.15	0.44
43:1:623:A:H2'	43:1:623:A:N3	2.32	0.44
43:1:640:G:N2	43:1:644:U:H6	2.16	0.44
43:1:734:C:H2'	43:1:735:G:C8	2.52	0.44
43:1:873:G:H2'	43:1:2092:U:O2	2.17	0.44
43:1:1002:G:H1	43:1:1067:A:N6	2.16	0.44
43:1:1057:A:N3	43:1:2566:C:O2'	2.44	0.44
43:1:1139:A:C6	43:1:1342:A:O2'	2.69	0.44
43:1:1139:A:O2'	43:1:1141:C:OP2	2.31	0.44
43:1:1220:G:C5	43:1:1221:C:N4	2.84	0.44
43:1:1533:G:N1	43:1:1534:U:C4	2.85	0.44
43:1:2049:U:O2	43:1:2062:G:C2	2.70	0.44
43:1:2115:U:O2'	43:1:2119:A:O2'	2.31	0.44
43:1:2196:A:P	43:1:2196:A:H8	2.40	0.44
43:1:2629:G:C2	43:1:2683:C:C2	3.05	0.44
43:1:2706:U:H2'	43:1:2707:G:H8	1.82	0.44
43:1:2722:C:H5'	43:1:2723:A:H5'	1.98	0.44
44:3:34:C:C2	44:3:35:G:N7	2.85	0.44
45:Bb:46:ARG:N	45:Bb:47:PRO:HD3	2.32	0.44
45:Bb:510:THR:OG1	45:Bb:510:THR:O	2.35	0.44
46:Bf:66:VAL:HG23	46:Bf:67:GLY:H	1.82	0.44
51:Br:166:LEU:HD11	51:Br:169:TYR:HB3	1.83	0.44
54:Bz:379:ASN:OD1	54:Bz:380:LYS:N	2.51	0.44
61:Bc:107:PHE:HA	61:Bc:111:PRO:HG2	1.99	0.44
61:Bc:205:LYS:HD2	61:Bc:205:LYS:HA	1.77	0.44
76:BD:154:VAL:O	76:BD:158:LYS:HG3	2.18	0.44
76:BD:250:GLU:HB2	76:BD:252:PHE:CD2	2.49	0.44
77:BE:295:ASN:N	77:BE:295:ASN:OD1	2.49	0.44
85:2:38:G:N1	85:2:40:A:C5	2.86	0.44
85:2:75:C:H2'	85:2:76:G:C8	2.52	0.44
85:2:168:G:C2	85:2:169:G:C5	3.06	0.44
85:2:170:C:O2'	85:2:398:C:H5'	2.17	0.44
85:2:285:G:OP2	85:2:286:C:N4	2.29	0.44
85:2:1000:A:C4	85:2:1026:U:H5	2.34	0.44
85:2:1055:C:C4	85:2:1056:G:C6	3.06	0.44
85:2:1424:G:O2'	85:2:1425:U:C6	2.69	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1705:G:C2	85:2:1706:A:C4	3.05	0.44
85:2:1712:A:C4	85:2:1714:G:C6	3.05	0.44
88:BK:93:ALA:CB	88:BK:124:ALA:HB1	2.47	0.44
5:Ad:155:LYS:HB2	5:Ad:158:GLY:H	1.82	0.44
6:Ae:167:ASP:HB2	6:Ae:168:GLU:OE1	2.17	0.44
12:Al:196:ARG:NH1	12:Al:248:GLN:HE22	2.14	0.44
14:An:35:VAL:HG13	14:An:36:THR:N	2.33	0.44
18:Ar:158:SER:O	32:AH:129:HIS:ND1	2.50	0.44
20:At:48:LEU:HD23	20:At:48:LEU:HA	1.78	0.44
21:Au:19:ASP:O	21:Au:21:VAL:HG23	2.17	0.44
23:Aw:78:PRO:HB2	43:1:2650:A:H2	1.83	0.44
24:Ax:118:LYS:C	24:Ax:120:ASP:H	2.25	0.44
35:AK:53:ARG:HA	35:AK:56:MET:SD	2.58	0.44
39:AO:277:LEU:H	39:AO:277:LEU:HD12	1.82	0.44
39:AO:454:THR:O	39:AO:458:ALA:HB2	2.18	0.44
40:AP:529:ALA:O	40:AP:531:ALA:N	2.49	0.44
43:1:221:C:C2	43:1:222:C:C5	3.06	0.44
43:1:311:G:H1	43:1:486:U:H3	1.65	0.44
43:1:473:A:N6	43:1:474:G:N3	2.65	0.44
43:1:674:A:H4'	43:1:675:G:O4'	2.17	0.44
43:1:997:C:C4	43:1:998:C:C4	3.05	0.44
43:1:1205:G:H22	43:1:1251:C:H3'	1.82	0.44
43:1:1269:G:H2'	43:1:1270:C:C6	2.52	0.44
43:1:1410:A:H5''	43:1:1411:U:H5'	1.99	0.44
43:1:1443:A:C6	43:1:1444:A:N1	2.85	0.44
43:1:1446:A:H2'	43:1:1447:C:C6	2.52	0.44
43:1:1576:A:H1'	43:1:1577:A:N7	2.31	0.44
43:1:1624:C:C2	43:1:1625:G:C8	3.06	0.44
43:1:1888:C:C2	43:1:1890:G:N7	2.86	0.44
43:1:2100:A:C2	43:1:2885:A:C4	3.06	0.44
43:1:2544:G:C2	43:1:2545:U:C2	3.06	0.44
43:1:2762:U:C2	43:1:2763:C:C6	3.04	0.44
43:1:3026:U:H3	43:1:3027:A:N6	2.15	0.44
43:1:3030:U:C4	43:1:3031:U:C5	3.05	0.44
44:3:19:A:C6	44:3:20:G:C6	3.05	0.44
45:Bb:37:ASN:OD1	45:Bb:38:LEU:N	2.50	0.44
45:Bb:366:LYS:HD3	45:Bb:407:ARG:NH1	2.32	0.44
45:Bb:448:SER:HB3	45:Bb:451:LEU:CD1	2.47	0.44
50:Bm:102:GLU:H	50:Bm:102:GLU:CD	2.25	0.44
50:Bm:104:ARG:O	50:Bm:108:ARG:CB	2.64	0.44
53:Bx:72:LYS:O	53:Bx:75:ILE:HG12	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:BF:47:ALA:HA	59:BF:50:ALA:HB3	1.98	0.44
61:Bc:121:PRO:HB2	85:2:425:A:C5'	2.48	0.44
61:Bc:135:ASN:ND2	61:Bc:151:ILE:H	2.16	0.44
61:Bc:150:ASP:C	61:Bc:329:VAL:HG23	2.43	0.44
61:Bc:233:LYS:HE3	61:Bc:233:LYS:HB2	1.70	0.44
61:Bc:321:VAL:HG22	61:Bc:328:ALA:CB	2.47	0.44
62:Bd:497:THR:O	62:Bd:500:ASP:N	2.50	0.44
69:Bq:203:ALA:O	69:Bq:207:ARG:HG3	2.17	0.44
71:Bu:52:GLU:H	71:Bu:52:GLU:HG3	1.66	0.44
73:By:77:ILE:HG21	85:2:235:A:P	2.58	0.44
73:By:92:HIS:HB3	73:By:117:HIS:NE2	2.32	0.44
77:BE:136:TYR:CE2	77:BE:138:LYS:HB2	2.51	0.44
79:BJ:270:ALA:HB3	79:BJ:305:ALA:HB1	1.99	0.44
85:2:186:G:C5	85:2:187:C:C5	3.05	0.44
85:2:458:U:H4'	85:2:459:U:O5'	2.17	0.44
85:2:547:G:C6	85:2:548:U:C4	3.05	0.44
85:2:550:C:C1'	89:Bk:28:PRO:HA	2.48	0.44
85:2:680:G:C2	85:2:681:G:C2	3.05	0.44
85:2:920:G:H21	85:2:1927:A:C3'	2.27	0.44
85:2:1177:U:C5	85:2:1178:G:N7	2.85	0.44
85:2:1182:U:HO2'	85:2:1183:G:H8	1.58	0.44
85:2:1436:A:O2'	85:2:1437:A:C8	2.63	0.44
85:2:1652:C:H2'	85:2:1653:G:H5'	1.99	0.44
85:2:1694:U:C2	85:2:1726:A:C2	3.06	0.44
85:2:1898:A:N7	85:2:1900:G:C4	2.86	0.44
86:Az:39:GLU:O	86:Az:39:GLU:HG3	2.17	0.44
87:Ah:71:SER:HB2	87:Ah:120:LEU:HD22	2.00	0.44
2:Ab:146:ARG:HA	2:Ab:146:ARG:HD2	1.55	0.44
5:Ad:149:ARG:HB2	43:1:941:C:OP2	2.17	0.44
8:Ag:57:LYS:HA	8:Ag:57:LYS:HD2	1.72	0.44
12:Al:81:LYS:HE3	43:1:737:G:H1'	2.00	0.44
13:Am:121:LYS:NZ	13:Am:128:GLY:O	2.50	0.44
15:Ao:73:LEU:O	15:Ao:76:ARG:N	2.51	0.44
19:As:160:ASN:HD21	43:1:634:G:H21	1.66	0.44
20:At:17:ILE:HG23	20:At:33:LEU:HD13	1.99	0.44
20:At:21:MET:SD	20:At:22:PRO:HD2	2.58	0.44
22:Av:153:LYS:O	22:Av:154:LEU:HD12	2.16	0.44
22:Av:179:THR:O	22:Av:179:THR:OG1	2.33	0.44
22:Av:201:VAL:HG22	22:Av:204:LEU:HB2	1.98	0.44
24:Ax:114:THR:OG1	24:Ax:117:GLN:HB3	2.18	0.44
28:AC:53:THR:OG1	28:AC:54:GLU:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AI:227:PHE:C	33:AI:229:LYS:H	2.25	0.44
39:AO:65:LEU:HB3	39:AO:70:LEU:HB2	1.99	0.44
39:AO:117:PRO:HB2	39:AO:119:THR:HG22	1.99	0.44
39:AO:432:LEU:HD23	39:AO:433:LEU:N	2.33	0.44
43:1:166:A:H2'	43:1:167:A:C8	2.52	0.44
43:1:310:A:C2	43:1:487:G:C2	3.05	0.44
43:1:452:C:H2'	43:1:453:A:H8	1.82	0.44
43:1:487:G:C2	43:1:488:G:C5	3.06	0.44
43:1:749:A:H2'	43:1:750:G:H8	1.83	0.44
43:1:759:G:N2	43:1:768:U:O2	2.50	0.44
43:1:786:G:C2	43:1:787:U:C4	3.06	0.44
43:1:919:G:C4	43:1:938:G:C8	3.06	0.44
43:1:1137:A:H2'	86:Az:28:PRO:HG2	2.00	0.44
43:1:1203:A:C2	43:1:1255:G:C6	3.06	0.44
43:1:1317:C:C2	43:1:1318:U:C6	3.05	0.44
43:1:1394:G:N1	43:1:1395:A:N3	2.66	0.44
43:1:1577:A:O2'	43:1:1578:C:P	2.76	0.44
43:1:1901:C:O2'	43:1:1902:G:H8	2.00	0.44
43:1:1971:U:H2'	43:1:1972:A:H8	1.80	0.44
43:1:2045:C:O2'	43:1:2046:U:O5'	2.36	0.44
43:1:2047:C:O2'	43:1:2048:C:OP2	2.29	0.44
43:1:2084:G:C2	43:1:2297:C:C2	3.05	0.44
43:1:2162:G:H2'	43:1:2163:G:C8	2.53	0.44
43:1:2284:G:H2'	43:1:2285:U:C6	2.52	0.44
43:1:2929:A:O2'	43:1:2930:A:N7	2.44	0.44
43:1:2963:G:H2'	43:1:2964:A:O4'	2.17	0.44
43:1:3027:A:O2'	43:1:3029:G:N7	2.42	0.44
47:Bh:406:ARG:HG2	47:Bh:407:ASP:N	2.31	0.44
47:Bh:422:ARG:O	85:2:1693:C:H5'	2.18	0.44
50:Bm:140:PHE:O	50:Bm:142:VAL:HG13	2.17	0.44
52:Bw:168:GLU:OE1	52:Bw:473:ARG:HB3	2.17	0.44
60:Ba:117:ARG:NH1	62:Bd:342:ARG:HH22	2.15	0.44
60:Ba:128:THR:O	60:Ba:129:THR:OG1	2.31	0.44
61:Bc:92:LYS:O	85:2:14:G:H5'	2.17	0.44
63:Be:71:THR:HG21	63:Be:75:MET:HG3	2.00	0.44
71:Bu:96:GLY:HA2	71:Bu:99:GLU:CB	2.47	0.44
73:By:80:GLU:HB2	73:By:100:HIS:HE2	1.82	0.44
76:BD:144:GLU:HA	76:BD:147:ASN:HD22	1.81	0.44
76:BD:185:GLU:HB3	76:BD:209:TYR:CE2	2.53	0.44
85:2:177:G:C4	85:2:178:U:C5	3.05	0.44
85:2:207:U:N3	85:2:239:G:C6	2.78	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:276:U:C4	85:2:277:A:N6	2.85	0.44
85:2:296:C:C4	85:2:297:A:N7	2.85	0.44
85:2:392:A:C4	85:2:479:A:C6	3.05	0.44
85:2:427:U:N3	85:2:453:G:N1	2.36	0.44
85:2:570:A:C5	85:2:571:A:N1	2.86	0.44
85:2:841:A:H2'	85:2:842:G:C8	2.51	0.44
85:2:880:G:C6	85:2:881:G:C4	3.06	0.44
85:2:881:G:C5	85:2:882:A:N7	2.86	0.44
85:2:1040:G:C6	85:2:1560:C:N4	2.86	0.44
85:2:1087:U:OP1	85:2:1100:G:N1	2.50	0.44
85:2:1848:C:O2	85:2:1849:U:H5	2.00	0.44
85:2:1854:G:O2'	85:2:1855:G:H8	2.00	0.44
85:2:1856:C:C4	85:2:1857:G:O6	2.70	0.44
87:Ah:119:LYS:HD3	87:Ah:135:ARG:HG3	2.00	0.44
2:Ab:179:ARG:HG2	43:1:2387:C:H41	1.82	0.44
4:AD:146:LYS:HA	4:AD:149:LYS:HE2	1.98	0.44
6:Ae:166:GLN:O	6:Ae:169:THR:OG1	2.35	0.44
6:Ae:171:LEU:HA	6:Ae:171:LEU:HD23	1.72	0.44
12:Al:156:LEU:HD13	12:Al:261:PRO:O	2.18	0.44
20:At:12:PHE:HD2	25:Ay:77:TRP:CE2	2.36	0.44
20:At:95:SER:O	20:At:98:LEU:HD23	2.17	0.44
21:Au:77:SER:OG	43:1:460:G:N2	2.50	0.44
22:Av:108:GLN:HE21	22:Av:125:ARG:HH22	1.65	0.44
33:AI:205:CYS:O	33:AI:206:GLU:HG3	2.17	0.44
36:AL:73:SER:O	36:AL:74:SER:OG	2.31	0.44
39:AO:136:GLU:HB3	39:AO:138:LEU:HG	2.00	0.44
39:AO:275:GLY:HA2	39:AO:279:LYS:HZ2	1.82	0.44
39:AO:322:PHE:CD1	39:AO:340:LEU:HD21	2.53	0.44
39:AO:373:GLU:HG2	39:AO:376:MET:HE3	1.99	0.44
43:1:20:G:C2	43:1:666:G:C2	3.05	0.44
43:1:29:G:C5	43:1:30:G:C6	3.05	0.44
43:1:51:A:N7	43:1:164:A:N6	2.66	0.44
43:1:78:U:H2'	43:1:79:G:C8	2.52	0.44
43:1:166:A:C6	43:1:167:A:C6	3.06	0.44
43:1:622:G:C2	43:1:649:A:C4	3.05	0.44
43:1:638:G:C2	43:1:639:U:C4	3.06	0.44
43:1:739:A:H2'	43:1:740:A:C8	2.53	0.44
43:1:962:G:N1	43:1:1344:U:OP2	2.45	0.44
43:1:1066:U:H2'	43:1:1067:A:O4'	2.17	0.44
43:1:1203:A:N1	43:1:1254:U:C4	2.85	0.44
43:1:1472:C:H2'	43:1:1473:U:H6	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1476:G:N2	43:1:1477:U:O2	2.51	0.44
43:1:1647:U:HO2'	43:1:1648:C:P	2.37	0.44
43:1:1674:A:N6	43:1:1870:C:N3	2.66	0.44
43:1:1867:A:HO2'	43:1:1868:G:H8	1.64	0.44
43:1:2083:G:C2	43:1:2298:C:C2	3.05	0.44
43:1:2567:U:O2	43:1:2576:A:N6	2.51	0.44
43:1:2754:C:H2'	43:1:2755:U:O4'	2.17	0.44
44:3:114:G:C4	44:3:115:G:C8	3.05	0.44
49:Bl:77:LEU:HB3	49:Bl:81:GLU:HG2	1.99	0.44
51:Br:161:ARG:NH1	85:2:1670:U:N3	2.52	0.44
51:Br:181:THR:HG22	51:Br:181:THR:O	2.18	0.44
60:Ba:97:ALA:O	60:Ba:101:TRP:CB	2.64	0.44
62:Bd:370:LYS:HZ2	62:Bd:379:ARG:HD2	1.82	0.44
63:Be:16:LYS:HB3	63:Be:16:LYS:HE2	1.83	0.44
64:Bg:88:TYR:OH	64:Bg:124:VAL:HG21	2.17	0.44
67:Bo:51:ARG:NE	76:BD:327:ARG:HH12	2.15	0.44
76:BD:177:ARG:HH12	76:BD:181:LEU:HD21	1.82	0.44
76:BD:186:LYS:HD2	76:BD:219:ILE:HD12	1.99	0.44
85:2:587:G:C2	85:2:588:A:C8	3.05	0.44
85:2:925:U:H2'	85:2:926:G:N7	2.33	0.44
85:2:1022:G:C6	85:2:1023:U:C4	3.05	0.44
85:2:1074:A:H2'	85:2:1075:U:H6	1.82	0.44
85:2:1110:U:H2'	85:2:1111:C:C6	2.52	0.44
85:2:1379:U:HO2'	85:2:1380:G:C5'	2.04	0.44
85:2:1516:G:C2	85:2:1518:U:H5'	2.52	0.44
85:2:1795:A:O2'	85:2:1796:U:O4'	2.35	0.44
3:Ac:216:ARG:HG2	3:Ac:217:SER:H	1.83	0.44
5:Ad:131:ARG:HH22	5:Ad:272:TYR:HD2	1.66	0.44
15:Ao:107:ARG:NH2	15:Ao:113:LEU:H	2.16	0.44
17:Aq:20:CYS:HB3	43:1:731:C:P	2.57	0.44
17:Aq:42:LYS:HE3	17:Aq:46:MET:HE2	2.00	0.44
19:As:153:VAL:HG11	19:As:206:LEU:HD22	1.98	0.44
25:Ay:66:ARG:HA	25:Ay:120:VAL:HG21	1.99	0.44
33:Al:159:HIS:HD2	33:Al:195:VAL:HG13	1.82	0.44
35:AK:40:GLU:HB2	35:AK:44:TRP:HB3	2.00	0.44
40:AP:603:ALA:C	40:AP:605:ALA:H	2.26	0.44
43:1:125:A:O2'	43:1:126:U:OP2	2.29	0.44
43:1:199:G:HO2'	43:1:200:G:C4'	2.30	0.44
43:1:255:U:H5'	43:1:256:U:OP2	2.18	0.44
43:1:422:U:O2'	43:1:423:G:H8	1.99	0.44
43:1:436:G:C2	43:1:437:G:N7	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:456:G:C2	43:1:466:G:H1'	2.52	0.44
43:1:619:A:N6	43:1:621:A:C6	2.86	0.44
43:1:694:G:O2'	43:1:695:C:OP2	2.32	0.44
43:1:720:G:C5	43:1:2341:A:N6	2.86	0.44
43:1:729:G:H2'	43:1:730:U:C6	2.52	0.44
43:1:872:G:HO2'	43:1:874:A:H8	1.65	0.44
43:1:921:G:H2'	43:1:922:G:H8	1.83	0.44
43:1:1042:U:H2'	43:1:1044:C:C5	2.53	0.44
43:1:1105:G:O3'	43:1:1106:C:H2'	2.18	0.44
43:1:1368:G:H1'	43:1:1393:A:N6	2.32	0.44
43:1:1623:G:O2'	43:1:1624:C:OP2	2.31	0.44
43:1:1960:C:N4	43:1:1961:A:N6	2.65	0.44
43:1:1995:G:N1	43:1:1996:U:C4	2.86	0.44
43:1:2586:G:H2'	43:1:2587:C:H6	1.83	0.44
44:3:6:G:C6	44:3:114:G:C6	3.06	0.44
45:Bb:420:VAL:HB	45:Bb:424:ARG:HH21	1.82	0.44
51:Br:180:LYS:HB2	85:2:979:A:O2'	2.18	0.44
52:Bw:340:ARG:HG3	52:Bw:393:MET:CE	2.47	0.44
52:Bw:420:PRO:HB2	52:Bw:421:VAL:HG23	2.00	0.44
60:Ba:59:ASN:HB2	71:Bu:29:ALA:HB1	1.99	0.44
63:Be:57:GLY:HA2	63:Be:59:HIS:CE1	2.53	0.44
71:Bu:26:TRP:HE3	71:Bu:30:MET:HB2	1.82	0.44
73:By:71:LYS:HB3	85:2:233:A:O2'	2.18	0.44
75:BC:59:LYS:NZ	75:BC:81:PHE:O	2.33	0.44
77:BE:328:LEU:O	77:BE:332:LEU:HB2	2.17	0.44
78:BI:195:ALA:C	78:BI:229:ALA:HB3	2.43	0.44
79:BJ:74:ALA:HB3	79:BJ:102:ALA:CB	2.48	0.44
85:2:76:G:C2	85:2:77:U:O4	2.71	0.44
85:2:188:G:C6	85:2:257:G:N1	2.85	0.44
85:2:395:G:C2	85:2:396:G:C5	3.05	0.44
85:2:549:U:H2'	85:2:550:C:H6	1.83	0.44
85:2:572:G:H4'	85:2:573:G:H5'	2.00	0.44
85:2:980:G:C6	85:2:981:C:C4	3.05	0.44
85:2:1056:G:C4	85:2:1058:C:N3	2.86	0.44
85:2:1079:U:N3	85:2:1091:A:N3	2.65	0.44
85:2:1165:C:C2'	85:2:1166:A:OP2	2.63	0.44
85:2:1388:A:O2'	85:2:1389:G:O5'	2.35	0.44
88:BK:59:ALA:HA	88:BK:62:ALA:CB	2.45	0.44
89:Bk:42:PRO:HD2	89:Bk:48:ALA:O	2.18	0.44
2:Ab:154:VAL:HG21	43:1:926:A:N7	2.33	0.44
3:Ac:84:CYS:HB2	16:Ap:113:MET:HE3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ac:189:ARG:HG3	43:1:2982:C:OP1	2.17	0.44
5:Ad:144:VAL:HG12	5:Ad:146:GLY:H	1.83	0.44
5:Ad:146:GLY:HA3	5:Ad:166:ARG:HG3	1.99	0.44
10:Aj:94:HIS:CD2	43:1:1280:G:C8	3.05	0.44
17:Aq:22:ARG:O	17:Aq:23:ILE:HD13	2.18	0.44
18:Ar:159:ILE:HG12	32:AH:129:HIS:CE1	2.53	0.44
21:Au:11:ARG:HH12	21:Au:40:ARG:NH1	2.16	0.44
30:AF:225:LEU:HD13	33:AI:89:PRO:HB3	1.98	0.44
31:AG:41:CYS:O	31:AG:42:LYS:HD3	2.17	0.44
33:AI:38:VAL:HG21	33:AI:107:LEU:HD22	2.00	0.44
33:AI:189:PHE:CG	33:AI:230:MET:HE1	2.53	0.44
39:AO:367:LEU:O	39:AO:400:LYS:HD3	2.16	0.44
39:AO:411:GLU:O	39:AO:414:ARG:HG2	2.17	0.44
39:AO:433:LEU:HG	39:AO:437:LYS:HD3	1.99	0.44
40:AP:374:ALA:HA	40:AP:375:ALA:C	2.43	0.44
41:AQ:430:LYS:HD2	43:1:144:U:C2	2.53	0.44
43:1:157:G:C6	43:1:158:A:N6	2.86	0.44
43:1:189:A:C2	43:1:190:G:N2	2.86	0.44
43:1:506:A:C5	43:1:507:A:C8	3.06	0.44
43:1:536:U:O2'	43:1:537:U:H5''	2.18	0.44
43:1:691:A:H2	43:1:694:G:N7	2.16	0.44
43:1:854:G:N2	43:1:864:G:H22	2.16	0.44
43:1:946:A:C5	43:1:947:U:C4	3.05	0.44
43:1:967:C:C2	43:1:968:U:C5	3.06	0.44
43:1:1388:C:C4	43:1:1389:C:C5	3.06	0.44
43:1:1931:U:H2'	43:1:1932:G:C8	2.53	0.44
43:1:1968:G:N7	43:1:1970:A:N6	2.66	0.44
43:1:2061:A:C2	43:1:2062:G:C5	3.06	0.44
43:1:2116:G:C6	43:1:2136:A:N7	2.85	0.44
43:1:2354:C:C2	43:1:3072:U:O2	2.71	0.44
43:1:2389:C:H2'	43:1:2390:U:H6	1.83	0.44
43:1:2689:G:N2	43:1:2725:C:H4'	2.32	0.44
43:1:2931:G:OP1	43:1:3083:G:N2	2.50	0.44
43:1:2958:U:O2	43:1:2967:A:C5	2.69	0.44
43:1:3059:A:C6	43:1:3061:A:C4	3.06	0.44
44:3:23:G:N1	44:3:66:U:C2	2.78	0.44
44:3:30:C:C2	44:3:31:A:C8	3.06	0.44
44:3:116:U:C4	44:3:118:A:N6	2.86	0.44
45:Bb:11:ARG:HH21	45:Bb:515:PHE:HA	1.81	0.44
45:Bb:524:VAL:HG12	45:Bb:535:VAL:HG22	2.00	0.44
51:Br:166:LEU:HD11	51:Br:169:TYR:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:Ba:70:VAL:HB	60:Ba:136:VAL:HG12	2.00	0.44
61:Bc:200:HIS:O	61:Bc:204:THR:HG23	2.18	0.44
61:Bc:346:LYS:C	61:Bc:348:LEU:H	2.25	0.44
62:Bd:441:LYS:HB3	62:Bd:441:LYS:HE2	1.76	0.44
63:Be:17:GLU:HA	63:Be:20:ILE:HD11	1.99	0.44
65:Bj:244:GLU:O	65:Bj:281:GLY:HA3	2.18	0.44
69:Bq:168:THR:O	69:Bq:171:VAL:HG12	2.17	0.44
75:BC:49:ILE:HB	75:BC:94:TYR:HD2	1.83	0.44
75:BC:75:THR:HG21	85:2:472:G:O6	2.18	0.44
76:BD:226:GLU:HA	76:BD:229:GLU:HG2	1.99	0.44
85:2:90:G:HO2'	85:2:91:C:H6	1.61	0.44
85:2:222:G:H2'	85:2:223:A:C8	2.53	0.44
85:2:362:C:H2'	85:2:364:C:C2	2.52	0.44
85:2:392:A:H2'	85:2:393:A:H8	1.83	0.44
85:2:554:G:N2	85:2:555:G:N3	2.65	0.44
85:2:569:A:C6	85:2:858:A:N6	2.86	0.44
85:2:578:G:H8	85:2:578:G:OP2	2.00	0.44
85:2:621:G:C2	85:2:622:C:C2	3.06	0.44
85:2:661:G:C2	85:2:736:G:C4	3.06	0.44
85:2:1110:U:H1'	85:2:1529:A:C5	2.53	0.44
85:2:1128:U:O2'	85:2:1129:G:O5'	2.35	0.44
85:2:1369:G:O2'	85:2:1370:A:C8	2.63	0.44
85:2:1451:G:HO2'	85:2:1452:C:P	2.17	0.44
85:2:1529:A:H8	85:2:1529:A:OP1	2.01	0.44
85:2:1786:A:O2'	85:2:1787:U:P	2.74	0.44
87:Ah:94:LEU:O	87:Ah:98:ILE:HG12	2.17	0.44
3:Ac:227:PRO:HD3	43:1:1279:U:O4	2.18	0.44
6:Ae:16:LEU:HA	6:Ae:19:LYS:HD2	2.00	0.44
6:Ae:152:ILE:O	6:Ae:153:ARG:HD2	2.17	0.44
14:An:8:GLY:O	14:An:9:ARG:HG3	2.18	0.44
21:Au:17:ARG:HG3	43:1:84:G:P	2.57	0.44
21:Au:134:GLY:N	21:Au:135:PRO:HD2	2.33	0.44
22:Av:101:PHE:HB2	22:Av:157:ASP:OD2	2.18	0.44
33:AI:39:VAL:HG22	33:AI:107:LEU:O	2.18	0.44
33:AI:161:TYR:O	33:AI:192:CYS:HA	2.18	0.44
38:AN:161:ALA:HA	38:AN:164:ARG:NH1	2.33	0.44
39:AO:315:LEU:H	39:AO:315:LEU:HD12	1.82	0.44
39:AO:458:ALA:HA	39:AO:460:LYS:HD2	1.98	0.44
40:AP:510:ALA:C	40:AP:512:ALA:H	2.26	0.44
43:1:698:U:O5'	43:1:699:C:H5'	2.17	0.44
43:1:712:U:N3	43:1:722:A:C8	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:721:C:C4	43:1:2341:A:N1	2.86	0.44
43:1:828:A:C8	43:1:917:U:C4	3.05	0.44
43:1:849:A:H2'	43:1:850:G:O4'	2.18	0.44
43:1:922:G:C5	43:1:923:U:C4	3.06	0.44
43:1:1025:G:H2'	43:1:1026:U:H6	1.82	0.44
43:1:1189:G:C6	43:1:1190:A:C5	3.06	0.44
43:1:1292:A:C6	43:1:1294:G:C4	3.06	0.44
43:1:1401:G:N2	43:1:1402:A:C4	2.86	0.44
43:1:1514:A:H2	43:1:1533:G:H22	1.61	0.44
43:1:1530:G:C2'	43:1:1531:C:H4'	2.28	0.44
43:1:2114:C:C2	43:1:2115:U:C5	3.06	0.44
43:1:2324:A:C5	43:1:2325:A:C8	3.05	0.44
43:1:2481:U:H3'	43:1:2482:C:C6	2.53	0.44
43:1:2554:G:C4	43:1:2555:G:C8	3.05	0.44
43:1:2583:U:O2'	43:1:2584:G:H5'	2.17	0.44
43:1:3028:A:H5'	43:1:3028:A:C8	2.52	0.44
43:1:3080:C:H2'	43:1:3081:U:C6	2.52	0.44
44:3:52:G:H2'	44:3:53:A:O4'	2.18	0.44
45:Bb:472:ALA:O	45:Bb:476:LYS:HB2	2.18	0.44
45:Bb:475:VAL:HG12	45:Bb:507:HIS:CE1	2.52	0.44
48:Bi:181:MET:HB3	48:Bi:181:MET:HE2	1.71	0.44
49:Bl:44:PRO:HD2	49:Bl:45:LEU:HD22	2.00	0.44
49:Bl:76:ASP:N	49:Bl:76:ASP:OD1	2.51	0.44
51:Br:159:TRP:N	51:Br:159:TRP:HD1	2.11	0.44
53:Bx:81:LEU:HD23	53:Bx:81:LEU:HA	1.81	0.44
61:Bc:319:LEU:HB3	61:Bc:329:VAL:O	2.18	0.44
68:Bp:68:HIS:CD2	85:2:254:U:H4'	2.53	0.44
76:BD:245:LEU:HA	76:BD:245:LEU:HD12	1.72	0.44
79:BJ:37:ALA:HB1	85:2:150:A:OP2	2.18	0.44
85:2:34:A:H62	85:2:554:G:H21	1.66	0.44
85:2:202:A:N6	85:2:245:U:O4	2.51	0.44
85:2:435:G:N1	85:2:436:G:C6	2.86	0.44
85:2:574:G:C2	85:2:575:C:C2	3.06	0.44
85:2:663:A:H2'	85:2:664:G:O4'	2.17	0.44
85:2:883:G:O2'	85:2:899:A:N6	2.50	0.44
85:2:996:C:O2	85:2:997:A:N6	2.51	0.44
85:2:1010:C:C2	85:2:1018:G:C2	3.06	0.44
85:2:1062:U:H2'	85:2:1063:C:C6	2.52	0.44
85:2:1202:C:HO2'	85:2:1203:U:C5'	1.98	0.44
85:2:1217:G:O2'	85:2:1218:U:C6	2.70	0.44
85:2:1650:U:C5	85:2:1652:C:C4	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1845:G:O2'	85:2:1846:G:OP2	2.32	0.44
86:Az:34:HIS:CD2	86:Az:34:HIS:N	2.86	0.44
5:Ad:190:LYS:NZ	43:1:769:G:N7	2.66	0.43
16:Ap:152:VAL:HG23	16:Ap:154:ILE:H	1.83	0.43
19:As:133:GLU:OE1	19:As:133:GLU:N	2.28	0.43
20:At:99:PHE:CG	20:At:100:PRO:HD2	2.52	0.43
21:Au:124:ILE:HA	43:1:94:G:C8	2.53	0.43
22:Av:37:GLN:CB	22:Av:89:GLN:HE22	2.21	0.43
30:AF:223:ALA:CB	33:AI:38:VAL:HB	2.38	0.43
31:AG:63:TYR:HB3	31:AG:65:VAL:HG23	1.99	0.43
32:AH:13:VAL:HG22	32:AH:47:ILE:HG23	2.00	0.43
33:AI:224:ALA:HA	33:AI:227:PHE:HB2	1.99	0.43
37:AM:69:GLY:O	37:AM:71:LEU:HD23	2.17	0.43
38:AN:148:ARG:CZ	38:AN:148:ARG:HA	2.48	0.43
39:AO:457:ALA:O	39:AO:460:LYS:HD2	2.18	0.43
40:AP:387:ALA:C	40:AP:389:ALA:H	2.26	0.43
41:AQ:218:VAL:HG21	41:AQ:247:ILE:HG23	2.00	0.43
41:AQ:449:ASN:HA	41:AQ:452:TYR:HB3	2.00	0.43
43:1:462:G:C5	43:1:618:A:C2	3.06	0.43
43:1:843:G:O2'	43:1:1967:A:N3	2.43	0.43
43:1:1236:G:C2'	43:1:1237:A:H4'	2.47	0.43
43:1:1320:G:H2'	43:1:1321:A:C8	2.53	0.43
43:1:1873:G:C2	43:1:1874:A:C5	3.06	0.43
43:1:2163:G:N2	43:1:2206:C:C2	2.86	0.43
43:1:2266:U:H5'	43:1:2849:U:O2	2.18	0.43
43:1:2399:G:C6	43:1:2534:G:C6	3.05	0.43
43:1:2958:U:N3	43:1:2967:A:C8	2.83	0.43
43:1:3004:G:C2	43:1:3005:C:C2	3.05	0.43
43:1:3045:U:C4	43:1:3046:G:N7	2.86	0.43
44:3:24:U:OP2	44:3:61:A:N6	2.50	0.43
47:Bh:381:LEU:O	47:Bh:385:ARG:HG2	2.18	0.43
48:Bi:172:ASP:OD2	48:Bi:175:SER:OG	2.36	0.43
49:Bl:34:VAL:CG1	49:Bl:36:ASN:H	2.29	0.43
49:Bl:45:LEU:O	49:Bl:73:LEU:HB2	2.18	0.43
49:Bl:53:TYR:HB2	49:Bl:99:ARG:NH1	2.33	0.43
49:Bl:63:VAL:O	49:Bl:66:HIS:HB3	2.17	0.43
60:Ba:26:HIS:HE1	60:Ba:166:LEU:HB2	1.79	0.43
60:Ba:101:TRP:O	60:Ba:102:LYS:HB3	2.18	0.43
62:Bd:354:TYR:HB3	62:Bd:355:ARG:NE	2.28	0.43
62:Bd:389:TYR:O	62:Bd:423:ARG:NH1	2.51	0.43
66:Bn:399:TRP:CE2	68:Bp:79:ARG:HB2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:BD:284:MET:HA	76:BD:287:VAL:HG12	2.00	0.43
76:BD:338:LYS:HA	76:BD:338:LYS:HD3	1.74	0.43
85:2:159:G:C2	85:2:160:A:C6	3.06	0.43
85:2:221:U:H2'	85:2:222:G:H8	1.81	0.43
85:2:447:U:H3'	85:2:448:G:H2'	1.99	0.43
85:2:774:A:H3'	85:2:775:G:C8	2.53	0.43
85:2:783:G:C2	85:2:794:C:C2	3.06	0.43
85:2:833:G:C6	85:2:834:U:C4	3.06	0.43
85:2:1192:A:H2	85:2:1203:U:O2	1.96	0.43
85:2:1219:C:HO2'	85:2:1220:G:H8	1.61	0.43
85:2:1371:C:HO2'	85:2:1372:G:H8	1.65	0.43
85:2:1398:G:O2'	85:2:1399:G:H8	2.01	0.43
85:2:1404:C:H3'	85:2:1405:A:H5'	1.99	0.43
85:2:1448:U:HO2'	85:2:1449:A:P	2.41	0.43
85:2:1504:G:C2	85:2:1505:G:C8	3.06	0.43
85:2:1757:A:C5	85:2:1758:C:C5	3.06	0.43
85:2:1903:A:C5	85:2:1926:G:N1	2.86	0.43
85:2:1926:G:O2'	85:2:1927:A:O4'	2.34	0.43
86:Az:41:MET:CE	86:Az:62:ILE:CG1	2.81	0.43
88:BK:69:ALA:O	88:BK:73:ALA:N	2.50	0.43
89:Bk:68:PRO:HB3	89:Bk:96:HIS:CE1	2.45	0.43
3:Ac:136:SER:O	3:Ac:138:ALA:N	2.51	0.43
3:Ac:224:ARG:HG3	43:1:724:G:H22	1.83	0.43
4:AD:126:ASN:OD1	4:AD:126:ASN:N	2.44	0.43
5:Ad:97:GLN:O	5:Ad:99:GLU:HG2	2.18	0.43
5:Ad:127:GLN:HE21	43:1:766:G:P	2.40	0.43
8:Ag:46:VAL:HG11	8:Ag:69:PHE:CD1	2.53	0.43
15:Ao:73:LEU:HD12	15:Ao:73:LEU:HA	1.81	0.43
16:Ap:131:PRO:HG2	16:Ap:133:ILE:HG23	2.00	0.43
25:Ay:31:ILE:N	25:Ay:32:ARG:HH11	2.16	0.43
25:Ay:89:THR:HG22	25:Ay:93:MET:SD	2.57	0.43
35:AK:67:ASP:OD1	35:AK:68:TRP:N	2.50	0.43
36:AL:29:ARG:NH2	43:1:1097:U:H3'	2.33	0.43
39:AO:179:ALA:O	39:AO:183:GLU:HG3	2.17	0.43
39:AO:201:ARG:HA	39:AO:201:ARG:HH21	1.82	0.43
39:AO:271:ILE:O	39:AO:274:TYR:HB2	2.17	0.43
43:1:123:G:C6	43:1:124:U:N3	2.86	0.43
43:1:132:C:HO2'	43:1:133:U:C5'	2.31	0.43
43:1:241:G:C6	43:1:242:A:C5	3.06	0.43
43:1:956:U:H2'	43:1:957:U:H6	1.81	0.43
43:1:977:A:N6	43:1:978:G:O6	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:990:U:C1'	43:1:991:C:H5	2.29	0.43
43:1:1154:C:H5''	43:1:1155:C:OP2	2.18	0.43
43:1:1571:U:O2'	43:1:1574:A:H2'	2.18	0.43
43:1:1655:C:O2'	43:1:3004:G:N2	2.29	0.43
43:1:2016:G:O6	43:1:2079:A:N6	2.52	0.43
43:1:2324:A:C5	43:1:2325:A:N7	2.86	0.43
43:1:2391:A:C6	43:1:2543:A:C6	3.06	0.43
43:1:2601:A:H2'	43:1:2602:G:H8	1.83	0.43
43:1:2979:C:H2'	43:1:2980:A:H8	1.82	0.43
43:1:3141:A:O2'	43:1:3142:A:OP2	2.34	0.43
48:Bi:144:ALA:HB1	48:Bi:210:LEU:HD21	1.99	0.43
49:Bl:62:GLN:HA	49:Bl:65:CYS:SG	2.58	0.43
49:Bl:116:ARG:NH2	49:Bl:120:HIS:HB2	2.22	0.43
51:Br:160:SER:OG	51:Br:161:ARG:N	2.50	0.43
54:Bz:309:LYS:HG2	85:2:1628:G:H2'	2.00	0.43
54:Bz:315:MET:HE2	54:Bz:349:ILE:HB	1.99	0.43
54:Bz:401:MET:O	54:Bz:405:GLN:HG2	2.18	0.43
56:Bt:74:LYS:HB3	85:2:1635:G:C6	2.53	0.43
57:BG:56:SER:CB	57:BG:89:VAL:HA	2.48	0.43
61:Bc:32:ARG:NH1	61:Bc:118:GLU:HG3	2.09	0.43
61:Bc:331:PHE:HA	76:BD:303:PHE:CE2	2.53	0.43
62:Bd:418:LEU:HD23	62:Bd:418:LEU:HA	1.77	0.43
62:Bd:427:HIS:CE1	62:Bd:449:THR:HG22	2.54	0.43
62:Bd:429:ILE:HB	62:Bd:471:ILE:HD11	2.00	0.43
63:Be:59:HIS:CD2	63:Be:60:TYR:CZ	3.06	0.43
65:Bj:208:THR:HG23	65:Bj:216:VAL:HG23	2.01	0.43
65:Bj:262:VAL:HG21	65:Bj:271:LYS:HG2	2.00	0.43
72:Bv:65:LYS:HE3	72:Bv:65:LYS:HB3	1.91	0.43
77:BE:66:SER:O	77:BE:70:VAL:HG22	2.18	0.43
77:BE:169:VAL:HG12	77:BE:208:ASN:OD1	2.18	0.43
85:2:24:A:O2'	85:2:25:U:H5'	2.18	0.43
85:2:25:U:H1'	85:2:1072:A:N3	2.34	0.43
85:2:564:G:HO2'	85:2:565:G:P	2.41	0.43
85:2:627:U:H3'	85:2:628:G:H5'	2.00	0.43
85:2:750:G:C2	85:2:751:C:C4	3.06	0.43
85:2:783:G:N1	85:2:794:C:C4	2.86	0.43
85:2:853:C:HO2'	85:2:854:A:P	2.41	0.43
85:2:910:G:C2	85:2:911:A:C4	3.06	0.43
85:2:924:C:HO2'	85:2:925:U:C5'	2.30	0.43
88:BK:182:ALA:CB	88:BK:217:ALA:CA	2.96	0.43
2:Ab:71:GLY:O	2:Ab:96:LYS:NZ	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ab:73:ILE:HG13	2:Ab:94:ASN:HB2	2.00	0.43
2:Ab:155:ARG:NH2	43:1:2144:U:OP2	2.51	0.43
3:Ac:164:LEU:HD12	3:Ac:164:LEU:HA	1.88	0.43
4:AD:135:GLU:OE2	43:1:2659:G:H4'	2.19	0.43
5:Ad:167:GLY:O	5:Ad:173:GLY:HA3	2.18	0.43
6:Ae:131:MET:HG3	6:Ae:157:VAL:HG13	2.00	0.43
12:Al:77:LEU:HA	12:Al:77:LEU:HD23	1.71	0.43
17:Aq:26:GLU:CD	43:1:1408:G:H22	2.24	0.43
18:Ar:209:ASP:CG	18:Ar:210:GLU:N	2.75	0.43
19:As:214:THR:HG23	19:As:215:ALA:N	2.33	0.43
21:Au:92:VAL:HG23	21:Au:93:GLY:N	2.28	0.43
21:Au:96:TYR:O	21:Au:96:TYR:CG	2.71	0.43
23:Aw:57:ASN:HB2	43:1:2579:G:OP2	2.18	0.43
31:AG:62:ASN:OD1	31:AG:62:ASN:N	2.51	0.43
33:AI:200:TYR:O	33:AI:201:ASP:HB2	2.17	0.43
35:AK:82:LYS:HZ1	43:1:2181:U:P	2.41	0.43
39:AO:175:GLU:H	39:AO:175:GLU:CD	2.25	0.43
39:AO:219:MET:SD	39:AO:227:PRO:HG3	2.57	0.43
39:AO:473:ASN:OD1	39:AO:473:ASN:N	2.51	0.43
40:AP:469:ALA:O	40:AP:473:ALA:HB2	2.18	0.43
40:AP:494:ALA:C	40:AP:496:ALA:H	2.25	0.43
43:1:110:C:H2'	43:1:111:G:O4'	2.18	0.43
43:1:127:C:N3	43:1:158:A:N1	2.66	0.43
43:1:227:G:O2'	43:1:239:G:C6	2.71	0.43
43:1:245:G:O2'	43:1:757:A:N6	2.42	0.43
43:1:815:C:C2	43:1:953:G:N2	2.86	0.43
43:1:977:A:C5	43:1:978:G:N7	2.86	0.43
43:1:984:A:C5	43:1:985:U:C4	3.06	0.43
43:1:1014:A:C2	43:1:1055:G:C2	3.06	0.43
43:1:1160:G:C4	43:1:1162:A:C8	3.05	0.43
43:1:1250:U:C5	43:1:1251:C:H5	2.36	0.43
43:1:1415:G:H2'	43:1:1416:A:C8	2.53	0.43
43:1:1541:G:H2'	43:1:1542:G:H5''	2.00	0.43
43:1:1675:U:O2'	43:1:1676:C:O5'	2.28	0.43
43:1:1876:G:O2'	43:1:1877:G:C8	2.71	0.43
43:1:2610:U:C2	43:1:2611:C:C6	3.06	0.43
43:1:2649:G:C2	43:1:2663:G:C5	3.06	0.43
43:1:2852:U:C2	43:1:2853:U:H5	2.37	0.43
43:1:3131:G:C2	43:1:3135:G:C6	3.06	0.43
44:3:25:G:H22	44:3:65:G:H22	1.64	0.43
44:3:31:A:C6	44:3:32:C:C4	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:3:83:U:H2'	44:3:84:G:C8	2.51	0.43
46:Bf:12:ILE:HA	46:Bf:15:LEU:HB2	2.01	0.43
46:Bf:111:SER:HA	46:Bf:114:GLU:HG2	2.00	0.43
51:Br:159:TRP:C	51:Br:161:ARG:HG2	2.44	0.43
52:Bw:252:PHE:CG	52:Bw:252:PHE:O	2.71	0.43
52:Bw:310:MET:HA	52:Bw:338:ARG:HH22	1.83	0.43
52:Bw:461:ILE:CA	52:Bw:464:LEU:HB3	2.46	0.43
61:Bc:181:GLY:C	61:Bc:183:LEU:H	2.26	0.43
64:Bg:3:ARG:HG2	85:2:585:G:OP1	2.18	0.43
67:Bo:18:PHE:CD1	67:Bo:42:PRO:HG3	2.53	0.43
72:Bv:68:GLN:HA	72:Bv:72:ASP:OD1	2.18	0.43
77:BE:279:VAL:HB	77:BE:317:LEU:CD1	2.47	0.43
85:2:149:G:O2'	85:2:150:A:OP2	2.27	0.43
85:2:250:A:C4	85:2:251:G:C8	3.06	0.43
85:2:356:G:C2	85:2:357:A:C4	3.07	0.43
85:2:388:G:N1	85:2:389:G:C5	2.86	0.43
85:2:585:G:C6	85:2:586:U:C4	3.05	0.43
85:2:597:G:H2'	85:2:598:A:H8	1.84	0.43
85:2:607:G:H2'	85:2:608:U:C6	2.51	0.43
85:2:620:G:N1	85:2:621:G:C6	2.87	0.43
85:2:963:C:H5''	85:2:964:G:OP1	2.18	0.43
85:2:987:A:H8	85:2:987:A:O5'	2.01	0.43
85:2:996:C:H2'	85:2:997:A:C4	2.53	0.43
85:2:1045:G:O2'	85:2:1046:C:OP2	2.33	0.43
85:2:1053:G:O6	85:2:1547:A:N6	2.51	0.43
85:2:1068:C:N4	85:2:1069:G:O6	2.51	0.43
85:2:1165:C:O2'	85:2:1166:A:OP2	2.36	0.43
85:2:1426:G:HO2'	85:2:1427:G:H8	1.59	0.43
85:2:1446:A:HO2'	85:2:1447:G:P	2.41	0.43
85:2:1516:G:H22	85:2:1519:A:P	2.37	0.43
85:2:1665:G:C2	85:2:1667:A:H5'	2.53	0.43
85:2:1714:G:C5	85:2:1715:C:C5	3.06	0.43
85:2:1818:A:O2'	85:2:1819:A:H5'	2.17	0.43
85:2:1824:A:H4'	85:2:1825:G:OP1	2.18	0.43
85:2:1892:C:C2	85:2:1893:G:C8	3.06	0.43
85:2:1892:C:C4	85:2:1893:G:N7	2.87	0.43
89:Bk:63:ILE:HD12	89:Bk:63:ILE:C	2.44	0.43
3:Ac:134:HIS:CE1	43:1:3104:C:H5''	2.53	0.43
6:Ae:20:LEU:HB2	6:Ae:22:TYR:CE2	2.53	0.43
10:Aj:33:ARG:HA	10:Aj:155:GLU:O	2.19	0.43
10:Aj:41:VAL:HA	10:Aj:80:GLY:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Aj:110:MET:SD	10:Aj:117:VAL:HG21	2.58	0.43
15:Ao:92:GLU:OE1	15:Ao:92:GLU:N	2.50	0.43
17:Aq:81:ARG:HH11	43:1:1146:G:H5'	1.83	0.43
19:As:126:LEU:HD13	27:AB:102:LEU:HB3	2.01	0.43
20:At:101:VAL:O	20:At:102:LYS:HG2	2.18	0.43
21:Au:47:VAL:CG2	21:Au:50:LYS:HD2	2.47	0.43
22:Av:61:VAL:HG11	44:3:78:U:H1'	1.99	0.43
22:Av:204:LEU:HG	22:Av:235:ILE:HG12	2.00	0.43
23:Aw:57:ASN:ND2	43:1:2580:A:OP2	2.37	0.43
23:Aw:57:ASN:HD22	43:1:2579:G:P	2.40	0.43
23:Aw:94:ASP:H	23:Aw:126:HIS:HB2	1.83	0.43
37:AM:46:ASN:N	37:AM:47:PRO:HD3	2.33	0.43
40:AP:608:ALA:HB1	43:1:267:G:C2	2.53	0.43
41:AQ:407:ILE:O	41:AQ:409:ARG:N	2.51	0.43
41:AQ:443:ASN:HD22	41:AQ:446:THR:HA	1.83	0.43
43:1:31:A:C4	43:1:655:A:C6	3.06	0.43
43:1:440:G:H22	43:1:443:A:P	2.41	0.43
43:1:611:A:C2	43:1:612:A:C5	3.06	0.43
43:1:1051:C:H2'	43:1:1052:A:C8	2.53	0.43
43:1:1465:A:H61	43:1:1943:A:H61	1.64	0.43
43:1:1908:G:N1	43:1:1923:C:N3	2.66	0.43
43:1:2160:C:C2	43:1:2161:U:C6	3.07	0.43
43:1:2252:C:C4	43:1:2253:C:C4	3.06	0.43
43:1:2528:C:C4	43:1:2529:A:C5	3.06	0.43
43:1:2582:G:H2'	43:1:2583:U:C6	2.53	0.43
43:1:2852:U:C2	43:1:2853:U:C5	3.07	0.43
43:1:2989:U:O2'	43:1:2990:G:H5'	2.18	0.43
43:1:3023:A:H1'	43:1:3147:U:O2'	2.18	0.43
43:1:3091:U:O2	43:1:3110:U:O2'	2.28	0.43
45:Bb:352:ASN:O	45:Bb:356:ARG:HB2	2.17	0.43
48:Bi:154:VAL:CG1	48:Bi:156:MET:HG2	2.48	0.43
52:Bw:169:SER:HB2	52:Bw:442:TYR:OH	2.18	0.43
60:Ba:96:ARG:O	60:Ba:99:ASN:HB2	2.18	0.43
64:Bg:8:ASP:OD1	85:2:822:G:O2'	2.23	0.43
85:2:69:G:C6	85:2:171:G:N1	2.87	0.43
85:2:264:U:N3	85:2:303:G:C6	2.86	0.43
85:2:428:G:H1'	85:2:453:G:N1	2.34	0.43
85:2:991:A:C5	85:2:992:U:C4	3.06	0.43
85:2:1173:C:O2'	85:2:1174:G:H8	2.01	0.43
85:2:1407:G:OP1	88:BK:18:ALA:CB	2.66	0.43
85:2:1587:C:O2'	85:2:1649:G:N1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1706:A:H2	85:2:1714:G:C2	2.34	0.43
85:2:1712:A:O2'	85:2:1714:G:N7	2.37	0.43
85:2:1801:A:C2	85:2:1845:G:N1	2.86	0.43
85:2:1839:U:H2'	85:2:1840:U:H6	1.79	0.43
85:2:1912:G:N2	85:2:1914:A:OP2	2.52	0.43
87:Ah:118:GLU:O	87:Ah:118:GLU:CG	2.67	0.43
88:BK:93:ALA:HB2	88:BK:124:ALA:CB	2.48	0.43
3:Ac:141:GLY:C	43:1:3081:U:H4'	2.44	0.43
3:Ac:173:VAL:HG11	3:Ac:261:LEU:O	2.18	0.43
3:Ac:277:PHE:C	3:Ac:278:ILE:HG13	2.42	0.43
6:Ae:111:THR:HG21	26:AA:44:MET:SD	2.59	0.43
10:Aj:90:PHE:HD2	10:Aj:103:GLU:HG2	1.83	0.43
11:Ak:112:GLN:HB2	11:Ak:120:GLU:CD	2.44	0.43
12:Al:125:GLY:HA2	43:1:2713:G:O3'	2.18	0.43
18:Ar:178:VAL:HG11	18:Ar:181:LEU:HD11	2.01	0.43
18:Ar:186:GLN:CD	18:Ar:186:GLN:N	2.77	0.43
18:Ar:211:LYS:HA	18:Ar:230:ARG:HD2	2.01	0.43
20:At:12:PHE:HD2	25:Ay:77:TRP:CD2	2.35	0.43
20:At:98:LEU:HD12	25:Ay:42:PHE:HD1	1.83	0.43
22:Av:166:ASP:OD1	22:Av:167:HIS:N	2.47	0.43
23:Aw:63:PRO:HB2	23:Aw:65:PHE:CE1	2.54	0.43
27:AB:118:LYS:HD3	27:AB:124:CYS:HB2	1.99	0.43
30:AF:169:LYS:O	30:AF:173:LYS:HG3	2.18	0.43
31:AG:37:LYS:O	43:1:121:C:O2'	2.19	0.43
33:AI:103:LEU:HD23	33:AI:103:LEU:HA	1.76	0.43
33:AI:202:ILE:HG23	33:AI:203:SER:N	2.33	0.43
34:AJ:43:VAL:O	34:AJ:44:LEU:HD22	2.17	0.43
39:AO:51:LYS:HA	39:AO:51:LYS:HD2	1.79	0.43
39:AO:197:ASN:ND2	43:1:1642:C:H41	2.16	0.43
39:AO:299:ASN:ND2	39:AO:331:THR:O	2.51	0.43
40:AP:173:ALA:HA	40:AP:176:ALA:HB2	2.00	0.43
40:AP:611:ALA:HA	40:AP:615:ALA:HB3	2.00	0.43
41:AQ:190:ARG:NH1	43:1:1917:U:O4	2.52	0.43
41:AQ:358:GLU:O	41:AQ:361:LEU:HG	2.19	0.43
43:1:426:A:H2'	43:1:427:U:C6	2.54	0.43
43:1:593:G:C2	43:1:599:G:C2	3.07	0.43
43:1:687:G:HO2'	43:1:688:U:P	2.41	0.43
43:1:757:A:C6	43:1:758:A:C6	3.06	0.43
43:1:997:C:N4	43:1:998:C:N4	2.66	0.43
43:1:1053:G:O5'	43:1:1053:G:H8	2.01	0.43
43:1:1139:A:N6	43:1:1342:A:H1'	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1218:A:C2	43:1:1245:A:H5''	2.54	0.43
43:1:1228:C:N4	43:1:1237:A:O4'	2.51	0.43
43:1:1431:A:N6	43:1:1452:G:H4'	2.33	0.43
43:1:1474:G:C6	43:1:1475:C:C4	3.07	0.43
43:1:1665:C:N4	43:1:1878:U:C2	2.87	0.43
43:1:2634:A:O5'	43:1:2634:A:H8	2.02	0.43
43:1:2825:U:H2'	43:1:2826:U:C6	2.53	0.43
43:1:3078:U:H2'	43:1:3079:U:C6	2.53	0.43
43:1:3117:G:C2	43:1:3118:A:C4	3.06	0.43
44:3:97:A:C4	44:3:98:G:N7	2.87	0.43
44:3:117:G:C2'	44:3:118:A:H5'	2.49	0.43
45:Bb:523:PRO:HB3	45:Bb:536:LYS:HG2	2.00	0.43
47:Bh:420:LYS:HZ2	47:Bh:423:LYS:HD3	1.84	0.43
50:Bm:99:LEU:N	50:Bm:100:PRO:HD2	2.33	0.43
51:Br:156:ARG:O	51:Br:158:ILE:HG12	2.18	0.43
54:Bz:405:GLN:HA	54:Bz:408:ILE:HD12	2.00	0.43
60:Ba:44:ASP:N	60:Ba:44:ASP:OD1	2.48	0.43
61:Bc:178:LYS:HG3	61:Bc:309:ILE:HD13	1.99	0.43
64:Bg:29:ILE:HG12	64:Bg:58:GLY:HA2	2.00	0.43
65:Bj:251:LYS:HZ1	65:Bj:285:SER:CB	2.20	0.43
65:Bj:302:ALA:O	65:Bj:304:ASN:N	2.51	0.43
66:Bn:345:GLU:HB2	72:Bv:150:TRP:CH2	2.53	0.43
70:Bs:46:LYS:O	70:Bs:50:SER:OG	2.31	0.43
75:BC:76:LEU:HD11	85:2:467:U:H3'	1.99	0.43
75:BC:106:ARG:HG3	75:BC:108:ASP:OD1	2.18	0.43
77:BE:126:LEU:O	77:BE:130:VAL:HG23	2.19	0.43
79:BJ:99:ALA:O	79:BJ:102:ALA:HB3	2.18	0.43
85:2:14:G:N1	85:2:317:U:H1'	2.34	0.43
85:2:67:A:C4	85:2:350:G:C2	3.07	0.43
85:2:201:G:C6	85:2:246:G:C6	3.07	0.43
85:2:207:U:C4	85:2:239:G:O6	2.71	0.43
85:2:448:G:H5'	85:2:450:A:O4'	2.19	0.43
85:2:516:C:H2'	85:2:517:A:O4'	2.19	0.43
85:2:574:G:O6	85:2:761:G:N2	2.52	0.43
85:2:1025:C:O2'	85:2:1026:U:H5''	2.19	0.43
85:2:1177:U:O4	85:2:1178:G:N1	2.51	0.43
85:2:1507:A:C5	85:2:1530:A:C6	3.06	0.43
85:2:1790:G:C5	85:2:1791:A:C6	3.06	0.43
88:BK:33:ALA:HB3	88:BK:64:ALA:HB1	1.99	0.43
88:BK:50:ALA:HB3	88:BK:54:ALA:N	2.32	0.43
88:BK:268:ALA:CA	88:BK:277:ALA:HB2	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
89:Bk:90:LEU:HD22	89:Bk:91:PRO:HD2	2.00	0.43
1:Aa:22:ARG:HA	1:Aa:27:ARG:O	2.18	0.43
1:Aa:91:PRO:HA	1:Aa:92:PRO:HD3	1.87	0.43
3:Ac:99:ILE:HG23	3:Ac:263:TRP:HB3	2.00	0.43
6:Ae:45:ILE:HG13	6:Ae:46:ILE:N	2.32	0.43
7:Af:5:PHE:HA	34:AJ:48:ARG:HH21	1.84	0.43
9:Ai:23:ALA:HA	9:Ai:50:PHE:HE1	1.82	0.43
10:Aj:58:LYS:HE2	10:Aj:58:LYS:HB3	1.79	0.43
11:Ak:155:HIS:CE1	16:Ap:145:VAL:HG11	2.45	0.43
12:Al:162:LEU:HD23	12:Al:162:LEU:HA	1.87	0.43
12:Al:214:ARG:N	12:Al:251:LYS:HD3	2.33	0.43
13:Am:104:ARG:NH2	22:Av:173:LYS:O	2.51	0.43
14:An:18:LEU:HD23	14:An:18:LEU:HA	1.70	0.43
17:Aq:21:ILE:N	43:1:731:C:OP1	2.49	0.43
19:As:141:VAL:CG1	27:AB:119:LEU:HG	2.49	0.43
33:AI:50:PHE:CD1	33:AI:53:PHE:HD2	2.37	0.43
33:AI:211:VAL:HA	33:AI:219:PHE:HZ	1.83	0.43
39:AO:419:TYR:O	39:AO:423:LYS:HB2	2.18	0.43
41:AQ:368:TYR:HE1	41:AQ:376:GLY:HA3	1.82	0.43
43:1:179:G:C2	43:1:187:U:O2	2.71	0.43
43:1:201:A:C8	43:1:573:A:N6	2.87	0.43
43:1:275:A:O2'	43:1:276:A:O4'	2.35	0.43
43:1:460:G:C6	43:1:461:U:C4	3.07	0.43
43:1:487:G:O2'	43:1:488:G:P	2.77	0.43
43:1:674:A:OP1	43:1:711:G:N2	2.51	0.43
43:1:686:A:C4	43:1:700:A:C6	3.07	0.43
43:1:928:G:H5'	43:1:929:G:OP1	2.18	0.43
43:1:1071:G:H2'	43:1:1072:C:C6	2.53	0.43
43:1:1120:C:H2'	43:1:1121:G:O4'	2.18	0.43
43:1:1125:G:H2'	43:1:1125:G:N3	2.33	0.43
43:1:1155:C:H5''	43:1:1156:C:OP2	2.19	0.43
43:1:1211:G:C2	43:1:1237:A:C2	3.06	0.43
43:1:1547:C:O2'	43:1:1548:G:O5'	2.35	0.43
43:1:1593:G:N1	43:1:1616:G:N1	2.66	0.43
43:1:1669:G:O6	43:1:1875:A:N6	2.51	0.43
43:1:1907:G:C6	43:1:1924:G:C6	3.07	0.43
43:1:2022:G:C2	43:1:2023:U:C2	3.06	0.43
43:1:2148:A:C6	43:1:2286:G:N1	2.87	0.43
43:1:2407:A:H2'	43:1:2408:A:C1'	2.48	0.43
43:1:2628:G:C2	43:1:2684:A:C2	3.07	0.43
43:1:2811:A:C4	43:1:2812:U:C5	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2953:C:H2'	43:1:2954:C:C6	2.53	0.43
43:1:3138:G:C2	43:1:3139:U:C2	3.07	0.43
44:3:63:U:H2'	44:3:64:C:O4'	2.18	0.43
45:Bb:6:ASN:HB2	45:Bb:7:PRO:HD2	2.00	0.43
45:Bb:40:SER:HG	53:Bx:60:LYS:HZ1	1.55	0.43
46:Bf:14:LYS:HB3	46:Bf:18:PHE:CE2	2.53	0.43
47:Bh:315:SER:OG	47:Bh:370:GLY:HA3	2.18	0.43
47:Bh:361:TRP:CZ3	47:Bh:387:LEU:HD22	2.54	0.43
62:Bd:399:LYS:NZ	85:2:1073:G:N7	2.66	0.43
67:Bo:61:TYR:O	67:Bo:65:VAL:HG23	2.18	0.43
68:Bp:41:MET:O	68:Bp:69:TRP:HB2	2.19	0.43
72:Bv:150:TRP:O	72:Bv:153:MET:HB3	2.17	0.43
85:2:183:A:N3	85:2:259:A:C8	2.87	0.43
85:2:276:U:N3	85:2:277:A:N6	2.66	0.43
85:2:378:G:C6	85:2:379:G:C5	3.07	0.43
85:2:431:G:H1'	85:2:448:G:H21	1.84	0.43
85:2:463:C:H2'	85:2:464:G:H8	1.84	0.43
85:2:479:A:N3	85:2:479:A:H2'	2.34	0.43
85:2:639:C:C4	85:2:640:A:N7	2.86	0.43
85:2:924:C:O2'	85:2:925:U:O4'	2.36	0.43
85:2:964:G:OP1	85:2:964:G:H3'	2.17	0.43
85:2:1128:U:C2	85:2:1129:G:C8	3.07	0.43
86:Az:27:LEU:HD12	86:Az:30:THR:CG2	2.42	0.43
2:Ab:196:LYS:HD2	2:Ab:200:VAL:HG12	2.00	0.43
3:Ac:206:PRO:HB2	3:Ac:209:HIS:HD2	1.84	0.43
5:Ad:120:ILE:HG22	12:Al:69:LEU:HD13	2.00	0.43
17:Aq:52:GLU:H	17:Aq:52:GLU:HG3	1.66	0.43
21:Au:137:ASP:CB	31:AG:74:LYS:HB2	2.49	0.43
22:Av:109:LEU:HD11	22:Av:145:PHE:HD2	1.82	0.43
22:Av:234:LYS:O	22:Av:235:ILE:HG23	2.18	0.43
25:Ay:66:ARG:NH2	43:1:76:C:O3'	2.50	0.43
28:AC:56:LYS:O	28:AC:57:MET:C	2.62	0.43
34:AJ:64:VAL:HG13	34:AJ:85:LYS:CA	2.39	0.43
37:AM:91:LYS:O	37:AM:95:LYS:HG2	2.19	0.43
39:AO:219:MET:HE3	39:AO:219:MET:HB3	1.87	0.43
40:AP:303:ALA:HB1	40:AP:306:ALA:C	2.44	0.43
40:AP:755:ALA:HA	40:AP:759:ALA:C	2.43	0.43
41:AQ:133:LEU:O	41:AQ:138:ASN:N	2.39	0.43
41:AQ:245:GLU:HA	41:AQ:248:CYS:HB2	2.00	0.43
43:1:306:C:O2	43:1:308:C:N4	2.51	0.43
43:1:463:A:H8	43:1:1366:G:C2	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:504:U:H2'	43:1:505:A:C8	2.54	0.43
43:1:1082:U:H2'	43:1:1083:U:C6	2.53	0.43
43:1:1084:G:C6	43:1:1085:U:C4	3.07	0.43
43:1:1149:A:N6	43:1:1305:A:C8	2.87	0.43
43:1:1211:G:H1'	43:1:1237:A:N7	2.33	0.43
43:1:1330:U:O5'	43:1:1330:U:H6	2.02	0.43
43:1:1332:U:O2'	43:1:1333:U:C6	2.72	0.43
43:1:1596:G:H21	43:1:1613:G:H4'	1.84	0.43
43:1:1673:C:H42	43:1:1871:A:N6	2.17	0.43
43:1:2017:A:C4	43:1:2018:C:C5	3.06	0.43
43:1:2065:A:C2	43:1:2066:A:C5	3.06	0.43
43:1:2125:U:O2'	43:1:2126:A:O4'	2.37	0.43
43:1:2220:A:C4	43:1:2233:G:N2	2.87	0.43
43:1:2298:C:H2'	43:1:2299:C:C6	2.54	0.43
43:1:2441:C:H4'	43:1:2444:G:O2'	2.19	0.43
43:1:2768:G:O6	43:1:2779:G:N2	2.52	0.43
43:1:2986:U:H2'	43:1:2987:G:O4'	2.19	0.43
45:Bb:68:ARG:HD3	48:Bi:209:ILE:HG21	2.01	0.43
45:Bb:537:VAL:C	45:Bb:538:TRP:CD1	2.96	0.43
46:Bf:112:PHE:O	46:Bf:115:ILE:HG22	2.19	0.43
49:Bl:33:ARG:HG3	49:Bl:35:GLY:H	1.82	0.43
51:Br:149:LYS:CE	51:Br:158:ILE:CD1	2.96	0.43
54:Bz:293:TRP:CZ3	54:Bz:361:ARG:HD3	2.53	0.43
60:Ba:106:PHE:CD2	60:Ba:107:LEU:HD23	2.53	0.43
61:Bc:97:ILE:HD13	61:Bc:97:ILE:HA	1.88	0.43
62:Bd:297:GLU:OE1	62:Bd:297:GLU:N	2.52	0.43
63:Be:10:PHE:HB2	63:Be:63:GLN:HB2	2.01	0.43
65:Bj:291:PRO:HG3	70:Bs:34:ASN:CG	2.44	0.43
68:Bp:56:LYS:O	68:Bp:57:LEU:HD23	2.18	0.43
72:Bv:125:ALA:CA	72:Bv:128:ARG:HE	2.29	0.43
79:BJ:89:ALA:HB2	79:BJ:116:ALA:HA	1.99	0.43
85:2:165:A:C5	85:2:166:G:C5	3.06	0.43
85:2:232:A:OP1	85:2:232:A:C2	2.72	0.43
85:2:235:A:H2'	85:2:236:A:N3	2.33	0.43
85:2:321:G:N3	85:2:322:A:C8	2.87	0.43
85:2:614:A:H2'	85:2:614:A:N3	2.34	0.43
85:2:714:C:O2'	85:2:715:C:H5'	2.19	0.43
85:2:1165:C:HO2'	85:2:1166:A:H5''	1.73	0.43
85:2:1444:U:O2'	85:2:1445:U:C6	2.65	0.43
85:2:1587:C:N4	85:2:1685:U:N3	2.66	0.43
85:2:1784:G:H2'	85:2:1785:C:H6	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1837:C:H2'	85:2:1838:U:C5	2.52	0.43
85:2:1866:G:N1	85:2:1867:G:C5	2.87	0.43
88:BK:83:ALA:O	88:BK:84:ALA:HB3	2.19	0.43
89:Bk:40:ARG:HD3	89:Bk:90:LEU:HD11	1.99	0.43
3:Ac:131:LYS:HG3	16:Ap:102:PHE:CZ	2.53	0.43
5:Ad:230:TYR:O	5:Ad:232:GLN:N	2.52	0.43
15:Ao:26:THR:HG22	15:Ao:28:LYS:N	2.30	0.43
16:Ap:156:LYS:HB2	16:Ap:156:LYS:HE3	1.86	0.43
17:Aq:5:GLU:CD	43:1:1383:C:H41	2.26	0.43
18:Ar:205:GLU:OE1	32:AH:118:LEU:N	2.52	0.43
22:Av:56:GLY:HA2	22:Av:87:LYS:NZ	2.33	0.43
22:Av:216:VAL:HG23	22:Av:216:VAL:O	2.18	0.43
22:Av:229:THR:O	22:Av:229:THR:HG22	2.19	0.43
25:Ay:94:LEU:HD23	25:Ay:94:LEU:HA	1.63	0.43
28:AC:27:ARG:CZ	43:1:2587:C:C5	3.02	0.43
32:AH:37:LEU:HA	32:AH:40:LYS:HE3	2.01	0.43
39:AO:89:THR:HG22	43:1:1570:C:H42	1.83	0.43
43:1:33:G:C6	43:1:34:C:C4	3.07	0.43
43:1:127:C:N4	43:1:128:C:N4	2.67	0.43
43:1:236:A:H2'	43:1:237:G:O4'	2.18	0.43
43:1:432:A:C6	43:1:433:A:C6	3.06	0.43
43:1:460:G:H2'	43:1:461:U:C6	2.53	0.43
43:1:644:U:C4	43:1:647:A:N6	2.87	0.43
43:1:690:A:C5	43:1:691:A:C5	3.06	0.43
43:1:708:G:C2	43:1:709:G:N7	2.87	0.43
43:1:833:G:H2'	43:1:834:C:C6	2.54	0.43
43:1:938:G:C2	43:1:939:A:C4	3.07	0.43
43:1:1150:A:N1	43:1:1304:G:O2'	2.42	0.43
43:1:1154:C:C5	43:1:1293:A:C4	3.06	0.43
43:1:1206:A:C2	43:1:1207:G:C5	3.07	0.43
43:1:1286:G:H2'	43:1:1287:G:O4'	2.18	0.43
43:1:1351:A:C2	43:1:1352:C:C5	3.07	0.43
43:1:1903:A:O2'	43:1:1904:A:H8	2.00	0.43
43:1:2249:A:O2'	43:1:2250:U:H5'	2.19	0.43
43:1:2315:G:C6	43:1:2316:A:C5	3.07	0.43
43:1:2359:G:C6	43:1:2360:G:C5	3.06	0.43
43:1:2641:C:O2'	43:1:2642:U:H5'	2.18	0.43
43:1:2660:G:C6	43:1:2661:U:C4	3.06	0.43
43:1:2814:A:O2'	43:1:2815:C:H5'	2.18	0.43
43:1:2994:C:C2	43:1:2995:G:C8	3.07	0.43
44:3:29:A:H2'	44:3:30:C:H6	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:3:35:G:C2	44:3:36:A:C5	3.07	0.43
48:Bi:130:ILE:HB	48:Bi:190:ILE:HD12	2.00	0.43
51:Br:168:GLU:H	51:Br:168:GLU:CD	2.27	0.43
52:Bw:419:VAL:HA	52:Bw:420:PRO:HD3	1.88	0.43
52:Bw:430:TYR:HB2	52:Bw:462:TYR:CE1	2.46	0.43
54:Bz:330:LYS:HE2	85:2:1130:C:OP2	2.19	0.43
62:Bd:454:LYS:HD3	62:Bd:454:LYS:HA	1.77	0.43
62:Bd:471:ILE:HA	62:Bd:471:ILE:HD13	1.70	0.43
62:Bd:512:LYS:HB3	76:BD:287:VAL:HG21	2.00	0.43
71:Bu:19:LEU:HG	71:Bu:19:LEU:O	2.19	0.43
76:BD:288:HIS:O	76:BD:289:TYR:HB3	2.18	0.43
77:BE:189:LEU:HD22	77:BE:200:LEU:HD12	2.01	0.43
85:2:210:G:C6	85:2:222:G:C5	3.07	0.43
85:2:480:C:C4	85:2:481:A:C5	3.07	0.43
85:2:514:G:N2	85:2:530:A:C8	2.87	0.43
85:2:649:G:C2	85:2:748:A:C4	3.07	0.43
85:2:890:C:H2'	85:2:891:G:C8	2.54	0.43
85:2:1000:A:H61	85:2:1027:C:C5'	2.32	0.43
85:2:1001:A:H4'	85:2:1001:A:OP1	2.18	0.43
85:2:1206:G:C6	85:2:1381:G:O2'	2.59	0.43
85:2:1458:C:C2	85:2:1459:A:C8	3.06	0.43
85:2:1801:A:N1	85:2:1845:G:C6	2.87	0.43
85:2:1813:U:C4	85:2:1814:G:N7	2.87	0.43
85:2:1911:G:C2	85:2:1912:G:C4	3.06	0.43
88:BK:93:ALA:CB	88:BK:124:ALA:HA	2.48	0.43
3:Ac:114:THR:OG1	3:Ac:117:LYS:HB3	2.18	0.43
3:Ac:205:MET:HB3	3:Ac:206:PRO:HD2	2.00	0.43
6:Ae:39:LYS:HB2	6:Ae:154:GLY:H	1.84	0.43
6:Ae:51:LEU:O	6:Ae:55:ILE:HG12	2.19	0.43
7:Af:10:LYS:HG2	7:Af:87:MET:O	2.19	0.43
10:Aj:130:ASN:ND2	43:1:708:G:OP2	2.43	0.43
12:Al:187:LYS:HE2	12:Al:187:LYS:HB2	1.84	0.43
15:Ao:26:THR:C	15:Ao:28:LYS:H	2.26	0.43
18:Ar:193:ILE:CD1	86:Az:90:LEU:HD13	2.49	0.43
22:Av:204:LEU:HD21	22:Av:234:LYS:O	2.18	0.43
26:AA:32:VAL:HB	44:3:38:C:OP1	2.19	0.43
26:AA:42:ARG:NH1	26:AA:64:GLU:HA	2.33	0.43
31:AG:44:THR:O	31:AG:55:VAL:HA	2.19	0.43
31:AG:68:LEU:HB2	31:AG:71:PHE:CZ	2.53	0.43
37:AM:49:VAL:HG11	37:AM:100:TRP:NE1	2.34	0.43
39:AO:76:LYS:NZ	43:1:1874:A:OP2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:AO:181:ILE:HG21	39:AO:199:TRP:CZ2	2.48	0.43
43:1:142:A:H1'	43:1:145:C:O2	2.18	0.43
43:1:146:U:N3	43:1:147:G:N7	2.67	0.43
43:1:251:G:C6	43:1:252:G:C5	3.07	0.43
43:1:423:G:C6	43:1:481:U:C2	3.06	0.43
43:1:474:G:C2	43:1:475:A:C4	3.06	0.43
43:1:608:G:H2'	43:1:609:G:O4'	2.18	0.43
43:1:887:A:C6	43:1:888:U:C4	3.07	0.43
43:1:1100:G:N2	43:1:2569:A:H8	2.15	0.43
43:1:1142:G:C6	43:1:1143:U:C4	3.07	0.43
43:1:1209:U:H4'	43:1:1210:G:O5'	2.18	0.43
43:1:1905:U:C2	43:1:1925:G:N1	2.84	0.43
43:1:1909:G:O2'	43:1:1910:A:C8	2.72	0.43
43:1:1947:C:C4	43:1:1948:G:C8	3.06	0.43
43:1:2362:U:H1'	43:1:2363:A:N7	2.34	0.43
43:1:2407:A:C6	43:1:2490:G:N1	2.86	0.43
43:1:2811:A:C5	43:1:2872:G:N1	2.87	0.43
43:1:2856:C:H2'	43:1:2857:C:O4'	2.19	0.43
43:1:3019:G:C6	43:1:3020:G:C5	3.07	0.43
45:Bb:351:ASN:O	45:Bb:353:LEU:N	2.52	0.43
48:Bi:219:HIS:ND1	54:Bz:294:GLN:OE1	2.52	0.43
49:Bl:114:CYS:HB3	49:Bl:117:GLY:HA3	2.01	0.43
51:Br:136:VAL:O	51:Br:136:VAL:CG2	2.62	0.43
54:Bz:394:LEU:HD11	85:2:1475:A:H62	1.84	0.43
61:Bc:141:ILE:HD11	61:Bc:144:PHE:HD1	1.83	0.43
61:Bc:144:PHE:CE2	61:Bc:146:LEU:HB3	2.54	0.43
61:Bc:260:LEU:HA	61:Bc:283:TYR:OH	2.18	0.43
68:Bp:5:ILE:HG21	68:Bp:54:ARG:HH12	1.83	0.43
72:Bv:68:GLN:O	72:Bv:72:ASP:CB	2.63	0.43
72:Bv:163:GLU:O	72:Bv:169:ARG:HG3	2.18	0.43
77:BE:366:PRO:HD2	77:BE:368:TRP:NE1	2.33	0.43
82:BM:52:ALA:C	82:BM:54:ALA:N	2.76	0.43
85:2:19:G:C6	85:2:20:U:C4	3.07	0.43
85:2:203:A:H2'	85:2:204:C:C6	2.53	0.43
85:2:288:G:C6	85:2:289:A:C5	3.07	0.43
85:2:610:G:C6	85:2:623:G:C6	3.06	0.43
85:2:628:G:C6	85:2:629:C:C4	3.06	0.43
85:2:750:G:C6	85:2:751:C:N4	2.87	0.43
85:2:752:U:H2'	85:2:754:G:O4'	2.19	0.43
85:2:765:G:C2	85:2:766:C:C6	3.07	0.43
85:2:765:G:C6	85:2:766:C:C5	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:879:G:H2'	85:2:880:G:O4'	2.19	0.43
85:2:1010:C:N3	85:2:1018:G:N1	2.67	0.43
85:2:1406:G:O2'	85:2:1407:G:O5'	2.37	0.43
85:2:1406:G:H4'	88:BK:18:ALA:CB	2.49	0.43
85:2:1731:C:H2'	85:2:1732:C:C6	2.54	0.43
85:2:1753:C:H1'	85:2:1895:A:C2	2.54	0.43
85:2:1807:G:C4	85:2:1808:A:C8	3.07	0.43
85:2:1843:G:C2	85:2:1844:U:C2	3.07	0.43
89:Bk:52:ILE:C	89:Bk:52:ILE:HD12	2.43	0.43
2:Ab:86:LYS:HD3	43:1:2117:C:O2'	2.19	0.43
6:Ae:137:GLU:OE2	49:Bl:33:ARG:NH1	2.52	0.43
12:Al:245:PRO:O	12:Al:247:LYS:N	2.52	0.43
17:Aq:18:LYS:HE3	43:1:22:A:OP2	2.18	0.43
18:Ar:142:ALA:O	18:Ar:153:VAL:HG12	2.19	0.43
22:Av:121:VAL:HB	22:Av:122:GLU:OE1	2.19	0.43
24:Ax:78:LYS:NZ	43:1:2495:A:O2'	2.51	0.43
25:Ay:44:PHE:O	25:Ay:44:PHE:CG	2.69	0.43
30:AF:192:LEU:HD23	30:AF:192:LEU:HA	1.87	0.43
32:AH:16:TYR:HD1	32:AH:17:CYS:O	2.02	0.43
33:AI:26:LYS:HB3	33:AI:185:TYR:HD1	1.82	0.43
33:AI:157:LEU:O	33:AI:200:TYR:OH	2.20	0.43
40:AP:605:ALA:C	40:AP:607:ALA:H	2.27	0.43
41:AQ:283:TYR:HD2	41:AQ:313:MET:HG2	1.84	0.43
41:AQ:393:ASN:CG	41:AQ:395:LYS:H	2.27	0.43
43:1:426:A:H2'	43:1:427:U:H6	1.83	0.43
43:1:526:C:N4	43:1:527:U:O4	2.52	0.43
43:1:722:A:N1	43:1:2344:A:C2	2.87	0.43
43:1:802:C:H2'	43:1:803:U:C6	2.47	0.43
43:1:980:G:C5	43:1:981:C:C5	3.06	0.43
43:1:1109:A:N7	43:1:1111:A:N7	2.67	0.43
43:1:1121:G:P	43:1:1123:G:H5'	2.59	0.43
43:1:1146:G:N2	43:1:1309:G:H1'	2.34	0.43
43:1:1163:A:C6	43:1:1164:U:C4	3.07	0.43
43:1:1201:C:H2'	43:1:1202:C:O4'	2.19	0.43
43:1:1314:G:C2	43:1:1315:A:C5	3.06	0.43
43:1:1323:A:C3'	43:1:1324:G:H8	2.28	0.43
43:1:2571:G:C5	43:1:2572:A:N7	2.87	0.43
43:1:2622:C:H6	43:1:2622:C:H2'	1.60	0.43
43:1:2901:G:C6	43:1:2902:U:C4	3.07	0.43
43:1:2953:C:N3	43:1:2972:G:N1	2.67	0.43
43:1:2973:U:H2'	43:1:2974:U:H6	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:3014:G:H4'	43:1:3015:C:O5'	2.17	0.43
44:3:77:A:N7	44:3:101:A:C2	2.87	0.43
45:Bb:41:TYR:C	45:Bb:43:GLY:H	2.26	0.43
45:Bb:419:GLU:HA	45:Bb:422:LYS:HB2	2.01	0.43
46:Bf:88:ALA:O	46:Bf:92:ILE:HG12	2.19	0.43
61:Bc:106:ARG:H	61:Bc:110:ILE:HD13	1.84	0.43
61:Bc:132:VAL:O	61:Bc:132:VAL:HG13	2.19	0.43
61:Bc:260:LEU:HD12	61:Bc:283:TYR:OH	2.19	0.43
65:Bj:221:THR:C	65:Bj:223:GLY:N	2.76	0.43
68:Bp:16:SER:OG	85:2:273:G:O3'	2.37	0.43
76:BD:211:ILE:HG22	76:BD:212:MET:N	2.32	0.43
76:BD:221:PHE:HZ	76:BD:314:TRP:CZ2	2.36	0.43
85:2:53:U:C2	85:2:54:G:C8	3.07	0.43
85:2:130:U:C2	85:2:131:G:C8	3.07	0.43
85:2:163:A:C5	85:2:164:A:N6	2.87	0.43
85:2:257:G:C6	85:2:258:U:N3	2.87	0.43
85:2:610:G:H2'	85:2:611:C:C6	2.54	0.43
85:2:911:A:C6	85:2:912:A:C5	3.07	0.43
85:2:991:A:N6	85:2:1036:A:N6	2.66	0.43
85:2:1089:C:C4	85:2:1090:U:C4	3.07	0.43
85:2:1378:U:O2'	85:2:1379:U:H5'	2.19	0.43
85:2:1443:U:O2'	85:2:1444:U:C6	2.70	0.43
85:2:1487:G:C6	85:2:1488:C:N4	2.87	0.43
85:2:1553:C:C4	85:2:1554:A:N7	2.87	0.43
85:2:1615:U:H2'	85:2:1616:G:H8	1.83	0.43
86:Az:44:ARG:HE	86:Az:44:ARG:HB2	1.44	0.43
86:Az:74:GLU:HG2	86:Az:76:MET:H	1.83	0.43
6:Ae:34:ILE:O	6:Ae:96:THR:HA	2.19	0.42
7:Af:93:VAL:O	7:Af:93:VAL:HG13	2.18	0.42
8:Ag:71:ASN:HD22	43:1:2495:A:H4'	1.84	0.42
9:Ai:26:ALA:HB1	9:Ai:47:CYS:SG	2.59	0.42
11:Ak:67:CYS:SG	11:Ak:69:GLN:N	2.89	0.42
11:Ak:141:ASP:O	11:Ak:142:ARG:HB2	2.18	0.42
18:Ar:207:ALA:HA	18:Ar:232:GLU:OE2	2.18	0.42
19:As:178:PHE:O	19:As:206:LEU:HG	2.18	0.42
25:Ay:105:GLU:OE1	25:Ay:105:GLU:N	2.52	0.42
34:Aj:67:ALA:HB3	43:1:1201:C:O2'	2.19	0.42
35:AK:44:TRP:CD1	35:AK:44:TRP:H	2.37	0.42
35:AK:74:ARG:NH1	43:1:559:C:OP2	2.52	0.42
39:AO:66:ARG:NH1	43:1:1644:C:H2'	2.33	0.42
39:AO:191:PRO:HB2	39:AO:195:THR:OG1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:AO:362:ARG:NH1	43:1:1837:G:O3'	2.51	0.42
39:AO:417:MET:SD	39:AO:454:THR:OG1	2.64	0.42
39:AO:429:ALA:O	39:AO:432:LEU:HB3	2.19	0.42
43:1:46:G:N1	43:1:47:A:C2	2.87	0.42
43:1:133:U:O2'	43:1:134:C:O5'	2.36	0.42
43:1:164:A:HO2'	43:1:165:A:P	2.42	0.42
43:1:429:G:C4	43:1:430:U:C5	3.07	0.42
43:1:458:A:H2'	43:1:459:G:O4'	2.19	0.42
43:1:510:G:C4	43:1:528:G:N2	2.87	0.42
43:1:524:U:N3	43:1:525:U:H1'	2.34	0.42
43:1:622:G:O2'	43:1:623:A:OP2	2.37	0.42
43:1:703:C:H2'	43:1:704:U:H6	1.83	0.42
43:1:1156:C:H5''	43:1:1157:U:H3'	2.01	0.42
43:1:1352:C:C4	43:1:1353:G:N7	2.87	0.42
43:1:1394:G:N2	43:1:1395:A:H1'	2.34	0.42
43:1:1437:G:H2'	43:1:1438:U:H6	1.82	0.42
43:1:1487:C:H2'	43:1:1488:U:C6	2.53	0.42
43:1:1667:U:O2'	43:1:1668:U:H5'	2.18	0.42
43:1:1897:A:N7	43:1:1898:C:C4	2.87	0.42
43:1:1975:A:C5	43:1:1976:G:C8	3.07	0.42
43:1:2048:C:H1'	43:1:2049:U:H5'	2.00	0.42
43:1:2064:A:N6	43:1:2065:A:N6	2.67	0.42
43:1:2327:U:H2'	43:1:2328:U:O4'	2.19	0.42
43:1:2528:C:H2'	43:1:2529:A:O4'	2.18	0.42
43:1:2865:G:H2'	43:1:2866:U:C6	2.54	0.42
43:1:2996:G:C2	43:1:3018:C:C2	3.07	0.42
43:1:3006:C:C2	43:1:3007:A:C8	3.07	0.42
47:Bh:311:ARG:HA	47:Bh:315:SER:O	2.18	0.42
52:Bw:225:MET:O	52:Bw:226:LEU:HD22	2.19	0.42
60:Ba:101:TRP:HA	60:Ba:101:TRP:CE3	2.54	0.42
60:Ba:161:ASP:HB3	60:Ba:162:PRO:HD2	2.00	0.42
61:Bc:171:TYR:CE1	76:BD:244:LEU:HD11	2.54	0.42
61:Bc:191:TRP:HE1	61:Bc:195:LYS:HE3	1.84	0.42
63:Be:33:ARG:NE	63:Be:78:GLU:OE1	2.52	0.42
64:Bg:93:LEU:HD12	64:Bg:93:LEU:H	1.83	0.42
65:Bj:312:ARG:NH2	85:2:793:C:H4'	2.34	0.42
66:Bn:316:ASP:HB3	66:Bn:319:PHE:CZ	2.54	0.42
68:Bp:34:VAL:HG22	68:Bp:35:LYS:N	2.34	0.42
75:BC:45:PHE:CD2	75:BC:67:LEU:HD11	2.54	0.42
79:BJ:7:ALA:C	79:BJ:9:ALA:H	2.27	0.42
79:BJ:277:ALA:CB	79:BJ:285:ALA:HB3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:218:U:H5'	85:2:228:A:C8	2.54	0.42
85:2:246:G:H2'	85:2:247:A:H8	1.83	0.42
85:2:461:G:C6	85:2:462:U:C5	3.06	0.42
85:2:530:A:C8	85:2:533:C:N4	2.87	0.42
85:2:541:G:H2'	85:2:542:C:O4'	2.18	0.42
85:2:574:G:H2'	85:2:575:C:C6	2.54	0.42
85:2:601:G:H2'	85:2:602:U:C6	2.54	0.42
85:2:613:A:H2'	85:2:614:A:C8	2.54	0.42
85:2:910:G:C2	85:2:911:A:C5	3.06	0.42
85:2:1083:C:H2'	85:2:1085:A:OP2	2.19	0.42
85:2:1107:U:H2'	85:2:1108:C:C6	2.54	0.42
85:2:1114:G:N1	85:2:1502:G:C6	2.87	0.42
85:2:1438:G:O2'	85:2:1439:U:P	2.77	0.42
85:2:1453:C:O2'	85:2:1454:C:C6	2.57	0.42
85:2:1604:G:C2	85:2:1605:G:C4	3.07	0.42
85:2:1828:C:O2'	85:2:1829:C:O5'	2.27	0.42
5:Ad:155:LYS:CB	5:Ad:158:GLY:H	2.33	0.42
10:Aj:40:GLN:HG2	10:Aj:41:VAL:N	2.34	0.42
14:An:98:ARG:HD2	14:An:100:ARG:HH12	1.83	0.42
20:At:27:ASN:OD1	20:At:27:ASN:N	2.53	0.42
20:At:98:LEU:HG	25:Ay:42:PHE:HE1	1.84	0.42
21:Au:56:HIS:NE2	43:1:638:G:O2'	2.46	0.42
22:Av:62:VAL:HG12	22:Av:145:PHE:HB2	1.99	0.42
22:Av:164:GLY:N	22:Av:201:VAL:HG12	2.34	0.42
25:Ay:61:LYS:HG2	25:Ay:62:ALA:H	1.84	0.42
26:AA:42:ARG:O	26:AA:53:LYS:HB3	2.19	0.42
26:AA:55:LYS:HG2	26:AA:56:ARG:N	2.28	0.42
28:AC:44:PRO:HG3	43:1:2646:U:C4'	2.48	0.42
33:AI:227:PHE:C	33:AI:229:LYS:N	2.77	0.42
40:AP:197:ALA:O	40:AP:201:ALA:CB	2.67	0.42
41:AQ:397:TYR:OH	41:AQ:423:ASN:ND2	2.48	0.42
43:1:242:A:C5	43:1:243:G:C8	3.06	0.42
43:1:478:C:O2'	43:1:479:G:O5'	2.36	0.42
43:1:484:U:H1'	43:1:485:A:C8	2.54	0.42
43:1:563:A:C4	43:1:564:A:C8	3.07	0.42
43:1:569:A:H2'	43:1:570:A:C8	2.54	0.42
43:1:960:G:C2	43:1:1348:G:C4	3.07	0.42
43:1:979:A:C5	43:1:980:G:N7	2.87	0.42
43:1:1170:A:C2	43:1:1172:U:C5	3.07	0.42
43:1:1180:G:C4	43:1:1181:A:C8	3.08	0.42
43:1:1219:A:O2'	43:1:1247:A:OP1	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1296:G:H2'	43:1:1297:A:H8	1.84	0.42
43:1:1398:U:H2'	43:1:1399:C:C6	2.54	0.42
43:1:1526:G:C4	43:1:1527:G:C8	3.07	0.42
43:1:1620:G:H4'	43:1:1621:C:OP1	2.19	0.42
43:1:1905:U:O2	43:1:1925:G:C2	2.72	0.42
43:1:1995:G:C6	43:1:2312:A:C6	3.07	0.42
43:1:2382:A:C2	43:1:2739:G:C2	3.07	0.42
43:1:2391:A:H2'	43:1:2392:U:O4'	2.19	0.42
43:1:2620:A:C6	43:1:2631:A:N1	2.87	0.42
43:1:2748:A:OP1	43:1:2795:A:O2'	2.17	0.42
43:1:2928:A:H3'	43:1:2929:A:C5	2.54	0.42
43:1:2970:G:N1	43:1:2971:G:C5	2.87	0.42
43:1:3034:U:C5'	43:1:3035:A:H5'	2.38	0.42
43:1:3133:G:C5	43:1:3134:A:C6	3.06	0.42
45:Bb:509:LYS:HA	45:Bb:509:LYS:HD3	1.76	0.42
46:Bf:25:ARG:NH1	85:2:1723:A:OP1	2.52	0.42
46:Bf:49:LEU:HA	46:Bf:119:TYR:HE2	1.83	0.42
48:Bi:168:SER:HB3	85:2:1548:G:H21	1.83	0.42
49:Bl:42:ASN:HB3	49:Bl:74:ALA:O	2.19	0.42
49:Bl:69:ILE:HG22	49:Bl:70:THR:H	1.84	0.42
60:Ba:86:ARG:N	60:Ba:90:ASP:HA	2.34	0.42
61:Bc:48:ARG:O	61:Bc:51:SER:OG	2.37	0.42
62:Bd:327:LYS:HE2	62:Bd:327:LYS:HB3	1.90	0.42
76:BD:186:LYS:HA	76:BD:189:MET:SD	2.58	0.42
77:BE:170:LEU:O	77:BE:207:LEU:N	2.52	0.42
85:2:210:G:O6	85:2:221:U:C2	2.71	0.42
85:2:582:G:H2'	85:2:583:C:O4'	2.19	0.42
85:2:661:G:N1	85:2:736:G:C5	2.87	0.42
85:2:1021:G:H3'	85:2:1022:G:H8	1.85	0.42
85:2:1389:G:O2'	85:2:1390:A:C8	2.70	0.42
85:2:1467:U:O2'	85:2:1468:C:OP2	2.33	0.42
85:2:1512:C:C2	85:2:1513:A:C8	3.07	0.42
85:2:1777:G:C6	85:2:1869:G:N1	2.87	0.42
85:2:1812:C:H1'	85:2:1813:U:H5'	2.01	0.42
85:2:1839:U:C2	85:2:1840:U:C5	3.07	0.42
87:Ah:60:VAL:HG11	87:Ah:82:TRP:NE1	2.33	0.42
3:Ac:245:ARG:HD3	43:1:3067:C:O3'	2.19	0.42
5:Ad:155:LYS:HB2	5:Ad:158:GLY:HA2	2.00	0.42
9:Ai:36:LEU:HD23	9:Ai:39:TYR:CE2	2.54	0.42
10:Aj:44:ARG:HH12	43:1:1289:C:H4'	1.84	0.42
10:Aj:47:SER:HA	10:Aj:50:SER:OG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Am:98:MET:O	13:Am:101:GLN:N	2.53	0.42
18:Ar:115:GLU:HG3	18:Ar:116:ALA:N	2.33	0.42
18:Ar:175:LEU:HB2	18:Ar:199:VAL:HG21	2.00	0.42
19:As:189:ALA:HB3	19:As:197:GLY:C	2.44	0.42
20:At:15:LEU:O	20:At:17:ILE:N	2.49	0.42
21:Au:70:VAL:HG12	21:Au:71:GLU:N	2.34	0.42
29:AE:7:VAL:HB	29:AE:35:GLN:NE2	2.34	0.42
33:Al:116:PHE:HA	33:Al:129:TRP:CD1	2.54	0.42
33:Al:205:CYS:C	33:Al:206:GLU:HG3	2.45	0.42
35:AK:120:MET:HA	35:AK:123:GLU:CD	2.44	0.42
39:AO:434:GLU:OE1	39:AO:468:ARG:NH1	2.52	0.42
40:AP:509:ALA:HA	40:AP:513:ALA:HB3	2.02	0.42
43:1:100:C:C2	43:1:101:A:N7	2.88	0.42
43:1:209:U:O4	43:1:560:U:O2'	2.31	0.42
43:1:249:U:O2'	43:1:250:U:O5'	2.37	0.42
43:1:301:U:C2	43:1:302:U:C5	3.08	0.42
43:1:429:G:O5'	43:1:429:G:H8	2.03	0.42
43:1:431:G:O2'	43:1:473:A:N6	2.52	0.42
43:1:505:A:H2'	43:1:506:A:O4'	2.19	0.42
43:1:584:A:C2	43:1:1401:G:N3	2.87	0.42
43:1:691:A:H2	43:1:694:G:C5	2.37	0.42
43:1:691:A:C2	43:1:693:C:H5''	2.54	0.42
43:1:708:G:C2	43:1:709:G:C5	3.07	0.42
43:1:969:A:H2'	43:1:970:U:C6	2.55	0.42
43:1:996:G:H2'	43:1:997:C:H6	1.84	0.42
43:1:1175:A:H2'	43:1:1176:A:C8	2.54	0.42
43:1:1366:G:H4'	43:1:1367:G:O5'	2.19	0.42
43:1:1593:G:O2'	43:1:1594:G:OP2	2.27	0.42
43:1:2163:G:N2	43:1:2164:A:C6	2.88	0.42
43:1:2247:A:C8	43:1:2256:G:N7	2.87	0.42
43:1:2404:G:C2	43:1:2405:A:C8	3.07	0.42
43:1:2408:A:C4	43:1:2409:C:C6	3.08	0.42
43:1:2426:G:H1'	43:1:2428:A:N6	2.34	0.42
43:1:2428:A:H1'	43:1:2430:A:OP2	2.19	0.42
43:1:2842:G:C6	43:1:2843:G:C5	3.07	0.42
43:1:3056:G:C2	43:1:3057:G:C5	3.08	0.42
45:Bb:23:PHE:CE2	48:Bi:183:PHE:HD2	2.37	0.42
45:Bb:490:SER:O	45:Bb:533:LEU:HG	2.19	0.42
49:Bl:118:SER:O	49:Bl:121:ARG:HG2	2.20	0.42
51:Br:176:ILE:HG22	51:Br:177:TYR:N	2.34	0.42
53:Bx:63:ASP:HB2	53:Bx:66:VAL:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:Ba:27:PHE:HB3	60:Ba:169:PHE:CZ	2.54	0.42
61:Bc:47:ASN:HD22	61:Bc:48:ARG:HE	1.67	0.42
61:Bc:79:TYR:OH	61:Bc:103:LEU:HD13	2.19	0.42
62:Bd:445:TRP:CD2	85:2:15:A:N6	2.87	0.42
64:Bg:66:GLY:CA	71:Bu:40:ARG:HH22	2.32	0.42
67:Bo:91:MET:HB2	75:BC:99:ARG:HH22	1.83	0.42
72:Bv:65:LYS:O	72:Bv:68:GLN:HB2	2.19	0.42
76:BD:299:LEU:HA	76:BD:302:GLU:CD	2.45	0.42
76:BD:300:TYR:O	76:BD:304:VAL:HG23	2.18	0.42
77:BE:195:TYR:CD1	77:BE:275:GLY:HA2	2.53	0.42
77:BE:240:ASP:OD1	77:BE:241:ASP:N	2.51	0.42
85:2:14:G:C6	85:2:317:U:H1'	2.54	0.42
85:2:187:C:C2	85:2:188:G:N7	2.87	0.42
85:2:291:C:C2	85:2:292:A:C8	3.08	0.42
85:2:357:A:H2'	85:2:358:C:C6	2.54	0.42
85:2:428:G:N2	85:2:451:A:OP2	2.51	0.42
85:2:519:C:P	89:Bk:69:GLY:H	2.42	0.42
85:2:789:A:C4	85:2:791:A:C6	3.08	0.42
85:2:789:A:C5	85:2:791:A:N6	2.87	0.42
85:2:926:G:C6	85:2:1734:G:N1	2.87	0.42
85:2:1399:G:O2'	85:2:1400:C:H6	2.02	0.42
85:2:1563:A:C6	85:2:1565:G:C4	3.07	0.42
89:Bk:50:ARG:HD2	89:Bk:50:ARG:HA	1.94	0.42
1:Aa:86:ILE:N	1:Aa:86:ILE:CD1	2.82	0.42
2:Ab:155:ARG:NE	43:1:2144:U:OP2	2.52	0.42
4:AD:133:TRP:CZ2	12:Al:124:ARG:HG2	2.53	0.42
6:Ae:59:GLN:NE2	6:Ae:97:LEU:HG	2.34	0.42
6:Ae:133:THR:HB	6:Ae:155:PHE:CG	2.52	0.42
7:Af:25:ARG:CZ	7:Af:46:ARG:HA	2.50	0.42
17:Aq:30:LYS:HE3	17:Aq:30:LYS:HB3	1.85	0.42
17:Aq:55:ASN:ND2	43:1:1159:A:OP1	2.53	0.42
18:Ar:122:LYS:HB3	18:Ar:175:LEU:CD1	2.49	0.42
18:Ar:246:LYS:HZ2	18:Ar:246:LYS:HG2	1.66	0.42
19:As:114:LYS:HG2	19:As:203:ARG:HD3	2.01	0.42
21:Au:37:ARG:NH1	43:1:88:C:O2'	2.47	0.42
21:Au:57:ILE:C	43:1:624:A:H4'	2.44	0.42
23:Aw:90:PHE:HZ	43:1:1001:A:HO2'	1.66	0.42
24:Ax:118:LYS:O	24:Ax:120:ASP:N	2.52	0.42
25:Ay:36:ASN:HB3	25:Ay:39:GLU:HG3	2.00	0.42
30:AF:214:THR:N	30:AF:215:PRO:HD2	2.34	0.42
30:AF:220:ARG:CZ	30:AF:220:ARG:HB2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AH:44:LEU:HB2	32:AH:46:VAL:HG23	2.01	0.42
33:AI:103:LEU:HD21	33:AI:210:TRP:CG	2.54	0.42
34:AJ:25:PHE:CZ	34:AJ:56:ILE:HG21	2.54	0.42
36:AL:64:ASN:HB2	86:Az:74:GLU:HG3	2.02	0.42
38:AN:129:ARG:HA	38:AN:132:ILE:HD12	2.01	0.42
39:AO:194:TYR:O	39:AO:198:VAL:HG22	2.19	0.42
40:AP:666:ALA:C	40:AP:668:ALA:H	2.27	0.42
41:AQ:391:LEU:HG	41:AQ:391:LEU:O	2.19	0.42
43:1:77:A:C6	43:1:103:G:N1	2.88	0.42
43:1:129:A:C6	43:1:156:G:N1	2.87	0.42
43:1:312:G:H1'	43:1:313:U:H5	1.84	0.42
43:1:457:A:N6	43:1:471:G:H21	2.18	0.42
43:1:475:A:C2	43:1:476:U:H1'	2.54	0.42
43:1:487:G:H1'	43:1:488:G:O5'	2.19	0.42
43:1:560:U:C2	43:1:561:C:C5	3.07	0.42
43:1:638:G:C2	43:1:639:U:C5	3.08	0.42
43:1:689:C:N4	43:1:695:C:H42	2.17	0.42
43:1:940:U:H2'	43:1:941:C:H6	1.84	0.42
43:1:1049:C:H2'	43:1:1050:C:H6	1.83	0.42
43:1:1130:A:C8	43:1:1131:C:C5	3.06	0.42
43:1:1137:A:C2'	86:Az:28:PRO:HG2	2.49	0.42
43:1:1163:A:C6	43:1:1299:U:N3	2.87	0.42
43:1:1358:G:C6	43:1:1359:U:N3	2.88	0.42
43:1:1515:A:C5	43:1:1533:G:C2	3.07	0.42
43:1:1571:U:OP2	43:1:1648:C:H6	2.01	0.42
43:1:1912:G:N2	43:1:1914:C:H5'	2.34	0.42
43:1:2351:G:H2'	43:1:2352:U:C6	2.54	0.42
43:1:2786:U:C4	43:1:2787:C:N4	2.87	0.42
43:1:2945:G:C4	43:1:2946:A:C8	3.07	0.42
43:1:3035:A:C2	43:1:3036:U:C2	3.07	0.42
44:3:118:A:OP2	44:3:118:A:H8	2.01	0.42
45:Bb:73:PHE:HE1	45:Bb:437:ILE:HG23	1.84	0.42
51:Br:150:LYS:O	51:Br:150:LYS:CG	2.64	0.42
51:Br:161:ARG:O	51:Br:162:ARG:HB2	2.20	0.42
60:Ba:50:LEU:HA	60:Ba:50:LEU:HD23	1.70	0.42
60:Ba:117:ARG:HD2	60:Ba:119:ARG:HE	1.84	0.42
62:Bd:485:VAL:C	62:Bd:487:ALA:H	2.27	0.42
66:Bn:336:LYS:O	66:Bn:340:GLU:HG2	2.19	0.42
73:By:52:ASN:HB2	73:By:119:ARG:NE	2.33	0.42
73:By:74:TRP:CD1	85:2:233:A:O3'	2.72	0.42
73:By:83:LYS:HE3	73:By:83:LYS:HB3	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:BD:278:ASP:HB3	77:BE:72:ARG:HH22	1.83	0.42
77:BE:62:LEU:HA	77:BE:96:LYS:NZ	2.34	0.42
77:BE:195:TYR:CG	77:BE:275:GLY:HA2	2.54	0.42
77:BE:245:ILE:HG12	77:BE:249:LEU:HD23	2.00	0.42
77:BE:343:VAL:HG23	77:BE:344:SER:N	2.34	0.42
78:BI:245:ALA:HB3	85:2:1804:C:C2'	2.48	0.42
85:2:277:A:C6	85:2:288:G:O6	2.73	0.42
85:2:339:G:N1	85:2:353:C:N3	2.67	0.42
85:2:411:A:C6	85:2:412:G:C8	3.08	0.42
85:2:503:G:C6	85:2:504:C:C4	3.08	0.42
85:2:535:G:OP1	89:Bk:110:ARG:HA	2.19	0.42
85:2:572:G:C6	85:2:874:G:C6	3.07	0.42
85:2:578:G:O2'	85:2:579:U:H5'	2.19	0.42
85:2:767:A:H2'	85:2:768:U:H6	1.83	0.42
85:2:1003:A:H3'	85:2:1004:C:H6	1.84	0.42
85:2:1451:G:C3'	85:2:1452:C:P	3.03	0.42
85:2:1552:G:H8	85:2:1552:G:OP1	2.02	0.42
85:2:1735:G:H2'	85:2:1736:G:H8	1.84	0.42
85:2:1761:C:H2'	85:2:1762:C:C6	2.54	0.42
88:BK:33:ALA:CB	88:BK:64:ALA:HB3	2.49	0.42
1:Aa:27:ARG:NH1	43:1:922:G:H5'	2.34	0.42
1:Aa:44:ILE:HD12	1:Aa:65:ARG:NH1	2.34	0.42
3:Ac:127:CYS:SG	3:Ac:128:GLY:N	2.92	0.42
5:Ad:258:LEU:HD22	5:Ad:260:TYR:OH	2.19	0.42
6:Ae:47:LYS:HA	6:Ae:47:LYS:HD3	1.92	0.42
7:Af:29:LEU:HB2	7:Af:37:VAL:HB	2.01	0.42
11:Ak:52:THR:HG23	43:1:2001:G:O3'	2.19	0.42
12:Al:71:ASP:C	12:Al:73:VAL:H	2.26	0.42
12:Al:134:PHE:HB3	12:Al:175:GLY:C	2.44	0.42
15:Ao:62:ASP:CG	15:Ao:64:ALA:H	2.28	0.42
17:Aq:41:ASN:O	17:Aq:44:ARG:HG2	2.19	0.42
17:Aq:97:ALA:HB1	86:Az:96:VAL:HG21	2.02	0.42
20:At:99:PHE:CD2	20:At:101:VAL:HG22	2.55	0.42
26:AA:33:GLY:O	33:AI:62:ARG:HD3	2.19	0.42
40:AP:532:ALA:HB3	40:AP:535:ALA:CB	2.49	0.42
41:AQ:156:ARG:HD2	41:AQ:156:ARG:HA	1.91	0.42
41:AQ:462:VAL:HG13	41:AQ:466:GLU:OE2	2.19	0.42
43:1:39:G:C6	43:1:40:C:C4	3.08	0.42
43:1:43:U:C2	43:1:44:G:N7	2.87	0.42
43:1:172:G:H2'	43:1:173:C:O4'	2.19	0.42
43:1:210:C:N4	43:1:560:U:H4'	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:694:G:O2'	43:1:695:C:C6	2.73	0.42
43:1:828:A:H61	43:1:922:G:N2	2.16	0.42
43:1:968:U:C2	43:1:969:A:C8	3.08	0.42
43:1:1211:G:H2'	43:1:1212:G:H8	1.83	0.42
43:1:1584:C:O2'	43:1:1585:U:O5'	2.36	0.42
43:1:1959:A:C2	43:1:1960:C:C6	3.08	0.42
43:1:2014:A:H2'	43:1:2015:U:C6	2.54	0.42
43:1:2053:U:H4'	43:1:2054:U:OP1	2.20	0.42
43:1:2158:U:H2'	43:1:2159:G:O4'	2.19	0.42
43:1:2594:A:N6	43:1:2639:G:O6	2.53	0.42
43:1:2673:G:C2	43:1:2677:G:C6	3.08	0.42
43:1:2743:G:C2	43:1:2744:G:C8	3.08	0.42
43:1:2890:G:N1	43:1:2901:G:C6	2.86	0.42
43:1:2942:G:H2'	43:1:2943:A:C8	2.51	0.42
43:1:3000:U:C2	43:1:3001:U:C5	3.08	0.42
43:1:3042:A:C6	43:1:3043:A:C6	3.07	0.42
43:1:3138:G:C5	43:1:3139:U:C4	3.07	0.42
44:3:35:G:C5	44:3:52:G:C2	3.08	0.42
47:Bh:356:LYS:HB2	47:Bh:360:ARG:HH11	1.83	0.42
48:Bi:157:PRO:HD2	48:Bi:183:PHE:O	2.19	0.42
52:Bw:174:LEU:HD22	52:Bw:438:VAL:HG12	2.02	0.42
60:Ba:176:VAL:O	60:Ba:178:ALA:N	2.47	0.42
62:Bd:333:GLU:HB3	62:Bd:337:GLU:OE2	2.20	0.42
63:Be:59:HIS:HD2	63:Be:60:TYR:CZ	2.36	0.42
64:Bg:19:ARG:NE	85:2:825:C:H5'	2.27	0.42
67:Bo:28:PRO:HD2	67:Bo:31:GLY:HA3	2.00	0.42
69:Bq:211:ARG:O	69:Bq:215:THR:HG23	2.19	0.42
77:BE:66:SER:OG	77:BE:68:PRO:HD2	2.19	0.42
77:BE:127:TYR:CZ	77:BE:336:TYR:HA	2.54	0.42
85:2:40:A:C2	85:2:41:A:C5	3.07	0.42
85:2:61:A:N1	85:2:378:G:C6	2.87	0.42
85:2:135:C:O2'	85:2:136:G:O5'	2.37	0.42
85:2:251:G:H2'	85:2:252:C:C6	2.52	0.42
85:2:594:G:C5	85:2:595:U:C6	3.08	0.42
85:2:766:C:O2'	85:2:767:A:H5'	2.19	0.42
85:2:852:U:C5	85:2:863:G:C5	3.08	0.42
85:2:926:G:C5	85:2:928:A:C6	3.07	0.42
85:2:971:A:C8	85:2:972:C:C5	3.07	0.42
85:2:1122:C:C5	85:2:1123:A:C6	3.07	0.42
85:2:1179:A:C2	85:2:1393:G:N1	2.88	0.42
85:2:1487:G:P	85:2:1487:G:H8	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1588:A:C8	85:2:1652:C:H1'	2.54	0.42
85:2:1892:C:H2'	85:2:1893:G:O4'	2.18	0.42
88:BK:118:ALA:C	88:BK:120:ALA:N	2.78	0.42
89:Bk:74:LEU:HD21	89:Bk:104:LEU:HB2	2.01	0.42
1:Aa:41:LEU:HA	1:Aa:41:LEU:HD13	1.80	0.42
4:AD:164:LYS:HD3	4:AD:164:LYS:HA	1.73	0.42
5:Ad:276:LEU:HD12	5:Ad:277:HIS:N	2.35	0.42
6:Ae:21:ASN:ND2	30:AF:209:LEU:O	2.52	0.42
7:Af:25:ARG:HH11	7:Af:47:VAL:H	1.67	0.42
7:Af:90:ASP:OD1	7:Af:90:ASP:N	2.41	0.42
11:Ak:155:HIS:ND1	16:Ap:148:ASN:ND2	2.67	0.42
13:Am:84:GLU:O	13:Am:88:ARG:HG2	2.20	0.42
17:Aq:21:ILE:HG23	17:Aq:22:ARG:N	2.35	0.42
23:Aw:71:PHE:HD2	43:1:1000:G:H21	1.65	0.42
26:AA:41:LYS:HA	26:AA:54:PHE:CD1	2.54	0.42
29:AE:37:GLN:NE2	43:1:1273:C:H1'	2.35	0.42
30:AF:197:ILE:HG12	33:AI:166:ALA:HB1	2.02	0.42
33:AI:213:LYS:NZ	33:AI:215:GLU:O	2.52	0.42
34:AJ:51:GLU:O	34:AJ:55:GLN:HB2	2.20	0.42
39:AO:273:LEU:HA	39:AO:276:ARG:HB2	2.01	0.42
39:AO:362:ARG:NH1	43:1:1837:G:H1'	2.35	0.42
40:AP:229:ALA:HB3	40:AP:235:ALA:CB	2.50	0.42
41:AQ:393:ASN:CB	41:AQ:396:GLU:HG2	2.49	0.42
43:1:42:U:H2'	43:1:43:U:H6	1.83	0.42
43:1:230:G:C1'	43:1:515:G:H22	2.31	0.42
43:1:252:G:C4	43:1:253:G:C8	3.07	0.42
43:1:433:A:OP2	43:1:433:A:H8	2.03	0.42
43:1:539:C:H5'	43:1:541:C:N3	2.34	0.42
43:1:586:C:O2'	43:1:587:G:H5'	2.19	0.42
43:1:982:G:C6	43:1:1088:A:C6	3.08	0.42
43:1:1102:G:O6	43:1:1113:C:N4	2.52	0.42
43:1:1223:G:H2'	43:1:1224:C:C6	2.54	0.42
43:1:1307:G:C6	43:1:1308:C:C4	3.07	0.42
43:1:1321:A:H2'	43:1:1322:A:H8	1.84	0.42
43:1:1666:C:O2'	43:1:1667:U:H6	2.03	0.42
43:1:1853:G:O2'	43:1:1854:C:P	2.78	0.42
43:1:1876:G:C2	43:1:1877:G:N7	2.88	0.42
43:1:1907:G:O2'	43:1:1908:G:OP2	2.31	0.42
43:1:2132:A:C8	43:1:2134:G:C4	3.08	0.42
43:1:2309:G:H2'	43:1:2310:A:C8	2.54	0.42
43:1:2347:C:H2'	43:1:2348:G:C8	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:2380:G:N2	43:1:2381:C:O2	2.53	0.42
43:1:2589:A:C5	43:1:2591:G:N7	2.88	0.42
43:1:2671:A:H2'	43:1:2672:C:C6	2.54	0.42
43:1:2924:U:H2'	43:1:2925:G:C8	2.34	0.42
43:1:2971:G:C4	43:1:2972:G:C8	3.08	0.42
44:3:68:U:H2'	44:3:69:U:H6	1.85	0.42
47:Bh:356:LYS:HG3	47:Bh:360:ARG:NE	2.35	0.42
52:Bw:294:VAL:HG22	52:Bw:312:ILE:HD11	2.02	0.42
63:Be:54:LYS:HA	63:Be:54:LYS:HD2	1.89	0.42
63:Be:59:HIS:HD2	63:Be:60:TYR:CE1	2.37	0.42
67:Bo:6:ARG:HA	67:Bo:73:VAL:HG21	2.01	0.42
67:Bo:93:ARG:HH12	75:BC:99:ARG:HD3	1.84	0.42
71:Bu:7:ASP:OD2	71:Bu:10:SER:HB3	2.19	0.42
71:Bu:48:ILE:HD12	71:Bu:48:ILE:HA	1.89	0.42
72:Bv:153:MET:SD	72:Bv:154:GLY:N	2.93	0.42
73:By:98:ILE:HA	73:By:107:ALA:HB3	2.01	0.42
75:BC:77:ARG:NE	75:BC:81:PHE:HZ	2.17	0.42
77:BE:108:TYR:HA	77:BE:111:ILE:HG22	2.01	0.42
77:BE:166:ASP:CG	77:BE:167:LYS:HG3	2.45	0.42
77:BE:249:LEU:HD12	77:BE:250:ALA:N	2.35	0.42
85:2:12:A:H2'	85:2:13:A:O4'	2.19	0.42
85:2:168:G:C2	85:2:169:G:N7	2.88	0.42
85:2:331:C:C4	85:2:332:A:N7	2.88	0.42
85:2:442:C:H5	85:2:445:C:H5'	1.84	0.42
85:2:597:G:H2'	85:2:598:A:C8	2.54	0.42
85:2:611:C:H2'	85:2:612:C:H6	1.82	0.42
85:2:711:A:H2'	85:2:712:C:H6	1.82	0.42
85:2:715:C:N4	85:2:716:A:C2	2.88	0.42
85:2:715:C:H2'	85:2:716:A:C8	2.55	0.42
85:2:742:C:C4	85:2:743:U:H1'	2.54	0.42
85:2:957:A:H5''	85:2:958:U:OP2	2.20	0.42
85:2:995:A:H2'	85:2:996:C:N1	2.34	0.42
85:2:1044:U:H2'	85:2:1550:C:N4	2.31	0.42
85:2:1380:G:C2'	85:2:1381:G:H5''	2.49	0.42
85:2:1427:G:C2	85:2:1428:G:C4	3.08	0.42
85:2:1435:U:O2'	85:2:1436:A:C8	2.63	0.42
85:2:1494:G:H22	85:2:1496:A:H62	1.67	0.42
85:2:1764:G:C6	85:2:1882:G:C5	3.07	0.42
85:2:1800:C:O2'	85:2:1801:A:H8	2.01	0.42
85:2:1855:G:C5	85:2:1856:C:C4	3.08	0.42
85:2:1915:A:C8	85:2:1916:C:H1'	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ae:12:LEU:O	6:Ae:15:ASP:HB2	2.19	0.42
6:Ae:59:GLN:HE21	6:Ae:97:LEU:HG	1.85	0.42
10:Aj:93:TRP:NE1	10:Aj:102:LYS:HB3	2.34	0.42
10:Aj:152:LYS:HB3	10:Aj:153:PRO:HD2	2.02	0.42
12:Al:188:TRP:HZ2	40:AP:247:ALA:HB3	1.83	0.42
14:An:7:LEU:O	14:An:9:ARG:NH1	2.53	0.42
17:Aq:28:VAL:HA	17:Aq:31:ALA:HB3	2.01	0.42
18:Ar:199:VAL:O	18:Ar:200:HIS:C	2.62	0.42
19:As:166:GLY:C	19:As:167:LEU:HD22	2.45	0.42
20:At:21:MET:HG3	20:At:22:PRO:O	2.19	0.42
25:Ay:77:TRP:CZ3	25:Ay:114:MET:HE2	2.54	0.42
33:AI:34:GLU:HA	33:AI:111:LEU:O	2.20	0.42
33:AI:211:VAL:HG21	33:AI:215:GLU:H	1.84	0.42
35:AK:84:HIS:HB2	35:AK:87:ASP:HB2	2.00	0.42
39:AO:197:ASN:OD1	39:AO:231:THR:HA	2.19	0.42
39:AO:282:GLU:HA	39:AO:285:ARG:HG2	2.02	0.42
39:AO:294:ILE:HG22	39:AO:294:ILE:O	2.19	0.42
40:AP:248:ALA:O	40:AP:249:ALA:C	2.63	0.42
41:AQ:143:ASP:CG	41:AQ:144:GLU:N	2.77	0.42
41:AQ:250:LEU:HD23	41:AQ:250:LEU:HA	1.83	0.42
41:AQ:257:ILE:HD13	41:AQ:257:ILE:HA	1.89	0.42
41:AQ:336:ARG:HA	41:AQ:336:ARG:NE	2.33	0.42
41:AQ:443:ASN:HD21	41:AQ:448:ALA:HB2	1.85	0.42
43:1:31:A:C2	43:1:32:U:C2	3.07	0.42
43:1:47:A:H8	43:1:47:A:OP2	2.01	0.42
43:1:71:A:N1	43:1:105:A:O2'	2.53	0.42
43:1:82:G:N2	43:1:96:G:O2'	2.53	0.42
43:1:423:G:C6	43:1:424:U:C2	3.08	0.42
43:1:476:U:H2'	43:1:477:U:C6	2.55	0.42
43:1:528:G:C5	43:1:529:A:C6	3.08	0.42
43:1:549:G:C4	43:1:550:G:C8	3.07	0.42
43:1:666:G:H2'	43:1:667:A:H8	1.85	0.42
43:1:702:U:C2	43:1:703:C:C5	3.08	0.42
43:1:708:G:H2'	43:1:709:G:C8	2.48	0.42
43:1:817:G:C6	43:1:951:U:O4	2.73	0.42
43:1:859:A:H61	66:Bn:412:ARG:HD3	1.85	0.42
43:1:1000:G:H2'	43:1:1001:A:N7	2.34	0.42
43:1:1066:U:H3'	43:1:1067:A:H8	1.84	0.42
43:1:1146:G:O2'	43:1:1147:C:O5'	2.36	0.42
43:1:1229:C:C4	43:1:1230:U:C4	3.08	0.42
43:1:1324:G:H22	43:1:1330:U:H3	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1424:A:H1'	43:1:2324:A:N6	2.35	0.42
43:1:1548:G:C6	43:1:1902:G:C6	3.07	0.42
43:1:1577:A:C4	43:1:1578:C:C4	3.08	0.42
43:1:1892:A:C2	43:1:1893:A:C2	3.08	0.42
43:1:1974:U:O2'	43:1:3001:U:H4'	2.19	0.42
43:1:2045:C:O2'	43:1:2046:U:P	2.77	0.42
43:1:2087:G:O2'	43:1:2088:C:H5'	2.20	0.42
43:1:2382:A:C4	43:1:2739:G:N2	2.87	0.42
43:1:2625:A:C6	43:1:2686:A:C2	3.08	0.42
43:1:2698:G:N1	43:1:2715:U:C4	2.88	0.42
43:1:2712:G:C2	43:1:2713:G:C8	3.08	0.42
43:1:2756:G:H21	43:1:2757:A:H61	1.68	0.42
43:1:3124:A:C2	43:1:3125:A:C4	3.08	0.42
44:3:38:C:N4	44:3:51:C:O2'	2.52	0.42
44:3:97:A:C6	44:3:98:G:C5	3.08	0.42
47:Bh:403:PHE:O	47:Bh:404:LEU:HD23	2.20	0.42
48:Bi:142:LYS:NZ	48:Bi:210:LEU:O	2.34	0.42
50:Bm:81:ALA:HA	50:Bm:84:GLU:HG3	2.01	0.42
50:Bm:151:ALA:HB2	50:Bm:156:LEU:HG	2.00	0.42
60:Ba:28:LYS:HG2	71:Bu:45:ILE:HD11	2.02	0.42
60:Ba:177:PRO:HB2	60:Ba:179:ARG:HE	1.84	0.42
61:Bc:124:ARG:C	61:Bc:126:LEU:N	2.76	0.42
62:Bd:367:LYS:NZ	62:Bd:380:TYR:CB	2.76	0.42
63:Be:71:THR:CG2	63:Be:75:MET:HG3	2.50	0.42
65:Bj:210:THR:OG1	65:Bj:211:ASP:N	2.52	0.42
67:Bo:20:VAL:O	67:Bo:37:LEU:N	2.52	0.42
67:Bo:50:LYS:HE3	76:BD:326:ARG:NH1	2.35	0.42
68:Bp:34:VAL:HG22	68:Bp:35:LYS:H	1.84	0.42
76:BD:151:ARG:HA	76:BD:151:ARG:NE	2.35	0.42
77:BE:55:ILE:HG23	77:BE:92:LYS:C	2.45	0.42
77:BE:205:GLN:NE2	77:BE:206:LYS:H	2.18	0.42
77:BE:205:GLN:HG3	77:BE:206:LYS:N	2.35	0.42
85:2:19:G:C5	85:2:20:U:C4	3.08	0.42
85:2:80:U:O2'	85:2:81:U:OP2	2.37	0.42
85:2:260:G:H2'	85:2:261:U:C6	2.55	0.42
85:2:277:A:O5'	85:2:277:A:H8	2.03	0.42
85:2:302:U:H2'	85:2:303:G:O4'	2.20	0.42
85:2:723:A:H2'	85:2:724:A:H8	1.85	0.42
85:2:1096:G:C4	85:2:1097:A:C8	3.08	0.42
85:2:1519:A:H2'	85:2:1519:A:N3	2.35	0.42
85:2:1587:C:H5''	85:2:1588:A:O4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1819:A:C2	85:2:1827:G:O6	2.72	0.42
88:BK:18:ALA:O	88:BK:21:ALA:HB3	2.19	0.42
2:Ab:76:ASN:HB2	2:Ab:125:THR:OG1	2.20	0.42
7:Af:81:TYR:CZ	7:Af:96:LYS:HE3	2.54	0.42
12:Al:135:GLN:O	12:Al:176:VAL:HA	2.19	0.42
18:Ar:221:LYS:O	18:Ar:223:TYR:N	2.53	0.42
25:Ay:36:ASN:O	25:Ay:38:LEU:N	2.53	0.42
25:Ay:80:LEU:HD23	25:Ay:80:LEU:HA	1.81	0.42
31:AG:34:ASP:O	43:1:118:A:N6	2.52	0.42
36:AL:46:ARG:NH2	86:Az:70:VAL:H	2.18	0.42
39:AO:417:MET:HB2	39:AO:454:THR:HG21	2.02	0.42
40:AP:231:ALA:HA	40:AP:235:ALA:HB3	2.02	0.42
41:AQ:144:GLU:O	41:AQ:147:SER:OG	2.29	0.42
41:AQ:189:GLY:O	41:AQ:190:ARG:HG3	2.19	0.42
43:1:44:G:O6	43:1:45:A:N6	2.52	0.42
43:1:76:C:C2	43:1:104:G:N2	2.87	0.42
43:1:188:A:N6	43:1:189:A:N1	2.67	0.42
43:1:434:A:O2'	43:1:435:A:O4'	2.33	0.42
43:1:516:U:C2	43:1:523:A:N1	2.88	0.42
43:1:608:G:C6	43:1:609:G:N7	2.88	0.42
43:1:995:G:O2'	86:Az:61:MET:N	2.52	0.42
43:1:1243:U:C4	43:1:1245:A:P	3.13	0.42
43:1:1335:A:H2'	43:1:1336:A:H8	1.82	0.42
43:1:1416:A:H2'	43:1:1417:C:C6	2.55	0.42
43:1:1580:A:C8	43:1:1581:U:C4	3.08	0.42
43:1:1912:G:H8	43:1:1913:G:H21	1.67	0.42
43:1:1915:G:H3'	43:1:1917:U:O4'	2.20	0.42
43:1:2044:U:C2	43:1:2067:G:N2	2.88	0.42
43:1:2064:A:C2'	43:1:2065:A:H5'	2.49	0.42
43:1:2356:A:C2	43:1:2357:A:C5	3.07	0.42
43:1:2445:A:N1	43:1:2453:G:N2	2.67	0.42
43:1:2662:C:H2'	43:1:2663:G:O4'	2.20	0.42
43:1:2830:G:H2'	43:1:2831:A:O4'	2.20	0.42
43:1:2839:A:H2	43:1:3060:A:H61	1.67	0.42
43:1:2893:G:N2	43:1:2896:A:OP2	2.53	0.42
43:1:2928:A:H3'	43:1:2929:A:C6	2.55	0.42
43:1:2929:A:H1'	43:1:2930:A:C5	2.54	0.42
43:1:2965:G:C6	43:1:2966:G:C4	3.08	0.42
43:1:2995:G:N1	43:1:3019:G:C6	2.88	0.42
43:1:3115:G:N1	43:1:3151:G:C6	2.88	0.42
43:1:3135:G:N3	43:1:3136:G:C8	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:3:24:U:H4'	44:3:25:G:OP1	2.19	0.42
47:Bh:391:GLU:HB2	47:Bh:392:PRO:HD3	2.02	0.42
48:Bi:179:PHE:HD2	50:Bm:147:PHE:CZ	2.38	0.42
49:Bl:116:ARG:HD2	49:Bl:119:ARG:HB3	2.00	0.42
50:Bm:114:LEU:O	50:Bm:115:PRO:C	2.62	0.42
52:Bw:213:GLY:O	52:Bw:405:HIS:HE1	2.03	0.42
61:Bc:278:ILE:HG22	61:Bc:281:ILE:H	1.85	0.42
62:Bd:298:ARG:HH22	81:BN:68:ALA:CA	2.33	0.42
62:Bd:435:THR:HG21	62:Bd:490:LYS:O	2.20	0.42
62:Bd:480:ASN:OD1	62:Bd:481:SER:N	2.51	0.42
66:Bn:339:GLU:CD	66:Bn:342:LYS:HD3	2.44	0.42
67:Bo:19:ARG:NH1	67:Bo:36:VAL:HG21	2.35	0.42
68:Bp:29:ILE:O	68:Bp:31:ASN:ND2	2.53	0.42
68:Bp:35:LYS:HE2	68:Bp:35:LYS:HB3	1.73	0.42
68:Bp:61:ARG:HE	85:2:283:A:C4'	2.31	0.42
70:Bs:72:LEU:HD13	70:Bs:72:LEU:HA	1.90	0.42
70:Bs:90:LEU:HD21	85:2:1934:C:H42	1.84	0.42
72:Bv:186:THR:HA	72:Bv:189:LEU:HB2	2.01	0.42
76:BD:199:VAL:HG13	76:BD:204:ARG:CZ	2.50	0.42
76:BD:247:GLU:HA	76:BD:250:GLU:OE2	2.20	0.42
79:BJ:345:ALA:O	79:BJ:349:ALA:CB	2.65	0.42
85:2:14:G:O2'	85:2:317:U:H5'	2.20	0.42
85:2:399:G:C6	85:2:403:G:C6	3.07	0.42
85:2:426:G:C2	85:2:455:U:N3	2.88	0.42
85:2:678:G:O6	85:2:703:A:C6	2.73	0.42
85:2:846:A:C6	85:2:847:G:N7	2.88	0.42
85:2:1018:G:C5	85:2:1019:A:C8	3.08	0.42
85:2:1021:G:C5	85:2:1022:G:C5	3.07	0.42
85:2:1133:C:N4	85:2:1485:G:O6	2.53	0.42
85:2:1456:G:C4	85:2:1457:C:C5	3.07	0.42
85:2:1840:U:C2	85:2:1841:U:C6	3.08	0.42
88:BK:143:ALA:HB1	88:BK:177:ALA:HB3	2.02	0.42
88:BK:221:ALA:O	88:BK:222:ALA:HB3	2.19	0.42
89:Bk:99:ARG:NH2	89:Bk:107:ILE:HG23	2.34	0.42
2:Ab:154:VAL:HG21	43:1:926:A:C8	2.55	0.42
5:Ad:137:SER:O	5:Ad:137:SER:OG	2.26	0.42
6:Ae:3:PRO:HG3	26:AA:52:ALA:CB	2.50	0.42
9:Ai:89:LYS:CB	9:Ai:95:ASP:HA	2.45	0.42
11:Ak:79:LEU:HD21	11:Ak:154:PRO:HG3	2.01	0.42
13:Am:98:MET:C	13:Am:101:GLN:H	2.27	0.42
18:Ar:131:GLU:OE2	18:Ar:133:LEU:HD22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Ar:221:LYS:N	18:Ar:221:LYS:HD2	2.34	0.42
20:At:83:LYS:NZ	43:1:1496:G:P	2.92	0.42
22:Av:41:ARG:NH1	22:Av:43:ALA:HB3	2.30	0.42
22:Av:48:VAL:HG23	22:Av:49:SER:H	1.85	0.42
22:Av:164:GLY:H	22:Av:201:VAL:HG12	1.85	0.42
30:AF:171:TYR:HD2	33:AI:47:VAL:HA	1.85	0.42
33:AI:26:LYS:HD3	33:AI:185:TYR:HE1	1.85	0.42
35:AK:52:ARG:HD3	43:1:207:A:OP2	2.20	0.42
40:AP:671:ALA:HB3	43:1:497:U:P	2.60	0.42
43:1:306:C:H1'	43:1:308:C:H41	1.85	0.42
43:1:488:G:C8	43:1:489:U:N3	2.88	0.42
43:1:553:A:N7	43:1:2709:A:H2	2.18	0.42
43:1:559:C:C4	43:1:560:U:C4	3.08	0.42
43:1:956:U:H1'	43:1:1406:G:C2	2.54	0.42
43:1:1056:A:N6	43:1:1059:C:C2	2.88	0.42
43:1:1212:G:C5	43:1:1213:C:C5	3.08	0.42
43:1:1334:C:H2'	43:1:1335:A:C8	2.55	0.42
43:1:1549:A:H3'	43:1:1895:A:H62	1.84	0.42
43:1:1678:A:N3	43:1:1866:U:C5	2.87	0.42
43:1:1976:G:H3'	43:1:1977:G:C8	2.55	0.42
43:1:1991:C:H2'	43:1:1992:C:C6	2.55	0.42
43:1:2024:A:C6	43:1:2035:A:C2	3.07	0.42
43:1:2063:G:C4	43:1:2064:A:C8	3.08	0.42
43:1:2203:C:C4	43:1:2204:C:C5	3.08	0.42
43:1:2284:G:H2'	43:1:2285:U:H6	1.84	0.42
43:1:2413:G:C2	43:1:2483:U:O2	2.73	0.42
43:1:2793:G:H2'	43:1:2794:C:C6	2.55	0.42
43:1:2837:C:H2'	43:1:2838:C:H6	1.85	0.42
43:1:2938:C:H2'	43:1:2939:U:H6	1.85	0.42
43:1:3111:A:H61	43:1:3156:A:N6	2.18	0.42
47:Bh:336:ASP:HB3	47:Bh:345:ARG:CZ	2.50	0.42
48:Bi:209:ILE:HG13	48:Bi:209:ILE:O	2.19	0.42
51:Br:174:VAL:CB	51:Br:196:PHE:HZ	2.31	0.42
52:Bw:136:HIS:C	52:Bw:138:ASP:H	2.26	0.42
52:Bw:238:LEU:HB3	52:Bw:353:ILE:HG12	2.02	0.42
60:Ba:109:ASN:CG	85:2:1065:U:HO2'	2.20	0.42
60:Ba:114:LYS:HE2	60:Ba:114:LYS:HB2	1.74	0.42
60:Ba:161:ASP:OD1	60:Ba:179:ARG:HA	2.20	0.42
61:Bc:141:ILE:HD11	61:Bc:144:PHE:CD1	2.55	0.42
61:Bc:150:ASP:O	61:Bc:329:VAL:HA	2.20	0.42
62:Bd:483:ASN:O	62:Bd:487:ALA:CB	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:Bg:19:ARG:HD2	64:Bg:19:ARG:HA	1.79	0.42
68:Bp:13:MET:HB3	68:Bp:13:MET:HE3	1.99	0.42
69:Bq:181:ARG:HD3	69:Bq:181:ARG:HA	1.57	0.42
71:Bu:85:TYR:HD1	71:Bu:88:ARG:HB3	1.85	0.42
76:BD:259:PHE:HZ	76:BD:264:LEU:N	2.18	0.42
77:BE:143:ILE:HG21	77:BE:227:LEU:HD21	2.02	0.42
77:BE:232:GLU:O	77:BE:236:LYS:HG2	2.20	0.42
79:BJ:127:ALA:O	79:BJ:130:ALA:HB3	2.20	0.42
85:2:26:U:O2'	85:2:858:A:O2'	2.24	0.42
85:2:388:G:H2'	85:2:389:G:H8	1.84	0.42
85:2:549:U:H2'	85:2:550:C:C6	2.55	0.42
85:2:678:G:O6	85:2:702:U:O2	2.37	0.42
85:2:910:G:N1	85:2:911:A:C6	2.88	0.42
85:2:1765:G:C4	85:2:1766:G:C8	3.08	0.42
88:BK:282:ALA:HA	88:BK:315:ALA:HB2	2.02	0.42
89:Bk:99:ARG:HD2	89:Bk:104:LEU:HD21	2.02	0.42
6:Ae:31:LEU:HB3	6:Ae:102:MET:SD	2.60	0.42
9:Ai:130:MET:H	9:Ai:131:PRO:HD2	1.85	0.42
19:As:152:ARG:HH11	43:1:630:U:H5	1.62	0.42
20:At:98:LEU:HG	25:Ay:42:PHE:CE1	2.55	0.42
24:Ax:95:THR:HG21	43:1:2401:A:O2'	2.20	0.42
32:AH:118:LEU:HD23	32:AH:118:LEU:HA	1.83	0.42
35:AK:78:ARG:HE	43:1:557:C:H1'	1.84	0.42
37:AM:49:VAL:HG11	37:AM:100:TRP:CD1	2.55	0.42
39:AO:411:GLU:HB3	39:AO:414:ARG:HH21	1.85	0.42
40:AP:462:ALA:HA	40:AP:465:ALA:HB3	2.02	0.42
40:AP:569:ALA:HB2	43:1:268:A:H62	1.85	0.42
41:AQ:117:ASN:C	41:AQ:120:PRO:HD2	2.45	0.42
41:AQ:260:LYS:O	41:AQ:263:GLU:N	2.53	0.42
41:AQ:433:ASP:OD1	41:AQ:433:ASP:N	2.53	0.42
43:1:310:A:N1	43:1:487:G:C6	2.87	0.42
43:1:440:G:N1	43:1:443:A:OP2	2.45	0.42
43:1:696:A:C5	43:1:697:C:C4	3.08	0.42
43:1:722:A:C2	43:1:2344:A:C2	3.08	0.42
43:1:823:G:C2	43:1:824:A:C4	3.08	0.42
43:1:912:G:C6	43:1:913:U:C4	3.07	0.42
43:1:1177:A:H2'	43:1:1178:A:C8	2.55	0.42
43:1:1196:G:N2	43:1:1259:U:C2	2.88	0.42
43:1:1256:G:C6	43:1:1257:U:C4	3.07	0.42
43:1:1287:G:H3'	43:1:1288:G:O4'	2.19	0.42
43:1:1308:C:H2'	43:1:1309:G:O4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1443:A:N3	43:1:1443:A:H2'	2.35	0.42
43:1:1466:G:C4	43:1:1467:G:C8	3.08	0.42
43:1:1546:A:O2'	43:1:1547:C:O5'	2.36	0.42
43:1:1610:C:C2	43:1:1611:G:C5	3.08	0.42
43:1:1877:G:C5	43:1:1878:U:C4	3.08	0.42
43:1:1907:G:N1	43:1:1924:G:C5	2.88	0.42
43:1:1954:G:N3	43:1:1955:G:C8	2.88	0.42
43:1:2050:A:O2'	43:1:2051:U:H2'	2.20	0.42
43:1:2139:G:H2'	43:1:2140:A:H8	1.85	0.42
43:1:2750:C:H2'	43:1:2751:A:O4'	2.18	0.42
43:1:2752:G:N1	43:1:2797:C:N4	2.68	0.42
43:1:2762:U:C2	43:1:2785:G:N2	2.87	0.42
43:1:2923:G:N1	43:1:2924:U:O2	2.53	0.42
44:3:12:U:HO2'	44:3:13:A:P	2.43	0.42
45:Bb:352:ASN:O	45:Bb:356:ARG:HB3	2.19	0.42
45:Bb:529:ARG:CD	85:2:529:A:H61	2.32	0.42
46:Bf:27:ARG:NE	85:2:1590:U:H4'	2.35	0.42
47:Bh:384:SER:HB3	47:Bh:403:PHE:O	2.20	0.42
50:Bm:140:PHE:C	50:Bm:142:VAL:H	2.27	0.42
51:Br:166:LEU:CD1	51:Br:166:LEU:O	2.50	0.42
53:Bx:69:ARG:O	53:Bx:73:GLU:HG2	2.20	0.42
62:Bd:341:ASP:CG	62:Bd:345:LEU:HD23	2.45	0.42
62:Bd:370:LYS:HD3	62:Bd:399:LYS:HD2	2.01	0.42
62:Bd:391:GLY:O	62:Bd:392:ILE:HD13	2.20	0.42
64:Bg:3:ARG:HD2	64:Bg:6:LEU:HD23	2.01	0.42
65:Bj:195:ILE:HD12	65:Bj:197:HIS:NE2	2.35	0.42
65:Bj:197:HIS:O	65:Bj:207:VAL:HA	2.20	0.42
65:Bj:268:PHE:CE2	70:Bs:44:GLN:HB2	2.55	0.42
76:BD:223:LYS:O	76:BD:227:GLU:HG3	2.20	0.42
77:BE:187:TYR:CB	77:BE:328:LEU:HD13	2.50	0.42
82:BM:23:ALA:HB1	82:BM:54:ALA:HA	2.02	0.42
85:2:14:G:C3'	85:2:15:A:H5''	2.50	0.42
85:2:47:G:C6	85:2:48:C:C4	3.08	0.42
85:2:301:A:C6	85:2:302:U:C2	3.07	0.42
85:2:330:C:H2'	85:2:331:C:H6	1.85	0.42
85:2:374:C:H2'	85:2:375:A:C8	2.55	0.42
85:2:418:U:H2'	85:2:419:C:C6	2.55	0.42
85:2:419:C:O2	85:2:617:A:H3'	2.20	0.42
85:2:464:G:C6	85:2:488:G:N1	2.88	0.42
85:2:498:C:OP1	89:Bk:121:LYS:CE	2.67	0.42
85:2:633:C:H2'	85:2:634:G:H5''	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:785:U:C6	85:2:786:U:H5	2.37	0.42
85:2:1007:A:C6	85:2:1021:G:C6	3.08	0.42
85:2:1406:G:O3'	88:BK:18:ALA:CB	2.63	0.42
85:2:1407:G:OP1	88:BK:18:ALA:HB3	2.20	0.42
85:2:1434:G:N2	85:2:1447:G:H1	2.12	0.42
85:2:1458:C:N4	85:2:1459:A:N1	2.66	0.42
85:2:1672:G:N2	85:2:1710:G:O2'	2.53	0.42
85:2:1748:C:C2	85:2:1898:A:N6	2.88	0.42
85:2:1816:G:N1	85:2:1830:A:C2	2.88	0.42
85:2:1909:A:C6	85:2:1919:G:O6	2.73	0.42
1:Aa:86:ILE:HG22	2:Ab:129:VAL:HG13	2.01	0.41
1:Aa:87:GLU:HB3	2:Ab:130:SER:HB3	2.02	0.41
2:Ab:77:ILE:HB	2:Ab:87:MET:HB2	2.02	0.41
2:Ab:92:GLY:H	2:Ab:129:VAL:HB	1.84	0.41
3:Ac:213:LEU:CD1	3:Ac:216:ARG:HB3	2.50	0.41
5:Ad:120:ILE:O	5:Ad:124:VAL:HG12	2.20	0.41
5:Ad:241:VAL:HG23	5:Ad:263:ILE:CD1	2.50	0.41
6:Ae:14:GLN:HA	6:Ae:17:LEU:HB3	2.02	0.41
14:An:49:ILE:HA	14:An:49:ILE:HD13	1.86	0.41
14:An:119:LEU:HD13	27:AB:123:PHE:CE2	2.55	0.41
21:Au:88:ARG:HD3	43:1:435:A:OP2	2.20	0.41
25:Ay:73:LEU:HA	25:Ay:73:LEU:HD23	1.76	0.41
26:AA:47:SER:HB2	30:AF:224:THR:HG23	2.02	0.41
30:AF:158:LYS:HE2	30:AF:158:LYS:HB2	1.83	0.41
31:AG:49:ARG:HG2	43:1:1897:A:OP1	2.19	0.41
34:AJ:25:PHE:CD2	34:AJ:78:ILE:CG2	3.03	0.41
35:AK:93:LYS:HA	35:AK:93:LYS:HD2	1.67	0.41
35:AK:120:MET:HA	35:AK:123:GLU:OE1	2.19	0.41
37:AM:72:SER:HB3	37:AM:76:THR:HG23	2.02	0.41
39:AO:141:LYS:HB2	39:AO:141:LYS:HE2	1.83	0.41
40:AP:643:ALA:HB1	43:1:492:G:C2	2.54	0.41
43:1:208:A:C6	43:1:563:A:C4	3.08	0.41
43:1:551:G:C2	43:1:2705:G:C5	3.08	0.41
43:1:690:A:O2'	43:1:691:A:H8	2.02	0.41
43:1:735:G:C2	43:1:1412:G:C6	3.08	0.41
43:1:826:C:H6	43:1:826:C:O5'	2.03	0.41
43:1:847:G:N2	43:1:870:G:C4	2.88	0.41
43:1:961:C:H2'	43:1:962:G:O4'	2.19	0.41
43:1:1006:G:O2'	44:3:81:A:N3	2.52	0.41
43:1:1016:U:C4	43:1:1053:G:N2	2.88	0.41
43:1:1312:G:C2	43:1:1313:A:C8	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1370:A:C5	43:1:1371:G:C8	3.08	0.41
43:1:1381:G:C8	43:1:1381:G:OP2	2.73	0.41
43:1:1663:A:C8	43:1:1880:G:N2	2.88	0.41
43:1:1677:A:O2'	43:1:1678:A:O5'	2.38	0.41
43:1:1841:C:O2'	43:1:1842:U:P	2.78	0.41
43:1:1869:U:C2	43:1:1870:C:C6	3.08	0.41
43:1:2016:G:N1	43:1:2079:A:N7	2.68	0.41
43:1:2106:A:C5	43:1:2107:C:N3	2.87	0.41
43:1:2214:G:H2'	43:1:2215:G:C8	2.54	0.41
43:1:2573:G:C5	43:1:2574:U:C4	3.08	0.41
43:1:2669:A:P	43:1:2669:A:H8	2.43	0.41
43:1:2811:A:C4	43:1:2872:G:N2	2.88	0.41
43:1:2811:A:N6	43:1:2872:G:C6	2.88	0.41
43:1:2886:G:C6	43:1:2905:G:N1	2.88	0.41
43:1:3125:A:C2	43:1:3126:G:C4	3.08	0.41
45:Bb:528:THR:HG23	45:Bb:530:TYR:HB2	2.02	0.41
48:Bi:215:GLU:CB	54:Bz:298:VAL:HG12	2.49	0.41
50:Bm:109:TYR:O	50:Bm:113:LYS:HE3	2.20	0.41
50:Bm:113:LYS:O	50:Bm:114:LEU:C	2.63	0.41
52:Bw:297:GLU:HG2	52:Bw:304:LEU:HD21	2.02	0.41
52:Bw:339:LEU:HG	52:Bw:343:LEU:HD22	2.02	0.41
52:Bw:418:ASP:OD1	52:Bw:419:VAL:N	2.50	0.41
55:BA:44:MET:HE2	55:BA:49:ILE:HB	2.01	0.41
60:Ba:55:HIS:CD2	60:Ba:59:ASN:HD21	2.37	0.41
61:Bc:37:ILE:HG12	85:2:443:C:C5	2.54	0.41
61:Bc:205:LYS:HB3	61:Bc:208:CYS:HB3	2.02	0.41
61:Bc:262:LEU:HA	61:Bc:266:ARG:HD3	2.02	0.41
65:Bj:303:HIS:O	85:2:713:G:C8	2.72	0.41
72:Bv:162:LYS:HB2	72:Bv:165:GLU:CD	2.45	0.41
77:BE:75:ARG:HB2	77:BE:75:ARG:NH2	2.35	0.41
77:BE:168:THR:O	77:BE:208:ASN:HA	2.19	0.41
78:BI:195:ALA:HB3	78:BI:228:ALA:HB3	2.02	0.41
85:2:168:G:N1	85:2:169:G:C5	2.89	0.41
85:2:348:A:C4	85:2:351:G:C5	3.08	0.41
85:2:615:A:O2'	85:2:616:A:O4'	2.33	0.41
85:2:692:U:H3'	85:2:693:C:C6	2.54	0.41
85:2:694:U:H2'	85:2:695:A:H8	1.84	0.41
85:2:945:U:C2	85:2:946:G:C8	3.07	0.41
85:2:998:A:C6	85:2:1028:A:C6	3.08	0.41
85:2:1117:U:H2'	85:2:1118:U:H2'	2.02	0.41
85:2:1202:C:O2'	85:2:1203:U:O5'	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1209:A:O2'	85:2:1210:A:C8	2.64	0.41
85:2:1376:A:HO2'	85:2:1377:G:H8	1.63	0.41
85:2:1399:G:C6	85:2:1400:C:N4	2.88	0.41
86:Az:27:LEU:O	86:Az:27:LEU:CG	2.66	0.41
89:Bk:68:PRO:CB	89:Bk:96:HIS:CE1	2.88	0.41
2:Ab:75:HIS:HD2	2:Ab:76:ASN:CG	2.28	0.41
3:Ac:271:ALA:HB3	3:Ac:273:GLY:O	2.20	0.41
6:Ae:39:LYS:HD3	6:Ae:39:LYS:C	2.46	0.41
9:Ai:34:PRO:HB2	43:1:1246:U:C2	2.54	0.41
10:Aj:166:GLU:HB3	43:1:1292:A:OP2	2.20	0.41
12:Al:75:ARG:NH2	43:1:804:U:O2'	2.53	0.41
13:Am:93:HIS:NE2	13:Am:160:GLN:OE1	2.53	0.41
14:An:29:GLU:HB3	14:An:115:ARG:HH21	1.85	0.41
17:Aq:65:TYR:HD2	43:1:1159:A:H4'	1.85	0.41
19:As:191:HIS:HB2	19:As:195:ARG:O	2.20	0.41
20:At:58:LYS:HB2	20:At:87:THR:HG21	2.01	0.41
22:Av:46:ARG:N	44:3:96:G:O6	2.42	0.41
24:Ax:49:ALA:C	24:Ax:51:ARG:H	2.28	0.41
25:Ay:72:ASP:HB3	31:AG:73:LEU:HD11	2.02	0.41
25:Ay:113:SER:HA	25:Ay:116:ARG:HH21	1.85	0.41
39:AO:216:ILE:O	39:AO:219:MET:HB3	2.20	0.41
39:AO:474:VAL:O	39:AO:475:GLU:HG3	2.20	0.41
43:1:423:G:C6	43:1:481:U:N3	2.88	0.41
43:1:462:G:C2	43:1:618:A:C6	3.09	0.41
43:1:584:A:H2	43:1:1401:G:N3	2.19	0.41
43:1:823:G:C6	43:1:942:G:C2	3.08	0.41
43:1:880:C:H2'	43:1:881:C:C6	2.54	0.41
43:1:1002:G:C4	43:1:2570:A:C2	3.08	0.41
43:1:1102:G:C6	43:1:1103:G:C5	3.08	0.41
43:1:1102:G:C6	43:1:1103:G:C6	3.08	0.41
43:1:1319:U:H2'	43:1:1320:G:C8	2.56	0.41
43:1:1593:G:C2	43:1:1594:G:C4	3.08	0.41
43:1:1983:U:H2'	43:1:1984:G:O4'	2.19	0.41
43:1:2081:G:C6	43:1:2300:G:C2	3.08	0.41
43:1:2190:C:H2'	43:1:2191:U:O4'	2.19	0.41
43:1:2460:U:H2'	43:1:2461:C:C5	2.55	0.41
43:1:2538:U:C4	43:1:2539:G:C5	3.09	0.41
43:1:3036:U:H2'	43:1:3037:G:C8	2.55	0.41
45:Bb:473:LYS:O	45:Bb:477:GLU:HG3	2.20	0.41
49:Bl:108:ARG:O	49:Bl:112:VAL:HG23	2.20	0.41
50:Bm:101:SER:HA	50:Bm:104:ARG:HH11	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:Bm:115:PRO:HB3	85:2:1015:C:OP1	2.20	0.41
51:Br:162:ARG:C	51:Br:195:LYS:HD3	2.45	0.41
52:Bw:224:ALA:O	52:Bw:227:VAL:HG12	2.20	0.41
52:Bw:248:HIS:HA	52:Bw:366:GLU:OE2	2.20	0.41
54:Bz:293:TRP:CH2	54:Bz:361:ARG:HD3	2.56	0.41
56:Bt:71:LYS:HG2	85:2:1635:G:N7	2.35	0.41
60:Ba:108:THR:HG23	60:Ba:148:GLU:HB3	2.02	0.41
60:Ba:132:ASP:OD1	60:Ba:132:ASP:N	2.51	0.41
61:Bc:336:ILE:HA	61:Bc:339:ILE:HD11	2.02	0.41
62:Bd:346:THR:O	62:Bd:350:ARG:HG3	2.20	0.41
64:Bg:68:VAL:HG13	64:Bg:69:ASN:N	2.32	0.41
69:Bq:171:VAL:O	69:Bq:175:ALA:CB	2.67	0.41
75:BC:63:GLU:HG2	75:BC:64:LEU:H	1.85	0.41
78:BI:240:ALA:HA	85:2:1834:A:OP2	2.20	0.41
85:2:212:G:C2	85:2:213:C:C6	3.07	0.41
85:2:392:A:H4'	85:2:472:G:N2	2.35	0.41
85:2:392:A:N1	85:2:409:C:H1'	2.36	0.41
85:2:681:G:C2	85:2:698:G:H1'	2.55	0.41
85:2:910:G:H2'	85:2:911:A:C8	2.55	0.41
85:2:1110:U:H2'	85:2:1111:C:O4'	2.20	0.41
85:2:1388:A:HO2'	85:2:1389:G:P	2.30	0.41
85:2:1507:A:C2	85:2:1531:G:C4	3.08	0.41
85:2:1658:G:H8	85:2:1658:G:O5'	2.03	0.41
85:2:1665:G:C2	85:2:1668:A:OP2	2.73	0.41
85:2:1756:C:C2	85:2:1757:A:C8	3.08	0.41
85:2:1823:U:H1'	85:2:1824:A:O4'	2.20	0.41
85:2:1851:A:C5	85:2:1852:U:C4	3.08	0.41
85:2:1863:C:O2'	85:2:1864:A:O5'	2.37	0.41
2:Ab:170:GLU:H	2:Ab:170:GLU:CD	2.27	0.41
3:Ac:115:VAL:HA	3:Ac:119:GLY:CA	2.50	0.41
5:Ad:104:MET:HB2	5:Ad:284:ARG:CZ	2.50	0.41
7:Af:2:GLU:O	7:Af:4:LYS:HG3	2.21	0.41
7:Af:27:LEU:HD23	7:Af:27:LEU:HA	1.89	0.41
9:Ai:84:VAL:HG11	9:Ai:139:ILE:HG22	2.00	0.41
9:Ai:122:GLN:NE2	9:Ai:131:PRO:O	2.54	0.41
11:Ak:66:MET:HE2	11:Ak:88:LYS:HD2	2.01	0.41
15:Ao:54:ARG:HH22	44:3:115:G:H5'	1.85	0.41
16:Ap:108:THR:O	16:Ap:112:ILE:HG13	2.21	0.41
20:At:31:PHE:HE1	20:At:88:LEU:HD21	1.84	0.41
20:At:99:PHE:CD2	20:At:101:VAL:HG13	2.54	0.41
21:Au:56:HIS:CE1	43:1:638:G:H1'	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Av:58:ILE:HD13	22:Av:58:ILE:HA	1.87	0.41
22:Av:111:ILE:O	22:Av:112:ARG:C	2.63	0.41
23:Aw:73:GLY:HA2	23:Aw:111:ARG:HE	1.85	0.41
30:AF:209:LEU:HD23	30:AF:209:LEU:H	1.85	0.41
37:AM:48:LYS:O	37:AM:49:VAL:HB	2.20	0.41
38:AN:145:GLU:O	38:AN:148:ARG:HB2	2.20	0.41
39:AO:286:ILE:HD13	39:AO:286:ILE:HA	1.90	0.41
39:AO:344:TYR:OH	39:AO:352:LYS:HE3	2.20	0.41
43:1:27:A:H2'	43:1:27:A:N3	2.35	0.41
43:1:67:G:N2	43:1:73:G:N3	2.68	0.41
43:1:276:A:H4'	43:1:295:C:O2	2.19	0.41
43:1:435:A:N6	43:1:449:G:C2	2.89	0.41
43:1:475:A:C6	43:1:476:U:C2	3.09	0.41
43:1:616:U:O2'	43:1:647:A:N3	2.42	0.41
43:1:620:A:C2	43:1:621:A:C5	3.09	0.41
43:1:892:G:C5	43:1:894:A:C5	3.08	0.41
43:1:953:G:C2	43:1:954:U:N3	2.88	0.41
43:1:1002:G:C2	43:1:2570:A:C2	3.08	0.41
43:1:1180:G:N1	43:1:1273:C:N3	2.68	0.41
43:1:1340:U:P	86:Az:48:ARG:HH22	2.44	0.41
43:1:1467:G:N2	43:1:1470:U:O4	2.52	0.41
43:1:1626:U:O2'	43:1:1627:A:C8	2.69	0.41
43:1:1657:A:O2'	43:1:1658:A:H8	2.03	0.41
43:1:1669:G:O2'	43:1:1670:A:P	2.78	0.41
43:1:1846:U:H1'	43:1:1850:G:O6	2.20	0.41
43:1:2117:C:C2	43:1:2135:U:C2	3.07	0.41
43:1:2171:A:H2'	43:1:2172:A:H8	1.84	0.41
43:1:2229:A:O2'	43:1:2231:C:C4	2.73	0.41
43:1:2265:G:O2'	43:1:2267:A:N7	2.49	0.41
43:1:2281:A:C8	43:1:2283:G:C4	3.08	0.41
43:1:2314:G:C6	43:1:2315:G:C5	3.08	0.41
43:1:2410:C:C2	43:1:2411:U:C5	3.08	0.41
43:1:2441:C:O2'	43:1:2454:G:N2	2.44	0.41
43:1:2493:U:C2	43:1:2527:A:N7	2.87	0.41
43:1:2752:G:C5	43:1:2753:G:C8	3.08	0.41
44:3:13:A:O2'	44:3:14:C:H5''	2.20	0.41
44:3:23:G:N2	44:3:66:U:O2	2.38	0.41
44:3:84:G:H2'	44:3:85:A:H8	1.85	0.41
46:Bf:21:LYS:HE2	46:Bf:21:LYS:HB2	1.83	0.41
46:Bf:54:VAL:O	46:Bf:57:ILE:HG22	2.20	0.41
52:Bw:360:SER:HG	52:Bw:382:ARG:HH11	1.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:Bw:456:GLU:O	52:Bw:459:LYS:N	2.53	0.41
54:Bz:315:MET:SD	54:Bz:364:CYS:HB3	2.60	0.41
60:Ba:185:VAL:O	60:Ba:185:VAL:HG23	2.19	0.41
61:Bc:128:SER:OG	61:Bc:129:HIS:N	2.53	0.41
61:Bc:257:LEU:O	61:Bc:260:LEU:HB3	2.20	0.41
64:Bg:17:GLU:OE2	64:Bg:64:LEU:HB2	2.19	0.41
65:Bj:227:ASP:O	65:Bj:228:LEU:HD12	2.21	0.41
67:Bo:37:LEU:HA	67:Bo:55:LYS:NZ	2.28	0.41
69:Bq:171:VAL:O	69:Bq:175:ALA:HB2	2.21	0.41
69:Bq:178:ARG:NH2	69:Bq:179:ASN:OD1	2.53	0.41
75:BC:46:LEU:C	75:BC:48:GLY:N	2.79	0.41
77:BE:108:TYR:HB3	77:BE:355:ILE:HG21	2.02	0.41
77:BE:191:ARG:NH1	77:BE:326:GLN:O	2.53	0.41
77:BE:307:GLU:HG2	77:BE:358:ARG:HH12	1.84	0.41
78:BI:213:ALA:H	78:BI:216:ALA:HB3	1.85	0.41
85:2:167:U:O2	85:2:217:A:H2	2.03	0.41
85:2:388:G:C4	85:2:411:A:C2	3.08	0.41
85:2:587:G:C6	85:2:588:A:N7	2.88	0.41
85:2:613:A:C2	85:2:614:A:C5	3.08	0.41
85:2:984:U:C2	85:2:1562:U:H1'	2.55	0.41
85:2:1089:C:H2'	85:2:1090:U:H6	1.85	0.41
85:2:1131:G:C6	85:2:1487:G:N1	2.89	0.41
85:2:1155:C:C2	85:2:1156:G:N2	2.89	0.41
85:2:1467:U:O2'	85:2:1468:C:H6	2.03	0.41
85:2:1588:A:C2	85:2:1591:G:N3	2.89	0.41
85:2:1774:U:H2'	85:2:1775:U:H6	1.85	0.41
88:BK:282:ALA:HA	88:BK:315:ALA:CB	2.50	0.41
1:Aa:41:LEU:HD13	1:Aa:64:ASN:ND2	2.34	0.41
1:Aa:44:ILE:HG12	1:Aa:84:ASN:ND2	2.30	0.41
2:Ab:111:PRO:C	2:Ab:113:GLY:N	2.78	0.41
2:Ab:141:LYS:HB2	43:1:873:G:C5	2.56	0.41
12:Al:196:ARG:HA	12:Al:214:ARG:HD2	2.02	0.41
13:Am:152:GLY:O	13:Am:154:SER:N	2.53	0.41
16:Ap:139:VAL:HA	16:Ap:198:VAL:O	2.20	0.41
30:AF:197:ILE:H	30:AF:197:ILE:HG13	1.67	0.41
31:AG:23:LEU:HD11	31:AG:30:ARG:CD	2.48	0.41
33:AI:99:ASP:N	33:AI:105:ARG:HD2	2.36	0.41
39:AO:130:LEU:HD23	39:AO:130:LEU:HA	1.93	0.41
39:AO:273:LEU:HA	39:AO:276:ARG:CG	2.50	0.41
39:AO:418:SER:HA	39:AO:422:GLN:HB2	2.02	0.41
40:AP:171:ALA:HB2	43:1:794:U:O4	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:44:G:C6	43:1:45:A:N6	2.88	0.41
43:1:135:C:C4	43:1:150:C:N4	2.87	0.41
43:1:156:G:C6	43:1:157:G:C6	3.09	0.41
43:1:156:G:C4	43:1:157:G:C8	3.08	0.41
43:1:179:G:H2'	43:1:180:A:O4'	2.19	0.41
43:1:310:A:H2	43:1:487:G:C2	2.38	0.41
43:1:506:A:C5	43:1:507:A:N7	2.89	0.41
43:1:528:G:C5	43:1:529:A:N6	2.88	0.41
43:1:549:G:C2	43:1:550:G:C8	3.09	0.41
43:1:550:G:C2	43:1:551:G:C4	3.09	0.41
43:1:560:U:N3	43:1:561:C:C4	2.88	0.41
43:1:687:G:O2'	43:1:688:U:P	2.78	0.41
43:1:703:C:C4	43:1:704:U:C4	3.08	0.41
43:1:761:C:N3	43:1:767:G:C2	2.76	0.41
43:1:818:A:N7	43:1:948:A:C5	2.88	0.41
43:1:944:A:C2	43:1:946:A:C8	3.08	0.41
43:1:989:G:O6	43:1:1079:C:O2'	2.32	0.41
43:1:992:G:C6	43:1:993:A:C6	3.08	0.41
43:1:996:G:C6	43:1:997:C:N4	2.88	0.41
43:1:1024:G:H2'	43:1:1025:G:C8	2.55	0.41
43:1:1119:U:OP1	86:Az:35:ARG:NH1	2.43	0.41
43:1:1172:U:OP2	43:1:1174:G:O2'	2.37	0.41
43:1:1189:G:C2	43:1:1190:A:H1'	2.55	0.41
43:1:1466:G:HO2'	43:1:1946:C:HO2'	1.58	0.41
43:1:1651:U:O2'	43:1:1652:U:O5'	2.38	0.41
43:1:1673:C:O2'	43:1:1674:A:C8	2.73	0.41
43:1:2071:C:N4	43:1:2072:A:C6	2.89	0.41
43:1:2201:A:H2'	43:1:2202:G:O4'	2.20	0.41
43:1:2237:U:H2'	43:1:2238:A:H3'	2.02	0.41
43:1:2321:G:H5'	43:1:2322:U:OP2	2.21	0.41
43:1:2594:A:C6	43:1:2639:G:O6	2.73	0.41
43:1:2651:G:C6	43:1:2652:A:C5	3.09	0.41
43:1:2768:G:H2'	43:1:2769:A:H8	1.84	0.41
43:1:3049:G:H1'	43:1:3053:A:C2	2.55	0.41
43:1:3111:A:N6	43:1:3156:A:C6	2.88	0.41
44:3:74:C:C2	44:3:75:A:C8	3.08	0.41
44:3:78:U:C4	44:3:79:G:N7	2.88	0.41
45:Bb:528:THR:C	45:Bb:530:TYR:H	2.28	0.41
46:Bf:120:GLN:HG3	46:Bf:122:ARG:CG	2.50	0.41
49:Bl:102:VAL:HG23	49:Bl:103:GLY:N	2.36	0.41
52:Bw:373:PRO:HG2	85:2:1617:U:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:Bc:25:LEU:CD2	61:Bc:74:LYS:HG2	2.50	0.41
61:Bc:107:PHE:CE2	61:Bc:139:VAL:HG23	2.56	0.41
61:Bc:127:ILE:CG2	61:Bc:140:SER:HA	2.51	0.41
61:Bc:181:GLY:N	61:Bc:192:ARG:HH21	2.19	0.41
61:Bc:228:ASP:O	61:Bc:232:THR:OG1	2.23	0.41
62:Bd:318:SER:HA	62:Bd:321:ASP:OD2	2.20	0.41
63:Be:81:TYR:CD2	63:Be:82:LEU:HD23	2.55	0.41
66:Bn:323:ASN:OD1	66:Bn:324:MET:N	2.53	0.41
70:Bs:85:ASP:O	70:Bs:89:LYS:HG3	2.21	0.41
76:BD:196:ASN:C	76:BD:198:GLU:H	2.28	0.41
77:BE:276:LEU:HD12	77:BE:282:ILE:HA	2.01	0.41
85:2:183:A:H4'	85:2:184:A:H5''	2.02	0.41
85:2:436:G:N1	85:2:446:U:C2	2.89	0.41
85:2:744:A:C6	85:2:745:C:C4	3.09	0.41
85:2:1026:U:H5'	85:2:1027:C:OP2	2.21	0.41
85:2:1053:G:H2'	85:2:1054:U:C6	2.54	0.41
85:2:1056:G:N2	85:2:1541:A:OP2	2.46	0.41
85:2:1167:A:N1	85:2:1168:G:N2	2.68	0.41
85:2:1211:C:O2'	85:2:1212:U:H6	1.99	0.41
85:2:1814:G:O2'	85:2:1815:U:P	2.78	0.41
85:2:1833:A:C4	85:2:1834:A:C8	3.08	0.41
88:BK:39:ALA:HA	88:BK:42:ALA:HB3	2.02	0.41
3:Ac:79:ILE:HD12	3:Ac:176:PHE:CE2	2.55	0.41
12:Al:168:ILE:HG13	12:Al:172:ILE:HD11	2.03	0.41
15:Ao:35:ILE:HG13	15:Ao:39:THR:HA	2.02	0.41
15:Ao:35:ILE:CD1	15:Ao:42:VAL:HA	2.50	0.41
19:As:190:TYR:CZ	43:1:1949:A:C4	3.08	0.41
22:Av:161:VAL:HG22	22:Av:198:GLU:HA	2.01	0.41
24:Ax:84:ILE:HG23	24:Ax:85:PHE:N	2.34	0.41
26:AA:41:LYS:HG3	26:AA:54:PHE:HE1	1.85	0.41
29:AE:11:CYS:C	29:AE:13:PHE:H	2.29	0.41
30:AF:214:THR:O	33:AI:161:TYR:OH	2.19	0.41
32:AH:136:VAL:HG13	32:AH:137:GLN:H	1.85	0.41
33:AI:203:SER:OG	33:AI:204:ASN:N	2.52	0.41
39:AO:251:ALA:HA	39:AO:254:GLU:CG	2.49	0.41
39:AO:274:TYR:HB3	39:AO:308:VAL:HG11	2.02	0.41
41:AQ:365:ARG:C	41:AQ:367:LEU:N	2.79	0.41
43:1:55:A:C6	43:1:109:C:N3	2.89	0.41
43:1:167:A:H2'	43:1:168:C:O4'	2.20	0.41
43:1:609:G:C4	43:1:610:G:C8	3.08	0.41
43:1:967:C:H2'	43:1:968:U:H6	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:992:G:O2'	43:1:993:A:H5'	2.21	0.41
43:1:1006:G:H2'	43:1:1007:A:O4'	2.20	0.41
43:1:1080:G:H3'	43:1:1080:G:N3	2.35	0.41
43:1:1205:G:O2'	43:1:1235:A:H1'	2.21	0.41
43:1:1313:A:N1	43:1:1314:G:C5	2.89	0.41
43:1:1444:A:H4'	43:1:1445:C:OP2	2.19	0.41
43:1:1453:C:H2'	43:1:1454:C:C6	2.52	0.41
43:1:1588:C:H3'	43:1:1589:U:C5'	2.51	0.41
43:1:1664:A:C6	43:1:1665:C:C5	3.08	0.41
43:1:1664:A:N3	43:1:1665:C:H5'	2.36	0.41
43:1:1666:C:HO2'	43:1:1667:U:H6	1.65	0.41
43:1:2138:A:C5	43:1:2139:G:N7	2.88	0.41
43:1:2238:A:C6	43:1:2239:A:C6	3.08	0.41
43:1:2291:G:C2	43:1:2293:C:C2	3.09	0.41
43:1:2596:G:H2'	43:1:2597:C:C6	2.55	0.41
43:1:2834:G:C5	43:1:2835:U:C4	3.09	0.41
43:1:2977:G:C5	43:1:2978:C:C4	3.08	0.41
44:3:25:G:H1	44:3:65:G:N2	2.18	0.41
45:Bb:22:TRP:CH2	45:Bb:31:PHE:HB3	2.56	0.41
45:Bb:467:PHE:HZ	45:Bb:494:LYS:HZ3	1.69	0.41
45:Bb:519:ILE:HG13	45:Bb:519:ILE:O	2.20	0.41
50:Bm:113:LYS:CE	51:Br:148:LYS:HB3	2.49	0.41
51:Br:132:MET:O	51:Br:136:VAL:HG12	2.20	0.41
52:Bw:210:VAL:HG22	52:Bw:423:ALA:CB	2.51	0.41
52:Bw:464:LEU:C	52:Bw:466:ASN:H	2.27	0.41
60:Ba:113:PRO:HA	62:Bd:342:ARG:HD2	2.02	0.41
61:Bc:148:HIS:HE1	76:BD:299:LEU:HD23	1.85	0.41
61:Bc:167:ARG:NE	61:Bc:206:ARG:HH12	2.19	0.41
65:Bj:221:THR:C	65:Bj:223:GLY:H	2.27	0.41
76:BD:184:SER:O	76:BD:188:GLU:HB3	2.20	0.41
76:BD:336:VAL:O	76:BD:336:VAL:HG13	2.21	0.41
77:BE:355:ILE:O	77:BE:360:VAL:HG23	2.21	0.41
78:BI:213:ALA:HB3	78:BI:216:ALA:HB2	2.01	0.41
85:2:251:G:C5	85:2:252:C:C5	3.09	0.41
85:2:449:U:O2	85:2:450:A:C8	2.73	0.41
85:2:464:G:H2'	85:2:465:A:H8	1.85	0.41
85:2:489:A:C5	85:2:490:G:C5	3.08	0.41
85:2:671:A:C4	85:2:672:U:C5	3.08	0.41
85:2:819:A:H2'	85:2:820:G:H8	1.84	0.41
85:2:826:G:C6	85:2:827:C:C4	3.08	0.41
85:2:904:U:OP2	89:Bk:94:LYS:CE	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1055:C:C4	85:2:1056:G:C5	3.08	0.41
85:2:1099:C:H2'	85:2:1100:G:O4'	2.20	0.41
85:2:1131:G:C6	85:2:1487:G:C6	3.08	0.41
85:2:1500:A:C3'	85:2:1501:C:H5'	2.50	0.41
85:2:1660:U:H5''	85:2:1661:C:OP2	2.19	0.41
85:2:1833:A:C6	85:2:1834:A:C5	3.08	0.41
88:BK:262:ALA:HA	88:BK:296:ALA:HB2	2.02	0.41
88:BK:293:ALA:C	88:BK:295:ALA:H	2.28	0.41
1:Aa:61:TYR:OH	43:1:1890:G:OP2	2.36	0.41
3:Ac:127:CYS:O	3:Ac:151:LYS:HB3	2.20	0.41
7:Af:5:PHE:CA	34:AJ:48:ARG:HH21	2.33	0.41
10:Aj:90:PHE:N	10:Aj:90:PHE:HD1	2.17	0.41
10:Aj:165:ARG:HD3	10:Aj:165:ARG:HA	1.88	0.41
12:Al:255:ILE:O	12:Al:255:ILE:HG13	2.20	0.41
14:An:17:MET:HB3	14:An:17:MET:HE2	1.81	0.41
14:An:83:ARG:HH12	14:An:115:ARG:HG2	1.85	0.41
19:As:111:LYS:HD3	19:As:205:ARG:HH12	1.84	0.41
25:Ay:112:ARG:O	25:Ay:115:CYS:HB3	2.21	0.41
26:AA:59:ASN:HD22	33:AI:70:LEU:HD12	1.85	0.41
30:AF:199:ALA:HB3	33:AI:188:PHE:HE1	1.86	0.41
35:AK:92:GLU:O	35:AK:95:GLU:HG3	2.20	0.41
36:AL:61:ASP:O	86:Az:17:GLN:HG3	2.19	0.41
37:AM:70:PRO:HB3	37:AM:123:THR:HA	2.03	0.41
39:AO:258:LYS:HD3	39:AO:258:LYS:C	2.46	0.41
39:AO:292:LEU:C	39:AO:294:ILE:HG13	2.45	0.41
39:AO:325:TRP:HE1	39:AO:332:TYR:HB3	1.86	0.41
41:AQ:429:ILE:HD12	41:AQ:462:VAL:HG21	2.02	0.41
41:AQ:465:LYS:HA	41:AQ:465:LYS:HD2	1.86	0.41
43:1:129:A:N1	43:1:156:G:N1	2.69	0.41
43:1:138:G:O2'	43:1:139:G:H8	2.04	0.41
43:1:205:G:C4	43:1:568:U:C4	3.09	0.41
43:1:530:U:H2'	43:1:531:C:C6	2.56	0.41
43:1:689:C:H1'	43:1:690:A:C4	2.55	0.41
43:1:735:G:C5	43:1:1407:A:N6	2.89	0.41
43:1:995:G:C2	43:1:996:G:C5	3.09	0.41
43:1:1258:C:C5	43:1:1259:U:C4	3.08	0.41
43:1:1353:G:C2	43:1:1354:U:C5	3.08	0.41
43:1:1458:C:O2'	43:1:1942:C:O2'	2.08	0.41
43:1:1471:U:H2'	43:1:1472:C:H6	1.84	0.41
43:1:1568:G:C6	43:1:1569:A:C6	3.09	0.41
43:1:1587:U:H4'	43:1:1622:A:OP1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1601:U:C2	43:1:1604:G:C6	3.08	0.41
43:1:2102:A:N7	43:1:2104:A:C5	2.88	0.41
43:1:2175:G:N3	43:1:2175:G:H2'	2.35	0.41
43:1:2237:U:C2	43:1:2239:A:OP2	2.74	0.41
43:1:2348:G:N2	43:1:2349:G:C4	2.88	0.41
43:1:2868:G:C6	43:1:2869:U:N3	2.89	0.41
43:1:2883:U:HO2'	43:1:2884:U:P	2.43	0.41
43:1:2893:G:N1	43:1:2897:G:O6	2.53	0.41
43:1:3092:U:H2'	43:1:3093:U:C6	2.55	0.41
43:1:3093:U:C4	43:1:3095:A:N1	2.89	0.41
44:3:66:U:C6	44:3:67:C:H5	2.38	0.41
44:3:69:U:C4	44:3:70:G:N2	2.88	0.41
44:3:86:G:H4'	86:Az:67:ARG:HD3	1.12	0.41
45:Bb:527:PHE:HD2	45:Bb:529:ARG:H	1.68	0.41
47:Bh:373:THR:HA	47:Bh:376:VAL:HG12	2.01	0.41
52:Bw:170:TRP:CZ2	52:Bw:447:LEU:HB2	2.55	0.41
52:Bw:464:LEU:HG	52:Bw:466:ASN:OD1	2.21	0.41
53:Bx:24:ARG:NH1	54:Bz:335:LEU:HA	2.35	0.41
55:BA:53:LYS:O	55:BA:56:LYS:NZ	2.52	0.41
60:Ba:11:LEU:O	60:Ba:14:THR:OG1	2.30	0.41
60:Ba:24:GLU:HG3	60:Ba:163:ASN:N	2.35	0.41
61:Bc:29:VAL:O	61:Bc:31:ASN:N	2.53	0.41
61:Bc:151:ILE:HG12	61:Bc:329:VAL:HB	2.03	0.41
61:Bc:156:GLU:O	61:Bc:160:ILE:HG23	2.20	0.41
62:Bd:479:ARG:NH1	85:2:17:G:C8	2.89	0.41
63:Be:23:VAL:HA	63:Be:26:ILE:CD1	2.50	0.41
63:Be:73:PRO:C	63:Be:75:MET:N	2.78	0.41
65:Bj:217:LYS:HE3	65:Bj:217:LYS:HB2	1.76	0.41
66:Bn:373:ASP:O	66:Bn:377:ARG:HG2	2.20	0.41
67:Bo:29:ARG:NH1	85:2:408:U:O3'	2.21	0.41
72:Bv:137:GLN:NE2	72:Bv:141:LYS:HG3	2.34	0.41
77:BE:192:LEU:HD12	77:BE:193:PRO:HD2	2.03	0.41
78:BI:206:ALA:HB1	85:2:1833:A:OP2	2.21	0.41
85:2:45:U:O2	85:2:545:G:C2	2.73	0.41
85:2:49:U:H5''	85:2:50:A:OP2	2.21	0.41
85:2:290:C:H2'	85:2:291:C:C6	2.55	0.41
85:2:502:G:C2	85:2:503:G:C5	3.08	0.41
85:2:511:C:H2'	85:2:512:G:H8	1.85	0.41
85:2:578:G:N1	85:2:755:G:OP2	2.47	0.41
85:2:579:U:O2	85:2:756:G:N1	2.54	0.41
85:2:944:G:C4	85:2:1581:G:C2	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:971:A:H8	85:2:972:C:C5	2.38	0.41
85:2:978:C:C4	85:2:1571:G:N2	2.89	0.41
85:2:990:U:N3	85:2:991:A:N7	2.68	0.41
85:2:1061:C:O2'	85:2:1542:C:H1'	2.21	0.41
85:2:1206:G:O6	85:2:1381:G:C2'	2.69	0.41
85:2:1736:G:H2'	85:2:1737:C:C6	2.55	0.41
85:2:1772:G:H2'	85:2:1773:U:O4'	2.20	0.41
85:2:1777:G:C6	85:2:1778:C:N4	2.89	0.41
85:2:1841:U:C2	85:2:1842:G:N7	2.89	0.41
85:2:1846:G:N3	85:2:1847:U:O4'	2.53	0.41
86:Az:30:THR:HG21	86:Az:35:ARG:HG2	2.02	0.41
88:BK:51:ALA:O	88:BK:52:ALA:HB3	2.21	0.41
6:Ae:21:ASN:OD1	6:Ae:21:ASN:N	2.54	0.41
6:Ae:113:MET:HE2	6:Ae:138:PHE:HD2	1.85	0.41
7:Af:5:PHE:O	7:Af:58:THR:HA	2.21	0.41
10:Aj:22:ILE:C	10:Aj:24:ARG:N	2.79	0.41
11:Ak:71:LEU:HD11	11:Ak:103:TYR:CE2	2.55	0.41
14:An:94:LEU:HA	14:An:110:ILE:HG13	2.03	0.41
14:An:98:ARG:HG3	14:An:98:ARG:O	2.21	0.41
18:Ar:176:THR:O	18:Ar:194:LEU:HD22	2.21	0.41
18:Ar:177:LYS:O	18:Ar:178:VAL:HG23	2.20	0.41
18:Ar:193:ILE:CD1	86:Az:90:LEU:CD1	2.99	0.41
20:At:43:GLU:OE1	31:AG:61:PRO:HG3	2.20	0.41
21:Au:76:ALA:C	21:Au:78:ASN:H	2.28	0.41
22:Av:178:ARG:CZ	43:1:1018:G:H5''	2.51	0.41
25:Ay:63:SER:O	25:Ay:64:GLU:C	2.63	0.41
25:Ay:134:SER:C	25:Ay:136:GLU:H	2.29	0.41
26:AA:37:HIS:ND1	33:AI:63:ARG:HG3	2.36	0.41
32:AH:14:VAL:HG12	32:AH:48:THR:HG22	2.02	0.41
32:AH:50:LEU:HG	32:AH:51:SER:N	2.35	0.41
32:AH:57:TYR:HE1	32:AH:59:LYS:HE3	1.85	0.41
34:AJ:24:GLU:O	34:AJ:28:GLN:HG2	2.20	0.41
34:AJ:52:GLN:HG2	34:AJ:70:ALA:HB2	2.02	0.41
39:AO:208:ASP:OD1	39:AO:211:GLY:N	2.45	0.41
39:AO:270:LEU:HB3	39:AO:274:TYR:CZ	2.55	0.41
39:AO:319:GLU:HB3	39:AO:323:LYS:HZ1	1.86	0.41
41:AQ:218:VAL:HB	41:AQ:247:ILE:HG12	2.03	0.41
41:AQ:347:ARG:C	41:AQ:349:GLY:N	2.78	0.41
41:AQ:440:CYS:O	41:AQ:477:LYS:HG3	2.20	0.41
43:1:250:U:O2	43:1:251:G:H1'	2.21	0.41
43:1:561:C:C2	43:1:562:U:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:637:A:C5	43:1:638:G:C8	3.09	0.41
43:1:771:A:C8	43:1:772:G:C8	3.08	0.41
43:1:1014:A:H2	43:1:1055:G:C4	2.38	0.41
43:1:1062:C:H2'	43:1:1063:G:O4'	2.21	0.41
43:1:1098:U:C2'	43:1:1099:U:H5'	2.50	0.41
43:1:1179:G:N1	43:1:1180:G:C5	2.89	0.41
43:1:1235:A:H4'	43:1:1252:A:N1	2.35	0.41
43:1:1314:G:N3	43:1:1315:A:C8	2.89	0.41
43:1:1390:U:H2'	43:1:1391:G:H8	1.85	0.41
43:1:1452:G:N3	43:1:1452:G:H2'	2.36	0.41
43:1:1573:C:H1'	43:1:1574:A:N6	2.34	0.41
43:1:1840:U:O2'	43:1:1841:C:H6	2.03	0.41
43:1:2339:U:H2'	43:1:2340:G:C8	2.55	0.41
43:1:2591:G:H2'	43:1:2592:G:C8	2.55	0.41
43:1:2651:G:N7	43:1:2663:G:N2	2.68	0.41
43:1:2686:A:C8	43:1:2687:G:C5	3.08	0.41
43:1:2745:G:C6	43:1:2799:C:C2	3.09	0.41
44:3:22:C:H2'	44:3:23:G:C8	2.53	0.41
48:Bi:194:SER:OG	48:Bi:196:GLU:OE1	2.27	0.41
52:Bw:297:GLU:HG2	52:Bw:306:GLY:O	2.20	0.41
60:Ba:59:ASN:O	60:Ba:62:HIS:N	2.50	0.41
60:Ba:79:ILE:HG12	60:Ba:187:LEU:HD23	2.03	0.41
61:Bc:74:LYS:HD2	61:Bc:343:ILE:HG13	2.03	0.41
61:Bc:138:MET:HE2	61:Bc:140:SER:HB3	2.02	0.41
62:Bd:356:LYS:HA	62:Bd:356:LYS:HD3	1.71	0.41
63:Be:3:LEU:O	63:Be:96:HIS:HB2	2.21	0.41
66:Bn:386:LYS:HE2	66:Bn:386:LYS:HB3	1.73	0.41
67:Bo:10:PHE:HB3	67:Bo:17:PHE:HD2	1.85	0.41
67:Bo:18:PHE:HE2	85:2:394:U:H4'	1.86	0.41
68:Bp:65:LYS:HB2	85:2:285:G:H3'	2.02	0.41
72:Bv:99:ASP:O	72:Bv:103:LEU:HD23	2.21	0.41
85:2:163:A:H2'	85:2:164:A:C5	2.55	0.41
85:2:164:A:H3'	85:2:165:A:O4'	2.20	0.41
85:2:365:G:N2	85:2:366:G:C5	2.89	0.41
85:2:367:G:C6	85:2:368:G:N7	2.89	0.41
85:2:512:G:C6	85:2:534:G:C6	3.09	0.41
85:2:1084:A:H8	85:2:1084:A:OP1	2.03	0.41
85:2:1204:A:H3'	85:2:1205:G:H5''	2.03	0.41
85:2:1776:C:O2'	85:2:1777:G:H5'	2.20	0.41
85:2:1783:A:H2'	85:2:1784:G:O4'	2.20	0.41
85:2:1830:A:C4	85:2:1831:C:C4	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1862:C:C4	85:2:1863:C:C4	3.09	0.41
85:2:1921:G:N1	85:2:1922:G:C5	2.89	0.41
88:BK:223:ALA:HB3	88:BK:226:ALA:HB3	2.03	0.41
88:BK:278:ALA:HB2	88:BK:308:ALA:CB	2.51	0.41
2:Ab:141:LYS:HD2	43:1:873:G:C8	2.56	0.41
3:Ac:205:MET:SD	43:1:2877:U:H1'	2.60	0.41
5:Ad:170:PHE:CD2	43:1:1413:C:H4'	2.55	0.41
9:Ai:39:TYR:OH	43:1:1247:A:H4'	2.21	0.41
11:Ak:79:LEU:HD12	11:Ak:80:GLY:N	2.36	0.41
14:An:82:HIS:CD2	38:AN:175:LEU:HD23	2.56	0.41
14:An:131:GLN:CD	43:1:3115:G:H21	2.29	0.41
16:Ap:173:ILE:HD13	16:Ap:186:PHE:HE2	1.86	0.41
17:Aq:27:ARG:HH12	43:1:713:A:H1'	1.85	0.41
19:As:168:ASP:O	19:As:171:ARG:N	2.54	0.41
20:At:20:LEU:O	25:Ay:93:MET:HG2	2.20	0.41
21:Au:11:ARG:HH11	21:Au:13:TRP:H	1.67	0.41
21:Au:137:ASP:CA	31:AG:74:LYS:HB2	2.51	0.41
23:Aw:98:ILE:HG13	23:Aw:102:HIS:HA	2.01	0.41
25:Ay:62:ALA:O	25:Ay:66:ARG:HG3	2.20	0.41
34:AJ:21:SER:O	34:AJ:24:GLU:HB2	2.21	0.41
35:AK:112:LYS:HE3	35:AK:112:LYS:HB2	1.88	0.41
37:AM:103:GLY:C	37:AM:105:LYS:H	2.29	0.41
39:AO:132:CYS:O	39:AO:136:GLU:HG2	2.21	0.41
39:AO:159:MET:HE2	39:AO:159:MET:HB2	1.89	0.41
39:AO:181:ILE:HG23	39:AO:185:LYS:HE2	2.03	0.41
39:AO:347:GLU:OE1	39:AO:349:LEU:HB2	2.21	0.41
43:1:150:C:O2'	43:1:151:U:H6	2.03	0.41
43:1:179:G:C6	43:1:187:U:O2	2.73	0.41
43:1:206:A:C8	43:1:251:G:C5	3.09	0.41
43:1:251:G:C2	43:1:252:G:C4	3.09	0.41
43:1:307:G:H8	43:1:493:A:C8	2.38	0.41
43:1:465:A:C6	43:1:468:C:C2	3.09	0.41
43:1:735:G:N2	43:1:1412:G:C6	2.89	0.41
43:1:784:A:C5	43:1:785:G:C5	3.08	0.41
43:1:850:G:C5	43:1:869:G:N2	2.89	0.41
43:1:854:G:H22	43:1:864:G:N2	2.18	0.41
43:1:859:A:N1	66:Bn:412:ARG:HD3	2.36	0.41
43:1:863:G:H2'	43:1:864:G:H8	1.85	0.41
43:1:930:C:O2'	43:1:931:C:H5'	2.20	0.41
43:1:931:C:C5	43:1:935:C:N3	2.89	0.41
43:1:962:G:C2	43:1:1346:G:O6	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1111:A:H2'	43:1:1112:U:O4'	2.19	0.41
43:1:1186:A:C6	43:1:1268:G:N1	2.89	0.41
43:1:1233:G:H2'	43:1:1234:A:C8	2.56	0.41
43:1:1255:G:N1	43:1:1256:G:C6	2.89	0.41
43:1:1362:A:C4	43:1:1363:U:C5	3.09	0.41
43:1:1419:U:O2'	43:1:1420:G:P	2.79	0.41
43:1:1907:G:H1'	43:1:1908:G:H5''	2.02	0.41
43:1:1986:G:H2'	43:1:1987:A:H8	1.86	0.41
43:1:2086:A:C6	43:1:2295:G:C6	3.09	0.41
43:1:2220:A:C2	43:1:2221:G:C5	3.09	0.41
43:1:2392:U:H2'	43:1:2393:A:C8	2.54	0.41
43:1:2410:C:H2'	43:1:2411:U:C6	2.56	0.41
43:1:2442:G:P	43:1:2444:G:H4'	2.61	0.41
43:1:2479:C:H2'	43:1:2480:G:C8	2.55	0.41
43:1:2637:C:H2'	43:1:2638:U:C6	2.56	0.41
43:1:3011:G:C6	43:1:3012:C:C4	3.09	0.41
43:1:3075:A:H4'	43:1:3076:A:OP2	2.20	0.41
43:1:3120:G:H2'	43:1:3121:U:H6	1.86	0.41
43:1:3130:C:H2'	43:1:3131:G:C8	2.55	0.41
43:1:3151:G:C6	43:1:3152:U:C4	3.09	0.41
44:3:26:A:H5'	44:3:27:A:C8	2.55	0.41
45:Bb:478:ILE:HD12	45:Bb:478:ILE:HA	1.96	0.41
47:Bh:348:LEU:C	47:Bh:351:PRO:HD2	2.46	0.41
47:Bh:424:SER:OG	85:2:1692:G:O3'	2.38	0.41
52:Bw:271:LEU:O	52:Bw:275:VAL:HG13	2.21	0.41
61:Bc:18:ARG:HH22	85:2:450:A:H4'	1.86	0.41
61:Bc:162:ARG:O	61:Bc:166:ILE:HG23	2.21	0.41
62:Bd:312:LYS:HA	62:Bd:312:LYS:HD3	1.83	0.41
64:Bg:40:MET:HG2	64:Bg:128:PHE:HZ	1.84	0.41
68:Bp:43:HIS:HB2	68:Bp:67:LYS:NZ	2.36	0.41
69:Bq:178:ARG:HG3	69:Bq:179:ASN:H	1.85	0.41
72:Bv:71:ARG:HB3	72:Bv:75:LYS:HZ2	1.86	0.41
73:By:83:LYS:NZ	73:By:96:TRP:HZ3	2.19	0.41
76:BD:250:GLU:HG3	76:BD:252:PHE:HE2	1.86	0.41
76:BD:323:TYR:OH	76:BD:325:ARG:NE	2.41	0.41
85:2:70:U:H2'	85:2:71:C:H6	1.85	0.41
85:2:452:A:C6	85:2:453:G:C5	3.08	0.41
85:2:536:G:C2	85:2:537:G:C4	3.09	0.41
85:2:653:G:C5	85:2:654:A:N7	2.88	0.41
85:2:676:G:H2'	85:2:677:U:H6	1.86	0.41
85:2:713:G:C4	85:2:714:C:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:733:U:C2	85:2:734:C:C5	3.09	0.41
85:2:993:G:C2	85:2:994:A:C6	3.09	0.41
85:2:1007:A:C2	85:2:1008:U:C5	3.09	0.41
85:2:1030:U:H4'	85:2:1031:U:C6	2.56	0.41
85:2:1082:U:HO2'	85:2:1521:A:HO2'	1.61	0.41
85:2:1507:A:P	85:2:1507:A:H8	2.44	0.41
85:2:1509:U:C2	85:2:1532:G:C4	3.09	0.41
85:2:1874:C:H2'	85:2:1875:U:C6	2.56	0.41
85:2:1891:U:H2'	85:2:1892:C:C6	2.56	0.41
4:AD:119:LYS:HG2	4:AD:120:ASP:OD1	2.21	0.41
5:Ad:208:GLY:C	5:Ad:210:LEU:H	2.27	0.41
7:Af:84:LYS:NZ	43:1:2959:A:O2'	2.43	0.41
7:Af:99:LYS:HE3	43:1:2827:G:O3'	2.21	0.41
9:Ai:36:LEU:HD23	9:Ai:39:TYR:HE2	1.85	0.41
10:Aj:55:ALA:HB2	10:Aj:68:GLY:HA2	2.02	0.41
10:Aj:94:HIS:NE2	43:1:1280:G:C8	2.89	0.41
10:Aj:109:GLN:HG3	10:Aj:117:VAL:HG22	2.02	0.41
11:Ak:71:LEU:HD11	11:Ak:103:TYR:HE2	1.85	0.41
12:Al:76:LYS:HZ2	43:1:805:C:H1'	1.85	0.41
12:Al:203:GLU:OE2	12:Al:204:VAL:HG23	2.20	0.41
13:Am:62:LYS:HD2	13:Am:62:LYS:HA	1.93	0.41
14:An:142:ARG:HD3	14:An:142:ARG:HA	1.96	0.41
17:Aq:46:MET:O	17:Aq:49:LEU:HB3	2.20	0.41
18:Ar:122:LYS:C	18:Ar:123:VAL:HG23	2.45	0.41
18:Ar:167:CYS:SG	18:Ar:203:VAL:HG21	2.61	0.41
21:Au:62:ASP:HB2	21:Au:64:GLU:HG2	2.02	0.41
21:Au:151:LYS:HA	21:Au:151:LYS:HD2	1.83	0.41
23:Aw:64:LYS:HD3	23:Aw:64:LYS:HA	1.85	0.41
24:Ax:122:GLU:H	24:Ax:122:GLU:HG2	1.68	0.41
24:Ax:134:ARG:O	24:Ax:137:GLU:HB3	2.20	0.41
27:AB:105:VAL:HG12	27:AB:106:PRO:O	2.21	0.41
27:AB:119:LEU:HD22	27:AB:120:PRO:HD2	2.02	0.41
28:AC:27:ARG:NH1	43:1:2644:A:H61	2.14	0.41
33:AI:150:LEU:HA	33:AI:153:VAL:HG12	2.02	0.41
34:AJ:8:VAL:CG1	34:AJ:43:VAL:HG12	2.51	0.41
34:AJ:10:ILE:O	34:AJ:10:ILE:HG13	2.20	0.41
35:AK:117:GLU:HA	35:AK:120:MET:HB3	2.02	0.41
36:AL:46:ARG:NH1	86:Az:67:ARG:O	2.48	0.41
38:AN:128:ARG:O	38:AN:132:ILE:HG13	2.20	0.41
39:AO:135:LYS:O	39:AO:137:LEU:HG	2.21	0.41
39:AO:165:MET:HE1	39:AO:195:THR:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:AO:263:ASP:O	39:AO:265:THR:N	2.54	0.41
39:AO:300:VAL:HB	43:1:1634:C:OP1	2.21	0.41
39:AO:407:LEU:H	39:AO:407:LEU:HD23	1.86	0.41
39:AO:453:ARG:NH2	39:AO:457:ALA:HB3	2.35	0.41
41:AQ:347:ARG:C	41:AQ:349:GLY:H	2.28	0.41
41:AQ:392:LEU:O	41:AQ:393:ASN:HB2	2.21	0.41
43:1:17:A:C6	43:1:18:A:C5	3.08	0.41
43:1:33:G:O2'	43:1:1370:A:N3	2.46	0.41
43:1:67:G:C2	43:1:73:G:C4	3.08	0.41
43:1:174:G:N2	43:1:191:U:C4	2.89	0.41
43:1:208:A:C5	43:1:563:A:H1'	2.56	0.41
43:1:420:A:C8	43:1:421:C:C4	3.09	0.41
43:1:462:G:OP1	43:1:462:G:H2'	2.20	0.41
43:1:475:A:H2'	43:1:476:U:O4'	2.20	0.41
43:1:528:G:C2	43:1:529:A:N1	2.89	0.41
43:1:601:A:N3	43:1:611:A:C6	2.88	0.41
43:1:620:A:N3	43:1:622:G:H5''	2.36	0.41
43:1:622:G:C5	43:1:649:A:C2	3.08	0.41
43:1:623:A:H5''	43:1:624:A:OP1	2.20	0.41
43:1:703:C:C2	43:1:704:U:C6	3.09	0.41
43:1:713:A:C5	43:1:2329:G:C2	3.09	0.41
43:1:716:U:O2'	43:1:717:U:H5'	2.20	0.41
43:1:720:G:C4	43:1:2341:A:N7	2.89	0.41
43:1:808:A:C4	43:1:809:U:C5	3.09	0.41
43:1:885:G:C6	43:1:886:U:C4	3.09	0.41
43:1:913:U:H2'	43:1:914:G:C8	2.56	0.41
43:1:987:A:C5	43:1:988:U:C4	3.09	0.41
43:1:1006:G:C2	43:1:1007:A:H1'	2.56	0.41
43:1:1103:G:H1	43:1:1111:A:H62	1.64	0.41
43:1:1194:A:H1'	43:1:1196:G:C6	2.55	0.41
43:1:1296:G:H2'	43:1:1297:A:C8	2.55	0.41
43:1:1354:U:H2'	43:1:1355:U:C5	2.56	0.41
43:1:1389:C:C2	43:1:1390:U:C5	3.09	0.41
43:1:1453:C:N3	43:1:1454:C:C5	2.89	0.41
43:1:1500:A:N3	43:1:1932:G:C2	2.89	0.41
43:1:1569:A:C2	43:1:1658:A:N1	2.89	0.41
43:1:1583:C:C2	43:1:1584:C:N4	2.89	0.41
43:1:1673:C:C2	43:1:1674:A:C8	3.09	0.41
43:1:1678:A:C8	43:1:1679:A:H2	2.39	0.41
43:1:1901:C:O2'	43:1:1902:G:P	2.79	0.41
43:1:1901:C:O5'	43:1:1901:C:H6	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1924:G:C4	43:1:1925:G:C8	3.09	0.41
43:1:2024:A:C6	43:1:2032:G:N2	2.88	0.41
43:1:2046:U:C2	43:1:2047:C:C5	3.09	0.41
43:1:2084:G:N1	43:1:2297:C:N3	2.69	0.41
43:1:2114:C:N3	43:1:2115:U:C4	2.89	0.41
43:1:2155:C:C4	43:1:2210:A:C4	3.09	0.41
43:1:2183:U:H3'	43:1:2184:U:H6	1.86	0.41
43:1:2337:C:C2	43:1:2338:G:C8	3.09	0.41
43:1:2401:A:N6	43:1:2402:G:O6	2.54	0.41
43:1:2416:C:H5	43:1:2417:G:C4	2.39	0.41
43:1:2423:G:N3	43:1:2423:G:H2'	2.35	0.41
43:1:2433:U:H5'	43:1:2434:G:OP2	2.21	0.41
43:1:2644:A:C6	43:1:2681:G:N1	2.88	0.41
43:1:2711:G:N1	43:1:2712:G:C5	2.89	0.41
43:1:2741:C:H2'	43:1:2742:G:C8	2.52	0.41
43:1:2765:C:O2'	43:1:2766:A:H5'	2.20	0.41
43:1:2812:U:H3	43:1:2868:G:H1	1.68	0.41
43:1:2915:U:C4	43:1:2916:A:N7	2.89	0.41
43:1:2931:G:H4'	43:1:2932:G:H4'	2.03	0.41
43:1:3031:U:C2	43:1:3032:G:C8	3.09	0.41
43:1:3089:G:C4	43:1:3090:G:C8	3.09	0.41
44:3:6:G:N1	44:3:114:G:C6	2.89	0.41
45:Bb:4:LYS:HB2	85:2:1541:A:OP1	2.21	0.41
45:Bb:20:SER:HA	45:Bb:62:ILE:O	2.20	0.41
45:Bb:333:PHE:N	45:Bb:334:PRO:HD2	2.36	0.41
47:Bh:386:ALA:C	47:Bh:388:GLN:H	2.29	0.41
48:Bi:162:LEU:CB	48:Bi:178:GLN:HG2	2.51	0.41
50:Bm:81:ALA:O	50:Bm:84:GLU:HG3	2.21	0.41
50:Bm:105:ASP:OD1	50:Bm:105:ASP:N	2.54	0.41
51:Br:149:LYS:CD	51:Br:158:ILE:CD1	2.98	0.41
51:Br:203:ARG:HD3	85:2:1671:C:OP1	2.20	0.41
52:Bw:244:ARG:O	52:Bw:247:THR:OG1	2.21	0.41
52:Bw:384:LEU:O	52:Bw:386:THR:HG23	2.21	0.41
52:Bw:385:THR:HA	52:Bw:388:ASN:OD1	2.20	0.41
54:Bz:332:LEU:HD11	54:Bz:371:LEU:HB3	2.03	0.41
60:Ba:25:HIS:CD2	60:Ba:25:HIS:H	2.38	0.41
61:Bc:103:LEU:HA	61:Bc:110:ILE:HG12	2.02	0.41
61:Bc:121:PRO:HA	61:Bc:124:ARG:CB	2.51	0.41
62:Bd:303:LEU:HD12	62:Bd:306:LEU:HB2	2.03	0.41
62:Bd:308:ALA:O	62:Bd:312:LYS:HG2	2.20	0.41
62:Bd:363:ILE:HA	62:Bd:385:VAL:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:Bd:482:TYR:O	62:Bd:482:TYR:CG	2.74	0.41
64:Bg:49:PHE:O	64:Bg:49:PHE:CG	2.73	0.41
66:Bn:323:ASN:OD1	66:Bn:324:MET:HG3	2.20	0.41
66:Bn:371:LYS:NZ	85:2:806:G:OP2	2.52	0.41
67:Bo:78:PHE:CG	67:Bo:85:PRO:HA	2.56	0.41
68:Bp:23:ARG:NH1	68:Bp:36:ARG:HB2	2.35	0.41
68:Bp:62:PRO:O	68:Bp:63:LEU:HD23	2.20	0.41
71:Bu:9:LEU:HD23	71:Bu:9:LEU:O	2.21	0.41
72:Bv:166:LYS:HA	72:Bv:169:ARG:HB2	2.03	0.41
75:BC:106:ARG:HG3	75:BC:108:ASP:OD2	2.20	0.41
76:BD:155:ASP:O	76:BD:158:LYS:HB2	2.20	0.41
76:BD:199:VAL:O	76:BD:204:ARG:NE	2.52	0.41
77:BE:87:SER:OG	77:BE:88:PHE:N	2.53	0.41
77:BE:276:LEU:HB3	77:BE:281:GLU:CD	2.45	0.41
78:BI:195:ALA:CB	78:BI:229:ALA:H	2.24	0.41
85:2:49:U:H3'	85:2:50:A:H8	1.86	0.41
85:2:180:A:C5	85:2:181:G:C8	3.09	0.41
85:2:180:A:H2'	85:2:181:G:O4'	2.21	0.41
85:2:271:U:C2	85:2:272:U:C5	3.09	0.41
85:2:317:U:H2'	85:2:318:U:O4'	2.21	0.41
85:2:421:C:OP2	85:2:421:C:H6	2.03	0.41
85:2:512:G:C4	85:2:534:G:C2	3.09	0.41
85:2:512:G:C5	85:2:513:U:C4	3.09	0.41
85:2:559:G:N7	89:Bk:15:LYS:HA	2.36	0.41
85:2:614:A:C6	85:2:615:A:C6	3.08	0.41
85:2:647:U:O4	85:2:747:G:H2'	2.21	0.41
85:2:666:G:C2	85:2:667:U:C2	3.09	0.41
85:2:713:G:C5	85:2:714:C:C4	3.09	0.41
85:2:837:A:H1'	85:2:840:C:H42	1.86	0.41
85:2:864:U:HO2'	85:2:865:G:P	2.44	0.41
85:2:904:U:H2'	85:2:905:C:C6	2.56	0.41
85:2:940:G:C6	85:2:941:C:C4	3.09	0.41
85:2:968:A:H5''	85:2:1712:A:N6	2.36	0.41
85:2:978:C:N3	85:2:1571:G:C2	2.89	0.41
85:2:1008:U:H2'	85:2:1009:C:C6	2.56	0.41
85:2:1012:U:H2'	85:2:1014:A:OP2	2.20	0.41
85:2:1017:G:H2'	85:2:1018:G:C8	2.54	0.41
85:2:1105:C:N3	85:2:1538:A:C2	2.88	0.41
85:2:1175:A:N6	85:2:1176:G:O6	2.54	0.41
85:2:1385:C:H3'	85:2:1386:G:OP2	2.20	0.41
85:2:1395:C:O2'	85:2:1396:U:C6	2.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1425:U:H1'	85:2:1426:G:C5	2.40	0.41
85:2:1537:G:C2	85:2:1538:A:C4	3.09	0.41
85:2:1600:A:N6	85:2:1636:A:C4	2.88	0.41
85:2:1741:G:O2'	85:2:1742:U:H5'	2.21	0.41
85:2:1832:A:H1'	85:2:1833:A:C8	2.56	0.41
85:2:1907:G:N1	85:2:1921:G:N1	2.69	0.41
85:2:1916:C:C4	85:2:1917:C:N4	2.89	0.41
86:Az:58:ILE:HG23	86:Az:62:ILE:HD12	2.03	0.41
87:Ah:18:LEU:HB3	87:Ah:69:TRP:HE1	1.85	0.41
6:Ae:14:GLN:H	6:Ae:14:GLN:HG3	1.73	0.41
6:Ae:15:ASP:O	6:Ae:19:LYS:HG3	2.21	0.41
6:Ae:49:GLY:C	6:Ae:53:MET:HE3	2.46	0.41
9:Ai:127:CYS:SG	9:Ai:135:ILE:HD12	2.61	0.41
10:Aj:68:GLY:H	10:Aj:135:ARG:HH12	1.68	0.41
11:Ak:137:ASN:O	11:Ak:140:THR:HG22	2.21	0.41
12:Al:95:ARG:HH22	43:1:737:G:N2	2.19	0.41
13:Am:109:TRP:HE1	43:1:1017:G:H4'	1.86	0.41
14:An:21:MET:CE	14:An:37:LYS:HD3	2.51	0.41
15:Ao:39:THR:O	15:Ao:39:THR:HG22	2.21	0.41
15:Ao:51:LYS:HD2	15:Ao:51:LYS:HA	1.83	0.41
18:Ar:153:VAL:HG22	18:Ar:154:SER:O	2.20	0.41
19:As:152:ARG:HH21	19:As:152:ARG:HG3	1.86	0.41
20:At:62:LEU:HD22	43:1:1497:U:H3'	2.03	0.41
23:Aw:107:LEU:HD23	23:Aw:107:LEU:HA	1.85	0.41
30:AF:171:TYR:HE2	33:AI:47:VAL:HG13	1.86	0.41
34:AJ:58:VAL:H	34:AJ:82:ILE:HD12	1.86	0.41
37:AM:100:TRP:CH2	37:AM:104:LYS:HG3	2.56	0.41
39:AO:162:ASN:HB2	43:1:1643:A:N7	2.36	0.41
41:AQ:397:TYR:HD1	41:AQ:397:TYR:HA	1.75	0.41
43:1:206:A:C1'	43:1:218:A:H1'	2.51	0.41
43:1:230:G:C6	43:1:231:C:C4	3.09	0.41
43:1:432:A:C6	43:1:433:A:N6	2.88	0.41
43:1:471:G:C6	43:1:472:U:C2	3.09	0.41
43:1:541:C:H1'	43:1:542:G:N7	2.36	0.41
43:1:629:A:H61	43:1:632:A:P	2.43	0.41
43:1:662:A:H2'	43:1:663:U:H6	1.86	0.41
43:1:687:G:H2'	43:1:688:U:C5	2.56	0.41
43:1:729:G:C6	43:1:1418:A:N6	2.89	0.41
43:1:1001:A:O5'	43:1:1001:A:H8	2.04	0.41
43:1:1168:U:C6	43:1:1169:U:H5	2.38	0.41
43:1:1208:G:C4	43:1:1229:C:C2	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:1:1316:C:C2	43:1:1317:C:C5	3.09	0.41
43:1:1346:G:H2'	43:1:1347:C:C6	2.56	0.41
43:1:1442:A:C6	43:1:1445:C:C2	3.09	0.41
43:1:1442:A:N6	43:1:1486:U:C2	2.89	0.41
43:1:1500:A:N7	43:1:1501:U:C4	2.89	0.41
43:1:1657:A:O2'	43:1:1658:A:OP2	2.38	0.41
43:1:1657:A:C2	43:1:1658:A:C5	3.09	0.41
43:1:1849:A:O2'	43:1:1850:G:O5'	2.31	0.41
43:1:1902:G:C2	43:1:1903:A:C5	3.09	0.41
43:1:2116:G:N1	43:1:2136:A:C8	2.89	0.41
43:1:2309:G:N1	43:1:2310:A:C6	2.89	0.41
43:1:2479:C:H2'	43:1:2480:G:H8	1.85	0.41
43:1:2597:C:C2	43:1:2598:U:H5	2.38	0.41
43:1:2710:A:C6	43:1:2711:G:C4	3.09	0.41
43:1:2841:G:C2	43:1:2842:G:C4	3.09	0.41
43:1:2995:G:N1	43:1:2996:G:C5	2.89	0.41
43:1:3090:G:C2	43:1:3091:U:C4	3.09	0.41
44:3:5:C:C2	44:3:6:G:C8	3.09	0.41
44:3:73:C:H2'	44:3:74:C:H6	1.85	0.41
51:Br:149:LYS:CE	51:Br:158:ILE:HD13	2.48	0.41
52:Bw:162:ILE:C	52:Bw:164:ASP:H	2.28	0.41
60:Ba:159:ILE:HA	60:Ba:176:VAL:HG13	2.03	0.41
61:Bc:335:ASN:CG	61:Bc:336:ILE:N	2.79	0.41
67:Bo:83:LEU:C	72:Bv:80:TYR:HE2	2.29	0.41
72:Bv:174:LEU:HD23	72:Bv:175:TRP:O	2.21	0.41
72:Bv:181:LEU:HD22	72:Bv:184:LYS:HD3	2.03	0.41
76:BD:180:TYR:HB2	76:BD:252:PHE:CZ	2.56	0.41
76:BD:192:LEU:HD23	76:BD:192:LEU:HA	1.88	0.41
77:BE:212:MET:O	77:BE:218:ALA:N	2.41	0.41
77:BE:212:MET:CB	77:BE:217:LEU:HB3	2.51	0.41
85:2:170:C:H2'	85:2:171:G:H8	1.86	0.41
85:2:536:G:H2'	85:2:537:G:H8	1.86	0.41
85:2:1138:G:C6	85:2:1469:C:C5	3.09	0.41
85:2:1537:G:H3'	85:2:1538:A:H8	1.86	0.41
85:2:1764:G:H2'	85:2:1765:G:C8	2.52	0.41
85:2:1791:A:C6	85:2:1792:A:C6	3.09	0.41
85:2:1909:A:C2	85:2:1910:G:C4	3.09	0.41
86:Az:23:LEU:HD23	86:Az:46:CYS:HA	2.02	0.41
86:Az:30:THR:HG23	86:Az:35:ARG:NE	2.36	0.41
1:Aa:83:MET:O	1:Aa:84:ASN:HB3	2.21	0.40
2:Ab:73:ILE:CG1	2:Ab:94:ASN:HB2	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ac:267:GLN:NE2	43:1:2981:A:H1'	2.35	0.40
6:Ae:123:ARG:NH1	6:Ae:170:LEU:HA	2.36	0.40
6:Ae:142:LEU:O	6:Ae:145:HIS:N	2.54	0.40
10:Aj:30:LEU:CD1	10:Aj:69:ASP:HA	2.51	0.40
10:Aj:48:GLN:HE21	43:1:1161:C:H41	1.68	0.40
12:Al:79:THR:O	12:Al:79:THR:OG1	2.38	0.40
12:Al:190:LEU:O	12:Al:210:GLY:HA3	2.21	0.40
17:Aq:79:LEU:HD23	17:Aq:79:LEU:HA	1.94	0.40
19:As:139:LEU:HD21	19:As:150:VAL:HG12	2.01	0.40
21:Au:58:LYS:N	43:1:624:A:H4'	2.36	0.40
22:Av:90:ILE:HD12	22:Av:90:ILE:O	2.21	0.40
23:Aw:114:PHE:CD1	23:Aw:125:ILE:HG12	2.56	0.40
25:Ay:75:LYS:O	25:Ay:79:VAL:HG23	2.20	0.40
25:Ay:130:ASP:CB	43:1:155:U:H5''	2.50	0.40
30:AF:199:ALA:HB3	33:Al:188:PHE:CE1	2.56	0.40
36:AL:39:ASN:HB3	36:AL:43:ARG:HH12	1.86	0.40
39:AO:161:TYR:CD2	39:AO:184:LEU:HD12	2.57	0.40
39:AO:325:TRP:HE1	39:AO:332:TYR:CB	2.34	0.40
39:AO:338:ASN:OD1	39:AO:339:VAL:N	2.54	0.40
40:AP:561:ALA:O	40:AP:565:ALA:HB2	2.21	0.40
41:AQ:427:PRO:HG2	41:AQ:432:TYR:OH	2.21	0.40
41:AQ:470:ASP:HA	41:AQ:473:PHE:CE2	2.56	0.40
43:1:153:U:H6	43:1:153:U:H2'	1.70	0.40
43:1:156:G:O2'	43:1:157:G:H8	2.04	0.40
43:1:253:G:C2	43:1:254:A:C4	3.09	0.40
43:1:720:G:H1'	43:1:1132:A:N6	2.36	0.40
43:1:836:A:N1	43:1:914:G:C6	2.89	0.40
43:1:995:G:N3	43:1:1074:G:C2	2.89	0.40
43:1:1593:G:N1	43:1:1616:G:C6	2.90	0.40
43:1:1671:G:C6	43:1:1672:U:C4	3.10	0.40
43:1:1923:C:C2	43:1:1924:G:C8	3.10	0.40
43:1:1995:G:C2	43:1:1996:U:C4	3.09	0.40
43:1:2063:G:O2'	43:1:2064:A:H8	2.04	0.40
43:1:2094:U:O2'	43:1:2095:U:H5'	2.21	0.40
43:1:2181:U:H2'	43:1:2182:G:C8	2.57	0.40
43:1:2183:U:C4	43:1:2184:U:H1'	2.56	0.40
43:1:2438:G:O2'	43:1:2439:G:O4'	2.35	0.40
43:1:2548:A:C4	43:1:2549:U:C5	3.10	0.40
43:1:2741:C:O2'	43:1:2742:G:H5'	2.21	0.40
44:3:29:A:C4	44:3:30:C:C5	3.09	0.40
44:3:61:A:H4'	44:3:62:A:C5'	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:Bh:414:LYS:NZ	85:2:1717:G:OP2	2.26	0.40
50:Bm:79:LEU:HD13	50:Bm:82:ARG:HD3	2.03	0.40
52:Bw:310:MET:SD	52:Bw:310:MET:N	2.94	0.40
60:Ba:99:ASN:C	60:Ba:100:LEU:HD22	2.45	0.40
64:Bg:40:MET:HE3	64:Bg:128:PHE:HE1	1.85	0.40
75:BC:64:LEU:HG	75:BC:69:LYS:HE2	2.03	0.40
76:BD:158:LYS:NZ	76:BD:161:MET:HB2	2.36	0.40
76:BD:288:HIS:CD2	76:BD:289:TYR:N	2.89	0.40
78:BI:248:ALA:C	78:BI:250:ALA:H	2.29	0.40
79:BJ:151:ALA:HB2	79:BJ:159:ALA:HB3	2.04	0.40
85:2:260:G:H2'	85:2:261:U:H6	1.86	0.40
85:2:305:U:H2'	85:2:306:U:H6	1.85	0.40
85:2:450:A:H2'	85:2:451:A:O4'	2.22	0.40
85:2:463:C:H2'	85:2:464:G:C8	2.57	0.40
85:2:799:A:C5	85:2:800:G:C8	3.08	0.40
85:2:845:C:H2'	85:2:846:A:C8	2.56	0.40
85:2:855:G:H2'	85:2:856:C:H6	1.83	0.40
85:2:1056:G:C2	85:2:1058:C:N4	2.89	0.40
85:2:1406:G:H1'	85:2:1407:G:H5'	2.02	0.40
85:2:1613:G:H2'	85:2:1614:C:O4'	2.21	0.40
85:2:1859:A:C6	85:2:1860:U:C4	3.08	0.40
85:2:1909:A:C6	85:2:1910:G:C5	3.09	0.40
88:BK:165:ALA:HB1	88:BK:196:ALA:HB1	2.02	0.40
89:Bk:93:VAL:O	89:Bk:93:VAL:CG1	2.69	0.40
1:Aa:10:ARG:NH2	43:1:1554:G:N2	2.69	0.40
2:Ab:150:ILE:HG22	2:Ab:151:ARG:O	2.21	0.40
3:Ac:130:LYS:CG	3:Ac:152:ARG:HA	2.50	0.40
5:Ad:242:VAL:CG2	5:Ad:282:MET:HG2	2.51	0.40
10:Aj:53:LEU:HD22	10:Aj:71:CYS:SG	2.61	0.40
10:Aj:147:HIS:O	10:Aj:147:HIS:ND1	2.54	0.40
16:Ap:114:GLN:OE1	43:1:3149:U:O2'	2.22	0.40
17:Aq:14:ARG:NH2	43:1:674:A:O2'	2.54	0.40
17:Aq:16:ARG:HH11	43:1:730:U:C4'	2.33	0.40
18:Ar:117:GLU:OE1	18:Ar:124:MET:N	2.54	0.40
18:Ar:118:GLU:HG3	18:Ar:123:VAL:HG23	1.95	0.40
18:Ar:234:THR:O	18:Ar:234:THR:OG1	2.38	0.40
21:Au:88:ARG:HD3	43:1:435:A:OP1	2.20	0.40
22:Av:53:ARG:NH1	22:Av:141:LEU:HD22	2.36	0.40
22:Av:123:SER:OG	22:Av:124:GLY:N	2.54	0.40
25:Ay:128:GLU:OE1	25:Ay:129:PRO:HD3	2.20	0.40
33:AI:35:ARG:CZ	33:AI:111:LEU:HD13	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AI:168:MET:HE3	33:AI:168:MET:HB3	1.91	0.40
33:AI:223:GLN:NE2	33:AI:223:GLN:H	2.19	0.40
39:AO:87:ASN:H	39:AO:87:ASN:ND2	2.19	0.40
40:AP:671:ALA:HB1	40:AP:704:ALA:CB	2.42	0.40
41:AQ:197:PHE:HD1	41:AQ:200:LYS:HD3	1.87	0.40
41:AQ:462:VAL:C	41:AQ:466:GLU:HG2	2.46	0.40
43:1:65:A:N6	43:1:597:A:H1'	2.34	0.40
43:1:86:U:H6	43:1:86:U:H2'	1.70	0.40
43:1:150:C:O2'	43:1:151:U:OP2	2.31	0.40
43:1:308:C:O2'	43:1:309:C:OP2	2.30	0.40
43:1:636:G:C4	43:1:637:A:C8	3.09	0.40
43:1:763:U:O2'	43:1:765:A:OP2	2.30	0.40
43:1:766:G:C2	43:1:767:G:C5	3.09	0.40
43:1:784:A:C6	43:1:785:G:C4	3.09	0.40
43:1:886:U:N3	43:1:887:A:N7	2.69	0.40
43:1:921:G:C4	43:1:922:G:C8	3.09	0.40
43:1:1008:G:C4	43:1:1009:C:C5	3.09	0.40
43:1:1135:C:H2'	43:1:1136:C:C6	2.55	0.40
43:1:1154:C:C4	43:1:1293:A:C4	3.08	0.40
43:1:1200:A:H2'	43:1:1201:C:C6	2.56	0.40
43:1:1250:U:O2'	43:1:1251:C:H5'	2.21	0.40
43:1:1391:G:N1	43:1:1392:G:N2	2.68	0.40
43:1:1617:A:HO2'	43:1:1618:G:H8	1.68	0.40
43:1:1640:C:H3'	43:1:1641:U:C5'	2.51	0.40
43:1:1916:A:C2	43:1:1917:U:C4	3.10	0.40
43:1:1958:A:C2	43:1:1959:A:C8	3.10	0.40
43:1:2132:A:O4'	43:1:2134:G:C8	2.74	0.40
43:1:2228:U:C4	43:1:2229:A:C5	3.09	0.40
43:1:2357:A:C4	43:1:2358:C:C5	3.10	0.40
43:1:2471:C:N4	43:1:2472:A:C6	2.89	0.40
43:1:2841:G:C2	43:1:3060:A:N7	2.89	0.40
43:1:2925:G:C2	43:1:2926:U:C2	3.09	0.40
43:1:2932:G:N2	43:1:2933:G:C6	2.89	0.40
43:1:3056:G:C2	43:1:3057:G:C4	3.09	0.40
45:Bb:56:ARG:NH2	45:Bb:75:LEU:HD21	2.35	0.40
46:Bf:57:ILE:HG21	46:Bf:92:ILE:HD11	2.03	0.40
47:Bh:343:ASP:C	47:Bh:345:ARG:H	2.28	0.40
48:Bi:167:ARG:CG	50:Bm:145:ILE:HG23	2.45	0.40
50:Bm:91:LYS:HB2	50:Bm:91:LYS:HE2	1.81	0.40
51:Br:136:VAL:HG23	51:Br:140:PRO:HG2	2.03	0.40
51:Br:189:GLU:OE1	51:Br:189:GLU:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:Bw:297:GLU:CG	52:Bw:304:LEU:HD21	2.51	0.40
54:Bz:341:HIS:CE1	54:Bz:344:LYS:H	2.39	0.40
60:Ba:175:PRO:O	60:Ba:177:PRO:HD3	2.21	0.40
60:Ba:186:TYR:H	60:Ba:186:TYR:HD1	1.68	0.40
61:Bc:48:ARG:O	61:Bc:52:ILE:HG13	2.22	0.40
61:Bc:348:LEU:HD23	61:Bc:348:LEU:HA	1.96	0.40
62:Bd:504:LYS:HG3	62:Bd:505:PHE:N	2.31	0.40
65:Bj:221:THR:HB	85:2:684:G:OP1	2.21	0.40
66:Bn:335:SER:O	66:Bn:339:GLU:HG2	2.20	0.40
68:Bp:32:ARG:HD3	68:Bp:32:ARG:HA	1.88	0.40
73:By:60:LEU:HD13	73:By:67:TYR:CD2	2.55	0.40
76:BD:174:PRO:O	76:BD:260:HIS:HB3	2.21	0.40
76:BD:290:GLU:O	76:BD:294:LYS:HG3	2.22	0.40
77:BE:201:ALA:CB	77:BE:320:ILE:HD11	2.50	0.40
77:BE:362:LYS:C	77:BE:364:PHE:H	2.28	0.40
85:2:62:C:OP1	85:2:370:G:N2	2.38	0.40
85:2:130:U:C2	85:2:131:G:N7	2.89	0.40
85:2:168:G:H4'	85:2:219:C:H4'	2.03	0.40
85:2:326:U:C5	85:2:327:C:C5	3.09	0.40
85:2:376:G:N1	85:2:377:U:C4	2.89	0.40
85:2:605:A:C5	85:2:606:A:C8	3.09	0.40
85:2:982:C:H2'	85:2:983:C:H6	1.87	0.40
85:2:1203:U:O2'	85:2:1204:A:P	2.79	0.40
85:2:1595:A:C6	85:2:1596:U:C4	3.09	0.40
85:2:1769:U:H2'	85:2:1770:U:C6	2.57	0.40
85:2:1810:U:H2'	85:2:1811:U:H5	1.81	0.40
88:BK:182:ALA:HB1	88:BK:217:ALA:C	2.47	0.40
6:Ae:34:ILE:HB	6:Ae:97:LEU:HB2	2.04	0.40
6:Ae:110:LEU:HD11	6:Ae:176:PHE:O	2.21	0.40
10:Aj:62:CYS:HB3	10:Aj:65:ARG:NH1	2.36	0.40
10:Aj:71:CYS:O	10:Aj:72:ILE:HD13	2.21	0.40
11:Ak:141:ASP:HB3	11:Ak:142:ARG:CZ	2.51	0.40
12:Al:153:SER:C	12:Al:155:GLU:H	2.28	0.40
12:Al:190:LEU:C	12:Al:191:HIS:CG	2.99	0.40
15:Ao:95:TYR:HE1	15:Ao:100:LYS:HG3	1.86	0.40
16:Ap:119:GLU:O	16:Ap:123:GLU:HG3	2.22	0.40
22:Av:212:LEU:HD12	22:Av:227:ASN:O	2.21	0.40
24:Ax:101:ILE:HG23	24:Ax:106:GLY:C	2.47	0.40
25:Ay:60:TRP:CD1	31:AG:77:VAL:HG13	2.56	0.40
28:AC:18:ALA:HB3	28:AC:50:VAL:CG1	2.51	0.40
32:AH:4:ARG:HD3	32:AH:4:ARG:HA	1.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AH:18:ASN:O	32:AH:27:ARG:NH1	2.55	0.40
34:AJ:64:VAL:HG21	34:AJ:85:LYS:HA	2.03	0.40
39:AO:211:GLY:HA2	39:AO:214:ARG:CZ	2.51	0.40
40:AP:634:ALA:HB1	40:AP:642:ALA:C	2.46	0.40
41:AQ:283:TYR:CD2	41:AQ:313:MET:HG2	2.56	0.40
43:1:51:A:C2	43:1:52:A:C5	3.10	0.40
43:1:119:A:N7	43:1:120:A:C6	2.90	0.40
43:1:221:C:N3	43:1:222:C:C5	2.89	0.40
43:1:614:G:C2	43:1:615:G:N7	2.90	0.40
43:1:629:A:H2'	43:1:631:G:N7	2.37	0.40
43:1:859:A:H5'	43:1:860:A:C8	2.56	0.40
43:1:984:A:H2'	43:1:985:U:O4'	2.21	0.40
43:1:1071:G:C6	43:1:1072:C:C4	3.09	0.40
43:1:1168:U:C5	43:1:1169:U:H5	2.40	0.40
43:1:1660:A:HO2'	43:1:1661:U:H6	1.65	0.40
43:1:1861:U:OP2	43:1:1861:U:H3'	2.21	0.40
43:1:1900:U:H2'	43:1:1901:C:C6	2.57	0.40
43:1:1908:G:N2	43:1:1923:C:C2	2.89	0.40
43:1:1928:A:HO2'	43:1:1929:A:P	2.37	0.40
43:1:2044:U:C2	43:1:2045:C:C5	3.09	0.40
43:1:2208:G:C2	43:1:2209:U:C2	3.09	0.40
43:1:2225:C:C5	85:2:1758:C:H4'	2.55	0.40
43:1:2324:A:C6	43:1:2325:A:C5	3.10	0.40
43:1:2388:A:C4	43:1:2733:A:N7	2.89	0.40
43:1:2713:G:C5	43:1:2714:C:C4	3.09	0.40
43:1:2819:C:H2'	43:1:2820:U:O4'	2.22	0.40
43:1:2983:C:C2	43:1:3026:U:O4	2.75	0.40
44:3:1:A:N3	44:3:1:A:C2'	2.83	0.40
48:Bi:144:ALA:HA	48:Bi:210:LEU:HD11	2.03	0.40
49:Bl:106:ILE:O	49:Bl:110:VAL:HG23	2.21	0.40
51:Br:209:ALA:O	51:Br:210:LYS:HB2	2.21	0.40
52:Bw:145:PHE:HB3	52:Bw:172:PRO:HG2	2.03	0.40
52:Bw:158:LEU:CB	52:Bw:241:PRO:HG3	2.50	0.40
52:Bw:262:ASP:OD1	52:Bw:262:ASP:N	2.54	0.40
52:Bw:323:GLN:HA	52:Bw:326:ILE:HG12	2.02	0.40
52:Bw:409:VAL:HG13	52:Bw:410:GLY:N	2.36	0.40
54:Bz:311:ARG:HH12	54:Bz:355:GLU:HG2	1.83	0.40
61:Bc:37:ILE:HD12	61:Bc:40:ARG:HD2	2.03	0.40
61:Bc:135:ASN:HD21	61:Bc:151:ILE:H	1.68	0.40
62:Bd:429:ILE:HD11	62:Bd:495:VAL:HG21	2.03	0.40
64:Bg:41:LYS:HZ2	64:Bg:48:ASN:CA	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:By:74:TRP:CD1	85:2:233:A:HO2'	2.39	0.40
75:BC:81:PHE:CD1	75:BC:81:PHE:N	2.87	0.40
77:BE:303:LYS:HE3	77:BE:303:LYS:HB3	1.93	0.40
79:BJ:73:ALA:O	79:BJ:102:ALA:HB1	2.21	0.40
85:2:210:G:C6	85:2:211:G:C4	3.09	0.40
85:2:215:A:HO2'	85:2:216:A:C1'	2.29	0.40
85:2:331:C:C2	85:2:332:A:C8	3.08	0.40
85:2:564:G:C2	85:2:565:G:C4	3.10	0.40
85:2:592:G:C2	85:2:636:A:C2	3.09	0.40
85:2:603:G:C5'	85:2:604:A:H5'	2.51	0.40
85:2:605:A:C4	85:2:606:A:C8	3.09	0.40
85:2:648:U:O2'	85:2:649:G:H8	2.05	0.40
85:2:775:G:C6	85:2:776:C:C4	3.10	0.40
85:2:820:G:N1	85:2:871:U:O4	2.54	0.40
85:2:1021:G:C6	85:2:1022:G:C5	3.09	0.40
85:2:1082:U:H2'	85:2:1083:C:C6	2.56	0.40
85:2:1133:C:C4	85:2:1485:G:N1	2.89	0.40
85:2:1134:U:O2'	85:2:1135:A:OP2	2.35	0.40
85:2:1214:G:O2'	85:2:1215:A:C8	2.64	0.40
85:2:1512:C:H2'	85:2:1513:A:H8	1.86	0.40
85:2:1812:C:O2'	85:2:1813:U:H6	2.04	0.40
85:2:1836:G:C2	85:2:1837:C:C2	3.10	0.40
85:2:1875:U:H2'	85:2:1876:U:C6	2.56	0.40
85:2:1909:A:N1	85:2:1910:G:C6	2.89	0.40
88:BK:7:ALA:O	88:BK:10:ALA:HB3	2.21	0.40
88:BK:118:ALA:O	88:BK:120:ALA:N	2.45	0.40
1:Aa:10:ARG:HE	1:Aa:10:ARG:HB2	1.64	0.40
2:Ab:133:SER:O	2:Ab:136:THR:N	2.35	0.40
2:Ab:139:LEU:HB3	2:Ab:144:GLN:CD	2.46	0.40
2:Ab:150:ILE:HG22	2:Ab:151:ARG:N	2.36	0.40
7:Af:25:ARG:NE	7:Af:46:ARG:HA	2.37	0.40
9:Ai:86:TRP:HE1	9:Ai:90:LYS:HE2	1.87	0.40
12:Al:160:LYS:HE2	12:Al:259:PRO:HB2	2.03	0.40
16:Ap:173:ILE:HD13	16:Ap:186:PHE:CE2	2.56	0.40
18:Ar:188:ILE:HG13	86:Az:95:VAL:HG22	2.03	0.40
19:As:165:HIS:CG	19:As:166:GLY:N	2.90	0.40
20:At:15:LEU:HD11	20:At:43:GLU:HG2	2.04	0.40
22:Av:99:LEU:HB3	22:Av:101:PHE:CE1	2.56	0.40
25:Ay:77:TRP:CH2	25:Ay:114:MET:HE2	2.56	0.40
29:AE:37:GLN:HE22	43:1:1180:G:N2	2.20	0.40
33:AI:28:VAL:HG12	33:AI:29:ALA:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AI:29:ALA:O	33:AI:133:GLU:HA	2.22	0.40
33:AI:57:TRP:HE1	44:3:38:C:P	2.44	0.40
34:AJ:22:CYS:SG	34:AJ:54:PRO:HB3	2.62	0.40
36:AL:71:THR:CG2	86:Az:80:ARG:NE	2.84	0.40
39:AO:181:ILE:HG13	39:AO:199:TRP:NE1	2.35	0.40
39:AO:270:LEU:CA	39:AO:273:LEU:HG	2.50	0.40
39:AO:418:SER:O	39:AO:422:GLN:HB2	2.21	0.40
39:AO:420:PHE:O	39:AO:428:GLY:HA3	2.22	0.40
41:AQ:216:LEU:HD12	41:AQ:216:LEU:HA	1.83	0.40
43:1:34:C:H2'	43:1:35:C:C6	2.57	0.40
43:1:590:A:C2	43:1:591:G:C4	3.10	0.40
43:1:943:G:C5	43:1:944:A:C5	3.10	0.40
43:1:956:U:O2'	43:1:957:U:H5'	2.21	0.40
43:1:972:U:O2	43:1:973:C:N4	2.55	0.40
43:1:996:G:H4'	86:Az:56:SER:O	2.22	0.40
43:1:1106:C:C4	43:1:2757:A:H5''	2.56	0.40
43:1:1162:A:C4	43:1:1163:A:C8	3.09	0.40
43:1:1309:G:C6	43:1:1310:A:N7	2.89	0.40
43:1:1318:U:C2	43:1:1319:U:C5	3.09	0.40
43:1:1494:G:N2	43:1:1495:A:C4	2.89	0.40
43:1:1584:C:N3	43:1:1623:G:C6	2.88	0.40
43:1:1653:C:H4'	43:1:1654:U:OP2	2.21	0.40
43:1:1915:G:H5'	43:1:1916:A:C2	2.54	0.40
43:1:2116:G:N1	43:1:2136:A:N7	2.69	0.40
43:1:2144:U:H2'	43:1:2145:G:O4'	2.21	0.40
43:1:2260:C:C4	43:1:2261:A:C5	3.09	0.40
43:1:2419:A:N3	43:1:2419:A:H2'	2.36	0.40
43:1:2834:G:C2	43:1:2835:U:C2	3.10	0.40
43:1:2881:G:N1	43:1:2882:U:O2	2.55	0.40
43:1:2905:G:C6	43:1:2906:G:C2	3.09	0.40
43:1:2940:G:C6	43:1:3070:U:C5	3.09	0.40
43:1:3053:A:N3	43:1:3054:G:C8	2.89	0.40
43:1:3093:U:H5''	43:1:3094:U:OP1	2.21	0.40
43:1:3104:C:O2'	43:1:3105:U:H5'	2.22	0.40
43:1:3120:G:H1'	43:1:3146:A:H61	1.87	0.40
44:3:35:G:C6	44:3:36:A:N6	2.90	0.40
47:Bh:328:PHE:CD2	47:Bh:335:PHE:HB3	2.56	0.40
48:Bi:156:MET:HB2	85:2:1501:C:H5''	2.02	0.40
48:Bi:193:GLN:HA	48:Bi:197:LEU:HD12	2.04	0.40
49:Bl:115:TYR:CD1	51:Br:201:PHE:HB2	2.52	0.40
51:Br:201:PHE:O	51:Br:201:PHE:CD1	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:Bw:208:GLN:HB3	52:Bw:394:MET:SD	2.61	0.40
54:Bz:336:VAL:HG23	54:Bz:337:GLY:H	1.86	0.40
62:Bd:507:ARG:HD3	77:BE:52:ARG:HH11	1.85	0.40
65:Bj:258:VAL:O	65:Bj:258:VAL:HG23	2.21	0.40
66:Bn:401:SER:O	66:Bn:404:LEU:HB3	2.22	0.40
69:Bq:188:THR:OG1	69:Bq:189:GLU:N	2.51	0.40
71:Bu:12:THR:O	71:Bu:16:VAL:HG13	2.22	0.40
72:Bv:93:VAL:HA	72:Bv:96:GLN:HG2	2.04	0.40
76:BD:299:LEU:HA	76:BD:302:GLU:OE2	2.21	0.40
77:BE:161:PHE:C	77:BE:162:ARG:HD3	2.47	0.40
85:2:222:G:C4	85:2:223:A:C8	3.10	0.40
85:2:536:G:C4	85:2:537:G:C8	3.10	0.40
85:2:571:A:O2'	85:2:875:C:O2'	2.37	0.40
85:2:579:U:C2	85:2:580:A:C8	3.09	0.40
85:2:581:G:O6	85:2:754:G:N2	2.55	0.40
85:2:775:G:C5	85:2:776:C:C5	3.10	0.40
85:2:781:G:C2	85:2:782:G:C4	3.09	0.40
85:2:789:A:O2'	85:2:790:U:OP2	2.40	0.40
85:2:1089:C:O2	85:2:1519:A:H2	2.05	0.40
85:2:1144:G:OP2	85:2:1154:C:N4	2.55	0.40
85:2:1437:A:O2'	85:2:1438:G:C4	2.73	0.40
85:2:1450:C:C3'	85:2:1451:G:P	3.08	0.40
85:2:1565:G:C2	85:2:1566:G:C5	3.09	0.40
85:2:1665:G:N1	85:2:1667:A:H5'	2.36	0.40
85:2:1750:G:H2'	85:2:1751:C:O4'	2.21	0.40
85:2:1772:G:C6	85:2:1773:U:C4	3.09	0.40
85:2:1815:U:O2'	85:2:1816:G:C8	2.70	0.40
85:2:1881:U:H2'	85:2:1882:G:C8	2.55	0.40
85:2:1933:U:C4	85:2:1934:C:N4	2.89	0.40
86:Az:33:LEU:HA	86:Az:33:LEU:HD12	1.86	0.40
87:Ah:123:PRO:HA	87:Ah:126:TYR:CD2	2.56	0.40
3:Ac:250:VAL:HG11	3:Ac:265:ARG:CZ	2.51	0.40
10:Aj:48:GLN:HE22	10:Aj:160:PRO:HG2	1.87	0.40
10:Aj:135:ARG:O	10:Aj:138:LYS:N	2.44	0.40
17:Aq:21:ILE:C	17:Aq:23:ILE:N	2.79	0.40
20:At:16:PRO:O	20:At:18:LYS:HG3	2.21	0.40
20:At:37:PRO:HG3	20:At:80:ASP:HB2	2.02	0.40
39:AO:118:GLU:HA	39:AO:121:LYS:HD2	2.04	0.40
39:AO:212:VAL:O	39:AO:216:ILE:HG13	2.21	0.40
39:AO:246:GLN:NE2	39:AO:277:LEU:HB2	2.37	0.40
39:AO:332:TYR:OH	39:AO:364:GLY:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:AQ:251:LEU:HD23	41:AQ:251:LEU:HA	1.75	0.40
43:1:44:G:C6	43:1:45:A:C6	3.09	0.40
43:1:127:C:O2'	43:1:128:C:P	2.79	0.40
43:1:158:A:O2'	43:1:159:C:H6	2.04	0.40
43:1:226:A:N6	43:1:240:A:N7	2.68	0.40
43:1:240:A:H1'	43:1:515:G:C5	2.56	0.40
43:1:432:A:C6	43:1:455:A:C5	3.09	0.40
43:1:465:A:C4	43:1:468:C:C4	3.10	0.40
43:1:567:C:C4	43:1:568:U:C4	3.09	0.40
43:1:608:G:N3	43:1:609:G:C8	2.90	0.40
43:1:609:G:H2'	43:1:609:G:N3	2.37	0.40
43:1:889:G:C2	43:1:897:A:N1	2.90	0.40
43:1:984:A:C6	43:1:985:U:C4	3.09	0.40
43:1:1022:A:N3	43:1:1022:A:H2'	2.36	0.40
43:1:1267:U:C5	43:1:1268:G:C8	3.09	0.40
43:1:1440:A:H2'	43:1:1441:A:O4'	2.22	0.40
43:1:1551:A:C6	43:1:1899:U:O4	2.75	0.40
43:1:1552:G:HO2'	43:1:1553:U:H6	1.68	0.40
43:1:1590:C:O2'	43:1:1591:U:H2'	2.21	0.40
43:1:1921:C:O2'	43:1:1922:C:P	2.80	0.40
43:1:1962:A:C6	43:1:1975:A:N6	2.90	0.40
43:1:2003:A:N6	43:1:2011:A:H61	2.20	0.40
43:1:2019:C:C2	43:1:2040:G:C2	3.10	0.40
43:1:2555:G:C5	43:1:2556:C:C5	3.09	0.40
43:1:3116:G:H2'	43:1:3117:G:O4'	2.22	0.40
45:Bb:4:LYS:H	85:2:1540:G:H2'	1.87	0.40
45:Bb:27:TYR:CE2	54:Bz:305:ALA:HB3	2.56	0.40
45:Bb:516:ASN:C	45:Bb:517:HIS:HD1	2.29	0.40
53:Bx:59:ILE:O	53:Bx:62:GLU:N	2.45	0.40
61:Bc:107:PHE:O	61:Bc:107:PHE:CG	2.74	0.40
62:Bd:488:VAL:O	62:Bd:492:LEU:HG	2.22	0.40
65:Bj:304:ASN:ND2	85:2:669:G:H22	2.20	0.40
66:Bn:355:VAL:O	66:Bn:359:THR:OG1	2.35	0.40
68:Bp:9:VAL:HG11	68:Bp:39:LYS:HE2	2.04	0.40
68:Bp:21:VAL:HB	68:Bp:40:PHE:CE2	2.56	0.40
71:Bu:26:TRP:HZ3	71:Bu:30:MET:HG2	1.86	0.40
72:Bv:185:ILE:O	72:Bv:189:LEU:HD13	2.22	0.40
73:By:79:TYR:HD1	73:By:99:VAL:HA	1.86	0.40
76:BD:248:TYR:CG	76:BD:249:PRO:HD3	2.56	0.40
77:BE:248:SER:O	77:BE:251:GLN:HB2	2.22	0.40
78:BI:260:ALA:HB1	78:BI:265:ALA:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:392:A:N3	85:2:479:A:N6	2.69	0.40
85:2:574:G:H2'	85:2:575:C:H6	1.86	0.40
85:2:579:U:C5	85:2:754:G:C2	3.10	0.40
85:2:917:C:N4	85:2:918:G:O6	2.55	0.40
85:2:998:A:C5	85:2:1028:A:C6	3.09	0.40
85:2:1374:C:HO2'	85:2:1375:G:H8	1.63	0.40
85:2:1448:U:O2'	85:2:1449:A:H8	2.04	0.40
85:2:1694:U:N3	85:2:1726:A:N3	2.69	0.40
85:2:1777:G:C6	85:2:1778:C:C4	3.09	0.40
85:2:1896:A:O2'	85:2:1897:C:H5'	2.21	0.40
85:2:1912:G:H2'	85:2:1913:G:H5'	2.03	0.40
87:Ah:83:LEU:C	87:Ah:83:LEU:HD13	2.46	0.40
89:Bk:121:LYS:HE2	89:Bk:121:LYS:HB3	1.93	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran 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 backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Aa	94/349 (27%)	78 (83%)	14 (15%)	2 (2%)	5	32
2	Ab	153/214 (72%)	129 (84%)	24 (16%)	0	100	100
3	Ac	216/324 (67%)	167 (77%)	49 (23%)	0	100	100
4	AD	58/173 (34%)	49 (84%)	9 (16%)	0	100	100
5	Ad	207/300 (69%)	186 (90%)	21 (10%)	0	100	100
6	Ae	142/185 (77%)	114 (80%)	28 (20%)	0	100	100
7	Af	98/102 (96%)	80 (82%)	18 (18%)	0	100	100
8	Ag	49/221 (22%)	43 (88%)	6 (12%)	0	100	100
9	Ai	136/155 (88%)	120 (88%)	16 (12%)	0	100	100
10	Aj	153/205 (75%)	119 (78%)	34 (22%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
11	Ak	125/173 (72%)	102 (82%)	23 (18%)	0	100	100
12	Al	176/281 (63%)	145 (82%)	31 (18%)	0	100	100
13	Am	140/179 (78%)	122 (87%)	18 (13%)	0	100	100
14	An	139/160 (87%)	114 (82%)	24 (17%)	1 (1%)	18	53
15	Ao	104/114 (91%)	83 (80%)	21 (20%)	0	100	100
16	Ap	112/222 (50%)	91 (81%)	21 (19%)	0	100	100
17	Aq	104/126 (82%)	92 (88%)	12 (12%)	0	100	100
18	Ar	135/270 (50%)	101 (75%)	34 (25%)	0	100	100
19	As	119/269 (44%)	106 (89%)	13 (11%)	0	100	100
20	At	103/178 (58%)	80 (78%)	23 (22%)	0	100	100
21	Au	138/159 (87%)	97 (70%)	39 (28%)	2 (1%)	9	38
22	Av	194/249 (78%)	166 (86%)	28 (14%)	0	100	100
23	Aw	74/154 (48%)	63 (85%)	11 (15%)	0	100	100
24	Ax	97/212 (46%)	85 (88%)	12 (12%)	0	100	100
25	Ay	109/144 (76%)	87 (80%)	22 (20%)	0	100	100
26	AA	35/76 (46%)	27 (77%)	8 (23%)	0	100	100
27	AB	39/134 (29%)	27 (69%)	12 (31%)	0	100	100
28	AC	49/58 (84%)	43 (88%)	6 (12%)	0	100	100
29	AE	34/103 (33%)	29 (85%)	5 (15%)	0	100	100
30	AF	82/250 (33%)	74 (90%)	8 (10%)	0	100	100
31	AG	59/94 (63%)	40 (68%)	18 (30%)	1 (2%)	7	35
32	AH	106/146 (73%)	90 (85%)	16 (15%)	0	100	100
33	AI	205/233 (88%)	161 (78%)	44 (22%)	0	100	100
34	AJ	79/127 (62%)	59 (75%)	20 (25%)	0	100	100
35	AK	85/130 (65%)	74 (87%)	11 (13%)	0	100	100
36	AL	50/81 (62%)	39 (78%)	11 (22%)	0	100	100
37	AM	80/151 (53%)	71 (89%)	9 (11%)	0	100	100
38	AN	78/188 (42%)	70 (90%)	8 (10%)	0	100	100
39	AO	450/491 (92%)	387 (86%)	63 (14%)	0	100	100
40	AP	667/669 (100%)	531 (80%)	133 (20%)	3 (0%)	30	64
41	AQ	364/521 (70%)	312 (86%)	51 (14%)	1 (0%)	36	69

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
42	AR	27/29 (93%)	21 (78%)	6 (22%)	0	100	100
45	Bb	271/556 (49%)	218 (80%)	52 (19%)	1 (0%)	30	64
46	Bf	134/148 (90%)	122 (91%)	12 (9%)	0	100	100
47	Bh	121/430 (28%)	100 (83%)	21 (17%)	0	100	100
48	Bi	99/241 (41%)	76 (77%)	23 (23%)	0	100	100
49	Bl	89/154 (58%)	53 (60%)	35 (39%)	1 (1%)	11	43
50	Bm	94/164 (57%)	63 (67%)	30 (32%)	1 (1%)	11	43
51	Br	81/212 (38%)	64 (79%)	12 (15%)	5 (6%)	1	15
52	Bw	331/480 (69%)	234 (71%)	94 (28%)	3 (1%)	14	47
53	Bx	77/102 (76%)	61 (79%)	16 (21%)	0	100	100
54	Bz	121/419 (29%)	110 (91%)	11 (9%)	0	100	100
55	BA	36/91 (40%)	28 (78%)	8 (22%)	0	100	100
56	Bt	27/98 (28%)	22 (82%)	5 (18%)	0	100	100
57	BG	362/576 (63%)	309 (85%)	46 (13%)	7 (2%)	6	33
58	BP	83/91 (91%)	81 (98%)	2 (2%)	0	100	100
59	BF	121/123 (98%)	98 (81%)	23 (19%)	0	100	100
60	Ba	193/219 (88%)	146 (76%)	47 (24%)	0	100	100
61	Bc	323/362 (89%)	255 (79%)	66 (20%)	2 (1%)	21	55
62	Bd	214/515 (42%)	170 (79%)	44 (21%)	0	100	100
63	Be	97/139 (70%)	72 (74%)	25 (26%)	0	100	100
64	Bg	126/129 (98%)	101 (80%)	25 (20%)	0	100	100
65	Bj	121/314 (38%)	97 (80%)	24 (20%)	0	100	100
66	Bn	98/419 (23%)	86 (88%)	12 (12%)	0	100	100
67	Bo	97/135 (72%)	75 (77%)	22 (23%)	0	100	100
68	Bp	76/116 (66%)	59 (78%)	17 (22%)	0	100	100
69	Bq	60/261 (23%)	51 (85%)	9 (15%)	0	100	100
70	Bs	64/101 (63%)	53 (83%)	11 (17%)	0	100	100
71	Bu	96/195 (49%)	78 (81%)	18 (19%)	0	100	100
72	Bv	147/195 (75%)	119 (81%)	28 (19%)	0	100	100
73	By	74/142 (52%)	62 (84%)	12 (16%)	0	100	100
74	BB	21/137 (15%)	20 (95%)	1 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
75	BC	66/112 (59%)	53 (80%)	13 (20%)	0	100	100
76	BD	208/420 (50%)	164 (79%)	43 (21%)	1 (0%)	24	59
77	BE	346/409 (85%)	277 (80%)	69 (20%)	0	100	100
78	BI	264/266 (99%)	227 (86%)	37 (14%)	0	100	100
79	BJ	347/349 (99%)	301 (87%)	46 (13%)	0	100	100
80	BH	204/390 (52%)	176 (86%)	24 (12%)	4 (2%)	6	33
81	BN	67/69 (97%)	57 (85%)	10 (15%)	0	100	100
82	BM	77/79 (98%)	67 (87%)	10 (13%)	0	100	100
83	BO	28/30 (93%)	28 (100%)	0	0	100	100
84	BL	62/64 (97%)	56 (90%)	6 (10%)	0	100	100
86	Az	80/109 (73%)	73 (91%)	6 (8%)	1 (1%)	9	40
87	Ah	135/171 (79%)	126 (93%)	7 (5%)	2 (2%)	8	37
88	BK	314/316 (99%)	289 (92%)	23 (7%)	2 (1%)	21	55
89	Bk	119/125 (95%)	114 (96%)	4 (3%)	1 (1%)	16	50
All	All	11835/18772 (63%)	9765 (82%)	2029 (17%)	41 (0%)	37	69

All (41) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
57	BG	89	VAL
57	BG	277	SER
57	BG	278	PRO
87	Ah	91	PRO
1	Aa	81	LYS
51	Br	162	ARG
57	BG	18	VAL
88	BK	39	ALA
88	BK	303	ALA
1	Aa	84	ASN
40	AP	604	ALA
50	Bm	84	GLU
57	BG	276	LEU
80	BH	165	PRO
40	AP	376	ALA
40	AP	530	ALA
45	Bb	47	PRO
51	Br	150	LYS

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Mol	Chain	Res	Type
51	Br	176	ILE
57	BG	230	VAL
61	Bc	30	TRP
87	Ah	67	THR
89	Bk	102	LYS
21	Au	117	PRO
51	Br	138	LYS
51	Br	208	HIS
76	BD	345	ARG
31	AG	24	ASP
41	AQ	348	MET
49	Bl	44	PRO
52	Bw	456	GLU
80	BH	61	PRO
80	BH	149	LYS
21	Au	89	PRO
52	Bw	420	PRO
57	BG	174	LYS
86	Az	27	LEU
61	Bc	121	PRO
80	BH	150	PRO
14	An	99	ILE
52	Bw	370	PRO

5.3.2 Protein sidechains ⓘ

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	Aa	82/284 (29%)	81 (99%)	1 (1%)	63	72
2	Ab	121/169 (72%)	121 (100%)	0	100	100
3	Ac	174/267 (65%)	173 (99%)	1 (1%)	78	80
4	AD	54/158 (34%)	54 (100%)	0	100	100
5	Ad	181/260 (70%)	181 (100%)	0	100	100
6	Ae	133/168 (79%)	130 (98%)	3 (2%)	44	64

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	Af	84/86 (98%)	84 (100%)	0	100	100
8	Ag	43/196 (22%)	43 (100%)	0	100	100
9	Ai	116/128 (91%)	116 (100%)	0	100	100
10	Aj	135/170 (79%)	133 (98%)	2 (2%)	57	69
11	Ak	103/138 (75%)	102 (99%)	1 (1%)	68	75
12	Al	147/236 (62%)	147 (100%)	0	100	100
13	Am	111/146 (76%)	109 (98%)	2 (2%)	51	67
14	An	119/137 (87%)	118 (99%)	1 (1%)	73	77
15	Ao	91/98 (93%)	89 (98%)	2 (2%)	45	64
16	Ap	103/199 (52%)	99 (96%)	4 (4%)	28	52
17	Aq	93/110 (84%)	93 (100%)	0	100	100
18	Ar	122/244 (50%)	121 (99%)	1 (1%)	73	77
19	As	98/233 (42%)	98 (100%)	0	100	100
20	At	92/146 (63%)	91 (99%)	1 (1%)	65	73
21	Au	121/132 (92%)	117 (97%)	4 (3%)	33	56
22	Av	175/216 (81%)	172 (98%)	3 (2%)	53	68
23	Aw	64/126 (51%)	62 (97%)	2 (3%)	35	57
24	Ax	83/173 (48%)	81 (98%)	2 (2%)	43	63
25	Ay	105/127 (83%)	105 (100%)	0	100	100
26	AA	28/65 (43%)	28 (100%)	0	100	100
27	AB	36/116 (31%)	36 (100%)	0	100	100
28	AC	46/52 (88%)	46 (100%)	0	100	100
29	AE	35/87 (40%)	35 (100%)	0	100	100
30	AF	70/206 (34%)	69 (99%)	1 (1%)	59	70
31	AG	55/82 (67%)	55 (100%)	0	100	100
32	AH	98/130 (75%)	98 (100%)	0	100	100
33	AI	185/209 (88%)	184 (100%)	1 (0%)	81	82
34	AJ	71/111 (64%)	71 (100%)	0	100	100
35	AK	76/109 (70%)	76 (100%)	0	100	100
36	AL	42/63 (67%)	42 (100%)	0	100	100
37	AM	73/130 (56%)	73 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
38	AN	69/163 (42%)	69 (100%)	0	100	100
39	AO	388/424 (92%)	388 (100%)	0	100	100
41	AQ	311/461 (68%)	311 (100%)	0	100	100
45	Bb	243/495 (49%)	241 (99%)	2 (1%)	73	77
46	Bf	116/125 (93%)	115 (99%)	1 (1%)	70	75
47	Bh	99/360 (28%)	99 (100%)	0	100	100
48	Bi	94/211 (44%)	94 (100%)	0	100	100
49	Bl	78/129 (60%)	78 (100%)	0	100	100
50	Bm	84/144 (58%)	84 (100%)	0	100	100
51	Br	73/180 (41%)	64 (88%)	9 (12%)	4	20
52	Bw	289/404 (72%)	288 (100%)	1 (0%)	86	85
53	Bx	68/85 (80%)	66 (97%)	2 (3%)	37	58
54	Bz	107/368 (29%)	105 (98%)	2 (2%)	50	66
55	BA	35/81 (43%)	35 (100%)	0	100	100
56	Bt	25/81 (31%)	25 (100%)	0	100	100
60	Ba	173/191 (91%)	172 (99%)	1 (1%)	78	80
61	Bc	310/343 (90%)	308 (99%)	2 (1%)	78	80
62	Bd	185/463 (40%)	185 (100%)	0	100	100
63	Be	90/126 (71%)	90 (100%)	0	100	100
64	Bg	112/113 (99%)	110 (98%)	2 (2%)	51	67
65	Bj	103/264 (39%)	102 (99%)	1 (1%)	68	75
66	Bn	94/378 (25%)	94 (100%)	0	100	100
67	Bo	82/113 (73%)	82 (100%)	0	100	100
68	Bp	71/99 (72%)	71 (100%)	0	100	100
69	Bq	51/224 (23%)	50 (98%)	1 (2%)	48	65
70	Bs	61/92 (66%)	61 (100%)	0	100	100
71	Bu	86/170 (51%)	85 (99%)	1 (1%)	63	72
72	Bv	132/173 (76%)	132 (100%)	0	100	100
73	By	61/115 (53%)	61 (100%)	0	100	100
74	BB	22/127 (17%)	22 (100%)	0	100	100
75	BC	58/94 (62%)	57 (98%)	1 (2%)	53	68

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
76	BD	188/368 (51%)	188 (100%)	0	100	100
77	BE	296/351 (84%)	296 (100%)	0	100	100
86	Az	73/96 (76%)	64 (88%)	9 (12%)	4	20
87	Ah	119/144 (83%)	114 (96%)	5 (4%)	26	50
89	Bk	104/108 (96%)	96 (92%)	8 (8%)	12	37
All	All	8115/13570 (60%)	8035 (99%)	80 (1%)	65	75

All (80) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	Aa	86	ILE
3	Ac	106	ASP
6	Ae	5	ASN
6	Ae	167	ASP
6	Ae	170	LEU
10	Aj	90	PHE
10	Aj	106	LEU
11	Ak	54	LEU
13	Am	118	ILE
13	Am	135	THR
14	An	140	ARG
15	Ao	26	THR
15	Ao	96	HIS
16	Ap	130	ILE
16	Ap	160	ILE
16	Ap	177	VAL
16	Ap	180	VAL
18	Ar	244	ILE
20	At	35	THR
21	Au	38	VAL
21	Au	85	VAL
21	Au	94	VAL
21	Au	121	ILE
22	Av	93	ILE
22	Av	150	ASP
22	Av	235	ILE
23	Aw	94	ASP
23	Aw	103	THR
24	Ax	68	ARG
24	Ax	135	TYR

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Mol	Chain	Res	Type
30	AF	152	GLU
33	AI	71	ASP
45	Bb	483	GLU
45	Bb	507	HIS
46	Bf	28	VAL
51	Br	159	TRP
51	Br	160	SER
51	Br	163	SER
51	Br	165	ILE
51	Br	172	SER
51	Br	176	ILE
51	Br	195	LYS
51	Br	202	THR
51	Br	208	HIS
52	Bw	343	LEU
53	Bx	36	ARG
53	Bx	37	SER
54	Bz	297	ILE
54	Bz	298	VAL
60	Ba	66	ASN
61	Bc	129	HIS
61	Bc	347	ASP
64	Bg	24	VAL
64	Bg	103	ILE
65	Bj	263	ASN
69	Bq	199	THR
71	Bu	25	VAL
75	BC	42	ILE
86	Az	18	SER
86	Az	21	ILE
86	Az	22	THR
86	Az	33	LEU
86	Az	37	THR
86	Az	44	ARG
86	Az	75	GLU
86	Az	77	TYR
86	Az	98	HIS
87	Ah	47	ASN
87	Ah	52	LEU
87	Ah	67	THR
87	Ah	91	PRO
87	Ah	129	ILE

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Mol	Chain	Res	Type
89	Bk	30	LYS
89	Bk	40	ARG
89	Bk	52	ILE
89	Bk	55	VAL
89	Bk	61	HIS
89	Bk	98	ILE
89	Bk	120	GLU
89	Bk	121	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (167) such sidechains are listed below:

Mol	Chain	Res	Type
1	Aa	64	ASN
1	Aa	84	ASN
3	Ac	134	HIS
3	Ac	175	HIS
3	Ac	194	GLN
3	Ac	209	HIS
3	Ac	267	GLN
5	Ad	154	GLN
5	Ad	162	HIS
5	Ad	184	HIS
5	Ad	225	ASN
5	Ad	231	ASN
5	Ad	235	ASN
5	Ad	259	HIS
5	Ad	270	ASN
5	Ad	277	HIS
6	Ae	24	ASN
6	Ae	48	ASN
6	Ae	151	HIS
7	Af	35	HIS
7	Af	67	GLN
9	Ai	55	GLN
9	Ai	103	HIS
9	Ai	128	GLN
9	Ai	144	ASN
9	Ai	152	GLN
10	Aj	26	ASN
10	Aj	48	GLN
10	Aj	54	GLN
11	Ak	126	ASN

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Mol	Chain	Res	Type
11	Ak	171	HIS
12	Al	248	GLN
13	Am	145	GLN
14	An	82	HIS
15	Ao	36	HIS
15	Ao	88	GLN
16	Ap	148	ASN
17	Aq	60	GLN
17	Aq	61	HIS
17	Aq	64	ASN
17	Aq	67	ASN
18	Ar	149	HIS
18	Ar	170	ASN
18	Ar	222	ASN
19	As	163	HIS
19	As	191	HIS
20	At	11	HIS
22	Av	37	GLN
22	Av	110	GLN
22	Av	132	HIS
24	Ax	65	ASN
24	Ax	74	ASN
24	Ax	96	HIS
25	Ay	48	GLN
25	Ay	85	ASN
25	Ay	90	GLN
25	Ay	103	ASN
26	AA	37	HIS
26	AA	59	ASN
26	AA	61	GLN
27	AB	91	HIS
29	AE	35	GLN
29	AE	37	GLN
32	AH	8	GLN
33	AI	59	GLN
33	AI	159	HIS
33	AI	223	GLN
34	AJ	30	ASN
36	AL	39	ASN
36	AL	70	ASN
37	AM	93	HIS
38	AN	177	GLN

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Mol	Chain	Res	Type
39	AO	52	HIS
39	AO	87	ASN
39	AO	153	ASN
39	AO	162	ASN
39	AO	246	GLN
39	AO	261	GLN
39	AO	299	ASN
39	AO	304	ASN
39	AO	307	GLN
39	AO	313	ASN
41	AQ	130	ASN
41	AQ	193	GLN
41	AQ	226	HIS
41	AQ	354	GLN
41	AQ	423	ASN
45	Bb	6	ASN
45	Bb	15	ASN
45	Bb	507	HIS
46	Bf	120	GLN
46	Bf	139	ASN
47	Bh	380	GLN
47	Bh	388	GLN
47	Bh	426	GLN
48	Bi	178	GLN
49	Bl	36	ASN
49	Bl	71	ASN
49	Bl	107	GLN
50	Bm	125	ASN
52	Bw	136	HIS
52	Bw	186	ASN
52	Bw	248	HIS
52	Bw	255	ASN
52	Bw	266	GLN
52	Bw	269	ASN
52	Bw	330	HIS
52	Bw	334	ASN
52	Bw	405	HIS
52	Bw	445	GLN
52	Bw	457	ASN
54	Bz	294	GLN
54	Bz	356	HIS
54	Bz	360	ASN

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Mol	Chain	Res	Type
55	BA	57	GLN
60	Ba	25	HIS
60	Ba	26	HIS
60	Ba	88	GLN
60	Ba	93	ASN
60	Ba	95	ASN
61	Bc	31	ASN
61	Bc	47	ASN
61	Bc	122	GLN
61	Bc	148	HIS
61	Bc	185	HIS
61	Bc	186	GLN
61	Bc	200	HIS
61	Bc	219	GLN
61	Bc	255	ASN
61	Bc	284	ASN
61	Bc	338	HIS
62	Bd	351	GLN
62	Bd	361	HIS
62	Bd	470	ASN
62	Bd	502	GLN
63	Be	59	HIS
63	Be	66	GLN
63	Be	80	HIS
64	Bg	15	ASN
64	Bg	69	ASN
64	Bg	123	GLN
65	Bj	304	ASN
66	Bn	357	GLN
66	Bn	364	HIS
67	Bo	33	HIS
68	Bp	14	GLN
68	Bp	26	HIS
69	Bq	174	ASN
69	Bq	198	GLN
70	Bs	48	GLN
70	Bs	62	HIS
72	Bv	86	HIS
72	Bv	137	GLN
72	Bv	171	GLN
73	By	62	ASN
73	By	68	HIS

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Mol	Chain	Res	Type
73	By	92	HIS
75	BC	56	HIS
76	BD	147	ASN
77	BE	133	GLN
77	BE	180	HIS
77	BE	251	GLN
77	BE	265	HIS
86	Az	34	HIS
87	Ah	28	ASN
89	Bk	10	HIS
89	Bk	96	HIS

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
43	1	2836/2842 (99%)	1125 (39%)	66 (2%)
44	3	118/118 (100%)	49 (41%)	7 (5%)
85	2	1737/1743 (99%)	762 (43%)	65 (3%)
All	All	4691/4703 (99%)	1936 (41%)	138 (2%)

All (1936) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
43	1	17	A
43	1	27	A
43	1	37	G
43	1	38	G
43	1	45	A
43	1	47	A
43	1	49	G
43	1	50	G
43	1	51	A
43	1	54	G
43	1	62	C
43	1	64	G
43	1	65	A
43	1	67	G
43	1	70	A
43	1	71	A
43	1	73	G
43	1	74	G

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Mol	Chain	Res	Type
43	1	75	C
43	1	79	G
43	1	82	G
43	1	84	G
43	1	86	U
43	1	87	A
43	1	88	C
43	1	89	C
43	1	90	G
43	1	91	U
43	1	94	G
43	1	95	U
43	1	96	G
43	1	99	C
43	1	113	U
43	1	114	C
43	1	118	A
43	1	119	A
43	1	121	C
43	1	122	C
43	1	123	G
43	1	124	U
43	1	125	A
43	1	126	U
43	1	127	C
43	1	128	C
43	1	129	A
43	1	130	A
43	1	131	G
43	1	132	C
43	1	133	U
43	1	134	C
43	1	135	C
43	1	136	G
43	1	137	U
43	1	138	G
43	1	139	G
43	1	140	C
43	1	141	U
43	1	142	A
43	1	144	U
43	1	145	C

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Mol	Chain	Res	Type
43	1	146	U
43	1	147	G
43	1	148	C
43	1	149	G
43	1	150	C
43	1	151	U
43	1	152	C
43	1	153	U
43	1	154	U
43	1	155	U
43	1	156	G
43	1	157	G
43	1	158	A
43	1	161	U
43	1	163	G
43	1	165	A
43	1	166	A
43	1	170	U
43	1	171	A
43	1	181	A
43	1	182	A
43	1	184	A
43	1	186	C
43	1	189	A
43	1	201	A
43	1	203	G
43	1	206	A
43	1	207	A
43	1	208	A
43	1	213	C
43	1	214	C
43	1	215	G
43	1	220	C
43	1	226	A
43	1	230	G
43	1	233	G
43	1	234	C
43	1	235	G
43	1	249	U
43	1	250	U
43	1	251	G
43	1	255	U

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Mol	Chain	Res	Type
43	1	256	U
43	1	258	U
43	1	260	A
43	1	261	G
43	1	262	A
43	1	264	A
43	1	265	A
43	1	267	G
43	1	268	A
43	1	269	A
43	1	270	A
43	1	271	G
43	1	272	A
43	1	273	C
43	1	274	G
43	1	275	A
43	1	276	A
43	1	296	A
43	1	297	C
43	1	298	U
43	1	299	U
43	1	300	C
43	1	301	U
43	1	302	U
43	1	303	U
43	1	304	U
43	1	305	U
43	1	306	C
43	1	307	G
43	1	308	C
43	1	309	C
43	1	311	G
43	1	312	G
43	1	313	U
43	1	314	U
43	1	315	U
43	1	421	C
43	1	422	U
43	1	424	U
43	1	425	A
43	1	426	A
43	1	428	U

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Mol	Chain	Res	Type
43	1	429	G
43	1	431	G
43	1	433	A
43	1	435	A
43	1	436	G
43	1	440	G
43	1	444	G
43	1	453	A
43	1	456	G
43	1	462	G
43	1	463	A
43	1	464	U
43	1	466	G
43	1	468	C
43	1	477	U
43	1	478	C
43	1	479	G
43	1	480	U
43	1	481	U
43	1	482	C
43	1	483	C
43	1	484	U
43	1	486	U
43	1	487	G
43	1	488	G
43	1	489	U
43	1	490	U
43	1	491	C
43	1	492	G
43	1	494	U
43	1	495	C
43	1	496	C
43	1	498	U
43	1	499	C
43	1	500	C
43	1	501	C
43	1	503	G
43	1	504	U
43	1	505	A
43	1	506	A
43	1	514	C
43	1	515	G

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Mol	Chain	Res	Type
43	1	516	U
43	1	517	G
43	1	518	U
43	1	519	U
43	1	520	C
43	1	521	G
43	1	522	A
43	1	525	U
43	1	526	C
43	1	528	G
43	1	535	U
43	1	536	U
43	1	539	C
43	1	540	G
43	1	541	C
43	1	542	G
43	1	543	A
43	1	544	G
43	1	545	A
43	1	546	A
43	1	547	A
43	1	550	G
43	1	552	G
43	1	553	A
43	1	557	C
43	1	565	G
43	1	566	C
43	1	572	U
43	1	577	C
43	1	585	C
43	1	590	A
43	1	592	C
43	1	597	A
43	1	598	A
43	1	599	G
43	1	608	G
43	1	610	G
43	1	611	A
43	1	614	G
43	1	619	A
43	1	621	A
43	1	622	G

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Mol	Chain	Res	Type
43	1	623	A
43	1	626	C
43	1	629	A
43	1	630	U
43	1	633	C
43	1	634	G
43	1	642	A
43	1	643	A
43	1	644	U
43	1	645	A
43	1	646	G
43	1	647	A
43	1	649	A
43	1	650	A
43	1	651	C
43	1	655	A
43	1	661	G
43	1	670	A
43	1	671	A
43	1	672	U
43	1	673	C
43	1	674	A
43	1	675	G
43	1	678	G
43	1	682	G
43	1	685	U
43	1	686	A
43	1	687	G
43	1	688	U
43	1	689	C
43	1	690	A
43	1	691	A
43	1	692	G
43	1	693	C
43	1	694	G
43	1	695	C
43	1	696	A
43	1	697	C
43	1	699	C
43	1	700	A
43	1	701	C
43	1	705	A

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Mol	Chain	Res	Type
43	1	711	G
43	1	712	U
43	1	713	A
43	1	715	C
43	1	719	U
43	1	720	G
43	1	722	A
43	1	723	U
43	1	725	A
43	1	736	A
43	1	737	G
43	1	738	G
43	1	739	A
43	1	745	G
43	1	748	G
43	1	753	G
43	1	755	U
43	1	756	U
43	1	758	A
43	1	762	A
43	1	765	A
43	1	766	G
43	1	767	G
43	1	771	A
43	1	777	U
43	1	778	U
43	1	779	U
43	1	780	C
43	1	784	A
43	1	788	G
43	1	789	G
43	1	790	A
43	1	791	A
43	1	793	C
43	1	794	U
43	1	795	U
43	1	797	U
43	1	798	A
43	1	799	G
43	1	802	C
43	1	808	A
43	1	817	G

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Mol	Chain	Res	Type
43	1	818	A
43	1	825	U
43	1	828	A
43	1	829	U
43	1	838	G
43	1	845	U
43	1	853	A
43	1	854	G
43	1	855	C
43	1	856	U
43	1	857	C
43	1	859	A
43	1	860	A
43	1	861	C
43	1	870	G
43	1	873	G
43	1	874	A
43	1	891	G
43	1	897	A
43	1	908	A
43	1	909	C
43	1	919	G
43	1	920	G
43	1	921	G
43	1	926	A
43	1	927	A
43	1	928	G
43	1	929	G
43	1	933	A
43	1	935	C
43	1	936	A
43	1	947	U
43	1	948	A
43	1	949	G
43	1	950	C
43	1	955	U
43	1	956	U
43	1	971	U
43	1	972	U
43	1	974	A
43	1	975	G
43	1	988	U

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Mol	Chain	Res	Type
43	1	989	G
43	1	990	U
43	1	994	U
43	1	999	C
43	1	1002	G
43	1	1003	G
43	1	1010	A
43	1	1012	U
43	1	1013	C
43	1	1020	C
43	1	1022	A
43	1	1023	G
43	1	1027	G
43	1	1043	A
43	1	1044	C
43	1	1046	A
43	1	1052	A
43	1	1054	G
43	1	1056	A
43	1	1057	A
43	1	1061	C
43	1	1066	U
43	1	1073	C
43	1	1074	G
43	1	1079	C
43	1	1086	A
43	1	1088	A
43	1	1092	A
43	1	1093	G
43	1	1095	C
43	1	1097	U
43	1	1098	U
43	1	1099	U
43	1	1100	G
43	1	1101	G
43	1	1105	G
43	1	1106	C
43	1	1108	A
43	1	1109	A
43	1	1110	G
43	1	1113	C
43	1	1116	A

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Mol	Chain	Res	Type
43	1	1123	G
43	1	1125	G
43	1	1126	G
43	1	1130	A
43	1	1132	A
43	1	1134	C
43	1	1138	G
43	1	1139	A
43	1	1140	U
43	1	1144	A
43	1	1145	C
43	1	1147	C
43	1	1154	C
43	1	1155	C
43	1	1156	C
43	1	1158	A
43	1	1159	A
43	1	1160	G
43	1	1161	C
43	1	1162	A
43	1	1166	A
43	1	1171	G
43	1	1172	U
43	1	1173	G
43	1	1174	G
43	1	1175	A
43	1	1176	A
43	1	1178	A
43	1	1182	A
43	1	1183	G
43	1	1189	G
43	1	1194	A
43	1	1195	U
43	1	1196	G
43	1	1197	A
43	1	1198	C
43	1	1201	C
43	1	1203	A
43	1	1204	G
43	1	1206	A
43	1	1208	G
43	1	1211	G

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Mol	Chain	Res	Type
43	1	1213	C
43	1	1216	G
43	1	1217	G
43	1	1218	A
43	1	1219	A
43	1	1220	G
43	1	1222	A
43	1	1224	C
43	1	1232	U
43	1	1234	A
43	1	1235	A
43	1	1237	A
43	1	1238	A
43	1	1239	A
43	1	1242	G
43	1	1245	A
43	1	1246	U
43	1	1249	C
43	1	1252	A
43	1	1253	C
43	1	1255	G
43	1	1259	U
43	1	1261	G
43	1	1262	C
43	1	1265	C
43	1	1268	G
43	1	1275	A
43	1	1277	A
43	1	1278	A
43	1	1281	U
43	1	1282	A
43	1	1284	C
43	1	1285	A
43	1	1288	G
43	1	1290	U
43	1	1292	A
43	1	1300	C
43	1	1301	A
43	1	1305	A
43	1	1306	A
43	1	1309	G
43	1	1311	C

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Mol	Chain	Res	Type
43	1	1314	G
43	1	1318	U
43	1	1319	U
43	1	1320	G
43	1	1322	A
43	1	1324	G
43	1	1326	U
43	1	1327	G
43	1	1328	C
43	1	1330	U
43	1	1331	U
43	1	1332	U
43	1	1333	U
43	1	1336	A
43	1	1337	G
43	1	1338	U
43	1	1339	G
43	1	1342	A
43	1	1343	G
43	1	1345	A
43	1	1359	U
43	1	1361	A
43	1	1368	G
43	1	1375	U
43	1	1381	G
43	1	1392	G
43	1	1393	A
43	1	1394	G
43	1	1397	A
43	1	1403	A
43	1	1407	A
43	1	1408	G
43	1	1409	A
43	1	1411	U
43	1	1412	G
43	1	1419	U
43	1	1420	G
43	1	1421	A
43	1	1427	G
43	1	1428	A
43	1	1429	U
43	1	1452	G

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Mol	Chain	Res	Type
43	1	1456	G
43	1	1457	C
43	1	1458	C
43	1	1459	A
43	1	1463	G
43	1	1466	G
43	1	1467	G
43	1	1469	U
43	1	1483	C
43	1	1484	A
43	1	1485	A
43	1	1486	U
43	1	1487	C
43	1	1498	G
43	1	1500	A
43	1	1504	G
43	1	1508	C
43	1	1509	U
43	1	1514	A
43	1	1521	G
43	1	1522	A
43	1	1524	A
43	1	1529	U
43	1	1530	G
43	1	1531	C
43	1	1532	C
43	1	1533	G
43	1	1537	G
43	1	1538	A
43	1	1540	G
43	1	1542	G
43	1	1543	U
43	1	1544	A
43	1	1545	C
43	1	1546	A
43	1	1547	C
43	1	1548	G
43	1	1549	A
43	1	1550	A
43	1	1552	G
43	1	1555	A
43	1	1556	C

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Mol	Chain	Res	Type
43	1	1560	G
43	1	1563	G
43	1	1564	C
43	1	1565	U
43	1	1566	U
43	1	1569	A
43	1	1570	C
43	1	1571	U
43	1	1572	A
43	1	1574	A
43	1	1575	A
43	1	1576	A
43	1	1578	C
43	1	1579	C
43	1	1580	A
43	1	1581	U
43	1	1582	G
43	1	1583	C
43	1	1584	C
43	1	1585	U
43	1	1586	C
43	1	1587	U
43	1	1588	C
43	1	1589	U
43	1	1590	C
43	1	1591	U
43	1	1594	G
43	1	1595	A
43	1	1596	G
43	1	1597	C
43	1	1598	G
43	1	1599	A
43	1	1600	A
43	1	1601	U
43	1	1603	G
43	1	1604	G
43	1	1605	A
43	1	1606	U
43	1	1607	G
43	1	1608	A
43	1	1609	U
43	1	1611	G

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Mol	Chain	Res	Type
43	1	1612	G
43	1	1613	G
43	1	1614	C
43	1	1615	C
43	1	1616	G
43	1	1618	G
43	1	1619	G
43	1	1620	G
43	1	1621	C
43	1	1622	A
43	1	1623	G
43	1	1624	C
43	1	1625	G
43	1	1626	U
43	1	1627	A
43	1	1628	G
43	1	1629	C
43	1	1630	G
43	1	1631	C
43	1	1632	C
43	1	1633	U
43	1	1634	C
43	1	1635	U
43	1	1636	U
43	1	1637	C
43	1	1638	C
43	1	1639	C
43	1	1640	C
43	1	1641	U
43	1	1642	C
43	1	1643	A
43	1	1644	C
43	1	1645	U
43	1	1646	C
43	1	1647	U
43	1	1648	C
43	1	1649	C
43	1	1650	U
43	1	1651	U
43	1	1652	U
43	1	1653	C
43	1	1654	U

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Mol	Chain	Res	Type
43	1	1655	C
43	1	1656	C
43	1	1658	A
43	1	1659	U
43	1	1660	A
43	1	1661	U
43	1	1662	G
43	1	1663	A
43	1	1664	A
43	1	1665	C
43	1	1666	C
43	1	1667	U
43	1	1668	U
43	1	1669	G
43	1	1670	A
43	1	1671	G
43	1	1672	U
43	1	1673	C
43	1	1674	A
43	1	1675	U
43	1	1676	C
43	1	1678	A
43	1	1679	A
43	1	1836	C
43	1	1837	G
43	1	1838	A
43	1	1839	G
43	1	1840	U
43	1	1841	C
43	1	1842	U
43	1	1843	G
43	1	1844	U
43	1	1845	U
43	1	1846	U
43	1	1847	A
43	1	1849	A
43	1	1850	G
43	1	1851	U
43	1	1852	C
43	1	1853	G
43	1	1854	C
43	1	1855	G

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Mol	Chain	Res	Type
43	1	1856	A
43	1	1857	C
43	1	1858	U
43	1	1859	C
43	1	1860	U
43	1	1861	U
43	1	1862	G
43	1	1863	U
43	1	1864	C
43	1	1865	A
43	1	1866	U
43	1	1867	A
43	1	1868	G
43	1	1869	U
43	1	1870	C
43	1	1872	A
43	1	1873	G
43	1	1874	A
43	1	1875	A
43	1	1876	G
43	1	1877	G
43	1	1878	U
43	1	1880	G
43	1	1881	A
43	1	1882	A
43	1	1883	A
43	1	1887	C
43	1	1889	A
43	1	1892	A
43	1	1896	A
43	1	1897	A
43	1	1898	C
43	1	1899	U
43	1	1900	U
43	1	1901	C
43	1	1902	G
43	1	1903	A
43	1	1904	A
43	1	1905	U
43	1	1906	U
43	1	1907	G
43	1	1908	G

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Mol	Chain	Res	Type
43	1	1909	G
43	1	1910	A
43	1	1911	G
43	1	1912	G
43	1	1913	G
43	1	1914	C
43	1	1915	G
43	1	1916	A
43	1	1917	U
43	1	1918	C
43	1	1920	U
43	1	1921	C
43	1	1922	C
43	1	1923	C
43	1	1924	G
43	1	1925	G
43	1	1926	U
43	1	1927	G
43	1	1929	A
43	1	1930	C
43	1	1934	C
43	1	1942	C
43	1	1943	A
43	1	1945	A
43	1	1951	A
43	1	1953	A
43	1	1958	A
43	1	1969	U
43	1	1972	A
43	1	1973	C
43	1	1974	U
43	1	1981	C
43	1	1982	U
43	1	1983	U
43	1	1999	A
43	1	2007	C
43	1	2009	G
43	1	2033	A
43	1	2034	G
43	1	2036	A
43	1	2046	U
43	1	2047	C

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Mol	Chain	Res	Type
43	1	2048	C
43	1	2049	U
43	1	2050	A
43	1	2051	U
43	1	2052	C
43	1	2053	U
43	1	2054	U
43	1	2055	U
43	1	2057	G
43	1	2058	A
43	1	2060	U
43	1	2061	A
43	1	2062	G
43	1	2063	G
43	1	2065	A
43	1	2066	A
43	1	2067	G
43	1	2068	C
43	1	2073	C
43	1	2075	U
43	1	2077	C
43	1	2079	A
43	1	2080	G
43	1	2081	G
43	1	2090	A
43	1	2097	A
43	1	2098	U
43	1	2099	U
43	1	2102	A
43	1	2108	A
43	1	2109	G
43	1	2117	C
43	1	2118	U
43	1	2119	A
43	1	2124	G
43	1	2125	U
43	1	2133	U
43	1	2145	G
43	1	2146	A
43	1	2147	C
43	1	2150	C
43	1	2151	U

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Mol	Chain	Res	Type
43	1	2159	G
43	1	2169	C
43	1	2173	A
43	1	2174	G
43	1	2175	G
43	1	2176	A
43	1	2183	U
43	1	2184	U
43	1	2185	A
43	1	2186	U
43	1	2187	A
43	1	2194	G
43	1	2195	A
43	1	2196	A
43	1	2207	G
43	1	2210	A
43	1	2217	G
43	1	2220	A
43	1	2221	G
43	1	2224	A
43	1	2225	C
43	1	2226	U
43	1	2228	U
43	1	2232	U
43	1	2234	U
43	1	2238	A
43	1	2240	G
43	1	2241	G
43	1	2249	A
43	1	2252	C
43	1	2253	C
43	1	2254	U
43	1	2266	U
43	1	2274	U
43	1	2275	G
43	1	2276	C
43	1	2277	A
43	1	2278	C
43	1	2281	A
43	1	2282	U
43	1	2283	G
43	1	2294	U

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Mol	Chain	Res	Type
43	1	2303	G
43	1	2307	C
43	1	2308	C
43	1	2312	A
43	1	2313	U
43	1	2324	A
43	1	2326	A
43	1	2329	G
43	1	2331	A
43	1	2334	C
43	1	2341	A
43	1	2342	A
43	1	2343	G
43	1	2344	A
43	1	2347	C
43	1	2350	A
43	1	2354	C
43	1	2366	C
43	1	2367	G
43	1	2370	A
43	1	2371	A
43	1	2372	G
43	1	2373	A
43	1	2380	G
43	1	2404	G
43	1	2405	A
43	1	2408	A
43	1	2411	U
43	1	2413	G
43	1	2414	A
43	1	2416	C
43	1	2422	U
43	1	2423	G
43	1	2424	U
43	1	2425	A
43	1	2426	G
43	1	2427	G
43	1	2428	A
43	1	2429	U
43	1	2430	A
43	1	2431	G
43	1	2432	G

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Mol	Chain	Res	Type
43	1	2433	U
43	1	2436	G
43	1	2437	A
43	1	2438	G
43	1	2439	G
43	1	2441	C
43	1	2442	G
43	1	2443	U
43	1	2444	G
43	1	2445	A
43	1	2446	C
43	1	2447	A
43	1	2448	U
43	1	2454	G
43	1	2455	A
43	1	2456	C
43	1	2457	C
43	1	2459	A
43	1	2460	U
43	1	2461	C
43	1	2463	U
43	1	2466	A
43	1	2467	A
43	1	2468	G
43	1	2469	A
43	1	2470	C
43	1	2472	A
43	1	2473	C
43	1	2474	U
43	1	2476	U
43	1	2477	U
43	1	2478	U
43	1	2481	U
43	1	2483	U
43	1	2486	G
43	1	2487	G
43	1	2488	G
43	1	2489	U
43	1	2494	A
43	1	2495	A
43	1	2496	C
43	1	2499	C

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Mol	Chain	Res	Type
43	1	2522	G
43	1	2525	G
43	1	2527	A
43	1	2528	C
43	1	2540	G
43	1	2541	G
43	1	2545	U
43	1	2552	G
43	1	2553	G
43	1	2554	G
43	1	2581	G
43	1	2585	U
43	1	2589	A
43	1	2590	A
43	1	2599	C
43	1	2608	A
43	1	2609	U
43	1	2610	U
43	1	2614	C
43	1	2617	G
43	1	2623	G
43	1	2625	A
43	1	2632	U
43	1	2633	A
43	1	2634	A
43	1	2641	C
43	1	2643	G
43	1	2644	A
43	1	2645	C
43	1	2649	G
43	1	2653	C
43	1	2655	G
43	1	2656	A
43	1	2659	G
43	1	2660	G
43	1	2668	G
43	1	2670	G
43	1	2674	A
43	1	2675	A
43	1	2681	G
43	1	2683	C
43	1	2688	U

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Mol	Chain	Res	Type
43	1	2689	G
43	1	2700	C
43	1	2701	C
43	1	2702	C
43	1	2704	U
43	1	2705	G
43	1	2708	G
43	1	2714	C
43	1	2718	C
43	1	2720	C
43	1	2722	C
43	1	2723	A
43	1	2726	G
43	1	2729	U
43	1	2730	C
43	1	2733	A
43	1	2739	G
43	1	2743	G
43	1	2745	G
43	1	2746	A
43	1	2756	G
43	1	2757	A
43	1	2767	A
43	1	2772	U
43	1	2774	U
43	1	2776	A
43	1	2778	C
43	1	2780	A
43	1	2783	G
43	1	2785	G
43	1	2789	U
43	1	2790	U
43	1	2792	G
43	1	2800	G
43	1	2801	A
43	1	2802	U
43	1	2803	G
43	1	2805	C
43	1	2816	A
43	1	2818	C
43	1	2822	G
43	1	2823	G

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Mol	Chain	Res	Type
43	1	2827	G
43	1	2828	A
43	1	2832	A
43	1	2833	G
43	1	2843	G
43	1	2844	U
43	1	2846	C
43	1	2847	G
43	1	2852	U
43	1	2864	A
43	1	2865	G
43	1	2870	A
43	1	2871	C
43	1	2874	G
43	1	2876	G
43	1	2883	U
43	1	2884	U
43	1	2894	U
43	1	2900	A
43	1	2901	G
43	1	2906	G
43	1	2907	U
43	1	2911	U
43	1	2918	C
43	1	2919	G
43	1	2927	U
43	1	2928	A
43	1	2929	A
43	1	2930	A
43	1	2931	G
43	1	2932	G
43	1	2934	A
43	1	2936	A
43	1	2940	G
43	1	2947	G
43	1	2948	C
43	1	2958	U
43	1	2965	G
43	1	2970	G
43	1	2976	G
43	1	2979	C
43	1	2983	C

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Mol	Chain	Res	Type
43	1	2984	U
43	1	2985	A
43	1	2987	G
43	1	2991	U
43	1	2992	A
43	1	3014	G
43	1	3015	C
43	1	3016	G
43	1	3019	G
43	1	3022	C
43	1	3026	U
43	1	3028	A
43	1	3031	U
43	1	3032	G
43	1	3035	A
43	1	3041	G
43	1	3043	A
43	1	3046	G
43	1	3048	U
43	1	3050	C
43	1	3051	U
43	1	3052	U
43	1	3060	A
43	1	3061	A
43	1	3072	U
43	1	3073	A
43	1	3083	G
43	1	3084	G
43	1	3085	A
43	1	3087	C
43	1	3094	U
43	1	3095	A
43	1	3096	G
43	1	3101	G
43	1	3105	U
43	1	3107	C
43	1	3108	G
43	1	3109	A
43	1	3110	U
43	1	3115	G
43	1	3117	G
43	1	3123	G

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Mol	Chain	Res	Type
43	1	3131	G
43	1	3135	G
43	1	3141	A
43	1	3142	A
43	1	3143	G
43	1	3147	U
43	1	3149	U
43	1	3150	C
43	1	3151	G
43	1	3153	A
43	1	3154	C
43	1	3158[A]	A
43	1	3159[A]	C
43	1	3160[A]	G
43	1	3161[A]	A
44	3	2	A
44	3	3	A
44	3	13	A
44	3	15	G
44	3	18	G
44	3	22	C
44	3	23	G
44	3	25	G
44	3	26	A
44	3	27	A
44	3	34	C
44	3	40	C
44	3	43	U
44	3	44	C
44	3	45	C
44	3	46	G
44	3	47	A
44	3	49	C
44	3	55	A
44	3	56	U
44	3	57	G
44	3	59	G
44	3	60	G
44	3	61	A
44	3	62	A
44	3	65	G
44	3	66	U

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Mol	Chain	Res	Type
44	3	67	C
44	3	69	U
44	3	70	G
44	3	72	G
44	3	76	U
44	3	79	G
44	3	80	U
44	3	85	A
44	3	86	G
44	3	87	A
44	3	90	G
44	3	91	U
44	3	92	U
44	3	94	G
44	3	97	A
44	3	106	C
44	3	107	C
44	3	108	A
44	3	109	A
44	3	116	U
44	3	117	G
44	3	118	A
85	2	6	A
85	2	7	G
85	2	8	U
85	2	9	C
85	2	10	A
85	2	11	A
85	2	12	A
85	2	13	A
85	2	14	G
85	2	15	A
85	2	16	A
85	2	17	G
85	2	22	U
85	2	30	G
85	2	34	A
85	2	40	A
85	2	46	A
85	2	49	U
85	2	55	C
85	2	56	U

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Mol	Chain	Res	Type
85	2	58	A
85	2	59	A
85	2	60	C
85	2	68	A
85	2	75	C
85	2	77	U
85	2	78	U
85	2	79	G
85	2	80	U
85	2	81	U
85	2	82	C
85	2	83	U
85	2	84	C
85	2	85	G
85	2	89	A
85	2	90	G
85	2	91	C
85	2	92	U
85	2	93	A
85	2	94	G
85	2	95	G
85	2	96	C
85	2	97	A
85	2	98	G
85	2	112	U
85	2	113	C
85	2	114	C
85	2	115	U
85	2	116	A
85	2	117	G
85	2	118	C
85	2	119	U
85	2	120	C
85	2	129	U
85	2	130	U
85	2	131	G
85	2	132	U
85	2	133	C
85	2	134	U
85	2	135	C
85	2	136	G
85	2	148	G

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Mol	Chain	Res	Type
85	2	149	G
85	2	150	A
85	2	151	A
85	2	152	G
85	2	153	A
85	2	154	G
85	2	155	U
85	2	156	U
85	2	157	G
85	2	158	A
85	2	159	G
85	2	161	A
85	2	162	C
85	2	163	A
85	2	164	A
85	2	165	A
85	2	167	U
85	2	176	G
85	2	181	G
85	2	184	A
85	2	185	G
85	2	186	G
85	2	194	A
85	2	195	U
85	2	198	G
85	2	205	A
85	2	206	G
85	2	208	U
85	2	210	G
85	2	212	G
85	2	214	C
85	2	215	A
85	2	218	U
85	2	219	C
85	2	224	A
85	2	225	G
85	2	226	A
85	2	227	A
85	2	228	A
85	2	231	U
85	2	232	A
85	2	233	A

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Mol	Chain	Res	Type
85	2	234	A
85	2	235	A
85	2	236	A
85	2	237	G
85	2	238	C
85	2	245	U
85	2	264	U
85	2	266	G
85	2	270	G
85	2	273	G
85	2	276	U
85	2	277	A
85	2	278	G
85	2	280	U
85	2	281	A
85	2	282	A
85	2	285	G
85	2	286	C
85	2	287	U
85	2	288	G
85	2	298	A
85	2	299	U
85	2	300	G
85	2	302	U
85	2	303	G
85	2	308	G
85	2	313	U
85	2	325	A
85	2	339	G
85	2	340	A
85	2	346	A
85	2	347	C
85	2	351	G
85	2	359	U
85	2	360	C
85	2	361	C
85	2	363	A
85	2	364	C
85	2	365	G
85	2	366	G
85	2	370	G
85	2	371	C

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Mol	Chain	Res	Type
85	2	372	A
85	2	373	G
85	2	375	A
85	2	379	G
85	2	380	G
85	2	385	C
85	2	386	U
85	2	388	G
85	2	391	C
85	2	392	A
85	2	394	U
85	2	399	G
85	2	401	A
85	2	403	G
85	2	404	C
85	2	405	C
85	2	407	A
85	2	413	C
85	2	415	A
85	2	416	U
85	2	419	C
85	2	421	C
85	2	423	U
85	2	424	G
85	2	426	G
85	2	429	A
85	2	430	A
85	2	432	A
85	2	436	G
85	2	439	A
85	2	440	U
85	2	441	G
85	2	442	C
85	2	443	C
85	2	444	G
85	2	449	U
85	2	450	A
85	2	453	G
85	2	457	U
85	2	459	U
85	2	468	G
85	2	471	C

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Mol	Chain	Res	Type
85	2	473	A
85	2	475	C
85	2	478	G
85	2	479	A
85	2	481	A
85	2	483	G
85	2	488	G
85	2	489	A
85	2	490	G
85	2	494	G
85	2	497	G
85	2	506	A
85	2	508	C
85	2	510	C
85	2	514	G
85	2	515	C
85	2	516	C
85	2	518	G
85	2	519	C
85	2	521	G
85	2	524	G
85	2	525	C
85	2	528	U
85	2	529	A
85	2	530	A
85	2	542	C
85	2	544	A
85	2	546	U
85	2	556	A
85	2	557	A
85	2	560	A
85	2	561	C
85	2	563	G
85	2	564	G
85	2	565	G
85	2	569	A
85	2	570	A
85	2	572	G
85	2	574	G
85	2	575	C
85	2	576	A
85	2	578	G

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Mol	Chain	Res	Type
85	2	580	A
85	2	585	G
85	2	608	U
85	2	614	A
85	2	615	A
85	2	616	A
85	2	617	A
85	2	618	G
85	2	628	G
85	2	634	G
85	2	648	U
85	2	659	G
85	2	660	A
85	2	661	G
85	2	667	U
85	2	682	A
85	2	687	U
85	2	694	U
85	2	697	A
85	2	698	G
85	2	703	A
85	2	706	A
85	2	708	G
85	2	710	A
85	2	718	A
85	2	723	A
85	2	726	G
85	2	728	A
85	2	731	U
85	2	742	C
85	2	743	U
85	2	750	G
85	2	755	G
85	2	756	G
85	2	758	U
85	2	762	A
85	2	774	A
85	2	778	A
85	2	784	A
85	2	790	U
85	2	791	A
85	2	793	C

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Mol	Chain	Res	Type
85	2	805	U
85	2	806	G
85	2	808	C
85	2	810	U
85	2	811	A
85	2	814	C
85	2	815	G
85	2	816	A
85	2	826	G
85	2	829	C
85	2	831	U
85	2	838	C
85	2	839	G
85	2	840	C
85	2	841	A
85	2	844	U
85	2	847	G
85	2	850	G
85	2	853	C
85	2	854	A
85	2	863	G
85	2	864	U
85	2	865	G
85	2	869	A
85	2	878	G
85	2	882	A
85	2	889	U
85	2	893	A
85	2	895	G
85	2	898	C
85	2	903	C
85	2	907	A
85	2	909	G
85	2	919	G
85	2	920	G
85	2	921	G
85	2	922	G
85	2	923	C
85	2	924	C
85	2	926	G
85	2	927	C
85	2	928	A

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Mol	Chain	Res	Type
85	2	931	A
85	2	941	C
85	2	947	G
85	2	948	U
85	2	949	U
85	2	952	A
85	2	953	U
85	2	957	A
85	2	960	C
85	2	962	A
85	2	964	G
85	2	967	C
85	2	968	A
85	2	969	A
85	2	970	A
85	2	974	U
85	2	980	G
85	2	982	C
85	2	983	C
85	2	985	U
85	2	986	G
85	2	992	U
85	2	993	G
85	2	994	A
85	2	997	A
85	2	998	A
85	2	999	C
85	2	1001	A
85	2	1003	A
85	2	1004	C
85	2	1006	U
85	2	1007	A
85	2	1012	U
85	2	1015	C
85	2	1016	G
85	2	1019	A
85	2	1020	U
85	2	1021	G
85	2	1026	U
85	2	1028	A
85	2	1029	C
85	2	1030	U

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Mol	Chain	Res	Type
85	2	1031	U
85	2	1036	A
85	2	1037	C
85	2	1044	U
85	2	1045	G
85	2	1046	C
85	2	1057	U
85	2	1059	A
85	2	1061	C
85	2	1062	U
85	2	1067	U
85	2	1070	U
85	2	1078	U
85	2	1079	U
85	2	1080	G
85	2	1084	A
85	2	1085	A
85	2	1086	G
85	2	1087	U
85	2	1093	A
85	2	1094	A
85	2	1095	C
85	2	1096	G
85	2	1097	A
85	2	1098	G
85	2	1102	A
85	2	1110	U
85	2	1117	U
85	2	1118	U
85	2	1122	C
85	2	1123	A
85	2	1124	G
85	2	1127	A
85	2	1128	U
85	2	1129	G
85	2	1130	C
85	2	1131	G
85	2	1132	C
85	2	1133	C
85	2	1134	U
85	2	1135	A
85	2	1136	A

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Mol	Chain	Res	Type
85	2	1137	G
85	2	1138	G
85	2	1139	A
85	2	1141	A
85	2	1143	A
85	2	1144	G
85	2	1145	G
85	2	1146	C
85	2	1147	U
85	2	1148	U
85	2	1149	G
85	2	1151	A
85	2	1152	A
85	2	1153	A
85	2	1154	C
85	2	1155	C
85	2	1156	G
85	2	1157	A
85	2	1159	G
85	2	1160	U
85	2	1161	G
85	2	1162	A
85	2	1163	G
85	2	1164	C
85	2	1165	C
85	2	1166	A
85	2	1167	A
85	2	1168	G
85	2	1169	G
85	2	1170	A
85	2	1171	G
85	2	1172	C
85	2	1173	C
85	2	1174	G
85	2	1175	A
85	2	1176	G
85	2	1177	U
85	2	1178	G
85	2	1179	A
85	2	1180	U
85	2	1181	G
85	2	1182	U

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Mol	Chain	Res	Type
85	2	1183	G
85	2	1184	C
85	2	1185	C
85	2	1186	A
85	2	1188	A
85	2	1189	C
85	2	1190	C
85	2	1191	U
85	2	1192	A
85	2	1193	G
85	2	1203	U
85	2	1204	A
85	2	1205	G
85	2	1206	G
85	2	1207	C
85	2	1208	C
85	2	1209	A
85	2	1210	A
85	2	1211	C
85	2	1212	U
85	2	1213	C
85	2	1214	G
85	2	1215	A
85	2	1216	C
85	2	1217	G
85	2	1218	U
85	2	1219	C
85	2	1220	G
85	2	1369	G
85	2	1370	A
85	2	1371	C
85	2	1372	G
85	2	1373	U
85	2	1374	C
85	2	1375	G
85	2	1376	A
85	2	1377	G
85	2	1378	U
85	2	1379	U
85	2	1380	G
85	2	1381	G
85	2	1382	C

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Mol	Chain	Res	Type
85	2	1384	G
85	2	1385	C
85	2	1386	G
85	2	1387	G
85	2	1388	A
85	2	1389	G
85	2	1390	A
85	2	1391	A
85	2	1392	A
85	2	1393	G
85	2	1394	A
85	2	1395	C
85	2	1396	U
85	2	1397	C
85	2	1398	G
85	2	1399	G
85	2	1400	C
85	2	1401	A
85	2	1402	U
85	2	1403	U
85	2	1404	C
85	2	1405	A
85	2	1406	G
85	2	1407	G
85	2	1408	C
85	2	1409	G
85	2	1410	A
85	2	1411	G
85	2	1412	C
85	2	1413	C
85	2	1414	G
85	2	1415	C
85	2	1416	C
85	2	1417	C
85	2	1418	G
85	2	1419	G
85	2	1420	U
85	2	1421	G
85	2	1422	G
85	2	1423	U
85	2	1424	G
85	2	1425	U

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Mol	Chain	Res	Type
85	2	1426	G
85	2	1427	G
85	2	1428	G
85	2	1429	A
85	2	1430	C
85	2	1431	G
85	2	1432	A
85	2	1433	A
85	2	1434	G
85	2	1435	U
85	2	1436	A
85	2	1437	A
85	2	1438	G
85	2	1439	U
85	2	1440	G
85	2	1443	U
85	2	1444	U
85	2	1445	U
85	2	1446	A
85	2	1447	G
85	2	1448	U
85	2	1449	A
85	2	1450	C
85	2	1451	G
85	2	1452	C
85	2	1453	C
85	2	1454	C
85	2	1455	U
85	2	1456	G
85	2	1457	C
85	2	1458	C
85	2	1459	A
85	2	1460	A
85	2	1461	A
85	2	1462	A
85	2	1463	C
85	2	1464	G
85	2	1465	G
85	2	1467	U
85	2	1468	C
85	2	1469	C
85	2	1470	G

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Mol	Chain	Res	Type
85	2	1471	A
85	2	1474	C
85	2	1475	A
85	2	1477	A
85	2	1478	C
85	2	1479	A
85	2	1480	A
85	2	1483	A
85	2	1485	G
85	2	1494	G
85	2	1495	C
85	2	1496	A
85	2	1499	C
85	2	1500	A
85	2	1501	C
85	2	1509	U
85	2	1514	G
85	2	1517	A
85	2	1518	U
85	2	1519	A
85	2	1520	U
85	2	1521	A
85	2	1524	G
85	2	1529	A
85	2	1537	G
85	2	1543	G
85	2	1546	A
85	2	1547	A
85	2	1550	C
85	2	1551	C
85	2	1552	G
85	2	1555	U
85	2	1559	C
85	2	1560	C
85	2	1562	U
85	2	1563	A
85	2	1577	A
85	2	1578	C
85	2	1579	A
85	2	1583	G
85	2	1586	A
85	2	1587	C

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Mol	Chain	Res	Type
85	2	1588	A
85	2	1590	U
85	2	1591	G
85	2	1592	G
85	2	1596	U
85	2	1597	U
85	2	1602	U
85	2	1603	G
85	2	1607	A
85	2	1610	A
85	2	1623	G
85	2	1624	G
85	2	1628	G
85	2	1630	A
85	2	1631	U
85	2	1632	C
85	2	1633	C
85	2	1634	G
85	2	1635	G
85	2	1636	A
85	2	1638	A
85	2	1642	U
85	2	1647	C
85	2	1648	A
85	2	1649	G
85	2	1650	U
85	2	1654	G
85	2	1655	A
85	2	1658	G
85	2	1659	U
85	2	1660	U
85	2	1661	C
85	2	1665	G
85	2	1666	C
85	2	1667	A
85	2	1668	A
85	2	1670	U
85	2	1671	C
85	2	1672	G
85	2	1673	G
85	2	1684	U
85	2	1687	G

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Mol	Chain	Res	Type
85	2	1689	A
85	2	1695	A
85	2	1696	G
85	2	1702	G
85	2	1705	G
85	2	1712	A
85	2	1713	U
85	2	1722	G
85	2	1723	A
85	2	1726	A
85	2	1727	U
85	2	1728	G
85	2	1737	C
85	2	1738	C
85	2	1739	C
85	2	1749	C
85	2	1750	G
85	2	1751	C
85	2	1767	A
85	2	1768	A
85	2	1771	G
85	2	1773	U
85	2	1778	C
85	2	1786	A
85	2	1787	U
85	2	1788	C
85	2	1789	G
85	2	1790	G
85	2	1791	A
85	2	1792	A
85	2	1793	C
85	2	1794	A
85	2	1795	A
85	2	1796	U
85	2	1797	G
85	2	1798	A
85	2	1799	U
85	2	1800	C
85	2	1801	A
85	2	1802	C
85	2	1803	C
85	2	1804	C

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Mol	Chain	Res	Type
85	2	1805	A
85	2	1806	U
85	2	1807	G
85	2	1809	C
85	2	1811	U
85	2	1812	C
85	2	1813	U
85	2	1814	G
85	2	1815	U
85	2	1817	U
85	2	1818	A
85	2	1819	A
85	2	1820	C
85	2	1821	A
85	2	1822	C
85	2	1824	A
85	2	1825	G
85	2	1827	G
85	2	1828	C
85	2	1829	C
85	2	1830	A
85	2	1832	A
85	2	1833	A
85	2	1834	A
85	2	1835	G
85	2	1836	G
85	2	1837	C
85	2	1839	U
85	2	1841	U
85	2	1842	G
85	2	1843	G
85	2	1844	U
85	2	1845	G
85	2	1846	G
85	2	1847	U
85	2	1849	U
85	2	1850	U
85	2	1851	A
85	2	1853	U
85	2	1854	G
85	2	1855	G
85	2	1856	C

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Mol	Chain	Res	Type
85	2	1858	C
85	2	1859	A
85	2	1860	U
85	2	1861	A
85	2	1864	A
85	2	1873	U
85	2	1874	C
85	2	1888	A
85	2	1889	A
85	2	1890	G
85	2	1893	G
85	2	1895	A
85	2	1898	A
85	2	1899	A
85	2	1902	U
85	2	1905	C
85	2	1910	G
85	2	1913	G
85	2	1914	A
85	2	1921	G
85	2	1925	G
85	2	1926	G
85	2	1927	A
85	2	1929	U
85	2	1930	G
85	2	1931	A
85	2	1933	U
85	2	1934	C

All (138) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
43	1	16	G
43	1	49	G
43	1	118	A
43	1	130	A
43	1	140	C
43	1	249	U
43	1	295	C
43	1	297	C
43	1	427	U
43	1	428	U

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Mol	Chain	Res	Type
43	1	476	U
43	1	487	G
43	1	497	U
43	1	618	A
43	1	620	A
43	1	633	C
43	1	643	A
43	1	645	A
43	1	671	A
43	1	687	G
43	1	766	G
43	1	778	U
43	1	856	U
43	1	928	G
43	1	1091	C
43	1	1317	C
43	1	1323	A
43	1	1332	U
43	1	1396	U
43	1	1419	U
43	1	1532	C
43	1	1543	U
43	1	1555	A
43	1	1618	G
43	1	1621	C
43	1	1628	G
43	1	1641	U
43	1	1647	U
43	1	1665	C
43	1	1842	U
43	1	1851	U
43	1	1861	U
43	1	1910	A
43	1	1913	G
43	1	1915	G
43	1	1916	A
43	1	1928	A
43	1	2050	A
43	1	2051	U
43	1	2057	G
43	1	2186	U
43	1	2413	G

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Mol	Chain	Res	Type
43	1	2436	G
43	1	2438	G
43	1	2454	G
43	1	2466	A
43	1	2487	G
43	1	2498	G
43	1	2598	U
43	1	2928	A
43	1	2931	G
43	1	2991	U
43	1	3014	G
43	1	3049	G
43	1	3050	C
43	1	3095	A
44	3	1	A
44	3	2	A
44	3	12	U
44	3	25	G
44	3	60	G
44	3	61	A
44	3	64	C
85	2	6	A
85	2	83	U
85	2	84	C
85	2	225	G
85	2	231	U
85	2	232	A
85	2	233	A
85	2	235	A
85	2	285	G
85	2	415	A
85	2	449	U
85	2	458	U
85	2	472	G
85	2	477	U
85	2	496	A
85	2	564	G
85	2	615	A
85	2	839	G
85	2	853	C
85	2	920	G
85	2	921	G

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Mol	Chain	Res	Type
85	2	922	G
85	2	923	C
85	2	948	U
85	2	997	A
85	2	1117	U
85	2	1154	C
85	2	1163	G
85	2	1164	C
85	2	1165	C
85	2	1166	A
85	2	1169	G
85	2	1202	C
85	2	1203	U
85	2	1206	G
85	2	1385	C
85	2	1402	U
85	2	1403	U
85	2	1404	C
85	2	1408	C
85	2	1425	U
85	2	1428	G
85	2	1459	A
85	2	1461	A
85	2	1464	G
85	2	1478	C
85	2	1484	G
85	2	1494	G
85	2	1495	C
85	2	1551	C
85	2	1629	A
85	2	1634	G
85	2	1667	A
85	2	1670	U
85	2	1738	C
85	2	1792	A
85	2	1795	A
85	2	1796	U
85	2	1797	G
85	2	1798	A
85	2	1799	U
85	2	1814	G
85	2	1849	U

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Mol	Chain	Res	Type
85	2	1863	C
85	2	1929	U

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
85	2	39
43	1	5
58	BP	3
45	Bb	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	2	120:C	O3'	128:C	P	28.73
1	BP	204:ALA	C	205:ALA	N	21.29
1	2	1193:G	O3'	1202:C	P	17.46
1	2	1220:G	O3'	1368:C	P	17.36
1	2	98:G	O3'	111:C	P	17.08
1	2	85:G	O3'	88:G	P	13.31
1	1	2502:C	O3'	2521:G	P	12.95

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	2	136:G	O3'	147:G	P	11.30
1	BP	182:ALA	C	184:ALA	N	10.41
1	1	1028:G	O3'	1040:C	P	10.02
1	Bb	389:LEU	C	393:ILE	N	7.49
1	1	315:U	O3'	420:A	P	7.35
1	BP	229:ALA	C	233:ALA	N	6.94
1	1	277:G	O3'	295:C	P	5.91
1	1	1680:G	O3'	1835:G	P	5.74
1	2	1181:G	O3'	1182:U	P	3.49
1	2	1441:G	O3'	1442:G	P	2.51
1	2	1425:U	O3'	1426:G	P	2.36
1	2	1423:U	O3'	1424:G	P	2.20
1	2	1450:C	O3'	1451:G	P	2.17
1	2	1451:G	O3'	1452:C	P	2.03
1	2	1390:A	O3'	1391:A	P	1.99
1	2	1169:G	O3'	1170:A	P	1.86
1	2	1202:C	O3'	1203:U	P	1.83
1	2	1187:G	O3'	1188:A	P	1.82
1	2	1437:A	O3'	1438:G	P	1.81
1	2	1170:A	O3'	1171:G	P	1.78
1	2	1165:C	O3'	1166:A	P	1.77
1	2	1378:U	O3'	1379:U	P	1.39
1	2	1191:U	O3'	1192:A	P	1.38
1	2	1408:C	O3'	1409:G	P	1.37
1	2	1430:C	O3'	1431:G	P	1.37
1	2	1431:G	O3'	1432:A	P	1.36
1	2	1207:C	O3'	1208:C	P	1.35
1	2	1438:G	O3'	1439:U	P	1.34
1	2	1406:G	O3'	1407:G	P	1.30
1	2	1206:G	O3'	1207:C	P	1.28
1	2	1381:G	O3'	1382:C	P	1.28
1	2	1179:A	O3'	1180:U	P	1.27
1	2	1167:A	O3'	1168:G	P	1.24
1	2	1166:A	O3'	1167:A	P	1.21
1	2	1404:C	O3'	1405:A	P	1.21
1	2	1445:U	O3'	1446:A	P	1.19
1	2	1428:G	O3'	1429:A	P	1.16
1	2	1379:U	O3'	1380:G	P	1.08
1	2	1385:C	O3'	1386:G	P	1.07
1	2	1402:U	O3'	1403:U	P	1.04
1	2	1391:A	O3'	1392:A	P	0.95

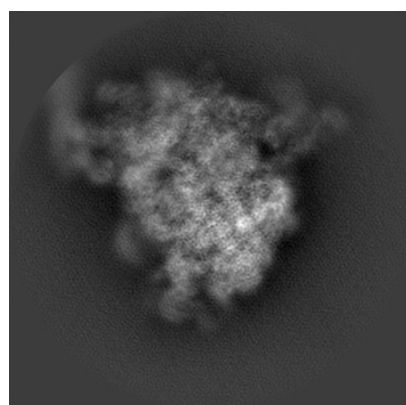
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-10654. These allow visual inspection of the internal detail of the map and identification of artifacts.

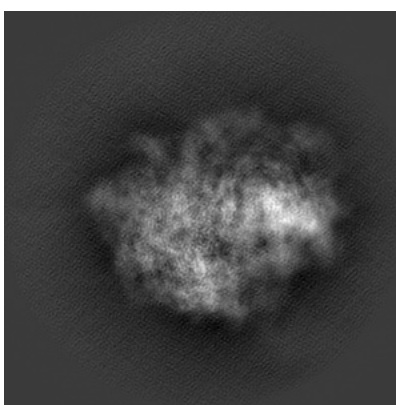
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

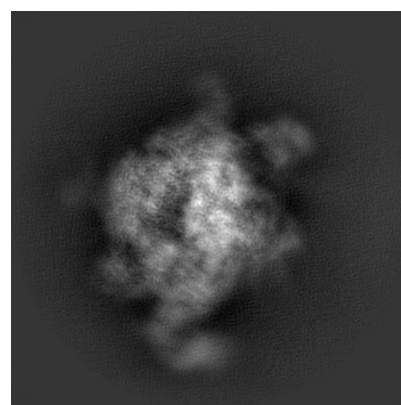
6.1.1 Primary map



X



Y

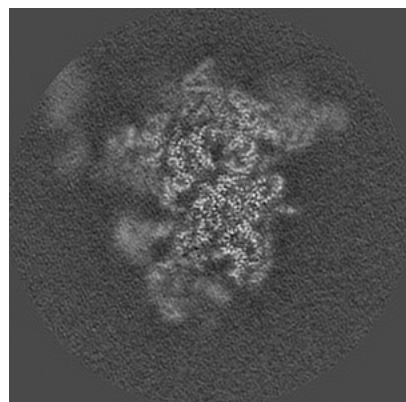


Z

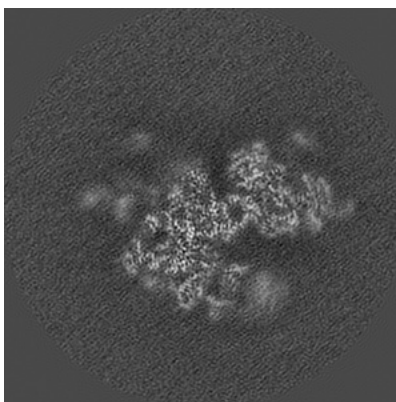
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

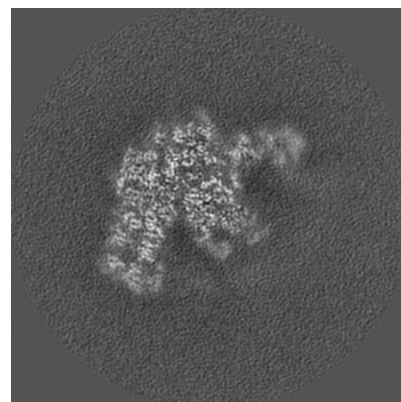
6.2.1 Primary map



X Index: 200



Y Index: 200

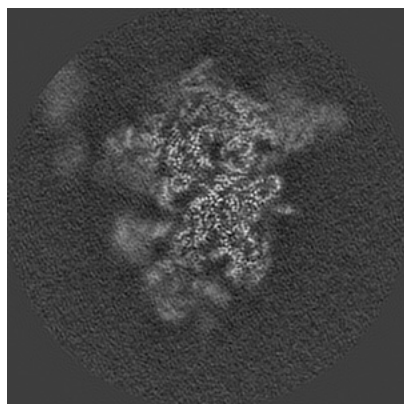


Z Index: 200

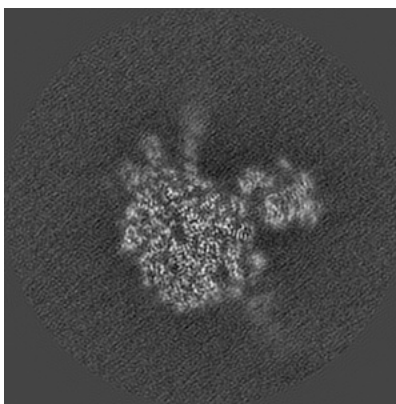
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

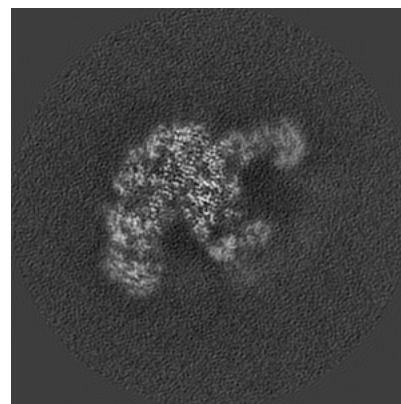
6.3.1 Primary map



X Index: 201



Y Index: 229

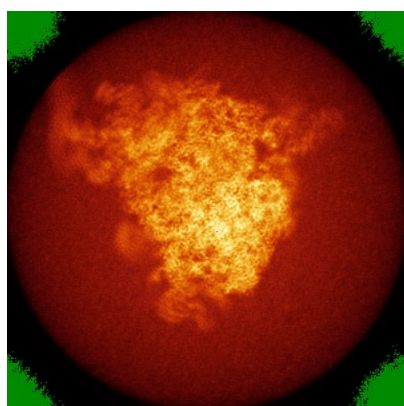


Z Index: 205

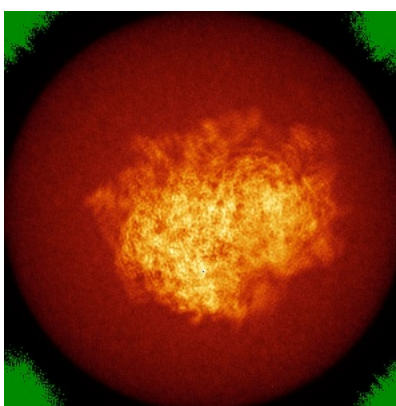
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

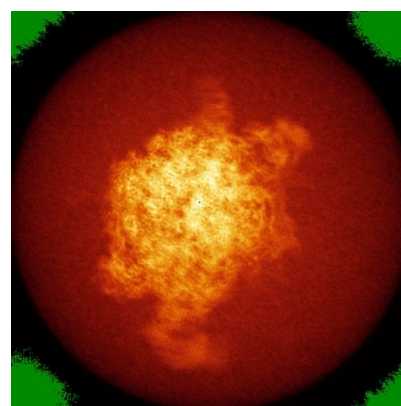
6.4.1 Primary map



X



Y

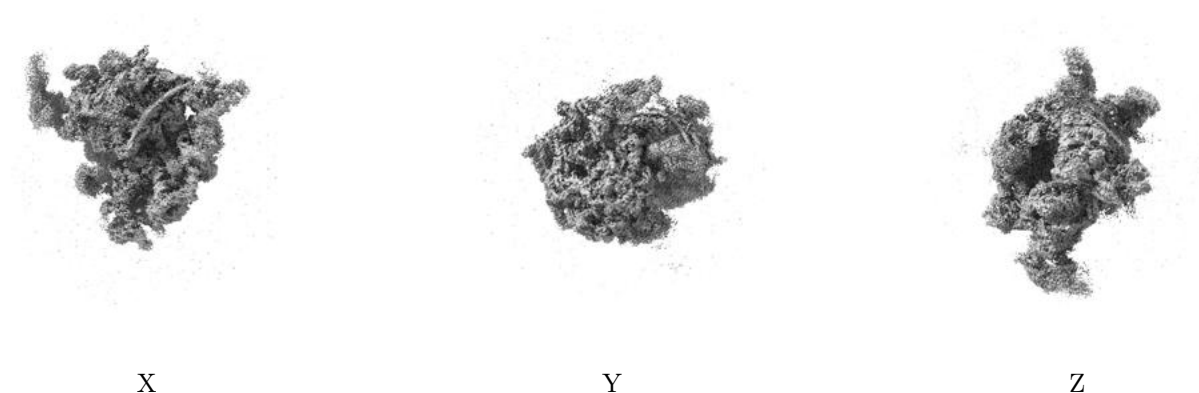


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.035. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

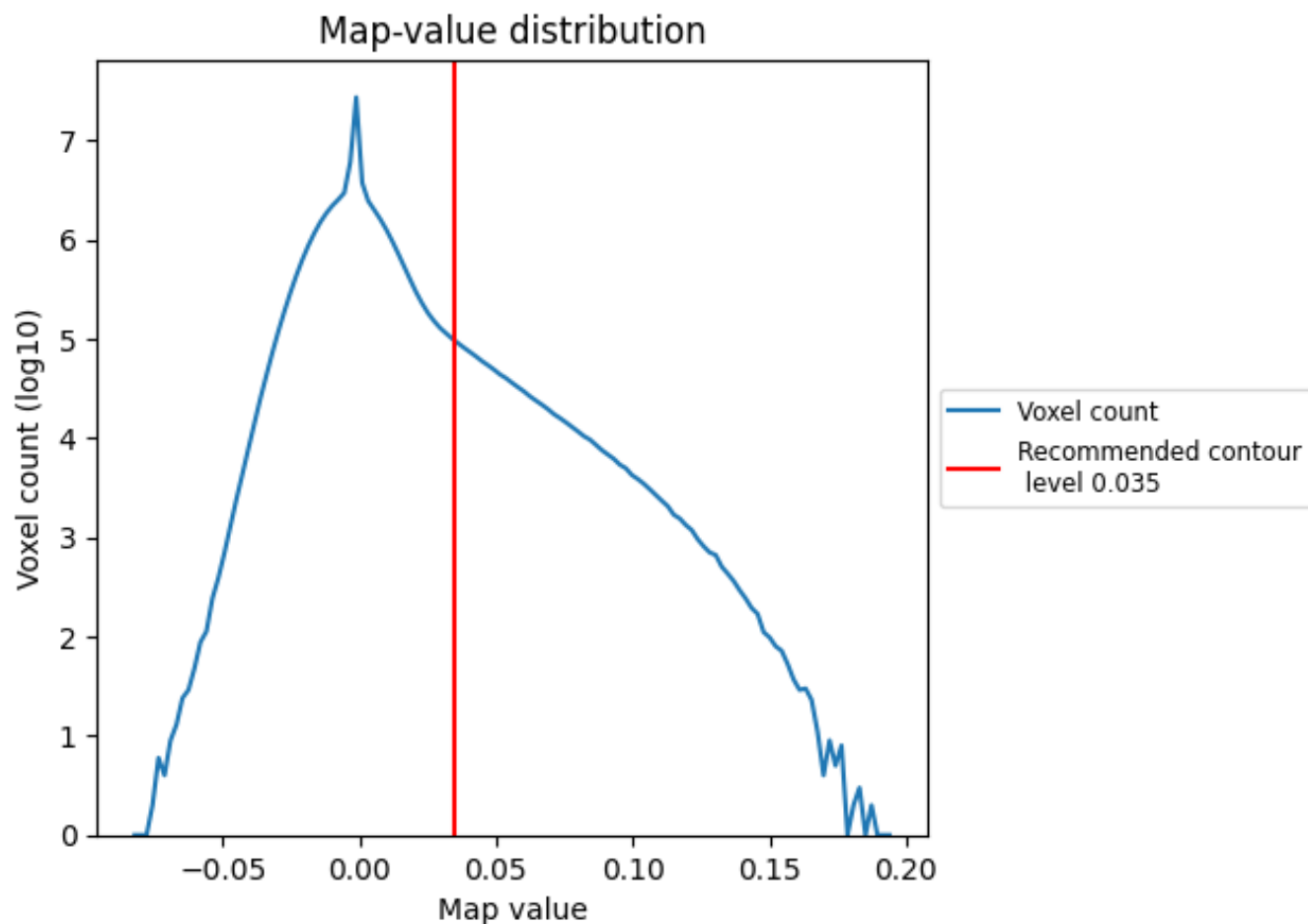
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

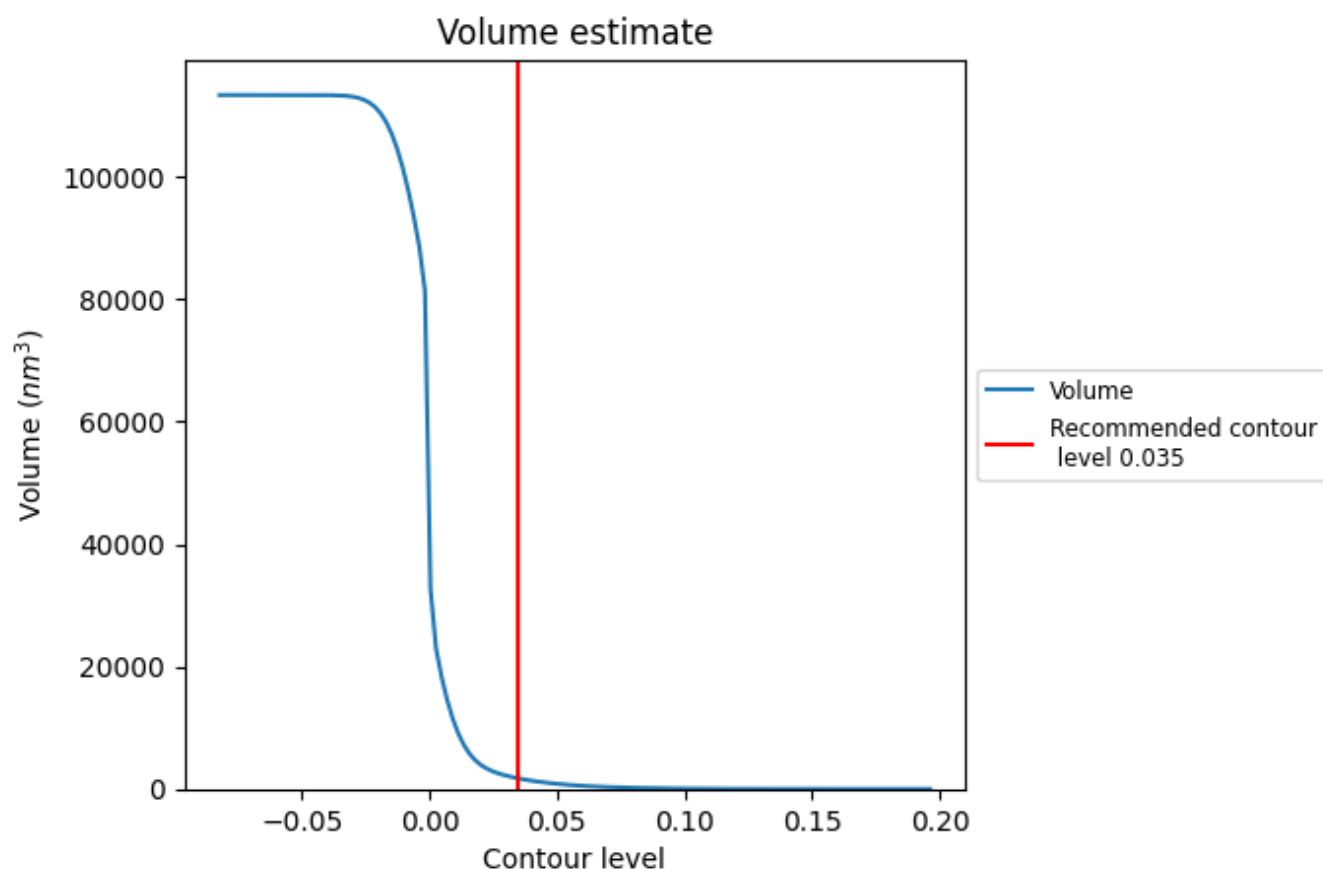
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

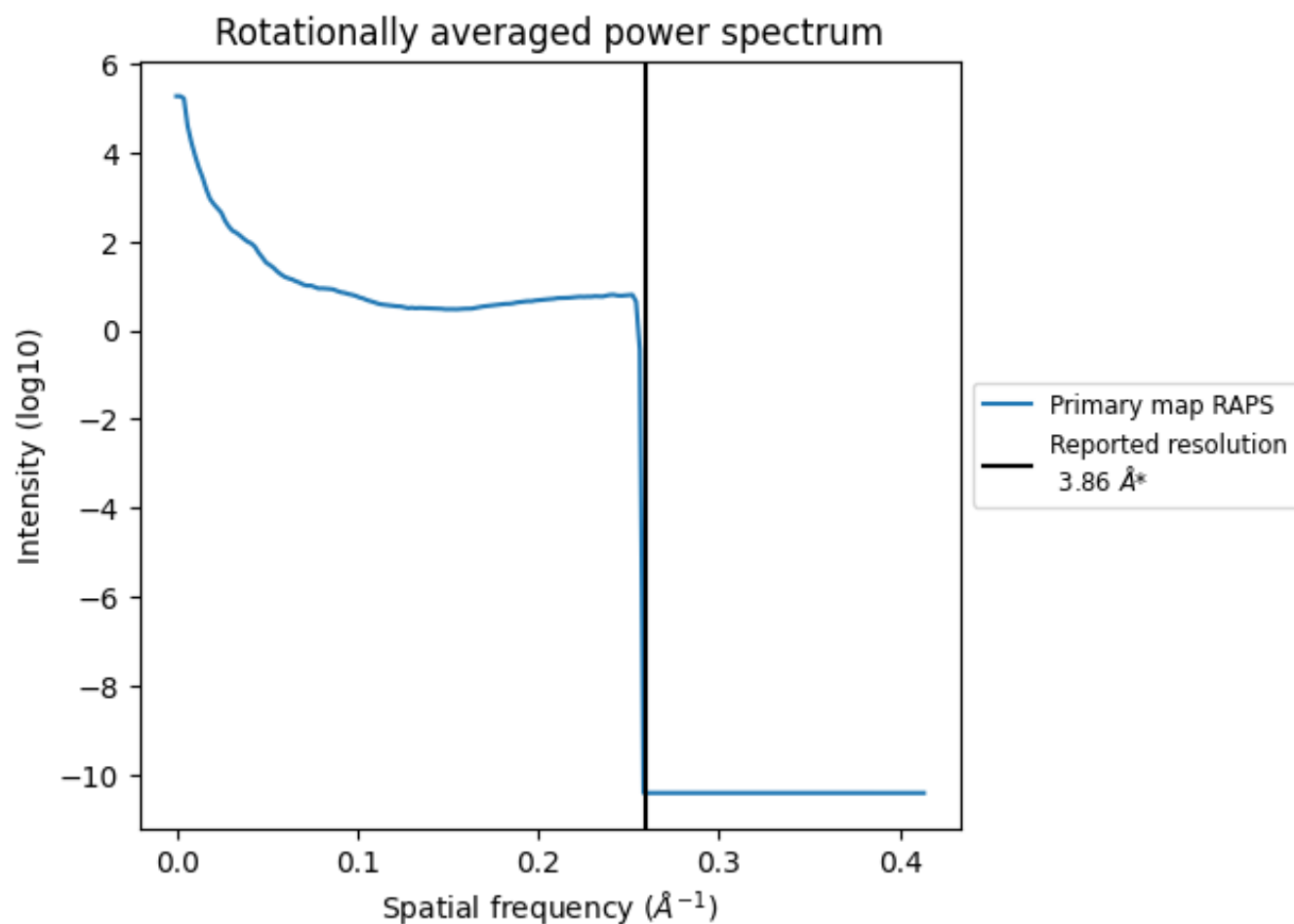
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1711 nm^3 ; this corresponds to an approximate mass of 1546 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.259 Å⁻¹

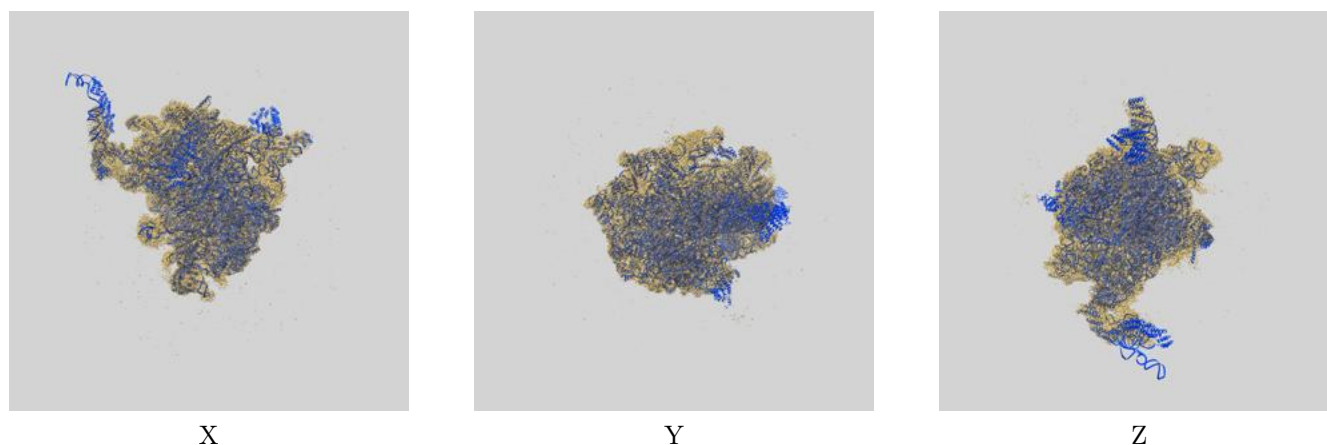
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

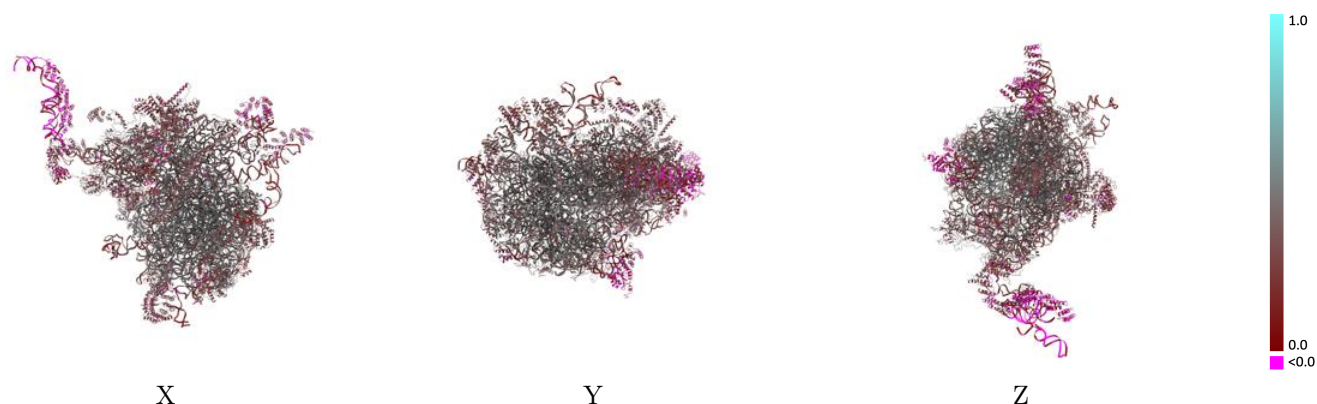
This section contains information regarding the fit between EMDB map EMD-10654 and PDB model 6XYW. Per-residue inclusion information can be found in [section 3](#) on [page 20](#).

9.1 Map-model overlay [i](#)



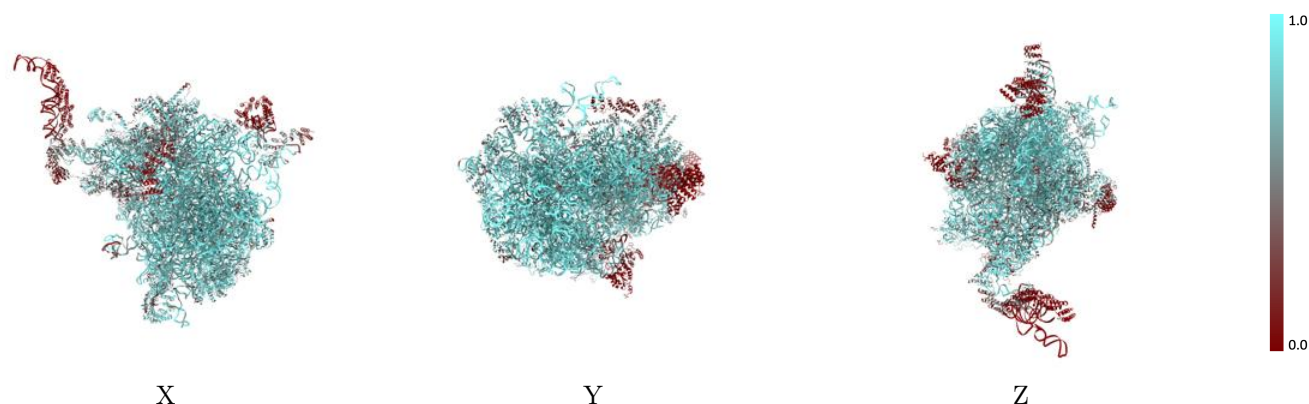
The images above show the 3D surface view of the map at the recommended contour level 0.035 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



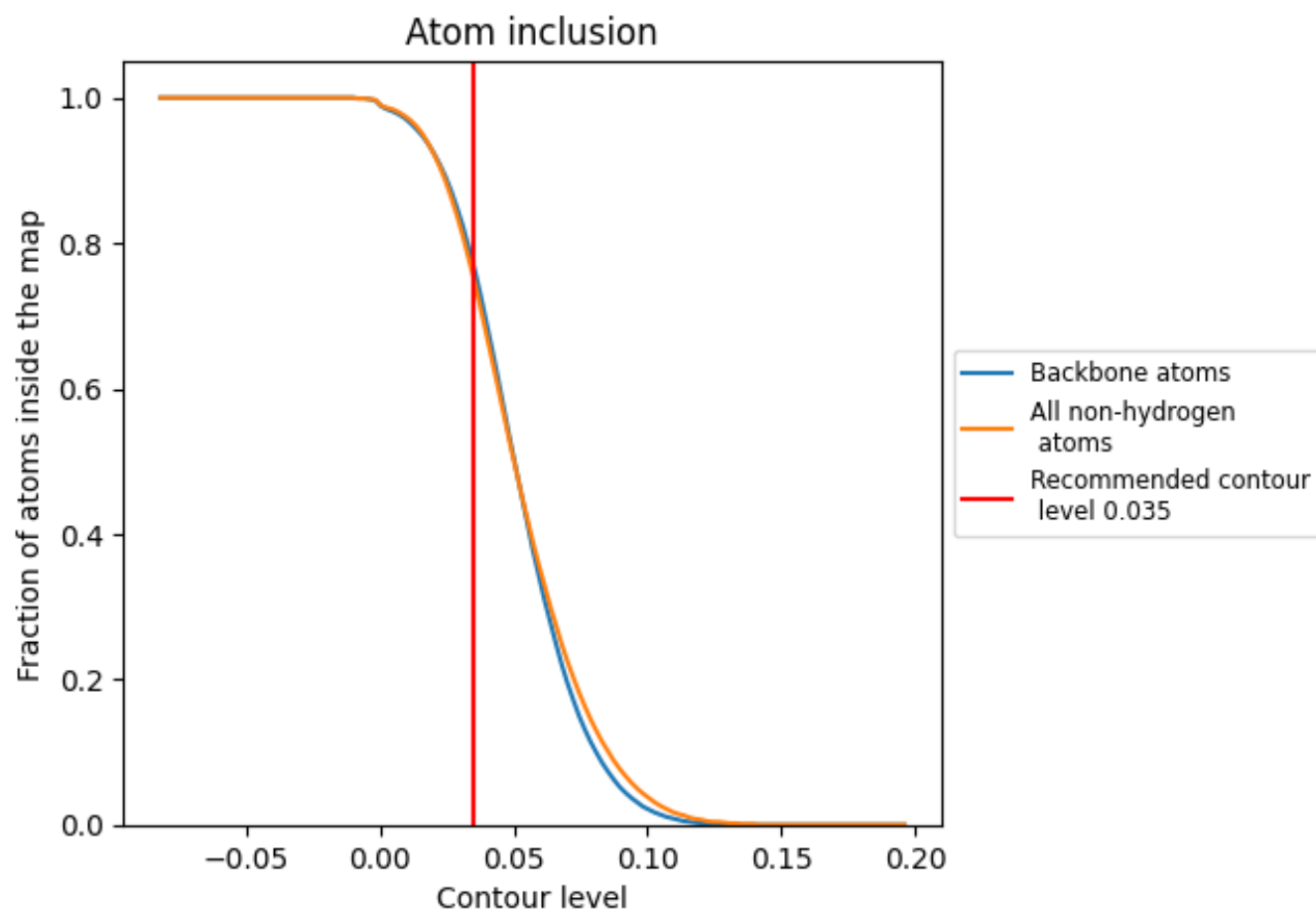
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.035).

9.4 Atom inclusion [i](#)



At the recommended contour level, 77% of all backbone atoms, 75% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.035) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7510	 0.3590
1	 0.8950	 0.3950
2	 0.8180	 0.3350
3	 0.9540	 0.3880
AA	 0.7600	 0.3460
AB	 0.8160	 0.4630
AC	 0.8330	 0.4390
AD	 0.8080	 0.4600
AE	 0.6680	 0.4590
AF	 0.7150	 0.3070
AG	 0.7700	 0.4460
AH	 0.8200	 0.4400
AI	 0.6970	 0.3330
AJ	 0.0550	 0.1150
AK	 0.7830	 0.4140
AL	 0.8420	 0.4370
AM	 0.7880	 0.4290
AN	 0.7230	 0.4140
AO	 0.7120	 0.3420
AP	 0.6910	 0.2700
AQ	 0.6640	 0.3290
AR	 0.9030	 0.3810
Aa	 0.7230	 0.4570
Ab	 0.7970	 0.4760
Ac	 0.8150	 0.4450
Ad	 0.7900	 0.4370
Ae	 0.6480	 0.3580
Af	 0.3760	 0.3710
Ag	 0.7510	 0.4030
Ah	 0.0080	 -0.0030
Ai	 0.1070	 0.1780
Aj	 0.8210	 0.4370
Ak	 0.6510	 0.4550
Al	 0.7710	 0.4360
Am	 0.5370	 0.4340



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Chain	Atom inclusion	Q-score
An	 0.8230	 0.4470
Ao	 0.8350	 0.4090
Ap	 0.7600	 0.4430
Aq	 0.8180	 0.4250
Ar	 0.8070	 0.4250
As	 0.7920	 0.4550
At	 0.7480	 0.4530
Au	 0.7810	 0.3890
Av	 0.6890	 0.3670
Aw	 0.8370	 0.4560
Ax	 0.7880	 0.4540
Ay	 0.7520	 0.3860
Az	 0.7420	 0.3300
BA	 0.2150	 0.2410
BB	 0.5100	 0.4510
BC	 0.6500	 0.3240
BD	 0.6820	 0.3430
BE	 0.5400	 0.3120
BF	 0.6710	 0.3470
BG	 0.3520	 0.2080
BH	 0.0540	 0.2250
BI	 0.4170	 0.2170
BJ	 0.0160	 0.1570
BK	 0.0230	 0.0260
BL	 0.5840	 0.2630
BM	 0.6560	 0.3030
BN	 0.7940	 0.3430
BO	 0.7870	 0.3040
BP	 0.7630	 0.2640
Ba	 0.5290	 0.3400
Bb	 0.6210	 0.3850
Bc	 0.6580	 0.3540
Bd	 0.6630	 0.4100
Be	 0.6500	 0.3760
Bf	 0.4270	 0.3190
Bg	 0.6420	 0.4110
Bh	 0.6490	 0.3370
Bi	 0.6690	 0.3420
Bj	 0.6290	 0.3770
Bk	 0.5830	 0.3110
Bl	 0.5260	 0.3330
Bm	 0.7070	 0.4040

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Chain	Atom inclusion	Q-score
Bn	 0.7270	 0.3950
Bo	 0.7430	 0.4110
Bp	 0.7440	 0.4300
Bq	 0.6130	 0.3900
Br	 0.3840	 0.0570
Bs	 0.5450	 0.3960
Bt	 0.7590	 0.4240
Bu	 0.4110	 0.3400
Bv	 0.6360	 0.3060
Bw	 0.5520	 0.3120
Bx	 0.5350	 0.3790
By	 0.6640	 0.3250
Bz	 0.5720	 0.3380