



Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 11:12 AM UTC

PDB ID : 6T83 / pdb_00006t83
EMDB ID : EMD-10398
Title : Structure of yeast disome (di-ribosome) stalled on poly(A) tract.
Authors : Tesina, P.; Buschauer, R.; Cheng, J.; Berninghausen, O.; Becker, R.; Beckmann, R.
Deposited on : 2019-10-24
Resolution : 4.00 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:

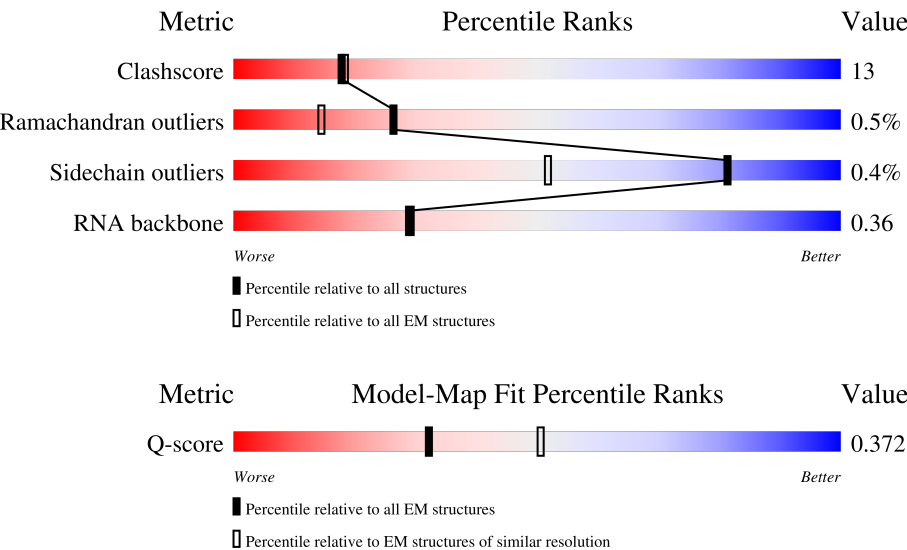
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & 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 4.00 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	7587 (3.50 - 4.50)

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	2b	1800	41%39%19%
1	a	1800	41%40%16%
2	Ab	252	53%29%18%

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Mol	Chain	Length	Quality of chain
2	b	252	
3	Ba	255	
3	c	255	
4	Pb	142	
4	q	142	
5	Cb	254	
5	d	254	
6	Db	240	
6	e	240	
7	Eb	261	
7	f	261	
8	Fb	225	
8	g	225	
9	Gb	236	
9	h	236	
10	Hb	190	
10	i	190	
11	Ib	200	
11	j	200	
12	Jb	197	
12	k	197	
13	Kb	105	
13	l	105	
14	Lb	156	
14	m	156	

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Mol	Chain	Length	Quality of chain
15	Mb	143	
15	n	143	
16	Nb	151	
16	o	151	
17	Ob	137	
17	p	137	
18	Qb	143	
18	r	143	
19	Rb	136	
19	s	136	
20	Sb	146	
20	t	146	
21	Tb	144	
21	u	144	
22	Ub	121	
22	v	121	
23	Vb	87	
23	w	87	
24	Wb	130	
24	x	130	
25	Xb	145	
25	y	145	
26	Yb	135	
26	z	135	
27	0	108	

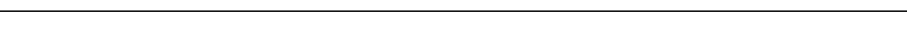
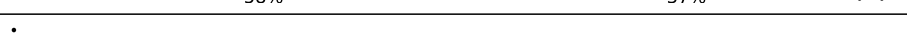
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Mol	Chain	Length	Quality of chain
27	Zb	108	
28	1	119	
28	ab	119	
29	2	82	
29	bb	82	
30	4	56	
30	db	56	
31	5	63	
31	eb	63	
32	6	152	
32	fb	152	
33	7	319	
33	gb	319	
34	3	67	
34	cb	67	
35	4b	121	
35	Bb	121	
36	3b	158	
36	Ca	158	
37	Ay	254	
37	Da	254	
38	By	387	
38	Ea	387	
39	Cy	362	
39	Fa	362	

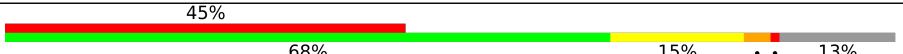
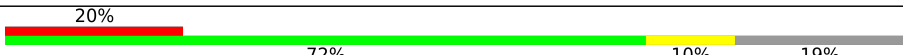
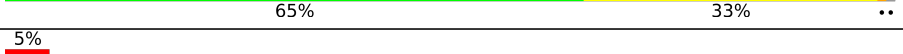
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Mol	Chain	Length	Quality of chain
40	Dy	297	
40	Ga	297	
41	Ey	176	
41	Ha	176	
42	Fy	244	
42	Ia	244	
43	Gy	256	
43	Ja	256	
44	Hy	191	
44	Ka	191	
45	Iy	221	
45	La	221	
46	Jy	174	
46	Ma	174	
47	Ly	199	
47	Na	199	
48	My	138	
48	Oa	138	
49	Ny	204	
49	Pa	204	
50	Oy	199	
50	Qa	199	
51	A	184	
51	Py	184	
52	B	186	

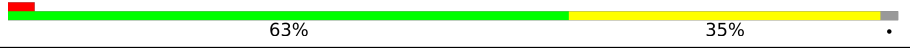
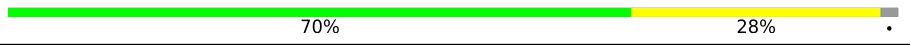
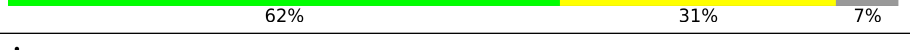
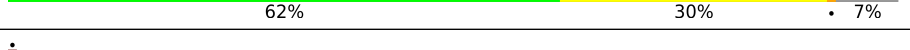
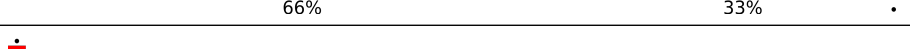
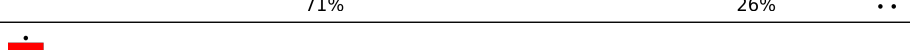
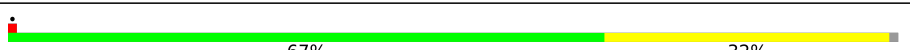
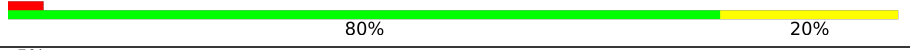
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Mol	Chain	Length	Quality of chain
52	Qy	186	
53	C	189	
53	Ry	189	
54	D	172	
54	Sy	172	
55	E	160	
55	Ty	160	
56	F	121	
56	Uy	121	
57	G	137	
57	Vy	137	
58	H	155	
58	Wy	155	
59	I	142	
59	Xy	142	
60	J	127	
60	Yy	127	
61	K	136	
61	Zy	136	
62	L	149	
62	ay	149	
63	M	59	
63	by	59	
64	N	105	
64	cy	105	

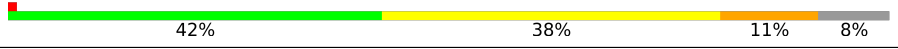
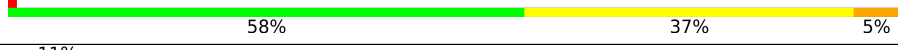
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Mol	Chain	Length	Quality of chain
65	O	113	
65	dy	113	
66	P	130	
66	ey	130	
67	Q	107	
67	fy	107	
68	R	121	
68	gy	121	
69	S	120	
69	hb	120	
70	T	100	
70	ib	100	
71	U	88	
71	jb	88	
72	V	78	
72	kb	78	
73	W	51	
73	lb	51	
74	X	128	
74	mb	128	
75	Y	25	
75	nb	25	
76	Z	106	
76	ob	106	
77	aa	92	

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Mol	Chain	Length	Quality of chain
77	pb	92	
78	1b	3396	
78	Aa	3396	
79	6b	76	
79	8	76	
80	ba	311	

2 Entry composition

There are 80 unique types of molecules in this entry. The entry contains 401820 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 RNA chain called 18S rRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	2b	1771	Total	C	N	O	P	0	0
			37739	16872	6683	12413	1771		
1	a	1758	Total	C	N	O	P	0	0
			37455	16745	6624	12328	1758		

- Molecule 2 is a protein called 40S ribosomal protein S0-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	Ab	206	Total	C	N	O	S	0	0
			1603	1030	284	287	2		
2	b	206	Total	C	N	O	S	0	0
			1583	1017	281	283	2		

- Molecule 3 is a protein called 40S ribosomal protein S1-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	Ba	226	Total	C	N	O	S	0	0
			1798	1139	330	325	4		
3	c	216	Total	C	N	O	S	0	0
			1722	1091	312	315	4		

- Molecule 4 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	Pb	117	Total	C	N	O	S	0	0
			916	583	171	155	7		
4	q	119	Total	C	N	O	S	0	0
			939	595	176	161	7		

- Molecule 5 is a protein called 40S ribosomal protein S2.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	Cb	216	Total	C	N	O	S	0	0
			1626	1042	287	295	2		
5	d	217	Total	C	N	O	S	0	0
			1635	1047	289	297	2		

- Molecule 6 is a protein called 40S ribosomal protein S3.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	Db	222	Total	C	N	O	S	0	0
			1729	1098	312	313	6		
6	e	223	Total	C	N	O	S	0	0
			1734	1101	313	314	6		

- Molecule 7 is a protein called 40S ribosomal protein S4-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	Eb	258	Total	C	N	O	S	0	0
			2056	1308	387	358	3		
7	f	260	Total	C	N	O	S	0	0
			2068	1316	389	360	3		

- Molecule 8 is a protein called Rps5p.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	Fb	206	Total	C	N	O	S	0	0
			1605	1005	299	298	3		
8	g	206	Total	C	N	O	S	0	0
			1609	1007	300	299	3		

- Molecule 9 is a protein called 40S ribosomal protein S6-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	Gb	228	Total	C	N	O	S	0	0
			1815	1138	351	323	3		
9	h	218	Total	C	N	O	S	0	0
			1755	1102	337	313	3		

- Molecule 10 is a protein called 40S ribosomal protein S7-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	Hb	184	Total	C	N	O		0	0
			1473	946	263	264			

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Mol	Chain	Residues	Atoms				AltConf	Trace
10	i	185	Total	C	N	O	0	0
			1486	954	266	266		

- Molecule 11 is a protein called 40S ribosomal protein S8-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	Ib	187	Total	C	N	O	S	0	0
			1476	916	295	263	2		
11	j	188	Total	C	N	O	S	0	0
			1489	925	298	264	2		

- Molecule 12 is a protein called 40S ribosomal protein S9-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	Jb	184	Total	C	N	O	S	0	0
			1479	935	285	258	1		
12	k	185	Total	C	N	O	S	0	0
			1494	943	289	261	1		

- Molecule 13 is a protein called 40S ribosomal protein S10-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	Kb	92	Total	C	N	O	S	0	0
			752	487	122	141	2		
13	l	92	Total	C	N	O	S	0	0
			741	478	121	140	2		

- Molecule 14 is a protein called 40S ribosomal protein S11-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	Lb	144	Total	C	N	O	S	0	0
			1159	742	219	195	3		
14	m	146	Total	C	N	O	S	0	0
			1168	747	221	197	3		

- Molecule 15 is a protein called 40S ribosomal protein S12.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	Mb	121	Total	C	N	O	S	0	0
			875	551	153	169	2		
15	n	124	Total	C	N	O	S	0	0
			890	560	156	172	2		

- Molecule 16 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	Nb	150	Total	C	N	O	S	0	0
			1192	759	224	207	2		
16	o	150	Total	C	N	O	S	0	0
			1192	759	224	207	2		

- Molecule 17 is a protein called 40S ribosomal protein S14-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	Ob	127	Total	C	N	O	S	0	0
			926	569	185	169	3		
17	p	128	Total	C	N	O	S	0	0
			949	582	188	176	3		

- Molecule 18 is a protein called 40S ribosomal protein S16-A.

Mol	Chain	Residues	Atoms				AltConf	Trace
18	Qb	141	Total	C	N	O	0	0
			1105	708	203	194		
18	r	141	Total	C	N	O	0	0
			1105	708	203	194		

- Molecule 19 is a protein called 40S ribosomal protein S17-B.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	Rb	121	Total	C	N	O	S	0	0
			948	596	179	171	2		
19	s	125	Total	C	N	O	S	0	0
			1000	625	188	185	2		

- Molecule 20 is a protein called 40S ribosomal protein S18-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	Sb	145	Total	C	N	O	S	0	0
			1192	743	237	210	2		
20	t	145	Total	C	N	O	S	0	0
			1192	743	237	210	2		

- Molecule 21 is a protein called 40S ribosomal protein S19-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	Tb	143	Total	C	N	O	S	0	0
			1112	694	208	208	2		
21	u	143	Total	C	N	O	S	0	0
			1112	694	208	208	2		

- Molecule 22 is a protein called 40S ribosomal protein S20.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	Ub	100	Total	C	N	O	S	0	0
			797	506	144	146	1		
22	v	101	Total	C	N	O	S	0	0
			805	512	145	147	1		

- Molecule 23 is a protein called 40S ribosomal protein S21-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	Vb	87	Total	C	N	O	S	0	0
			673	415	125	131	2		
23	w	87	Total	C	N	O	S	0	0
			684	420	125	137	2		

- Molecule 24 is a protein called 40S ribosomal protein S22-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	Wb	129	Total	C	N	O	S	0	0
			1021	650	188	180	3		
24	x	129	Total	C	N	O	S	0	0
			1021	650	188	180	3		

- Molecule 25 is a protein called 40S ribosomal protein S23-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	Xb	144	Total	C	N	O	S	0	0
			1121	708	220	191	2		
25	y	144	Total	C	N	O	S	0	0
			1121	708	220	191	2		

- Molecule 26 is a protein called 40S ribosomal protein S24-A.

Mol	Chain	Residues	Atoms				AltConf	Trace
26	Yb	134	Total	C	N	O	0	0
			1073	676	208	189		

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Mol	Chain	Residues	Atoms				AltConf	Trace
26	z	134	Total	C	N	O	0	0
			1073	676	208	189		

- Molecule 27 is a protein called 40S ribosomal protein S25-A.

Mol	Chain	Residues	Atoms				AltConf	Trace
27	Zb	82	Total	C	N	O	0	0
			651	416	123	112		
27	0	69	Total	C	N	O	0	0
			558	357	103	98		

- Molecule 28 is a protein called 40S ribosomal protein S26-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	ab	97	Total	C	N	O	S	0	0
			769	475	160	129	5		
28	1	97	Total	C	N	O	S	0	0
			769	475	160	129	5		

- Molecule 29 is a protein called 40S ribosomal protein S27-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	bb	81	Total	C	N	O	S	0	0
			610	382	110	113	5		
29	2	81	Total	C	N	O	S	0	0
			610	382	110	113	5		

- Molecule 30 is a protein called 40S ribosomal protein S29-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	db	53	Total	C	N	O	S	0	0
			442	274	92	72	4		
30	4	53	Total	C	N	O	S	0	0
			442	274	92	72	4		

- Molecule 31 is a protein called 40S ribosomal protein S30-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	eb	60	Total	C	N	O	S	0	0
			472	298	97	76	1		
31	5	60	Total	C	N	O	S	0	0
			475	299	98	77	1		

- Molecule 32 is a protein called Ubiquitin-40S ribosomal protein S31.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	fb	73	Total	C	N	O	S	0	0
			556	352	105	95	4		
32	6	73	Total	C	N	O	S	0	0
			556	352	105	95	4		

- Molecule 33 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	gb	312	Total	C	N	O	S	0	0
			2383	1514	409	452	8		
33	7	313	Total	C	N	O	S	0	0
			2403	1521	411	463	8		

- Molecule 34 is a protein called 40S ribosomal protein S28-B.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	cb	63	Total	C	N	O	S	0	0
			491	303	96	91	1		
34	3	63	Total	C	N	O	S	0	0
			497	306	99	91	1		

- Molecule 35 is a RNA chain called 5S rRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	4b	121	Total	C	N	O	P	0	0
			2579	1152	461	845	121		
35	Bb	121	Total	C	N	O	P	0	0
			2579	1152	461	845	121		

- Molecule 36 is a RNA chain called 5.8S rRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	3b	158	Total	C	N	O	P	0	0
			3353	1500	586	1109	158		
36	Ca	157	Total	C	N	O	P	0	0
			3333	1491	584	1101	157		

- Molecule 37 is a protein called 60S ribosomal protein L2-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	Ay	251	Total	C	N	O	S	0	0
			1899	1182	385	331	1		
37	Da	252	Total	C	N	O	S	0	0
			1912	1190	388	333	1		

- Molecule 38 is a protein called 60S ribosomal protein L3.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	By	386	Total	C	N	O	S	0	0
			3075	1950	584	533	8		
38	Ea	386	Total	C	N	O	S	0	0
			3075	1950	584	533	8		

- Molecule 39 is a protein called 60S ribosomal protein L4-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	Cy	361	Total	C	N	O	S	0	0
			2748	1729	522	494	3		
39	Fa	361	Total	C	N	O	S	0	0
			2748	1729	522	494	3		

- Molecule 40 is a protein called 60S ribosomal protein L5.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	Dy	294	Total	C	N	O	S	0	0
			2351	1484	410	455	2		
40	Ga	294	Total	C	N	O	S	0	0
			2359	1489	412	456	2		

- Molecule 41 is a protein called 60S ribosomal protein L6-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	Ey	167	Total	C	N	O	S	0	0
			1303	840	234	228	1		
41	Ha	157	Total	C	N	O	S	0	0
			1248	806	224	217	1		

- Molecule 42 is a protein called 60S ribosomal protein L7-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	Fy	222	Total	C	N	O	S	0	0
			1784	1151	324	308	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
42	Ia	223	Total	C	N	O	S	0	0
			1791	1155	325	310	1		

- Molecule 43 is a protein called 60S ribosomal protein L8-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
43	Gy	233	Total	C	N	O	S	0	0
			1804	1151	323	327	3		
43	Ja	231	Total	C	N	O	S	0	0
			1763	1130	316	314	3		

- Molecule 44 is a protein called 60S ribosomal protein L9-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	Hy	191	Total	C	N	O	S	0	0
			1508	957	274	273	4		
44	Ka	190	Total	C	N	O	S	0	0
			1510	957	273	276	4		

- Molecule 45 is a protein called 60S ribosomal protein L10.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	Iy	218	Total	C	N	O	S	0	0
			1764	1117	334	306	7		
45	La	209	Total	C	N	O	S	0	0
			1696	1077	321	293	5		

- Molecule 46 is a protein called 60S ribosomal protein L11-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	Jy	169	Total	C	N	O	S	0	0
			1350	846	253	247	4		
46	Ma	169	Total	C	N	O	S	0	0
			1353	847	253	249	4		

- Molecule 47 is a protein called 60S ribosomal protein L13-A.

Mol	Chain	Residues	Atoms				AltConf	Trace
47	Ly	193	Total	C	N	O	0	0
			1543	962	315	266		
47	Na	194	Total	C	N	O	0	0
			1548	965	316	267		

- Molecule 48 is a protein called 60S ribosomal protein L14-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
48	My	136	Total	C	N	O	S	0	0
			1053	675	199	177	2		
48	Oa	137	Total	C	N	O	S	0	0
			1059	678	200	179	2		

- Molecule 49 is a protein called 60S ribosomal protein L15-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	Ny	203	Total	C	N	O	S	0	0
			1720	1077	361	281	1		
49	Pa	203	Total	C	N	O	S	0	0
			1720	1077	361	281	1		

- Molecule 50 is a protein called 60S ribosomal protein L16-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
50	Oy	197	Total	C	N	O	S	197	0
			1555	1003	289	262	1		
50	Qa	197	Total	C	N	O	S	0	0
			1555	1003	289	262	1		

- Molecule 51 is a protein called 60S ribosomal protein L17-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
51	Py	183	Total	C	N	O	S	0	0
			1416	879	284	253			
51	A	175	Total	C	N	O	S	0	0
			1378	856	273	249			

- Molecule 52 is a protein called 60S ribosomal protein L18-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
52	Qy	185	Total	C	N	O	S	0	0
			1441	908	290	241	2		
52	B	185	Total	C	N	O	S	0	0
			1441	908	290	241	2		

- Molecule 53 is a protein called 60S ribosomal protein L19-A.

Mol	Chain	Residues	Atoms				AltConf	Trace
53	Ry	188	Total	C	N	O	0	0
			1515	932	323	260		
53	C	183	Total	C	N	O	0	0
			1482	911	320	251		

- Molecule 54 is a protein called 60S ribosomal protein L20-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
54	Sy	171	Total	C	N	O	S	0	0
			1437	925	266	243	3		
54	D	172	Total	C	N	O	S	0	0
			1445	930	267	244	4		

- Molecule 55 is a protein called 60S ribosomal protein L21-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
55	Ty	159	Total	C	N	O	S	0	0
			1276	805	246	221	4		
55	E	159	Total	C	N	O	S	0	0
			1276	805	246	221	4		

- Molecule 56 is a protein called 60S ribosomal protein L22-A.

Mol	Chain	Residues	Atoms				AltConf	Trace
56	Uy	100	Total	C	N	O	0	0
			796	516	131	149		
56	F	98	Total	C	N	O	0	0
			778	505	127	146		

- Molecule 57 is a protein called 60S ribosomal protein L23-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
57	Vy	136	Total	C	N	O	S	0	0
			1003	628	189	179	7		
57	G	134	Total	C	N	O	S	0	0
			993	623	187	176	7		

- Molecule 58 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
58	Wy	126	Total	C	N	O	S	0	0
			849	532	167	149	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
58	H	135	Total	C	N	O	S	0	0
			1089	682	219	187	1		

- Molecule 59 is a protein called 60S ribosomal protein L25.

Mol	Chain	Residues	Atoms					AltConf	Trace
59	Xy	121	Total	C	N	O	S	0	0
			964	620	169	173	2		
59	I	120	Total	C	N	O	S	0	0
			959	617	168	172	2		

- Molecule 60 is a protein called 60S ribosomal protein L26-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
60	Yy	125	Total	C	N	O		0	0
			984	620	191	173			
60	J	124	Total	C	N	O		0	0
			976	614	190	172			

- Molecule 61 is a protein called 60S ribosomal protein L27-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
61	Zy	135	Total	C	N	O		0	0
			1092	710	202	180			
61	K	135	Total	C	N	O		0	0
			1092	710	202	180			

- Molecule 62 is a protein called 60S ribosomal protein L28.

Mol	Chain	Residues	Atoms					AltConf	Trace
62	ay	148	Total	C	N	O	S	0	0
			1173	749	231	190	3		
62	L	148	Total	C	N	O	S	0	0
			1173	749	231	190	3		

- Molecule 63 is a protein called 60S ribosomal protein L29.

Mol	Chain	Residues	Atoms					AltConf	Trace
63	by	58	Total	C	N	O		0	0
			462	289	100	73			
63	M	58	Total	C	N	O		0	0
			462	289	100	73			

- Molecule 64 is a protein called 60S ribosomal protein L30.

Mol	Chain	Residues	Atoms					AltConf	Trace
64	cy	96	Total	C	N	O	S	0	0
			737	476	123	137	1		
64	N	100	Total	C	N	O	S	0	0
			767	492	128	146	1		

- Molecule 65 is a protein called 60S ribosomal protein L31-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
65	dy	109	Total	C	N	O	S	0	0
			876	556	167	152	1		
65	O	109	Total	C	N	O	S	0	0
			883	559	167	156	1		

- Molecule 66 is a protein called 60S ribosomal protein L32.

Mol	Chain	Residues	Atoms					AltConf	Trace
66	ey	127	Total	C	N	O	S	0	0
			1017	644	205	167	1		
66	P	127	Total	C	N	O	S	0	0
			1020	647	205	167	1		

- Molecule 67 is a protein called 60S ribosomal protein L33-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
67	fy	106	Total	C	N	O	S	0	0
			850	540	165	144	1		
67	Q	106	Total	C	N	O	S	0	0
			850	540	165	144	1		

- Molecule 68 is a protein called 60S ribosomal protein L34-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
68	gy	112	Total	C	N	O	S	0	0
			880	545	179	152	4		
68	R	112	Total	C	N	O	S	0	0
			880	545	179	152	4		

- Molecule 69 is a protein called 60S ribosomal protein L35-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
69	hb	119	Total	C	N	O	S	0	0
			969	615	186	167	1		
69	S	119	Total	C	N	O	S	0	0
			965	612	185	167	1		

- Molecule 70 is a protein called 60S ribosomal protein L36-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
70	ib	99	Total	C	N	O	S	0	0
			766	478	154	132	2		
70	T	99	Total	C	N	O	S	0	0
			770	481	156	131	2		

- Molecule 71 is a protein called 60S ribosomal protein L37-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
71	jb	85	Total	C	N	O	S	0	0
			670	408	146	111	5		
71	U	82	Total	C	N	O	S	0	0
			650	396	142	107	5		

- Molecule 72 is a protein called 60S ribosomal protein L38.

Mol	Chain	Residues	Atoms				AltConf	Trace
72	kb	77	Total	C	N	O	0	0
			612	391	115	106		
72	V	77	Total	C	N	O	0	0
			608	388	114	106		

- Molecule 73 is a protein called 60S ribosomal protein L39.

Mol	Chain	Residues	Atoms					AltConf	Trace
73	lb	50	Total	C	N	O	S	0	0
			436	272	97	65	2		
73	W	50	Total	C	N	O	S	0	0
			436	272	97	65	2		

- Molecule 74 is a protein called Ubiquitin-60S ribosomal protein L40.

Mol	Chain	Residues	Atoms					AltConf	Trace
74	mb	52	Total	C	N	O	S	0	0
			417	259	86	67	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
74	X	52	Total	C	N	O	S	0	0
			417	259	86	67	5		

- Molecule 75 is a protein called 60S ribosomal protein L41-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
75	nb	25	Total	C	N	O	S	0	0
			229	139	62	27	1		
75	Y	25	Total	C	N	O	S	0	0
			233	142	63	27	1		

- Molecule 76 is a protein called 60S ribosomal protein L42-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
76	ob	103	Total	C	N	O	S	0	0
			824	517	167	135	5		
76	Z	105	Total	C	N	O	S	0	0
			847	534	170	138	5		

- Molecule 77 is a protein called 60S ribosomal protein L43-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
77	pb	91	Total	C	N	O	S	0	0
			694	429	138	121	6		
77	aa	91	Total	C	N	O	S	0	0
			694	429	138	121	6		

- Molecule 78 is a RNA chain called 25S rRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
78	1b	3184	Total	C	N	O	P	0	0
			68091	30415	12259	22233	3184		
78	Aa	3127	Total	C	N	O	P	0	0
			66891	29878	12066	21820	3127		

- Molecule 79 is a RNA chain called tRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
79	6b	76	Total	C	N	O	P	0	0
			1616	721	281	538	76		
79	8	76	Total	C	N	O	P	0	0
			1616	721	281	538	76		

- Molecule 80 is a protein called 60S acidic ribosomal protein P0.

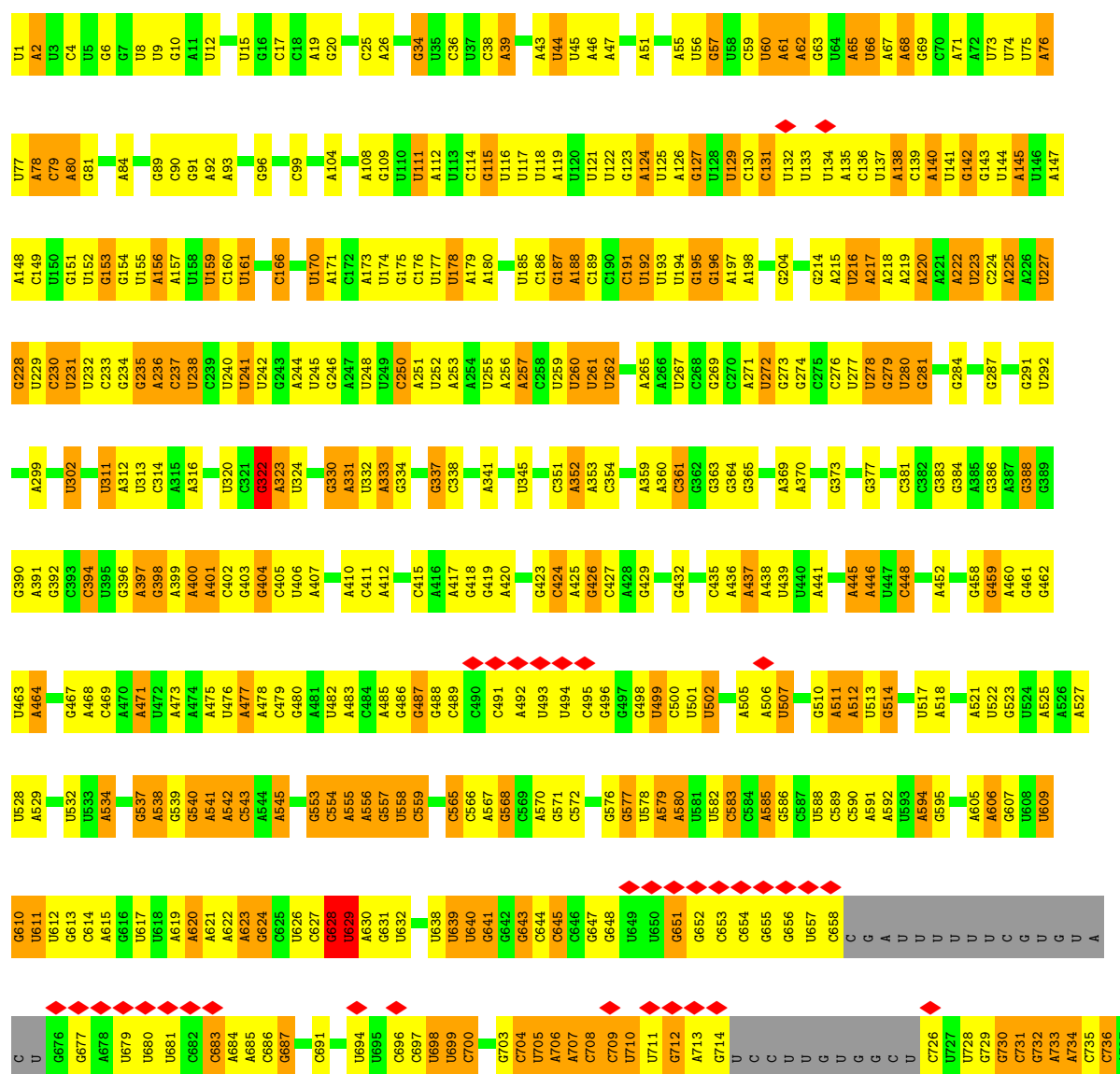
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
80	ba	138	1052	672	187	190	3	0	0

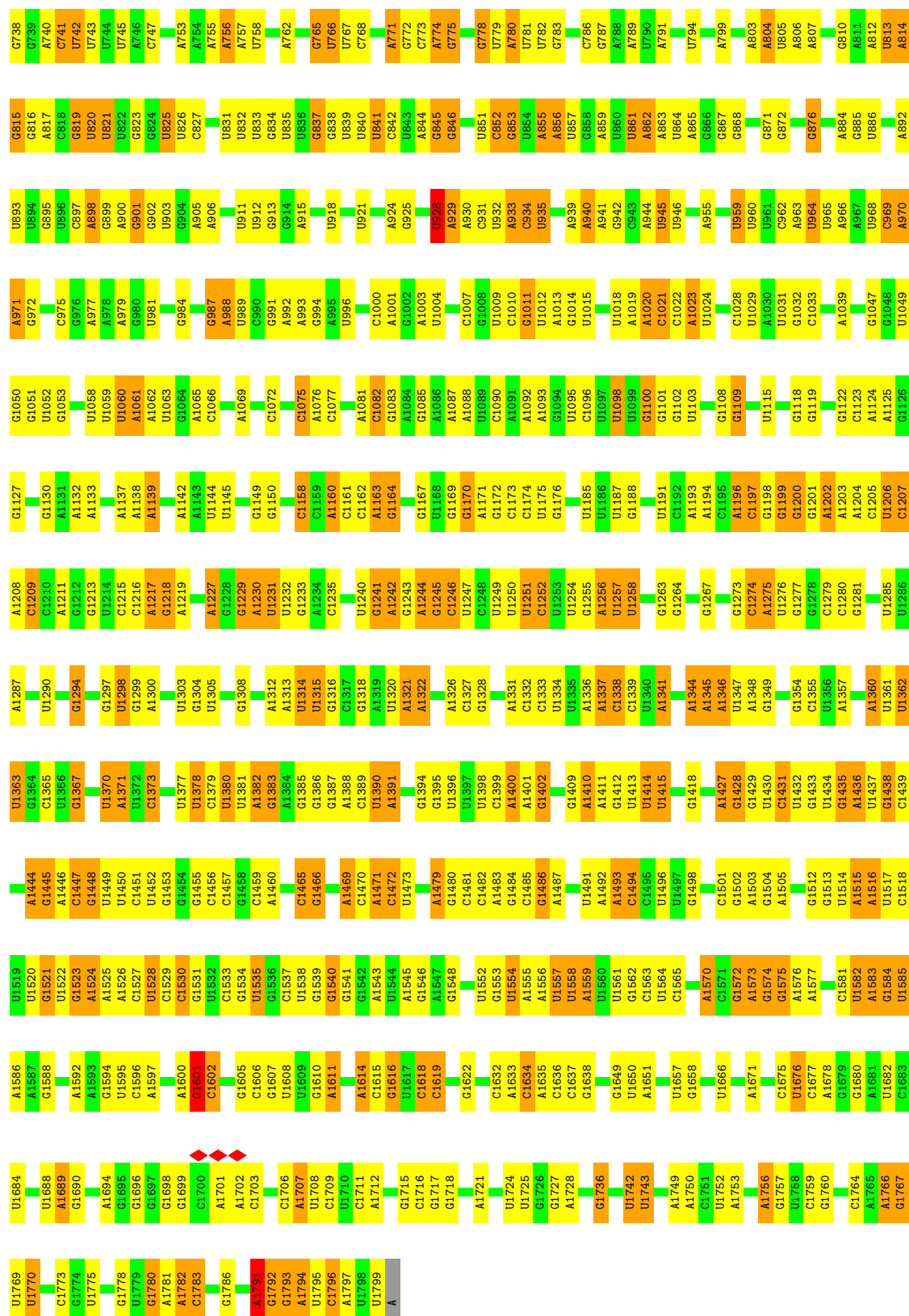
3 Residue-property plots

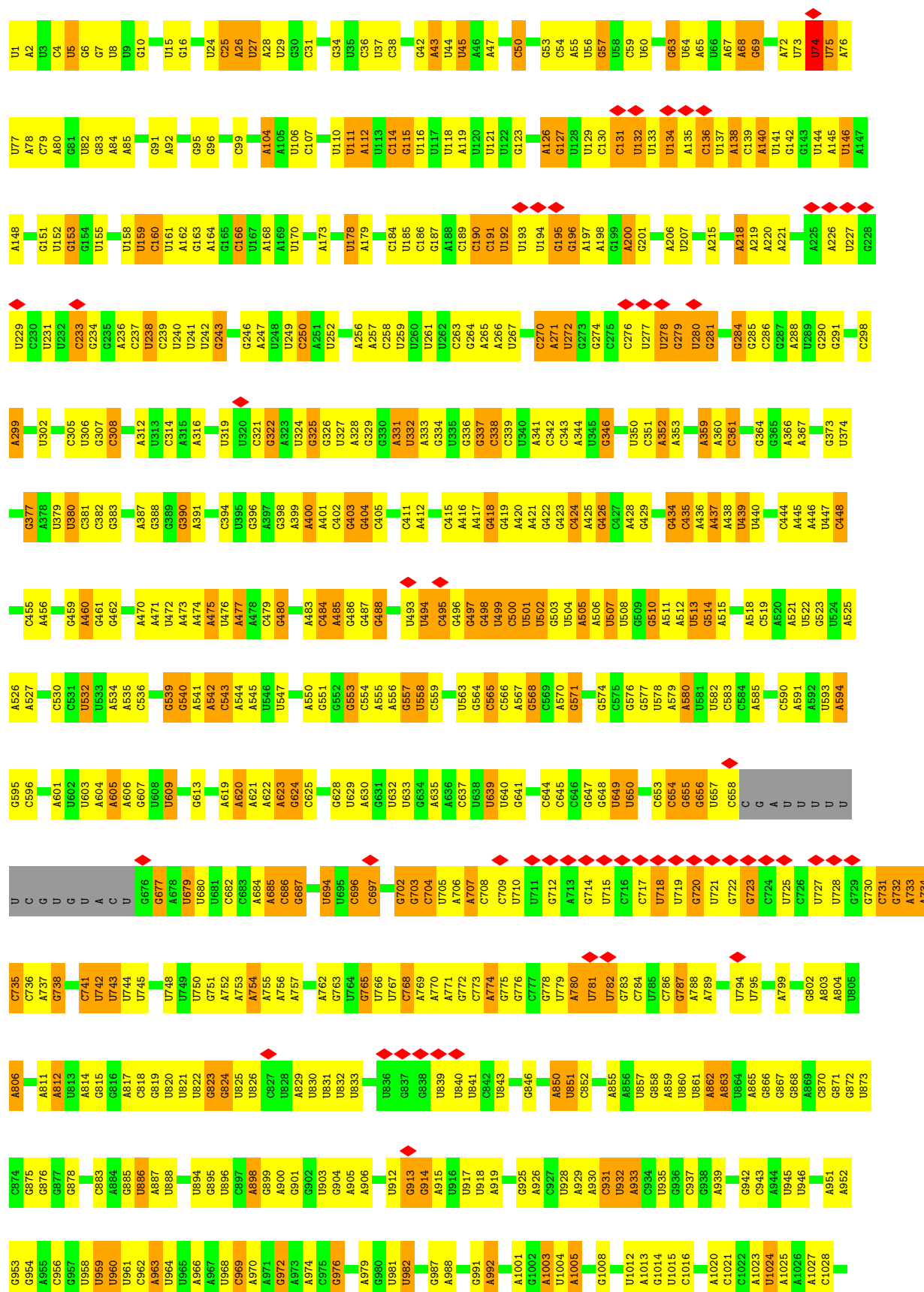
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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.

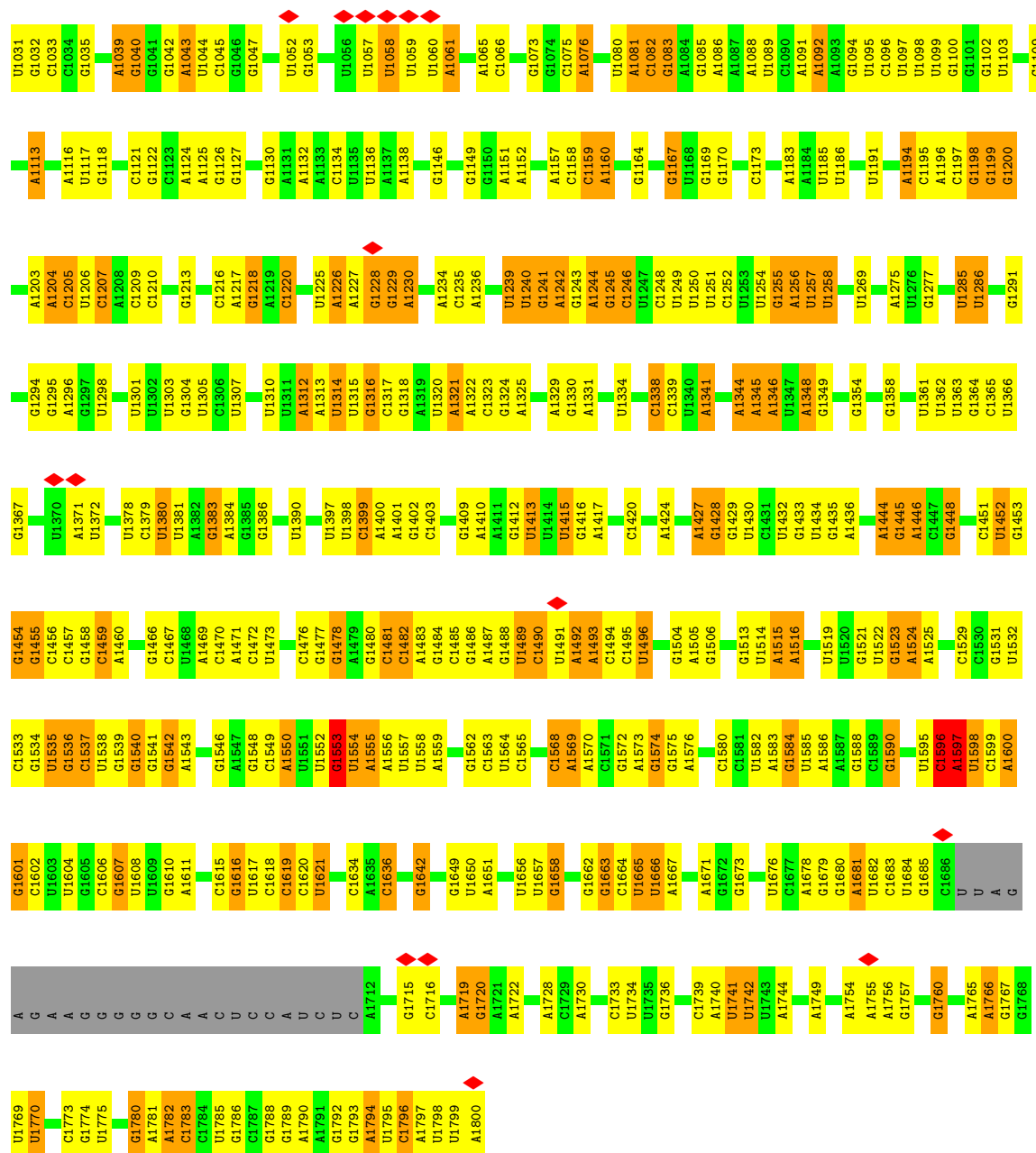
• Molecule 1: 18S rRNA

Chain 2b: 









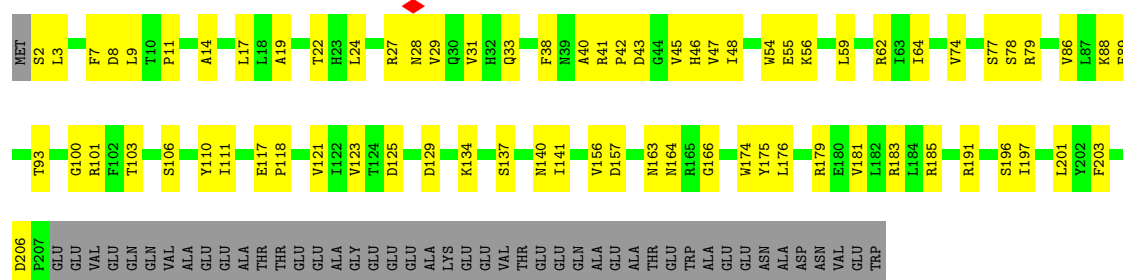
• Molecule 2: 40S ribosomal protein S0-A

Chain Ab:

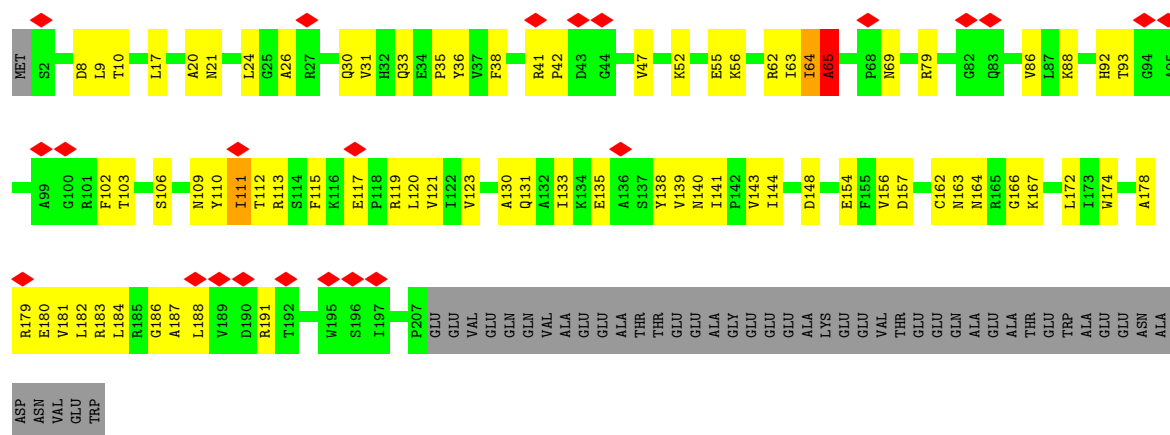
53%

29%

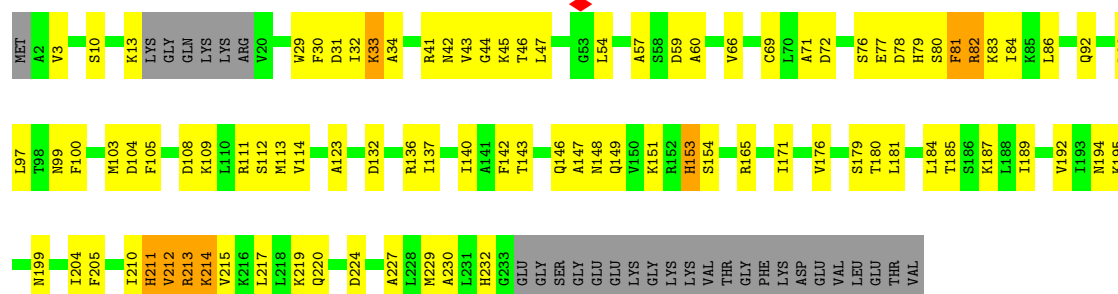
18%



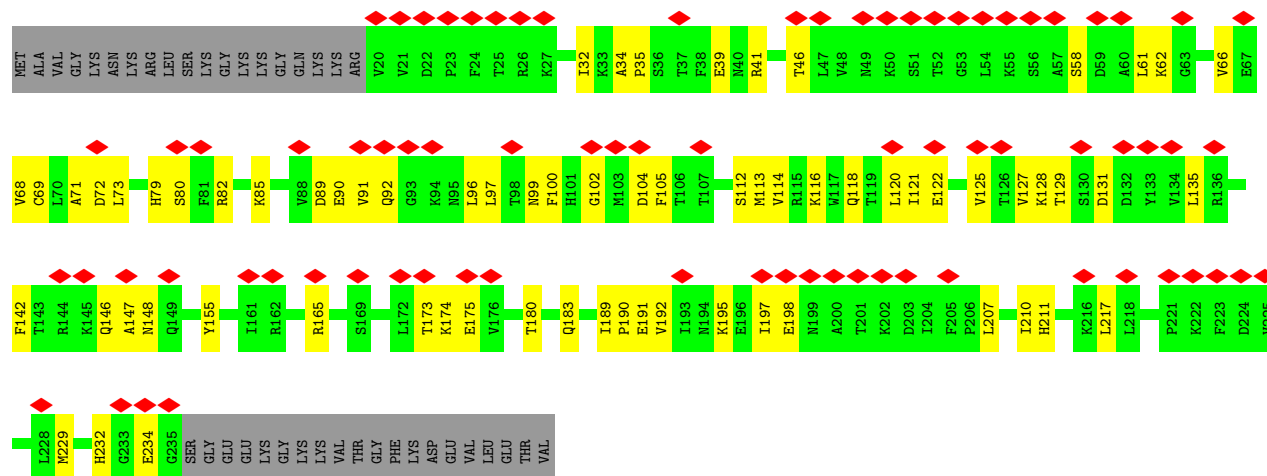
Chain b:

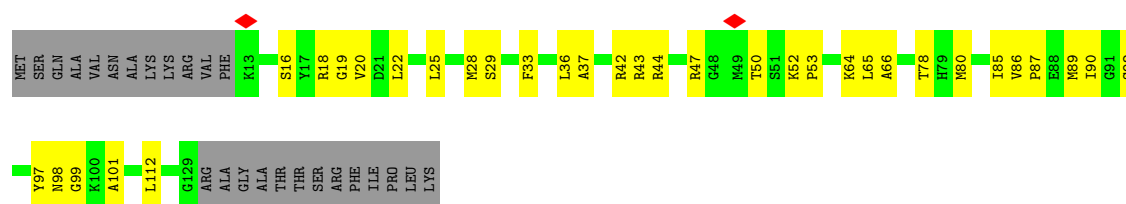


Chain Ba: 53% 33% • 11%

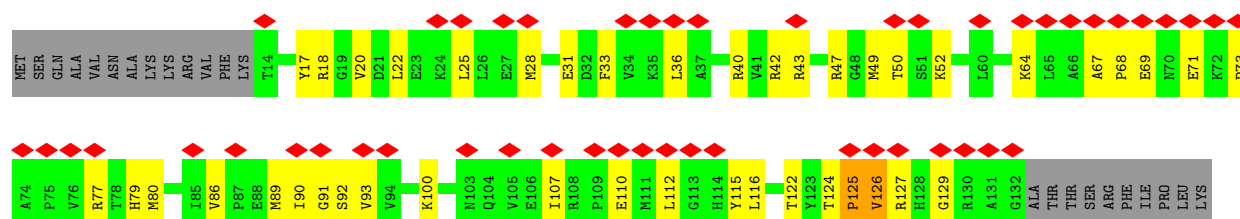


Chain c:

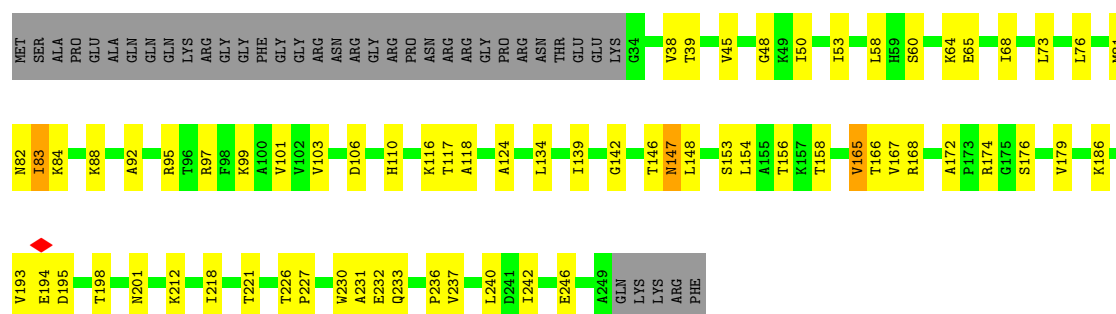




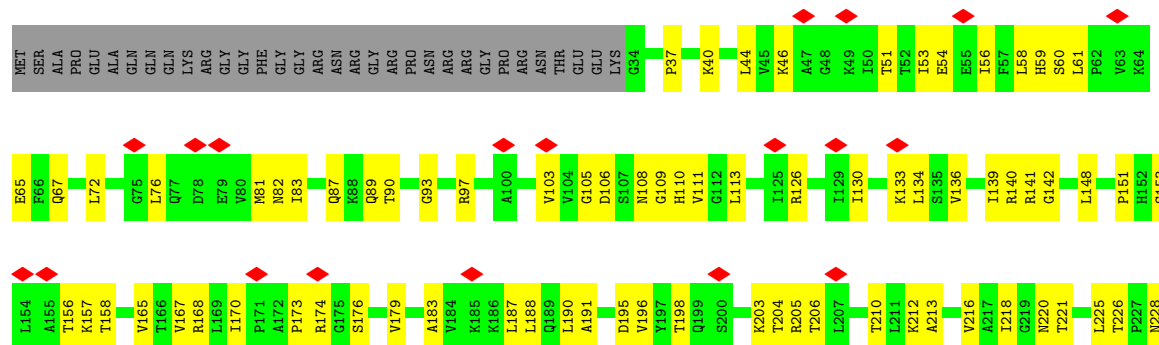
• Molecule 4: 40S ribosomal protein S15



• Molecule 5: 40S ribosomal protein S2



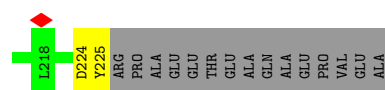
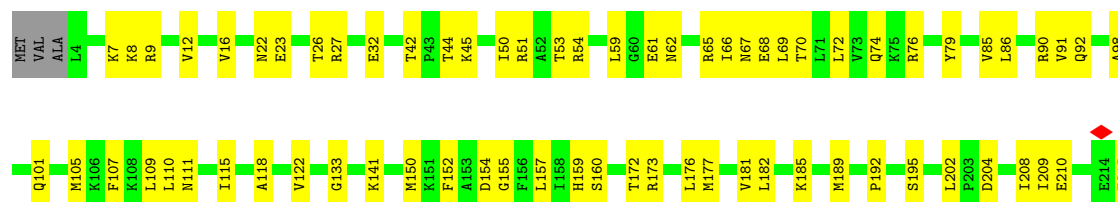
• Molecule 5: 40S ribosomal protein S2





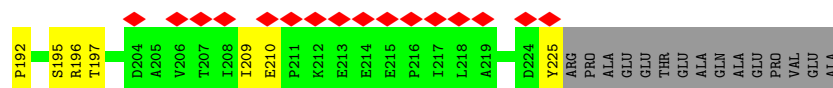
- Molecule 6: 40S ribosomal protein S3

Chain Db: 62% 30% 8%



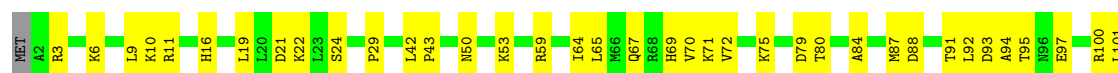
- Molecule 6: 40S ribosomal protein S3

Chain e: 15% 64% 28% 7%



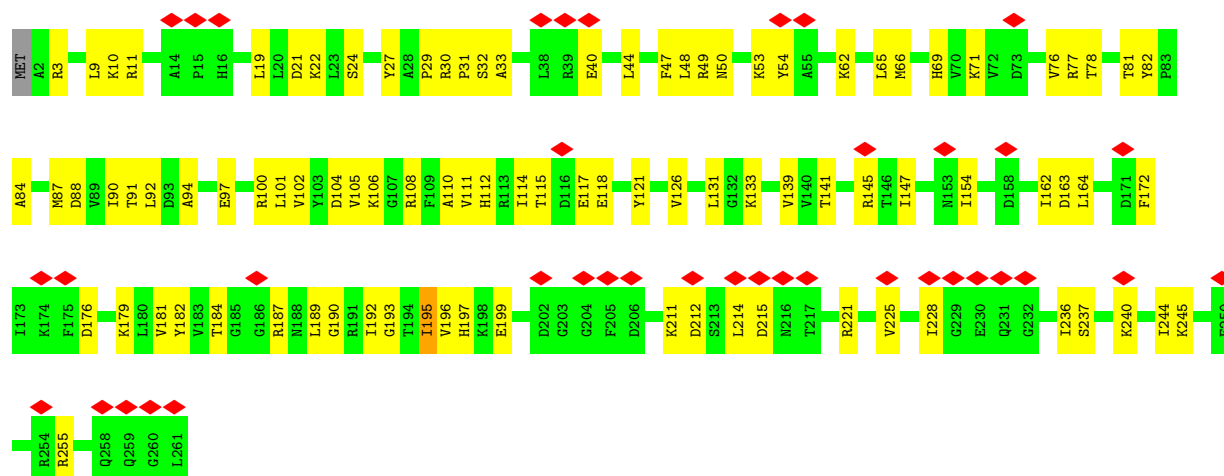
- Molecule 7: 40S ribosomal protein S4-A

Chain Eb: 60% 39%

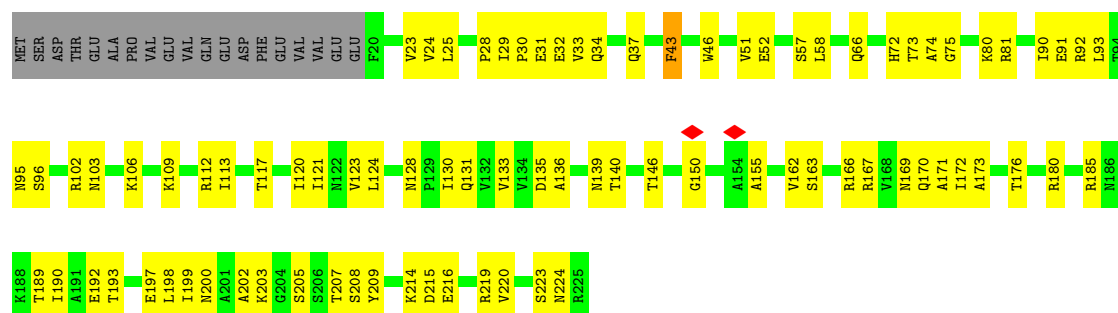


- Molecule 7: 40S ribosomal protein S4-A

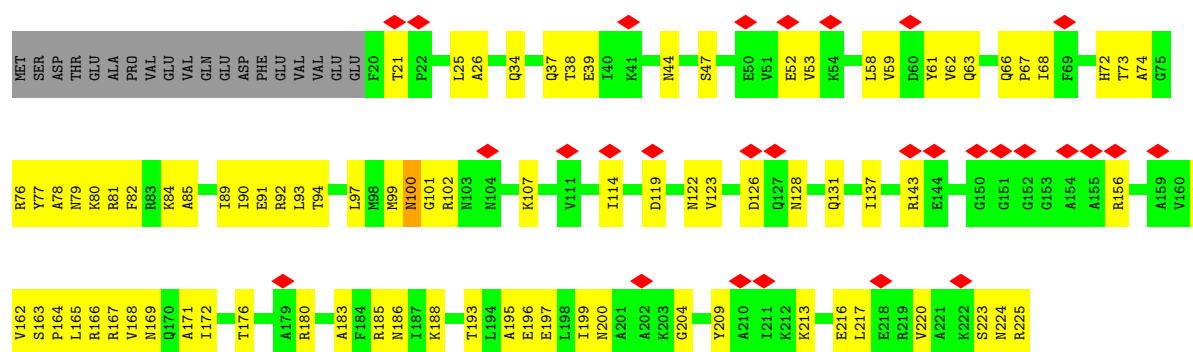
Chain f: 15% 64% 36%



• Molecule 8: Rps5p



• Molecule 8: Rps5p

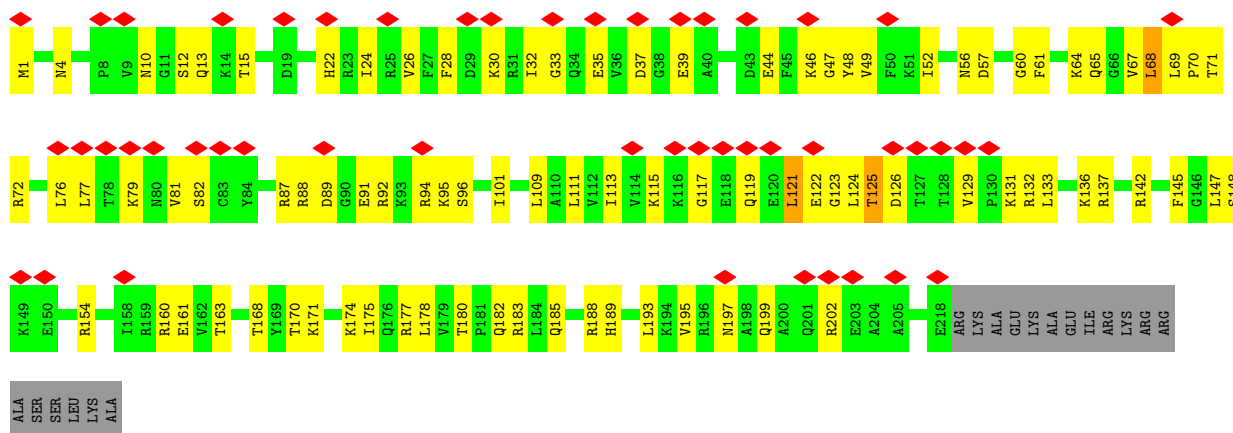


• Molecule 9: 40S ribosomal protein S6-A

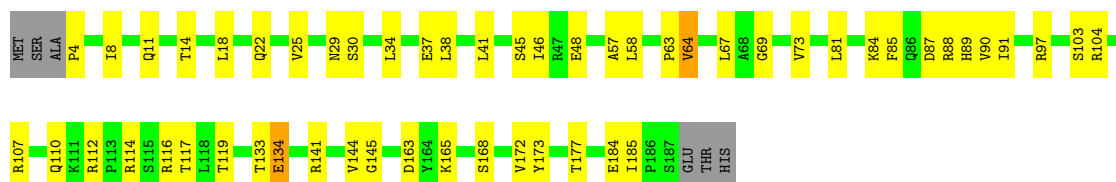




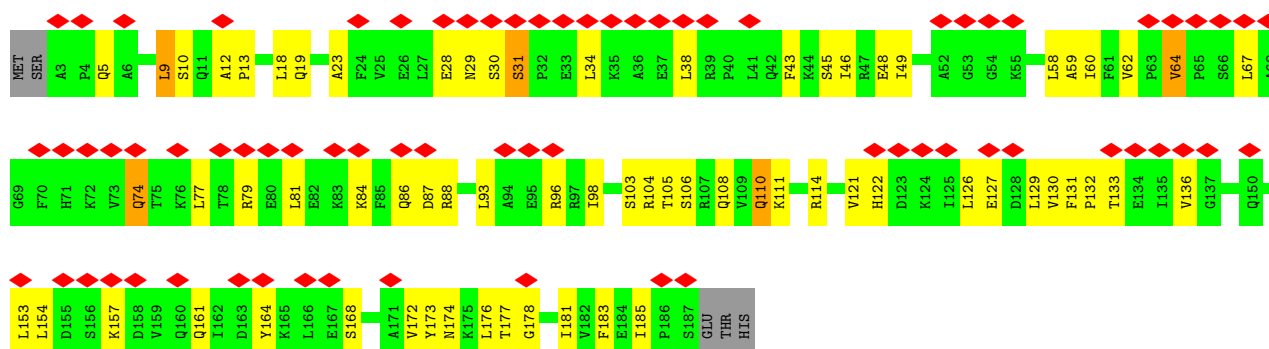
• Molecule 9: 40S ribosomal protein S6-A



• Molecule 10: 40S ribosomal protein S7-A

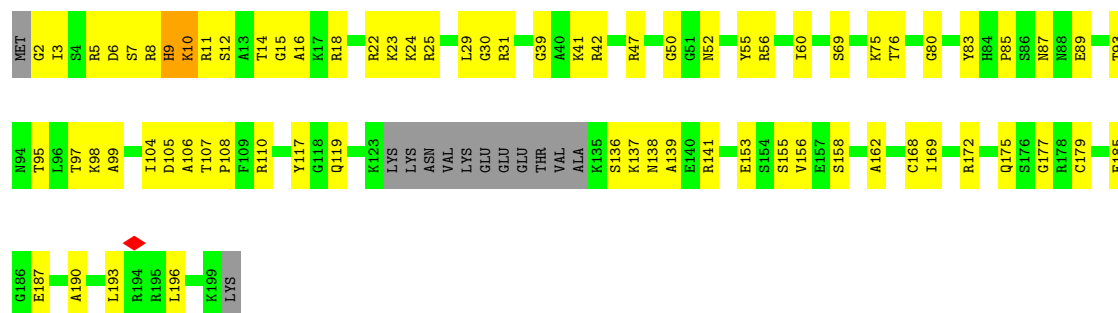


• Molecule 10: 40S ribosomal protein S7-A

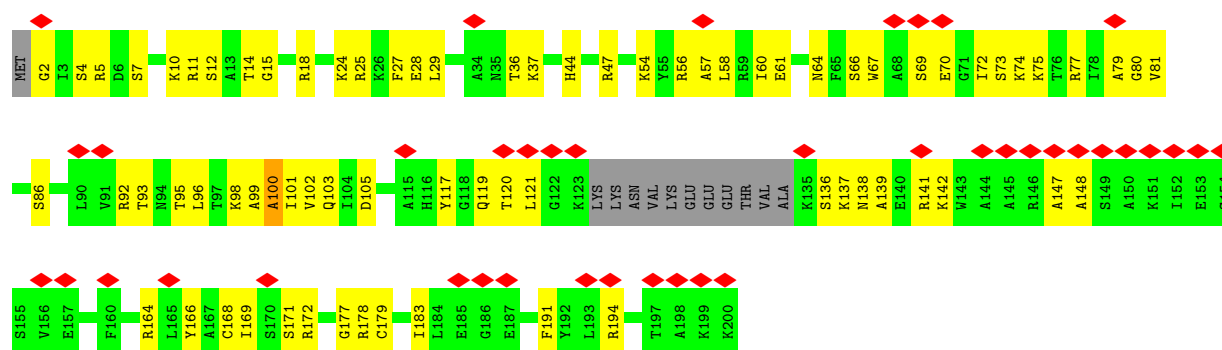


• Molecule 11: 40S ribosomal protein S8-A

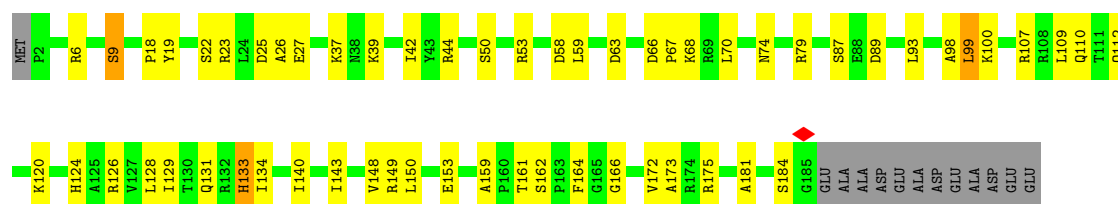




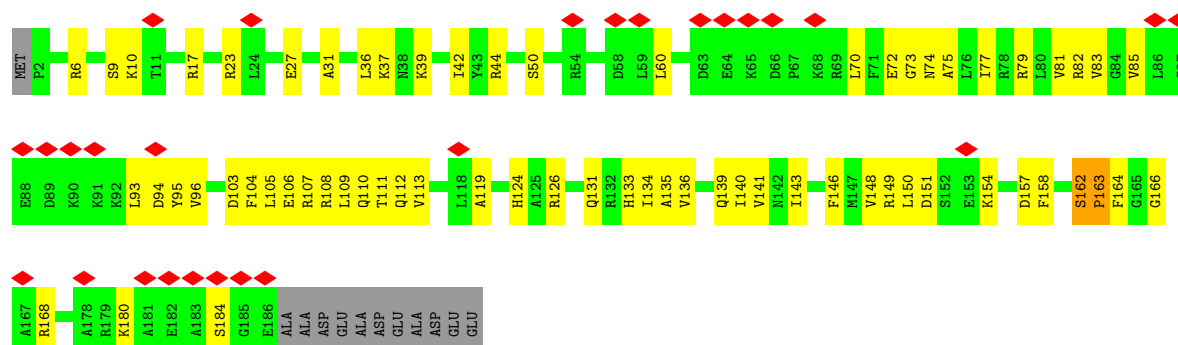
• Molecule 11: 40S ribosomal protein S8-A



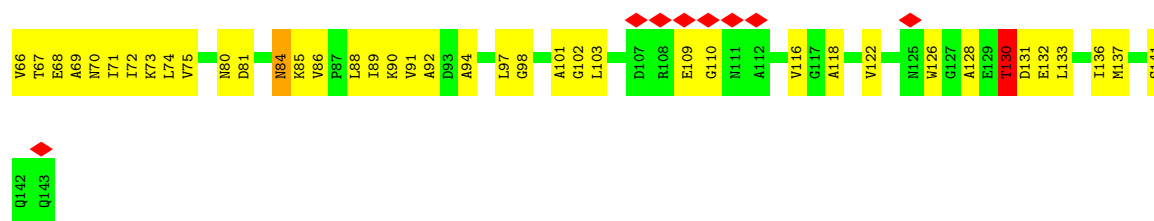
• Molecule 12: 40S ribosomal protein S9-A



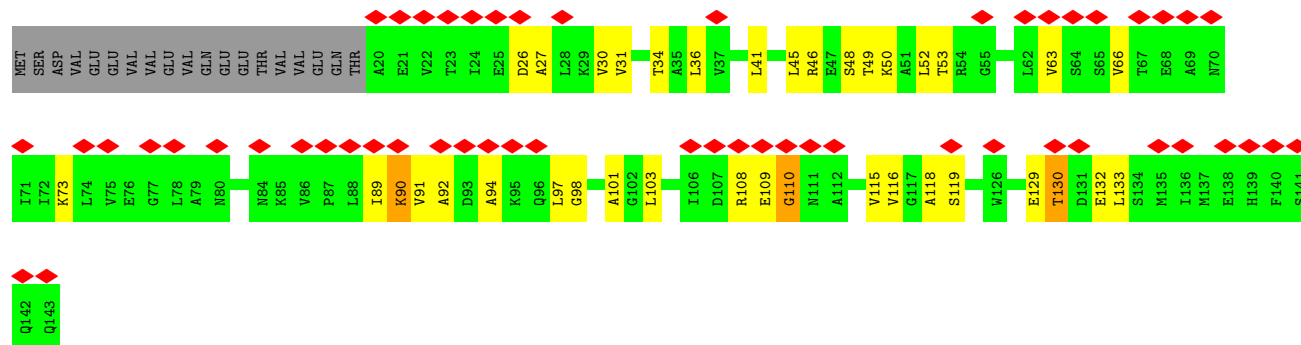
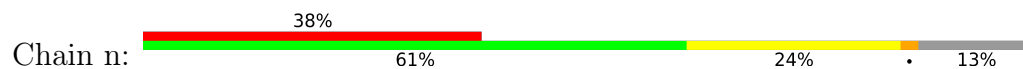
• Molecule 12: 40S ribosomal protein S9-A



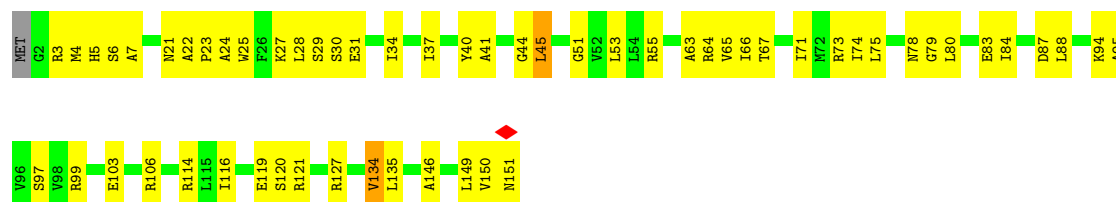
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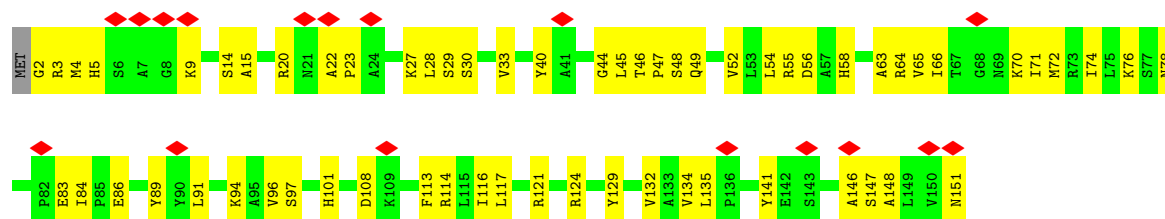
• Molecule 15: 40S ribosomal protein S12



• Molecule 16: 40S ribosomal protein S13

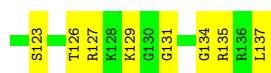


• Molecule 16: 40S ribosomal protein S13

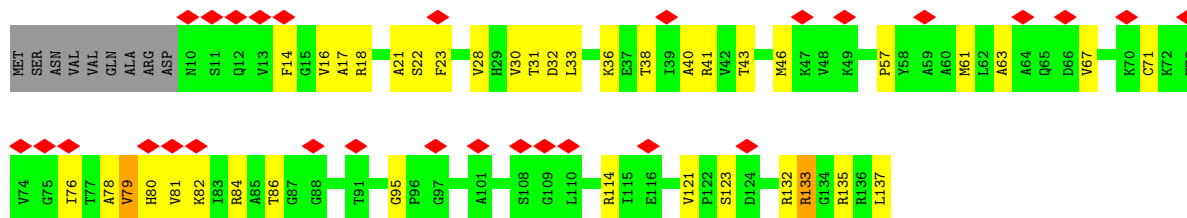


• Molecule 17: 40S ribosomal protein S14-A





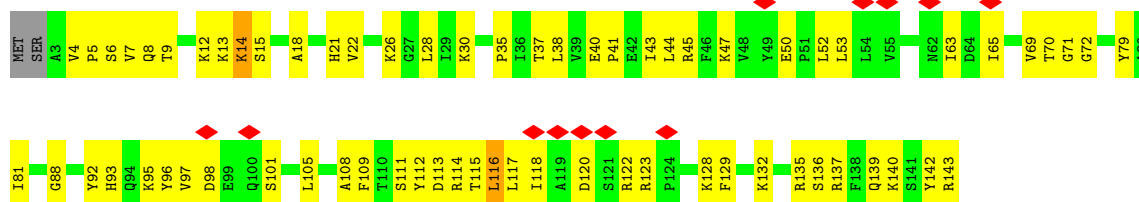
- Molecule 17: 40S ribosomal protein S14-A



- Molecule 18: 40S ribosomal protein S16-A



- Molecule 18: 40S ribosomal protein S16-A

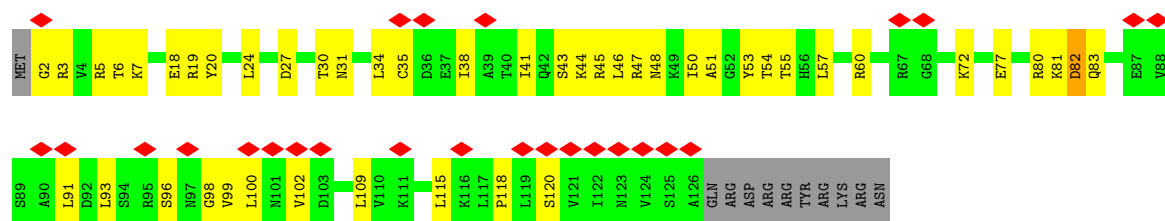


- Molecule 19: 40S ribosomal protein S17-B

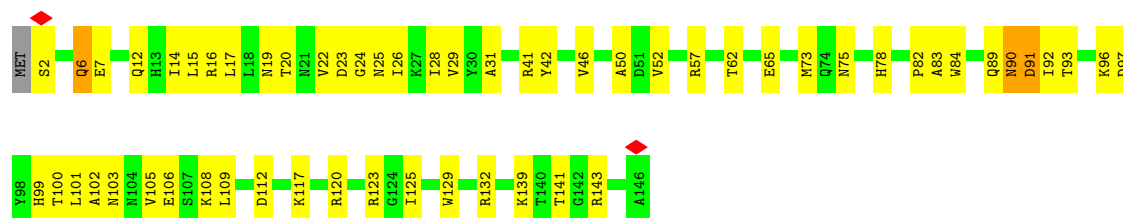


- Molecule 19: 40S ribosomal protein S17-B

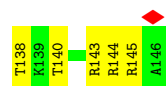
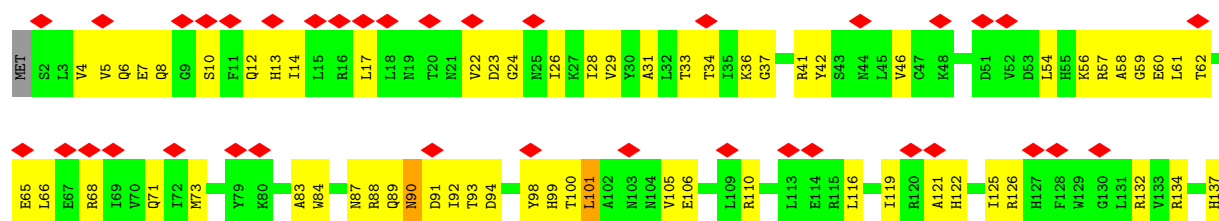




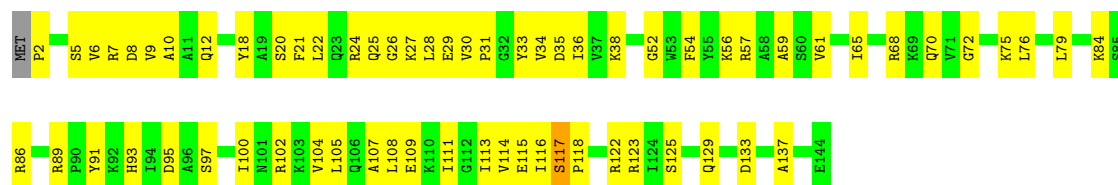
- Molecule 20: 40S ribosomal protein S18-A



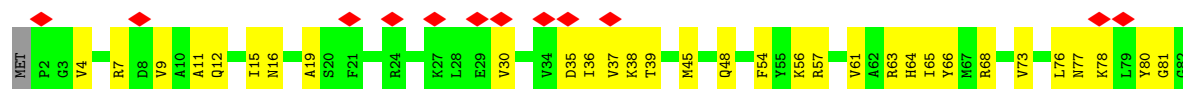
- Molecule 20: 40S ribosomal protein S18-A

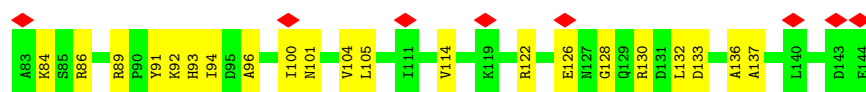


- Molecule 21: 40S ribosomal protein S19-A



- Molecule 21: 40S ribosomal protein S19-A

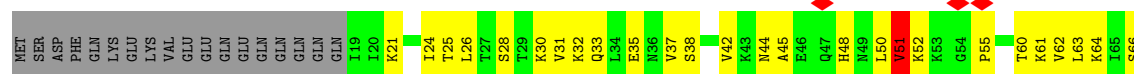




- Molecule 22: 40S ribosomal protein S20



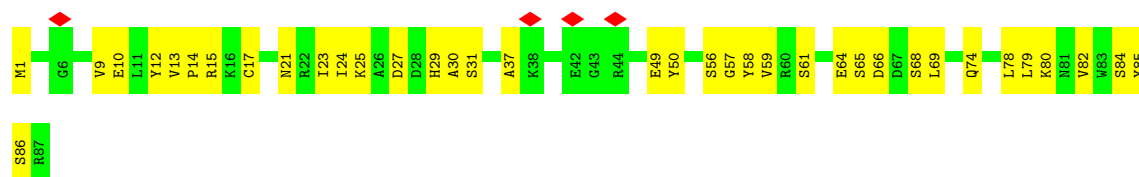
- Molecule 22: 40S ribosomal protein S20



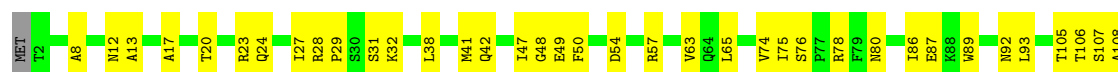
- Molecule 23: 40S ribosomal protein S21-A



- Molecule 23: 40S ribosomal protein S21-A



- Molecule 24: 40S ribosomal protein S22-A





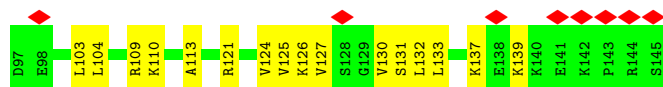
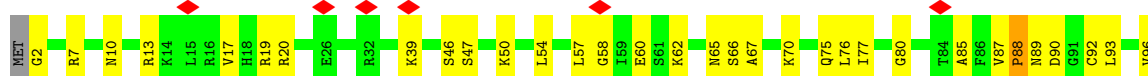
- Molecule 24: 40S ribosomal protein S22-A



- Molecule 25: 40S ribosomal protein S23-A



- Molecule 25: 40S ribosomal protein S23-A

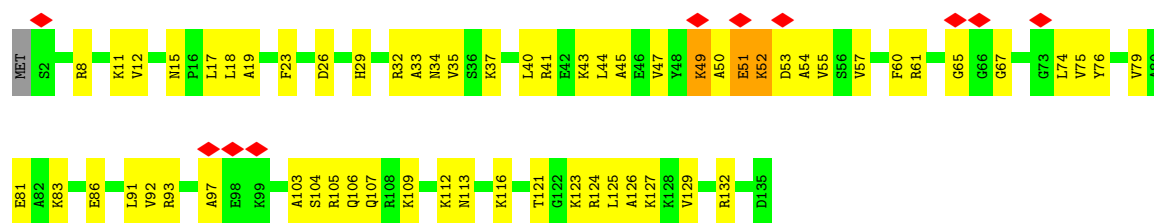


- Molecule 26: 40S ribosomal protein S24-A

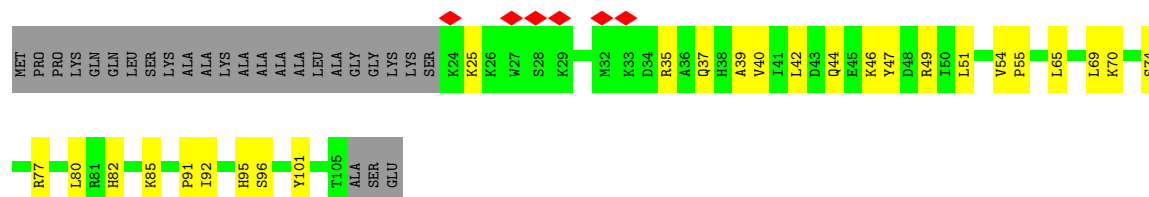


- Molecule 26: 40S ribosomal protein S24-A

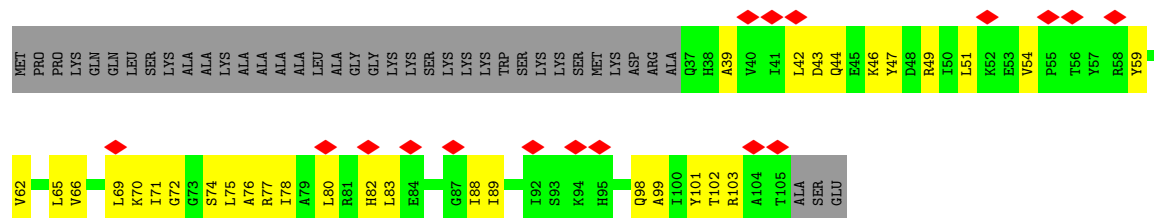




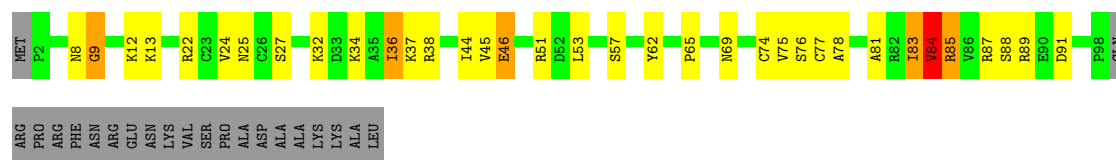
- Molecule 27: 40S ribosomal protein S25-A



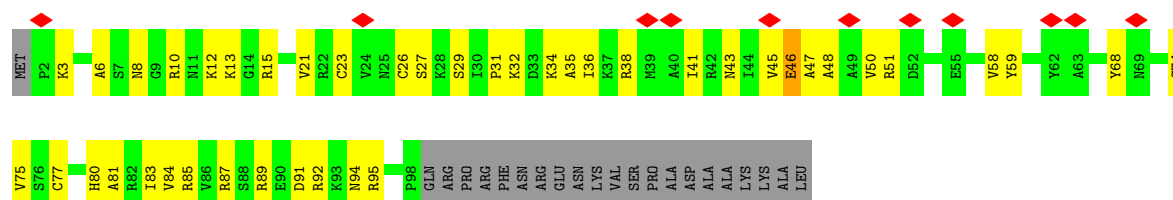
- Molecule 27: 40S ribosomal protein S25-A



- Molecule 28: 40S ribosomal protein S26-A

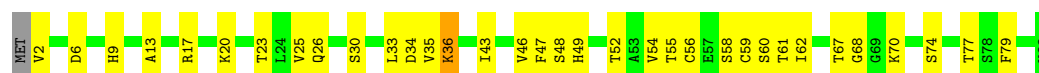


- Molecule 28: 40S ribosomal protein S26-A



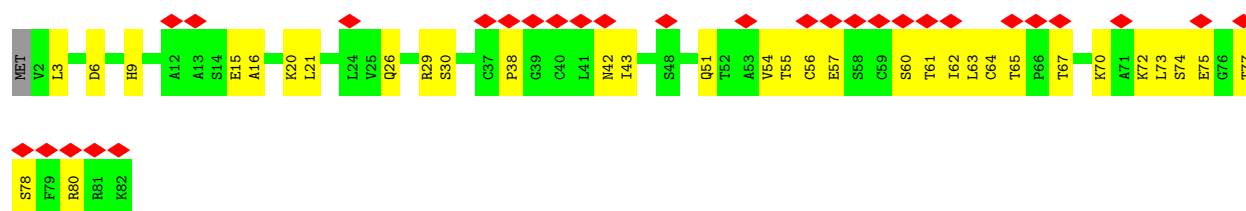
- Molecule 29: 40S ribosomal protein S27-A

Chain bb: 



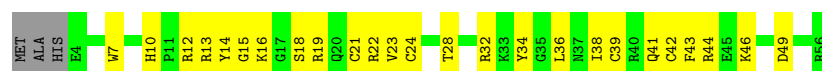
- Molecule 29: 40S ribosomal protein S27-A

Chain 2: 

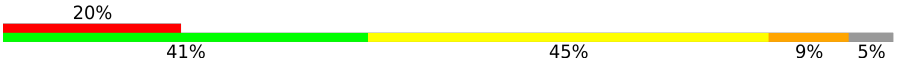


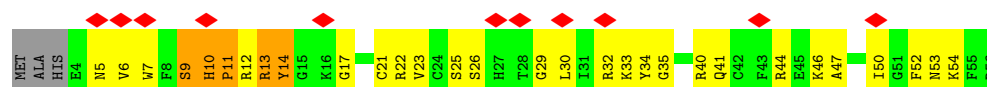
- Molecule 30: 40S ribosomal protein S29-A

Chain db: 



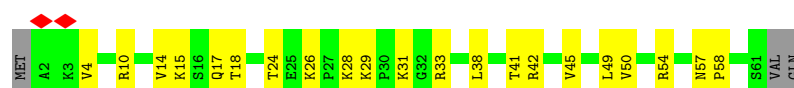
- Molecule 30: 40S ribosomal protein S29-A

Chain 4: 



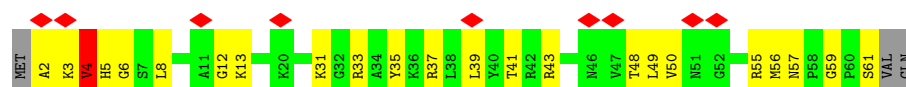
- Molecule 31: 40S ribosomal protein S30-A

Chain eb: 



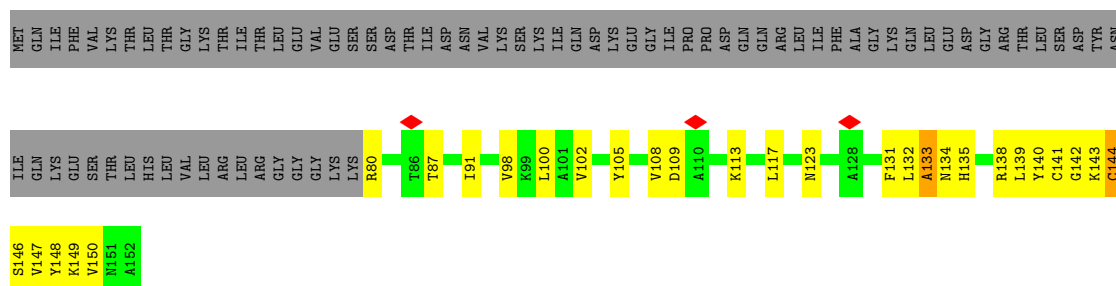
- Molecule 31: 40S ribosomal protein S30-A

Chain 5: 

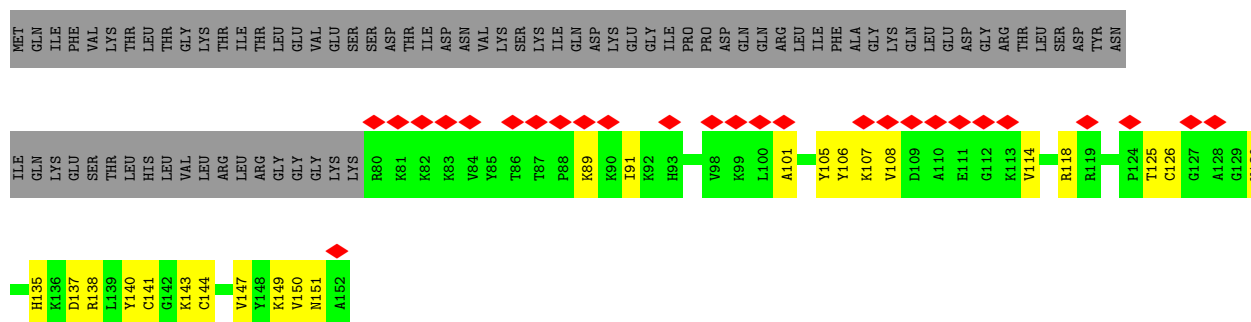
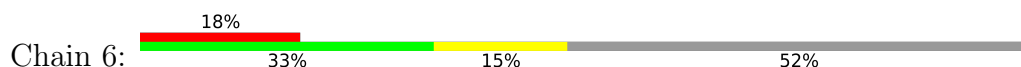


- Molecule 32: Ubiquitin-40S ribosomal protein S31

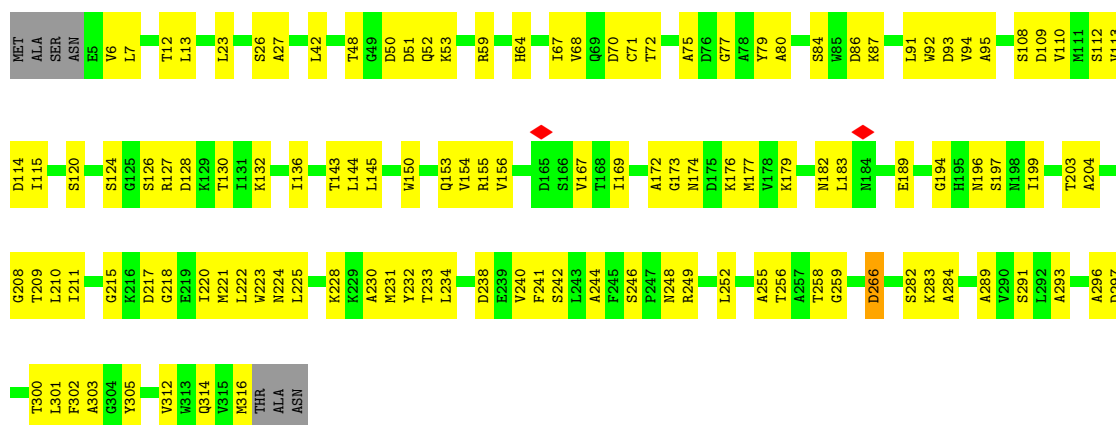
Chain fb: 



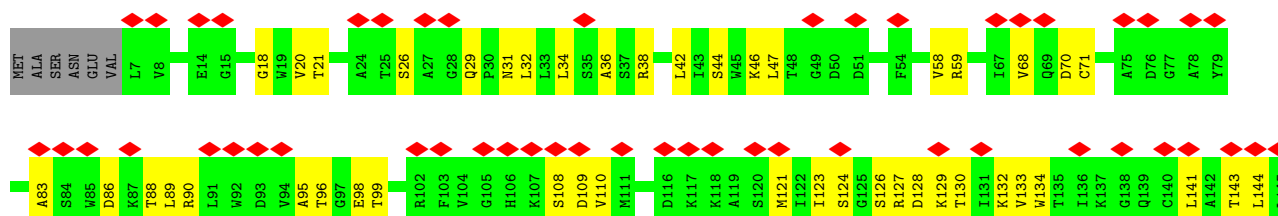
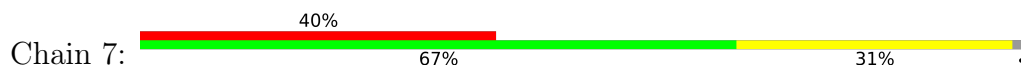
• Molecule 32: Ubiquitin-40S ribosomal protein S31

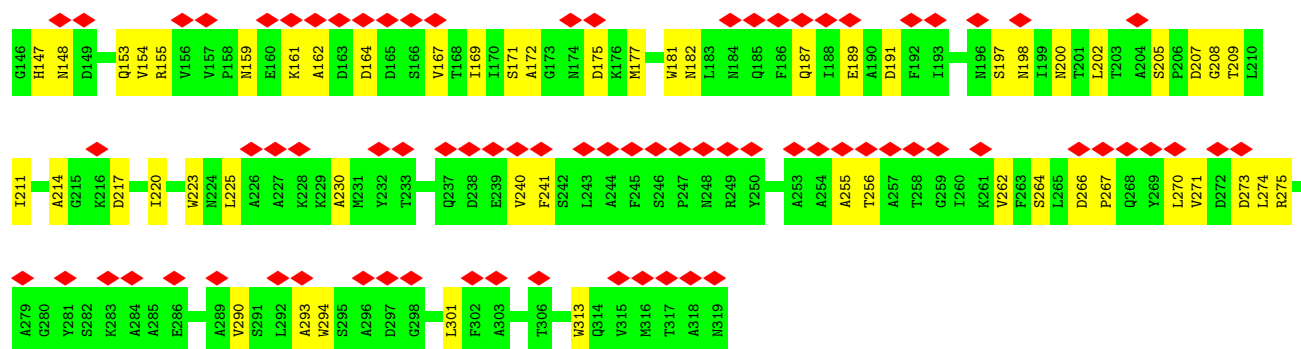


• Molecule 33: Guanine nucleotide-binding protein subunit beta-like protein

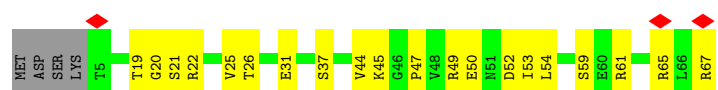


• Molecule 33: Guanine nucleotide-binding protein subunit beta-like protein

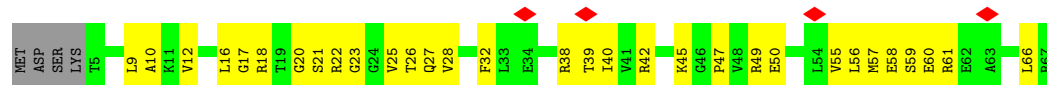




• Molecule 34: 40S ribosomal protein S28-B



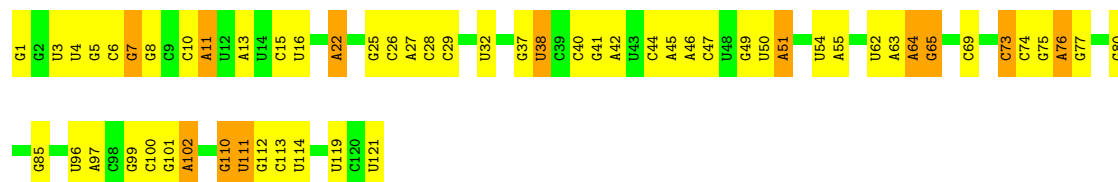
• Molecule 34: 40S ribosomal protein S28-B



• Molecule 35: 5S rRNA

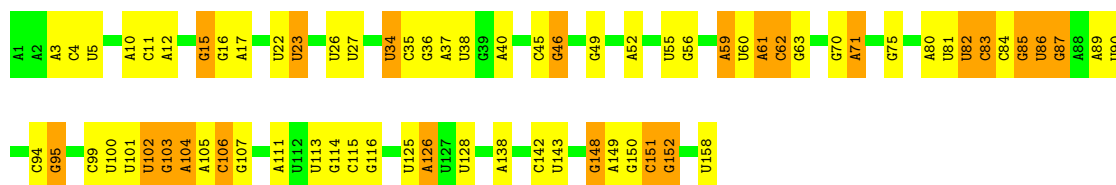


• Molecule 35: 5S rRNA



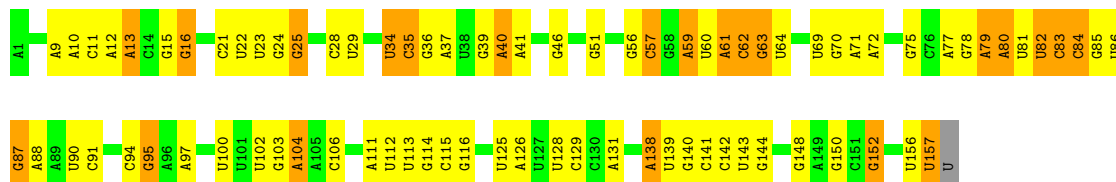
• Molecule 36: 5.8S rRNA





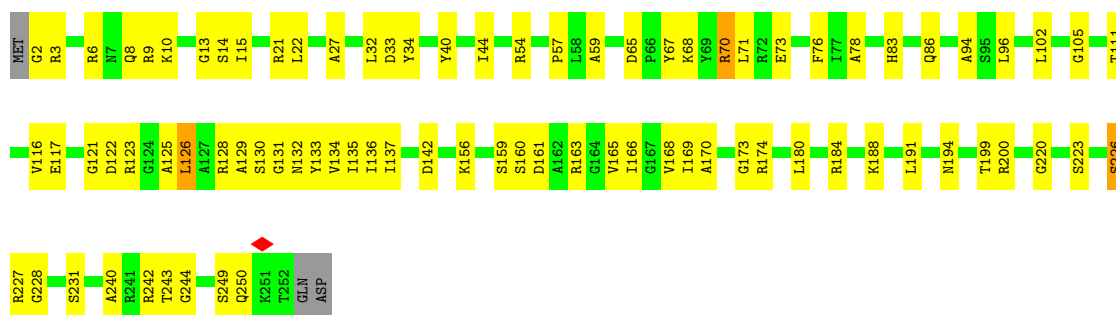
- Molecule 36: 5.8S rRNA

Chain Ca: 48% 37% 14% .



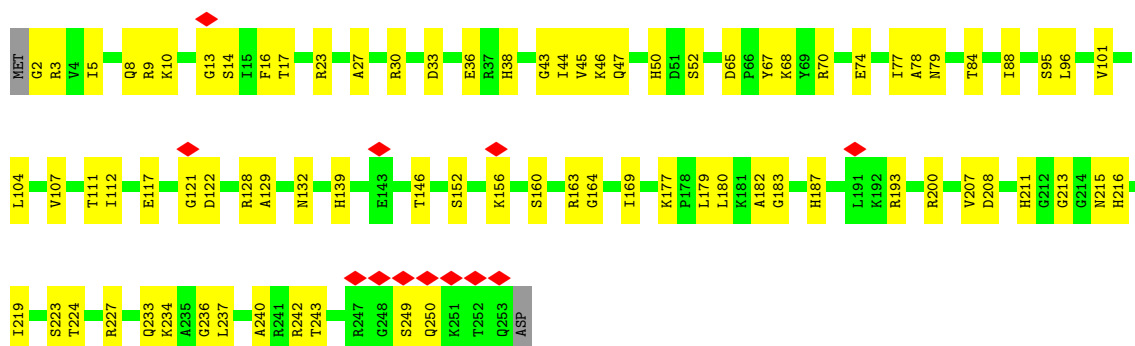
- Molecule 37: 60S ribosomal protein L2-A

Chain Ay: 66% 32% ..



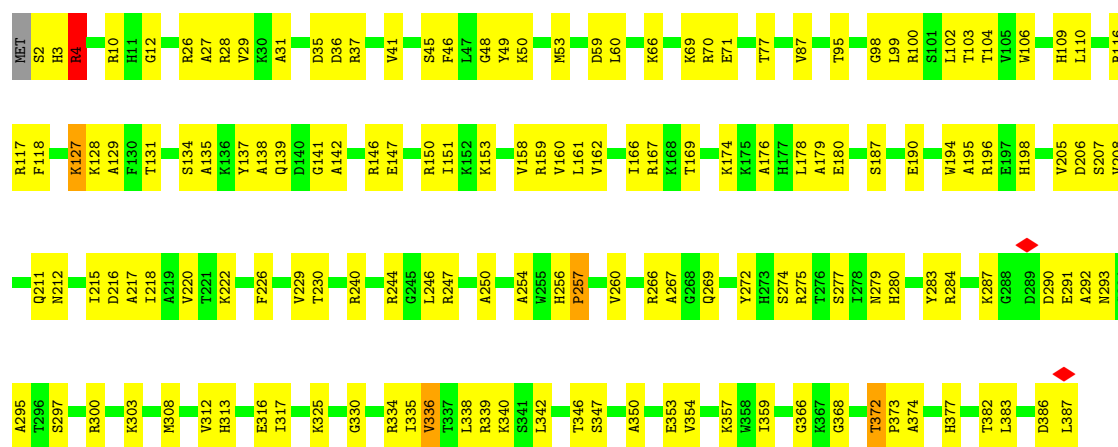
- Molecule 37: 60S ribosomal protein L2-A

Chain Da: 5% 67% 32% .

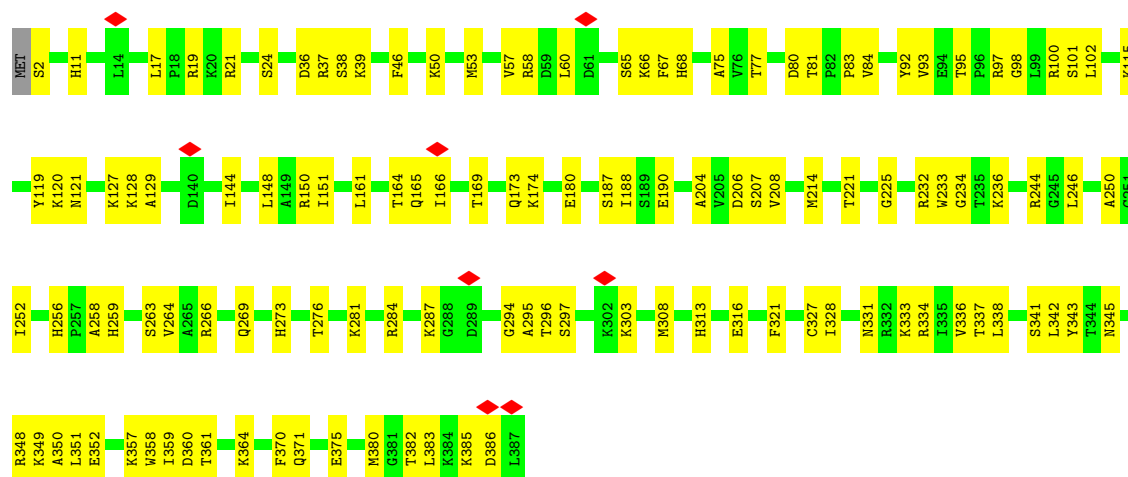


- Molecule 38: 60S ribosomal protein L3

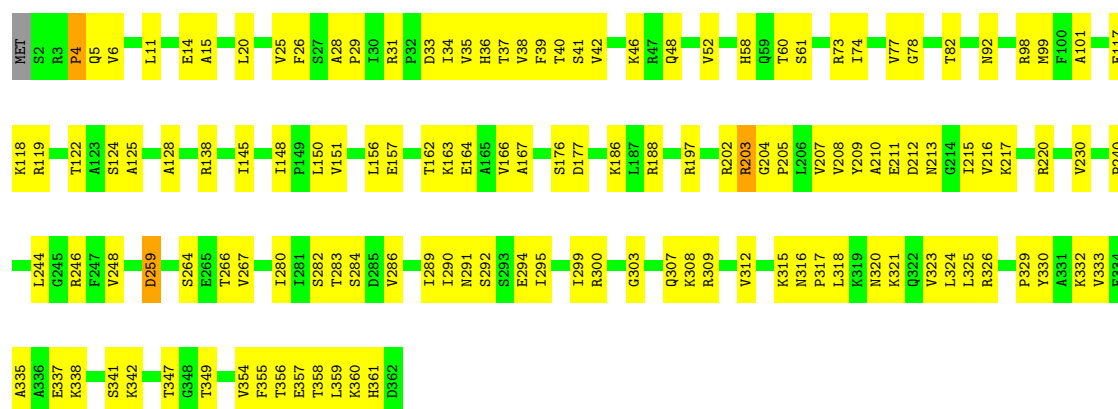
Chain By: 61% 38% .



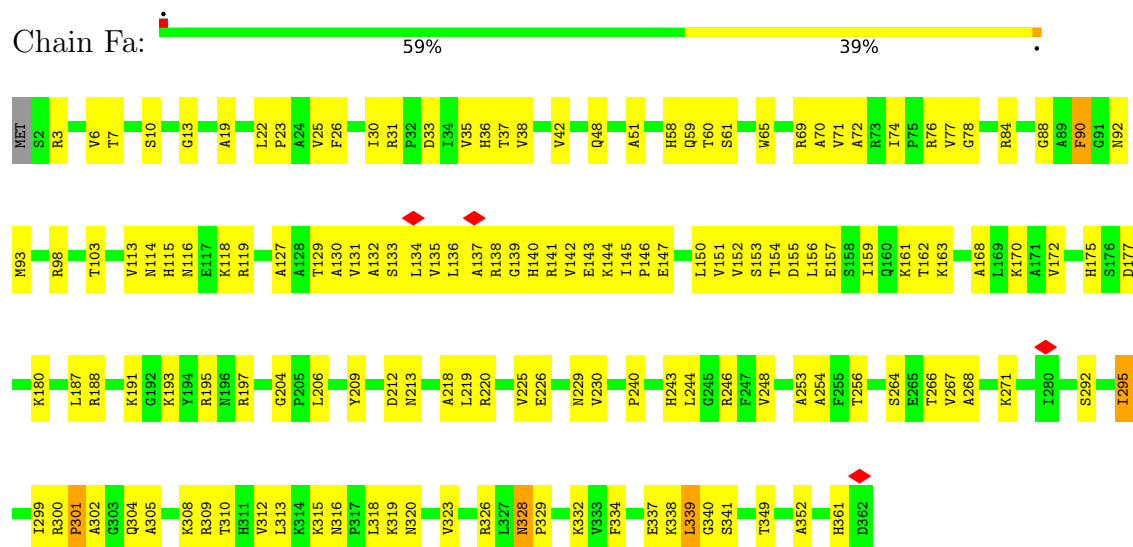
• Molecule 38: 60S ribosomal protein L3



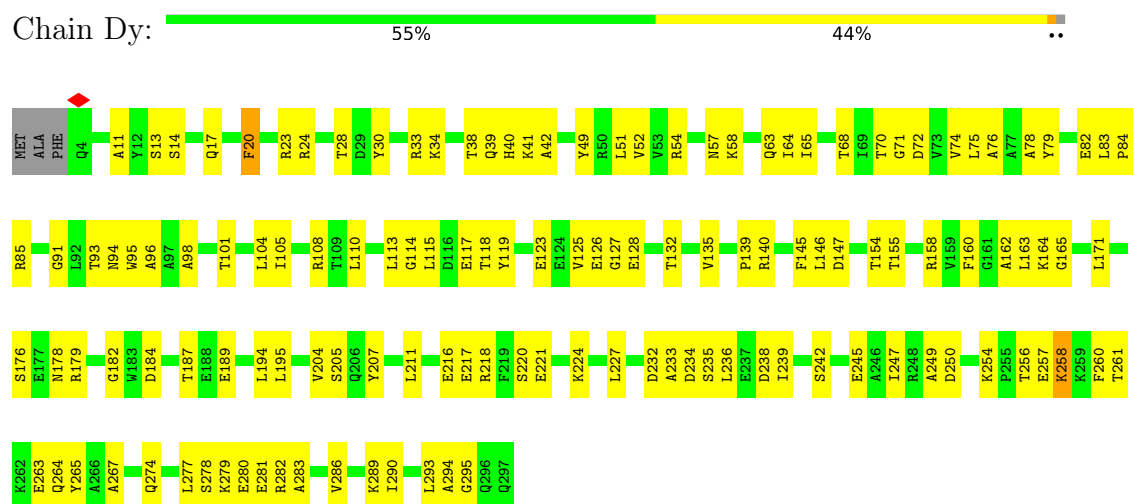
• Molecule 39: 60S ribosomal protein L4-A



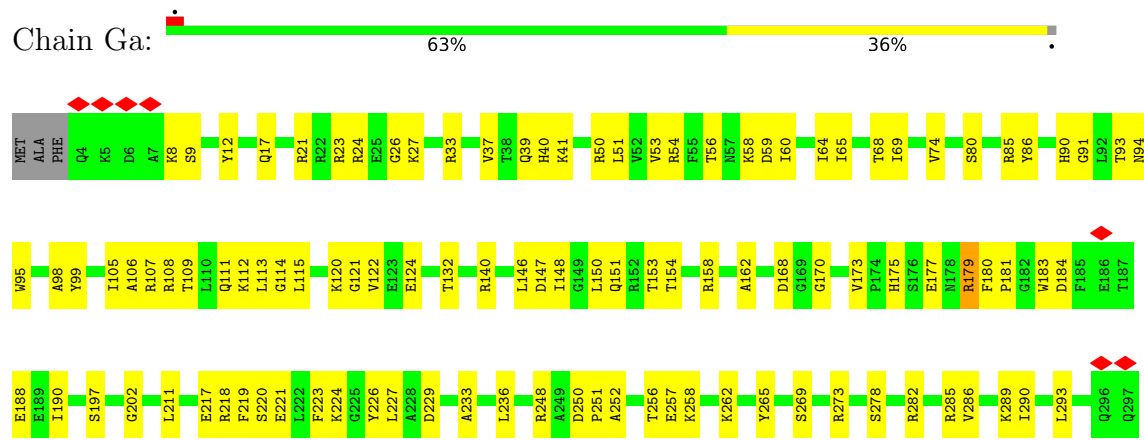
• Molecule 39: 60S ribosomal protein L4-A



• Molecule 40: 60S ribosomal protein L5

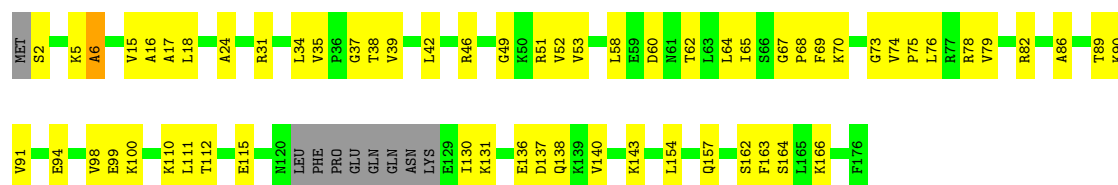


• Molecule 40: 60S ribosomal protein L5



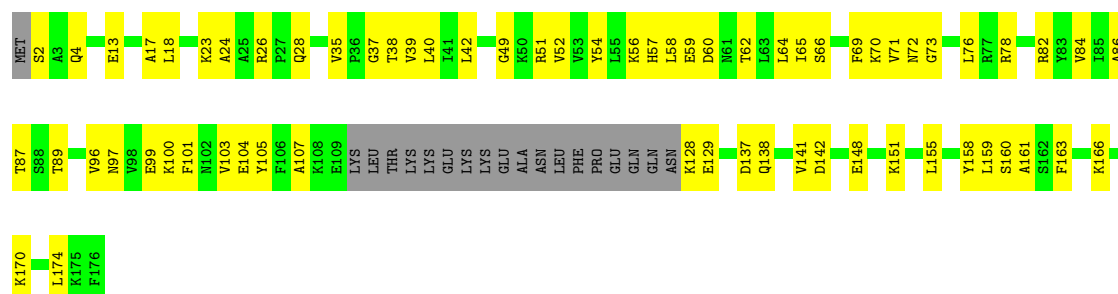
• Molecule 41: 60S ribosomal protein L6-A

Chain Ey:  60% 34% 5%



- Molecule 41: 60S ribosomal protein L6-A

Chain Ha:  52% 38% 11%



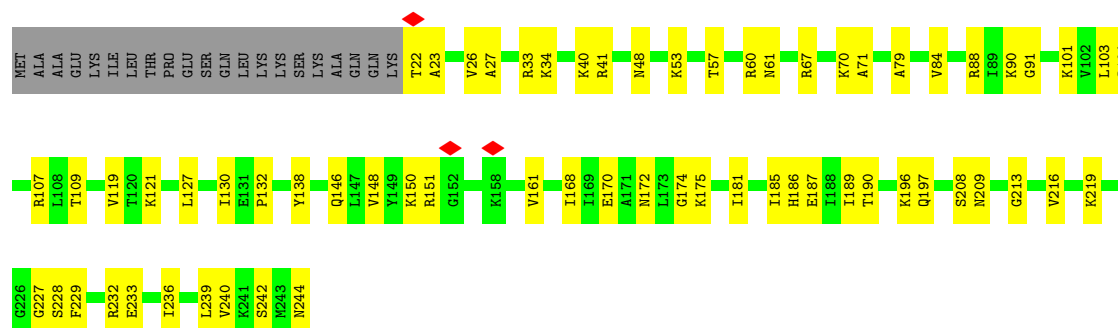
- Molecule 42: 60S ribosomal protein L7-A

Chain Fy:  64% 26% 9%



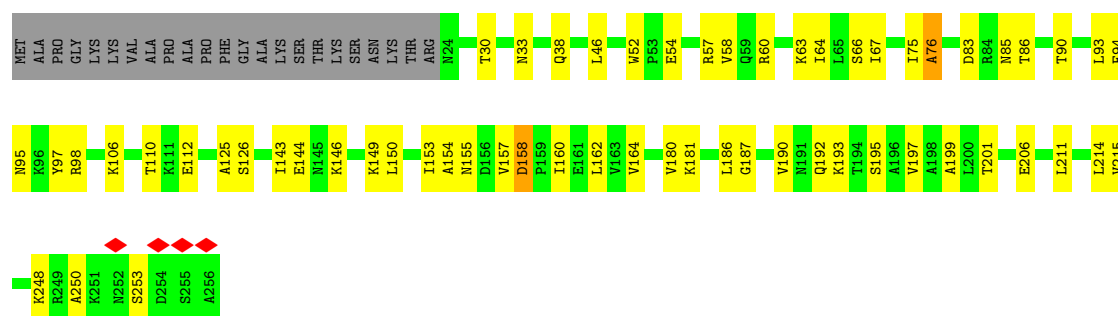
- Molecule 42: 60S ribosomal protein L7-A

Chain Ia:  64% 27% 9%



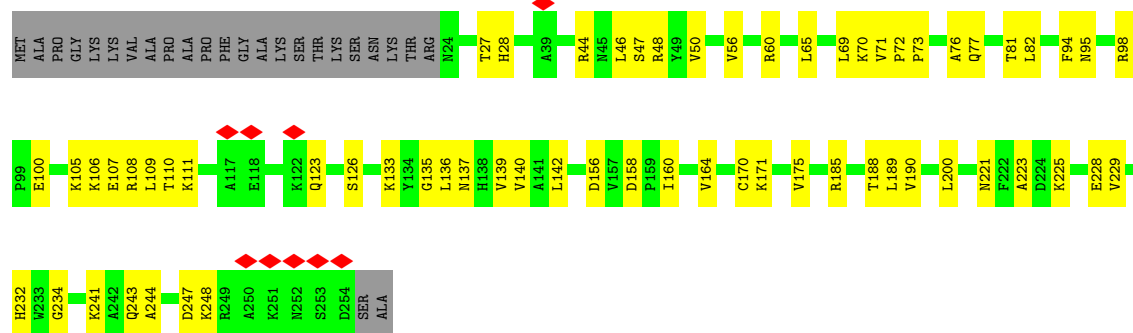
- Molecule 43: 60S ribosomal protein L8-A

Chain Gy:  68% 23% 9%



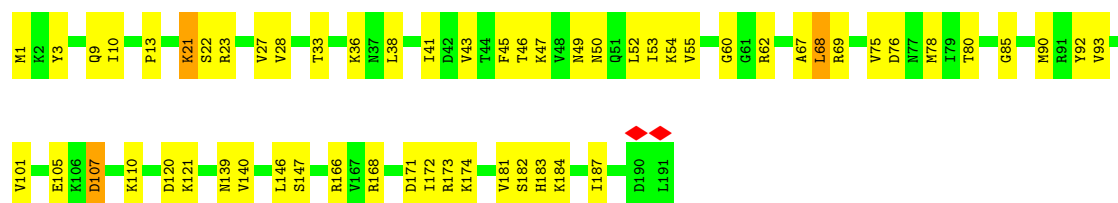
- Molecule 43: 60S ribosomal protein L8-A

Chain Ja:  66% 25% 10%



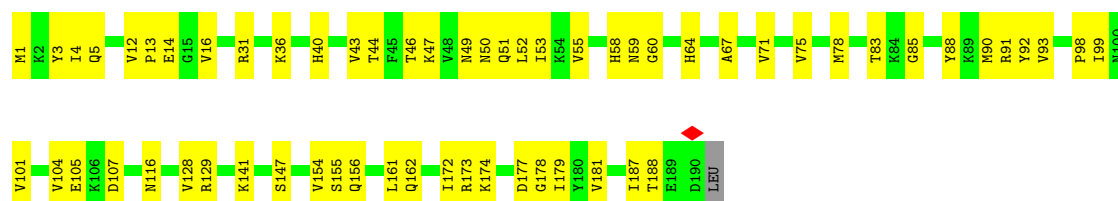
- Molecule 44: 60S ribosomal protein L9-A

Chain Hy:  70% 29% 1%

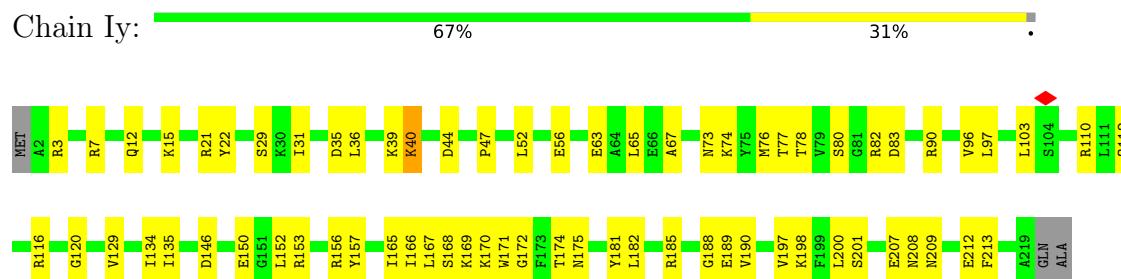


- Molecule 44: 60S ribosomal protein L9-A

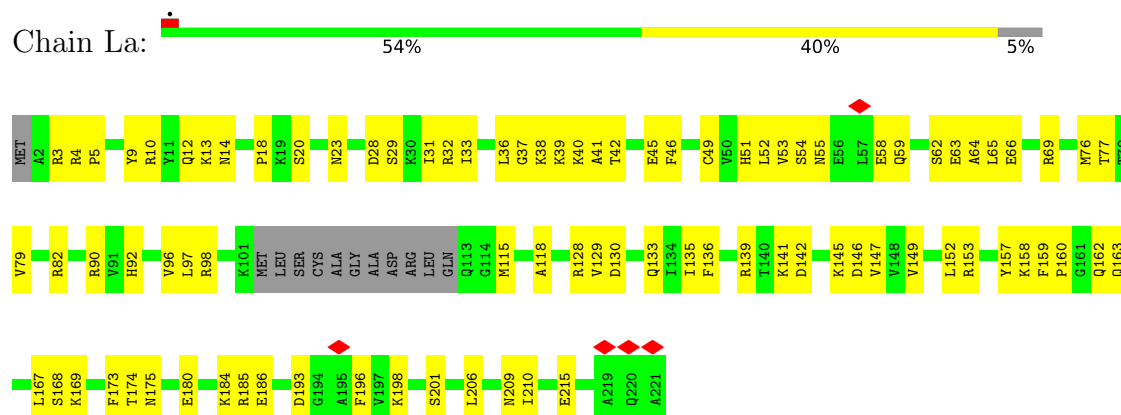
Chain Ka:  68% 32% 0%



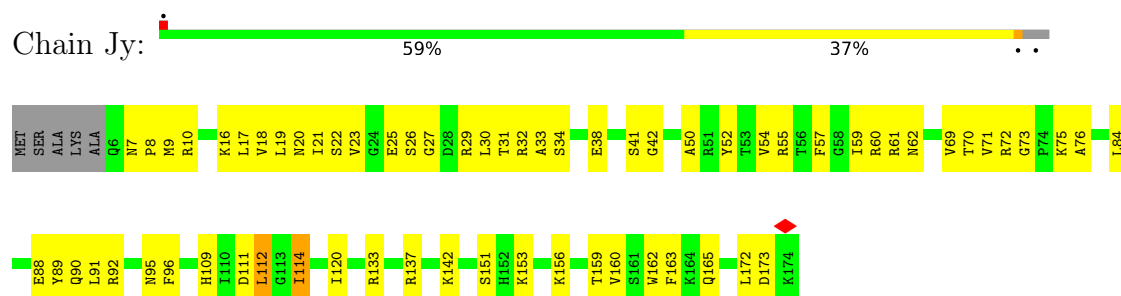
- Molecule 45: 60S ribosomal protein L10



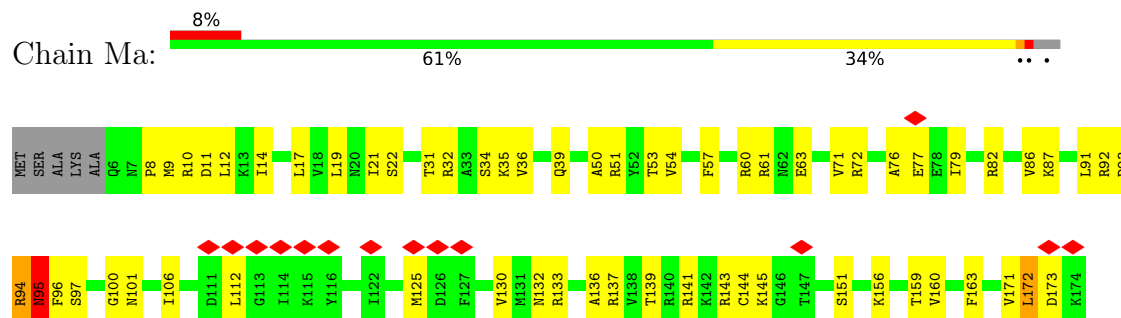
- Molecule 45: 60S ribosomal protein L10



- Molecule 46: 60S ribosomal protein L11-A

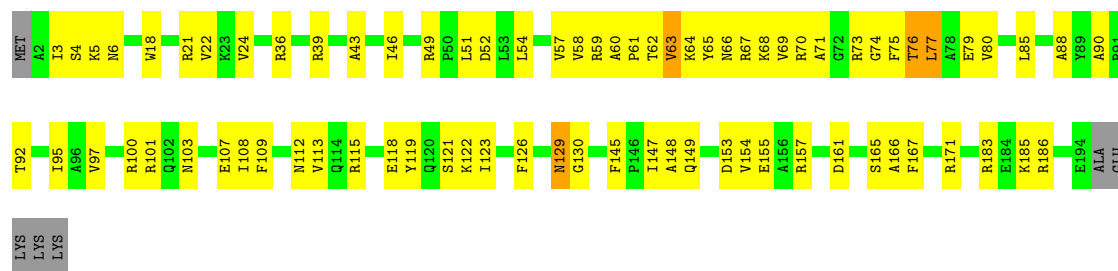


- Molecule 46: 60S ribosomal protein L11-A

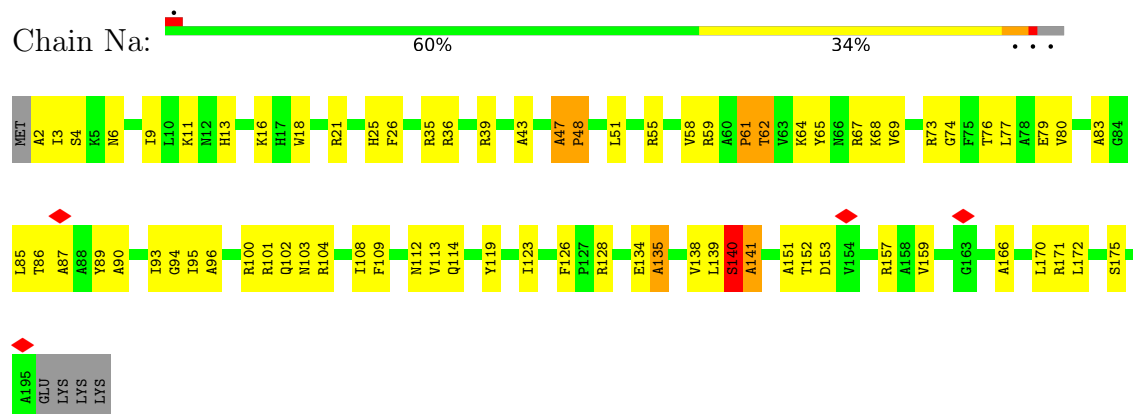


- Molecule 47: 60S ribosomal protein L13-A

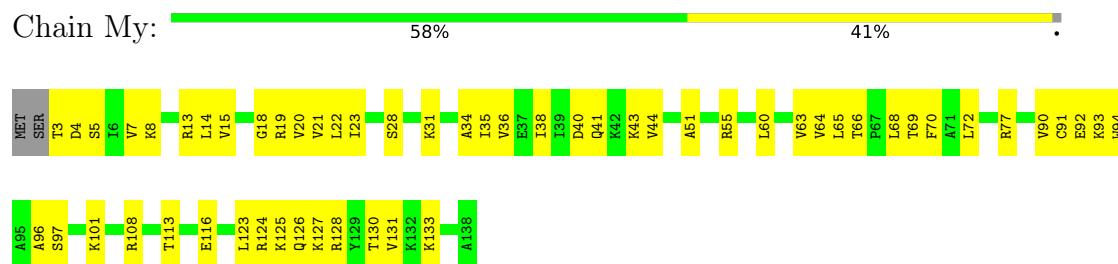




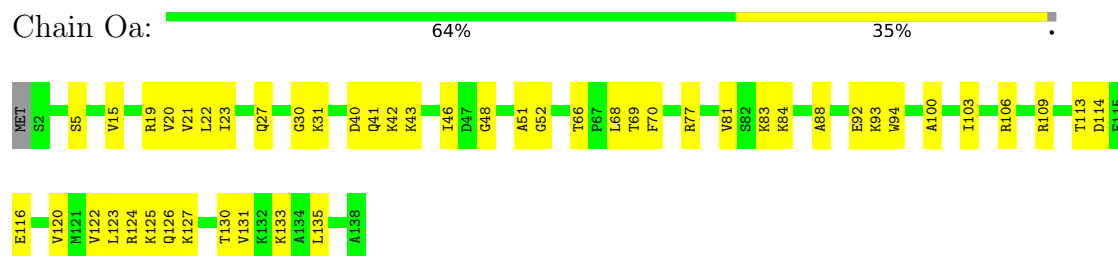
• Molecule 47: 60S ribosomal protein L13-A



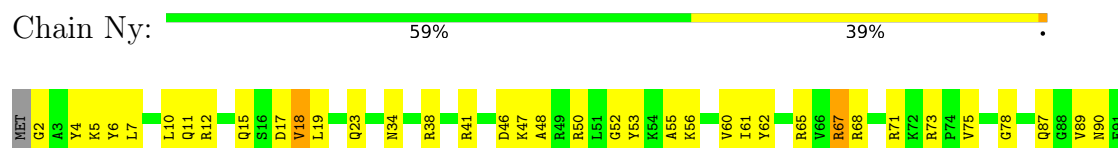
• Molecule 48: 60S ribosomal protein L14-A



• Molecule 48: 60S ribosomal protein L14-A

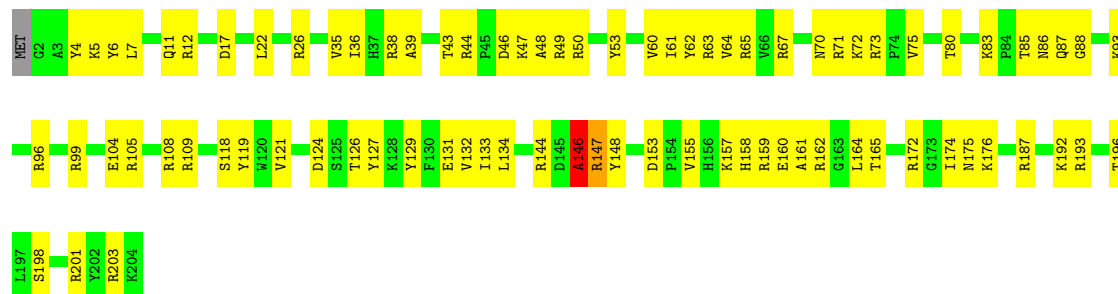


• Molecule 49: 60S ribosomal protein L15-A

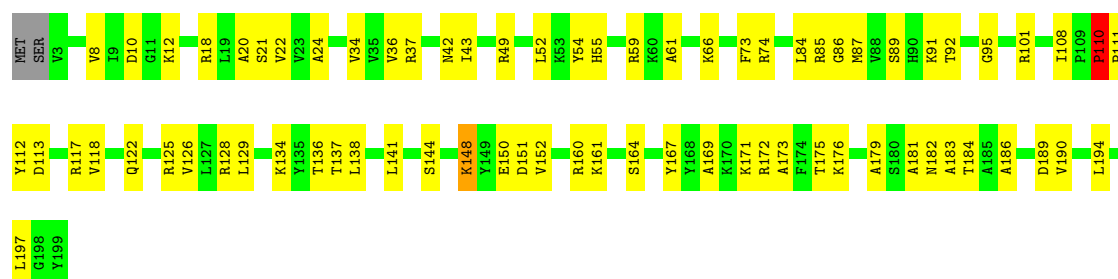




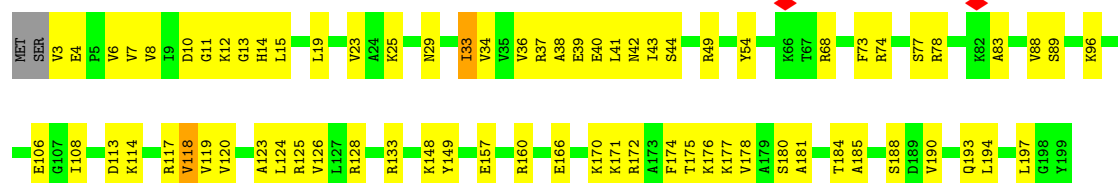
- Molecule 49: 60S ribosomal protein L15-A



- Molecule 50: 60S ribosomal protein L16-A



- Molecule 50: 60S ribosomal protein L16-A



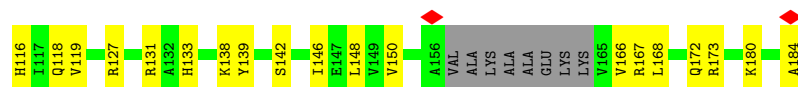
- Molecule 51: 60S ribosomal protein L17-A





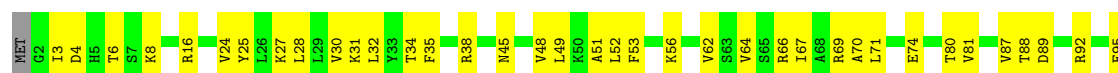
- Molecule 51: 60S ribosomal protein L17-A

Chain A: 66% 29% 5%



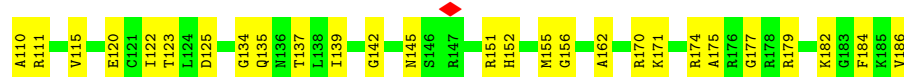
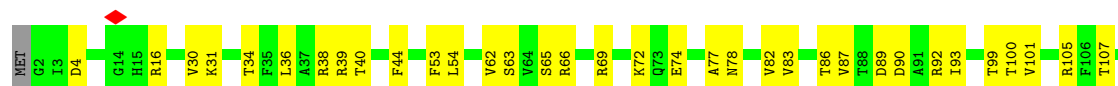
- Molecule 52: 60S ribosomal protein L18-A

Chain Qy: 63% 36%



- Molecule 52: 60S ribosomal protein L18-A

Chain B: 67% 33%



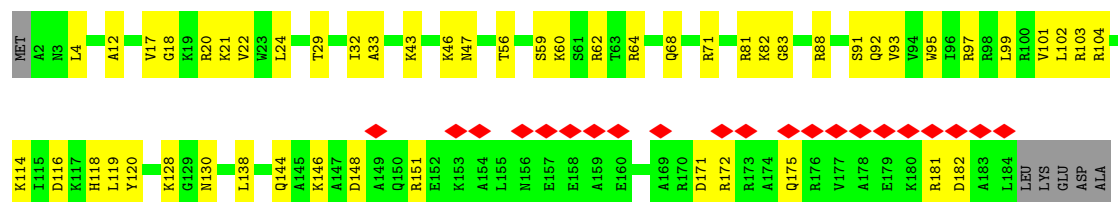
- Molecule 53: 60S ribosomal protein L19-A

Chain Ry: 75% 23%



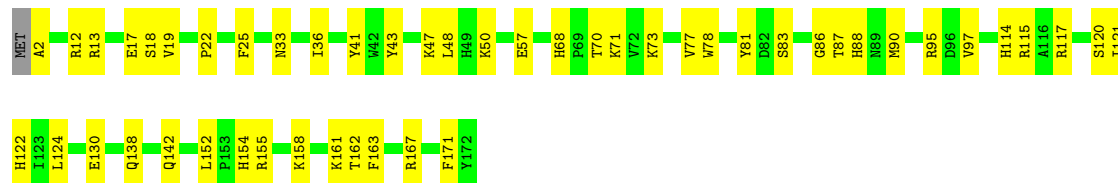
- Molecule 53: 60S ribosomal protein L19-A

Chain C: 11% 69% 28%



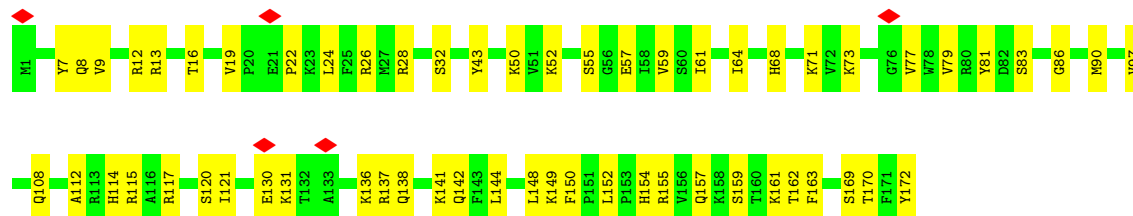
- Molecule 54: 60S ribosomal protein L20-A

Chain Sy: 71% 28%



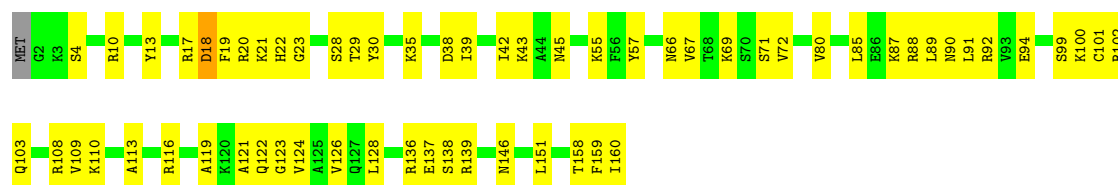
- Molecule 54: 60S ribosomal protein L20-A

Chain D: 66% 34%



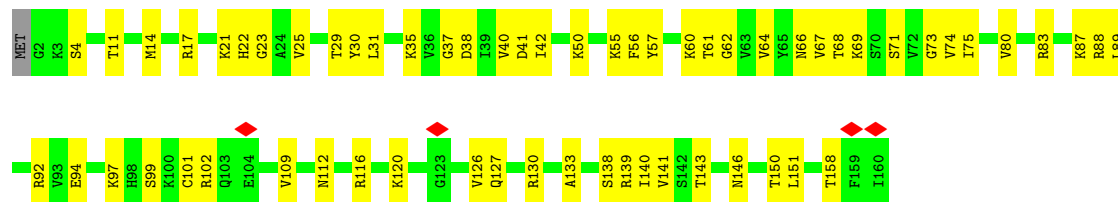
- Molecule 55: 60S ribosomal protein L21-A

Chain Ty: 61% 38%



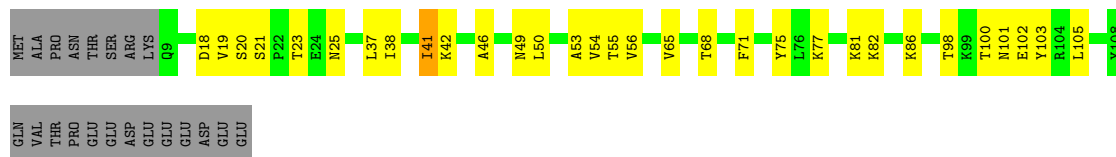
- Molecule 55: 60S ribosomal protein L21-A

Chain E: 61% 38%



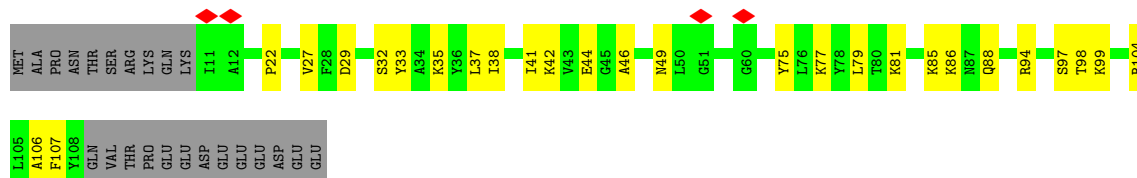
- Molecule 56: 60S ribosomal protein L22-A

Chain Uy:  57% 25% 17%



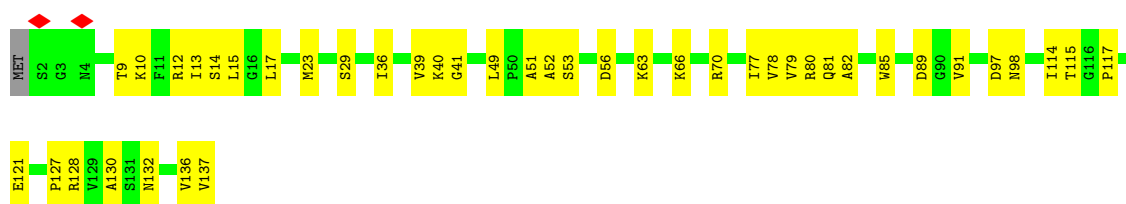
- Molecule 56: 60S ribosomal protein L22-A

Chain F:  59% 22% 19%



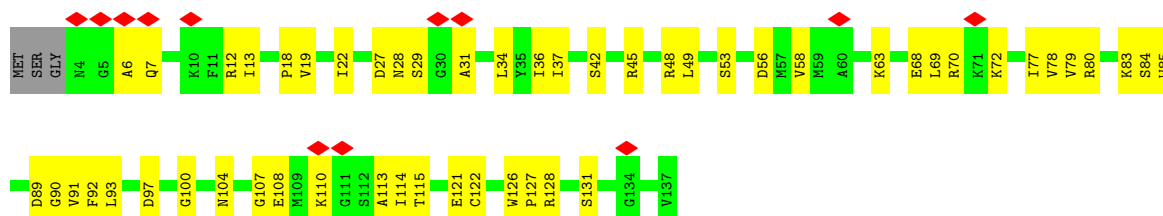
- Molecule 57: 60S ribosomal protein L23-A

Chain Vy:  69% 31%



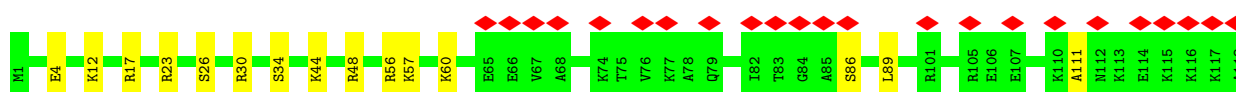
- Molecule 57: 60S ribosomal protein L23-A

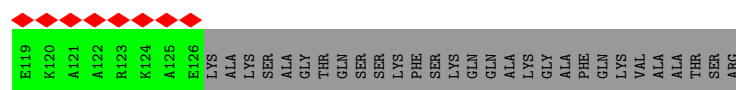
Chain G:  9% 59% 39%



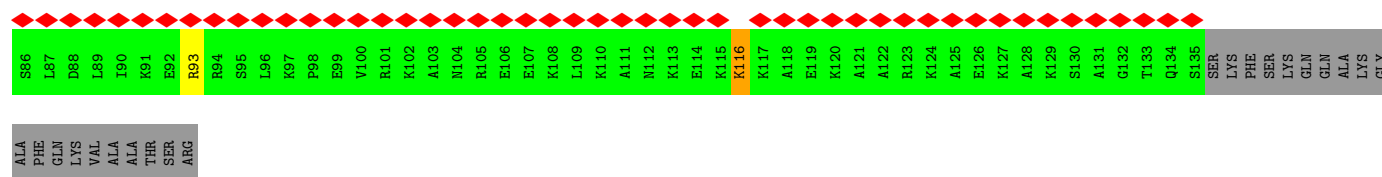
- Molecule 58: 60S ribosomal protein L24-A

Chain Wy:  20% 72% 10% 19%

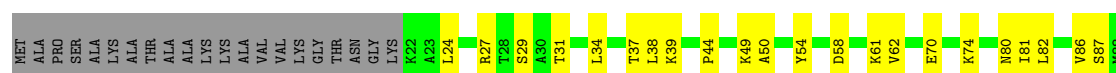




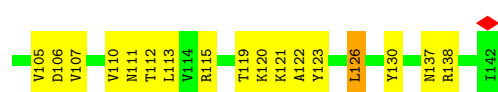
• Molecule 58: 60S ribosomal protein L24-A



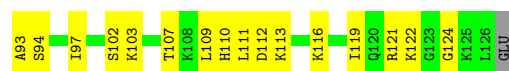
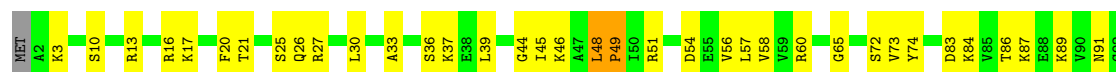
• Molecule 59: 60S ribosomal protein L25



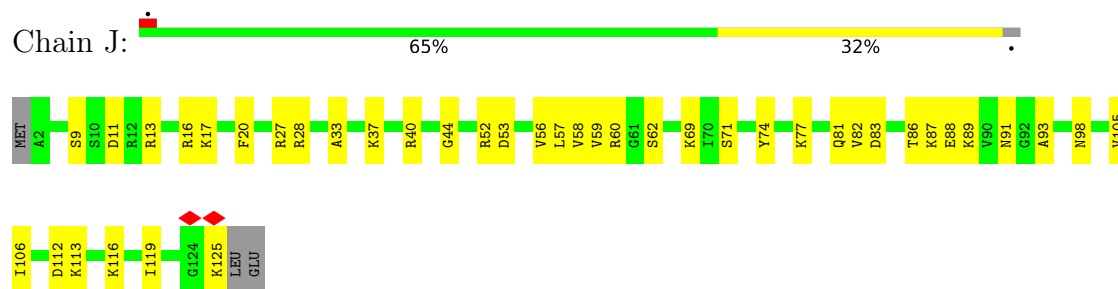
• Molecule 59: 60S ribosomal protein L25



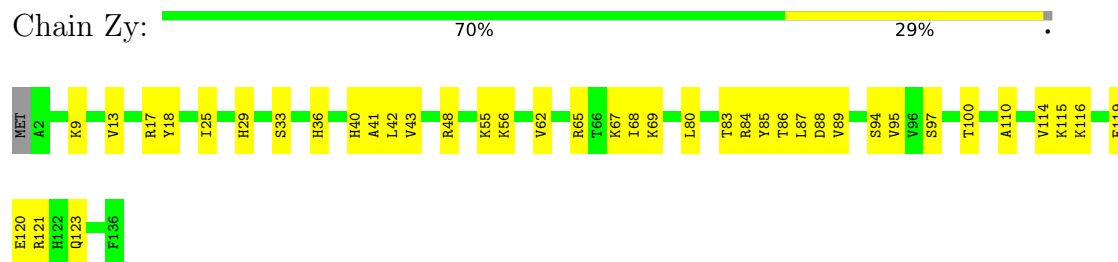
• Molecule 60: 60S ribosomal protein L26-A



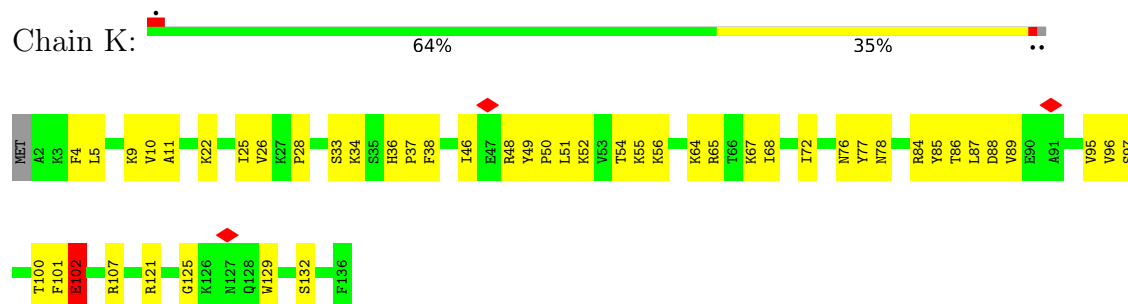
• Molecule 60: 60S ribosomal protein L26-A



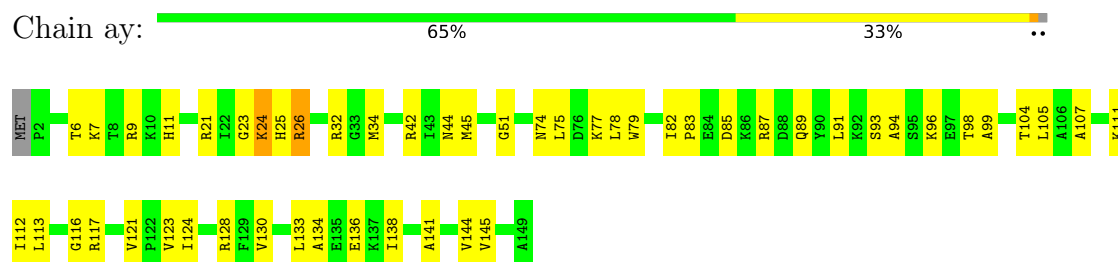
- Molecule 61: 60S ribosomal protein L27-A



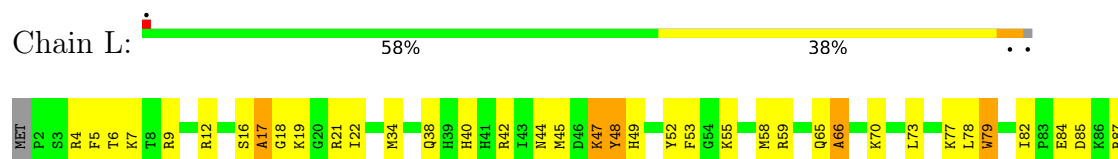
- Molecule 61: 60S ribosomal protein L27-A



- Molecule 62: 60S ribosomal protein L28



- Molecule 62: 60S ribosomal protein L28

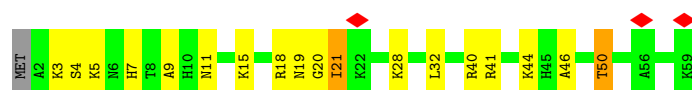




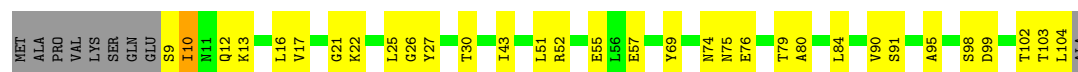
- Molecule 63: 60S ribosomal protein L29



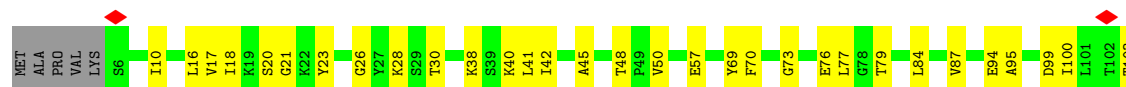
- Molecule 63: 60S ribosomal protein L29



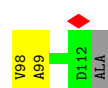
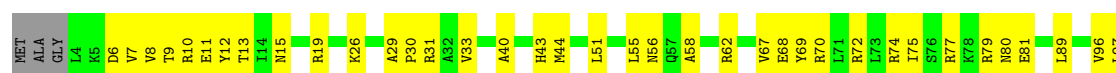
- Molecule 64: 60S ribosomal protein L30



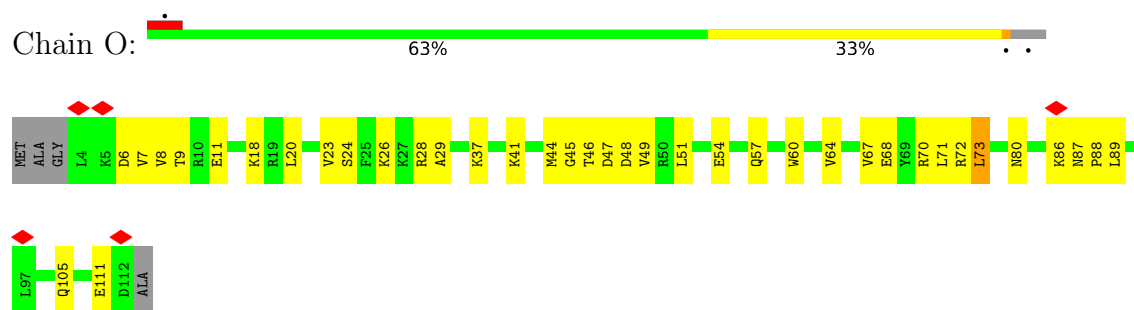
- Molecule 64: 60S ribosomal protein L30



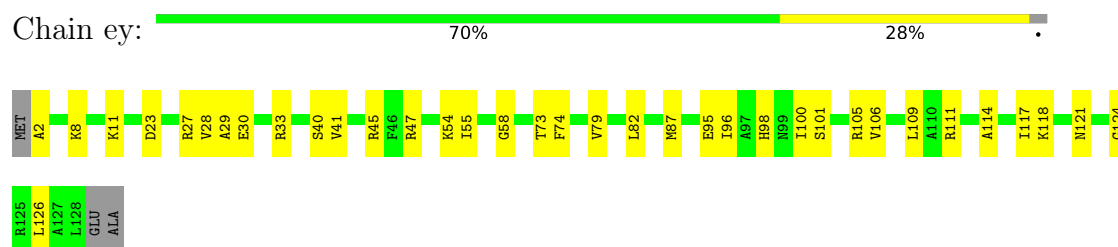
- Molecule 65: 60S ribosomal protein L31-A



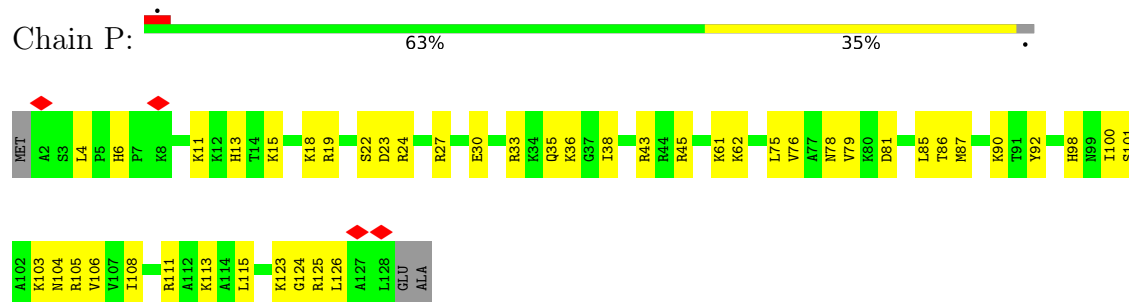
- Molecule 65: 60S ribosomal protein L31-A



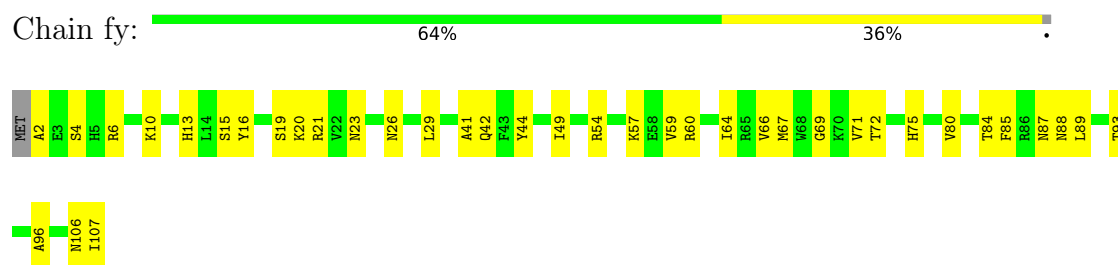
- Molecule 66: 60S ribosomal protein L32



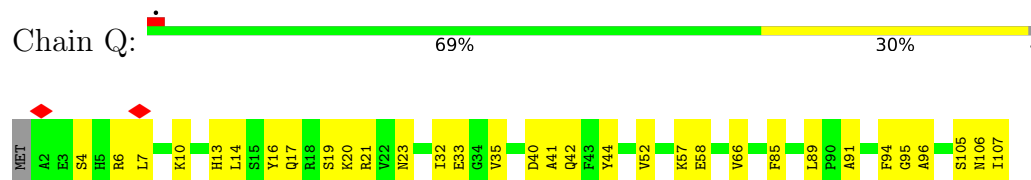
- Molecule 66: 60S ribosomal protein L32



- Molecule 67: 60S ribosomal protein L33-A

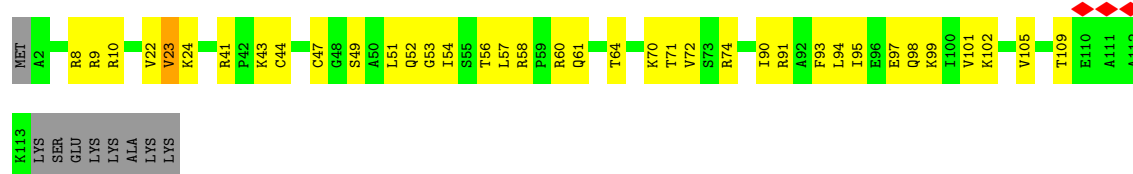


- Molecule 67: 60S ribosomal protein L33-A



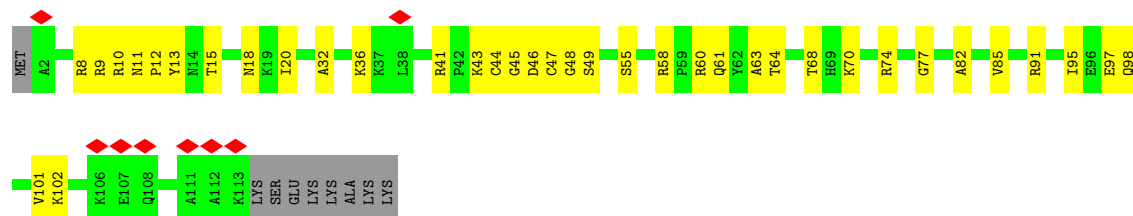
- Molecule 68: 60S ribosomal protein L34-A

Chain gy:  62% 30% 7%



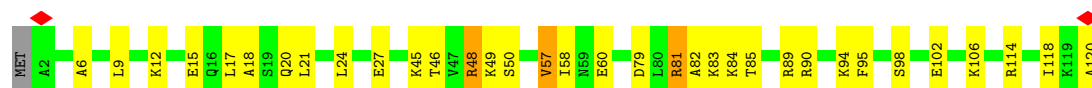
- Molecule 68: 60S ribosomal protein L34-A

Chain R:  7% 62% 31% 7%



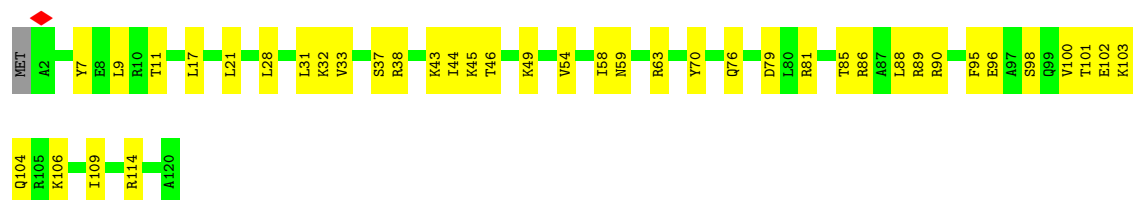
- Molecule 69: 60S ribosomal protein L35-A

Chain hb:  71% 26% 2%



- Molecule 69: 60S ribosomal protein L35-A

Chain S:  66% 33% 1%



- Molecule 70: 60S ribosomal protein L36-A

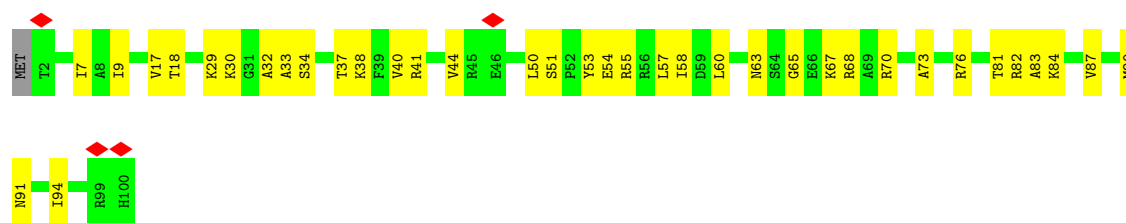
Chain ib:  68% 31% 1%



- Molecule 70: 60S ribosomal protein L36-A

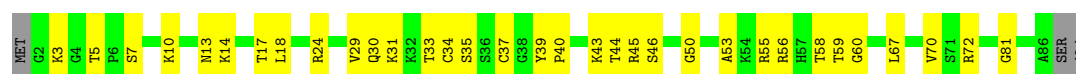
Chain T:  62% 37% 1%





- Molecule 71: 60S ribosomal protein L37-A

Chain jb: .



- Molecule 71: 60S ribosomal protein L37-A

Chain U: .



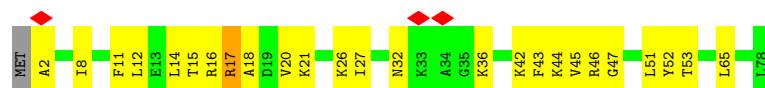
- Molecule 72: 60S ribosomal protein L38

Chain kb: .



- Molecule 72: 60S ribosomal protein L38

Chain V: ..



- Molecule 73: 60S ribosomal protein L39

Chain lb: .

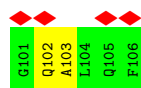


- Molecule 73: 60S ribosomal protein L39

Chain W: .



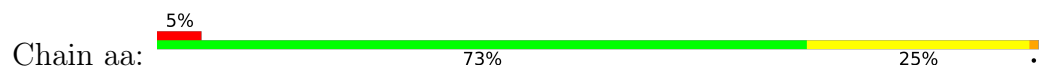
- | NET |
|-----|
| V2 |
| N3 |
| V4 |
| T7 |
| C12 |
| K13 |
| T16 |
| C17 |
| R18 |
| K19 |
| Q22 |
| H23 |
| K24 |
| G31 |
| K32 |
| F36 |
| A37 |
| Q38 |
| R41 |
| R42 |
| R45 |
| G51 |
| T54 |
| K67 |
| V68 |
| V69 |
| E73 |
| G74 |
| V75 |
| K76 |
| C77 |
| K78 |
| T79 |
| R80 |
| L83 |
| T84 |
| L85 |
| C88 |
| K89 |
| G94 |
| K98 |
| Q99 |



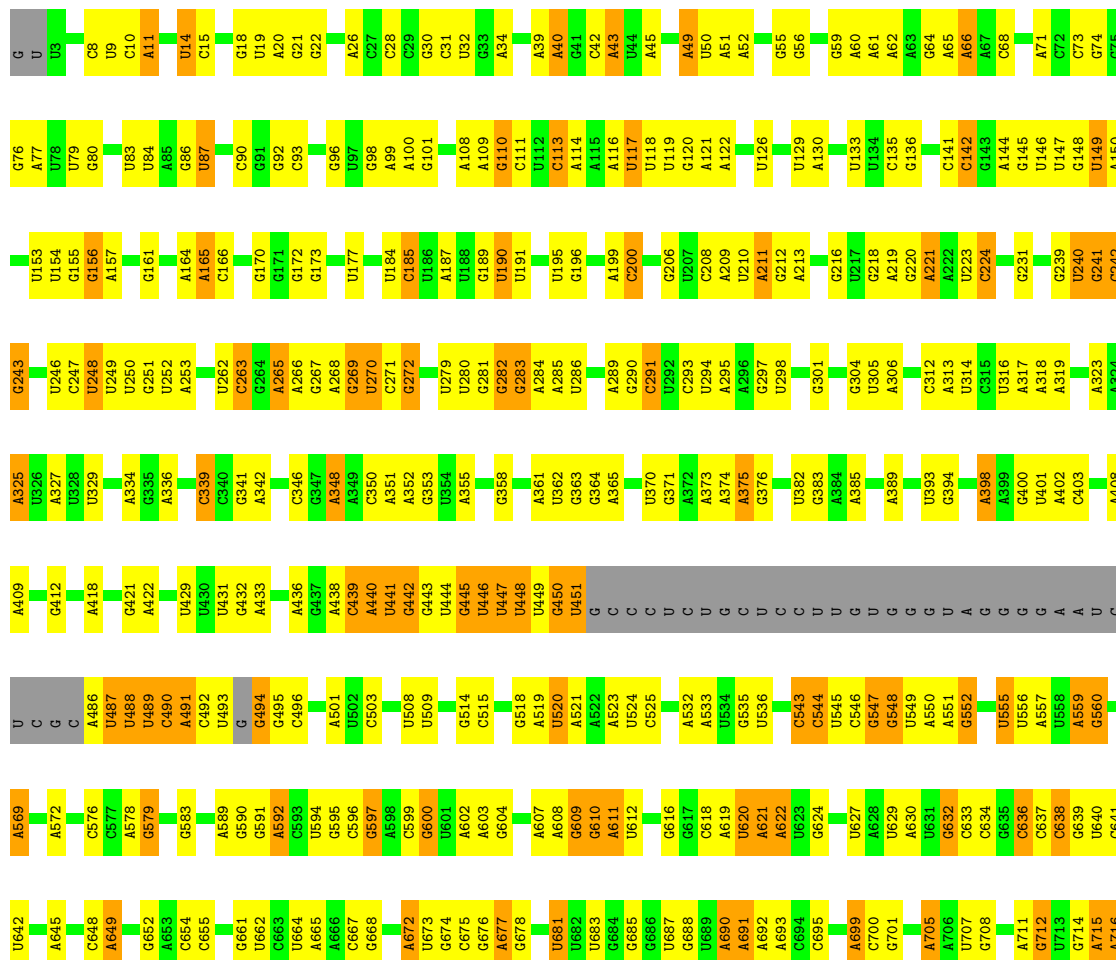
- Molecule 77: 60S ribosomal protein L43-A



- Molecule 77: 60S ribosomal protein L43-A

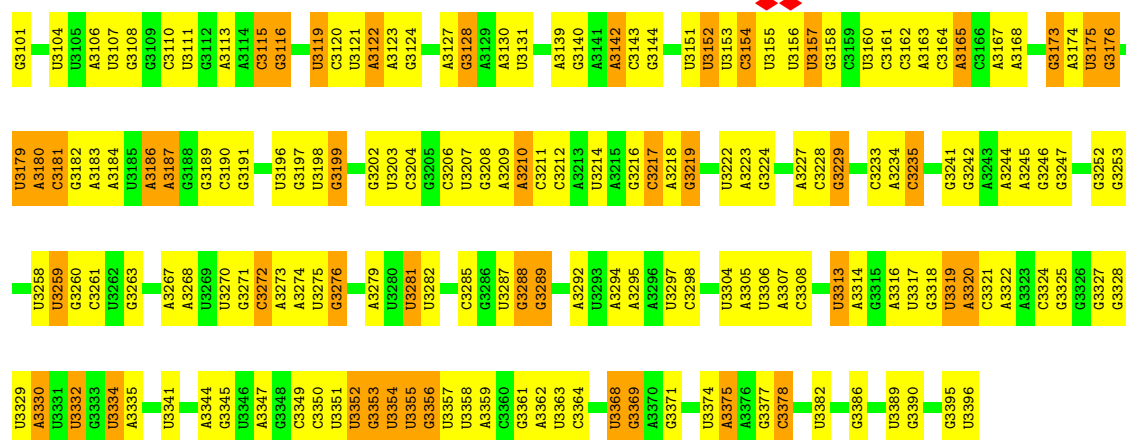


- Molecule 78: 25S rRNA

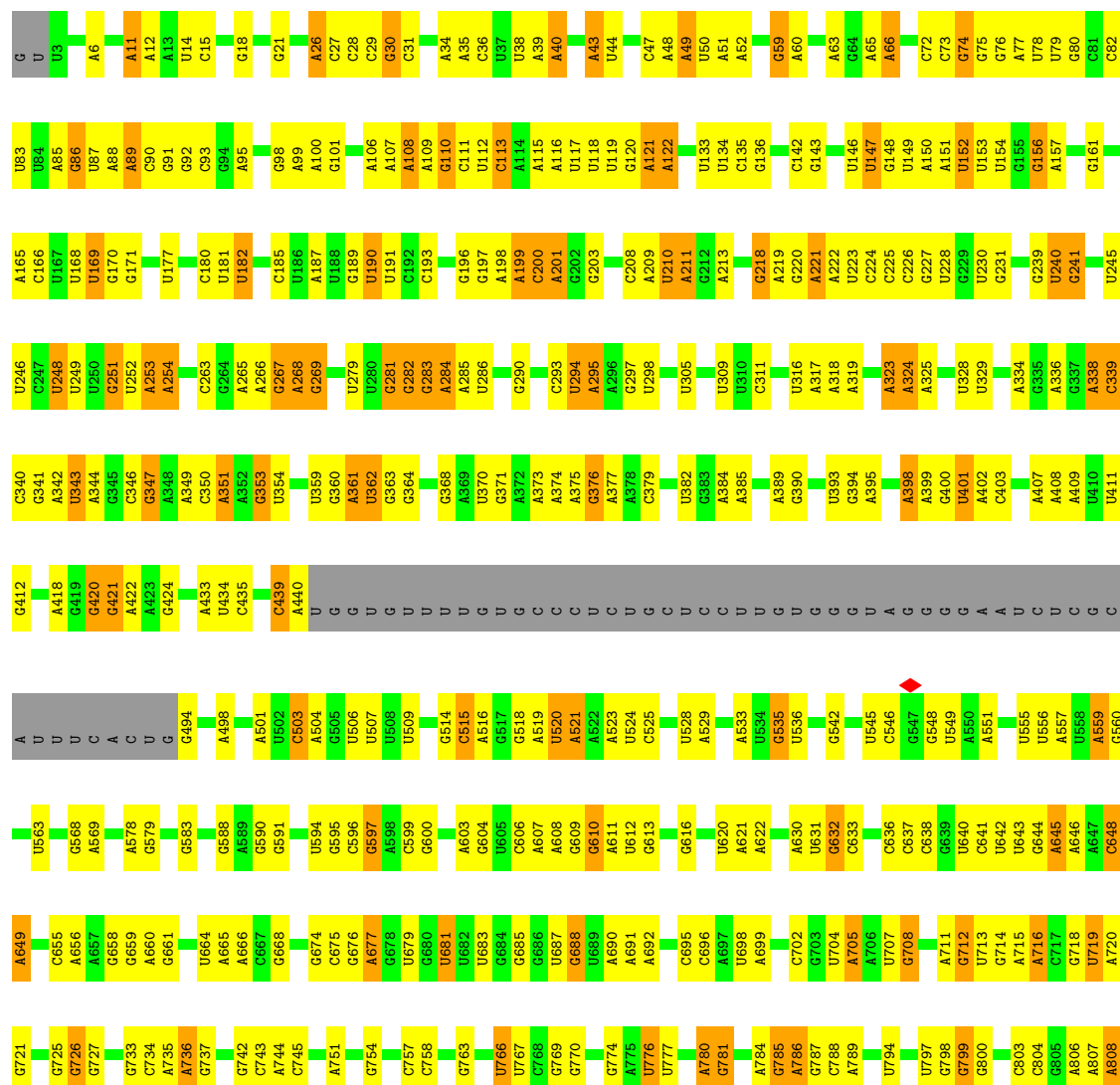


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G1796	U1720	U1630	G1481	U1384	G1150	U1051	A980	U899	A816	G718
A1797	U1721	A1559	A1482	C1386	U1151	A1052	C982	G900	U1052	U719
A1798	U1722	A1632	G1483	C1388	G1152	A1053	A983	G901	A817	A720
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G1808	A1729	U1636	A1489	C1393	C1155	A1063	U988	G908	G823	G733
A1809	G1730	A1637	A1490	A1393	U1156	A1064	U989	G909	A1064	G734
A1810	A1731	A1566	A1491	A1399	G1157	A1065	U990	G910	U825	A735
G1811	U1732	U1567	G1492	G1400	A1158	G1069	G991	C911	G736	A736
G1812		U1568	G1493	G1401	A1159	U1070	A992	G912	A830	G737
A1813	G1736	U1569	U1494	G1404	C1160	U1071	G993	A913	G831	
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A1816	U1739	C1497	C1498	G1411	U1167	U1074	A996	G916	U834	G742
G1817	U1740	C1499	C1499	G1416	G1171	A1079	G999	A917	G835	C743
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U1819	U1742	G1576	G1501	G1422	G1175	U1082	G1001	G922	A837	
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G1835	U1753	A1589	G1525	U1436	U1188	U1096	G854	G937	U852	U767
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U1840	U1755	A1594	U1529	U1437	A1190	A1098	G856	U939	G856	G770
A1841	G1756	A1595	U1530	G1437	U1191	A1099	G857		A771	
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C3039	C2948	U2861		U2717	G2633	U2541					C
A3040			G2794	U2718	U2634	U2542	A2402	U2205			G
U3041	U2953	C2867	U2795	U2719	U2635	U2543	G2403	G2206			C
U3042	U2954	U2868	G2796	G2720	A2635	U2544	A2404	U2102			A
		U2869		A2721	A2636		C2405	G2103			C
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G3059			G2728	A2728	G2645	U2552		G2114			G
C3060	U2882	U2882	U2805	U2729		A2553		G2115			A
G3061	U2883	U2883	U2806			A2554					U
				A2736	U2652	G2555	G2418	A2107			C
U3066	A2887	U2887	U2807	U2744	C2653		A2419	G2111			G
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C3072	G2894	C2894	G2815	G2745	C2664	C2568		A2131			C
A3073	G2895	G2895	G2816	A2746	U2665	U2570	A2432	G2136			U
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A3077	C2899	C2899	A2820	U2750	G2672	G2574	G2437				U
U3078	U2900	U2900	C2821	G2754	A2673	A2580	A2438	A2142			U
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			C2825	U2757	G2677		C2444				C
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	A3008	U2915	C2836	U2765	C2682	G2589	A2449	G2272			G
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U3090	U3010		U2838			G2592	U2508	A2158			C
A3091	A3011	U2923	A2839	U2767	A2686		G2451				U
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C3099	U3023				U2521	G2607	U2521	G2177			C
					G2522		A2523	G2284			U
U3100	A3024	A2934	U2846		A2524						G

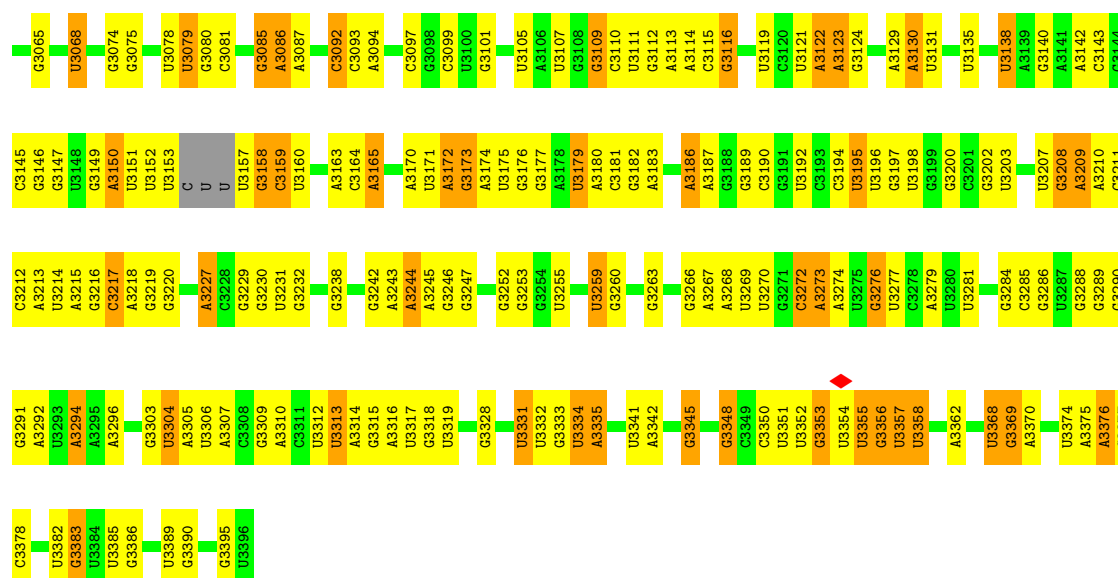


Molecule 78: 25S rRNA









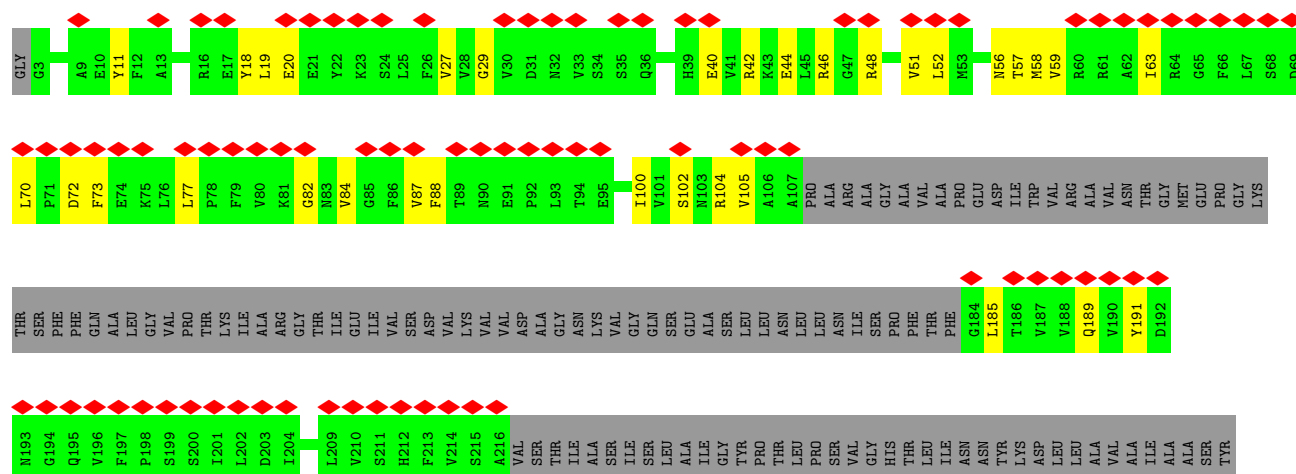
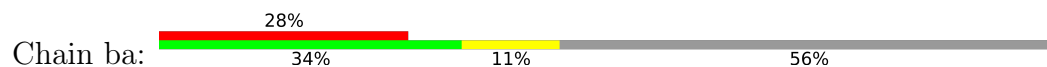
• Molecule 79: tRNA



• Molecule 79: tRNA



• Molecule 80: 60S acidic ribosomal protein P0



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

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	19459	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	2.5	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	0.335	Depositor
Minimum map value	-0.031	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.010	Depositor
Recommended contour level	0.02	Depositor
Map size (Å)	574.52, 574.52, 574.52	wwPDB
Map dimensions	530, 530, 530	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.084, 1.084, 1.084	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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	2b	0.86	0/42211	0.68	10/65773 (0.0%)
1	a	0.58	12/41891 (0.0%)	0.49	6/65273 (0.0%)
2	Ab	0.80	0/1644	0.68	0/2249
2	b	0.39	0/1623	0.68	2/2222 (0.1%)
3	Ba	0.92	1/1823 (0.1%)	0.80	2/2447 (0.1%)
3	c	0.38	1/1748 (0.1%)	0.62	0/2352
4	Pb	0.71	0/936	0.66	0/1259
4	q	0.31	0/959	0.66	0/1288
5	Cb	1.05	1/1656 (0.1%)	0.78	0/2251
5	d	0.43	0/1665	0.60	0/2263
6	Db	0.78	0/1754	0.66	0/2361
6	e	0.35	0/1759	0.60	0/2368
7	Eb	0.93	0/2097	0.78	1/2823 (0.0%)
7	f	0.38	0/2109	0.62	0/2839
8	Fb	0.82	0/1625	0.69	0/2197
8	g	0.37	0/1629	0.61	1/2202 (0.0%)
9	Gb	0.71	0/1839	0.76	1/2460 (0.0%)
9	h	0.37	0/1779	0.64	0/2379
10	Hb	0.76	0/1498	0.68	0/2019
10	i	0.34	0/1511	0.62	0/2036
11	Ib	1.01	1/1501 (0.1%)	0.82	2/2006 (0.1%)
11	j	0.42	0/1514	0.63	0/2021
12	Jb	0.90	1/1504 (0.1%)	0.79	1/2016 (0.0%)
12	k	0.39	0/1519	0.62	0/2035
13	Kb	0.61	0/769	0.61	0/1039
13	l	0.30	0/757	0.68	2/1022 (0.2%)
14	Lb	1.12	0/1185	0.75	0/1598
14	m	0.40	0/1194	0.58	0/1610
15	Mb	0.45	0/883	0.80	0/1199
15	n	0.30	0/898	0.76	0/1220
16	Nb	1.12	1/1215 (0.1%)	0.80	0/1638
16	o	0.46	0/1215	0.67	1/1638 (0.1%)
17	Ob	1.00	0/937	0.84	0/1261
17	p	0.43	0/960	0.68	0/1290

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
18	Qb	0.88	0/1125	0.72	0/1510
18	r	0.38	0/1125	0.71	0/1510
19	Rb	0.77	0/957	0.77	1/1283 (0.1%)
19	s	0.37	0/1010	0.60	0/1355
20	Sb	0.68	0/1211	0.72	0/1628
20	t	0.35	0/1211	0.65	1/1628 (0.1%)
21	Tb	0.84	0/1130	0.75	0/1517
21	u	0.40	0/1130	0.59	0/1517
22	Ub	0.80	0/807	0.68	0/1091
22	v	0.39	0/815	0.68	1/1102 (0.1%)
23	Vb	0.89	0/682	0.78	1/921 (0.1%)
23	w	0.43	0/693	0.62	1/935 (0.1%)
24	Wb	1.17	0/1038	0.80	0/1395
24	x	0.49	0/1038	0.62	0/1395
25	Xb	1.08	0/1139	0.78	0/1518
25	y	0.48	0/1139	0.68	0/1518
26	Yb	0.78	0/1087	0.67	0/1449
26	z	0.38	0/1087	0.66	0/1449
27	0	0.32	0/566	0.66	0/761
27	Zb	0.65	0/661	0.70	1/888 (0.1%)
28	1	0.51	0/782	0.81	0/1047
28	ab	1.18	1/782 (0.1%)	0.89	0/1047
29	2	0.35	0/620	0.57	0/838
29	bb	0.84	1/620 (0.2%)	0.75	0/838
30	4	1.95	2/452 (0.4%)	1.83	4/600 (0.7%)
30	db	0.91	0/452	0.73	0/600
31	5	0.35	0/483	0.65	0/643
31	eb	0.77	0/480	0.70	0/639
32	6	0.34	0/567	0.76	0/764
32	fb	0.46	0/567	0.75	0/764
33	7	0.29	0/2456	0.55	0/3343
33	gb	0.59	0/2436	0.68	0/3318
34	3	0.36	0/499	0.60	0/670
34	cb	0.82	0/493	0.71	0/663
35	4b	0.83	0/2883	0.63	0/4491
35	Bb	0.53	0/2883	0.49	0/4491
36	3b	1.02	0/3746	0.73	0/5832
36	Ca	0.61	0/3724	0.58	0/5798
37	Ay	1.28	0/1933	0.87	1/2598 (0.0%)
37	Da	0.73	0/1946	0.74	0/2614
38	By	1.21	1/3146 (0.0%)	0.79	0/4228
38	Ea	0.64	0/3146	0.68	0/4228
39	Cy	1.22	0/2800	0.83	1/3790 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
39	Fa	0.69	1/2800 (0.0%)	0.74	0/3790
40	Dy	0.83	0/2400	0.67	1/3239 (0.0%)
40	Ga	0.51	1/2408 (0.0%)	0.60	0/3248
41	Ey	0.88	0/1324	0.77	0/1782
41	Ha	0.53	0/1269	0.64	0/1705
42	Fy	1.19	0/1821	0.83	1/2451 (0.0%)
42	Ia	0.68	0/1828	0.69	0/2461
43	Gy	0.97	0/1836	0.78	0/2481
43	Ja	0.54	0/1795	0.66	0/2429
44	Hy	0.89	0/1529	0.69	0/2060
44	Ka	0.55	0/1531	0.64	0/2062
45	Iy	0.95	1/1801 (0.1%)	0.74	0/2416
45	La	0.56	0/1732	0.64	0/2323
46	Jy	0.81	0/1371	0.67	0/1838
46	Ma	0.42	0/1374	0.72	0/1842
47	Ly	1.32	2/1568 (0.1%)	0.83	2/2106 (0.1%)
47	Na	0.62	0/1573	0.77	1/2113 (0.0%)
48	My	0.94	0/1068	0.77	0/1438
48	Oa	0.58	0/1074	0.67	0/1446
49	Ny	1.41	0/1757	0.83	1/2354 (0.0%)
49	Pa	0.77	0/1757	0.78	0/2354
50	Oy	1.27	0/1585	0.77	0/2128
50	Qa	0.71	0/1585	0.68	0/2128
51	A	0.69	0/1400	0.65	0/1882
51	Py	1.28	0/1439	0.85	0/1938
52	B	0.60	0/1465	0.68	0/1965
52	Qy	1.18	0/1465	0.76	0/1965
53	C	0.60	0/1499	0.64	0/1998
53	Ry	1.12	0/1532	0.79	0/2043
54	D	0.64	0/1481	0.62	0/1990
54	Sy	1.10	0/1473	0.75	0/1980
55	E	0.63	0/1300	0.66	0/1743
55	Ty	1.14	0/1300	0.70	0/1743
56	F	0.47	0/794	0.56	0/1076
56	Uy	0.72	0/812	0.66	0/1099
57	G	0.60	0/1008	0.61	0/1356
57	Vy	1.21	0/1018	0.77	0/1369
58	H	2.49	1/1103 (0.1%)	0.89	7/1458 (0.5%)
58	Wy	0.89	0/863	0.65	0/1169
59	I	0.65	0/974	0.68	0/1314
59	Xy	1.09	0/979	0.76	0/1321
60	J	0.59	0/987	0.67	0/1318
60	Yy	1.07	0/995	0.82	0/1329

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
61	K	0.54	0/1118	0.65	0/1497
61	Zy	0.98	1/1118 (0.1%)	0.69	0/1497
62	L	0.70	0/1204	0.79	3/1612 (0.2%)
62	ay	1.24	0/1204	0.79	0/1612
63	M	0.57	0/473	0.81	0/629
63	by	1.02	0/473	0.73	0/629
64	N	0.62	0/775	0.68	0/1040
64	cy	1.11	0/745	0.77	0/1001
65	O	0.64	0/897	0.65	0/1205
65	dy	1.10	0/890	0.78	0/1196
66	P	0.66	0/1041	0.70	0/1394
66	ey	1.16	0/1038	0.77	0/1390
67	Q	0.73	0/868	0.71	0/1168
67	fy	1.29	0/868	0.78	0/1168
68	R	0.66	0/890	0.75	0/1189
68	gy	1.26	1/890 (0.1%)	0.80	0/1189
69	S	0.56	0/974	0.67	0/1297
69	hb	1.08	0/978	0.75	0/1301
70	T	0.60	0/777	0.73	0/1033
70	ib	0.97	0/772	0.77	0/1026
71	U	0.77	0/665	0.71	0/882
71	jb	1.38	0/685	0.86	0/908
72	V	0.50	0/614	0.65	0/822
72	kb	0.82	0/618	0.68	0/826
73	W	0.75	0/443	0.70	0/588
73	lb	1.39	0/443	0.84	0/588
74	X	0.52	0/423	0.54	0/562
74	mb	0.97	0/423	0.71	0/562
75	Y	0.46	0/234	0.63	0/300
75	nb	0.95	0/230	0.91	0/296
76	Z	0.64	0/860	0.69	0/1136
76	ob	1.02	0/836	0.78	0/1104
77	aa	0.69	0/701	0.69	1/934 (0.1%)
77	pb	1.31	0/701	0.79	0/934
78	lb	1.03	0/76214	0.73	4/118821 (0.0%)
78	Aa	0.61	0/74873	0.57	5/116727 (0.0%)
79	6b	0.69	0/1804	0.62	0/2809
79	8	0.27	0/1804	0.41	0/2809
80	ba	0.30	0/1067	0.59	0/1439
All	All	0.82	31/431658 (0.0%)	0.67	67/634238 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected

by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
2	Ab	0	1
2	b	0	5
3	Ba	0	6
4	Pb	0	1
4	q	0	3
5	Cb	0	3
7	Eb	0	1
7	f	0	1
8	g	0	2
9	h	0	3
10	Hb	0	2
10	i	0	4
11	Ib	0	2
11	j	0	1
12	Jb	0	4
13	l	0	1
14	Lb	0	1
15	Mb	0	4
15	n	0	3
16	o	0	1
17	Ob	0	2
17	p	0	1
18	Qb	0	3
18	r	0	2
20	Sb	0	2
20	t	0	3
21	Tb	0	2
22	Ub	0	1
22	v	0	3
24	Wb	0	2
25	Xb	0	3
26	z	0	2
28	1	0	1
28	ab	0	3
30	4	0	3
31	5	0	2
32	6	0	4
32	fb	0	3
33	gb	0	1
38	By	0	3
39	Fa	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
42	Fy	0	1
43	Gy	0	3
44	Hy	0	2
45	La	0	1
46	Jy	0	2
46	Ma	0	4
47	Ly	0	1
47	Na	0	5
49	Ny	0	2
49	Pa	0	1
50	Oy	0	2
50	Qa	0	1
52	Qy	0	1
53	Ry	0	1
54	Sy	0	1
55	E	0	1
55	Ty	0	1
57	G	0	1
57	Vy	0	1
58	H	0	4
60	Yy	0	1
61	K	0	1
62	L	0	2
62	ay	0	3
63	M	0	2
63	by	0	3
64	cy	0	1
69	hb	0	1
All	All	0	146

All (31) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
58	H	116	LYS	CG-CD	80.59	3.94	1.52
1	a	1597	A	C6-N1	39.89	2.15	1.35
1	a	1597	A	N1-C2	39.32	2.12	1.34
1	a	1597	A	N3-C4	34.21	2.03	1.34
1	a	1597	A	C2-N3	33.03	1.99	1.33
1	a	1597	A	C5-C6	28.85	1.98	1.41
30	4	13	ARG	C-N	28.80	1.73	1.33
30	4	14	TYR	N-CA	27.22	1.79	1.46
1	a	1597	A	C5-C4	25.54	1.89	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	Ly	54	LEU	C-N	-19.27	1.07	1.33
47	Ly	21	ARG	CA-CB	-18.74	1.28	1.52
1	a	74	U	C2-N3	15.82	1.69	1.37
1	a	74	U	N3-C4	15.11	1.68	1.38
1	a	74	U	N1-C2	14.33	1.67	1.38
1	a	74	U	N1-C6	13.79	1.65	1.38
3	Ba	33	LYS	C-N	-13.58	1.11	1.33
1	a	74	U	C4-C5	13.10	1.69	1.43
1	a	74	U	C5-C6	12.24	1.58	1.34
28	ab	12	LYS	CA-CB	-12.07	1.37	1.53
39	Fa	19	ALA	C-N	-9.68	1.20	1.33
45	Iy	120	GLY	C-N	-9.39	1.17	1.33
11	Ib	179	CYS	CA-CB	-8.05	1.41	1.52
16	Nb	134	VAL	C-N	-7.32	1.19	1.33
12	Jb	133	HIS	CA-CB	-6.63	1.42	1.52
5	Cb	92	ALA	CA-CB	-5.87	1.30	1.54
38	By	4	ARG	CA-CB	-5.77	1.43	1.53
40	Ga	179	ARG	C-N	-5.64	1.25	1.33
61	Zy	48	ARG	C-N	-5.34	1.25	1.33
3	c	189	ILE	CA-CB	-5.30	1.51	1.54
68	gy	23	VAL	CA-CB	-5.29	1.51	1.55
29	bb	36	LYS	C-N	-5.20	1.25	1.33

All (67) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	4	13	ARG	CA-C-N	26.43	163.44	122.74
30	4	13	ARG	C-N-CA	26.43	163.44	122.74
1	a	1597	A	N1-C2-N3	-10.10	99.01	129.30
1	a	1553	G	C4'-C3'-O3'	9.17	126.75	113.00
78	1b	846	A	C4-N9-C1'	8.54	151.91	126.30
1	a	1597	A	C2-N3-C4	8.34	135.61	110.60
62	L	79	TRP	N-CA-C	-7.69	104.03	113.41
1	a	1553	G	C1'-C2'-O2'	7.14	119.11	108.40
58	H	71	ARG	N-CA-C	6.99	119.34	110.33
30	4	14	TYR	N-CA-CB	6.97	122.85	110.80
1	2b	1791	A	C2'-C3'-O3'	6.96	119.94	109.50
58	H	116	LYS	CB-CG-CD	6.68	126.66	111.30
78	1b	846	A	N9-C1'-C2'	6.54	123.81	114.00
1	2b	1601	G	C2'-C3'-O3'	6.48	119.22	109.50
78	Aa	1561	G	O4'-C1'-N9	6.19	117.79	108.50
1	a	1596	C	C5'-C4'-O4'	6.17	119.05	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	g	61	TYR	N-CA-C	-6.17	104.48	112.68
13	l	22	VAL	CA-C-N	5.84	132.70	121.54
13	l	22	VAL	C-N-CA	5.84	132.70	121.54
78	Aa	1063	G	C4-N9-C1'	5.83	143.98	126.50
1	2b	322	G	C2'-C3'-O3'	5.82	118.23	109.50
11	Ib	80	GLY	N-CA-C	5.82	118.82	111.09
12	Jb	93	LEU	N-CA-CB	-5.80	107.56	114.17
47	Na	48	PRO	N-CA-C	5.73	124.27	112.47
37	Ay	137	ILE	N-CA-C	-5.70	106.26	111.67
47	Ly	6	ASN	CA-C-N	5.68	130.29	122.06
47	Ly	6	ASN	C-N-CA	5.68	130.29	122.06
77	aa	4	ARG	N-CA-CB	-5.66	107.72	114.17
78	Aa	1560	G	C2'-C3'-O3'	5.64	117.96	109.50
58	H	62	GLY	N-CA-C	5.62	121.56	114.25
27	Zb	40	VAL	N-CA-C	-5.61	107.31	113.43
11	Ib	104	ILE	N-CA-C	5.58	115.34	108.53
9	Gb	68	LEU	N-CA-C	-5.58	98.91	110.80
2	b	65	ALA	N-CA-C	-5.58	103.33	110.53
1	2b	628	G	C1'-C2'-O2'	-5.57	100.05	108.40
1	a	1596	C	C5'-C4'-C3'	5.53	124.29	116.00
3	Ba	214	LYS	CA-C-N	5.50	131.87	121.97
3	Ba	214	LYS	C-N-CA	5.50	131.87	121.97
23	w	82	VAL	N-CA-C	-5.47	107.53	112.12
1	2b	553	G	N9-C1'-C2'	5.42	120.14	112.00
20	t	144	ARG	N-CA-C	-5.41	104.43	111.74
42	Fy	92	ILE	CB-CA-C	-5.40	105.34	111.55
22	v	97	VAL	N-CA-C	5.39	116.02	110.36
39	Cy	148	ILE	N-CA-C	-5.39	102.92	109.01
1	2b	352	A	P-O3'-C3'	5.39	128.28	120.20
1	2b	629	U	C5'-C4'-O4'	5.37	117.86	109.80
23	Vb	13	VAL	N-CA-C	-5.35	103.12	108.96
58	H	70	LYS	CA-C-N	5.33	130.44	120.95
58	H	70	LYS	C-N-CA	5.33	130.44	120.95
78	1b	1307	G	C2'-C3'-O3'	5.32	117.48	109.50
1	2b	629	U	C2-N1-C1'	5.32	133.65	117.70
49	Ny	168	GLY	N-CA-C	-5.31	106.07	112.49
78	Aa	1063	G	C8-N9-C1'	-5.28	111.17	127.00
19	Rb	117	LEU	N-CA-C	5.24	112.73	108.07
78	Aa	1063	G	O4'-C1'-N9	5.18	115.97	108.20
7	Eb	241	GLY	N-CA-C	-5.17	107.74	113.79
2	b	111	ILE	CG1-CB-CG2	5.14	126.13	110.70
62	L	47	LYS	CA-C-N	5.13	131.34	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
62	L	47	LYS	C-N-CA	5.13	131.34	121.54
1	2b	1023	A	C4'-C3'-O3'	5.13	117.09	109.40
16	o	23	PRO	N-CA-C	5.12	118.90	110.55
58	H	77	LYS	CB-CA-C	-5.12	100.22	110.42
30	4	13	ARG	CA-C-O	-5.09	113.23	120.51
78	1b	1307	G	P-O3'-C3'	5.05	127.78	120.20
58	H	74	LYS	N-CA-C	5.03	121.50	110.80
1	2b	928	U	P-O3'-C3'	5.02	127.73	120.20
40	Dy	258	LYS	N-CA-CB	-5.00	108.46	114.17

There are no chirality outliers.

All (146) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
28	1	46	GLU	Peptide
30	4	10	HIS	Peptide
30	4	11	PRO	Peptide
30	4	9	SER	Peptide
31	5	3	LYS	Peptide
31	5	4	VAL	Peptide
32	6	101	ALA	Peptide
32	6	105	TYR	Peptide
32	6	106	TYR	Peptide
32	6	147	VAL	Peptide
2	Ab	42	PRO	Peptide
3	Ba	147	ALA	Peptide
3	Ba	151	LYS	Peptide
3	Ba	204	ILE	Peptide
3	Ba	211	HIS	Peptide
3	Ba	44	GLY	Peptide
3	Ba	81	PHE	Peptide
38	By	127	LYS	Peptide
38	By	141	GLY	Peptide
38	By	257	PRO	Peptide
5	Cb	165	VAL	Peptide
5	Cb	172	ALA	Peptide
5	Cb	83	ILE	Peptide
55	E	42	ILE	Peptide
7	Eb	42	LEU	Peptide
39	Fa	328	ASN	Peptide
42	Fy	232	ARG	Peptide
57	G	18	PRO	Peptide

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Mol	Chain	Res	Type	Group
43	Gy	30	THR	Peptide
43	Gy	38	GLN	Peptide
43	Gy	76	ALA	Peptide
58	H	70	LYS	Peptide
58	H	75	THR	Peptide
58	H	76	VAL	Peptide
58	H	77	LYS	Peptide
10	Hb	110	GLN	Peptide
10	Hb	64	VAL	Peptide
44	Hy	13	PRO	Peptide
44	Hy	21	LYS	Peptide
11	Ib	8	ARG	Peptide
11	Ib	9	HIS	Peptide
12	Jb	164	PHE	Peptide
12	Jb	9	SER	Peptide
12	Jb	98	ALA	Peptide
12	Jb	99	LEU	Peptide
46	Jy	112	LEU	Peptide
46	Jy	114	ILE	Peptide
61	K	102	GLU	Peptide
62	L	17	ALA	Peptide
62	L	66	ALA	Peptide
45	La	173	PHE	Peptide
14	Lb	4	GLU	Peptide
47	Ly	129	ASN	Peptide
63	M	20	GLY	Peptide
63	M	21	ILE	Peptide
46	Ma	11	ASP	Peptide
46	Ma	172	LEU	Peptide
46	Ma	94	ARG	Peptide
46	Ma	95	ASN	Peptide
15	Mb	110	GLY	Peptide
15	Mb	128	ALA	Peptide
15	Mb	130	THR	Peptide
15	Mb	84	ASN	Peptide
47	Na	135	ALA	Peptide
47	Na	140	SER	Peptide
47	Na	141	ALA	Mainchain
47	Na	47	ALA	Peptide
47	Na	61	PRO	Peptide
49	Ny	67	ARG	Peptide
49	Ny	92	LEU	Peptide

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Mol	Chain	Res	Type	Group
17	Ob	28	VAL	Peptide
17	Ob	39	ILE	Peptide
50	Oy	110[A]	PRO	Peptide
50	Oy	148[A]	LYS	Peptide
49	Pa	146	ALA	Peptide
4	Pb	53	PRO	Peptide
50	Qa	33	ILE	Peptide
18	Qb	32	ASN	Peptide
18	Qb	33	GLY	Peptide
18	Qb	40	GLU	Peptide
52	Qy	161	LYS	Peptide
53	Ry	52	LYS	Peptide
20	Sb	6	GLN	Peptide
20	Sb	90	ASN	Peptide
54	Sy	121	ILE	Peptide
21	Tb	117	SER	Peptide
21	Tb	36	ILE	Peptide
55	Ty	18	ASP	Peptide
22	Ub	20	ILE	Peptide
57	Vy	9	THR	Peptide
24	Wb	29	PRO	Peptide
24	Wb	54	ASP	Peptide
25	Xb	130	VAL	Peptide
25	Xb	41	SER	Peptide
25	Xb	88	PRO	Peptide
60	Yy	49	PRO	Peptide
28	ab	36	ILE	Peptide
28	ab	84	VAL	Peptide
28	ab	9	GLY	Peptide
62	ay	116	GLY	Peptide
62	ay	23	GLY	Peptide
62	ay	26	ARG	Peptide
2	b	166	GLY	Peptide
2	b	184	LEU	Peptide
2	b	186	GLY	Peptide
2	b	64	ILE	Peptide
2	b	65	ALA	Peptide
63	by	19	ASN	Peptide
63	by	20	GLY	Peptide
63	by	24	PRO	Peptide
64	cy	22	LYS	Peptide
7	f	195	ILE	Peptide

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Mol	Chain	Res	Type	Group
32	fb	131	PHE	Peptide
32	fb	133	ALA	Peptide
32	fb	144	CYS	Peptide
8	g	100	ASN	Peptide
8	g	44	ASN	Peptide
33	gb	232	TYR	Peptide
9	h	121	LEU	Peptide
9	h	122	GLU	Peptide
9	h	125	THR	Peptide
69	hb	83	LYS	Peptide
10	i	110	GLN	Peptide
10	i	31	SER	Peptide
10	i	64	VAL	Peptide
10	i	9	LEU	Peptide
11	j	100	ALA	Peptide
13	l	80	LEU	Peptide
15	n	110	GLY	Peptide
15	n	129	GLU	Peptide
15	n	130	THR	Peptide
16	o	22	ALA	Peptide
17	p	133	ARG	Peptide
4	q	124	THR	Peptide
4	q	125	PRO	Peptide
4	q	52	LYS	Peptide
18	r	113	ASP	Peptide
18	r	40	GLU	Peptide
20	t	101	LEU	Peptide
20	t	137	HIS	Peptide
20	t	90	ASN	Peptide
22	v	51	VAL	Peptide
22	v	71	PRO	Peptide
22	v	72	ASN	Peptide
26	z	32	ARG	Peptide
26	z	51	GLU	Peptide

5.2 Too-close contacts ⓘ

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	2b	37739	0	18910	798	0
1	a	37455	0	18845	855	0
2	Ab	1603	0	1610	49	0
2	b	1583	0	1578	60	0
3	Ba	1798	0	1889	72	0
3	c	1722	0	1793	52	0
4	Pb	916	0	941	26	0
4	q	939	0	968	42	0
5	Cb	1626	0	1715	51	0
5	d	1635	0	1723	68	0
6	Db	1729	0	1812	50	0
6	e	1734	0	1817	50	0
7	Eb	2056	0	2140	79	0
7	f	2068	0	2154	88	0
8	Fb	1605	0	1669	77	0
8	g	1609	0	1675	60	0
9	Gb	1815	0	1894	69	0
9	h	1755	0	1846	96	0
10	Hb	1473	0	1555	39	0
10	i	1486	0	1576	50	0
11	Ib	1476	0	1501	61	0
11	j	1489	0	1525	65	0
12	Jb	1479	0	1556	43	0
12	k	1494	0	1573	56	0
13	Kb	752	0	719	20	0
13	l	741	0	691	14	0
14	Lb	1159	0	1225	27	0
14	m	1168	0	1233	34	0
15	Mb	875	0	878	49	0
15	n	890	0	887	27	0
16	Nb	1192	0	1255	45	0
16	o	1192	0	1255	48	0
17	Ob	926	0	950	33	0
17	p	949	0	985	38	0
18	Qb	1105	0	1166	47	0
18	r	1105	0	1166	54	0
19	Rb	948	0	990	34	0
19	s	1000	0	1063	39	0
20	Sb	1192	0	1222	45	0
20	t	1192	0	1222	46	0
21	Tb	1112	0	1124	49	0
21	u	1112	0	1124	45	0
22	Ub	797	0	863	36	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
22	v	805	0	874	46	0
23	Vb	673	0	662	26	0
23	w	684	0	672	30	0
24	Wb	1021	0	1060	34	0
24	x	1021	0	1060	44	0
25	Xb	1121	0	1196	48	0
25	y	1121	0	1196	43	0
26	Yb	1073	0	1132	45	0
26	z	1073	0	1132	64	0
27	0	558	0	598	33	0
27	Zb	651	0	682	23	0
28	1	769	0	816	38	0
28	ab	769	0	818	28	0
29	2	610	0	633	26	0
29	bb	610	0	633	28	0
30	4	442	0	431	71	0
30	db	442	0	430	27	0
31	5	475	0	525	21	0
31	eb	472	0	521	18	0
32	6	556	0	549	16	0
32	fb	556	0	547	39	0
33	7	2403	0	2350	62	0
33	gb	2383	0	2332	87	0
34	3	497	0	535	28	0
34	cb	491	0	524	13	0
35	4b	2579	0	1302	54	0
35	Bb	2579	0	1304	62	0
36	3b	3353	0	1682	64	0
36	Ca	3333	0	1685	78	0
37	Ay	1899	0	1957	73	0
37	Da	1912	0	1976	77	0
38	By	3075	0	3142	116	0
38	Ea	3075	0	3142	107	0
39	Cy	2748	0	2859	117	0
39	Fa	2748	0	2859	129	0
40	Dy	2351	0	2294	108	0
40	Ga	2359	0	2311	101	0
41	Ey	1303	0	1376	52	0
41	Ha	1248	0	1339	49	0
42	Fy	1784	0	1862	48	0
42	Ia	1791	0	1869	60	0
43	Gy	1804	0	1877	41	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
43	Ja	1763	0	1819	49	0
44	Hy	1508	0	1572	58	0
44	Ka	1510	0	1576	55	0
45	Iy	1764	0	1804	59	0
45	La	1696	0	1731	68	0
46	Jy	1350	0	1381	51	0
46	Ma	1353	0	1383	51	0
47	Ly	1543	0	1607	58	0
47	Na	1548	0	1613	68	0
48	My	1053	0	1149	53	0
48	Oa	1059	0	1154	52	0
49	Ny	1720	0	1779	75	0
49	Pa	1720	0	1779	80	0
50	Oy	1555	0	1659	61	0
50	Qa	1555	0	1659	69	0
51	A	1378	0	1404	46	0
51	Py	1416	0	1433	53	0
52	B	1441	0	1543	47	0
52	Qy	1441	0	1543	55	0
53	C	1482	0	1578	46	0
53	Ry	1515	0	1606	42	0
54	D	1445	0	1487	50	0
54	Sy	1437	0	1475	45	0
55	E	1276	0	1323	57	0
55	Ty	1276	0	1323	56	0
56	F	778	0	791	20	0
56	Uy	796	0	812	26	0
57	G	993	0	1040	38	0
57	Vy	1003	0	1048	37	0
58	H	1089	0	1183	55	0
58	Wy	849	0	727	12	0
59	I	959	0	1023	29	0
59	Xy	964	0	1025	34	0
60	J	976	0	1064	40	0
60	Yy	984	0	1075	43	0
61	K	1092	0	1155	41	0
61	Zy	1092	0	1155	31	0
62	L	1173	0	1215	52	0
62	ay	1173	0	1215	43	0
63	M	462	0	491	17	0
63	by	462	0	491	11	0
64	N	767	0	816	26	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
64	cy	737	0	792	26	0
65	O	883	0	918	30	0
65	dy	876	0	912	29	0
66	P	1020	0	1090	38	0
66	ey	1017	0	1081	27	0
67	Q	850	0	880	27	0
67	fy	850	0	880	37	0
68	R	880	0	945	31	0
68	gy	880	0	945	44	0
69	S	965	0	1067	36	0
69	hb	969	0	1078	22	0
70	T	770	0	846	38	0
70	ib	766	0	844	29	0
71	U	650	0	654	29	0
71	jb	670	0	675	33	0
72	V	608	0	671	22	0
72	kb	612	0	682	23	0
73	W	436	0	475	18	0
73	lb	436	0	475	17	0
74	X	417	0	457	20	0
74	mb	417	0	459	18	0
75	Y	233	0	284	6	0
75	nb	229	0	273	5	0
76	Z	847	0	915	29	0
76	ob	824	0	892	27	0
77	aa	694	0	738	26	0
77	pb	694	0	738	28	0
78	1b	68091	0	33899	1154	0
78	Aa	66891	0	33616	1306	0
79	6b	1616	0	814	15	0
79	8	1616	0	816	10	0
80	ba	1052	0	1028	25	0
All	All	401820	0	296572	8919	0

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

All (8919) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:74:U:N3	1:a:74:U:C2	1.69	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:74:U:N3	1:a:74:U:C4	1.68	1.54
1:a:1597:A:C5	1:a:1597:A:C6	1.98	1.51
1:a:1597:A:C5	1:a:1597:A:C4	1.89	1.46
30:4:13:ARG:C	30:4:14:TYR:N	1.73	1.45
30:4:14:TYR:N	30:4:14:TYR:CA	1.79	1.42
32:fb:123:ASN:ND2	32:fb:144:CYS:SG	2.00	1.33
30:db:39:CYS:SG	30:db:42:CYS:SG	1.33	1.32
1:a:1597:A:N3	30:4:14:TYR:N	1.78	1.31
1:a:1597:A:C2	30:4:14:TYR:N	1.98	1.31
1:a:1597:A:N3	1:a:1597:A:C2	1.99	1.29
1:a:1597:A:C4	1:a:1597:A:N3	2.03	1.25
1:2b:227:U:C4	1:2b:235:G:O6	1.95	1.19
78:1b:600:G:N2	78:1b:603:A:N7	1.90	1.17
78:1b:126:U:O4	78:1b:142:C:N4	1.77	1.16
1:a:1597:A:C2	1:a:1597:A:N1	2.13	1.16
78:Aa:2138:A:HO2'	71:U:2:GLY:N	1.44	1.16
1:2b:1205:C:OP2	1:2b:1206:U:O4	1.62	1.16
1:a:1597:A:C6	1:a:1597:A:N1	2.15	1.14
36:Ca:70:G:N3	36:Ca:88:A:N6	1.95	1.13
26:z:29:HIS:O	26:z:67:GLY:HA2	1.50	1.10
1:a:1597:A:C6	30:4:14:TYR:N	2.19	1.10
1:2b:630:A:N7	78:1b:846:A:N6	2.01	1.08
78:1b:1896:A:N6	78:1b:2339:C:H42	1.50	1.08
78:Aa:900:G:N3	78:Aa:1589:A:N6	2.03	1.06
1:2b:1540:G:OP1	1:2b:1541:G:OP2	1.75	1.05
25:Xb:47:SER:HG	25:Xb:48:HIS:HD1	1.07	1.02
1:a:1597:A:C4	30:4:14:TYR:N	2.27	1.02
20:t:100:THR:HG23	20:t:105:VAL:HG12	1.40	1.02
78:Aa:3165:A:N6	78:Aa:3285:C:H42	1.57	1.01
78:1b:2890:A:H61	78:1b:2913:C:N4	1.60	0.99
78:1b:1064:A:N6	78:1b:1092:C:C2	2.30	0.99
78:Aa:1385:C:HO2'	41:Ha:2:SER:N	1.59	0.99
78:1b:2890:A:N6	78:1b:2913:C:H42	1.61	0.98
78:Aa:3165:A:H61	78:Aa:3285:C:N4	1.62	0.97
1:2b:394:C:H42	1:2b:401:A:N6	1.62	0.97
1:2b:630:A:H62	78:1b:846:A:N6	1.63	0.97
1:2b:972:G:N2	78:1b:847:A:C2	2.32	0.97
47:Na:4:SER:O	62:L:44:ASN:ND2	1.98	0.96
78:Aa:408:A:N7	36:Ca:15:G:N2	2.13	0.96
36:Ca:41:A:N7	36:Ca:103:G:N2	2.14	0.95
1:2b:487:G:C6	1:2b:501:U:N3	2.35	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:2890:A:N6	78:Aa:2913:C:H42	1.65	0.95
78:Aa:1339:C:OP1	66:P:61:LYS:NZ	2.00	0.94
32:fb:123:ASN:ND2	32:fb:144:CYS:HG	1.56	0.94
78:1b:837:A:N6	78:1b:856:G:N3	2.14	0.94
78:Aa:3194:C:O2	78:Aa:3197:G:N2	2.00	0.94
1:2b:630:A:H62	78:1b:846:A:H61	0.96	0.93
78:Aa:2890:A:H61	78:Aa:2913:C:N4	1.66	0.93
37:Ay:27:ALA:O	37:Ay:128:ARG:NH2	2.02	0.93
78:Aa:43:A:N6	78:Aa:2802:A:C2	2.36	0.93
45:Iy:166:ILE:HG21	55:Ty:160:ILE:HD11	1.48	0.93
51:Py:62:ARG:NH1	78:1b:412:G:OP1	2.02	0.93
3:Ba:136:ARG:O	3:Ba:215:VAL:HA	1.67	0.92
39:Cy:118:LYS:O	39:Cy:122:THR:OG1	1.85	0.92
1:a:1310:U:HO2'	1:a:1402:G:HO2'	1.16	0.92
1:2b:1173:C:OP1	20:Sb:132:ARG:NH2	2.02	0.92
1:a:74:U:C2	58:H:116:LYS:CD	2.53	0.92
7:f:112:HIS:HE2	7:f:237:SER:HG	1.10	0.92
78:Aa:1145:G:O2'	66:P:45:ARG:O	1.88	0.91
1:2b:630:A:N6	78:1b:846:A:H61	1.68	0.91
42:Fy:241:LYS:NZ	78:1b:576:C:OP1	2.02	0.91
1:a:1597:A:C5	30:4:14:TYR:HA	2.05	0.91
1:2b:148:A:N6	1:2b:166:C:C4	2.39	0.91
1:2b:1197:C:O5'	22:Ub:77:LYS:NZ	2.04	0.91
78:1b:1846:C:OP1	78:1b:1849:C:N4	2.03	0.91
78:1b:221:A:O2'	78:1b:223:U:OP2	1.86	0.91
1:2b:332:U:OP2	11:Ib:175:GLN:NE2	2.04	0.91
1:2b:521:A:N3	26:Yb:34:ASN:ND2	2.18	0.91
1:a:104:A:OP2	1:a:308:C:N4	2.04	0.90
78:Aa:807:A:N6	78:Aa:2411:U:O2'	2.04	0.90
37:Da:146:THR:HG1	37:Da:160:SER:HG	1.01	0.90
70:T:60:LEU:O	70:T:63:ASN:C	2.14	0.90
35:Bb:8:G:O6	40:Ga:21:ARG:NH2	2.05	0.90
60:J:33:ALA:HB3	60:J:106:ILE:HD11	1.53	0.90
78:1b:1189:C:N3	78:1b:1315:U:O2	2.05	0.90
78:Aa:1158:A:OP2	42:Ia:90:LYS:NZ	2.05	0.90
1:2b:1759:C:O2	1:2b:1780:G:N2	2.03	0.90
1:a:15:U:O2'	1:a:620:A:N6	2.05	0.90
1:a:74:U:C2	58:H:116:LYS:CG	2.55	0.90
78:Aa:2890:A:H61	78:Aa:2913:C:H42	0.96	0.90
72:kb:17:ARG:NH2	78:1b:1824:U:O3'	2.05	0.90
73:lb:17:LYS:NZ	78:1b:1521:G:O6	2.04	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:z:29:HIS:O	26:z:67:GLY:CA	2.18	0.89
78:Aa:342:A:OP2	36:Ca:21:C:N4	2.06	0.89
47:Na:3:ILE:HD13	62:L:45:MET:HE3	1.55	0.89
68:gy:47:CYS:HG	68:gy:49:SER:HG	1.06	0.89
1:2b:762:A:OP1	12:Jb:79:ARG:NH2	2.05	0.89
1:2b:959:U:OP2	29:bb:20:LYS:NZ	2.06	0.89
1:2b:623:A:N6	1:2b:970:A:OP1	2.06	0.89
1:2b:1198:G:OP1	1:2b:1199:G:O2'	1.89	0.89
56:Uy:42:LYS:NZ	78:1b:1687:U:OP2	2.06	0.89
78:1b:1761:C:O2'	78:1b:1763:U:OP2	1.91	0.89
78:Aa:515:C:O2'	39:Fa:341:SER:O	1.89	0.89
1:2b:1085:G:N2	1:2b:1088:A:OP2	2.05	0.89
38:By:325:LYS:NZ	78:1b:3096:C:O3'	2.06	0.89
78:Aa:2162:U:OP1	37:Da:234:LYS:NZ	2.06	0.89
18:r:37:THR:O	18:r:45:ARG:NH1	2.06	0.88
78:Aa:154:U:OP2	69:S:103:LYS:NZ	2.06	0.88
1:2b:1486:G:OP1	22:Ub:64:LYS:NZ	2.06	0.88
1:a:752:A:O2'	7:f:221:ARG:NH1	2.07	0.88
78:Aa:2335:G:O4'	78:Aa:2337:C:N4	2.06	0.88
43:Gy:52:TRP:O	43:Gy:57:ARG:NH1	2.06	0.88
49:Ny:90:ASN:ND2	78:1b:2424:A:OP1	2.06	0.88
78:1b:339:C:OP1	78:1b:1380:G:O2'	1.92	0.88
48:Oa:88:ALA:O	48:Oa:93:LYS:NZ	2.06	0.88
27:Zb:25:LYS:NZ	79:6b:42:A:O3'	2.06	0.88
78:Aa:1178:G:OP2	50:Qa:25:LYS:NZ	2.07	0.88
78:Aa:1188:U:OP1	78:Aa:1210:U:O2'	1.92	0.88
44:Hy:41:ILE:HD11	44:Hy:67:ALA:HB1	1.55	0.88
1:a:1597:A:C5	30:4:14:TYR:N	2.41	0.88
78:Aa:1874:A:OP2	53:C:21:LYS:NZ	2.06	0.88
70:T:60:LEU:O	70:T:63:ASN:O	1.92	0.88
60:Yy:3:LYS:NZ	78:1b:336:A:OP1	2.06	0.88
62:ay:21:ARG:NH2	78:1b:640:U:OP1	2.07	0.88
78:1b:3350:C:O2	78:1b:3353:G:N2	2.06	0.88
1:a:1339:C:O2'	1:a:1341:A:N7	2.07	0.88
36:3b:151:C:N4	78:1b:2585:G:O5'	2.06	0.87
1:a:554:C:N4	1:a:571:G:O6	2.06	0.87
1:a:1555:A:N6	30:4:14:TYR:O	2.06	0.87
35:Bb:1:G:N2	40:Ga:269:SER:OG	2.07	0.87
1:a:1364:G:O2'	18:r:26:LYS:NZ	2.07	0.87
7:Eb:11:ARG:NH2	7:Eb:21:ASP:O	2.07	0.87
1:a:38:C:O3'	12:k:6:ARG:NH1	2.07	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:568:G:C5	1:2b:576:G:N2	2.41	0.87
1:2b:61:A:O2'	1:2b:62:A:O4'	1.93	0.87
1:2b:741:C:OP2	14:Lb:43:LYS:NZ	2.08	0.87
42:Fy:90:LYS:NZ	78:1b:1158:A:OP2	2.06	0.87
5:d:148:LEU:O	5:d:174:ARG:NH2	2.06	0.87
28:1:26:CYS:SG	28:1:74:CYS:HB3	2.14	0.87
44:Ka:12:VAL:O	44:Ka:51:GLN:HA	1.75	0.87
1:2b:259:U:OP1	11:Ib:75:LYS:NZ	2.08	0.87
62:ay:111:LYS:NZ	78:1b:714:G:N7	2.23	0.87
78:Aa:220:G:C6	78:Aa:1389:G:C2	2.63	0.87
10:i:108:GLN:NE2	10:i:111:LYS:O	2.08	0.87
78:Aa:2361:A:N6	78:Aa:2377:G:O6	2.07	0.87
5:Cb:53:ILE:HD13	5:Cb:73:LEU:HD11	1.57	0.86
37:Ay:220:GLY:O	78:1b:2245:C:O2'	1.90	0.86
1:2b:946:U:O3'	3:Ba:165:ARG:NH1	2.08	0.86
78:Aa:1121:U:O4	78:Aa:1137:C:N4	2.08	0.86
1:2b:826:U:O4	1:2b:846:G:O6	1.93	0.86
67:fy:42:GLN:NE2	78:1b:509:U:O2'	2.08	0.86
78:Aa:43:A:C6	78:Aa:2802:A:C2	2.63	0.86
40:Ga:265:TYR:O	40:Ga:269:SER:OG	1.94	0.86
67:fy:87:ASN:ND2	78:1b:624:G:OP1	2.07	0.86
35:4b:61:G:O2'	40:Dy:274:GLN:NE2	2.08	0.86
52:Qy:151:ARG:NH1	78:1b:781:G:OP1	2.08	0.86
19:s:18:GLU:O	19:s:72:LYS:NZ	2.07	0.86
1:2b:1572:G:O2'	8:Fb:185:ARG:NH2	2.08	0.86
1:a:1483:A:N3	1:a:1607:G:O2'	2.08	0.86
1:2b:791:A:OP1	7:Eb:187:ARG:NH1	2.08	0.86
1:2b:971:A:N6	78:1b:846:A:N3	2.23	0.86
78:Aa:1846:C:OP1	78:Aa:1849:C:N4	2.09	0.86
42:Ia:168:ILE:O	42:Ia:172:ASN:ND2	2.08	0.86
52:B:182:LYS:NZ	62:L:55:LYS:O	2.09	0.86
49:Ny:189:LYS:NZ	78:1b:61:A:N1	2.24	0.86
78:Aa:2631:U:OP2	55:E:4:SER:OG	1.94	0.86
61:K:52:LYS:O	61:K:65:ARG:NH1	2.08	0.86
1:2b:1275:A:N3	6:Db:141:LYS:NZ	2.24	0.86
78:Aa:978:G:O2'	78:Aa:979:U:O4'	1.94	0.86
35:Bb:50:U:O3'	40:Ga:224:LYS:NZ	2.09	0.86
51:A:14:SER:O	51:A:105:LYS:NZ	2.09	0.86
1:2b:1009:U:OP2	17:Ob:129:LYS:NZ	2.08	0.86
34:cb:21:SER:OG	34:cb:22:ARG:NH1	2.09	0.86
36:3b:3:A:O2'	51:Py:61:ARG:NH1	2.09	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:1b:3353:G:O2'	78:1b:3356:G:O4'	1.94	0.86
1:2b:235:G:O2'	1:2b:236:A:O5'	1.93	0.85
67:fy:106:ASN:ND2	78:1b:583:G:O3'	2.09	0.85
12:k:106:GLU:O	12:k:112:GLN:NE2	2.08	0.85
42:Ia:103:LEU:HD23	42:Ia:130:ILE:HD11	1.58	0.85
1:2b:398:G:OP2	11:Ib:47:ARG:NH1	2.09	0.85
61:Zy:69:LYS:NZ	78:1b:1633:C:OP2	2.08	0.85
1:2b:479:C:O3'	12:Jb:120:LYS:NZ	2.09	0.85
1:2b:1773:C:OP2	75:nb:2:ARG:NH1	2.09	0.85
26:Yb:6:THR:HG23	26:Yb:28:LEU:HD12	1.57	0.85
68:gy:58:ARG:NH2	78:1b:1592:G:OP1	2.08	0.85
2:b:62:ARG:O	2:b:65:ALA:O	1.95	0.85
78:Aa:209:A:O2'	78:Aa:211:A:OP2	1.94	0.85
1:2b:229:U:O4	1:2b:237:C:N3	2.09	0.85
1:2b:486:G:N2	1:2b:501:U:O2'	2.09	0.85
1:2b:856:A:OP2	10:Hb:97:ARG:NH2	2.10	0.85
35:4b:91:G:N2	45:Iy:56:GLU:OE2	2.09	0.85
49:Ny:157:LYS:O	49:Ny:162:ARG:NH2	2.10	0.85
62:ay:7:LYS:O	62:ay:11:HIS:ND1	2.08	0.85
78:1b:1624:G:O6	78:1b:1819:U:O4	1.95	0.85
78:Aa:1646:G:O2'	78:Aa:1808:G:N2	2.10	0.85
1:2b:1791:A:O2'	1:2b:1792:G:OP2	1.93	0.85
1:a:959:U:OP2	29:2:20:LYS:NZ	2.10	0.85
1:2b:1485:C:O2'	22:Ub:64:LYS:NZ	2.08	0.85
78:1b:1196:C:OP1	78:1b:1309:U:O2'	1.93	0.85
78:1b:3042:U:OP2	78:1b:3092:C:N4	2.10	0.85
19:s:24:LEU:HD21	19:s:34:LEU:HD22	1.57	0.85
41:Ey:46:ARG:NH1	78:1b:3268:A:OP1	2.09	0.85
46:Jy:16:LYS:NZ	78:1b:2683:U:O3'	2.10	0.85
1:a:1160:A:OP2	18:r:142:TYR:OH	1.92	0.85
10:i:103:SER:N	10:i:106:SER:O	2.09	0.85
78:Aa:1544:G:OP1	49:Pa:67:ARG:NH2	2.09	0.85
78:Aa:1679:A:OP1	56:F:94:ARG:NH1	2.10	0.85
36:Ca:63:G:O3'	69:S:49:LYS:NZ	2.09	0.85
45:La:45:GLU:O	45:La:141:LYS:NZ	2.09	0.85
1:a:79:C:O2	9:h:174:LYS:NZ	2.09	0.85
1:a:992:A:O2'	1:a:1785:U:O2	1.93	0.85
47:Na:74:GLY:O	47:Na:101:ARG:NH1	2.10	0.85
42:Fy:80:GLN:OE1	55:Ty:136:ARG:NH1	2.09	0.85
49:Ny:4:TYR:OH	78:1b:148:G:OP2	1.94	0.85
68:gy:41:ARG:O	68:gy:43:LYS:NZ	2.10	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:3158:G:O6	78:Aa:3292:A:N1	2.10	0.85
47:Ly:36:ARG:NH2	78:1b:687:U:OP2	2.10	0.84
1:2b:1000:C:N4	1:2b:1003:A:OP2	2.09	0.84
35:4b:7:G:OP1	40:Dy:33:ARG:NH1	2.10	0.84
36:Ca:59:A:O3'	59:I:61:LYS:NZ	2.10	0.84
35:4b:7:G:O3'	40:Dy:33:ARG:NH2	2.09	0.84
50:Oy:176[A]:LYS:NZ	78:1b:3191:G:OP1	2.11	0.84
51:Py:171:ARG:NH1	78:1b:3276:G:O6	2.10	0.84
78:1b:1189:C:OP1	78:1b:1209:G:N2	2.10	0.84
1:a:1081:A:O2'	1:a:1082:C:O5'	1.95	0.84
35:Bb:29:C:O2	35:Bb:51:A:N6	2.10	0.84
33:gb:220:ILE:O	33:gb:233:THR:HA	1.77	0.84
47:Ly:74:GLY:O	47:Ly:101:ARG:NH1	2.10	0.84
1:a:657:U:O2	1:a:677:G:N1	2.10	0.84
36:3b:55:U:O4	36:3b:62:C:N3	2.09	0.84
68:gy:74:ARG:NH2	78:1b:1639:C:OP2	2.11	0.84
78:Aa:36:C:OP2	49:Pa:83:LYS:NZ	2.09	0.84
78:Aa:1129:A:OP1	45:La:13:LYS:NZ	2.10	0.84
78:Aa:1222:G:OP2	80:ba:57:THR:OG1	1.95	0.84
78:Aa:1716:U:O2'	78:Aa:1717:U:O5'	1.94	0.84
78:Aa:3042:U:OP2	78:Aa:3092:C:N4	2.10	0.84
1:2b:1339:C:O2'	1:2b:1341:A:N7	2.09	0.84
31:eb:38:LEU:O	31:eb:41:THR:OG1	1.95	0.84
51:Py:167:ARG:NH2	78:1b:620:U:OP1	2.10	0.84
74:mb:122:ARG:NH2	78:1b:2896:A:O3'	2.10	0.84
1:a:823:G:C6	1:a:850:A:C6	2.65	0.84
78:Aa:1873:U:OP1	53:C:21:LYS:NZ	2.11	0.84
78:Aa:2261:G:O2'	78:Aa:2263:C:N4	2.11	0.84
1:2b:742:U:O2	10:Hb:107:ARG:NH2	2.11	0.84
1:2b:930:A:OP1	28:ab:32:LYS:NZ	2.11	0.84
5:Cb:58:LEU:O	23:Vb:15:ARG:NE	2.10	0.84
78:Aa:1433:A:O2'	78:Aa:1434:G:O4'	1.96	0.84
76:ob:38:GLN:NE2	78:1b:284:A:OP2	2.10	0.84
1:a:1151:A:O2'	1:a:1766:A:N7	2.11	0.84
36:Ca:36:G:OP2	69:S:85:THR:OG1	1.95	0.84
1:2b:458:G:OP1	26:Yb:109:LYS:NZ	2.11	0.84
8:Fb:220:VAL:O	8:Fb:224:ASN:ND2	2.11	0.84
41:Ey:35:VAL:O	41:Ey:38:THR:OG1	1.96	0.84
78:Aa:375:A:O3'	60:J:89:LYS:NZ	2.11	0.84
78:Aa:2931:C:O2'	57:G:42:SER:OG	1.95	0.84
6:Db:90:ARG:NH2	6:Db:91:VAL:O	2.11	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cy:309:ARG:NH1	78:1b:590:G:O2'	2.11	0.83
45:Iy:39:LYS:NZ	78:1b:1010:G:OP1	2.11	0.83
50:Oy:172[A]:ARG:NH1	78:1b:3190:C:OP1	2.11	0.83
76:ob:98:LYS:NZ	78:1b:2654:C:O3'	2.11	0.83
77:pb:17:ARG:NH1	78:1b:860:G:OP1	2.10	0.83
78:Aa:3165:A:N1	78:Aa:3285:C:N3	2.25	0.83
67:fy:6:ARG:NE	78:1b:3176:G:OP1	2.12	0.83
1:a:428:A:N3	1:a:440:U:O2'	2.12	0.83
1:a:1216:C:O2'	1:a:1444:A:N1	2.11	0.83
24:Wb:8:ALA:HB2	24:Wb:74:VAL:HG11	1.60	0.83
40:Dy:91:GLY:O	40:Dy:94:ASN:ND2	2.11	0.83
78:Aa:1043:C:O3'	45:La:90:ARG:NH2	2.10	0.83
78:Aa:1830:G:N2	36:Ca:115:C:OP1	2.11	0.83
6:Db:202:LEU:O	19:Rb:42:GLN:NE2	2.11	0.83
35:4b:52:G:H21	46:Jy:9:MET:HE1	1.43	0.83
58:Wy:44:LYS:NZ	78:1b:2111:G:O2'	2.11	0.83
11:Ib:162:ALA:O	78:1b:3352:U:O2'	1.95	0.83
38:By:269:GLN:NE2	78:1b:3306:U:OP1	2.10	0.83
1:a:1102:G:N7	25:y:2:GLY:N	2.27	0.83
38:Ea:83:PRO:O	38:Ea:165:GLN:NE2	2.11	0.83
38:Ea:303:LYS:NZ	38:Ea:359:ILE:O	2.11	0.83
48:My:133:LYS:NZ	78:1b:3227:A:O3'	2.11	0.83
50:Oy:21[A]:SER:OG	78:1b:1181:U:O4	1.95	0.83
3:c:190:PRO:O	3:c:195:LYS:NZ	2.10	0.83
9:h:64:LYS:NZ	9:h:82:SER:OG	2.10	0.83
78:Aa:190:U:OP1	60:J:37:LYS:NZ	2.11	0.83
78:Aa:718:G:OP1	62:L:117:ARG:NH2	2.10	0.83
1:2b:643:G:N2	1:2b:691:C:O2	2.11	0.83
1:a:421:A:OP1	9:h:95:LYS:NZ	2.11	0.83
78:Aa:3158:G:C6	78:Aa:3292:A:N1	2.46	0.83
1:2b:705:U:O2'	1:2b:706:A:O5'	1.96	0.83
36:3b:23:U:O5'	60:Yy:17:LYS:NZ	2.11	0.83
78:1b:2771:U:OP2	78:1b:2772:C:N4	2.11	0.83
1:a:1453:G:OP1	30:4:10:HIS:ND1	2.11	0.83
3:c:229:MET:O	3:c:232:HIS:O	1.97	0.83
78:Aa:353:G:O2'	78:Aa:364:G:O6	1.97	0.83
78:Aa:803:C:O2'	39:Fa:92:ASN:ND2	2.11	0.83
39:Fa:133:SER:O	39:Fa:137:ALA:N	2.12	0.83
37:Ay:21:ARG:NH1	78:1b:825:U:OP2	2.11	0.83
78:Aa:2750:U:OP2	55:E:69:LYS:NZ	2.11	0.83
1:2b:1767:G:O4'	1:2b:1768:G:N2	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:826:G:H21	78:Aa:1589:A:H61	1.25	0.83
78:Aa:904:A:HO2'	37:Da:14:SER:HG	1.11	0.83
70:T:34:SER:O	70:T:37:THR:OG1	1.96	0.83
52:Qy:178:ARG:NH2	78:1b:780:A:OP1	2.12	0.82
55:Ty:4:SER:OG	78:1b:2631:U:OP2	1.96	0.82
1:a:1760:G:O2'	1:a:1781:A:N1	2.12	0.82
78:Aa:751:A:OP1	63:M:44:LYS:NZ	2.11	0.82
78:Aa:1322:U:O2'	54:D:108:GLN:OE1	1.96	0.82
35:Bb:6:C:O2'	40:Ga:50:ARG:NH2	2.12	0.82
1:2b:148:A:N6	1:2b:166:C:N4	2.28	0.82
1:2b:566:C:OP2	25:Xb:66:SER:OG	1.96	0.82
2:Ab:140:ASN:ND2	23:Vb:31:SER:O	2.11	0.82
8:Fb:216:GLU:OE1	8:Fb:219:ARG:NH1	2.12	0.82
11:Ib:5:ARG:NH1	11:Ib:29:LEU:O	2.12	0.82
9:h:124:LEU:N	58:H:78:ALA:O	2.11	0.82
78:Aa:1063:G:N2	78:Aa:1097:G:O2'	2.12	0.82
8:Fb:92:ARG:NH2	8:Fb:169:ASN:OD1	2.12	0.82
36:3b:11:C:O3'	51:Py:3:ARG:NH1	2.12	0.82
53:Ry:62:ARG:NH1	78:1b:3068:U:OP2	2.13	0.82
78:1b:835:G:O2'	78:1b:857:G:N2	2.12	0.82
1:a:74:U:C4	58:H:116:LYS:CG	2.62	0.82
36:Ca:97:A:O2'	69:S:59:ASN:ND2	2.12	0.82
50:Qa:166:GLU:OE1	50:Qa:170:LYS:NZ	2.13	0.82
71:U:35:SER:O	71:U:45:ARG:NH2	2.12	0.82
56:Uy:101:ASN:N	78:1b:1677:G:OP1	2.13	0.82
78:Aa:76:G:O2'	47:Na:100:ARG:NH1	2.12	0.82
78:Aa:695:C:OP1	39:Fa:271:LYS:NZ	2.13	0.82
1:2b:1563:C:OP1	21:Tb:84:LYS:NZ	2.13	0.82
57:Vy:63:LYS:NZ	78:1b:2295:A:OP1	2.12	0.82
69:hb:85:THR:O	69:hb:89:ARG:NE	2.09	0.82
1:a:148:A:H62	1:a:166:C:N4	1.77	0.82
1:a:1542:G:N2	1:a:1569:A:OP2	2.11	0.82
78:Aa:1334:U:O2'	42:Ia:151:ARG:NH2	2.12	0.82
78:Aa:1412:G:OP1	66:P:105:ARG:NH2	2.12	0.82
78:Aa:1635:G:N2	78:Aa:1638:A:OP2	2.10	0.82
56:F:85:LYS:O	56:F:88:GLN:NE2	2.12	0.82
1:2b:1081:A:O2'	1:2b:1083:G:N7	2.13	0.82
51:Py:80:LYS:NZ	78:1b:2388:U:O3'	2.13	0.82
1:a:119:A:N6	1:a:298:C:O2	2.13	0.82
1:a:1481:C:O2'	1:a:1482:C:O5'	1.96	0.82
7:f:115:THR:OG1	7:f:117:GLU:O	1.96	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:664:U:O3'	49:Pa:203:ARG:NH1	2.12	0.82
78:Aa:2338:C:OP1	38:Ea:236:LYS:NZ	2.12	0.82
78:1b:1243:G:O2'	78:1b:1271:A:O2'	1.97	0.82
78:1b:2525:G:O2'	78:1b:2526:C:OP2	1.97	0.82
78:1b:2656:A:N1	78:1b:2713:U:C4	2.48	0.82
65:O:46:THR:O	65:O:87:ASN:ND2	2.12	0.82
1:a:64:U:O2'	1:a:168:A:N3	2.12	0.82
1:a:717:C:H42	1:a:720:G:H22	1.27	0.82
78:Aa:1766:G:OP2	53:C:46:LYS:NZ	2.13	0.82
26:Yb:78:SER:OG	26:Yb:81:GLU:OE1	1.97	0.82
1:a:534:A:OP1	12:k:168:ARG:NH2	2.13	0.82
3:c:69:CYS:SG	17:p:114:ARG:NH2	2.53	0.82
8:g:80:LYS:O	8:g:84:LYS:NZ	2.13	0.82
39:Fa:316:ASN:O	39:Fa:319:LYS:O	1.97	0.82
1:2b:230:C:O2	1:2b:236:A:N6	2.12	0.82
1:2b:819:G:C5	1:2b:853:G:C2	2.68	0.82
9:Gb:10:ASN:ND2	9:Gb:127:THR:O	2.13	0.82
9:Gb:21:GLU:OE1	9:Gb:25:ARG:NH2	2.13	0.82
36:3b:149:A:H61	78:1b:8:C:N4	1.78	0.82
78:1b:177:U:O2	78:1b:241:G:N1	2.10	0.82
1:a:74:U:N3	58:H:116:LYS:CG	2.43	0.82
44:Ka:12:VAL:O	44:Ka:50:ASN:O	1.98	0.82
1:2b:1528:U:OP2	8:Fb:109:LYS:NZ	2.11	0.81
3:Ba:30:PHE:O	3:Ba:45:LYS:HA	1.79	0.81
8:Fb:163:SER:OG	34:cb:47:PRO:O	1.98	0.81
39:Cy:46:LYS:NZ	78:1b:691:A:OP1	2.12	0.81
44:Hy:62:ARG:NH2	78:1b:3115:C:OP1	2.13	0.81
1:a:1035:G:OP1	16:o:2:GLY:N	2.13	0.81
38:By:194:TRP:O	38:By:198:HIS:ND1	2.12	0.81
41:Ey:42:LEU:O	41:Ey:49:GLY:N	2.12	0.81
78:1b:3165:A:N1	78:1b:3285:C:N4	2.26	0.81
1:a:280:U:O2'	1:a:281:G:OP2	1.98	0.81
9:h:126:ASP:H	58:H:78:ALA:HA	1.42	0.81
78:Aa:3353:G:O2'	78:Aa:3356:G:OP2	1.98	0.81
1:2b:332:U:O2'	11:Ib:5:ARG:NH2	2.13	0.81
54:Sy:22:PRO:O	55:Ty:146:ASN:ND2	2.13	0.81
78:1b:720:A:O2'	78:1b:784:A:OP2	1.98	0.81
1:a:74:U:C4	58:H:116:LYS:CD	2.64	0.81
1:a:558:U:OP2	31:5:55:ARG:NH2	2.13	0.81
1:a:623:A:N6	1:a:970:A:OP1	2.13	0.81
1:a:656:G:O2'	1:a:657:U:O4'	1.97	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:2167:A:OP1	49:Pa:72:LYS:NZ	2.12	0.81
1:2b:1615:C:O2'	1:2b:1616:G:OP2	1.96	0.81
78:1b:1239:C:O2	78:1b:1249:G:N2	2.12	0.81
1:a:972:G:O2'	78:Aa:847:A:N1	2.13	0.81
61:K:129:TRP:O	61:K:132:SER:OG	1.98	0.81
56:Uy:100:THR:OG1	56:Uy:101:ASN:ND2	2.14	0.81
1:a:415:C:O2	1:a:418:G:N1	2.13	0.81
78:Aa:120:G:N2	43:Ja:123:GLN:O	2.14	0.81
78:Aa:999:G:N3	78:Aa:1002:A:N6	2.28	0.81
78:Aa:1024:G:N2	78:Aa:1026:A:OP2	2.14	0.81
78:Aa:1544:G:O2'	78:Aa:2167:A:O2'	1.98	0.81
49:Pa:73:ARG:NH1	49:Pa:88:GLY:O	2.13	0.81
1:2b:1452:U:OP1	30:db:10:HIS:ND1	2.13	0.81
36:3b:75:G:OP2	73:1b:31:THR:OG1	1.99	0.81
44:Hy:184:LYS:NZ	78:1b:3111:U:OP1	2.14	0.81
66:ey:47:ARG:NH2	78:1b:634:C:O3'	2.13	0.81
1:a:900:A:OP1	17:p:43:THR:OG1	1.98	0.81
1:a:1552:U:OP2	4:q:43:ARG:NH2	2.13	0.81
78:Aa:744:A:OP1	52:B:66:ARG:NH2	2.14	0.81
78:Aa:1115:G:N2	78:Aa:1115:G:OP2	2.14	0.81
41:Ha:35:VAL:O	41:Ha:38:THR:OG1	1.98	0.81
61:Zy:56:LYS:NZ	78:1b:2574:G:OP2	2.13	0.81
78:1b:3154:C:N3	78:1b:3157:U:O4	2.13	0.81
5:d:173:PRO:O	5:d:176:SER:OG	1.98	0.81
78:Aa:2899:C:O2'	78:Aa:2901:G:OP2	1.97	0.81
1:2b:819:G:C6	1:2b:853:G:C2	2.68	0.81
65:dy:26:LYS:NZ	78:1b:1456:A:N7	2.29	0.81
72:kb:42:LYS:NZ	78:1b:1748:G:OP2	2.13	0.81
4:Pb:18:ARG:NH1	20:Sb:90:ASN:O	2.14	0.81
38:By:50:LYS:NZ	38:By:330:GLY:O	2.13	0.81
49:Ny:144:ARG:NH1	78:1b:126:U:OP1	2.13	0.81
50:Oy:49[A]:ARG:NH1	78:1b:1315:U:O4	2.14	0.81
53:Ry:62:ARG:NH2	78:1b:3070:A:OP1	2.13	0.81
1:a:851:U:O3'	53:C:172:ARG:NH1	2.14	0.81
1:a:1186:U:OP2	1:a:1456:C:O2'	1.99	0.81
78:Aa:95:A:OP1	62:L:52:TYR:OH	1.99	0.81
4:Pb:89:MET:O	4:Pb:92:SER:OG	1.98	0.81
50:Oy:18[A]:ARG:NH2	78:1b:1314:C:O2'	2.14	0.81
78:1b:1176:C:OP2	78:1b:1177:G:O2'	1.99	0.81
1:a:1564:U:O2'	20:t:84:TRP:O	1.98	0.81
78:Aa:714:G:O6	62:L:70:LYS:NZ	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:1815:U:O2'	78:Aa:1816:A:OP2	1.98	0.81
49:Pa:192:LYS:O	49:Pa:196:THR:OG1	1.99	0.81
1:2b:1069:A:OP1	2:Ab:28:ASN:ND2	2.15	0.80
21:Tb:113:ILE:O	21:Tb:125:SER:OG	1.99	0.80
68:gy:56:THR:OG1	78:1b:1739:U:O2'	1.98	0.80
74:mb:100:TYR:OH	78:1b:2848:G:OP1	1.99	0.80
1:a:25:C:O2'	1:a:366:A:O2'	1.99	0.80
36:Ca:57:C:HO2'	36:Ca:61:A:HO2'	1.27	0.80
1:2b:1484:G:N2	1:2b:1606:C:O2	2.13	0.80
37:Ay:9:ARG:NH1	78:1b:912:G:OP2	2.14	0.80
39:Cy:163:LYS:NZ	78:1b:208:C:OP2	2.14	0.80
1:a:1556:A:N6	30:4:14:TYR:OH	2.14	0.80
78:Aa:1493:G:OP2	78:Aa:1493:G:N2	2.14	0.80
78:Aa:1872:C:O3'	53:C:56:THR:OG1	2.00	0.80
36:Ca:150:G:O2'	36:Ca:152:G:OP1	1.98	0.80
48:Oa:19:ARG:NH2	48:Oa:66:THR:O	2.14	0.80
1:2b:471:A:O2'	12:Jb:9:SER:O	1.98	0.80
1:2b:1001:A:OP1	79:6b:38:A:O2'	1.99	0.80
10:Hb:133:THR:OG1	10:Hb:134:GLU:N	2.12	0.80
33:gb:248:ASN:ND2	33:gb:297:ASP:O	2.14	0.80
78:Aa:1546:A:N7	49:Pa:71:ARG:NH1	2.29	0.80
1:2b:272:U:O2	1:2b:284:G:N2	2.14	0.80
1:a:566:C:O2	31:5:13:LYS:NZ	2.13	0.80
1:a:812:A:O4'	1:a:858:G:N2	2.14	0.80
78:Aa:1411:C:OP1	66:P:98:HIS:ND1	2.13	0.80
78:Aa:2441:A:N6	78:Aa:2506:U:O2	2.14	0.80
38:By:240:ARG:NH2	78:1b:874:U:OP2	2.13	0.80
78:1b:1064:A:N1	78:1b:1092:C:N3	2.30	0.80
1:a:272:U:O2	1:a:284:G:N2	2.13	0.80
1:a:987:G:O2'	1:a:1015:U:O4	2.00	0.80
9:h:10:ASN:ND2	9:h:125:THR:O	2.15	0.80
78:Aa:2852:C:N3	45:La:158:LYS:NZ	2.28	0.80
1:2b:1315:U:OP1	1:2b:1328:G:N2	2.13	0.80
53:Ry:125:LYS:NZ	78:1b:840:C:O3'	2.14	0.80
78:1b:1716:U:O2'	78:1b:1717:U:O5'	2.00	0.80
1:a:43:A:O2'	1:a:99:C:OP1	1.99	0.80
1:a:74:U:C6	58:H:116:LYS:CD	2.64	0.80
1:a:741:C:O2'	1:a:742:U:O4'	1.98	0.80
7:f:11:ARG:NH1	7:f:21:ASP:OD1	2.13	0.80
78:Aa:884:A:OP2	78:Aa:2139:A:N6	2.14	0.80
49:Pa:73:ARG:NH1	49:Pa:86:ASN:O	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Kb:78:GLU:O	13:Kb:81:ASN:ND2	2.14	0.80
26:Yb:129:VAL:O	26:Yb:133:ASN:N	2.15	0.80
1:a:1235:C:O2	32:6:138:ARG:NH1	2.15	0.80
20:t:12:GLN:NE2	20:t:13:HIS:O	2.14	0.80
78:Aa:1639:C:OP2	68:R:74:ARG:NH2	2.13	0.80
78:Aa:2608:G:OP1	37:Da:2:GLY:N	2.15	0.80
1:2b:475:A:OP1	12:Jb:126:ARG:NH1	2.15	0.80
1:2b:1257:U:O4'	13:Kb:5:LYS:NZ	2.14	0.80
38:By:35:ASP:OD2	38:By:37:ARG:NH1	2.15	0.80
78:1b:1302:A:N6	78:1b:2857:C:O2	2.15	0.80
5:d:58:LEU:O	23:w:15:ARG:NE	2.15	0.80
78:Aa:1225:A:O2'	78:Aa:3116:G:OP1	1.97	0.80
78:Aa:2712:U:O2'	78:Aa:2743:A:O2'	1.98	0.80
78:Aa:3092:C:O2'	78:Aa:3094:A:OP2	1.99	0.80
1:2b:876:G:O6	1:2b:935:U:N3	2.14	0.80
1:2b:1453:G:N2	4:Pb:99:GLY:O	2.14	0.80
12:Jb:18:PRO:O	12:Jb:23:ARG:NH2	2.15	0.80
1:a:74:U:N3	58:H:116:LYS:CD	2.45	0.80
11:j:117:TYR:O	11:j:119:GLN:NE2	2.15	0.80
78:Aa:66:A:N6	78:Aa:75:G:N2	2.29	0.80
78:Aa:2991:A:O3'	38:Ea:21:ARG:NH2	2.15	0.80
41:Ha:69:PHE:O	41:Ha:73:GLY:N	2.14	0.80
1:2b:786:C:OP1	7:Eb:240:LYS:NZ	2.15	0.80
1:2b:1534:G:OP1	20:Sb:57:ARG:NH2	2.14	0.80
34:cb:65:ARG:NH2	34:cb:67:ARG:O	2.14	0.80
41:Ey:53:VAL:O	41:Ey:65:ILE:HG23	1.82	0.80
47:Ly:100:ARG:NH1	78:1b:66:A:OP2	2.15	0.80
5:d:76:LEU:O	5:d:133:LYS:NZ	2.15	0.80
78:Aa:284:A:OP2	76:Z:38:GLN:NE2	2.14	0.80
36:Ca:57:C:OP2	71:U:68:LYS:NZ	2.14	0.80
42:Fy:208:SER:OG	42:Fy:209:ASN:O	1.98	0.79
78:1b:2206:G:N3	78:1b:2207:A:N6	2.29	0.79
1:a:206:A:OP1	7:f:133:LYS:NZ	2.13	0.79
1:a:1397:U:OP2	1:a:1399:C:N4	2.14	0.79
54:D:71:LYS:O	54:D:73:LYS:NZ	2.10	0.79
1:2b:159:U:O2'	9:Gb:87:ARG:NH1	2.15	0.79
1:2b:322:G:O2'	1:2b:323:A:OP2	1.99	0.79
1:2b:568:G:C6	1:2b:576:G:C2	2.70	0.79
45:Iy:15:LYS:NZ	78:1b:1125:U:OP1	2.16	0.79
1:a:787:G:OP2	7:f:240:LYS:NZ	2.15	0.79
78:Aa:503:C:O2	41:Ha:23:LYS:NZ	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:1382:G:OP2	39:Fa:188:ARG:NH1	2.14	0.79
78:Aa:1906:G:H21	78:Aa:1909:A:H61	1.27	0.79
78:Aa:2157:G:N7	37:Da:152:SER:OG	2.13	0.79
78:Aa:2940:A:N7	38:Ea:2:SER:N	2.30	0.79
40:Ga:120:LYS:O	40:Ga:248:ARG:NH2	2.15	0.79
1:2b:821:U:O4	1:2b:852:C:N3	2.16	0.79
18:Qb:50:GLU:OE2	18:Qb:112:TYR:OH	2.00	0.79
63:by:19:ASN:ND2	78:1b:970:A:OP2	2.15	0.79
78:1b:600:G:N2	78:1b:603:A:C8	2.51	0.79
1:a:1081:A:O2'	1:a:1082:C:O2	2.00	0.79
1:a:1543:A:N6	1:a:1568:C:O4'	2.16	0.79
78:Aa:2585:G:N7	43:Ja:47:SER:OG	2.14	0.79
1:a:127:G:O6	9:h:199:GLN:NE2	2.15	0.79
1:a:151:G:N2	9:h:13:GLN:OE1	2.13	0.79
1:a:1304:G:OP2	1:a:1305:U:O2'	2.00	0.79
8:g:183:ALA:HB2	8:g:193:THR:HG21	1.64	0.79
78:Aa:2941:A:OP2	38:Ea:256:HIS:ND1	2.15	0.79
14:Lb:16:GLN:NE2	14:Lb:61:THR:O	2.16	0.79
1:a:151:G:O6	26:z:124:ARG:NH2	2.16	0.79
7:f:118:GLU:OE2	7:f:237:SER:N	2.15	0.79
78:Aa:599:C:OP1	39:Fa:332:LYS:NZ	2.15	0.79
35:Bb:49:G:O2'	40:Ga:58:LYS:NZ	2.14	0.79
58:H:4:GLU:O	58:H:12:LYS:HA	1.82	0.79
1:2b:245:U:N3	1:2b:248:U:OP2	2.16	0.79
16:Nb:151:ASN:ND2	64:cy:80:ALA:O	2.15	0.79
38:By:211:GLN:NE2	38:By:283:TYR:O	2.15	0.79
68:gy:105:VAL:O	68:gy:109:THR:OG1	2.00	0.79
78:1b:1238:C:N4	78:1b:1245:A:OP2	2.15	0.79
78:1b:1778:G:O2'	78:1b:1780:G:OP2	1.99	0.79
1:a:155:U:O4	26:z:132:ARG:NH2	2.15	0.79
1:a:1459:C:OP2	20:t:138:THR:OG1	2.00	0.79
78:Aa:1431:G:OP2	62:L:12:ARG:NH1	2.14	0.79
1:2b:512:A:O2'	12:Jb:131:GLN:OE1	2.00	0.79
53:Ry:74:ARG:O	53:Ry:76:SER:OG	2.01	0.79
66:ey:8:LYS:NZ	78:1b:496:C:OP1	2.15	0.79
78:1b:518:G:N2	78:1b:518:G:OP2	2.15	0.79
78:1b:551:A:O2'	78:1b:552:G:O5'	2.00	0.79
78:1b:1134:G:O2'	78:1b:2642:A:N3	2.16	0.79
1:a:1245:G:O6	1:a:1250:U:O4	2.01	0.79
1:a:1558:U:OP1	20:t:122:HIS:ND1	2.15	0.79
17:p:84:ARG:NH2	17:p:86:THR:O	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:227:U:N3	1:2b:235:G:O6	2.16	0.79
16:Nb:25:TRP:O	16:Nb:27:LYS:NZ	2.16	0.79
26:Yb:89:TYR:OH	26:Yb:90:ARG:NH2	2.16	0.79
37:Ay:70:ARG:NH1	78:1b:1650:G:O3'	2.15	0.79
39:Cy:342:LYS:O	78:1b:515:C:O2'	1.99	0.79
71:jb:30:GLN:NE2	78:1b:904:A:OP2	2.16	0.79
78:1b:450:G:N7	78:1b:487:U:O2'	2.16	0.79
78:1b:1896:A:N6	78:1b:2339:C:N4	2.30	0.79
1:a:1608:U:OP1	18:r:15:SER:OG	2.00	0.79
78:Aa:1545:A:N7	49:Pa:105:ARG:NH2	2.31	0.79
61:K:9:LYS:NZ	61:K:85:TYR:O	2.14	0.79
1:2b:704:C:H42	1:2b:734:A:N6	1.81	0.79
28:ab:51:ARG:NH1	34:cb:37:SER:OG	2.15	0.79
32:fb:141:CYS:SG	32:fb:142:GLY:N	2.56	0.79
37:Ay:6:ARG:NH2	78:1b:2184:U:OP2	2.16	0.79
78:Aa:1084:A:OP1	55:E:35:LYS:NZ	2.15	0.79
78:Aa:1116:G:N2	78:Aa:2817:A:O4'	2.16	0.79
1:2b:330:G:OP2	11:Ib:172:ARG:NH1	2.15	0.79
1:2b:392:G:OP1	11:Ib:2:GLY:N	2.16	0.79
1:2b:568:G:C6	1:2b:576:G:N2	2.51	0.79
1:2b:1321:A:OP2	2:Ab:101:ARG:NH2	2.16	0.79
55:Ty:116:ARG:HA	55:Ty:126:VAL:HG11	1.65	0.79
1:a:74:U:O2'	1:a:75:U:O5'	1.99	0.79
1:a:405:C:O2'	9:h:92:ARG:O	2.00	0.79
1:a:870:C:O2	29:2:51:GLN:NE2	2.16	0.79
1:a:1789:G:OP2	17:p:132:ARG:NH2	2.16	0.79
11:j:36:THR:OG1	11:j:96:LEU:O	2.00	0.79
36:Ca:141:C:OP1	49:Pa:109:ARG:NH1	2.16	0.79
1:2b:1504:G:OP1	21:Tb:97:SER:OG	2.00	0.78
23:Vb:74:GLN:NE2	23:Vb:80:LYS:O	2.16	0.78
49:Ny:193:ARG:NH1	78:1b:80:G:OP1	2.16	0.78
78:Aa:1832:C:OP1	59:I:120:LYS:NZ	2.15	0.78
35:Bb:121:U:OP2	40:Ga:265:TYR:OH	2.00	0.78
42:Fy:110:ARG:NH2	78:1b:1364:C:OP1	2.16	0.78
45:Iy:189:GLU:OE1	45:Iy:189:GLU:N	2.16	0.78
78:1b:1695:U:O2'	78:1b:1749:A:N1	2.16	0.78
1:a:446:A:N1	1:a:461:G:O2'	2.16	0.78
1:a:1001:A:OP1	79:8:38:A:O2'	2.00	0.78
50:Qa:10:ASP:OD2	50:Qa:37:ARG:NE	2.16	0.78
1:2b:68:A:OP1	9:Gb:160:ARG:NH2	2.17	0.78
36:3b:100:U:O2'	59:Xy:89:LYS:NZ	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:1b:398:A:O2'	78:1b:1416:C:OP1	2.01	0.78
78:1b:2567:C:O2	78:1b:2574:G:N2	2.15	0.78
1:a:324:U:O4'	1:a:346:G:N2	2.13	0.78
1:a:521:A:N3	26:z:34:ASN:ND2	2.31	0.78
1:a:706:A:N6	1:a:731:C:O2'	2.16	0.78
1:a:1617:U:O2	1:a:1619:C:N4	2.16	0.78
78:Aa:279:U:O4	76:Z:45:ARG:NH2	2.15	0.78
78:Aa:518:G:N2	78:Aa:520:U:O3'	2.16	0.78
78:Aa:1135:A:OP2	63:M:5:LYS:NZ	2.15	0.78
47:Na:59:ARG:NH2	47:Na:67:ARG:O	2.15	0.78
46:Jy:142:LYS:NZ	78:1b:2664:C:OP2	2.10	0.78
78:1b:3092:C:O2'	78:1b:3094:A:OP2	2.02	0.78
78:Aa:1544:G:OP1	49:Pa:127:TYR:OH	2.02	0.78
37:Da:77:ILE:O	37:Da:79:ASN:ND2	2.17	0.78
1:2b:1235:C:N3	32:fb:138:ARG:NH1	2.32	0.78
59:Xy:39:LYS:NZ	78:1b:14:U:OP1	2.16	0.78
78:1b:441:U:OP2	78:1b:490:C:N4	2.15	0.78
78:1b:1564:U:C4	78:1b:1576:G:O6	2.37	0.78
1:a:505:A:N1	1:a:507:U:C4	2.52	0.78
1:a:886:U:O2'	17:p:121:VAL:O	2.02	0.78
7:f:11:ARG:NH1	7:f:21:ASP:O	2.17	0.78
65:O:9:THR:OG1	65:O:111:GLU:OE2	2.00	0.78
7:Eb:112:HIS:NE2	7:Eb:237:SER:O	2.16	0.78
28:ab:83:ILE:O	28:ab:85:ARG:N	2.16	0.78
44:Hy:9:GLN:OE1	44:Hy:54:LYS:NZ	2.17	0.78
78:1b:68:C:OP2	78:1b:301:G:N2	2.17	0.78
1:a:31:C:O3'	25:y:139:LYS:NZ	2.17	0.78
1:a:1310:U:C2	1:a:1316:G:C2	2.72	0.78
78:Aa:953:G:OP1	63:M:15:LYS:NZ	2.17	0.78
78:Aa:1348:U:OP2	52:B:39:ARG:NH2	2.16	0.78
78:Aa:3165:A:H61	78:Aa:3285:C:H42	0.81	0.78
1:2b:170:U:OP1	1:2b:267:U:O2'	2.02	0.78
6:Db:74:GLN:NE2	6:Db:79:TYR:O	2.16	0.78
19:Rb:100:LEU:O	19:Rb:120:SER:N	2.17	0.78
38:By:166:ILE:O	38:By:169:THR:OG1	2.01	0.78
59:Xy:100:LYS:NZ	59:Xy:106:ASP:OD1	2.17	0.78
70:ib:68:ARG:NH1	78:1b:2218:G:OP1	2.16	0.78
5:d:176:SER:N	5:d:195:ASP:OD1	2.17	0.78
9:h:163:THR:HG22	9:h:168:THR:HG22	1.66	0.78
78:Aa:1657:C:N4	78:Aa:1798:A:OP2	2.17	0.78
78:Aa:2521:U:O2'	78:Aa:2524:A:OP1	2.00	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:2992:U:OP1	78:Aa:3310:A:O2'	2.01	0.78
48:Oa:19:ARG:NH2	48:Oa:68:LEU:O	2.17	0.78
1:2b:487:G:N1	1:2b:501:U:C2	2.51	0.78
1:2b:987:G:N2	1:2b:1013:A:OP1	2.16	0.78
38:By:116:ARG:NE	38:By:174:LYS:O	2.15	0.78
42:Fy:33:ARG:O	42:Fy:37:ASN:ND2	2.17	0.78
42:Fy:41:ARG:NH1	78:1b:597:G:O3'	2.17	0.78
45:Iy:209:ASN:O	45:Iy:212:GLU:O	2.02	0.78
52:Qy:123:THR:OG1	52:Qy:125:ASP:OD1	1.99	0.78
55:Ty:92:ARG:NH2	78:1b:2736:A:OP1	2.17	0.78
58:Wy:48:ARG:NH1	78:1b:2112:U:OP2	2.16	0.78
78:1b:2568:C:O2'	78:1b:2569:A:O5'	2.02	0.78
1:a:987:G:N2	1:a:1014:G:OP2	2.16	0.78
27:0:46:LYS:NZ	27:0:70:LYS:O	2.15	0.78
68:R:41:ARG:O	68:R:43:LYS:NZ	2.16	0.78
1:2b:758:U:OP1	7:Eb:22:LYS:NZ	2.17	0.78
31:eb:24:THR:O	31:eb:26:LYS:NZ	2.16	0.78
39:Cy:347:THR:OG1	78:1b:520:U:O4	2.02	0.78
1:a:404:G:O5'	9:h:88:ARG:NH1	2.16	0.78
20:t:62:THR:OG1	20:t:65:GLU:OE1	2.01	0.78
1:2b:129:U:O2'	1:2b:131:C:N4	2.17	0.78
1:2b:565:C:OP2	1:2b:577:G:O2'	2.02	0.78
1:2b:1227:A:OP1	1:2b:1229:G:O2'	2.01	0.78
20:Sb:17:LEU:O	20:Sb:20:THR:OG1	2.01	0.78
65:dy:62:ARG:NH2	78:1b:3074:G:O5'	2.17	0.78
72:kb:12:LEU:O	72:kb:15:THR:OG1	2.02	0.78
1:a:74:U:C6	58:H:116:LYS:CG	2.66	0.78
1:a:331:A:OP1	11:j:56:ARG:NH1	2.17	0.78
1:a:557:G:OP1	31:5:55:ARG:NH2	2.16	0.78
1:a:630:A:N6	1:a:969:C:O2	2.13	0.78
78:Aa:1193:A:O2'	78:Aa:1298:C:OP1	2.02	0.78
52:B:123:THR:OG1	52:B:125:ASP:OD1	2.01	0.78
1:2b:189:C:N4	1:2b:196:G:O6	2.16	0.77
16:Nb:83:GLU:OE1	16:Nb:83:GLU:N	2.17	0.77
35:4b:31:U:O2'	40:Dy:218:ARG:NH1	2.17	0.77
35:4b:53:U:O2	35:4b:55:A:N6	2.17	0.77
39:Cy:186:LYS:NZ	78:1b:1389:G:O6	2.15	0.77
49:Ny:2:GLY:N	78:1b:117:U:OP2	2.17	0.77
65:dy:56:ASN:ND2	78:1b:1458:U:O2	2.16	0.77
77:pb:3:LYS:NZ	78:1b:851:C:OP2	2.17	0.77
77:pb:55:TRP:NE1	77:pb:70:THR:O	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1537:C:O2'	1:a:1540:G:N7	2.16	0.77
5:d:245:ASP:O	5:d:248:SER:OG	2.00	0.77
78:Aa:93:C:OP2	78:Aa:2764:C:O2'	2.00	0.77
78:Aa:1320:C:O2	54:D:115:ARG:NH2	2.17	0.77
78:Aa:3192:U:OP1	50:Qa:176:LYS:NZ	2.12	0.77
1:2b:337:G:O2'	11:Ib:10:LYS:NZ	2.16	0.77
1:2b:1020:A:OP2	16:Nb:106:ARG:NH2	2.16	0.77
7:Eb:132:GLY:N	7:Eb:136:VAL:O	2.17	0.77
47:Ly:126:PHE:O	69:hb:114:ARG:NH2	2.17	0.77
63:by:15:LYS:NZ	78:1b:953:G:OP1	2.13	0.77
78:1b:1307:G:O2'	78:1b:1308:A:OP2	2.02	0.77
9:h:33:GLY:N	9:h:52:ILE:O	2.16	0.77
78:Aa:644:G:N2	78:Aa:2372:A:O4'	2.17	0.77
78:Aa:820:A:N3	78:Aa:911:C:O2'	2.17	0.77
37:Da:180:LEU:HD11	77:aa:26:VAL:HG21	1.66	0.77
80:ba:72:ASP:OD1	80:ba:191:TYR:OH	2.01	0.77
1:2b:955:A:OP1	16:Nb:3:ARG:NE	2.16	0.77
58:Wy:4:GLU:O	58:Wy:12:LYS:HA	1.84	0.77
66:ey:95:GLU:OE1	66:ey:121:ASN:ND2	2.17	0.77
70:ib:79:SER:OG	70:ib:80:PHE:N	2.16	0.77
78:1b:239:G:N2	78:1b:241:G:O6	2.16	0.77
78:1b:364:G:O2'	78:1b:365:A:O4'	2.01	0.77
1:a:850:A:O2'	1:a:851:U:OP1	2.03	0.77
78:Aa:1627:U:N3	78:Aa:1817:G:C6	2.52	0.77
78:Aa:1816:A:O2'	78:Aa:1817:G:OP1	2.03	0.77
1:2b:707:A:N6	1:2b:733:A:OP1	2.16	0.77
1:2b:1362:U:O2'	1:2b:1363:U:O2	2.03	0.77
8:Fb:102:ARG:O	8:Fb:106:LYS:NZ	2.15	0.77
41:Ey:51:ARG:NH2	41:Ey:162:SER:O	2.18	0.77
44:Hy:43:VAL:O	78:1b:3186:A:O2'	2.02	0.77
74:mb:83:LYS:O	74:mb:87:SER:OG	1.99	0.77
78:1b:2268:U:O2	78:1b:2272:G:N2	2.17	0.77
78:Aa:1875:G:N7	53:C:20:ARG:NH2	2.32	0.77
1:2b:1213:G:O2'	1:2b:1242:A:N6	2.18	0.77
78:1b:1016:C:N4	78:1b:2672:G:OP2	2.18	0.77
78:1b:1564:U:N3	78:1b:1576:G:C6	2.52	0.77
1:a:56:U:O2	1:a:91:G:N2	2.18	0.77
1:a:1118:G:OP1	75:Y:21:ARG:NH1	2.18	0.77
78:Aa:1079:A:OP2	40:Ga:140:ARG:NH1	2.17	0.77
1:2b:195:G:N7	11:Ib:137:LYS:NZ	2.31	0.77
22:Ub:80:GLU:OE1	30:db:44:ARG:NH1	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Zb:35:ARG:NH1	27:Zb:35:ARG:O	2.17	0.77
51:Py:47:TYR:OH	51:Py:57:ALA:O	2.01	0.77
60:Yy:37:LYS:NZ	78:1b:190:U:OP1	2.17	0.77
74:mb:97:ARG:NH1	74:mb:121:LEU:O	2.17	0.77
76:ob:30:ALA:O	78:1b:2767:U:O2'	2.01	0.77
1:a:479:C:O2	1:a:510:G:N2	2.18	0.77
1:a:1420:C:OP1	30:4:54:LYS:NZ	2.17	0.77
1:a:1604:U:O2'	22:v:66:SER:OG	2.01	0.77
28:1:74:CYS:HB3	28:1:77:CYS:SG	2.25	0.77
78:Aa:43:A:C6	78:Aa:2802:A:N1	2.52	0.77
78:Aa:377:A:N6	78:Aa:400:G:O2'	2.16	0.77
78:Aa:3110:C:O2'	44:Ka:155:SER:OG	2.01	0.77
79:8:55:U:O2'	79:8:57:G:N7	2.18	0.77
1:2b:540:G:C2	1:2b:542:A:N6	2.52	0.77
38:By:303:LYS:NZ	38:By:359:ILE:O	2.15	0.77
45:Iy:90:ARG:NH1	78:1b:1043:C:O3'	2.16	0.77
51:Py:14:SER:O	51:Py:105:LYS:NZ	2.18	0.77
1:a:123:G:OP1	7:f:77:ARG:NH2	2.18	0.77
1:a:1522:U:O2'	21:u:78:LYS:NZ	2.17	0.77
1:a:1774:G:N7	75:Y:4:LYS:NZ	2.32	0.77
7:f:62:LYS:NZ	7:f:78:THR:O	2.18	0.77
78:Aa:1502:C:N4	78:Aa:1515:A:C6	2.52	0.77
8:Fb:198:LEU:O	8:Fb:202:ALA:N	2.17	0.77
46:Jy:52:TYR:OH	78:1b:2679:A:O2'	2.03	0.77
55:Ty:69:LYS:NZ	78:1b:2750:U:OP2	2.16	0.77
1:a:445:A:N1	1:a:462:G:O2'	2.17	0.77
78:Aa:1062:A:O2'	78:Aa:1063:G:OP2	2.01	0.77
78:Aa:3195:U:O2'	78:Aa:3197:G:N2	2.18	0.77
36:Ca:94:C:OP1	71:U:75:LYS:NZ	2.16	0.77
39:Fa:3:ARG:NH1	39:Fa:22:LEU:O	2.16	0.77
78:1b:2899:C:O2'	78:1b:2901:G:OP2	2.03	0.77
1:a:332:U:OP2	11:j:54:LYS:NZ	2.18	0.77
1:a:1798:U:OP2	28:1:38:ARG:NH2	2.17	0.77
6:e:161:GLY:O	6:e:164:VAL:N	2.17	0.77
78:Aa:342:A:O2'	78:Aa:368:G:N7	2.17	0.77
78:Aa:1482:A:OP2	78:Aa:1858:A:O2'	2.02	0.77
78:Aa:1671:C:OP1	53:C:60:LYS:NZ	2.16	0.77
78:Aa:2696:A:N7	78:Aa:2758:A:N6	2.33	0.77
40:Ga:53:VAL:O	40:Ga:54:ARG:NH1	2.16	0.77
1:2b:1217:A:O3'	13:Kb:44:LYS:NZ	2.18	0.77
42:Fy:70:LYS:NZ	78:1b:519:A:O5'	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:My:96:ALA:O	48:My:101:LYS:NZ	2.15	0.77
78:1b:2419:A:OP2	78:1b:2606:G:N2	2.17	0.77
1:a:1597:A:C4	30:4:14:TYR:CA	2.68	0.77
16:o:55:ARG:NH1	16:o:56:ASP:OD1	2.18	0.77
23:w:84:SER:OG	23:w:86:SER:O	2.02	0.77
78:Aa:197:G:O2'	78:Aa:218:G:N2	2.17	0.77
78:Aa:649:A:OP2	78:Aa:2868:U:O2'	2.01	0.77
78:Aa:1103:A:O2'	78:Aa:1104:G:OP1	2.01	0.77
78:Aa:2335:G:N2	78:Aa:2339:C:O2'	2.18	0.77
78:Aa:2910:A:O2'	78:Aa:3130:A:N1	2.18	0.77
38:Ea:204:ALA:O	38:Ea:207:SER:OG	2.03	0.77
24:Wb:31:SER:OG	24:Wb:32:LYS:N	2.13	0.76
50:Oy:85[A]:ARG:NH2	78:1b:2383:C:OP2	2.18	0.76
51:Py:141:SER:OG	78:1b:2355:G:OP1	2.03	0.76
52:Qy:66:ARG:NH1	78:1b:785:G:OP2	2.18	0.76
60:Yy:86:THR:OG1	60:Yy:94:SER:OG	2.03	0.76
30:4:23:VAL:HG21	30:4:46:LYS:HE3	1.66	0.76
78:Aa:148:G:OP2	49:Pa:4:TYR:OH	2.02	0.76
78:Aa:560:G:OP1	48:Oa:83:LYS:NZ	2.14	0.76
47:Na:90:ALA:O	47:Na:93:ILE:O	2.02	0.76
1:2b:620:A:OP2	1:2b:621:A:OP2	2.03	0.76
1:2b:1534:G:O2'	1:2b:1535:U:O5'	2.01	0.76
1:2b:1558:U:OP2	1:2b:1559:A:O2'	2.01	0.76
52:Qy:180:ARG:NE	78:1b:2790:A:OP2	2.18	0.76
78:1b:443:G:N2	78:1b:492:C:O2	2.19	0.76
1:a:779:U:O2'	1:a:782:U:OP1	2.02	0.76
1:a:866:G:OP1	16:o:3:ARG:NH2	2.18	0.76
78:Aa:89:A:N7	52:B:171:LYS:NZ	2.32	0.76
1:2b:819:G:O6	1:2b:853:G:C6	2.38	0.76
1:2b:1448:G:OP1	1:2b:1449:U:OP2	2.02	0.76
5:Cb:179:VAL:O	5:Cb:198:THR:OG1	2.02	0.76
17:Ob:17:ALA:O	17:Ob:29:HIS:O	2.02	0.76
36:3b:60:U:OP2	59:Xy:61:LYS:NZ	2.18	0.76
39:Cy:341:SER:OG	78:1b:514:G:N3	2.19	0.76
76:ob:13:LYS:NZ	78:1b:2717:U:O3'	2.16	0.76
78:1b:362:U:O2'	78:1b:928:C:O2'	2.03	0.76
1:a:284:G:N7	9:h:188:ARG:NH1	2.33	0.76
1:a:788:A:OP2	7:f:108:ARG:NH1	2.18	0.76
1:2b:394:C:N4	1:2b:401:A:H62	1.84	0.76
9:Gb:159:ARG:NE	9:Gb:170:THR:OG1	2.19	0.76
13:Kb:45:ALA:O	13:Kb:48:SER:OG	2.03	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Kb:48:SER:O	13:Kb:51:SER:OG	2.03	0.76
17:Ob:61:MET:SD	17:Ob:65:GLN:NE2	2.59	0.76
45:Iy:3:ARG:NH1	45:Iy:63:GLU:OE2	2.17	0.76
65:dy:44:MET:O	65:dy:77:ARG:NH1	2.18	0.76
78:1b:1467:A:O2'	78:1b:1469:C:OP2	2.03	0.76
1:a:532:U:O2'	26:z:33:ALA:O	2.02	0.76
1:a:1466:G:O2'	1:a:1602:C:OP1	2.01	0.76
28:1:21:VAL:O	28:1:29:SER:HA	1.85	0.76
47:Na:90:ALA:O	47:Na:93:ILE:C	2.29	0.76
41:Ey:164:SER:O	41:Ey:166:LYS:NZ	2.15	0.76
46:Jy:32:ARG:NH1	46:Jy:120:ILE:O	2.19	0.76
78:1b:1693:C:HO2'	78:1b:1772:U:HO2'	1.30	0.76
78:1b:3258:U:O2'	78:1b:3260:G:OP1	2.02	0.76
1:a:1790:A:OP1	28:1:12:LYS:NZ	2.17	0.76
22:v:60:THR:OG1	22:v:86:ILE:O	2.01	0.76
78:Aa:597:G:OP1	42:Ia:40:LYS:NZ	2.17	0.76
1:2b:742:U:O2'	10:Hb:107:ARG:NE	2.18	0.76
1:2b:939:A:OP1	16:Nb:114:ARG:NH2	2.18	0.76
3:Ba:10:SER:OG	3:Ba:13:LYS:O	2.04	0.76
1:a:332:U:OP1	11:j:56:ARG:NH2	2.18	0.76
3:c:129:THR:OG1	3:c:131:ASP:O	2.01	0.76
78:Aa:1047:A:OP2	78:Aa:1049:C:N4	2.17	0.76
78:Aa:1481:A:O2'	78:Aa:1858:A:N3	2.18	0.76
49:Pa:124:ASP:OD2	49:Pa:129:TYR:OH	2.03	0.76
1:2b:1450:U:O2'	30:db:7:TRP:O	2.02	0.76
52:Qy:8:LYS:NZ	78:1b:971:G:OP1	2.16	0.76
1:a:1597:A:N1	30:4:13:ARG:C	2.43	0.76
78:Aa:509:U:N3	78:Aa:583:G:C6	2.53	0.76
78:Aa:804:C:OP1	39:Fa:98:ARG:NH2	2.17	0.76
78:Aa:2717:U:O3'	76:Z:13:LYS:NZ	2.18	0.76
45:La:66:GLU:OE2	45:La:69:ARG:NH2	2.19	0.76
67:Q:13:HIS:O	67:Q:95:GLY:N	2.18	0.76
1:2b:220:A:OP2	1:2b:831:U:O2'	2.02	0.76
1:2b:851:U:O2'	53:Ry:173:ARG:NH2	2.19	0.76
1:2b:1502:G:N2	1:2b:1505:A:OP2	2.19	0.76
78:1b:1064:A:N6	78:1b:1092:C:O2	2.19	0.76
1:a:1617:U:O2'	34:3:21:SER:O	2.03	0.76
25:Xb:47:SER:OG	25:Xb:48:HIS:ND1	2.17	0.76
1:a:620:A:O2'	1:a:621:A:O4'	2.02	0.76
1:a:1597:A:C4	30:4:14:TYR:HA	2.20	0.76
78:Aa:117:U:O2'	78:Aa:119:U:OP2	2.04	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:439:C:O2'	78:Aa:494:G:N2	2.19	0.76
78:Aa:2728:G:N7	55:E:87:LYS:NZ	2.34	0.76
79:8:58:A:O2'	79:8:60:C:OP2	2.00	0.76
1:2b:1204:A:OP1	1:2b:1456:C:N4	2.19	0.76
1:2b:1303:U:O2'	1:2b:1322:A:OP2	2.02	0.76
2:Ab:19:ALA:HB3	19:Rb:91:LEU:HD23	1.68	0.76
9:Gb:98:ARG:NE	9:Gb:105:ASP:OD2	2.19	0.76
1:a:748:U:O2'	24:x:122:SER:O	2.04	0.76
78:Aa:563:U:OP1	54:D:68:HIS:ND1	2.19	0.76
78:Aa:1530:U:HO2'	36:Ca:114:G:HO2'	1.30	0.76
78:Aa:1778:G:O2'	78:Aa:1780:G:OP2	2.03	0.76
37:Da:23:ARG:NH1	37:Da:52:SER:O	2.19	0.76
36:3b:75:G:OP2	60:Yy:74:TYR:OH	2.04	0.75
1:a:434:G:N2	1:a:437:A:OP2	2.17	0.75
1:a:1435:G:O6	13:l:64:TYR:OH	2.01	0.75
8:g:66:GLN:NE2	8:g:67:PRO:O	2.19	0.75
78:Aa:1420:C:OP2	39:Fa:193:LYS:NZ	2.14	0.75
36:Ca:60:U:OP1	59:I:54:TYR:OH	2.03	0.75
1:2b:217:A:N1	1:2b:844:A:O2'	2.19	0.75
1:2b:324:U:OP1	14:Lb:133:LYS:NZ	2.19	0.75
38:By:284:ARG:NH1	38:By:293:ASN:O	2.18	0.75
43:Gy:193:LYS:NZ	78:1b:145:G:OP2	2.18	0.75
64:cy:9:SER:N	64:cy:12:GLN:OE1	2.19	0.75
1:a:1797:A:OP2	28:1:10:ARG:NE	2.17	0.75
78:Aa:398:A:O2'	78:Aa:1416:C:OP1	2.04	0.75
78:Aa:938:C:OP1	78:Aa:962:A:O2'	2.03	0.75
78:Aa:1524:A:O2'	78:Aa:1526:U:OP2	2.04	0.75
60:J:116:LYS:HA	60:J:119:ILE:HD12	1.66	0.75
42:Fy:158:LYS:NZ	78:1b:1104:G:OP2	2.16	0.75
76:ob:75:VAL:O	76:ob:78:LYS:NZ	2.19	0.75
78:1b:449:U:O2'	78:1b:450:G:N2	2.19	0.75
1:a:1183:A:O4'	4:q:100:LYS:NZ	2.19	0.75
78:Aa:26:A:N6	78:Aa:59:G:O6	2.18	0.75
51:A:10:ASN:O	51:A:14:SER:OG	2.02	0.75
58:H:40:PHE:O	58:H:43:ARG:NH1	2.20	0.75
1:2b:487:G:C2	1:2b:501:U:C2	2.75	0.75
5:Cb:218:ILE:O	5:Cb:221:THR:OG1	2.01	0.75
60:Yy:17:LYS:O	60:Yy:21:THR:OG1	2.00	0.75
79:6b:26:G:O6	79:6b:44:A:N1	2.20	0.75
1:a:334:G:N7	11:j:5:ARG:NH2	2.34	0.75
9:h:48:TYR:OH	58:H:76:VAL:O	2.04	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:m:123:VAL:HG22	14:m:142:VAL:HG13	1.65	0.75
23:w:1:MET:N	23:w:10:GLU:OE2	2.20	0.75
78:Aa:1321:G:O2'	54:D:117:ARG:NH2	2.18	0.75
78:Aa:1949:G:OP1	53:C:104:ARG:NH1	2.20	0.75
78:Aa:2896:A:O2'	74:X:122:ARG:NH2	2.20	0.75
61:K:121:ARG:O	61:K:125:GLY:HA2	1.86	0.75
1:2b:1553:G:N1	1:2b:1556:A:OP2	2.20	0.75
20:Sb:2:SER:O	27:Zb:82:HIS:ND1	2.20	0.75
49:Ny:97:SER:OG	78:1b:290:G:OP1	2.02	0.75
57:Vy:10:LYS:O	78:1b:3039:C:O2'	2.05	0.75
2:b:56:LYS:NZ	23:w:66:ASP:OD1	2.18	0.75
78:Aa:336:A:OP2	60:J:9:SER:OG	2.02	0.75
78:Aa:838:G:N2	78:Aa:1723:A:O3'	2.20	0.75
78:Aa:1373:A:OP2	62:L:7:LYS:NZ	2.19	0.75
78:Aa:1720:U:OP2	53:C:120:TYR:OH	2.03	0.75
78:Aa:2896:A:OP1	74:X:124:LYS:NZ	2.20	0.75
45:La:20:SER:OG	45:La:23:ASN:N	2.19	0.75
34:cb:31:GLU:OE2	34:cb:37:SER:N	2.19	0.75
45:Iy:44:ASP:OD1	45:Iy:181:TYR:OH	2.04	0.75
78:1b:117:U:O2'	78:1b:119:U:OP2	2.02	0.75
78:1b:126:U:C4	78:1b:142:C:N4	2.55	0.75
1:a:78:A:OP2	9:h:154:ARG:NH1	2.20	0.75
1:a:1226:A:C6	15:n:116:VAL:HG11	2.22	0.75
1:a:1556:A:OP1	4:q:115:TYR:OH	2.04	0.75
27:0:39:ALA:O	27:0:72:GLY:N	2.20	0.75
47:Na:77:LEU:HD12	47:Na:80:VAL:HB	1.67	0.75
59:I:121:LYS:NZ	59:I:123:TYR:OH	2.20	0.75
1:2b:1022:C:O2'	1:2b:1125:A:N1	2.18	0.75
40:Dy:98:ALA:HB1	40:Dy:162:ALA:HB2	1.67	0.75
60:Yy:60:ARG:NH2	78:1b:200:C:OP2	2.19	0.75
1:a:526:A:OP1	26:z:93:ARG:NE	2.19	0.75
78:Aa:2899:C:N3	44:Ka:173:ARG:NH1	2.34	0.75
47:Ly:171:ARG:NH2	78:1b:770:G:OP1	2.20	0.75
1:a:488:G:O6	1:a:498:G:C2	2.40	0.75
12:k:83:VAL:O	12:k:107:ARG:NE	2.19	0.75
52:B:177:GLY:O	52:B:186:VAL:N	2.20	0.75
1:2b:394:C:N4	1:2b:401:A:N6	2.33	0.75
38:By:131:THR:O	38:By:134:SER:OG	2.05	0.75
46:Jy:22:SER:OG	78:1b:2675:C:N4	2.20	0.75
52:Qy:56:LYS:NZ	78:1b:673:U:O4	2.19	0.75
74:mb:111:ARG:NH2	78:1b:3119:U:O3'	2.18	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:1b:170:G:N2	78:1b:248:U:O2	2.18	0.75
1:a:151:G:O5'	26:z:127:LYS:NZ	2.20	0.75
23:w:74:GLN:O	23:w:80:LYS:NZ	2.19	0.75
78:Aa:2422:C:O2	49:Pa:87:GLN:NE2	2.20	0.75
78:Aa:3374:U:OP2	65:O:70:ARG:NH2	2.19	0.75
35:Bb:7:G:O3'	40:Ga:33:ARG:NH2	2.20	0.75
36:Ca:36:G:N2	36:Ca:37:A:N1	2.35	0.75
1:2b:704:C:N4	1:2b:734:A:N6	2.35	0.74
1:2b:1430:U:O2'	1:2b:1431:C:OP1	2.03	0.74
1:2b:1797:A:N6	28:ab:84:VAL:O	2.20	0.74
45:Iy:82:ARG:NH1	45:Iy:83:ASP:OD1	2.20	0.74
47:Ly:157:ARG:O	62:ay:99:ALA:N	2.20	0.74
1:a:473:A:OP1	12:k:44:ARG:NH1	2.20	0.74
78:Aa:1206:G:OP1	45:La:157:TYR:OH	2.04	0.74
55:E:14:MET:HE1	55:E:55:LYS:HB2	1.69	0.74
1:2b:1601:G:O2'	1:2b:1602:C:OP1	2.05	0.74
16:Nb:74:ILE:O	16:Nb:78:ASN:ND2	2.20	0.74
21:Tb:5:SER:N	21:Tb:8:ASP:OD2	2.19	0.74
41:Ey:99:GLU:OE1	41:Ey:99:GLU:N	2.20	0.74
45:Iy:198:LYS:NZ	78:1b:1040:A:N3	2.34	0.74
56:Uy:21:SER:O	56:Uy:25:ASN:ND2	2.20	0.74
78:1b:2501:U:O2'	78:1b:2502:A:OP1	2.05	0.74
1:a:476:U:OP2	31:5:33:ARG:NH2	2.21	0.74
1:a:1003:A:O2'	1:a:1005:A:N7	2.17	0.74
18:r:93:HIS:HA	18:r:97:VAL:HG22	1.69	0.74
78:Aa:596:C:OP2	42:Ia:34:LYS:NZ	2.17	0.74
78:Aa:718:G:N2	78:Aa:718:G:OP2	2.19	0.74
17:Ob:88:GLY:O	17:Ob:92:LYS:NZ	2.20	0.74
41:Ey:100:LYS:NZ	41:Ey:137:ASP:OD2	2.17	0.74
70:ib:76:ARG:NH1	78:1b:293:C:O3'	2.20	0.74
1:a:1160:A:O2'	1:a:1620:C:N3	2.18	0.74
11:j:2:GLY:O	11:j:24:LYS:NZ	2.20	0.74
78:Aa:542:G:N2	78:Aa:549:U:O2	2.20	0.74
78:Aa:685:G:N2	78:Aa:695:C:O2	2.20	0.74
78:Aa:2844:C:O2'	78:Aa:2846:U:OP1	2.04	0.74
52:B:87:VAL:O	52:B:107:THR:OG1	2.04	0.74
58:Wy:34:SER:OG	78:1b:3085:G:OP1	2.06	0.74
69:hb:95:PHE:O	69:hb:98:SER:OG	2.05	0.74
1:a:1316:G:OP1	19:s:7:LYS:N	2.19	0.74
4:q:89:MET:O	4:q:92:SER:OG	2.02	0.74
78:Aa:1329:U:OP1	67:Q:17:GLN:NE2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:2154:U:OP1	37:Da:242:ARG:NH1	2.21	0.74
78:Aa:2354:C:O2'	51:A:139:TYR:OH	2.04	0.74
78:Aa:3267:A:N6	41:Ha:70:LYS:O	2.21	0.74
38:Ea:38:SER:OG	38:Ea:39:LYS:NZ	2.14	0.74
64:N:57:GLU:OE1	64:N:69:TYR:OH	2.05	0.74
1:2b:269:G:N7	9:Gb:186:ARG:NH2	2.35	0.74
1:2b:398:G:OP1	11:Ib:50:GLY:N	2.20	0.74
1:2b:1245:G:O2'	1:2b:1247:U:OP2	2.05	0.74
8:Fb:32:GLU:OE1	8:Fb:32:GLU:N	2.20	0.74
46:Jy:41:SER:O	46:Jy:75:LYS:NZ	2.16	0.74
1:a:607:G:OP2	1:a:613:G:N1	2.20	0.74
5:d:218:ILE:O	5:d:221:THR:OG1	2.05	0.74
22:v:68:ARG:O	30:4:44:ARG:NE	2.20	0.74
78:Aa:1740:U:OP1	68:R:55:SER:OG	2.05	0.74
78:Aa:2111:G:O2'	58:H:44:LYS:NZ	2.17	0.74
66:P:18:LYS:NZ	66:P:30:GLU:OE1	2.16	0.74
27:Zb:35:ARG:NH1	27:Zb:37:GLN:OE1	2.19	0.74
53:Ry:114:LYS:O	53:Ry:146:LYS:NZ	2.14	0.74
1:a:5:U:OP2	5:d:204:THR:OG1	2.02	0.74
4:Pb:86:VAL:HG22	4:Pb:87:PRO:HD2	1.67	0.74
42:Fy:34:LYS:NZ	78:1b:596:C:OP2	2.17	0.74
1:a:74:U:C5	58:H:116:LYS:CD	2.71	0.74
1:a:1296:A:OP1	2:b:138:TYR:OH	2.02	0.74
27:0:74:SER:O	27:0:78:ILE:HD12	1.88	0.74
78:Aa:509:U:O2'	67:Q:42:GLN:NE2	2.21	0.74
78:Aa:1630:U:O5'	78:Aa:1813:A:N6	2.21	0.74
78:Aa:2207:A:O2'	78:Aa:2208:A:O4'	2.06	0.74
50:Qa:54:TYR:OH	50:Qa:73:PHE:O	2.04	0.74
1:2b:244:A:OP1	7:Eb:155:LYS:NZ	2.20	0.74
23:Vb:53:TYR:OH	23:Vb:76:ASP:OD2	2.06	0.74
46:Jy:20:ASN:ND2	78:1b:2681:U:O2	2.21	0.74
49:Ny:93:LYS:NZ	78:1b:2600:C:OP1	2.21	0.74
58:Wy:86:SER:O	58:Wy:89:LEU:N	2.21	0.74
1:a:74:U:C5	58:H:116:LYS:CG	2.70	0.74
1:2b:235:G:N7	1:2b:834:G:C2	2.56	0.74
1:2b:632:U:OP1	14:Lb:102:LYS:NZ	2.17	0.74
7:Eb:153:ASN:O	7:Eb:174:LYS:NZ	2.16	0.74
13:Kb:29:GLN:OE1	13:Kb:39:ASN:ND2	2.21	0.74
32:fb:148:TYR:O	32:fb:149:LYS:NZ	2.18	0.74
33:gb:256:THR:OG1	33:gb:259:GLY:O	2.05	0.74
39:Cy:357:GLU:O	39:Cy:361:HIS:N	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:Hy:120:ASP:OD1	44:Hy:121:LYS:N	2.21	0.74
61:Zy:33:SER:OG	61:Zy:36:HIS:N	2.21	0.74
7:f:100:ARG:NH2	7:f:121:TYR:O	2.20	0.74
8:g:73:THR:N	8:g:91:GLU:OE2	2.21	0.74
78:Aa:375:A:O5'	60:J:89:LYS:NZ	2.21	0.74
78:Aa:2392:C:O2'	38:Ea:266:ARG:NH2	2.20	0.74
42:Ia:79:ALA:N	55:E:138:SER:OG	2.21	0.74
72:V:11:PHE:O	72:V:15:THR:HG23	1.87	0.74
4:Pb:64:LYS:NZ	4:Pb:90:ILE:O	2.20	0.74
18:Qb:10:PHE:O	18:Qb:87:LYS:NZ	2.13	0.74
48:My:38:ILE:HA	48:My:44:VAL:HG12	1.69	0.74
57:Vy:12:ARG:NH1	78:1b:3041:U:OP1	2.21	0.74
34:3:49:ARG:NH1	34:3:50:GLU:O	2.21	0.74
78:Aa:1056:U:O4	78:Aa:2637:A:N7	2.20	0.74
78:Aa:1477:A:OP1	78:Aa:3075:G:O2'	2.05	0.74
78:Aa:1728:G:OP1	78:Aa:1729:A:O2'	2.06	0.74
1:2b:1095:U:O2	24:Wb:12:ASN:ND2	2.20	0.73
36:3b:114:G:OP1	78:1b:1831:U:O2'	2.04	0.73
45:Iy:7:ARG:NH2	78:1b:2828:G:OP1	2.21	0.73
11:j:69:SER:OG	11:j:70:GLU:OE1	2.05	0.73
78:Aa:1080:A:OP2	40:Ga:140:ARG:NH2	2.21	0.73
35:Bb:64:A:OP2	40:Ga:289:LYS:NZ	2.16	0.73
35:Bb:119:U:OP1	40:Ga:256:THR:OG1	2.05	0.73
47:Na:79:GLU:OE2	47:Na:103:ASN:ND2	2.21	0.73
54:D:52:LYS:O	54:D:55:SER:OG	2.03	0.73
24:Wb:23:ARG:O	24:Wb:65:LEU:N	2.20	0.73
49:Ny:2:GLY:O	70:ib:36:ARG:NH2	2.20	0.73
49:Ny:147:ARG:NE	78:1b:113:C:OP1	2.21	0.73
54:Sy:83:SER:OG	54:Sy:86:GLY:N	2.21	0.73
58:Wy:4:GLU:OE2	58:Wy:30:ARG:NH1	2.21	0.73
15:Mb:45:LEU:O	15:Mb:49:THR:HG23	1.88	0.73
18:Qb:98:ASP:O	18:Qb:101:SER:OG	2.06	0.73
38:By:247:ARG:N	78:1b:1889:G:OP1	2.19	0.73
78:1b:1064:A:N1	78:1b:1092:C:C4	2.56	0.73
78:1b:3395:G:O2'	78:1b:3396:U:OP2	2.05	0.73
1:a:68:A:N6	9:h:132:ARG:O	2.21	0.73
18:r:13:LYS:NZ	18:r:120:ASP:OD2	2.21	0.73
1:2b:1548:G:O2'	20:Sb:89:GLN:NE2	2.22	0.73
36:3b:126:A:O2'	36:3b:128:U:OP2	2.05	0.73
67:fy:15:SER:OG	67:fy:16:TYR:N	2.19	0.73
67:fy:88:ASN:O	78:1b:429:U:O2'	2.06	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:jb:14:LYS:NZ	73:lb:51:ILE:O	2.21	0.73
76:ob:2:VAL:N	76:ob:90:HIS:O	2.21	0.73
1:a:424:C:H42	1:a:429:G:N2	1.87	0.73
1:a:1298:U:O2'	5:d:212:LYS:NZ	2.14	0.73
1:a:1562:G:OP1	21:u:86:ARG:NH2	2.20	0.73
19:s:81:LYS:O	19:s:83:GLN:N	2.22	0.73
78:Aa:293:C:O2'	70:T:76:ARG:NE	2.21	0.73
78:Aa:838:G:O6	78:Aa:855:U:O2	2.05	0.73
78:Aa:1898:G:N2	78:Aa:1901:A:N6	2.37	0.73
78:Aa:3008:A:OP2	50:Qa:74:ARG:NH1	2.21	0.73
40:Ga:99:TYR:OH	40:Ga:168:ASP:OD2	2.06	0.73
1:2b:1615:C:N4	8:Fb:80:LYS:O	2.21	0.73
11:Ib:12:SER:OG	11:Ib:14:THR:OG1	2.04	0.73
53:Ry:88:ARG:NH1	78:1b:1864:A:OP2	2.22	0.73
1:a:325:G:OP1	14:m:134:THR:OG1	2.02	0.73
78:Aa:341:G:O2'	36:Ca:22:U:O4	2.07	0.73
78:Aa:1190:A:O3'	50:Qa:49:ARG:NH1	2.22	0.73
78:Aa:1192:C:OP1	74:X:113:ARG:NH1	2.21	0.73
36:Ca:75:G:OP2	60:J:74:TYR:OH	2.06	0.73
52:B:170:ARG:NH2	62:L:58:MET:O	2.21	0.73
17:Ob:105:LEU:O	17:Ob:108:SER:OG	2.05	0.73
30:db:39:CYS:SG	30:db:42:CYS:CB	2.76	0.73
42:Fy:158:LYS:NZ	78:1b:1103:A:OP2	2.20	0.73
43:Gy:95:ASN:OD1	43:Gy:98:ARG:NH2	2.22	0.73
45:Iy:157:TYR:OH	78:1b:1206:G:OP1	2.06	0.73
48:My:18:GLY:N	48:My:35:ILE:O	2.22	0.73
78:1b:1261:G:O2'	78:1b:1278:A:N1	2.20	0.73
1:a:332:U:O2'	11:j:5:ARG:NH1	2.21	0.73
1:a:868:G:OP1	16:o:121:ARG:NH1	2.22	0.73
1:a:1204:A:OP2	30:4:12:ARG:NH2	2.16	0.73
22:v:30:LYS:NZ	22:v:110:PRO:O	2.22	0.73
78:Aa:1196:C:OP1	78:Aa:1309:U:O2'	2.07	0.73
78:Aa:1696:A:OP2	78:Aa:1749:A:N6	2.20	0.73
78:Aa:1905:G:N2	78:Aa:1907:C:O4'	2.21	0.73
78:Aa:2295:A:OP1	57:G:63:LYS:NZ	2.22	0.73
36:Ca:75:G:OP2	73:W:31:THR:OG1	2.05	0.73
45:La:153:ARG:NH2	45:La:157:TYR:OH	2.21	0.73
1:2b:1066:C:O2	3:Ba:148:ASN:ND2	2.22	0.73
6:Db:61:GLU:OE2	6:Db:62:ASN:ND2	2.21	0.73
10:Hb:112:ARG:NH2	10:Hb:117:THR:OG1	2.22	0.73
39:Cy:211:GLU:N	39:Cy:211:GLU:OE1	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Dy:34:LYS:O	40:Dy:38:THR:OG1	2.04	0.73
60:Yy:89:LYS:NZ	78:1b:375:A:O3'	2.21	0.73
1:a:488:G:O6	1:a:499:U:O2	2.04	0.73
78:Aa:3149:G:O2'	38:Ea:129:ALA:O	2.02	0.73
45:La:9:TYR:HB3	45:La:97:LEU:HD13	1.69	0.73
9:Gb:160:ARG:O	9:Gb:170:THR:C	2.31	0.73
23:Vb:28:ASP:OD1	23:Vb:31:SER:OG	2.06	0.73
33:gb:48:THR:OG1	33:gb:50:ASP:OD1	2.06	0.73
55:Ty:119:ALA:O	55:Ty:123:GLY:N	2.20	0.73
78:1b:443:G:N1	78:1b:492:C:N3	2.36	0.73
1:a:398:G:OP2	11:j:47:ARG:NH1	2.22	0.73
1:a:1338:C:OP1	18:r:12:LYS:NZ	2.22	0.73
6:e:22:ASN:O	6:e:26:THR:OG1	2.04	0.73
78:Aa:1895:A:N6	78:Aa:2335:G:O2'	2.22	0.73
78:Aa:3005:A:O2'	78:Aa:3140:G:N2	2.21	0.73
78:Aa:3217:C:O5'	78:Aa:3266:G:N2	2.22	0.73
35:Bb:1:G:O3'	40:Ga:273:ARG:NH2	2.21	0.73
44:Ka:88:TYR:CD2	44:Ka:154:VAL:HG12	2.23	0.73
1:2b:127:G:N2	1:2b:178:U:O2'	2.21	0.73
1:2b:235:G:N7	1:2b:834:G:N2	2.37	0.73
1:2b:354:C:H5''	11:Ib:16:ALA:HB2	1.69	0.73
37:Ay:70:ARG:NH2	78:1b:1651:U:OP1	2.21	0.73
1:a:74:U:N1	58:H:116:LYS:CD	2.51	0.73
1:a:1671:A:N6	1:a:1730:A:O2'	2.22	0.73
9:h:57:ASP:OD1	9:h:61:PHE:N	2.21	0.73
78:Aa:1136:A:OP1	63:M:9:ALA:N	2.22	0.73
1:2b:473:A:OP1	12:Jb:44:ARG:NH1	2.21	0.73
1:2b:1075:C:O2'	28:ab:13:LYS:O	2.06	0.73
18:Qb:42:GLU:OE1	18:Qb:45:ARG:NH1	2.22	0.73
27:Zb:74:SER:OG	27:Zb:77:ARG:NH2	2.22	0.73
38:By:2:SER:N	78:1b:2940:A:OP2	2.22	0.73
78:1b:1565:G:N2	78:1b:1575:A:C5	2.57	0.73
78:1b:1624:G:O6	78:1b:1819:U:C4	2.42	0.73
1:a:1488:G:O2'	1:a:1494:C:O2	2.07	0.73
20:t:26:ILE:O	20:t:58:ALA:N	2.22	0.73
78:Aa:1489:A:OP1	68:R:10:ARG:NH1	2.21	0.73
78:Aa:3212:C:OP2	48:Oa:124:ARG:NH2	2.22	0.73
40:Ga:50:ARG:NH1	40:Ga:147:ASP:OD2	2.22	0.73
8:Fb:51:VAL:HG11	8:Fb:130:ILE:HG22	1.69	0.72
12:Jb:162:SER:O	12:Jb:166:GLY:N	2.21	0.72
15:Mb:62:LEU:O	15:Mb:91:VAL:HG12	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:By:297:SER:O	38:By:300:ARG:NE	2.21	0.72
26:z:109:LYS:O	26:z:113:ASN:ND2	2.22	0.72
78:Aa:339:C:OP2	39:Fa:197:ARG:NH2	2.22	0.72
78:Aa:715:A:N1	78:Aa:781:G:O2'	2.19	0.72
78:Aa:1048:A:O2'	78:Aa:2632:G:O2'	2.06	0.72
68:R:13:TYR:O	68:R:18:ASN:ND2	2.22	0.72
1:2b:68:A:OP1	9:Gb:171:LYS:NZ	2.22	0.72
1:2b:446:A:OP1	7:Eb:59:ARG:NE	2.21	0.72
1:a:126:A:N1	1:a:263:C:O2'	2.20	0.72
5:d:108:ASN:O	5:d:110:HIS:ND1	2.22	0.72
12:k:108:ARG:O	12:k:111:THR:OG1	2.07	0.72
26:z:54:ALA:HB1	26:z:76:TYR:O	1.88	0.72
78:Aa:835:G:O2'	78:Aa:857:G:N2	2.22	0.72
45:La:215:GLU:OE1	45:La:215:GLU:N	2.22	0.72
7:Eb:88:ASP:OD1	7:Eb:122:LYS:NZ	2.22	0.72
35:4b:11:A:N6	40:Dy:13:SER:O	2.22	0.72
39:Cy:36:HIS:NE2	78:1b:1425:U:O2'	2.19	0.72
40:Dy:117:GLU:OE1	40:Dy:117:GLU:N	2.23	0.72
1:a:44:U:OP2	1:a:437:A:N6	2.20	0.72
1:a:329:G:OP1	11:j:98:LYS:NZ	2.16	0.72
1:a:804:A:N3	24:x:105:THR:HG22	2.04	0.72
57:G:128:ARG:O	57:G:131:SER:OG	2.06	0.72
22:Ub:106:ILE:HG13	22:Ub:107:THR:HG23	1.71	0.72
23:Vb:31:SER:OG	23:Vb:57:GLY:N	2.22	0.72
31:eb:29:LYS:O	31:eb:31:LYS:NZ	2.15	0.72
49:Ny:169:LYS:NZ	78:1b:64:G:OP2	2.19	0.72
68:gy:8:ARG:NH2	78:1b:1597:C:OP1	2.22	0.72
1:a:1234:A:OP2	1:a:1245:G:O2'	2.05	0.72
1:a:1250:U:O2'	32:6:135:HIS:O	2.06	0.72
22:v:64:LYS:O	30:4:33:LYS:NZ	2.22	0.72
24:x:5:SER:O	24:x:8:ALA:N	2.22	0.72
44:Ka:49:ASN:OD1	44:Ka:52:LEU:N	2.22	0.72
55:E:99:SER:OG	55:E:101:CYS:SG	2.43	0.72
41:Ey:17:ALA:O	78:1b:591:G:O2'	2.07	0.72
44:Hy:168:ARG:NH2	78:1b:2894:C:OP2	2.21	0.72
57:Vy:81:GLN:O	57:Vy:98:ASN:ND2	2.23	0.72
78:1b:2841:G:H21	78:1b:2847:A:H62	1.37	0.72
1:a:420:A:OP1	9:h:96:SER:OG	2.08	0.72
7:f:50:ASN:O	7:f:53:LYS:NZ	2.22	0.72
78:Aa:1080:A:N6	78:Aa:1082:U:O2'	2.22	0.72
48:Oa:123:LEU:HD22	50:Qa:190:VAL:HG13	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:1696:G:C2	1:2b:1706:C:C2	2.77	0.72
3:Ba:132:ASP:O	3:Ba:219:LYS:NZ	2.20	0.72
40:Dy:17:GLN:NE2	55:Ty:22:HIS:O	2.22	0.72
61:Zy:88:ASP:OD1	61:Zy:121:ARG:NE	2.23	0.72
78:1b:1130:A:O2'	78:1b:2825:C:O2	2.06	0.72
1:a:337:G:N1	1:a:341:A:N6	2.37	0.72
1:a:1317:C:O2'	1:a:1400:A:N3	2.21	0.72
12:k:108:ARG:NH2	12:k:110:GLN:OE1	2.21	0.72
78:Aa:648:C:N4	78:Aa:2376:G:OP1	2.22	0.72
35:4b:7:G:OP2	40:Dy:28:THR:OG1	2.06	0.72
38:By:99:LEU:O	78:1b:3004:C:O2'	2.04	0.72
39:Cy:34:ILE:O	39:Cy:37:THR:N	2.21	0.72
59:Xy:27:ARG:NH2	59:Xy:29:SER:O	2.23	0.72
59:Xy:70:GLU:OE2	59:Xy:74:LYS:NZ	2.21	0.72
78:1b:1716:U:HO2'	78:1b:1717:U:P	2.13	0.72
1:a:179:A:N1	9:h:202:ARG:NH2	2.37	0.72
1:a:1401:A:OP1	19:s:60:ARG:NH1	2.22	0.72
78:Aa:420:G:N7	50:Qa:96:LYS:NZ	2.38	0.72
78:Aa:1128:U:O4'	45:La:4:ARG:NH1	2.22	0.72
78:Aa:2657:A:OP2	76:Z:100:LYS:NZ	2.21	0.72
78:Aa:3085:G:OP1	58:H:34:SER:OG	2.03	0.72
55:E:101:CYS:SG	55:E:102:ARG:N	2.63	0.72
40:Dy:205:SER:HB2	40:Dy:233:ALA:HB1	1.71	0.72
78:1b:2495:C:O2'	78:1b:2496:C:OP1	2.07	0.72
1:a:1403:C:OP1	19:s:3:ARG:N	2.23	0.72
1:a:1473:U:O4	8:g:180:ARG:NE	2.21	0.72
30:4:22:ARG:HG3	30:4:23:VAL:HG23	1.70	0.72
78:Aa:1126:G:OP2	45:La:14:ASN:ND2	2.23	0.72
78:Aa:1379:G:O3'	39:Fa:191:LYS:NZ	2.22	0.72
36:Ca:72:A:OP2	60:J:52:ARG:NH1	2.23	0.72
46:Ma:94:ARG:O	46:Ma:96:PHE:N	2.22	0.72
47:Na:114:GLN:NE2	47:Na:114:GLN:O	2.22	0.72
2:Ab:24:LEU:O	2:Ab:163:ASN:ND2	2.22	0.72
50:Oy:134[A]:LYS:NZ	78:1b:3123:A:OP1	2.14	0.72
73:lb:11:GLN:O	73:lb:14:ALA:N	2.23	0.72
78:1b:1302:A:N7	78:1b:2857:C:O2'	2.23	0.72
78:Aa:15:C:O2	36:Ca:144:G:N2	2.20	0.72
78:Aa:265:A:OP1	70:T:29:LYS:NZ	2.23	0.72
78:Aa:2897:A:OP2	78:Aa:2899:C:N4	2.22	0.72
43:Ja:171:LYS:NZ	43:Ja:223:ALA:O	2.23	0.72
1:2b:153:G:H4'	9:Gb:15:THR:HG21	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cy:98:ARG:NH2	78:1b:804:C:OP1	2.22	0.72
39:Cy:266:THR:HG23	39:Cy:267:VAL:HG13	1.72	0.72
41:Ey:157:GLN:OE1	41:Ey:157:GLN:N	2.23	0.72
51:Py:115:SER:OG	51:Py:149:VAL:O	2.03	0.72
78:1b:1524:A:O2'	78:1b:1526:U:OP2	2.06	0.72
78:1b:2704:A:O2'	78:1b:2705:A:O5'	2.07	0.72
1:a:1245:G:C6	1:a:1250:U:O4	2.43	0.72
78:Aa:170:G:O6	78:Aa:248:U:O4	2.07	0.72
78:Aa:361:A:OP1	71:U:24:ARG:NH1	2.22	0.72
36:Ca:82:U:O2'	36:Ca:83:C:OP2	2.08	0.72
61:K:22:LYS:NZ	61:K:132:SER:OG	2.21	0.72
2:Ab:103:THR:O	2:Ab:106:SER:OG	2.08	0.71
39:Cy:325:LEU:O	42:Fy:41:ARG:NH2	2.23	0.71
78:1b:2568:C:O2'	78:1b:2569:A:O4'	2.08	0.71
1:a:74:U:N1	58:H:116:LYS:CG	2.53	0.71
1:a:115:G:OP2	14:m:65:SER:OG	2.08	0.71
78:Aa:282:G:O2'	78:Aa:283:G:OP2	2.07	0.71
78:Aa:1713:G:N2	78:Aa:1731:A:OP2	2.23	0.71
78:Aa:3208:G:OP2	48:Oa:106:ARG:NH2	2.23	0.71
78:Aa:3216:G:O2'	78:Aa:3220:G:OP2	2.06	0.71
47:Na:90:ALA:HB1	47:Na:95:ILE:HB	1.71	0.71
47:Na:126:PHE:O	69:S:114:ARG:NH2	2.22	0.71
78:1b:1268:G:O2'	78:1b:1269:U:O2	2.07	0.71
1:a:37:U:O2'	1:a:770:A:N1	2.22	0.71
1:a:54:C:O2'	1:a:459:G:N7	2.17	0.71
1:a:932:U:OP2	3:c:155:TYR:OH	2.06	0.71
1:a:1198:G:OP1	1:a:1199:G:O2'	2.08	0.71
1:a:1597:A:C6	30:4:13:ARG:C	2.68	0.71
8:g:72:HIS:ND1	18:r:79:TYR:OH	2.22	0.71
78:Aa:708:G:N2	78:Aa:711:A:OP2	2.21	0.71
62:L:17:ALA:O	62:L:19:LYS:N	2.23	0.71
72:V:45:VAL:O	72:V:51:LEU:HD12	1.91	0.71
1:2b:1169:G:N1	1:2b:1575:G:OP2	2.23	0.71
1:2b:1400:A:O3'	19:Rb:60:ARG:NH1	2.22	0.71
2:Ab:41:ARG:N	2:Ab:45:VAL:O	2.23	0.71
46:Jy:133:ARG:NH1	46:Jy:153:LYS:O	2.23	0.71
55:Ty:109:VAL:HG13	78:1b:1063:G:N1	2.04	0.71
60:Yy:102:SER:OG	60:Yy:103:LYS:NZ	2.24	0.71
72:kb:4:GLU:OE2	78:1b:1747:G:O2'	2.05	0.71
78:1b:239:G:O2'	78:1b:240:U:OP1	2.05	0.71
78:1b:1646:G:O2'	78:1b:1808:G:N2	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:1b:3350:C:N3	78:1b:3353:G:N1	2.39	0.71
1:a:1275:A:N3	6:e:141:LYS:NZ	2.36	0.71
22:v:100:VAL:O	22:v:104:THR:HG23	1.90	0.71
78:Aa:633:C:O2'	67:Q:21:ARG:O	2.03	0.71
78:Aa:1906:G:H21	78:Aa:1909:A:N6	1.88	0.71
35:Bb:5:G:OP2	40:Ga:27:LYS:NZ	2.23	0.71
68:R:47:CYS:SG	68:R:48:GLY:N	2.63	0.71
9:Gb:47:GLY:O	9:Gb:115:LYS:NZ	2.21	0.71
40:Dy:257:GLU:OE1	40:Dy:257:GLU:N	2.23	0.71
46:Jy:95:ASN:O	78:1b:2672:G:O2'	2.04	0.71
78:1b:1064:A:C6	78:1b:1092:C:N3	2.58	0.71
78:Aa:1481:A:OP2	78:Aa:1859:A:N6	2.23	0.71
5:Cb:176:SER:OG	12:Jb:53:ARG:NH1	2.23	0.71
41:Ey:64:LEU:HD11	41:Ey:76:LEU:HD22	1.72	0.71
47:Ly:73:ARG:NH1	78:1b:110:G:OP2	2.22	0.71
1:a:1597:A:N3	30:4:14:TYR:CA	2.54	0.71
6:e:170:THR:HG22	6:e:187:LYS:HA	1.72	0.71
78:Aa:43:A:C5	78:Aa:2802:A:C6	2.78	0.71
78:Aa:608:A:O3'	39:Fa:326:ARG:NH1	2.23	0.71
78:Aa:1506:A:OP2	51:A:127:ARG:NH2	2.24	0.71
78:Aa:1841:A:C6	78:Aa:1848:G:C2	2.78	0.71
40:Ga:91:GLY:O	40:Ga:94:ASN:ND2	2.23	0.71
57:G:121:GLU:OE1	57:G:121:GLU:N	2.23	0.71
71:U:17:THR:HG22	71:U:18:LEU:H	1.56	0.71
1:2b:1149:G:N2	1:2b:1766:A:OP1	2.23	0.71
25:Xb:41:SER:O	25:Xb:43:PHE:N	2.23	0.71
38:By:266:ARG:NH2	78:1b:2392:C:O2'	2.22	0.71
43:Gy:54:GLU:N	43:Gy:54:GLU:OE1	2.23	0.71
45:Iy:171:TRP:O	45:Iy:174:THR:OG1	2.07	0.71
48:My:92:GLU:OE1	48:My:92:GLU:N	2.22	0.71
78:1b:2807:U:O2'	78:1b:2809:C:OP1	2.06	0.71
78:Aa:78:U:C2	78:Aa:324:A:N6	2.59	0.71
78:Aa:2138:A:O2'	71:U:2:GLY:N	2.20	0.71
35:Bb:29:C:O2'	35:Bb:51:A:N1	2.18	0.71
50:Qa:15:LEU:N	50:Qa:123:ALA:O	2.24	0.71
77:pb:4:ARG:NH2	78:1b:855:U:O4	2.22	0.71
1:a:1616:G:N2	34:3:22:ARG:O	2.18	0.71
24:x:111:MET:HE3	24:x:116:ALA:HB2	1.73	0.71
26:z:37:LYS:HA	26:z:40:LEU:HD12	1.72	0.71
78:Aa:516:A:O2'	42:Ia:60:ARG:NH2	2.23	0.71
78:Aa:905:U:O2	78:Aa:910:G:O2'	2.09	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:1347:U:OP2	52:B:38:ARG:NE	2.23	0.71
78:Aa:2152:A:O2'	78:Aa:2243:A:O2'	2.03	0.71
36:Ca:97:A:OP1	69:S:63:ARG:NH2	2.23	0.71
44:Ka:90:MET:HE3	44:Ka:181:VAL:CG2	2.20	0.71
57:G:53:SER:N	57:G:56:ASP:OD2	2.24	0.71
1:2b:148:A:H62	1:2b:166:C:N4	1.88	0.71
52:Qy:95:GLU:N	52:Qy:95:GLU:OE1	2.23	0.71
78:1b:1544:G:O2'	78:1b:2167:A:N3	2.24	0.71
1:a:1482:C:OP2	1:a:1521:G:N2	2.24	0.71
3:c:99:ASN:OD1	3:c:100:PHE:N	2.24	0.71
78:Aa:98:G:OP1	47:Na:16:LYS:NZ	2.24	0.71
41:Ha:37:GLY:N	41:Ha:54:TYR:O	2.23	0.71
1:2b:567:A:O2'	25:Xb:90:ASP:OD1	2.07	0.71
36:3b:71:A:O2'	36:3b:83:C:N3	2.24	0.71
43:Gy:160:ILE:O	43:Gy:164:VAL:HG13	1.91	0.71
47:Ly:185:LYS:NZ	78:1b:2781:U:O3'	2.23	0.71
50:Oy:134[A]:LYS:NZ	78:1b:3124:G:OP2	2.22	0.71
71:jb:24:ARG:NH1	78:1b:361:A:OP1	2.23	0.71
78:1b:1643:A:O2'	78:1b:1644:C:O4'	2.07	0.71
78:1b:1906:G:O2'	78:1b:1907:C:OP2	2.08	0.71
1:a:1125:A:OP1	75:Y:18:ARG:NH1	2.24	0.71
1:a:1588:G:OP2	18:r:132:LYS:NZ	2.23	0.71
35:4b:9:C:OP1	55:Ty:28:SER:OG	2.06	0.71
39:Cy:48:GLN:OE1	78:1b:691:A:N6	2.23	0.71
45:Iy:209:ASN:O	45:Iy:212:GLU:C	2.34	0.71
1:a:782:U:O4	26:z:49:LYS:NZ	2.24	0.71
18:r:136:SER:O	18:r:137:ARG:NE	2.23	0.71
78:Aa:2355:G:O2'	78:Aa:2356:A:O4'	2.07	0.71
40:Ga:39:GLN:OE1	40:Ga:40:HIS:N	2.23	0.71
1:2b:149:C:O3'	26:Yb:123:LYS:NZ	2.22	0.70
43:Gy:90:THR:HB	43:Gy:214:LEU:HD21	1.72	0.70
78:1b:2393:G:O2'	78:1b:2982:A:N6	2.23	0.70
1:a:1291:G:N2	1:a:1305:U:O4	2.15	0.70
9:h:48:TYR:OH	9:h:121:LEU:N	2.23	0.70
78:Aa:994:G:N3	78:Aa:1053:A:C6	2.59	0.70
78:Aa:2831:G:N2	78:Aa:2858:U:O2	2.23	0.70
1:2b:38:C:O3'	12:Jb:6:ARG:NH1	2.24	0.70
1:2b:1540:G:P	1:2b:1541:G:OP2	2.48	0.70
1:a:10:G:N3	5:d:89:GLN:NE2	2.39	0.70
1:a:53:G:O2'	26:z:106:GLN:OE1	2.09	0.70
14:Lb:138:ASN:OD1	14:Lb:139:VAL:N	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Wb:24:GLN:OE1	24:Wb:24:GLN:N	2.23	0.70
43:Gy:46:LEU:O	59:Xy:27:ARG:NH1	2.23	0.70
56:Uy:81:LYS:NZ	78:1b:1680:G:N7	2.38	0.70
77:pb:78:THR:O	77:pb:81:SER:OG	2.05	0.70
78:1b:1819:U:O2'	78:1b:1820:U:OP1	2.07	0.70
1:a:1227:A:O2'	1:a:1228:G:OP2	2.10	0.70
19:s:44:LYS:O	19:s:48:ASN:ND2	2.24	0.70
22:v:45:ALA:O	22:v:48:HIS:O	2.10	0.70
78:Aa:121:A:O2'	43:Ja:105:LYS:NZ	2.22	0.70
49:Pa:144:ARG:NE	69:S:96:GLU:OE1	2.23	0.70
14:Lb:27:THR:O	14:Lb:30:ARG:NH1	2.24	0.70
50:Oy:164[A]:SER:O	50:Oy:167[A]:TYR:N	2.24	0.70
8:g:156:ARG:NH2	8:g:224:ASN:O	2.24	0.70
78:Aa:148:G:N7	43:Ja:137:ASN:ND2	2.38	0.70
78:Aa:781:G:OP1	52:B:151:ARG:NH1	2.25	0.70
78:Aa:1680:G:N7	56:F:81:LYS:NZ	2.38	0.70
48:Oa:113:THR:N	48:Oa:116:GLU:OE1	2.23	0.70
51:A:166:VAL:HG12	51:A:168:LEU:HD13	1.73	0.70
1:2b:20:G:O2'	1:2b:553:G:N2	2.25	0.70
12:Jb:87:SER:OG	12:Jb:89:ASP:OD1	2.06	0.70
37:Ay:180:LEU:HD11	77:pb:26:VAL:HG21	1.72	0.70
44:Hy:173:ARG:NH1	74:mb:125:LYS:O	2.24	0.70
70:ib:30:LYS:NZ	78:1b:316:U:O2'	2.14	0.70
70:ib:30:LYS:NZ	78:1b:317:A:OP2	2.19	0.70
1:a:1597:A:N3	30:4:13:ARG:C	2.50	0.70
78:Aa:1491:A:O3'	71:U:14:LYS:NZ	2.25	0.70
1:2b:1596:C:OP1	30:db:16:LYS:NZ	2.24	0.70
40:Dy:49:TYR:CE1	40:Dy:75:LEU:HD11	2.26	0.70
51:Py:171:ARG:NH2	78:1b:3274:A:N7	2.39	0.70
57:Vy:63:LYS:O	57:Vy:70:ARG:NE	2.25	0.70
1:a:57:G:OP2	26:z:116:LYS:NZ	2.23	0.70
1:a:459:G:O6	26:z:106:GLN:NE2	2.24	0.70
6:e:94:ARG:NE	6:e:125:TYR:OH	2.23	0.70
78:Aa:2771:U:O2'	78:Aa:2772:C:O4'	2.08	0.70
78:Aa:2808:A:O2'	78:Aa:2969:A:OP1	2.04	0.70
43:Ja:221:ASN:OD1	43:Ja:225:LYS:NZ	2.24	0.70
1:2b:930:A:N3	3:Ba:111:ARG:NH1	2.40	0.70
33:gb:289:ALA:HB2	33:gb:305:TYR:CE1	2.26	0.70
42:Fy:94:LYS:NZ	78:1b:1156:C:OP2	2.24	0.70
47:Ly:109:PHE:O	47:Ly:113:VAL:HG23	1.91	0.70
54:Sy:12:ARG:NH1	54:Sy:57:GLU:OE2	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:553:G:N2	1:a:571:G:N7	2.39	0.70
1:a:1597:A:N1	30:4:14:TYR:CA	2.55	0.70
8:g:99:MET:SD	8:g:100:ASN:N	2.65	0.70
9:h:113:ILE:CG2	58:H:75:THR:HG21	2.21	0.70
12:k:60:LEU:HD21	12:k:93:LEU:HB2	1.74	0.70
12:k:146:PHE:O	12:k:149:ARG:NH1	2.24	0.70
78:Aa:857:G:OP2	53:C:92:GLN:NE2	2.24	0.70
78:Aa:1953:G:C6	78:Aa:2093:A:N6	2.60	0.70
40:Ga:9:SER:OG	40:Ga:12:TYR:N	2.24	0.70
68:R:11:ASN:OD1	68:R:18:ASN:ND2	2.24	0.70
1:2b:229:U:O4	1:2b:237:C:C4	2.45	0.70
1:2b:337:G:O3'	11:Ib:10:LYS:NZ	2.24	0.70
35:4b:28:C:OP1	46:Jy:137:ARG:NH1	2.24	0.70
55:Ty:43:LYS:NZ	78:1b:993:G:OP1	2.24	0.70
63:by:10:HIS:O	63:by:12:GLN:NE2	2.24	0.70
78:1b:1477:A:OP1	78:1b:3075:G:O2'	2.09	0.70
78:1b:2537:U:O2'	78:1b:2538:U:O5'	2.08	0.70
78:1b:3319:U:O2'	78:1b:3320:A:OP1	2.09	0.70
1:a:605:A:OP2	1:a:606:A:O2'	2.07	0.70
1:a:1409:G:N1	1:a:1412:G:OP2	2.24	0.70
1:a:1576:A:HO2'	79:8:40:C:HO2'	1.37	0.70
9:h:193:LEU:O	9:h:197:ASN:ND2	2.25	0.70
78:Aa:1015:U:O2'	78:Aa:1016:C:OP1	2.09	0.70
36:Ca:95:G:O2'	71:U:81:GLY:O	2.09	0.70
1:2b:538:A:O2'	1:2b:540:G:N2	2.25	0.70
1:2b:826:U:C4	1:2b:846:G:O6	2.45	0.70
8:Fb:205:SER:OG	8:Fb:207:THR:OG1	2.05	0.70
64:cy:99:ASP:OD1	64:cy:102:THR:OG1	2.09	0.70
1:a:535:A:OP2	12:k:168:ARG:NH1	2.25	0.70
1:a:564:G:N2	1:a:577:G:OP1	2.24	0.70
1:a:657:U:O2	1:a:677:G:N2	2.24	0.70
1:a:1477:G:OP1	21:u:45:MET:N	2.25	0.70
5:d:179:VAL:O	5:d:198:THR:OG1	2.07	0.70
11:j:136:SER:O	11:j:139:ALA:N	2.24	0.70
12:k:17:ARG:O	12:k:23:ARG:NH2	2.25	0.70
15:n:45:LEU:O	15:n:49:THR:HG23	1.92	0.70
78:Aa:1597:C:OP2	68:R:8:ARG:NH2	2.24	0.70
57:G:6:ALA:HB2	57:G:126:TRP:CH2	2.26	0.70
65:O:20:LEU:HD11	65:O:67:VAL:HG11	1.71	0.70
1:2b:311:U:OP1	25:Xb:24:TRP:NE1	2.24	0.70
1:2b:1473:U:O2'	8:Fb:103:ASN:ND2	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Eb:123:LEU:HD23	7:Eb:161:LYS:HA	1.74	0.70
38:By:174:LYS:NZ	78:1b:3320:A:O3'	2.24	0.70
38:By:246:LEU:N	78:1b:1889:G:OP1	2.24	0.70
38:By:274:SER:OG	78:1b:3139:A:OP1	2.09	0.70
44:Hy:105:GLU:OE2	44:Hy:110:LYS:NZ	2.24	0.70
47:Ly:4:SER:O	62:ay:44:ASN:ND2	2.25	0.70
57:Vy:10:LYS:NZ	57:Vy:56:ASP:OD1	2.24	0.70
60:Yy:16:ARG:NH1	78:1b:216:G:OP1	2.25	0.70
77:pb:4:ARG:NH2	78:1b:838:G:O6	2.24	0.70
78:1b:875:G:O2'	78:1b:1891:A:OP1	2.09	0.70
78:Aa:1425:U:O2'	39:Fa:36:HIS:NE2	2.22	0.70
78:Aa:2736:A:O3'	55:E:71:SER:OG	2.07	0.70
78:Aa:3006:A:OP1	50:Qa:149:TYR:OH	2.06	0.70
78:Aa:3163:A:N6	78:Aa:3288:G:O6	2.24	0.70
36:Ca:71:A:OP1	60:J:28:ARG:NH2	2.25	0.70
43:Ja:100:GLU:OE2	43:Ja:108:ARG:NH1	2.25	0.70
50:Qa:177:LYS:O	50:Qa:180:SER:OG	2.09	0.70
9:Gb:14:LYS:HB3	9:Gb:124:LEU:HD21	1.74	0.69
9:Gb:32:ILE:HD12	9:Gb:100:ALA:HA	1.75	0.69
38:By:244:ARG:NH2	78:1b:2948:C:OP1	2.25	0.69
41:Ey:60:ASP:OD2	41:Ey:78:ARG:NH2	2.25	0.69
47:Ly:107:GLU:OE1	47:Ly:107:GLU:N	2.23	0.69
68:gy:60:ARG:NH1	78:1b:1593:A:O4'	2.25	0.69
1:a:382:C:OP2	7:f:10:LYS:NZ	2.24	0.69
1:a:590:C:OP1	31:5:43:ARG:NH2	2.25	0.69
1:a:1365:C:O2'	18:r:30:LYS:NZ	2.25	0.69
34:3:42:ARG:NH2	34:3:58:GLU:O	2.25	0.69
78:Aa:220:G:C5	78:Aa:1389:G:N1	2.60	0.69
78:Aa:2196:C:O2'	78:Aa:2270:A:N3	2.22	0.69
35:Bb:62:U:O3'	40:Ga:285:ARG:NH1	2.25	0.69
45:La:49:CYS:SG	45:La:51:HIS:NE2	2.64	0.69
1:2b:68:A:N6	9:Gb:132:ARG:O	2.25	0.69
1:2b:1601:G:OP1	21:Tb:86:ARG:NH1	2.24	0.69
41:Ey:70:LYS:O	78:1b:3267:A:N6	2.25	0.69
44:Hy:92:TYR:CE1	44:Hy:101:VAL:HG21	2.27	0.69
69:hb:15:GLU:OE1	69:hb:15:GLU:N	2.25	0.69
78:1b:2355:G:O2'	78:1b:2356:A:O5'	2.04	0.69
8:g:200:ASN:O	8:g:204:GLY:HA2	1.92	0.69
78:Aa:1101:G:OP2	42:Ia:196:LYS:NZ	2.16	0.69
78:Aa:1219:C:O2'	78:Aa:1286:A:N1	2.19	0.69
49:Pa:157:LYS:O	49:Pa:162:ARG:NH2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:227:U:O4	1:2b:235:G:O6	2.09	0.69
51:Py:25:SER:OG	51:Py:28:ASN:ND2	2.25	0.69
78:1b:1562:C:O2'	78:1b:1563:C:O5'	2.09	0.69
1:a:68:A:OP1	9:h:171:LYS:NZ	2.24	0.69
1:a:129:U:O4'	1:a:264:G:N2	2.25	0.69
20:t:7:GLU:OE1	20:t:10:SER:OG	2.08	0.69
20:t:94:ASP:OD2	20:t:98:TYR:OH	2.05	0.69
78:Aa:1695:U:O2'	78:Aa:1749:A:N1	2.25	0.69
78:Aa:2356:A:O2'	51:A:138:LYS:O	2.10	0.69
40:Ga:111:GLN:OE1	40:Ga:112:LYS:NZ	2.26	0.69
42:Ia:236:ILE:O	42:Ia:240:VAL:HG23	1.92	0.69
49:Pa:159:ARG:NH1	49:Pa:165:THR:HG22	2.07	0.69
69:S:43:LYS:O	69:S:46:THR:OG1	2.09	0.69
76:Z:4:VAL:O	76:Z:94:GLY:N	2.25	0.69
23:Vb:73:ALA:O	23:Vb:77:GLY:N	2.25	0.69
39:Cy:6:VAL:N	39:Cy:20:LEU:O	2.24	0.69
45:Iy:76:MET:O	45:Iy:80:SER:OG	2.10	0.69
1:a:1402:G:OP2	19:s:5:ARG:NH2	2.24	0.69
1:a:1483:A:OP2	1:a:1521:G:N2	2.26	0.69
1:a:1568:C:OP1	20:t:36:LYS:NZ	2.19	0.69
78:Aa:3312:U:OP1	38:Ea:24:SER:OG	2.09	0.69
42:Ia:138:TYR:N	42:Ia:233:GLU:O	2.26	0.69
55:E:68:THR:HG22	55:E:71:SER:O	1.93	0.69
1:2b:332:U:OP1	11:Ib:31:ARG:NE	2.24	0.69
1:2b:1298:U:O2'	5:Cb:212:LYS:NZ	2.19	0.69
63:by:18:ARG:NH2	78:1b:951:A:OP1	2.25	0.69
1:a:649:U:O2'	1:a:650:U:O5'	2.03	0.69
1:a:732:G:O2'	1:a:733:A:O4'	2.09	0.69
39:Fa:338:LYS:O	39:Fa:340:GLY:N	2.25	0.69
43:Ja:185:ARG:O	43:Ja:188:THR:OG1	2.08	0.69
14:Lb:63:LEU:HD23	14:Lb:63:LEU:H	1.57	0.69
1:a:148:A:N6	1:a:166:C:N4	2.40	0.69
1:a:152:U:O2'	9:h:4:ASN:OD1	2.09	0.69
1:a:494:U:O2'	1:a:495:C:O5'	2.09	0.69
1:a:632:U:OP2	14:m:102:LYS:NZ	2.24	0.69
1:a:1242:A:O2'	1:a:1244:A:OP1	2.10	0.69
1:a:1553:G:H3'	4:q:47:ARG:HH21	1.55	0.69
1:2b:1357:A:N3	21:Tb:129:GLN:NE2	2.41	0.69
3:Ba:33:LYS:NZ	3:Ba:42:ASN:OD1	2.26	0.69
29:bb:33:LEU:O	29:bb:46:VAL:N	2.25	0.69
40:Dy:250:ASP:OD2	40:Dy:254:LYS:NZ	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:Ly:62:THR:O	47:Ly:65:TYR:N	2.26	0.69
48:My:125:LYS:NZ	78:1b:3259:U:O2'	2.25	0.69
50:Oy:113[A]:ASP:O	50:Oy:117[A]:ARG:NH1	2.25	0.69
71:jb:56:ARG:NH2	78:1b:364:G:N7	2.41	0.69
6:e:210:GLU:OE2	19:s:19:ARG:NH1	2.25	0.69
78:Aa:2115:G:N2	78:Aa:2120:A:N3	2.40	0.69
78:Aa:2722:U:O2'	55:E:88:ARG:O	2.10	0.69
78:Aa:2744:U:O2	78:Aa:2749:G:O6	2.10	0.69
78:Aa:2762:A:N7	78:Aa:2795:U:O4	2.26	0.69
78:Aa:3151:U:OP1	38:Ea:128:LYS:NZ	2.26	0.69
40:Ga:132:THR:HG21	40:Ga:170:GLY:HA2	1.75	0.69
45:La:12:GLN:OE1	45:La:128:ARG:NE	2.25	0.69
1:2b:611:U:OP2	25:Xb:5:LYS:NZ	2.24	0.69
7:Eb:100:ARG:NH2	7:Eb:121:TYR:O	2.26	0.69
22:Ub:63:LEU:HD13	22:Ub:86:ILE:HD12	1.75	0.69
33:gb:194:GLY:O	33:gb:196:ASN:ND2	2.25	0.69
36:3b:70:G:N2	36:3b:87:G:O2'	2.25	0.69
42:Fy:210:PRO:O	78:1b:1167:U:O2'	2.10	0.69
43:Gy:206:GLU:N	43:Gy:206:GLU:OE1	2.25	0.69
51:Py:69:ARG:NH1	78:1b:3308:C:N3	2.40	0.69
55:Ty:89:LEU:HD23	55:Ty:91:LEU:HD21	1.75	0.69
66:ey:45:ARG:O	78:1b:1145:G:O2'	2.10	0.69
1:a:568:G:OP2	25:y:70:LYS:NZ	2.25	0.69
1:a:1476:C:O2	21:u:48:GLN:NE2	2.25	0.69
1:a:1565:C:OP1	20:t:41:ARG:NH2	2.25	0.69
5:d:141:ARG:NH2	5:d:151:PRO:O	2.25	0.69
6:e:209:ILE:O	19:s:20:TYR:OH	2.06	0.69
9:h:136:LYS:NZ	9:h:174:LYS:O	2.24	0.69
26:z:54:ALA:HB2	26:z:79:VAL:HG22	1.75	0.69
78:Aa:1502:C:N4	78:Aa:1515:A:N6	2.40	0.69
78:Aa:2955:U:OP2	78:Aa:2977:G:N1	2.25	0.69
78:Aa:3303:G:O2'	78:Aa:3305:A:N6	2.21	0.69
36:Ca:142:C:OP1	49:Pa:62:TYR:OH	2.11	0.69
40:Ga:290:ILE:HG13	45:La:206:LEU:HD21	1.75	0.69
49:Pa:124:ASP:OD1	49:Pa:126:THR:N	2.26	0.69
1:2b:76:A:N3	1:2b:80:A:N6	2.41	0.69
1:2b:514:G:C5	1:2b:537:G:N2	2.61	0.69
1:2b:1502:G:N7	21:Tb:102:ARG:NH2	2.41	0.69
3:Ba:76:SER:OG	3:Ba:77:GLU:N	2.23	0.69
7:Eb:252:ARG:NH2	7:Eb:253:ASP:OD1	2.25	0.69
28:ab:45:VAL:HG23	28:ab:46:GLU:H	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cy:332:LYS:NZ	78:1b:599:C:OP1	2.17	0.69
45:Iy:74:LYS:O	45:Iy:78:THR:HG23	1.93	0.69
78:1b:1244:A:N6	78:1b:1271:A:OP1	2.26	0.69
1:a:1244:A:O2'	1:a:1246:C:OP1	2.08	0.69
1:a:1546:G:OP2	20:t:134:ARG:NE	2.25	0.69
8:g:197:GLU:OE2	8:g:209:TYR:N	2.26	0.69
78:Aa:297:G:OP2	78:Aa:297:G:N2	2.18	0.69
78:Aa:1392:G:N2	78:Aa:1417:G:O2'	2.25	0.69
78:Aa:3068:U:OP2	53:C:62:ARG:NH2	2.25	0.69
78:Aa:3186:A:O2'	44:Ka:43:VAL:N	2.26	0.69
35:Bb:76:A:O2'	54:D:50:LYS:NZ	2.25	0.69
41:Ha:51:ARG:NH1	41:Ha:161:ALA:O	2.26	0.69
45:La:3:ARG:NH1	45:La:4:ARG:O	2.25	0.69
7:Eb:103:TYR:O	7:Eb:182:TYR:OH	2.11	0.69
40:Dy:52:VAL:HG22	40:Dy:147:ASP:HB3	1.75	0.69
45:Iy:47:PRO:O	45:Iy:172:GLY:N	2.26	0.69
46:Jy:112:LEU:O	46:Jy:114:ILE:HD12	1.92	0.69
55:Ty:88:ARG:O	78:1b:2722:U:O2'	2.11	0.69
59:Xy:120:LYS:NZ	78:1b:1832:C:OP1	2.25	0.69
78:1b:591:G:N2	78:1b:612:U:OP1	2.26	0.69
78:1b:880:G:O2'	78:1b:881:C:OP1	2.11	0.69
78:1b:1222:G:O2'	78:1b:1285:G:N2	2.19	0.69
2:b:139:VAL:HG23	2:b:141:ILE:HG12	1.74	0.69
23:w:58:TYR:OH	24:x:20:THR:O	2.05	0.69
28:1:87:ARG:O	28:1:92:ARG:NH1	2.25	0.69
78:Aa:2654:C:O3'	76:Z:98:LYS:NZ	2.18	0.69
40:Ga:41:LYS:NZ	55:E:30:TYR:O	2.26	0.69
52:B:30:VAL:O	52:B:34:THR:HG23	1.92	0.69
1:2b:1448:G:P	1:2b:1449:U:OP2	2.51	0.68
26:Yb:91:LEU:O	26:Yb:95:GLY:N	2.26	0.68
27:Zb:44:GLN:NE2	27:Zb:44:GLN:O	2.26	0.68
39:Cy:338:LYS:NZ	78:1b:579:G:OP2	2.26	0.68
45:Iy:168:SER:OG	45:Iy:170:LYS:N	2.25	0.68
65:dy:10:ARG:NH2	78:1b:3386:G:OP1	2.26	0.68
66:ey:27:ARG:NH1	78:1b:655:C:OP2	2.24	0.68
1:a:1027:A:OP1	1:a:1789:G:O2'	2.10	0.68
1:a:1481:C:OP1	21:u:63:ARG:NH1	2.25	0.68
3:c:122:GLU:OE2	3:c:165:ARG:NH2	2.25	0.68
78:Aa:1071:U:O2'	78:Aa:1072:G:O5'	2.09	0.68
53:C:114:LYS:O	53:C:146:LYS:NZ	2.20	0.68
1:2b:219:A:OP1	9:Gb:227:ARG:NH2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:568:G:OP2	25:Xb:70:LYS:NZ	2.19	0.68
9:Gb:2:LYS:O	9:Gb:3:LEU:HD23	1.93	0.68
15:Mb:97:LEU:HD23	15:Mb:118:ALA:O	1.93	0.68
50:Oy:8[A]:VAL:HG22	50:Oy:34[A]:VAL:CG1	2.23	0.68
51:Py:182:ILE:HD11	78:1b:3217:C:C6	2.27	0.68
59:Xy:91:ASN:N	59:Xy:94:GLN:OE1	2.26	0.68
78:Aa:3000:A:O3'	38:Ea:120:LYS:NZ	2.25	0.68
72:V:26:LYS:NZ	72:V:27:ILE:O	2.26	0.68
8:Fb:135:ASP:O	8:Fb:139:ASN:ND2	2.27	0.68
26:Yb:41:ARG:NH2	26:Yb:52:LYS:O	2.26	0.68
45:Iy:74:LYS:NZ	78:1b:2838:A:O2'	2.26	0.68
48:My:23:ILE:HG21	48:My:28:SER:HB2	1.76	0.68
57:Vy:80:ARG:NH1	57:Vy:117:PRO:O	2.26	0.68
71:jb:5:THR:OG1	78:1b:884:A:OP1	2.10	0.68
1:a:1301:U:OP1	5:d:97:ARG:NH1	2.25	0.68
1:a:1430:U:O2'	1:a:1433:G:OP1	2.11	0.68
1:a:1597:A:C6	30:4:14:TYR:CA	2.75	0.68
2:b:79:ARG:NH1	2:b:164:ASN:O	2.26	0.68
78:Aa:870:G:O2'	78:Aa:871:U:OP2	2.08	0.68
78:Aa:2842:U:O5'	78:Aa:2844:C:N4	2.26	0.68
78:Aa:3109:G:OP1	74:X:93:LYS:NZ	2.26	0.68
78:Aa:3328:G:OP1	38:Ea:385:LYS:NZ	2.26	0.68
46:Ma:31:THR:O	46:Ma:34:SER:OG	2.05	0.68
1:2b:153:G:O5'	26:Yb:131:ARG:NH1	2.26	0.68
1:2b:1562:G:OP1	21:Tb:89:ARG:NH2	2.27	0.68
5:Cb:236:PRO:O	23:Vb:33:GLN:NE2	2.26	0.68
39:Cy:205:PRO:O	39:Cy:246:ARG:NH2	2.26	0.68
78:1b:1244:A:O2'	78:1b:1249:G:O6	2.11	0.68
78:1b:3055:U:O2'	78:1b:3057:U:OP1	2.09	0.68
1:a:361:C:N4	1:a:379:U:OP1	2.25	0.68
1:a:696:C:O2	1:a:697:C:N4	2.25	0.68
1:a:1513:G:O2'	1:a:1515:A:N3	2.25	0.68
1:a:1552:U:O2	30:4:14:TYR:OH	2.01	0.68
5:d:103:VAL:HG11	5:d:187:LEU:HD12	1.76	0.68
11:j:61:GLU:OE1	11:j:61:GLU:N	2.27	0.68
21:u:30:VAL:HG12	21:u:54:PHE:CD1	2.28	0.68
78:Aa:1824:U:O3'	72:V:17:ARG:NH2	2.27	0.68
78:Aa:2345:A:OP1	65:O:24:SER:OG	2.10	0.68
39:Fa:136:LEU:O	39:Fa:139:GLY:N	2.27	0.68
11:Ib:99:ALA:N	11:Ib:169:ILE:O	2.25	0.68
11:Ib:153:GLU:OE2	11:Ib:156:VAL:N	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:By:3:HIS:ND1	38:By:3:HIS:O	2.26	0.68
69:hb:12:LYS:NZ	69:hb:20:GLN:OE1	2.26	0.68
1:a:799:A:O2'	7:f:199:GLU:OE1	2.12	0.68
14:m:27:THR:O	14:m:30:ARG:NH1	2.26	0.68
15:n:103:LEU:HG	15:n:115:VAL:HG13	1.75	0.68
16:o:30:SER:OG	16:o:66:ILE:O	2.11	0.68
23:w:66:ASP:HA	23:w:69:LEU:HD12	1.75	0.68
27:0:62:VAL:O	27:0:66:VAL:HG23	1.94	0.68
78:Aa:970:A:OP1	63:M:19:ASN:ND2	2.26	0.68
55:E:35:LYS:N	55:E:38:ASP:OD2	2.26	0.68
1:2b:229:U:C4	1:2b:237:C:N3	2.61	0.68
1:2b:486:G:N1	1:2b:502:U:C4	2.62	0.68
1:2b:856:A:OP1	10:Hb:116:ARG:NH2	2.26	0.68
18:Qb:32:ASN:N	18:Qb:67:VAL:O	2.25	0.68
38:By:267:ALA:O	78:1b:2989:U:O2'	2.10	0.68
40:Dy:281:GLU:N	40:Dy:281:GLU:OE1	2.26	0.68
50:Oy:110[A]:PRO:O	50:Oy:112[A]:TYR:N	2.26	0.68
72:kb:2:ALA:N	78:1b:1613:A:OP1	2.27	0.68
78:1b:1564:U:C2	78:1b:1576:G:N1	2.62	0.68
1:a:115:G:N2	1:a:302:U:HO2'	1.92	0.68
78:Aa:1081:U:O2'	78:Aa:1082:U:OP2	2.11	0.68
78:Aa:1713:G:O2'	78:Aa:1730:G:N2	2.27	0.68
78:Aa:2909:U:HO2'	78:Aa:3105:U:HO2'	1.41	0.68
42:Ia:121:LYS:HB2	55:E:133:ALA:HB3	1.76	0.68
3:Ba:194:ASN:ND2	3:Ba:210:ILE:O	2.26	0.68
20:Sb:117:LYS:O	20:Sb:120:ARG:NH2	2.27	0.68
39:Cy:337:GLU:OE1	39:Cy:337:GLU:N	2.27	0.68
45:Iy:40:LYS:NZ	78:1b:1011:A:OP1	2.26	0.68
78:1b:1635:G:N2	78:1b:1638:A:OP2	2.26	0.68
78:Aa:433:A:OP2	67:Q:57:LYS:NZ	2.26	0.68
54:D:148:LEU:HD23	54:D:149:LYS:N	2.07	0.68
1:2b:647:G:N2	1:2b:687:G:H22	1.92	0.68
1:2b:1678:A:OP2	11:Ib:42:ARG:NH1	2.26	0.68
3:Ba:212:VAL:HG13	3:Ba:213:ARG:H	1.58	0.68
14:Lb:36:LYS:NZ	14:Lb:62:GLY:O	2.26	0.68
39:Cy:36:HIS:O	39:Cy:40:THR:OG1	2.03	0.68
46:Jy:90:GLN:O	46:Jy:91:LEU:HD23	1.93	0.68
61:Zy:68:ILE:O	61:Zy:115:LYS:NZ	2.26	0.68
12:k:151:ASP:O	12:k:154:LYS:NZ	2.20	0.68
78:Aa:420:G:O2'	78:Aa:2384:A:N3	2.23	0.68
78:Aa:1063:G:C6	55:E:109:VAL:HG22	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:Bb:38:U:O2'	35:Bb:42:A:N6	2.26	0.68
36:Ca:143:U:OP1	49:Pa:38:ARG:NH2	2.27	0.68
42:Ia:103:LEU:CD2	42:Ia:130:ILE:HD11	2.23	0.68
49:Pa:11:GLN:O	49:Pa:11:GLN:NE2	2.26	0.68
1:2b:237:C:O2'	1:2b:238:U:O5'	2.11	0.68
1:2b:623:A:O2'	1:2b:624:G:OP1	2.09	0.68
1:2b:630:A:C5	78:1b:846:A:N6	2.62	0.68
1:2b:1534:G:OP2	27:Zb:74:SER:OG	2.09	0.68
2:Ab:56:LYS:NZ	23:Vb:66:ASP:OD1	2.27	0.68
6:Db:69:LEU:HA	6:Db:72:LEU:HD12	1.75	0.68
6:Db:210:GLU:OE1	19:Rb:19:ARG:NH1	2.27	0.68
25:Xb:102:VAL:HG12	25:Xb:127:VAL:HG12	1.76	0.68
45:Iy:168:SER:OG	45:Iy:169:LYS:N	2.24	0.68
72:kb:51:LEU:HD12	72:kb:52:TYR:N	2.09	0.68
78:1b:707:U:OP1	78:1b:780:A:O2'	2.11	0.68
78:1b:2314:U:O2'	78:1b:2315:G:OP1	2.10	0.68
1:a:1773:C:OP2	75:Y:2:ARG:NE	2.27	0.68
78:Aa:520:U:O4	39:Fa:349:THR:OG1	2.10	0.68
78:Aa:1508:C:OP1	51:A:127:ARG:NH2	2.26	0.68
78:Aa:1711:C:OP1	61:K:78:ASN:ND2	2.27	0.68
78:Aa:2509:U:O2'	78:Aa:2510:U:O5'	2.12	0.68
38:Ea:221:THR:O	38:Ea:334:ARG:NH1	2.25	0.68
42:Ia:186:HIS:O	42:Ia:190:THR:OG1	2.11	0.68
45:La:145:LYS:O	45:La:149:VAL:HG23	1.94	0.68
1:2b:235:G:N2	1:2b:236:A:H62	1.91	0.68
1:2b:732:G:O2'	1:2b:735:C:N4	2.26	0.68
1:2b:1471:A:O2'	1:2b:1472:C:O5'	2.10	0.68
8:Fb:72:HIS:ND1	18:Qb:79:TYR:OH	2.20	0.68
55:Ty:13:TYR:OH	78:1b:1050:U:OP2	2.11	0.68
55:Ty:137:GLU:N	55:Ty:137:GLU:OE1	2.26	0.68
5:d:203:LYS:O	5:d:206:THR:OG1	2.12	0.68
78:Aa:637:C:O2'	78:Aa:638:C:OP2	2.07	0.68
78:Aa:681:U:O4	39:Fa:118:LYS:NZ	2.27	0.68
78:Aa:3182:G:N2	78:Aa:3189:G:OP1	2.25	0.68
38:Ea:281:LYS:NZ	38:Ea:352:GLU:O	2.18	0.68
41:Ha:24:ALA:O	41:Ha:26:ARG:NH1	2.27	0.68
41:Ha:49:GLY:O	41:Ha:163:PHE:N	2.27	0.68
50:Qa:106:GLU:N	50:Qa:106:GLU:OE1	2.26	0.68
50:Qa:174:PHE:O	50:Qa:178:VAL:HG23	1.92	0.68
64:N:16:LEU:O	64:N:20:SER:OG	2.10	0.68
80:ba:27:VAL:N	80:ba:189:GLN:O	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ba:99:ASN:OD1	3:Ba:100:PHE:N	2.26	0.67
25:Xb:59:ILE:HD12	25:Xb:71:CYS:HB2	1.76	0.67
35:4b:52:G:N2	46:Jy:9:MET:HE1	2.08	0.67
53:Ry:130:ASN:ND2	78:1b:854:G:O2'	2.27	0.67
59:Xy:136:ALA:HA	59:Xy:139:ILE:HD12	1.77	0.67
78:1b:448:U:O2	78:1b:488:U:O2'	2.11	0.67
2:b:88:LYS:O	2:b:92:HIS:ND1	2.27	0.67
8:g:119:ASP:O	8:g:123:VAL:HG23	1.94	0.67
28:1:12:LYS:O	28:1:15:ARG:NH1	2.27	0.67
35:Bb:7:G:OP1	40:Ga:33:ARG:NH1	2.27	0.67
35:Bb:62:U:O4	35:Bb:63:A:N6	2.26	0.67
1:2b:229:U:C4	1:2b:236:A:N6	2.63	0.67
20:Sb:100:THR:O	20:Sb:101:LEU:HD23	1.94	0.67
38:By:12:GLY:O	78:1b:3011:A:N6	2.28	0.67
65:dy:11:GLU:OE2	65:dy:74:ARG:NH2	2.28	0.67
74:mb:111:ARG:NE	78:1b:3121:U:OP2	2.24	0.67
78:1b:270:U:O2'	78:1b:318:A:O2'	2.11	0.67
78:1b:707:U:O2'	78:1b:754:G:N3	2.28	0.67
1:a:1597:A:C4	30:4:13:ARG:C	2.72	0.67
78:Aa:1456:A:N7	65:O:26:LYS:NZ	2.37	0.67
78:Aa:3227:A:O2'	48:Oa:133:LYS:NZ	2.22	0.67
39:Cy:33:ASP:OD1	39:Cy:34:ILE:N	2.27	0.67
43:Gy:144:GLU:OE1	49:Ny:6:TYR:OH	2.12	0.67
53:Ry:120:TYR:OH	78:1b:1720:U:OP2	2.04	0.67
1:a:1149:G:N2	1:a:1766:A:OP1	2.16	0.67
1:a:1427:A:O2'	1:a:1428:G:OP1	2.09	0.67
3:c:82:ARG:NH2	3:c:191:GLU:OE2	2.28	0.67
9:h:35:GLU:OE2	58:H:74:LYS:NZ	2.28	0.67
34:3:9:LEU:CD2	34:3:55:VAL:HG22	2.24	0.67
78:Aa:439:C:HO2'	78:Aa:494:G:N2	1.92	0.67
78:Aa:1201:C:N4	78:Aa:2857:C:OP1	2.24	0.67
78:Aa:3369:G:O5'	58:H:56:ARG:NH2	2.28	0.67
45:La:10:ARG:O	45:La:59:GLN:N	2.28	0.67
1:2b:1205:C:OP2	1:2b:1206:U:C4	2.46	0.67
18:Qb:54:LEU:HD11	18:Qb:112:TYR:HD2	1.60	0.67
50:Oy:54[A]:TYR:OH	50:Oy:73[A]:PHE:O	2.12	0.67
54:Sy:155:ARG:NH1	54:Sy:171:PHE:O	2.26	0.67
1:a:50:C:OP2	1:a:423:G:N2	2.28	0.67
1:a:1492:A:O2'	1:a:1493:A:O4'	2.12	0.67
1:a:1796:C:OP1	28:1:87:ARG:NH1	2.26	0.67
8:g:74:ALA:O	18:r:122:ARG:NH2	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:3160:U:C2	78:Aa:3291:G:C2	2.82	0.67
36:Ca:70:G:N2	36:Ca:88:A:H62	1.93	0.67
44:Ka:93:VAL:HG12	74:X:82:LEU:HD13	1.76	0.67
46:Ma:50:ALA:N	46:Ma:63:GLU:O	2.28	0.67
73:W:20:ASN:ND2	73:W:42:ARG:O	2.26	0.67
39:Cy:216:VAL:O	39:Cy:220:ARG:N	2.27	0.67
44:Hy:10:ILE:O	44:Hy:52:LEU:HD12	1.95	0.67
54:Sy:90:MET:HE1	54:Sy:114:HIS:CD2	2.29	0.67
56:Uy:42:LYS:NZ	78:1b:1686:U:OP1	2.22	0.67
71:jb:43:LYS:HZ1	78:1b:55:G:P	2.17	0.67
78:1b:1151:U:OP2	78:1b:1152:G:N2	2.27	0.67
17:p:82:LYS:NZ	17:p:114:ARG:O	2.27	0.67
32:6:137:ASP:O	32:6:151:ASN:ND2	2.28	0.67
78:Aa:2964:G:N2	78:Aa:2967:A:OP2	2.27	0.67
1:2b:151:G:N3	9:Gb:13:GLN:NE2	2.42	0.67
6:Db:215:GLU:OE1	6:Db:215:GLU:N	2.27	0.67
27:Zb:95:HIS:ND1	27:Zb:96:SER:O	2.28	0.67
59:Xy:92:LYS:HA	59:Xy:95:ILE:HD12	1.77	0.67
1:a:327:U:O4	1:a:337:G:N2	2.28	0.67
1:a:1312:A:OP1	19:s:2:GLY:N	2.27	0.67
78:Aa:29:C:O3'	49:Pa:172:ARG:NH2	2.27	0.67
78:Aa:373:A:O2'	60:J:98:ASN:ND2	2.27	0.67
78:Aa:1464:G:N1	78:Aa:1467:A:OP2	2.26	0.67
78:Aa:3269:U:O2	41:Ha:128:LYS:N	2.27	0.67
43:Ja:228:GLU:O	43:Ja:232:HIS:ND1	2.22	0.67
49:Pa:133:ILE:C	49:Pa:134:LEU:HD12	2.19	0.67
57:G:29:SER:O	57:G:110:LYS:NZ	2.27	0.67
1:2b:415:C:O2	1:2b:418:G:C6	2.48	0.67
1:2b:895:G:H21	17:Ob:38:THR:HG21	1.59	0.67
36:3b:115:C:OP2	78:1b:1830:G:N2	2.27	0.67
49:Ny:203:ARG:NH1	78:1b:665:A:OP1	2.27	0.67
54:Sy:115:ARG:NH2	78:1b:1320:C:O2	2.27	0.67
72:kb:46:ARG:NE	72:kb:47:GLY:O	2.25	0.67
78:1b:806:A:N3	78:1b:2812:C:O2'	2.25	0.67
78:1b:1564:U:C4	78:1b:1576:G:C6	2.83	0.67
2:b:117:GLU:O	5:d:40:LYS:NZ	2.21	0.67
8:g:188:LYS:NZ	8:g:196:GLU:OE1	2.28	0.67
21:u:15:ILE:HD11	21:u:63:ARG:HD3	1.76	0.67
78:Aa:78:U:OP1	49:Pa:176:LYS:NZ	2.28	0.67
78:Aa:316:U:O2'	70:T:30:LYS:NZ	2.27	0.67
78:Aa:2869:U:O2'	78:Aa:2873:U:OP2	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Fa:361:HIS:O	54:D:28:ARG:NH2	2.28	0.67
45:La:76:MET:HE1	45:La:147:VAL:O	1.94	0.67
64:N:26:GLY:O	64:N:30:THR:HG23	1.95	0.67
66:P:6:HIS:ND1	66:P:6:HIS:O	2.28	0.67
1:2b:488:G:C2	1:2b:499:U:O4	2.48	0.67
39:Cy:326:ARG:NH1	78:1b:608:A:O2'	2.28	0.67
53:Ry:46:LYS:NZ	78:1b:1766:G:OP2	2.28	0.67
1:a:702:G:O2'	1:a:703:G:O4'	2.11	0.67
1:a:706:A:O2'	1:a:707:A:O4'	2.07	0.67
1:a:1035:G:OP2	16:o:9:LYS:NZ	2.18	0.67
4:q:90:ILE:HD11	4:q:112:LEU:HD21	1.76	0.67
20:t:28:ILE:HD13	20:t:54:LEU:HA	1.77	0.67
78:Aa:1502:C:N4	78:Aa:1513:G:N7	2.42	0.67
57:G:83:LYS:NZ	57:G:84:SER:O	2.28	0.67
1:2b:272:U:O2'	1:2b:273:G:O4'	2.13	0.67
1:2b:861:U:OP2	16:Nb:64:ARG:NH2	2.27	0.67
1:2b:972:G:N2	78:1b:847:A:H2	1.91	0.67
1:2b:1088:A:O3'	28:ab:89:ARG:NH2	2.27	0.67
28:ab:53:LEU:O	28:ab:57:SER:N	2.27	0.67
54:Sy:130:GLU:N	54:Sy:130:GLU:OE1	2.27	0.67
78:1b:1713:G:N2	78:1b:1731:A:OP2	2.27	0.67
1:a:639:U:O2'	1:a:640:U:OP2	2.13	0.67
1:a:1204:A:OP1	1:a:1456:C:N4	2.28	0.67
1:a:1310:U:C2	1:a:1316:G:N1	2.63	0.67
1:a:1472:C:C2	1:a:1534:G:N2	2.63	0.67
38:Ea:370:PHE:O	38:Ea:371:GLN:NE2	2.27	0.67
40:Ga:17:GLN:NE2	55:E:22:HIS:O	2.28	0.67
57:G:31:ALA:HB2	57:G:69:LEU:HD21	1.76	0.67
57:G:90:GLY:O	58:H:16:GLY:N	2.26	0.67
76:Z:36:PHE:O	76:Z:41:ARG:NE	2.27	0.67
1:2b:639:U:OP2	10:Hb:119:THR:OG1	2.11	0.67
57:Vy:128:ARG:O	57:Vy:132:ASN:ND2	2.28	0.67
78:Aa:845:G:N2	78:Aa:848:A:OP2	2.28	0.67
78:Aa:1045:C:OP1	45:La:133:GLN:NE2	2.29	0.67
78:Aa:1627:U:C2	78:Aa:1817:G:N1	2.63	0.67
78:Aa:3306:U:OP1	38:Ea:225:GLY:N	2.28	0.67
52:B:134:GLY:O	52:B:137:THR:OG1	2.13	0.67
1:2b:57:G:OP1	26:Yb:112:LYS:NZ	2.28	0.66
1:2b:1535:U:H2'	8:Fb:187:ILE:HD11	1.77	0.66
14:Lb:53:TYR:OH	14:Lb:114:ALA:HB2	1.94	0.66
30:db:18:SER:OG	30:db:19:ARG:NH1	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cy:117:GLU:OE2	78:1b:674:G:O2'	2.05	0.66
69:hb:45:LYS:O	69:hb:49:LYS:N	2.28	0.66
78:Aa:1492:G:O6	73:W:2:ALA:N	2.27	0.66
35:Bb:97:A:O4'	42:Ia:225:GLN:NE2	2.28	0.66
36:Ca:41:A:OP1	71:U:65:ARG:N	2.28	0.66
36:Ca:70:G:O2'	36:Ca:87:G:N2	2.29	0.66
47:Na:128:ARG:NH1	69:S:109:ILE:O	2.28	0.66
55:E:11:THR:HG22	55:E:14:MET:HE2	1.77	0.66
1:2b:704:C:N3	1:2b:734:A:N1	2.42	0.66
1:2b:1334:U:O3'	22:Ub:85:ARG:NH2	2.27	0.66
15:Mb:69:ALA:HA	15:Mb:72:ILE:HD12	1.76	0.66
43:Gy:195:SER:OG	43:Gy:197:VAL:O	2.12	0.66
46:Jy:60:ARG:NH1	76:ob:104:LEU:O	2.29	0.66
49:Ny:34:ASN:O	49:Ny:65:ARG:NH1	2.28	0.66
78:1b:826:G:OP1	78:1b:1590:G:O2'	2.12	0.66
6:e:192:PRO:O	6:e:195:SER:OG	2.04	0.66
15:n:132:GLU:HG2	15:n:133:LEU:HD12	1.77	0.66
25:y:76:LEU:O	25:y:80:GLY:N	2.28	0.66
78:Aa:389:A:OP1	51:A:4:TYR:OH	2.09	0.66
78:Aa:1889:G:OP1	38:Ea:246:LEU:N	2.27	0.66
1:2b:420:A:OP1	9:Gb:96:SER:OG	2.12	0.66
1:2b:1382:A:O2'	1:2b:1383:G:OP1	2.11	0.66
8:Fb:200:ASN:ND2	8:Fb:207:THR:OG1	2.29	0.66
13:Kb:2:LEU:HD12	13:Kb:3:MET:HA	1.77	0.66
16:Nb:99:ARG:NH2	16:Nb:119:GLU:OE2	2.28	0.66
53:Ry:71:ARG:NH1	78:1b:2101:C:OP2	2.28	0.66
1:a:1195:C:N4	18:r:143:ARG:O	2.23	0.66
9:h:57:ASP:OD1	9:h:60:GLY:N	2.28	0.66
20:t:28:ILE:HD11	20:t:56:LYS:HB2	1.77	0.66
28:1:26:CYS:SG	28:1:74:CYS:CB	2.83	0.66
78:Aa:1595:U:OP2	68:R:36:LYS:NZ	2.25	0.66
78:Aa:1878:G:O2'	78:Aa:1879:A:OP1	2.13	0.66
78:Aa:3175:U:OP1	67:Q:10:LYS:NZ	2.28	0.66
36:Ca:46:G:OP1	73:W:18:LYS:NZ	2.28	0.66
39:Cy:312:VAL:HG21	78:1b:610:G:C8	2.30	0.66
5:d:81:MET:SD	5:d:183:ALA:HB1	2.35	0.66
8:g:216:GLU:O	8:g:220:VAL:HG23	1.95	0.66
78:Aa:1236:G:N2	78:Aa:1244:A:OP1	2.27	0.66
36:Ca:128:U:OP1	36:Ca:129:C:N4	2.20	0.66
41:Ha:60:ASP:OD1	41:Ha:62:THR:OG1	2.11	0.66
39:Cy:25:VAL:O	39:Cy:28:ALA:N	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:Fy:239:LEU:O	42:Fy:242:SER:OG	2.14	0.66
68:gy:95:ILE:HD11	78:1b:2555:G:C5	2.30	0.66
78:1b:611:A:O2'	78:1b:612:U:OP2	2.12	0.66
2:b:20:ALA:HB2	2:b:172:LEU:HD13	1.76	0.66
78:Aa:198:A:N3	78:Aa:218:G:O2'	2.28	0.66
38:Ea:204:ALA:O	38:Ea:208:VAL:HG23	1.96	0.66
1:2b:227:U:C4	1:2b:235:G:C6	2.82	0.66
37:Ay:130:SER:OG	78:1b:2179:C:O2'	2.08	0.66
40:Dy:238:ASP:O	40:Dy:242:SER:N	2.28	0.66
50:Oy:101[A]:ARG:NE	78:1b:3173:G:OP2	2.23	0.66
50:Oy:169[A]:ALA:O	50:Oy:173[A]:ALA:N	2.29	0.66
51:Py:169:THR:OG1	51:Py:172:GLN:NE2	2.27	0.66
66:ey:118:LYS:NZ	78:1b:438:A:OP1	2.28	0.66
6:e:136:VAL:N	6:e:152:PHE:O	2.28	0.66
8:g:92:ARG:NH2	8:g:169:ASN:OD1	2.29	0.66
78:Aa:830:A:H62	78:Aa:864:G:H21	1.42	0.66
78:Aa:2362:C:O2'	78:Aa:2363:A:OP1	2.11	0.66
35:Bb:45:A:H5'	40:Ga:154:THR:HG21	1.76	0.66
1:2b:59:C:O2'	1:2b:60:U:O4'	2.13	0.66
1:2b:486:G:C6	1:2b:502:U:C4	2.84	0.66
1:2b:1088:A:O2'	28:ab:89:ARG:NH2	2.29	0.66
42:Fy:186:HIS:O	42:Fy:190:THR:OG1	2.07	0.66
72:kb:31:LEU:HD12	72:kb:33:LYS:O	1.96	0.66
78:1b:1015:U:O2	78:1b:1017:C:O2'	2.14	0.66
78:Aa:43:A:N7	78:Aa:2802:A:C6	2.64	0.66
47:Na:109:PHE:O	47:Na:113:VAL:HG23	1.96	0.66
56:F:98:THR:OG1	56:F:99:LYS:N	2.26	0.66
79:8:17:U:O2'	79:8:57:G:N2	2.28	0.66
1:2b:487:G:N1	1:2b:501:U:N3	2.44	0.66
36:3b:23:U:P	60:Yy:17:LYS:HZ2	2.19	0.66
48:My:127:LYS:O	48:My:130:THR:OG1	2.08	0.66
57:Vy:17:LEU:HD21	57:Vy:98:ASN:ND2	2.11	0.66
61:Zy:110:ALA:O	61:Zy:114:VAL:HG23	1.95	0.66
1:a:1597:A:C5	30:4:14:TYR:CA	2.77	0.66
8:g:53:VAL:HG22	8:g:62:VAL:HG11	1.77	0.66
78:Aa:826:G:OP1	78:Aa:1590:G:O2'	2.08	0.66
78:Aa:1062:A:HO2'	78:Aa:1063:G:P	2.18	0.66
39:Fa:26:PHE:CD1	39:Fa:130:ALA:HB2	2.31	0.66
46:Ma:51:ARG:O	46:Ma:61:ARG:NH2	2.28	0.66
50:Qa:25:LYS:O	50:Qa:29:ASN:ND2	2.29	0.66
1:2b:819:G:C6	1:2b:853:G:N1	2.64	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:1529:C:OP1	8:Fb:112:ARG:NE	2.29	0.66
33:gb:108:SER:OG	33:gb:128:ASP:N	2.28	0.66
38:By:382:THR:O	38:By:383:LEU:HD23	1.96	0.66
40:Dy:207:TYR:CZ	40:Dy:211:LEU:HD11	2.31	0.66
56:Uy:46:ALA:HB3	56:Uy:49:ASN:ND2	2.10	0.66
76:ob:45:ARG:NH1	78:1b:283:G:OP1	2.28	0.66
1:a:307:G:OP2	14:m:105:LYS:NZ	2.27	0.66
1:a:1417:A:O2'	18:r:128:LYS:NZ	2.29	0.66
21:u:16:ASN:OD1	21:u:56:LYS:NZ	2.28	0.66
28:1:43:ASN:OD1	28:1:45:VAL:N	2.28	0.66
78:Aa:47:C:OP2	78:Aa:48:A:O2'	2.13	0.66
78:Aa:519:A:O5'	42:Ia:70:LYS:NZ	2.28	0.66
78:Aa:2101:C:O2'	78:Aa:2102:U:OP1	2.12	0.66
78:Aa:2137:U:OP2	78:Aa:2142:A:N6	2.24	0.66
78:Aa:2155:G:O2'	37:Da:227:ARG:NH2	2.28	0.66
37:Ay:65:ASP:OD1	37:Ay:68:LYS:N	2.29	0.66
40:Dy:126:GLU:N	40:Dy:126:GLU:OE1	2.28	0.66
41:Ey:52:VAL:HG22	41:Ey:53:VAL:H	1.61	0.66
43:Gy:106:LYS:O	43:Gy:110:THR:HG23	1.96	0.66
57:Vy:121:GLU:N	57:Vy:121:GLU:OE2	2.26	0.66
64:cy:13:LYS:O	64:cy:17:VAL:HG23	1.96	0.66
73:lb:5:LYS:NZ	78:1b:1834:U:OP1	2.28	0.66
1:a:148:A:N6	1:a:166:C:H42	1.94	0.66
1:a:637:C:O2	10:i:114:ARG:NH2	2.29	0.66
2:b:30:GLN:O	2:b:33:GLN:N	2.28	0.66
14:m:101:GLU:OE1	25:y:13:ARG:NH2	2.28	0.66
78:Aa:3232:G:N2	78:Aa:3255:U:O2	2.29	0.66
1:2b:553:G:OP2	1:2b:554:C:O2'	2.07	0.65
1:2b:868:G:OP1	16:Nb:121:ARG:NH1	2.29	0.65
20:Sb:90:ASN:N	20:Sb:97:ASP:OD1	2.28	0.65
28:ab:36:ILE:O	28:ab:38:ARG:NH1	2.30	0.65
35:4b:44:C:OP2	46:Jy:137:ARG:NH2	2.29	0.65
64:cy:17:VAL:O	64:cy:21:GLY:N	2.28	0.65
78:Aa:408:A:N3	78:Aa:655:C:O2'	2.25	0.65
78:Aa:707:U:OP1	78:Aa:780:A:O2'	2.14	0.65
78:Aa:2568:C:O2'	78:Aa:2569:A:O5'	2.13	0.65
80:ba:19:LEU:HD22	80:ba:73:PHE:CE1	2.31	0.65
1:2b:161:U:OP2	9:Gb:87:ARG:NH2	2.29	0.65
1:2b:1245:G:O2'	1:2b:1246:C:O5'	2.14	0.65
18:Qb:129:PHE:O	18:Qb:137:ARG:NH1	2.29	0.65
33:gb:197:SER:OG	33:gb:217:ASP:N	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:341:A:O2'	11:j:86:SER:O	2.12	0.65
1:a:979:A:N3	1:a:1775:U:O2'	2.28	0.65
1:a:1358:G:O2'	21:u:133:ASP:OD2	2.14	0.65
9:h:126:ASP:H	58:h:78:ALA:CA	2.09	0.65
11:j:136:SER:OG	11:j:138:ASN:OD1	2.14	0.65
12:k:9:SER:OG	12:k:10:LYS:N	2.25	0.65
12:k:106:GLU:O	12:k:111:THR:OG1	2.04	0.65
4:q:33:PHE:CZ	4:q:112:LEU:HD22	2.31	0.65
78:Aa:1074:U:H1'	63:M:46:ALA:HB2	1.77	0.65
78:Aa:2662:G:O2'	78:Aa:2663:G:OP1	2.12	0.65
59:I:115:ARG:NH1	59:I:119:THR:OG1	2.28	0.65
1:2b:364:G:OP2	1:2b:377:G:N2	2.27	0.65
1:2b:1584:G:N2	1:2b:1611:A:OP2	2.27	0.65
19:Rb:50:ILE:O	19:Rb:54:THR:HG23	1.96	0.65
23:Vb:64:GLU:OE2	29:bb:2:VAL:N	2.30	0.65
38:By:368:GLY:O	58:Wy:17:ARG:NH1	2.30	0.65
50:Oy:136[A]:THR:OG1	50:Oy:137[A]:THR:N	2.25	0.65
72:kb:28:ASN:ND2	78:1b:1750:A:OP2	2.29	0.65
7:f:21:ASP:OD1	7:f:24:SER:OG	2.14	0.65
10:i:64:VAL:HG13	10:i:67:LEU:HD11	1.79	0.65
11:j:5:ARG:NH1	11:j:29:LEU:O	2.29	0.65
78:Aa:826:G:N2	78:Aa:1589:A:H61	1.95	0.65
78:Aa:1127:G:O2'	45:La:115:MET:HE1	1.97	0.65
78:Aa:1704:A:N7	78:Aa:1740:U:N3	2.44	0.65
44:Ka:90:MET:HE3	44:Ka:181:VAL:HG23	1.79	0.65
49:Pa:146:ALA:O	49:Pa:148:TYR:N	2.28	0.65
61:K:22:LYS:NZ	61:K:129:TRP:O	2.29	0.65
73:W:28:ARG:NH1	73:W:36:ARG:O	2.29	0.65
1:2b:819:G:C4	1:2b:853:G:N2	2.64	0.65
1:2b:1538:U:O2'	1:2b:1539:G:N2	2.23	0.65
3:Ba:72:ASP:OD1	17:Ob:114:ARG:NH2	2.30	0.65
26:Yb:86:GLU:OE1	26:Yb:90:ARG:NH1	2.30	0.65
39:Cy:164:GLU:OE1	39:Cy:164:GLU:N	2.30	0.65
39:Cy:335:ALA:O	39:Cy:338:LYS:N	2.29	0.65
44:Hy:85:GLY:HA3	44:Hy:187:ILE:HD12	1.77	0.65
78:1b:652:G:O2'	78:1b:654:C:OP2	2.14	0.65
1:a:526:A:OP2	26:z:93:ARG:NH2	2.29	0.65
78:Aa:218:G:H1	60:J:62:SER:HG	1.44	0.65
78:Aa:221:A:O2'	78:Aa:223:U:OP2	2.07	0.65
78:Aa:645:A:N6	78:Aa:2869:U:OP1	2.29	0.65
78:Aa:1508:C:O2'	78:Aa:2353:G:O2'	2.15	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:2283:G:OP1	78:Aa:2308:C:N4	2.28	0.65
53:C:43:LYS:O	53:C:47:ASN:ND2	2.28	0.65
1:2b:1279:C:OP1	6:Db:185:LYS:NZ	2.29	0.65
2:Ab:183:ARG:NH2	2:Ab:191:ARG:O	2.29	0.65
3:Ba:113:MET:HE1	3:Ba:211:HIS:HB2	1.79	0.65
36:3b:142:C:OP1	49:Ny:62:TYR:OH	2.14	0.65
38:By:117:ARG:NH2	38:By:176:ALA:O	2.30	0.65
79:6b:58:A:O2'	79:6b:60:C:OP2	2.05	0.65
1:a:625:C:H42	1:a:974:A:H61	1.43	0.65
5:d:187:LEU:HA	5:d:190:LEU:HD12	1.79	0.65
6:e:176:LEU:O	6:e:178:ARG:NH2	2.30	0.65
7:f:176:ASP:OD1	7:f:179:LYS:NZ	2.19	0.65
78:Aa:994:G:C2	78:Aa:1053:A:C5	2.85	0.65
78:Aa:1300:G:OP2	78:Aa:1301:A:O2'	2.09	0.65
78:Aa:3304:U:N3	38:Ea:333:LYS:O	2.30	0.65
38:Ea:232:ARG:NH1	38:Ea:269:GLN:O	2.29	0.65
45:La:52:LEU:HD12	45:La:152:LEU:HB3	1.78	0.65
52:B:152:HIS:ND1	52:B:162:ALA:O	2.30	0.65
65:O:68:GLU:HB2	65:O:71:LEU:HD21	1.78	0.65
1:2b:821:U:C4	1:2b:852:C:N3	2.63	0.65
2:Ab:134:LYS:O	2:Ab:137:SER:OG	2.13	0.65
9:Gb:160:ARG:O	9:Gb:170:THR:O	2.15	0.65
57:Vy:29:SER:O	57:Vy:66:LYS:NZ	2.30	0.65
63:by:46:ALA:O	63:by:50:THR:N	2.30	0.65
1:a:162:A:H3'	1:a:163:G:H21	1.61	0.65
1:a:1719:A:O2'	1:a:1720:G:OP1	2.13	0.65
26:z:104:SER:N	26:z:107:GLN:OE1	2.27	0.65
78:Aa:1048:A:HO2'	78:Aa:2632:G:HO2'	1.42	0.65
1:2b:1553:G:O3'	30:db:14:TYR:OH	2.14	0.65
6:Db:107:PHE:O	6:Db:111:ASN:ND2	2.30	0.65
19:Rb:33:ARG:NH1	33:gb:109:ASP:OD1	2.30	0.65
26:Yb:76:TYR:OH	26:Yb:86:GLU:OE2	2.15	0.65
38:By:274:SER:O	38:By:275:ARG:NH1	2.29	0.65
57:Vy:39:VAL:CG2	57:Vy:52:ALA:HB2	2.26	0.65
62:ay:89:GLN:OE1	62:ay:89:GLN:N	2.29	0.65
66:ey:33:ARG:NH2	78:1b:1407:A:O3'	2.30	0.65
67:fy:13:HIS:ND1	67:fy:93:THR:OG1	2.30	0.65
1:a:913:G:O2'	1:a:914:G:O5'	2.14	0.65
1:a:939:A:OP1	16:o:114:ARG:NH2	2.30	0.65
1:a:1496:U:O2'	1:a:1519:U:O2'	2.15	0.65
9:h:115:LYS:O	58:H:75:THR:HG22	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:0:71:ILE:HG21	27:0:76:ALA:HB2	1.78	0.65
32:6:108:VAL:HG12	32:6:114:VAL:HG22	1.79	0.65
54:D:8:GLN:HB2	54:D:64:ILE:HD11	1.79	0.65
80:ba:19:LEU:HD23	80:ba:88:PHE:HE1	1.61	0.65
1:2b:224:C:O2'	1:2b:225:A:OP1	2.12	0.65
41:Ey:65:ILE:HD12	41:Ey:79:VAL:HG22	1.78	0.65
3:c:229:MET:O	3:c:232:HIS:C	2.40	0.65
78:Aa:1258:U:N3	78:Aa:1261:G:OP2	2.30	0.65
78:Aa:1559:A:N1	78:Aa:1581:C:N3	2.45	0.65
78:Aa:1716:U:HO2'	78:Aa:1717:U:P	2.18	0.65
62:L:38:GLN:O	62:L:42:ARG:NH2	2.30	0.65
1:2b:486:G:N1	1:2b:501:U:C2	2.65	0.65
1:2b:1018:U:O4	1:2b:1019:A:N6	2.29	0.65
7:Eb:50:ASN:O	7:Eb:53:LYS:NZ	2.26	0.65
44:Hy:174:LYS:NZ	78:1b:3026:G:OP1	2.26	0.65
59:Xy:82:LEU:HD21	59:Xy:132:ALA:HB1	1.79	0.65
1:a:85:A:N3	1:a:148:A:O2'	2.29	0.65
11:j:92:ARG:NH1	78:Aa:3345:G:O3'	2.30	0.65
34:3:59:SER:N	34:3:60:GLU:OE1	2.30	0.65
78:Aa:661:G:H21	78:Aa:661:G:P	2.20	0.65
1:2b:1552:U:H3	1:2b:1556:A:H62	1.44	0.65
36:3b:82:U:O2'	36:3b:83:C:OP1	2.15	0.65
46:Jy:84:LEU:O	46:Jy:88:GLU:N	2.30	0.65
68:gy:74:ARG:HH22	78:1b:1639:C:P	2.20	0.65
78:1b:1696:A:OP2	78:1b:1749:A:N6	2.22	0.65
32:6:125:THR:OG1	32:6:144:CYS:SG	2.55	0.65
78:Aa:79:U:C2	78:Aa:325:A:C6	2.85	0.65
78:Aa:1117:G:OP1	63:M:5:LYS:N	2.30	0.65
78:Aa:2909:U:O2'	78:Aa:3105:U:O2'	2.15	0.65
78:Aa:2967:A:O2'	78:Aa:2968:G:OP1	2.15	0.65
45:La:77:THR:HG22	45:La:82:ARG:HA	1.78	0.65
52:B:74:GLU:OE1	52:B:74:GLU:N	2.30	0.65
54:D:9:VAL:HG22	54:D:61:ILE:HD13	1.79	0.65
19:Rb:24:LEU:O	19:Rb:58:MET:HE2	1.97	0.64
20:Sb:62:THR:N	20:Sb:65:GLU:OE1	2.30	0.64
33:gb:182:ASN:N	33:gb:189:GLU:OE1	2.29	0.64
69:hb:46:THR:O	69:hb:50:SER:N	2.30	0.64
77:pb:42:CYS:SG	77:pb:60:CYS:HB2	2.37	0.64
78:1b:93:C:OP2	78:1b:2764:C:O2'	2.14	0.64
78:1b:2500:A:O2'	78:1b:2501:U:OP1	2.13	0.64
1:a:1113:A:N6	1:a:1132:A:OP2	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1386:G:O5'	19:s:44:LYS:NZ	2.23	0.64
10:i:19:GLN:O	10:i:84:LYS:NZ	2.30	0.64
78:Aa:220:G:C6	78:Aa:1389:G:N2	2.65	0.64
51:A:108:ASP:OD1	51:A:110:THR:OG1	2.11	0.64
1:2b:1300:A:OP1	5:Cb:99:LYS:NZ	2.30	0.64
7:Eb:112:HIS:NE2	7:Eb:237:SER:OG	2.30	0.64
8:Fb:43:PHE:N	8:Fb:46:TRP:O	2.27	0.64
23:Vb:65:SER:O	23:Vb:69:LEU:N	2.29	0.64
40:Dy:11:ALA:O	40:Dy:14:SER:OG	2.12	0.64
46:Jy:159:THR:O	46:Jy:163:PHE:N	2.30	0.64
1:a:148:A:N6	1:a:166:C:C4	2.66	0.64
1:a:218:A:N1	1:a:843:U:O2'	2.30	0.64
1:a:961:U:H5''	16:o:71:ILE:HD12	1.80	0.64
2:b:135:GLU:O	2:b:139:VAL:HG22	1.97	0.64
21:u:65:ILE:HD13	21:u:114:VAL:HG11	1.79	0.64
26:z:41:ARG:NH2	26:z:52:LYS:O	2.30	0.64
78:Aa:2651:G:O3'	78:Aa:2760:C:N4	2.29	0.64
41:Ha:166:LYS:NZ	67:Q:4:SER:OG	2.28	0.64
1:2b:555:A:O2'	1:2b:556:A:O4'	2.09	0.64
1:2b:1749:A:O2'	75:nb:13:LEU:HD11	1.97	0.64
2:Ab:156:VAL:HG12	2:Ab:157:ASP:O	1.98	0.64
24:Wb:13:ALA:O	24:Wb:17:ALA:N	2.31	0.64
48:My:19:ARG:NH2	48:My:69:THR:OG1	2.31	0.64
54:Sy:81:TYR:CE2	54:Sy:90:MET:HE3	2.31	0.64
72:kb:51:LEU:HD12	72:kb:52:TYR:H	1.62	0.64
1:a:1529:C:O2	21:u:12:GLN:NE2	2.31	0.64
78:Aa:209:A:OP1	39:Fa:161:LYS:NZ	2.30	0.64
40:Ga:86:TYR:OH	40:Ga:250:ASP:O	2.11	0.64
42:Ia:197:GLN:OE1	42:Ia:197:GLN:N	2.29	0.64
47:Na:166:ALA:HB1	62:L:147:LEU:HD11	1.78	0.64
48:Oa:23:ILE:HD11	48:Oa:46:ILE:CD1	2.28	0.64
52:B:65:SER:OG	52:B:90:ASP:OD2	2.07	0.64
60:J:11:ASP:OD1	60:J:13:ARG:N	2.29	0.64
1:2b:704:C:N4	1:2b:734:A:H61	1.94	0.64
2:Ab:62:ARG:NH2	23:Vb:37:ALA:O	2.30	0.64
1:a:404:G:O2'	9:h:91:GLU:OE2	2.14	0.64
22:v:101:LYS:O	22:v:104:THR:OG1	2.14	0.64
26:z:55:VAL:HG12	26:z:75:VAL:HA	1.79	0.64
56:F:46:ALA:O	56:F:49:ASN:ND2	2.31	0.64
1:2b:819:G:C5	1:2b:853:G:N2	2.65	0.64
7:Eb:117:GLU:O	7:Eb:120:SER:OG	2.14	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:Hy:139:ASN:OD1	44:Hy:140:VAL:HG23	1.96	0.64
52:Qy:62:VAL:O	52:Qy:88:THR:OG1	2.16	0.64
1:a:1521:G:OP1	1:a:1523:G:N2	2.24	0.64
8:g:161:ASP:O	34:3:45:LYS:N	2.30	0.64
26:z:51:GLU:O	26:z:53:ASP:N	2.29	0.64
78:Aa:1523:U:OP1	78:Aa:1834:U:O2'	2.09	0.64
78:Aa:2674:A:H61	46:Ma:21:ILE:HG23	1.62	0.64
39:Fa:264:SER:OG	39:Fa:266:THR:N	2.31	0.64
40:Ga:113:LEU:HB3	40:Ga:115:LEU:HD23	1.80	0.64
46:Ma:101:ASN:CG	46:Ma:130:VAL:HG23	2.23	0.64
2:Ab:78:SER:OG	2:Ab:129:ASP:OD1	2.08	0.64
5:Cb:146:THR:O	5:Cb:148:LEU:N	2.31	0.64
16:Nb:40:TYR:CE1	16:Nb:53:LEU:HD21	2.33	0.64
18:Qb:134:ALA:O	18:Qb:137:ARG:NH2	2.30	0.64
51:Py:118:GLN:NE2	51:Py:147:GLU:OE1	2.30	0.64
71:jb:58:THR:OG1	71:jb:59:THR:N	2.27	0.64
78:1b:418:A:O2'	78:1b:630:A:OP1	2.16	0.64
1:a:1487:A:OP1	30:4:34:TYR:OH	2.15	0.64
23:w:17:CYS:O	23:w:21:ASN:N	2.30	0.64
78:Aa:3177:G:O2'	78:Aa:3179:U:OP1	2.09	0.64
41:Ha:96:VAL:HG13	41:Ha:141:VAL:HG13	1.80	0.64
65:O:11:GLU:O	65:O:72:ARG:NH1	2.31	0.64
15:Mb:70:ASN:OD1	15:Mb:71:ILE:N	2.31	0.64
18:Qb:6:SER:N	18:Qb:96:TYR:OH	2.29	0.64
39:Cy:291:ASN:ND2	78:1b:1350:A:OP1	2.30	0.64
43:Gy:149:LYS:NZ	43:Gy:201:THR:O	2.21	0.64
62:ay:74:ASN:OD1	78:1b:705:A:N6	2.29	0.64
1:a:1241:G:N3	4:q:79:HIS:NE2	2.46	0.64
78:Aa:1404:G:N2	78:Aa:1407:A:OP2	2.23	0.64
45:La:180:GLU:OE2	45:La:184:LYS:NZ	2.30	0.64
1:2b:486:G:O6	1:2b:502:U:O4	2.16	0.64
1:2b:1427:A:O2'	1:2b:1428:G:OP2	2.09	0.64
25:Xb:48:HIS:CD2	25:Xb:105:ALA:HB2	2.33	0.64
42:Fy:197:GLN:OE1	42:Fy:197:GLN:N	2.30	0.64
51:Py:26:PHE:O	51:Py:29:THR:OG1	2.16	0.64
60:Yy:58:VAL:O	60:Yy:65:GLY:N	2.30	0.64
16:o:101:HIS:NE2	16:o:108:ASP:OD2	2.31	0.64
39:Fa:138:ARG:NH2	39:Fa:240:PRO:O	2.30	0.64
41:Ha:76:LEU:N	41:Ha:138:GLN:OE1	2.30	0.64
42:Ia:187:GLU:O	42:Ia:190:THR:O	2.16	0.64
1:2b:592:A:OP1	12:Jb:39:LYS:NZ	2.23	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:607:G:O2'	5:Cb:201:ASN:ND2	2.31	0.64
34:cb:19:THR:HG22	34:cb:20:GLY:H	1.63	0.64
36:3b:103:G:OP2	36:3b:105:A:O2'	2.15	0.64
37:Ay:200:ARG:NE	78:1b:2147:A:OP1	2.27	0.64
42:Fy:88:ARG:O	42:Fy:112:ASN:N	2.31	0.64
78:1b:1564:U:N3	78:1b:1576:G:N1	2.45	0.64
1:a:285:G:N7	9:h:185:GLN:NE2	2.46	0.64
1:a:903:U:O2'	1:a:905:A:N7	2.24	0.64
7:f:9:LEU:HD22	7:f:30:ARG:HA	1.78	0.64
19:s:24:LEU:CD2	19:s:34:LEU:HD22	2.28	0.64
78:Aa:1517:G:OP1	73:W:41:ARG:NH2	2.31	0.64
1:2b:1564:U:OP1	21:Tb:38:LYS:NZ	2.30	0.64
53:Ry:7:GLN:OE1	53:Ry:7:GLN:N	2.30	0.64
1:a:259:U:O4'	11:j:178:ARG:NH2	2.31	0.64
6:e:17:PHE:CZ	6:e:21:LEU:HD11	2.33	0.64
29:2:16:ALA:O	29:2:29:ARG:NH1	2.31	0.64
78:Aa:305:U:O2	78:Aa:2784:G:N2	2.31	0.64
78:Aa:376:G:O2'	78:Aa:401:U:O4	2.10	0.64
78:Aa:677:A:N7	78:Aa:785:G:O2'	2.23	0.64
36:Ca:39:G:H21	36:Ca:104:A:H62	1.44	0.64
53:C:68:GLN:OE1	53:C:71:ARG:NH1	2.31	0.64
56:F:75:TYR:CE1	56:F:79:LEU:HD11	2.32	0.64
70:T:33:ALA:O	70:T:38:LYS:NZ	2.29	0.64
1:2b:65:A:H2	1:2b:84:A:H62	1.47	0.63
1:2b:230:C:O2'	1:2b:231:U:O4'	2.08	0.63
27:Zb:65:LEU:HD11	27:Zb:80:LEU:HD21	1.80	0.63
50:Oy:161[A]:LYS:NZ	78:1b:3182:G:O3'	2.30	0.63
54:Sy:43:TYR:HH	54:Sy:122:HIS:HE2	1.45	0.63
74:mb:114:LYS:NZ	78:1b:3107:U:OP1	2.31	0.63
78:1b:242:C:O2'	78:1b:243:G:O5'	2.15	0.63
78:1b:1572:U:O2'	78:1b:1573:G:O4'	2.09	0.63
1:a:326:G:OP1	14:m:57:LYS:NZ	2.30	0.63
1:a:1766:A:N1	28:1:80:HIS:ND1	2.45	0.63
11:j:11:ARG:NH1	11:j:15:GLY:O	2.31	0.63
78:Aa:1063:G:N2	78:Aa:1097:G:HO2'	1.96	0.63
78:Aa:1246:G:O2'	78:Aa:1264:G:OP2	2.10	0.63
78:Aa:1559:A:H61	78:Aa:1581:C:H42	1.45	0.63
40:Ga:173:VAL:O	40:Ga:175:HIS:ND1	2.31	0.63
57:G:85:TRP:CE2	57:G:93:LEU:HD21	2.32	0.63
7:Eb:180:LEU:N	7:Eb:229:GLY:O	2.32	0.63
18:Qb:64:ASP:N	18:Qb:64:ASP:OD1	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:3b:148:G:O6	78:1b:9:U:O4	2.16	0.63
57:Vy:15:LEU:HD23	57:Vy:53:SER:HB3	1.79	0.63
57:Vy:80:ARG:NE	57:Vy:97:ASP:OD2	2.31	0.63
78:1b:835:G:O2'	78:1b:836:A:OP2	2.16	0.63
78:1b:1245:A:N6	78:1b:1272:C:O2'	2.29	0.63
78:1b:2677:G:H1	78:1b:2680:A:H62	1.45	0.63
78:1b:2794:G:O2'	78:1b:2795:U:OP2	2.09	0.63
1:a:1039:A:O2'	1:a:1040:G:O5'	2.16	0.63
2:b:109:ASN:O	2:b:112:THR:HG22	1.98	0.63
35:Bb:101:G:OP2	54:D:52:LYS:NZ	2.19	0.63
1:2b:89:G:N2	1:2b:452:A:N7	2.46	0.63
22:Ub:26:LEU:HD23	22:Ub:114:VAL:HG13	1.78	0.63
33:gb:108:SER:OG	33:gb:126:SER:OG	2.16	0.63
39:Cy:308:LYS:NZ	78:1b:594:U:O2'	2.29	0.63
49:Ny:6:TYR:O	49:Ny:10:LEU:N	2.32	0.63
55:Ty:18:ASP:OD1	55:Ty:19:PHE:N	2.31	0.63
59:Xy:29:SER:OG	59:Xy:31:THR:OG1	2.16	0.63
60:Yy:27:ARG:HA	60:Yy:30:LEU:HD12	1.79	0.63
1:a:850:A:HO2'	1:a:851:U:P	2.21	0.63
1:a:960:U:O2'	16:o:48:SER:O	2.17	0.63
1:a:1229:G:N2	1:a:1256:A:C8	2.64	0.63
1:a:1553:G:H3'	4:q:47:ARG:NH2	2.14	0.63
15:n:91:VAL:HG11	15:n:97:LEU:HD12	1.80	0.63
78:Aa:962:A:N1	78:Aa:2814:G:O2'	2.31	0.63
78:Aa:1804:A:OP1	68:R:70:LYS:NZ	2.31	0.63
78:Aa:2356:A:H61	78:Aa:2983:C:N4	1.97	0.63
37:Da:183:GLY:O	37:Da:187:HIS:ND1	2.30	0.63
42:Ia:232:ARG:NH1	42:Ia:239:LEU:HD12	2.14	0.63
70:T:70:ARG:HG2	70:T:87:VAL:HG21	1.79	0.63
1:2b:1471:A:HO2'	1:2b:1472:C:C5'	2.11	0.63
29:bb:55:THR:OG1	29:bb:61:THR:N	2.31	0.63
35:4b:50:U:O3'	40:Dy:224:LYS:NZ	2.30	0.63
37:Ay:156:LYS:NZ	78:1b:2158:A:OP2	2.30	0.63
68:gy:60:ARG:NH1	78:1b:1593:A:O5'	2.31	0.63
72:kb:49:SER:OG	78:1b:1825:G:OP1	2.13	0.63
1:a:1244:A:O2'	1:a:1245:G:O5'	2.16	0.63
9:h:71:THR:HG22	9:h:72:ARG:H	1.63	0.63
78:Aa:994:G:C4	78:Aa:1053:A:N6	2.67	0.63
78:Aa:1678:G:OP1	56:F:97:SER:N	2.31	0.63
78:Aa:1953:G:N2	78:Aa:2093:A:N7	2.47	0.63
78:Aa:2244:A:O2'	37:Da:223:SER:OG	2.10	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:2607:G:OP1	37:Da:233:GLN:NE2	2.31	0.63
78:Aa:3173:G:OP2	50:Qa:101:ARG:NE	2.32	0.63
39:Fa:93:MET:N	39:Fa:93:MET:SD	2.72	0.63
54:D:130:GLU:OE2	54:D:131:LYS:NZ	2.25	0.63
69:S:102:GLU:OE1	69:S:106:LYS:NZ	2.26	0.63
1:2b:1469:A:OP1	21:Tb:91:TYR:OH	2.16	0.63
25:Xb:19:ARG:O	25:Xb:23:ARG:N	2.30	0.63
25:Xb:98:GLU:N	25:Xb:100:ASP:OD1	2.32	0.63
36:3b:70:G:O2'	36:3b:87:G:N2	2.32	0.63
52:Qy:67:ILE:O	52:Qy:70:ALA:HB3	1.98	0.63
62:ay:26:ARG:NH1	78:1b:938:C:OP2	2.32	0.63
78:1b:821:U:O2'	78:1b:912:G:OP1	2.17	0.63
78:1b:846:A:O2'	78:1b:847:A:N3	2.27	0.63
1:a:424:C:N4	1:a:429:G:N2	2.47	0.63
1:a:862:A:OP2	16:o:64:ARG:NH1	2.32	0.63
1:a:898:A:H4'	17:p:46:MET:HE3	1.80	0.63
2:b:8:ASP:O	2:b:10:THR:HG23	1.97	0.63
78:Aa:504:A:N6	78:Aa:588:G:O6	2.31	0.63
66:P:123:LYS:HA	66:P:126:LEU:HD12	1.81	0.63
21:Tb:6:VAL:O	21:Tb:9:VAL:HG12	1.98	0.63
24:Wb:116:ALA:O	24:Wb:120:HIS:N	2.32	0.63
33:gb:26:SER:OG	33:gb:75:ALA:O	2.17	0.63
68:gy:70:LYS:NZ	78:1b:1803:C:O3'	2.31	0.63
1:a:127:G:N2	1:a:178:U:O2	2.31	0.63
6:e:141:LYS:O	6:e:182:LEU:HD21	1.99	0.63
9:h:64:LYS:HB3	9:h:67:VAL:HG11	1.79	0.63
20:t:4:VAL:HG21	27:0:82:HIS:CE1	2.33	0.63
29:2:67:THR:OG1	29:2:70:LYS:O	2.07	0.63
33:7:123:ILE:HG21	33:7:169:ILE:HG21	1.79	0.63
78:Aa:382:U:O2	51:A:97:ASN:ND2	2.32	0.63
78:Aa:916:G:O2'	78:Aa:917:A:O5'	2.12	0.63
78:Aa:3060:C:O2	78:Aa:3332:U:O2'	2.15	0.63
35:Bb:46:A:O5'	40:Ga:158:ARG:NH2	2.32	0.63
36:Ca:36:G:OP1	71:U:66:TYR:OH	2.10	0.63
40:Ga:65:ILE:HD13	40:Ga:74:VAL:HA	1.81	0.63
45:La:38:LYS:HG3	45:La:41:ALA:HB2	1.81	0.63
45:La:65:LEU:HD23	45:La:159:PHE:CZ	2.33	0.63
1:2b:415:C:O2	1:2b:418:G:O6	2.16	0.63
6:Db:23:GLU:OE1	13:Kb:61:TRP:NE1	2.29	0.63
40:Dy:123:GLU:OE1	40:Dy:123:GLU:N	2.31	0.63
51:Py:108:ASP:N	51:Py:152:GLU:OE2	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:jb:45:ARG:NH2	78:1b:362:U:OP1	2.31	0.63
78:1b:1220:U:O4'	78:1b:1286:A:N6	2.32	0.63
1:a:963:A:N7	16:o:70:LYS:NZ	2.45	0.63
5:d:165:VAL:HG11	5:d:210:THR:HA	1.81	0.63
25:y:130:VAL:HG23	25:y:131:SER:H	1.64	0.63
29:2:6:ASP:OD1	29:2:9:HIS:N	2.32	0.63
78:Aa:336:A:O2'	39:Fa:48:GLN:NE2	2.32	0.63
78:Aa:1713:G:H1	78:Aa:1730:G:HO2'	1.45	0.63
37:Da:43:GLY:N	37:Da:88:ILE:O	2.32	0.63
39:Fa:33:ASP:OD1	39:Fa:33:ASP:N	2.32	0.63
39:Fa:168:ALA:O	39:Fa:172:VAL:HG23	1.99	0.63
1:2b:215:A:O2'	1:2b:216:U:OP1	2.14	0.63
1:2b:333:A:OP2	11:Ib:31:ARG:NH2	2.32	0.63
1:2b:477:A:OP2	31:eb:28:LYS:NZ	2.30	0.63
1:2b:687:G:OP1	24:Wb:118:ARG:NH1	2.31	0.63
35:4b:11:A:OP1	55:Ty:21:LYS:NZ	2.32	0.63
40:Dy:216:GLU:OE1	40:Dy:216:GLU:N	2.32	0.63
51:Py:50:GLN:O	51:Py:53:ASP:N	2.32	0.63
58:Wy:56:ARG:NH2	78:1b:3369:G:O4'	2.32	0.63
78:1b:449:U:O4	78:1b:487:U:N3	2.32	0.63
78:1b:1198:C:OP2	78:1b:1199:C:O2'	2.11	0.63
1:a:567:A:O2'	25:y:90:ASP:OD2	2.12	0.63
1:a:867:G:O6	1:a:962:C:N4	2.32	0.63
1:a:1198:G:O3'	30:4:41:GLN:NE2	2.30	0.63
5:d:82:ASN:OD1	5:d:83:ILE:N	2.32	0.63
11:j:70:GLU:OE1	11:j:70:GLU:N	2.31	0.63
78:Aa:43:A:C5	78:Aa:2802:A:N1	2.66	0.63
78:Aa:189:G:OP2	60:J:40:ARG:NH1	2.32	0.63
78:Aa:1258:U:O2'	78:Aa:1260:A:N7	2.25	0.63
78:Aa:1643:A:OP2	68:R:68:THR:HG21	1.96	0.63
38:Ea:11:HIS:ND1	38:Ea:234:GLY:O	2.32	0.63
39:Fa:299:ILE:HG22	39:Fa:300:ARG:O	1.98	0.63
1:2b:805:U:O2'	24:Wb:78:ARG:NH1	2.31	0.63
1:2b:1696:G:N1	1:2b:1706:C:N3	2.47	0.63
7:Eb:112:HIS:HE2	7:Eb:237:SER:HG	1.45	0.63
12:Jb:66:ASP:OD1	12:Jb:68:LYS:N	2.30	0.63
25:Xb:57:LEU:HD11	25:Xb:73:ARG:HG2	1.81	0.63
41:Ey:94:GLU:OE1	41:Ey:94:GLU:N	2.32	0.63
78:1b:447:U:O4	78:1b:490:C:O2'	2.17	0.63
78:1b:1238:C:O2	78:1b:1250:G:N2	2.20	0.63
78:1b:3048:A:O2'	78:1b:3090:U:O4	2.16	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1445:G:O6	32:6:89:LYS:NZ	2.23	0.63
1:a:1472:C:N3	1:a:1534:G:C2	2.67	0.63
11:j:169:ILE:HG22	11:j:171:SER:H	1.62	0.63
78:Aa:1073:U:O2'	63:M:50:THR:N	2.32	0.63
78:Aa:1863:G:N1	78:Aa:1866:C:OP2	2.31	0.63
78:Aa:2425:G:OP1	49:Pa:72:LYS:NZ	2.25	0.63
39:Fa:204:GLY:O	39:Fa:246:ARG:NH2	2.31	0.63
45:La:115:MET:O	45:La:118:ALA:HB2	1.98	0.63
50:Qa:13:GLY:O	50:Qa:125:ARG:N	2.30	0.63
1:2b:747:C:O2'	24:Wb:124:LYS:NZ	2.32	0.62
11:Ib:10:LYS:O	11:Ib:18:ARG:NH2	2.31	0.62
65:dy:31:ARG:NH1	78:1b:1884:A:OP2	2.32	0.62
1:a:328:A:N3	11:j:86:SER:OG	2.30	0.62
1:a:787:G:OP1	7:f:255:ARG:NH2	2.31	0.62
1:a:1065:A:O2'	3:c:146:GLN:NE2	2.31	0.62
3:c:210:ILE:O	3:c:211:HIS:ND1	2.32	0.62
78:Aa:1627:U:C4	78:Aa:1817:G:O6	2.52	0.62
78:Aa:3021:A:N6	78:Aa:3033:A:OP2	2.25	0.62
36:Ca:95:G:OP1	71:U:76:ASN:ND2	2.32	0.62
46:Ma:97:SER:N	46:Ma:101:ASN:O	2.32	0.62
1:2b:59:C:O2'	1:2b:60:U:O5'	2.17	0.62
1:2b:579:A:N6	1:2b:1439:C:O4'	2.31	0.62
36:3b:151:C:H5	59:Xy:24:LEU:HD11	1.64	0.62
38:By:117:ARG:NH1	78:1b:3313:U:OP1	2.31	0.62
39:Cy:73:ARG:NH1	78:1b:2814:G:OP1	2.25	0.62
40:Dy:17:GLN:OE1	55:Ty:22:HIS:N	2.31	0.62
55:Ty:87:LYS:NZ	78:1b:2723:U:OP1	2.22	0.62
78:1b:148:G:O2'	78:1b:149:U:OP2	2.16	0.62
78:1b:1349:G:O2'	78:1b:1350:A:O4'	2.16	0.62
1:a:139:C:O2'	1:a:140:A:OP2	2.15	0.62
1:a:1542:G:O2'	1:a:1543:A:OP2	2.17	0.62
13:l:3:MET:HE1	13:l:45:ALA:HA	1.80	0.62
78:Aa:1631:C:OP2	61:K:48:ARG:NH2	2.32	0.62
78:Aa:3194:C:N3	78:Aa:3197:G:N1	2.46	0.62
1:2b:214:G:N1	1:2b:250:C:OP2	2.30	0.62
1:2b:1742:U:O2'	1:2b:1743:U:OP1	2.17	0.62
3:Ba:31:ASP:OD1	3:Ba:32:ILE:N	2.32	0.62
5:Cb:174:ARG:O	12:Jb:53:ARG:NH1	2.31	0.62
15:Mb:91:VAL:HG13	15:Mb:92:ALA:O	1.99	0.62
18:Qb:31:VAL:N	18:Qb:34:SER:O	2.31	0.62
23:Vb:86:SER:OG	29:bb:9:HIS:O	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:gb:6:VAL:O	33:gb:316:MET:N	2.32	0.62
42:Fy:24:GLU:OE1	42:Fy:26:VAL:HG22	1.98	0.62
78:1b:1565:G:C2	78:1b:1575:A:C6	2.87	0.62
1:a:591:A:OP2	31:5:43:ARG:NH2	2.32	0.62
1:a:1218:G:O4'	1:a:1444:A:N6	2.32	0.62
14:m:123:VAL:CG2	14:m:142:VAL:HG13	2.29	0.62
33:7:273:ASP:OD1	33:7:275:ARG:NH1	2.32	0.62
78:Aa:879:U:HO2'	78:Aa:880:G:P	2.21	0.62
78:Aa:3146:G:O3'	38:Ea:100:ARG:NH1	2.33	0.62
78:Aa:3158:G:N1	78:Aa:3292:A:C2	2.67	0.62
7:Eb:163:ASP:OD2	7:Eb:166:SER:N	2.31	0.62
15:Mb:103:LEU:HD11	15:Mb:116:VAL:H	1.65	0.62
41:Ey:2:SER:N	78:1b:1385:C:HO2'	1.97	0.62
44:Hy:23:ARG:NE	78:1b:3187:A:OP1	2.33	0.62
78:1b:1244:A:O2'	78:1b:1247:U:OP1	2.18	0.62
1:a:131:C:O2'	1:a:132:U:OP1	2.17	0.62
1:a:1597:A:N1	30:4:13:ARG:N	2.46	0.62
1:a:1642:G:O2'	1:a:1781:A:O3'	2.17	0.62
6:e:90:ARG:HD3	6:e:91:VAL:HG22	1.81	0.62
41:Ha:82:ARG:NH2	67:Q:105:SER:O	2.32	0.62
1:2b:1360:A:HO2'	21:Tb:2:PRO:N	1.97	0.62
14:Lb:99:ARG:NH1	25:Xb:7:ARG:O	2.32	0.62
16:Nb:34:ILE:O	16:Nb:37:ILE:N	2.31	0.62
40:Dy:93:THR:O	40:Dy:158:ARG:NE	2.32	0.62
44:Hy:173:ARG:NH2	78:1b:2899:C:N3	2.47	0.62
55:Ty:23:GLY:N	78:1b:2701:U:OP1	2.32	0.62
73:lb:24:PRO:HD2	73:lb:27:ILE:HD12	1.80	0.62
78:1b:439:C:O2'	78:1b:494:G:N2	2.33	0.62
78:1b:2656:A:O2'	78:1b:2658:G:N7	2.25	0.62
1:a:929:A:OP2	1:a:931:C:N4	2.33	0.62
1:a:1548:G:C2	1:a:1564:U:C2	2.87	0.62
9:h:1:MET:HE3	9:h:24:ILE:HG21	1.80	0.62
12:k:109:LEU:O	12:k:113:VAL:HG23	1.99	0.62
16:o:83:GLU:HG2	16:o:84:ILE:HG23	1.79	0.62
21:u:57:ARG:O	21:u:61:VAL:HG23	1.99	0.62
54:D:73:LYS:NZ	54:D:97:VAL:O	2.16	0.62
76:Z:7:THR:OG1	76:Z:22:GLN:NE2	2.32	0.62
26:Yb:15:ASN:O	26:Yb:19:ALA:N	2.32	0.62
30:db:10:HIS:O	30:db:12:ARG:NH2	2.32	0.62
39:Cy:290:ILE:HA	39:Cy:295:ILE:HD13	1.80	0.62
52:Qy:48:VAL:O	52:Qy:52:LEU:N	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:gy:24:LYS:NZ	78:1b:1669:C:OP1	2.28	0.62
1:a:1550:A:N7	4:q:40:ARG:NH2	2.46	0.62
24:x:36:LYS:O	24:x:40:VAL:HG23	1.98	0.62
78:Aa:362:U:O2'	78:Aa:928:C:O2'	2.11	0.62
78:Aa:1010:G:OP1	45:La:39:LYS:NZ	2.20	0.62
78:Aa:1307:G:O2'	78:Aa:1308:A:OP2	2.17	0.62
47:Na:140:SER:OG	47:Na:141:ALA:N	2.32	0.62
56:F:35:LYS:HA	56:F:38:ILE:HD12	1.80	0.62
1:2b:44:U:OP2	1:2b:437:A:N6	2.33	0.62
1:2b:972:G:N3	78:1b:847:A:N1	2.47	0.62
25:Xb:58:GLY:N	31:eb:4:VAL:O	2.32	0.62
51:Py:131:ARG:NH2	78:1b:880:G:OP1	2.33	0.62
66:ey:2:ALA:N	78:1b:439:C:OP1	2.33	0.62
69:hb:17:LEU:O	69:hb:21:LEU:N	2.33	0.62
7:f:212:ASP:O	7:f:215:ASP:N	2.31	0.62
9:h:28:PHE:O	9:h:30:LYS:NZ	2.32	0.62
78:Aa:361:A:N1	78:Aa:927:C:O2'	2.31	0.62
78:Aa:907:G:OP1	78:Aa:909:G:O2'	2.18	0.62
78:Aa:1093:A:O5'	55:E:116:ARG:NH1	2.32	0.62
78:Aa:2588:U:OP1	43:Ja:241:LYS:NZ	2.25	0.62
78:Aa:3007:U:OP1	50:Qa:74:ARG:N	2.33	0.62
57:G:68:GLU:O	57:G:72:LYS:NZ	2.33	0.62
1:2b:9:U:N3	1:2b:12:U:OP2	2.33	0.62
1:2b:629:U:C5'	78:1b:846:A:H8	2.12	0.62
1:2b:1229:G:N1	15:Mb:47:GLU:OE1	2.33	0.62
6:Db:209:ILE:HD12	19:Rb:38:ILE:C	2.24	0.62
15:Mb:88:LEU:HD23	15:Mb:89:ILE:N	2.15	0.62
42:Fy:196:LYS:NZ	78:1b:1101:G:OP2	2.28	0.62
49:Ny:125:SER:OG	49:Ny:126:THR:N	2.32	0.62
60:Yy:121:ARG:NH2	78:1b:184:U:O3'	2.30	0.62
67:fy:85:PHE:CE2	67:fy:89:LEU:HD21	2.35	0.62
68:gy:98:GLN:O	68:gy:102:LYS:N	2.28	0.62
71:jb:3:LYS:O	71:jb:7:SER:OG	2.10	0.62
78:1b:1253:U:N3	78:1b:1264:G:OP1	2.29	0.62
78:1b:1258:U:N3	78:1b:1261:G:OP2	2.33	0.62
6:e:133:GLY:C	6:e:157:LEU:HD21	2.25	0.62
11:j:12:SER:OG	11:j:14:THR:OG1	2.17	0.62
21:u:37:VAL:HG12	21:u:39:THR:H	1.63	0.62
24:x:50:PHE:HB3	24:x:63:VAL:HG22	1.80	0.62
27:0:47:TYR:CZ	27:0:51:LEU:HD11	2.34	0.62
27:0:83:LEU:HD22	27:0:88:ILE:HG21	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:290:G:O2'	49:Pa:70:ASN:OD1	2.17	0.62
46:Ma:139:THR:O	46:Ma:145:LYS:NZ	2.25	0.62
50:Qa:113:ASP:OD1	50:Qa:114:LYS:N	2.33	0.62
57:G:80:ARG:NE	57:G:97:ASP:OD2	2.28	0.62
1:2b:630:A:N6	78:1b:846:A:N6	2.36	0.62
1:2b:1555:A:OP2	4:Pb:47:ARG:NH2	2.31	0.62
1:a:932:U:O2	28:1:32:LYS:NZ	2.28	0.62
1:a:1310:U:N3	1:a:1316:G:N1	2.47	0.62
78:Aa:421:G:N2	78:Aa:2383:C:O2	2.32	0.62
78:Aa:2854:U:OP2	45:La:3:ARG:NH2	2.33	0.62
78:Aa:3334:U:O2'	78:Aa:3368:U:O2	2.12	0.62
37:Da:146:THR:OG1	37:Da:160:SER:OG	1.99	0.62
42:Ia:151:ARG:NH1	42:Ia:244:ASN:O	2.31	0.62
76:Z:77:CYS:O	76:Z:79:THR:HG23	2.00	0.62
1:2b:1365:C:OP1	18:Qb:66:ARG:NH1	2.32	0.62
1:2b:1521:G:O6	21:Tb:68:ARG:NH2	2.33	0.62
3:Ba:34:ALA:HB3	3:Ba:41:ARG:HA	1.82	0.62
3:Ba:180:THR:OG1	3:Ba:181:LEU:N	2.29	0.62
5:Cb:195:ASP:OD1	5:Cb:195:ASP:N	2.31	0.62
18:Qb:14:LYS:O	18:Qb:123:ARG:NH2	2.32	0.62
21:Tb:115:GLU:OE2	21:Tb:123:ARG:NH1	2.33	0.62
24:Wb:87:GLU:OE1	24:Wb:87:GLU:N	2.29	0.62
50:Oy:134[A]:LYS:HZ3	78:1b:3124:G:P	2.23	0.62
1:a:1310:U:N3	1:a:1316:G:C6	2.67	0.62
5:d:60:SER:OG	23:w:25:LYS:O	2.13	0.62
22:v:70:THR:HG22	22:v:71:PRO:O	2.00	0.62
29:2:56:CYS:SG	29:2:57:GLU:N	2.72	0.62
78:Aa:220:G:C6	78:Aa:1389:G:N1	2.67	0.62
1:2b:65:A:O2'	1:2b:66:U:O5'	2.15	0.61
4:Pb:22:LEU:HD13	4:Pb:25:LEU:HD11	1.82	0.61
40:Dy:217:GLU:O	40:Dy:221:GLU:N	2.31	0.61
41:Ey:110:LYS:NZ	41:Ey:111:LEU:O	2.29	0.61
57:Vy:127:PRO:O	57:Vy:130:ALA:N	2.33	0.61
78:1b:1724:U:O2'	78:1b:1725:C:OP2	2.13	0.61
1:a:976:G:N2	1:a:1024:U:OP2	2.32	0.61
3:c:72:ASP:OD1	17:p:114:ARG:NH1	2.33	0.61
14:m:121:ASP:O	14:m:123:VAL:HG23	2.00	0.61
25:y:75:GLN:NE2	25:y:80:GLY:O	2.33	0.61
78:Aa:3269:U:N3	41:Ha:129:GLU:O	2.30	0.61
38:Ea:341:SER:OG	38:Ea:342:LEU:N	2.30	0.61
39:Fa:329:PRO:O	42:Ia:48:ASN:ND2	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:189:C:N3	1:2b:196:G:N1	2.43	0.61
39:Cy:31:ARG:CB	39:Cy:34:ILE:HD12	2.30	0.61
46:Jy:10:ARG:NH2	46:Jy:151:SER:O	2.32	0.61
46:Jy:162:TRP:O	46:Jy:165:GLN:NE2	2.32	0.61
65:dy:55:LEU:O	65:dy:58:ALA:N	2.33	0.61
1:a:987:G:N2	1:a:1013:A:OP1	2.33	0.61
26:z:8:ARG:NH1	26:z:26:ASP:OD2	2.32	0.61
33:7:223:TRP:CZ3	33:7:230:ALA:HB2	2.34	0.61
33:7:240:VAL:HA	33:7:256:THR:HG22	1.82	0.61
78:Aa:26:A:N3	78:Aa:328:U:O2'	2.28	0.61
78:Aa:509:U:C2	78:Aa:583:G:N1	2.68	0.61
78:Aa:677:A:O5'	78:Aa:786:A:N6	2.34	0.61
78:Aa:2524:A:N1	43:Ja:44:ARG:NH1	2.47	0.61
40:Ga:59:ASP:OD1	40:Ga:80:SER:OG	2.14	0.61
1:2b:302:U:OP1	11:Ib:22:ARG:NH2	2.33	0.61
1:2b:1770:U:O4'	1:2b:1794:A:N6	2.32	0.61
7:Eb:11:ARG:NH2	7:Eb:21:ASP:OD1	2.31	0.61
33:gb:154:VAL:O	33:gb:155:ARG:NH1	2.32	0.61
38:By:109:HIS:C	38:By:110:LEU:HD22	2.25	0.61
51:Py:115:SER:OG	51:Py:116:HIS:N	2.33	0.61
1:a:270:C:N4	9:h:182:GLN:OE1	2.32	0.61
1:a:960:U:OP2	16:o:14:SER:OG	2.07	0.61
2:b:187:ALA:O	2:b:188:LEU:HD22	1.99	0.61
13:l:71:GLU:N	13:l:71:GLU:OE2	2.33	0.61
22:v:70:THR:HG21	22:v:74:GLU:O	1.99	0.61
33:7:262:VAL:O	33:7:271:VAL:N	2.34	0.61
78:Aa:2244:A:HO2'	37:Da:223:SER:HG	1.34	0.61
78:Aa:2281:A:N3	78:Aa:2974:U:O2'	2.31	0.61
78:Aa:3355:U:O2'	78:Aa:3357:U:OP1	2.17	0.61
43:Ja:111:LYS:NZ	43:Ja:126:SER:OG	2.21	0.61
1:2b:1:U:O2	12:Jb:50:SER:OG	2.16	0.61
1:2b:487:G:O6	1:2b:501:U:C4	2.53	0.61
1:2b:1411:A:OP1	18:Qb:114:ARG:NH2	2.32	0.61
25:Xb:109:ARG:NH1	25:Xb:113:ALA:O	2.33	0.61
76:ob:45:ARG:NH2	78:1b:279:U:O4	2.31	0.61
78:1b:2547:A:O2'	78:1b:2548:C:OP1	2.17	0.61
1:a:130:C:O2'	1:a:131:C:OP1	2.19	0.61
1:a:1597:A:C5	30:4:13:ARG:C	2.78	0.61
8:g:100:ASN:O	8:g:102:ARG:N	2.33	0.61
24:x:50:PHE:CB	24:x:63:VAL:HG22	2.31	0.61
68:R:97:GLU:O	68:R:101:VAL:HG23	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4b:76:A:O2'	54:Sy:50:LYS:NZ	2.29	0.61
42:Fy:141:TYR:OH	78:1b:578:A:N6	2.34	0.61
47:Ly:129:ASN:OD1	47:Ly:130:GLY:N	2.34	0.61
57:Vy:23:MET:SD	57:Vy:36:ILE:HD11	2.39	0.61
78:1b:436:A:OP2	78:1b:621:A:N6	2.34	0.61
1:a:207:U:O2	11:j:178:ARG:NH1	2.31	0.61
1:a:657:U:O2	1:a:677:G:C2	2.54	0.61
1:a:1452:U:O2'	4:q:79:HIS:ND1	2.23	0.61
6:e:5:ILE:HG22	6:e:6:SER:O	2.01	0.61
8:g:58:LEU:HD21	8:g:167:ARG:NH1	2.14	0.61
78:Aa:63:A:N3	78:Aa:78:U:O2'	2.31	0.61
78:Aa:826:G:H21	78:Aa:1589:A:N6	1.97	0.61
78:Aa:2600:C:OP1	49:Pa:93:LYS:NZ	2.33	0.61
48:Oa:77:ARG:O	48:Oa:81:VAL:HG23	2.01	0.61
49:Pa:73:ARG:O	49:Pa:75:VAL:N	2.33	0.61
73:W:37:TYR:HE1	73:W:39:ALA:HB2	1.66	0.61
1:2b:1516:A:OP2	22:Ub:61:LYS:NZ	2.21	0.61
6:Db:32:GLU:OE1	6:Db:32:GLU:N	2.34	0.61
12:Jb:134:ILE:O	12:Jb:140:ILE:HG23	2.01	0.61
37:Ay:8:GLN:NE2	37:Ay:231:SER:OG	2.33	0.61
1:a:1305:U:O4'	1:a:1314:U:N3	2.32	0.61
8:g:94:THR:HG22	8:g:114:ILE:HG13	1.82	0.61
78:Aa:2762:A:N6	78:Aa:2795:U:N3	2.49	0.61
64:N:100:ILE:O	64:N:103:THR:OG1	2.17	0.61
1:2b:1371:A:O2'	1:2b:1373:C:OP1	2.17	0.61
39:Cy:280:ILE:HG22	52:Qy:104:LEU:O	1.99	0.61
47:Ly:108:ILE:O	47:Ly:112:ASN:ND2	2.33	0.61
49:Ny:190:THR:O	49:Ny:194:GLN:NE2	2.33	0.61
53:Ry:74:ARG:C	53:Ry:76:SER:HG	2.04	0.61
55:Ty:66:ASN:OD1	55:Ty:67:VAL:N	2.32	0.61
1:a:400:A:OP1	11:j:25:ARG:NH1	2.34	0.61
1:a:501:U:O2'	1:a:502:U:O5'	2.18	0.61
3:c:58:SER:OG	3:c:62:LYS:NZ	2.32	0.61
5:d:156:THR:HG22	24:x:96:ALA:HB2	1.83	0.61
21:u:81:GLY:N	21:u:96:ALA:HB2	2.15	0.61
78:Aa:595:G:OP1	42:Ia:33:ARG:NH2	2.33	0.61
78:Aa:1730:G:O2'	64:N:28:LYS:NZ	2.33	0.61
78:Aa:3023:U:OP2	78:Aa:3031:G:N2	2.32	0.61
44:Ka:93:VAL:O	44:Ka:99:ILE:HD11	2.01	0.61
57:G:28:ASN:OD1	57:G:113:ALA:N	2.34	0.61
1:2b:1696:G:N2	1:2b:1706:C:C2	2.68	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:Tb:111:ILE:HG23	21:Tb:113:ILE:H	1.66	0.61
33:gb:67:ILE:O	33:gb:84:SER:OG	2.14	0.61
48:My:60:LEU:HD13	54:Sy:152:LEU:HD11	1.82	0.61
61:Zy:67:LYS:O	61:Zy:68:ILE:HD13	2.01	0.61
3:c:34:ALA:HB3	3:c:41:ARG:HA	1.83	0.61
78:Aa:351:A:N6	73:W:37:TYR:O	2.34	0.61
78:Aa:2675:C:OP2	78:Aa:2676:A:O2'	2.18	0.61
36:Ca:100:U:O3'	59:I:89:LYS:NZ	2.34	0.61
50:Qa:3:VAL:HG13	50:Qa:4:GLU:OE1	2.01	0.61
52:B:36:LEU:O	52:B:40:THR:OG1	2.13	0.61
77:aa:59:CYS:SG	77:aa:60:CYS:N	2.74	0.61
1:2b:567:A:H5''	25:Xb:70:LYS:HZ1	1.66	0.61
1:2b:1382:A:OP1	22:Ub:60:THR:HG22	2.01	0.61
2:Ab:2:SER:OG	2:Ab:3:LEU:N	2.33	0.61
51:Py:172:GLN:OE1	78:1b:3276:G:N2	2.33	0.61
52:Qy:173:GLU:O	78:1b:780:A:N6	2.33	0.61
1:a:68:A:O2'	1:a:69:G:OP2	2.18	0.61
1:a:772:G:N2	1:a:774:A:O2'	2.30	0.61
9:h:49:VAL:HG23	58:H:74:LYS:O	2.01	0.61
24:x:30:SER:OG	24:x:58:SER:O	2.18	0.61
26:z:54:ALA:HB2	26:z:79:VAL:CG2	2.31	0.61
37:Da:211:HIS:CD2	37:Da:219:ILE:HG23	2.35	0.61
1:2b:780:A:N1	26:Yb:10:ARG:NH2	2.49	0.61
1:2b:1565:C:OP1	20:Sb:41:ARG:NH1	2.33	0.61
8:Fb:43:PHE:CZ	8:Fb:90:ILE:HG21	2.36	0.61
20:Sb:42:TYR:OH	20:Sb:73:MET:O	2.18	0.61
38:By:254:ALA:O	78:1b:2394:G:O2'	2.19	0.61
38:By:316:GLU:OE2	38:By:316:GLU:N	2.34	0.61
53:Ry:109:TYR:HB3	53:Ry:115:ILE:HG22	1.83	0.61
61:Zy:67:LYS:NZ	78:1b:1630:U:OP1	2.18	0.61
78:1b:1064:A:C6	78:1b:1092:C:C2	2.89	0.61
1:a:632:U:O2'	1:a:1103:U:OP1	2.17	0.61
1:a:1523:G:N2	1:a:1523:G:OP2	2.24	0.61
1:a:1796:C:O3'	28:l:95:ARG:NH1	2.34	0.61
14:m:82:ARG:O	14:m:110:HIS:ND1	2.32	0.61
4:q:91:GLY:N	4:q:107:ILE:O	2.33	0.61
20:t:37:GLY:O	20:t:99:HIS:NE2	2.34	0.61
78:Aa:1911:A:O4'	78:Aa:2333:C:O2'	2.17	0.61
78:Aa:2164:A:OP1	37:Da:8:GLN:NE2	2.33	0.61
78:Aa:3335:A:OP2	78:Aa:3368:U:N3	2.33	0.61
38:Ea:81:THR:HG22	38:Ea:321:PHE:HA	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:D:7:TYR:HB3	54:D:61:ILE:HD11	1.82	0.61
62:L:97:GLU:OE1	62:L:97:GLU:N	2.34	0.61
67:Q:19:SER:OG	67:Q:20:LYS:N	2.33	0.61
72:V:46:ARG:NE	72:V:47:GLY:O	2.34	0.61
7:Eb:182:TYR:N	7:Eb:226:PHE:O	2.32	0.60
9:Gb:69:LEU:N	9:Gb:101:ILE:HD12	2.16	0.60
12:Jb:159:ALA:O	12:Jb:162:SER:OG	2.18	0.60
36:3b:95:G:O2'	71:jb:81:GLY:O	2.12	0.60
50:Oy:74[A]:ARG:NH1	78:1b:3008:A:OP2	2.34	0.60
54:Sy:25:PHE:O	54:Sy:41:TYR:OH	2.18	0.60
55:Ty:17:ARG:NH2	55:Ty:23:GLY:O	2.34	0.60
64:cy:9:SER:OG	64:cy:10:ILE:HD12	2.01	0.60
65:dy:13:THR:OG1	65:dy:72:ARG:NH1	2.35	0.60
78:1b:443:G:N7	78:1b:445:G:N2	2.48	0.60
79:6b:17:U:O2'	79:6b:18:G:O5'	2.17	0.60
10:i:79:ARG:NH2	10:i:164:TYR:OH	2.34	0.60
19:s:99:VAL:HG12	19:s:118:PRO:HB2	1.82	0.60
27:0:44:GLN:O	27:0:44:GLN:NE2	2.33	0.60
78:Aa:3211:C:OP2	48:Oa:109:ARG:NH1	2.34	0.60
38:Ea:21:ARG:NH1	38:Ea:269:GLN:OE1	2.34	0.60
38:Ea:187:SER:O	38:Ea:190:GLU:N	2.33	0.60
38:Ea:316:GLU:OE1	38:Ea:316:GLU:N	2.35	0.60
44:Ka:47:LYS:NZ	48:Oa:5:SER:O	2.22	0.60
66:P:113:LYS:O	66:P:113:LYS:NZ	2.33	0.60
1:2b:522:U:OP1	26:Yb:37:LYS:NZ	2.34	0.60
1:2b:867:G:OP2	16:Nb:3:ARG:NH1	2.35	0.60
8:Fb:169:ASN:HA	8:Fb:172:ILE:HD12	1.83	0.60
10:Hb:69:GLY:O	10:Hb:73:VAL:HG22	2.01	0.60
21:Tb:105:LEU:O	21:Tb:109:GLU:N	2.35	0.60
25:Xb:88:PRO:O	25:Xb:89:ASN:ND2	2.32	0.60
50:Oy:84[A]:LEU:O	50:Oy:87[A]:MET:N	2.32	0.60
53:Ry:72:GLU:O	53:Ry:74:ARG:NH2	2.33	0.60
78:1b:3344:A:N6	78:1b:3361:G:O2'	2.34	0.60
1:a:633:U:OP2	25:y:10:ASN:ND2	2.34	0.60
1:a:647:G:H22	1:a:687:G:H22	1.49	0.60
5:d:140:ARG:NH1	23:w:10:GLU:OE1	2.33	0.60
25:y:58:GLY:O	31:5:6:GLY:N	2.34	0.60
33:7:90:ARG:NH1	33:7:99:THR:OG1	2.35	0.60
78:Aa:1906:G:N2	78:Aa:2334:U:O2	2.35	0.60
46:Ma:82:ARG:O	46:Ma:86:VAL:HG23	2.01	0.60
1:2b:765:G:H21	1:2b:765:G:P	2.24	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:1227:A:N6	1:2b:1256:A:O2'	2.34	0.60
11:Ib:11:ARG:O	14:Lb:133:LYS:NZ	2.32	0.60
19:Rb:89:SER:O	19:Rb:89:SER:OG	2.19	0.60
40:Dy:261:THR:HG1	40:Dy:264:GLN:H	1.47	0.60
44:Hy:90:MET:HE3	44:Hy:181:VAL:HG23	1.83	0.60
45:Iy:146:ASP:OD1	45:Iy:146:ASP:N	2.32	0.60
71:jb:7:SER:O	71:jb:10:LYS:N	2.34	0.60
78:1b:1015:U:O2'	78:1b:1017:C:OP2	2.12	0.60
78:1b:1657:C:N4	78:1b:1798:A:OP2	2.34	0.60
1:a:991:G:N1	1:a:1012:U:OP2	2.32	0.60
1:a:1597:A:C2	30:4:14:TYR:CA	2.84	0.60
3:c:180:THR:OG1	3:c:183:GLN:OE1	2.04	0.60
16:o:5:HIS:HB3	16:o:117:LEU:HD13	1.82	0.60
30:4:10:HIS:CG	30:4:11:PRO:HD2	2.36	0.60
78:Aa:43:A:N6	78:Aa:2802:A:N3	2.49	0.60
78:Aa:3173:G:C2	67:Q:96:ALA:HB2	2.36	0.60
39:Fa:187:LEU:HD23	39:Fa:188:ARG:N	2.16	0.60
55:E:57:TYR:CD2	55:E:89:LEU:HD21	2.35	0.60
60:J:57:LEU:HD23	60:J:58:VAL:N	2.17	0.60
65:O:72:ARG:O	65:O:73:LEU:HD23	2.00	0.60
6:Db:91:VAL:HG22	6:Db:92:GLN:O	2.02	0.60
28:ab:32:LYS:O	28:ab:37:LYS:NZ	2.34	0.60
36:3b:11:C:O2'	51:Py:3:ARG:NH1	2.34	0.60
55:Ty:94:GLU:OE1	55:Ty:94:GLU:N	2.32	0.60
78:1b:594:U:P	78:1b:609:G:H22	2.25	0.60
78:1b:2525:G:HO2'	78:1b:2526:C:P	2.22	0.60
1:a:781:U:O2'	1:a:782:U:O5'	2.18	0.60
1:a:1549:C:OP1	4:q:42:ARG:NH1	2.34	0.60
1:a:1683:C:N4	1:a:1719:A:N6	2.49	0.60
5:d:44:LEU:HD21	5:d:247:ALA:HB2	1.82	0.60
78:Aa:2260:U:O2'	78:Aa:2261:G:OP1	2.18	0.60
38:Ea:371:GLN:N	38:Ea:375:GLU:OE2	2.33	0.60
1:2b:477:A:O3'	31:eb:33:ARG:NH2	2.35	0.60
1:2b:505:A:O2'	1:2b:507:U:OP1	2.14	0.60
2:Ab:55:GLU:OE1	23:Vb:80:LYS:N	2.34	0.60
40:Dy:207:TYR:CE2	40:Dy:211:LEU:HD11	2.36	0.60
45:Iy:12:GLN:NE2	45:Iy:129:VAL:O	2.35	0.60
54:Sy:68:HIS:O	54:Sy:73:LYS:NZ	2.34	0.60
77:pb:73:THR:OG1	77:pb:76:ALA:HB2	2.02	0.60
78:1b:90:C:O2'	78:1b:282:G:OP1	2.19	0.60
1:a:1472:C:C2	1:a:1534:G:C2	2.90	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:t:22:VAL:HG22	20:t:34:THR:CG2	2.31	0.60
20:t:68:ARG:NH1	20:t:71:GLN:OE1	2.35	0.60
61:K:102:GLU:N	61:K:102:GLU:OE2	2.34	0.60
1:2b:629:U:O4	1:2b:970:A:N7	2.34	0.60
1:2b:704:C:N4	1:2b:732:G:HO2'	1.99	0.60
1:2b:885:G:N2	17:Ob:123:SER:O	2.34	0.60
1:2b:968:U:OP1	1:2b:1033:C:O2'	2.18	0.60
10:Hb:165:LYS:O	10:Hb:168:SER:OG	2.18	0.60
40:Dy:52:VAL:HG22	40:Dy:147:ASP:CB	2.30	0.60
40:Dy:68:THR:OG1	40:Dy:71:GLY:O	2.18	0.60
44:Hy:47:LYS:NZ	48:My:5:SER:O	2.35	0.60
50:Oy:164[A]:SER:OG	78:1b:3181:C:O2'	1.91	0.60
53:Ry:98:ARG:NH2	53:Ry:130:ASN:OD1	2.35	0.60
73:lb:2:ALA:N	78:1b:1493:G:O6	2.34	0.60
1:a:931:C:O2'	3:c:118:GLN:O	2.18	0.60
1:a:1424:A:OP2	6:e:151:LYS:NZ	2.32	0.60
1:a:1430:U:O4'	22:v:72:ASN:ND2	2.35	0.60
78:Aa:309:U:OP1	70:T:84:LYS:NZ	2.34	0.60
35:Bb:27:A:O3'	46:Ma:141:ARG:NH1	2.34	0.60
41:Ha:105:TYR:OH	41:Ha:137:ASP:OD2	2.07	0.60
67:Q:91:ALA:HB1	67:Q:94:PHE:CE2	2.36	0.60
1:2b:78:A:O2'	9:Gb:172:ALA:O	2.19	0.60
1:2b:803:A:O4'	24:Wb:107:SER:OG	2.19	0.60
1:2b:1202:A:N6	1:2b:1457:C:O5'	2.35	0.60
1:2b:1572:G:O3'	8:Fb:185:ARG:NH2	2.34	0.60
3:Ba:179:SER:OG	3:Ba:187:LYS:NZ	2.25	0.60
6:Db:192:PRO:O	6:Db:195:SER:OG	2.13	0.60
11:Ib:117:TYR:O	11:Ib:119:GLN:NE2	2.34	0.60
23:Vb:80:LYS:O	23:Vb:82:VAL:N	2.34	0.60
24:Wb:86:ILE:O	24:Wb:89:TRP:N	2.35	0.60
33:gb:230:ALA:C	33:gb:231:MET:HE2	2.26	0.60
44:Hy:76:ASP:O	44:Hy:80:THR:OG1	2.18	0.60
45:Iy:207:GLU:OE1	45:Iy:208:ASN:ND2	2.34	0.60
46:Jy:73:GLY:O	46:Jy:76:ALA:HB3	2.01	0.60
47:Ly:109:PHE:CD2	70:ib:20:MET:HE1	2.37	0.60
78:1b:2221:G:N2	78:1b:2224:A:OP2	2.34	0.60
78:1b:3153:U:O2'	78:1b:3154:C:O4'	2.19	0.60
1:a:1334:U:O2'	22:v:85:ARG:NH2	2.35	0.60
78:Aa:498:A:O2'	78:Aa:3273:A:N1	2.33	0.60
78:Aa:880:G:OP1	51:A:131:ARG:NH2	2.32	0.60
7:Eb:211:LYS:HB3	7:Eb:217:THR:HG22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Gb:49:VAL:HG12	9:Gb:115:LYS:HB3	1.83	0.60
39:Cy:60:THR:OG1	39:Cy:61:SER:N	2.33	0.60
1:a:159:U:O2'	9:h:87:ARG:NH2	2.34	0.60
1:a:1088:A:O3'	28:l:89:ARG:NH2	2.35	0.60
1:a:1194:A:OP2	22:v:75:GLY:N	2.34	0.60
78:Aa:1062:A:N3	55:E:130:ARG:NH2	2.50	0.60
36:Ca:85:G:O2'	36:Ca:87:G:O5'	2.20	0.60
39:Fa:361:HIS:O	54:D:26:ARG:NH2	2.35	0.60
48:Oa:135:LEU:HD21	50:Qa:178:VAL:HG22	1.82	0.60
1:2b:1312:A:OP1	19:Rb:2:GLY:N	2.35	0.60
2:Ab:77:SER:O	2:Ab:100:GLY:N	2.35	0.60
37:Ay:188:LYS:NZ	78:1b:1793:C:O2	2.34	0.60
38:By:216:ASP:OD2	38:By:339:ARG:NH2	2.33	0.60
40:Dy:263:GLU:O	40:Dy:267:ALA:N	2.35	0.60
1:a:1597:A:C2	30:4:13:ARG:C	2.80	0.60
1:a:1600:A:O2'	1:a:1602:C:N4	2.35	0.60
6:e:54:ARG:O	6:e:58:VAL:HG23	2.02	0.60
9:h:76:LEU:HD22	9:h:94:ARG:HE	1.65	0.60
24:x:3:ARG:NH1	24:x:9:ASP:OD2	2.33	0.60
78:Aa:1213:G:OP1	54:D:137:ARG:NH1	2.35	0.60
78:Aa:1873:U:P	53:C:21:LYS:HZ1	2.24	0.60
78:Aa:3045:G:OP1	38:Ea:19:ARG:NH2	2.35	0.60
64:N:41:LEU:HD23	64:N:42:ILE:N	2.15	0.60
80:ba:63:ILE:HB	80:ba:77:LEU:HD21	1.83	0.60
33:gb:130:THR:HG22	33:gb:145:LEU:HD11	1.82	0.60
78:1b:1222:G:N2	78:1b:1285:G:O2'	2.33	0.60
15:n:89:ILE:HG23	15:n:90:LYS:H	1.67	0.60
33:7:128:ASP:OD1	33:7:130:THR:OG1	2.16	0.60
78:Aa:695:C:OP2	39:Fa:115:HIS:NE2	2.30	0.60
35:Bb:110:G:OP1	40:Ga:282:ARG:NH2	2.35	0.60
39:Fa:209:TYR:O	39:Fa:229:ASN:ND2	2.35	0.60
40:Ga:56:THR:N	40:Ga:59:ASP:O	2.35	0.60
44:Ka:4:ILE:HD13	54:D:142:GLN:HB3	1.84	0.60
53:C:17:VAL:HG22	53:C:18:GLY:H	1.66	0.60
1:2b:886:U:OP1	3:Ba:214:LYS:NZ	2.29	0.59
38:By:250:ALA:HB1	78:1b:2947:G:N3	2.16	0.59
78:1b:2754:G:O2'	78:1b:2755:C:OP1	2.20	0.59
78:1b:3355:U:O2'	78:1b:3357:U:OP2	2.19	0.59
1:a:629:U:OP2	1:a:969:C:N4	2.35	0.59
1:a:956:C:O3'	1:a:1047:G:N2	2.33	0.59
20:t:101:LEU:O	20:t:105:VAL:N	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3:9:LEU:HD21	34:3:55:VAL:HG22	1.82	0.59
30:4:14:TYR:N	30:4:14:TYR:HA	2.07	0.59
78:Aa:79:U:C2	78:Aa:325:A:N6	2.69	0.59
78:Aa:90:C:O4'	78:Aa:281:G:O2'	2.18	0.59
37:Da:13:GLY:O	37:Da:17:THR:HG23	2.02	0.59
45:La:31:ILE:HG22	45:La:62:SER:HB2	1.83	0.59
48:Oa:100:ALA:HA	48:Oa:103:ILE:HD12	1.84	0.59
69:S:101:THR:HG23	69:S:104:GLN:H	1.64	0.59
1:2b:406:U:O2'	9:Gb:94:ARG:NH2	2.35	0.59
1:2b:799:A:O3'	7:Eb:201:HIS:NE2	2.35	0.59
30:db:21:CYS:SG	30:db:24:CYS:N	2.75	0.59
40:Dy:160:PHE:O	40:Dy:163:LEU:N	2.35	0.59
60:Yy:36:SER:H	60:Yy:39:LEU:HD12	1.65	0.59
1:a:115:G:N2	1:a:302:U:O2'	2.35	0.59
13:l:3:MET:SD	13:l:45:ALA:HB2	2.42	0.59
33:7:207:ASP:OD1	33:7:209:THR:OG1	2.16	0.59
78:Aa:108:A:N7	47:Na:55:ARG:NH2	2.49	0.59
78:Aa:2651:G:HO2'	78:Aa:2796:G:H1	1.49	0.59
35:Bb:44:C:OP1	46:Ma:137:ARG:NH2	2.35	0.59
10:Hb:48:GLU:OE2	10:Hb:88:ARG:NE	2.36	0.59
21:Tb:21:PHE:O	21:Tb:25:GLN:N	2.35	0.59
34:cb:49:ARG:N	34:cb:52:ASP:OD2	2.34	0.59
35:4b:77:G:H22	35:4b:101:G:H2'	1.66	0.59
44:Hy:3:TYR:N	44:Hy:60:GLY:O	2.35	0.59
52:Qy:45:ASN:ND2	52:Qy:132:PRO:O	2.35	0.59
52:Qy:69:ARG:NH2	78:1b:721:G:OP1	2.36	0.59
55:Ty:17:ARG:NH1	55:Ty:45:ASN:OD1	2.36	0.59
78:1b:1764:U:H3'	78:1b:1765:U:H4'	1.84	0.59
17:p:81:VAL:O	17:p:82:LYS:NZ	2.35	0.59
20:t:29:VAL:O	20:t:33:THR:HG23	2.01	0.59
78:Aa:1063:G:O6	55:E:109:VAL:HG13	2.03	0.59
78:Aa:1574:C:O2'	78:Aa:1575:A:OP1	2.20	0.59
78:Aa:3158:G:O6	78:Aa:3292:A:C6	2.55	0.59
70:T:83:ALA:O	70:T:87:VAL:HG23	2.03	0.59
1:2b:768:C:C2	12:Jb:143:ILE:HG21	2.37	0.59
1:2b:1231:U:HO2'	1:2b:1258:U:HO2'	1.50	0.59
1:2b:1611:A:O2'	8:Fb:95:ASN:O	2.20	0.59
32:fb:138:ARG:C	32:fb:139:LEU:HD12	2.27	0.59
39:Cy:283:THR:HG21	39:Cy:289:ILE:HD11	1.85	0.59
44:Hy:90:MET:HE3	44:Hy:181:VAL:CG2	2.32	0.59
52:Qy:164:ARG:NH2	78:1b:1110:U:OP1	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:Ry:100:ARG:NH1	78:1b:1722:U:OP1	2.35	0.59
56:Uy:86:LYS:HZ3	78:1b:1684:U:P	2.26	0.59
61:Zy:97:SER:N	61:Zy:100:THR:OG1	2.36	0.59
14:m:72:THR:OG1	14:m:123:VAL:O	2.09	0.59
78:Aa:66:A:N6	78:Aa:75:G:C2	2.70	0.59
36:Ca:37:A:OP2	69:S:89:ARG:NH2	2.36	0.59
38:Ea:308:MET:HE1	38:Ea:370:PHE:HB2	1.84	0.59
38:Ea:345:ASN:O	38:Ea:351:LEU:HD21	2.02	0.59
60:J:20:PHE:O	60:J:27:ARG:NH2	2.35	0.59
61:K:54:THR:OG1	61:K:55:LYS:N	2.36	0.59
80:ba:56:ASN:ND2	80:ba:82:GLY:O	2.35	0.59
1:2b:774:A:H61	1:2b:786:C:N4	1.98	0.59
4:Pb:85:ILE:HG22	4:Pb:112:LEU:HD23	1.83	0.59
7:Eb:141:THR:OG1	7:Eb:143:ASP:OD1	2.17	0.59
33:gb:167:VAL:HG23	33:gb:183:LEU:HB2	1.83	0.59
33:gb:172:ALA:HB1	33:gb:199:ILE:HG21	1.84	0.59
37:Ay:65:ASP:OD1	37:Ay:67:TYR:N	2.36	0.59
39:Cy:321:LYS:O	39:Cy:324:LEU:N	2.33	0.59
78:1b:126:U:H3	78:1b:142:C:H42	1.48	0.59
14:m:93:TYR:C	14:m:94:ILE:HD12	2.26	0.59
20:t:100:THR:CG2	20:t:105:VAL:HG12	2.26	0.59
78:Aa:688:G:H21	78:Aa:692:A:H62	1.50	0.59
78:Aa:2374:C:N4	78:Aa:2941:A:O4'	2.35	0.59
78:Aa:2794:G:O2'	78:Aa:2795:U:OP2	2.18	0.59
78:Aa:2922:G:N2	78:Aa:2952:G:O2'	2.35	0.59
39:Fa:59:GLN:OE1	71:U:55:ARG:NH1	2.33	0.59
41:Ha:40:LEU:HD11	41:Ha:54:TYR:HB2	1.83	0.59
47:Na:108:ILE:O	47:Na:112:ASN:ND2	2.32	0.59
54:D:136:LYS:O	54:D:138:GLN:NE2	2.36	0.59
65:O:70:ARG:O	65:O:71:LEU:HD23	2.03	0.59
67:Q:106:ASN:O	67:Q:107:ILE:HD13	2.03	0.59
1:2b:68:A:O4'	9:Gb:160:ARG:NH1	2.35	0.59
2:Ab:59:LEU:HD22	23:Vb:79:LEU:HD11	1.84	0.59
5:Cb:232:GLU:OE1	5:Cb:232:GLU:N	2.35	0.59
33:gb:282:SER:OG	33:gb:283:LYS:N	2.33	0.59
50:Oy:182[A]:ASN:OD1	50:Oy:183[A]:ALA:N	2.35	0.59
65:dy:40:ALA:O	65:dy:43:HIS:N	2.35	0.59
67:fy:96:ALA:HB2	78:1b:3173:G:C2	2.37	0.59
76:ob:63:LYS:NZ	78:1b:2761:G:N7	2.33	0.59
78:1b:1682:U:O2'	78:1b:1684:U:OP2	2.14	0.59
18:r:115:THR:O	18:r:117:LEU:N	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:879:U:O2'	78:Aa:880:G:OP2	2.17	0.59
78:Aa:1914:G:N2	53:C:81:ARG:O	2.26	0.59
78:Aa:3217:C:P	78:Aa:3266:G:H22	2.26	0.59
42:Ia:208:SER:OG	42:Ia:209:ASN:N	2.31	0.59
45:La:130:ASP:N	45:La:133:GLN:OE1	2.35	0.59
47:Na:59:ARG:NH2	47:Na:68:LYS:O	2.32	0.59
1:2b:154:G:O6	26:Yb:128:LYS:NZ	2.36	0.59
1:2b:1216:C:O2'	1:2b:1217:A:O5'	2.19	0.59
1:2b:1584:G:O2'	1:2b:1585:U:OP2	2.19	0.59
4:Pb:98:ASN:OD1	4:Pb:101:ALA:N	2.35	0.59
6:Db:98:ALA:O	6:Db:101:GLN:N	2.36	0.59
38:By:71:GLU:OE2	38:By:357:LYS:NZ	2.36	0.59
47:Ly:90:ALA:HB1	47:Ly:95:ILE:HB	1.85	0.59
56:Uy:56:VAL:HG22	56:Uy:65:VAL:HG22	1.84	0.59
67:fy:49:ILE:HD11	67:fy:71:VAL:HG23	1.84	0.59
1:a:477:A:OP1	31:5:31:LYS:N	2.36	0.59
1:a:885:G:N2	17:p:123:SER:OG	2.35	0.59
1:a:1553:G:N7	4:q:43:ARG:NH1	2.51	0.59
9:h:123:GLY:C	9:h:124:LEU:HD12	2.26	0.59
16:o:96:VAL:HG21	16:o:147:SER:HA	1.84	0.59
4:q:86:VAL:HG22	4:q:89:MET:HE3	1.83	0.59
20:t:42:TYR:O	20:t:46:VAL:HG23	2.02	0.59
23:w:78:LEU:O	23:w:79:LEU:HD23	2.02	0.59
78:Aa:79:U:N3	78:Aa:325:A:C6	2.71	0.59
40:Ga:293:LEU:HD23	45:La:210:ILE:HG13	1.84	0.59
46:Ma:17:LEU:HD11	46:Ma:19:LEU:HD21	1.84	0.59
51:A:180:LYS:O	51:A:184:ALA:HA	2.01	0.59
65:O:72:ARG:C	65:O:73:LEU:HD23	2.27	0.59
49:Ny:7:LEU:O	49:Ny:11:GLN:N	2.35	0.59
56:Uy:46:ALA:HB3	56:Uy:49:ASN:HD21	1.67	0.59
64:cy:99:ASP:O	64:cy:102:THR:OG1	2.20	0.59
68:gy:61:GLN:O	68:gy:64:THR:OG1	2.15	0.59
70:ib:73:ALA:O	70:ib:77:LEU:N	2.33	0.59
78:1b:2137:U:OP2	78:1b:2142:A:N6	2.35	0.59
1:a:126:A:H62	1:a:291:G:H21	1.51	0.59
1:a:1095:U:O3'	24:x:19:LYS:NZ	2.36	0.59
27:0:51:LEU:HD23	27:0:83:LEU:HD21	1.85	0.59
78:Aa:147:U:N3	43:Ja:158:ASP:O	2.36	0.59
78:Aa:1074:U:C1'	63:M:46:ALA:HB2	2.32	0.59
78:Aa:1382:G:OP1	39:Fa:188:ARG:NH2	2.36	0.59
78:Aa:3119:U:O2'	78:Aa:3121:U:OP1	2.12	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:804:A:N3	24:Wb:105:THR:HG22	2.18	0.59
1:2b:1435:G:O2'	1:2b:1436:A:OP1	2.18	0.59
17:Ob:131:GLY:O	17:Ob:134:GLY:N	2.36	0.59
19:Rb:25:THR:O	19:Rb:31:ASN:ND2	2.34	0.59
23:Vb:58:TYR:O	23:Vb:61:SER:OG	2.19	0.59
34:cb:50:GLU:N	34:cb:50:GLU:OE2	2.36	0.59
40:Dy:182:GLY:HA2	40:Dy:194:LEU:HD23	1.85	0.59
55:Ty:71:SER:HG	55:Ty:91:LEU:C	2.11	0.59
66:ey:106:VAL:O	66:ey:109:LEU:N	2.36	0.59
1:a:488:G:C6	1:a:498:G:N2	2.71	0.59
1:a:903:U:O3'	17:p:135:ARG:NH2	2.35	0.59
1:a:1199:G:N2	30:4:29:GLY:O	2.36	0.59
1:a:1203:A:H61	1:a:1553:G:H21	1.51	0.59
16:o:29:SER:O	16:o:33:VAL:HG23	2.02	0.59
22:v:21:LYS:O	22:v:119:ALA:HA	2.02	0.59
30:4:10:HIS:CD2	30:4:11:PRO:HD2	2.37	0.59
78:Aa:113:C:OP1	49:Pa:147:ARG:NH2	2.36	0.59
78:Aa:590:G:OP1	66:P:62:LYS:NZ	2.34	0.59
78:Aa:1940:G:H21	78:Aa:3362:A:H8	1.51	0.59
35:Bb:47:C:OP2	40:Ga:158:ARG:NH2	2.35	0.59
46:Ma:93:ASP:OD1	46:Ma:94:ARG:NH1	2.36	0.59
48:Oa:40:ASP:OD1	48:Oa:43:LYS:N	2.35	0.59
74:X:87:SER:O	74:X:91:CYS:N	2.33	0.59
1:2b:261:U:O2'	1:2b:262:U:O5'	2.21	0.59
1:2b:1345:A:OP1	22:Ub:54:GLY:N	2.36	0.59
1:2b:1554:U:OP1	30:db:13:ARG:NE	2.34	0.59
25:Xb:40:SER:O	25:Xb:41:SER:OG	2.20	0.59
33:gb:27:ALA:HB2	33:gb:296:ALA:HB1	1.84	0.59
36:3b:149:A:N6	78:1b:8:C:N4	2.50	0.59
51:Py:55:GLN:O	51:Py:72:GLN:NE2	2.36	0.59
53:Ry:106:LEU:CD2	53:Ry:138:LEU:HD21	2.32	0.59
62:ay:42:ARG:O	62:ay:45:MET:N	2.36	0.59
78:1b:807:A:N6	78:1b:2411:U:O2'	2.28	0.59
1:a:488:G:O6	1:a:499:U:C2	2.56	0.59
1:a:1445:G:C4	32:6:91:ILE:HD11	2.38	0.59
3:c:122:GLU:OE2	3:c:122:GLU:N	2.36	0.59
5:d:244:SER:HA	5:d:247:ALA:HB3	1.85	0.59
16:o:40:TYR:HE2	16:o:54:LEU:HD21	1.68	0.59
24:x:89:TRP:O	24:x:93:LEU:HD23	2.03	0.59
78:Aa:659:G:H2'	78:Aa:1432:C:H41	1.66	0.59
78:Aa:789:A:N3	39:Fa:114:ASN:ND2	2.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:900:G:C2	78:Aa:1589:A:N6	2.70	0.59
78:Aa:1064:A:N1	78:Aa:1092:C:N3	2.51	0.59
78:Aa:3296:A:OP1	38:Ea:121:ASN:N	2.35	0.59
78:Aa:3304:U:O3'	38:Ea:331:ASN:ND2	2.36	0.59
50:Qa:19:LEU:O	50:Qa:23:VAL:HG23	2.03	0.59
1:2b:227:U:N3	1:2b:235:G:C6	2.71	0.58
1:2b:351:C:O4'	25:Xb:13:ARG:NH1	2.36	0.58
1:2b:1174:C:OP2	20:Sb:141:THR:OG1	2.13	0.58
1:2b:1294:G:O6	1:2b:1303:U:O4	2.21	0.58
20:Sb:25:ASN:OD1	20:Sb:26:ILE:HG23	2.03	0.58
34:cb:59:SER:O	34:cb:61:ARG:N	2.36	0.58
39:Cy:299:ILE:HG22	39:Cy:300:ARG:O	2.03	0.58
43:Gy:250:ALA:O	43:Gy:253:SER:OG	2.19	0.58
44:Hy:1:MET:HE1	54:Sy:138:GLN:CG	2.32	0.58
49:Ny:19:LEU:O	49:Ny:23:GLN:N	2.31	0.58
60:Yy:110:HIS:C	60:Yy:111:LEU:HD12	2.28	0.58
64:cy:27:TYR:OH	64:cy:55:GLU:OE1	2.17	0.58
78:1b:1580:A:OP2	78:1b:2522:G:N2	2.36	0.58
1:a:145:A:O2'	1:a:146:U:O5'	2.21	0.58
1:a:1251:U:O2	32:6:135:HIS:NE2	2.34	0.58
1:a:1482:C:O2'	18:r:72:GLY:O	2.17	0.58
10:i:5:GLN:NE2	10:i:18:LEU:O	2.35	0.58
20:t:46:VAL:HG11	20:t:73:MET:HE3	1.85	0.58
21:u:77:ASN:OD1	21:u:101:ASN:ND2	2.34	0.58
32:6:130:VAL:HG11	32:6:143:LYS:HB2	1.85	0.58
36:Ca:152:G:P	43:Ja:60:ARG:HE	2.26	0.58
40:Ga:233:ALA:O	40:Ga:236:LEU:HD13	2.03	0.58
43:Ja:160:ILE:O	43:Ja:164:VAL:HG13	2.03	0.58
1:2b:747:C:O2'	24:Wb:80:ASN:OD1	2.18	0.58
15:Mb:73:LYS:CG	32:fb:108:VAL:HG11	2.33	0.58
39:Cy:309:ARG:NH2	78:1b:610:G:O6	2.34	0.58
47:Ly:76:THR:O	47:Ly:79:GLU:N	2.36	0.58
78:1b:971:G:O2'	78:1b:1371:G:N3	2.36	0.58
78:1b:2745:G:N2	78:1b:2748:A:OP2	2.33	0.58
19:s:93:LEU:HD13	19:s:98:GLY:O	2.03	0.58
42:Ia:88:ARG:NH2	42:Ia:91:GLY:O	2.35	0.58
1:2b:143:G:N7	9:Gb:177:ARG:NH1	2.50	0.58
1:2b:647:G:H22	1:2b:687:G:H22	1.50	0.58
1:2b:1196:A:O2'	1:2b:1602:C:O2'	2.14	0.58
1:2b:1699:G:O6	1:2b:1703:C:N4	2.36	0.58
1:2b:1756:A:P	78:1b:2256:A:H61	2.27	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ab:38:PHE:N	2:Ab:47:VAL:O	2.35	0.58
17:Ob:39:ILE:HG22	17:Ob:40:ALA:CB	2.33	0.58
32:fb:102:VAL:O	32:fb:105:TYR:OH	2.16	0.58
39:Cy:315:LYS:NZ	78:1b:609:G:OP2	2.36	0.58
44:Hy:49:ASN:OD1	44:Hy:52:LEU:N	2.36	0.58
48:My:124:ARG:NH2	78:1b:3212:C:OP2	2.35	0.58
54:Sy:33:ASN:N	54:Sy:33:ASN:OD1	2.36	0.58
76:ob:59:HIS:O	76:ob:61:LYS:N	2.36	0.58
78:1b:2789:U:O4	78:1b:2790:A:N6	2.36	0.58
1:a:336:G:N2	1:a:338:C:O4'	2.35	0.58
1:a:557:G:O4'	31:5:57:ASN:ND2	2.36	0.58
21:u:38:LYS:O	21:u:39:THR:OG1	2.18	0.58
78:Aa:363:G:OP2	71:U:56:ARG:NH2	2.35	0.58
78:Aa:2890:A:N1	78:Aa:2913:C:N3	2.50	0.58
78:Aa:3110:C:HO2'	44:Ka:155:SER:HG	1.48	0.58
42:Ia:22:THR:OG1	42:Ia:23:ALA:N	2.31	0.58
44:Ka:44:THR:O	44:Ka:55:VAL:HG13	2.03	0.58
49:Pa:124:ASP:OD1	49:Pa:127:TYR:N	2.35	0.58
73:W:37:TYR:CE1	73:W:39:ALA:HB2	2.38	0.58
1:2b:1387:G:OP1	19:Rb:32:LYS:NZ	2.24	0.58
11:Ib:7:SER:O	11:Ib:18:ARG:NH2	2.37	0.58
33:gb:173:GLY:O	33:gb:199:ILE:HD12	2.04	0.58
38:By:339:ARG:CZ	38:By:342:LEU:HD21	2.32	0.58
41:Ey:52:VAL:HG23	41:Ey:67:GLY:HA2	1.85	0.58
49:Ny:48:ALA:HB1	49:Ny:53:TYR:HB2	1.84	0.58
53:Ry:125:LYS:HZ2	53:Ry:125:LYS:HB3	1.69	0.58
64:cy:76:GLU:N	64:cy:76:GLU:OE2	2.36	0.58
78:1b:370:U:H3	78:1b:374:A:H62	1.49	0.58
78:1b:2107:A:N3	78:1b:3344:A:O2'	2.36	0.58
1:a:1241:G:OP2	4:q:77:ARG:NH2	2.35	0.58
2:b:120:LEU:HD12	2:b:121:VAL:H	1.68	0.58
29:2:62:ILE:HD11	29:2:64:CYS:O	2.04	0.58
78:Aa:994:G:C2	78:Aa:1053:A:C6	2.91	0.58
78:Aa:1554:U:O2'	78:Aa:1555:U:OP1	2.19	0.58
78:Aa:1727:G:OP1	77:aa:44:LYS:NZ	2.18	0.58
78:Aa:2423:U:C2	78:Aa:2608:G:C2	2.91	0.58
78:Aa:3276:G:N2	51:A:172:GLN:OE1	2.35	0.58
35:Bb:45:A:C5'	40:Ga:154:THR:HG21	2.32	0.58
47:Na:159:VAL:HA	62:L:124:ILE:HD11	1.85	0.58
61:K:88:ASP:OD1	61:K:89:VAL:N	2.36	0.58
1:2b:214:G:N2	1:2b:252:U:O4	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:821:U:N3	1:2b:852:C:O2	2.36	0.58
24:Wb:38:LEU:O	24:Wb:41:MET:N	2.36	0.58
39:Cy:203:ARG:HH21	39:Cy:240:PRO:HG2	1.68	0.58
40:Dy:128:GLU:O	40:Dy:164:LYS:NZ	2.25	0.58
67:fy:21:ARG:O	78:1b:633:C:O2'	2.22	0.58
1:a:530:C:O2	26:z:61:ARG:NH2	2.37	0.58
25:y:58:GLY:N	31:5:8:LEU:HD21	2.18	0.58
78:Aa:87:U:OP2	47:Na:11:LYS:NZ	2.36	0.58
78:Aa:696:C:OP2	39:Fa:119:ARG:NH2	2.37	0.58
78:Aa:1715:A:C5	64:N:84:LEU:HD13	2.38	0.58
78:Aa:1953:G:N1	78:Aa:2093:A:N6	2.51	0.58
37:Da:43:GLY:O	37:Da:88:ILE:N	2.33	0.58
40:Ga:26:GLY:O	46:Ma:144:CYS:N	2.35	0.58
69:S:7:TYR:O	69:S:11:THR:HG23	2.03	0.58
76:Z:24:LYS:HZ1	76:Z:73:GLU:HB3	1.68	0.58
1:2b:590:C:N3	1:2b:591:A:N6	2.51	0.58
1:2b:981:U:H1'	1:2b:1123:C:H42	1.69	0.58
1:2b:1158:C:H42	1:2b:1163:A:H61	1.50	0.58
5:Cb:153:SER:OG	5:Cb:154:LEU:N	2.34	0.58
33:gb:246:SER:OG	33:gb:249:ARG:N	2.35	0.58
39:Cy:157:GLU:OE2	39:Cy:210:ALA:N	2.34	0.58
51:Py:127:ARG:NH1	78:1b:1508:C:OP1	2.30	0.58
55:Ty:99:SER:OG	55:Ty:100:LYS:N	2.36	0.58
62:ay:117:ARG:NH2	78:1b:718:G:OP1	2.37	0.58
70:ib:54:GLU:HB3	70:ib:90:MET:HE1	1.86	0.58
78:1b:1348:U:O2	78:1b:1349:G:N2	2.36	0.58
78:1b:2841:G:H21	78:1b:2847:A:N6	2.02	0.58
1:a:10:G:N2	5:d:87:GLN:O	2.32	0.58
2:b:55:GLU:HG2	23:w:79:LEU:HD22	1.85	0.58
5:d:111:VAL:HG22	5:d:139:ILE:HD11	1.85	0.58
25:y:92:CYS:SG	25:y:132:LEU:HD22	2.44	0.58
33:7:159:ASN:ND2	33:7:164:ASP:OD1	2.36	0.58
78:Aa:1103:A:HO2'	78:Aa:1104:G:P	2.26	0.58
78:Aa:3050:U:O2'	58:H:16:GLY:O	2.21	0.58
47:Na:157:ARG:O	62:L:99:ALA:N	2.37	0.58
1:2b:1158:C:H42	1:2b:1163:A:N6	2.02	0.58
1:2b:1534:G:HO2'	1:2b:1535:U:P	2.25	0.58
57:Vy:17:LEU:O	57:Vy:52:ALA:HB3	2.03	0.58
76:ob:71:ARG:C	76:ob:72:LEU:HD12	2.27	0.58
78:1b:196:G:N1	78:1b:199:A:OP2	2.36	0.58
78:1b:1463:U:H3	78:1b:1467:A:H62	1.49	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:68:A:H5'	9:h:160:ARG:HH12	1.68	0.58
1:a:1524:A:N3	1:a:1590:G:O2'	2.28	0.58
21:u:84:LYS:N	21:u:92:LYS:O	2.34	0.58
78:Aa:1646:G:N2	78:Aa:1808:G:O2'	2.36	0.58
50:Qa:38:ALA:O	50:Qa:41:LEU:HD23	2.03	0.58
64:N:99:ASP:N	64:N:99:ASP:OD1	2.37	0.58
42:Fy:67:ARG:NH2	78:1b:518:G:OP1	2.37	0.58
57:Vy:14:SER:O	57:Vy:81:GLN:NE2	2.34	0.58
17:p:28:VAL:CG1	17:p:67:VAL:HG21	2.34	0.58
20:t:26:ILE:HG13	20:t:31:ALA:HB2	1.86	0.58
27:0:71:ILE:CG2	27:0:76:ALA:HB2	2.33	0.58
78:Aa:66:A:H61	78:Aa:75:G:N2	2.01	0.58
78:Aa:1627:U:C2	78:Aa:1817:G:C2	2.92	0.58
38:Ea:144:ILE:O	38:Ea:148:LEU:HD23	2.04	0.58
50:Qa:29:ASN:OD1	67:Q:14:LEU:HD22	2.03	0.58
56:F:33:TYR:O	56:F:37:LEU:HD23	2.04	0.58
64:N:100:ILE:O	64:N:105:ALA:HB3	2.03	0.58
3:Ba:97:LEU:HD22	3:Ba:232:HIS:CD2	2.38	0.58
17:Ob:39:ILE:HG22	17:Ob:40:ALA:HB2	1.86	0.58
42:Fy:211:SER:OG	78:1b:508:U:OP1	2.14	0.58
42:Fy:232:ARG:O	42:Fy:234:GLU:N	2.36	0.58
78:1b:2448:G:O2'	78:1b:2449:A:O5'	2.19	0.58
78:1b:2890:A:N1	78:1b:2913:C:N3	2.51	0.58
1:a:424:C:N4	1:a:429:G:H22	2.01	0.58
1:a:757:A:O3'	7:f:22:LYS:NZ	2.37	0.58
1:a:1550:A:OP2	4:q:42:ARG:NH2	2.36	0.58
1:a:1597:A:H61	30:4:12:ARG:CD	2.17	0.58
7:f:221:ARG:O	7:f:225:VAL:HG23	2.04	0.58
10:i:48:GLU:OE1	10:i:88:ARG:NE	2.36	0.58
11:j:7:SER:O	11:j:18:ARG:NH2	2.36	0.58
78:Aa:1480:G:N1	78:Aa:1872:C:OP2	2.35	0.58
78:Aa:1606:U:O4	68:R:9:ARG:NE	2.36	0.58
78:Aa:2762:A:N6	78:Aa:2795:U:C2	2.72	0.58
78:Aa:3357:U:O2'	78:Aa:3358:U:OP1	2.19	0.58
39:Fa:230:VAL:CG2	39:Fa:254:ALA:HB1	2.34	0.58
43:Ja:107:GLU:O	43:Ja:110:THR:OG1	2.17	0.58
49:Pa:160:GLU:OE1	49:Pa:160:GLU:N	2.37	0.58
50:Qa:13:GLY:O	50:Qa:124:LEU:HD13	2.04	0.58
62:L:16:SER:OG	62:L:16:SER:O	2.19	0.58
67:Q:33:GLU:N	67:Q:33:GLU:OE2	2.36	0.58
70:T:50:LEU:O	70:T:55:ARG:NH2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:fb:108:VAL:HG12	32:fb:109:ASP:O	2.02	0.58
37:Ay:142:ASP:N	37:Ay:142:ASP:OD1	2.37	0.58
55:Ty:71:SER:OG	55:Ty:72:VAL:N	2.30	0.58
1:a:1203:A:H61	1:a:1553:G:N2	2.01	0.58
13:l:22:VAL:O	13:l:64:TYR:O	2.22	0.58
33:7:21:THR:N	33:7:36:ALA:O	2.35	0.58
78:Aa:645:A:H5'	78:Aa:2372:A:H62	1.69	0.58
78:Aa:815:G:OP1	71:U:16:HIS:NE2	2.34	0.58
78:Aa:1632:A:OP1	61:K:48:ARG:NH1	2.37	0.58
78:Aa:1949:G:OP1	53:C:101:VAL:HG13	2.03	0.58
43:Ja:136:LEU:O	43:Ja:140:VAL:HG23	2.04	0.58
49:Pa:96:ARG:NH2	49:Pa:160:GLU:O	2.36	0.58
1:2b:609:U:O2	25:Xb:19:ARG:NH2	2.37	0.57
1:2b:819:G:C5	1:2b:853:G:N1	2.71	0.57
1:2b:859:A:O2'	16:Nb:73:ARG:NH2	2.37	0.57
16:Nb:116:ILE:O	16:Nb:120:SER:OG	2.22	0.57
20:Sb:17:LEU:HD21	20:Sb:22:VAL:HG21	1.85	0.57
37:Ay:59:ALA:N	37:Ay:76:PHE:O	2.33	0.57
41:Ey:76:LEU:N	41:Ey:138:GLN:OE1	2.35	0.57
44:Hy:68:LEU:HD23	44:Hy:69:ARG:N	2.19	0.57
64:cy:84:LEU:H	64:cy:84:LEU:HD12	1.69	0.57
78:1b:3154:C:O2	78:1b:3157:U:N3	2.37	0.57
1:a:574:G:O6	25:y:65:ASN:ND2	2.36	0.57
1:a:961:U:C5'	16:o:71:ILE:HD12	2.34	0.57
1:a:1496:U:HO2'	1:a:1519:U:HO2'	1.51	0.57
1:a:1532:U:OP2	27:0:77:ARG:NH1	2.37	0.57
5:d:40:LYS:HG2	5:d:247:ALA:HB1	1.85	0.57
8:g:165:LEU:O	8:g:169:ASN:ND2	2.37	0.57
16:o:113:PHE:HE1	16:o:117:LEU:HD11	1.69	0.57
4:q:18:ARG:NH1	20:t:90:ASN:O	2.37	0.57
23:w:58:TYR:O	23:w:61:SER:OG	2.21	0.57
25:y:60:GLU:HB2	31:5:2:ALA:HB3	1.85	0.57
78:Aa:3057:U:OP1	78:Aa:3085:G:N2	2.37	0.57
78:Aa:3079:U:O2'	78:Aa:3081:C:OP2	2.18	0.57
36:Ca:11:C:O3'	51:A:3:ARG:NH1	2.37	0.57
50:Qa:185:ALA:O	50:Qa:188:SER:OG	2.19	0.57
1:2b:1103:U:O4	25:Xb:2:GLY:N	2.37	0.57
1:2b:1251:U:O2'	1:2b:1252:C:OP1	2.18	0.57
3:Ba:176:VAL:O	3:Ba:179:SER:N	2.37	0.57
18:Qb:80:ALA:O	18:Qb:83:GLN:N	2.36	0.57
48:My:18:GLY:HA2	48:My:72:LEU:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:Ry:81:ARG:NH2	78:1b:2104:A:OP2	2.37	0.57
53:Ry:82:LYS:NZ	78:1b:2115:G:O2'	2.30	0.57
78:1b:1189:C:C4	78:1b:1315:U:O2	2.57	0.57
1:a:609:U:O2	25:y:19:ARG:NH1	2.37	0.57
1:a:1083:G:O2'	1:a:1094:G:O2'	2.21	0.57
7:f:184:THR:C	7:f:189:LEU:HD13	2.29	0.57
78:Aa:860:G:OP1	77:aa:17:ARG:NH2	2.38	0.57
78:Aa:1906:G:N2	78:Aa:1909:A:H61	2.01	0.57
78:Aa:3186:A:N1	44:Ka:58:HIS:N	2.52	0.57
78:Aa:3333:G:H21	78:Aa:3370:A:H62	1.51	0.57
1:2b:487:G:C6	1:2b:501:U:C4	2.91	0.57
1:2b:1158:C:N4	1:2b:1163:A:H61	2.01	0.57
4:Pb:19:GLY:N	20:Sb:93:THR:O	2.36	0.57
10:Hb:103:SER:OG	10:Hb:104:ARG:N	2.35	0.57
38:By:339:ARG:NH2	38:By:342:LEU:HD21	2.19	0.57
40:Dy:140:ARG:O	78:1b:1079:A:H4'	2.03	0.57
70:ib:51:SER:N	70:ib:54:GLU:OE1	2.35	0.57
78:1b:2677:G:N2	78:1b:2680:A:N7	2.47	0.57
1:a:1218:G:H22	1:a:1444:A:P	2.26	0.57
10:i:129:LEU:HD21	10:i:172:VAL:HG11	1.87	0.57
33:7:197:SER:OG	33:7:217:ASP:N	2.35	0.57
78:Aa:2703:A:O4'	40:Ga:23:ARG:NH2	2.38	0.57
36:Ca:23:U:OP1	60:J:16:ARG:NH2	2.35	0.57
37:Da:45:VAL:HG13	37:Da:45:VAL:O	2.05	0.57
40:Ga:108:ARG:NE	40:Ga:251:PRO:O	2.29	0.57
55:E:37:GLY:N	55:E:64:VAL:O	2.37	0.57
1:2b:486:G:C6	1:2b:502:U:O4	2.57	0.57
1:2b:512:A:N3	12:Jb:131:GLN:NE2	2.52	0.57
1:2b:629:U:C6	78:1b:846:A:C8	2.92	0.57
1:2b:934:C:N4	1:2b:1077:C:O3'	2.37	0.57
2:Ab:27:ARG:HB2	2:Ab:29:VAL:HG22	1.87	0.57
3:Ba:41:ARG:O	3:Ba:43:VAL:HG23	2.03	0.57
26:Yb:81:GLU:OE1	26:Yb:81:GLU:N	2.37	0.57
38:By:66:LYS:O	38:By:70:ARG:NH1	2.37	0.57
67:fy:10:LYS:NZ	78:1b:3175:U:OP1	2.22	0.57
78:1b:831:G:O2'	78:1b:1864:A:N3	2.32	0.57
78:1b:3334:U:O2	78:1b:3334:U:O2'	2.20	0.57
1:a:267:U:OP1	9:h:183:ARG:NE	2.37	0.57
1:a:861:U:O2'	24:x:56:HIS:O	2.20	0.57
9:h:12:SER:OG	9:h:124:LEU:O	2.15	0.57
17:p:135:ARG:NH1	17:p:137:LEU:HD11	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:x:7:LEU:HD11	24:x:11:LEU:HD11	1.84	0.57
25:y:50:LYS:O	25:y:77:ILE:HD12	2.04	0.57
78:Aa:674:G:O2'	39:Fa:116:ASN:OD1	2.21	0.57
78:Aa:1766:G:H8	53:C:46:LYS:HZ1	1.52	0.57
78:Aa:1824:U:O2'	72:V:17:ARG:NH2	2.33	0.57
36:Ca:63:G:O2'	69:S:49:LYS:NZ	2.37	0.57
46:Ma:82:ARG:CB	46:Ma:112:LEU:HD12	2.35	0.57
47:Na:119:TYR:O	47:Na:123:ILE:HG23	2.04	0.57
2:Ab:31:VAL:HG12	2:Ab:33:GLN:H	1.70	0.57
10:Hb:11:GLN:NE2	10:Hb:11:GLN:O	2.37	0.57
15:Mb:98:GLY:O	15:Mb:101:ALA:C	2.48	0.57
33:gb:223:TRP:CZ3	33:gb:230:ALA:HB2	2.40	0.57
33:gb:246:SER:OG	33:gb:248:ASN:OD1	2.23	0.57
1:a:306:U:OP1	14:m:88:ARG:NH2	2.38	0.57
1:a:532:U:OP1	26:z:65:GLY:N	2.37	0.57
3:c:190:PRO:HG2	3:c:192:VAL:HG23	1.86	0.57
9:h:32:ILE:HD12	9:h:64:LYS:O	2.04	0.57
78:Aa:648:C:O2	78:Aa:2374:C:O2'	2.19	0.57
78:Aa:955:U:OP1	63:M:7:HIS:ND1	2.35	0.57
78:Aa:1064:A:N7	78:Aa:1096:U:O2	2.37	0.57
48:Oa:135:LEU:HD13	50:Qa:181:ALA:CB	2.35	0.57
54:D:83:SER:N	54:D:86:GLY:O	2.38	0.57
57:G:89:ASP:OD1	57:G:91:VAL:HG22	2.04	0.57
21:Tb:70:GLN:NE2	21:Tb:118:PRO:O	2.37	0.57
22:Ub:71:PRO:O	30:db:41:GLN:NE2	2.38	0.57
33:gb:70:ASP:OD1	33:gb:71:CYS:N	2.38	0.57
44:Hy:1:MET:HE2	44:Hy:3:TYR:CE1	2.39	0.57
65:dy:62:ARG:NH2	78:1b:3073:A:O2'	2.38	0.57
1:a:242:U:O2'	1:a:243:G:O5'	2.22	0.57
6:e:172:THR:O	6:e:173:ARG:NH1	2.37	0.57
9:h:26:VAL:O	9:h:30:LYS:NZ	2.26	0.57
23:w:30:ALA:HB3	23:w:57:GLY:HA3	1.85	0.57
33:7:198:ASN:O	33:7:200:ASN:ND2	2.38	0.57
78:Aa:1555:U:H5	78:Aa:1557:A:H62	1.51	0.57
78:Aa:1898:G:N2	78:Aa:1901:A:H62	2.01	0.57
78:Aa:2820:A:O2'	79:8:76:A:O2'	2.19	0.57
60:J:77:LYS:NZ	73:W:31:THR:OG1	2.37	0.57
60:J:112:ASP:OD1	60:J:113:LYS:N	2.37	0.57
67:Q:16:TYR:OH	67:Q:91:ALA:HB2	2.05	0.57
71:U:66:TYR:O	71:U:70:VAL:HG23	2.05	0.57
1:2b:341:A:O2'	11:Ib:87:ASN:ND2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:959:U:O2	29:bb:30:SER:OG	2.22	0.57
1:2b:1344:A:O2'	1:2b:1345:A:OP1	2.20	0.57
15:Mb:71:ILE:O	15:Mb:75:VAL:HG23	2.05	0.57
18:Qb:143:ARG:NH2	79:6b:34:U:OP2	2.38	0.57
19:Rb:21:TYR:O	19:Rb:23:LYS:N	2.34	0.57
39:Cy:31:ARG:HB3	39:Cy:34:ILE:HD12	1.86	0.57
1:a:115:G:OP1	14:m:67:ARG:NE	2.33	0.57
1:a:424:C:N3	1:a:429:G:N1	2.52	0.57
1:a:1554:U:N3	30:4:9:SER:O	2.33	0.57
34:3:9:LEU:HD23	34:3:55:VAL:HA	1.85	0.57
78:Aa:516:A:O3'	42:Ia:60:ARG:NH2	2.37	0.57
78:Aa:840:C:O4'	53:C:128:LYS:NZ	2.38	0.57
78:Aa:1841:A:C5	78:Aa:1848:G:C2	2.93	0.57
39:Fa:316:ASN:OD1	39:Fa:318:LEU:N	2.37	0.57
44:Ka:172:ILE:HD12	74:X:90:ASN:HB3	1.87	0.57
49:Pa:60:VAL:O	49:Pa:61:ILE:HD13	2.03	0.57
49:Pa:174:ILE:O	49:Pa:175:ASN:ND2	2.38	0.57
1:2b:445:A:N1	1:2b:462:G:O2'	2.37	0.57
1:2b:1633:A:O2'	1:2b:1634:C:OP1	2.23	0.57
11:Ib:89:GLU:OE1	11:Ib:89:GLU:N	2.37	0.57
16:Nb:95:ALA:O	16:Nb:99:ARG:N	2.35	0.57
37:Ay:226:SER:OG	37:Ay:227:ARG:N	2.36	0.57
45:Iy:77:THR:HG23	45:Iy:82:ARG:CA	2.35	0.57
1:a:694:U:N3	10:i:98:ILE:HD12	2.19	0.57
1:a:1204:A:P	30:4:12:ARG:HH22	2.27	0.57
1:a:1681:A:N6	1:a:1720:G:O2'	2.38	0.57
5:d:216:VAL:O	5:d:220:ASN:ND2	2.38	0.57
21:u:128:GLY:O	21:u:132:LEU:HD23	2.05	0.57
26:z:15:ASN:O	26:z:19:ALA:N	2.38	0.57
78:Aa:85:A:H61	78:Aa:99:A:H3'	1.70	0.57
36:Ca:70:G:H21	36:Ca:88:A:H62	1.53	0.57
37:Da:117:GLU:OE2	37:Da:121:GLY:N	2.37	0.57
43:Ja:95:ASN:OD1	43:Ja:98:ARG:NE	2.24	0.57
47:Na:151:ALA:O	47:Na:152:THR:OG1	2.18	0.57
59:I:69:SER:O	59:I:72:ALA:N	2.38	0.57
60:J:57:LEU:N	60:J:105:VAL:O	2.36	0.57
67:Q:58:GLU:OE1	67:Q:58:GLU:N	2.38	0.57
9:Gb:160:ARG:N	9:Gb:170:THR:O	2.38	0.57
10:Hb:87:ASP:O	10:Hb:88:ARG:NH1	2.38	0.57
43:Gy:90:THR:CB	43:Gy:214:LEU:HD21	2.34	0.57
44:Hy:1:MET:HE3	54:Sy:142:GLN:NE2	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:172:LEU:HD12	19:s:91:LEU:HD13	1.86	0.57
5:d:244:SER:O	5:d:248:SER:N	2.36	0.57
24:x:102:VAL:O	24:x:113:HIS:N	2.37	0.57
26:z:44:LEU:HA	26:z:47:VAL:HG22	1.86	0.57
78:Aa:185:C:O2'	60:J:125:LYS:NZ	2.25	0.57
78:Aa:2117:A:N6	78:Aa:3065:G:O4'	2.38	0.57
78:Aa:2208:A:H61	78:Aa:2237:C:H1'	1.67	0.57
37:Da:211:HIS:O	37:Da:213:GLY:N	2.37	0.57
44:Ka:90:MET:HE3	44:Ka:181:VAL:HG22	1.86	0.57
59:I:137:ASN:OD1	59:I:138:ARG:N	2.37	0.57
61:K:87:LEU:HD12	61:K:88:ASP:H	1.69	0.57
62:L:85:ASP:OD1	62:L:85:ASP:N	2.36	0.57
1:2b:594:A:OP2	12:Jb:37:LYS:NZ	2.38	0.57
3:Ba:210:ILE:O	3:Ba:210:ILE:HG22	2.05	0.57
44:Hy:46:THR:HA	48:My:7:VAL:HG11	1.86	0.57
68:gy:95:ILE:HG22	78:1b:2553:U:C4	2.40	0.57
78:1b:242:C:HO2'	78:1b:243:G:P	2.28	0.57
1:a:399:A:N3	7:f:3:ARG:NH1	2.53	0.57
6:e:60:GLY:N	6:e:64:ARG:O	2.37	0.57
29:2:61:THR:HG23	29:2:62:ILE:H	1.68	0.57
78:Aa:253:A:O2'	78:Aa:254:A:O4'	2.23	0.57
78:Aa:364:G:OP2	71:U:52:LYS:NZ	2.27	0.57
78:Aa:507:U:OP1	42:Ia:150:LYS:NZ	2.33	0.57
78:Aa:509:U:C2	78:Aa:583:G:C6	2.93	0.57
78:Aa:3310:A:OP1	51:A:74:LYS:NZ	2.38	0.57
54:D:155:ARG:NH1	54:D:157:GLN:OE1	2.37	0.57
62:L:95:SER:OG	62:L:98:THR:O	2.23	0.57
57:Vy:49:LEU:HD12	78:1b:2338:C:H1'	1.86	0.56
64:cy:74:ASN:OD1	64:cy:75:ASN:N	2.37	0.56
77:pb:41:PHE:O	78:1b:1729:A:N6	2.38	0.56
78:1b:760:G:N2	78:1b:770:G:N3	2.53	0.56
78:1b:1071:U:O2'	78:1b:1072:G:O5'	2.23	0.56
78:1b:3313:U:O4	78:1b:3314:A:N6	2.38	0.56
79:6b:51:G:O6	79:6b:64:C:N4	2.38	0.56
1:a:142:G:H22	1:a:173:A:H2	1.53	0.56
1:a:855:A:O2'	1:a:857:U:O5'	2.22	0.56
1:a:953:G:OP2	16:o:94:LYS:NZ	2.36	0.56
5:d:54:GLU:N	5:d:54:GLU:OE2	2.34	0.56
10:i:168:SER:O	10:i:172:VAL:HG23	2.05	0.56
11:j:164:ARG:NE	78:Aa:3353:G:OP2	2.37	0.56
14:m:15:LYS:HA	14:m:54:ILE:HD12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:t:24:GLY:O	20:t:59:GLY:N	2.36	0.56
26:z:121:THR:HG22	26:z:123:LYS:H	1.70	0.56
78:Aa:1389:G:OP1	66:P:104:ASN:ND2	2.37	0.56
78:Aa:1906:G:N3	78:Aa:1908:A:N6	2.53	0.56
78:Aa:2157:G:O3'	37:Da:156:LYS:NZ	2.37	0.56
78:Aa:2561:A:C5	78:Aa:2579:G:C2	2.93	0.56
78:Aa:2820:A:HO2'	79:8:76:A:HO2'	1.53	0.56
39:Fa:316:ASN:O	39:Fa:319:LYS:C	2.48	0.56
48:Oa:31:LYS:NZ	48:Oa:51:ALA:O	2.24	0.56
58:H:9:SER:CB	58:H:52:THR:HG22	2.35	0.56
67:Q:41:ALA:O	67:Q:44:TYR:N	2.38	0.56
69:S:17:LEU:HB3	69:S:58:ILE:HD11	1.87	0.56
13:Kb:15:LEU:O	13:Kb:19:GLY:N	2.36	0.56
28:ab:44:ILE:HD12	28:ab:65:PRO:HG2	1.87	0.56
39:Cy:14:GLU:OE1	39:Cy:14:GLU:N	2.34	0.56
47:Ly:79:GLU:OE2	47:Ly:103:ASN:ND2	2.39	0.56
56:Uy:82:LYS:NZ	78:1b:1685:C:OP2	2.35	0.56
65:dy:40:ALA:O	65:dy:44:MET:N	2.37	0.56
78:1b:1001:G:H21	78:1b:1041:U:P	2.28	0.56
78:1b:1903:U:N3	78:1b:1906:G:OP2	2.32	0.56
1:a:513:U:OP1	12:k:133:HIS:NE2	2.38	0.56
1:a:895:G:O2'	17:p:38:THR:N	2.37	0.56
1:a:1429:G:O2'	22:v:72:ASN:ND2	2.36	0.56
3:c:198:GLU:HG2	3:c:210:ILE:HD13	1.87	0.56
7:f:195:ILE:O	7:f:197:HIS:N	2.37	0.56
9:h:46:LYS:O	9:h:119:GLN:NE2	2.38	0.56
10:i:173:TYR:CD1	10:i:181:ILE:HD11	2.40	0.56
22:v:45:ALA:O	22:v:48:HIS:C	2.48	0.56
78:Aa:266:A:OP1	49:Pa:5:LYS:NZ	2.38	0.56
78:Aa:351:A:OP1	73:W:34:THR:OG1	2.23	0.56
78:Aa:608:A:OP1	39:Fa:320:ASN:ND2	2.36	0.56
78:Aa:1919:G:H21	78:Aa:1933:A:H62	1.52	0.56
78:Aa:3019:U:O2	78:Aa:3035:A:N6	2.34	0.56
35:Bb:100:C:P	54:D:52:LYS:HZ2	2.28	0.56
65:O:37:LYS:HG2	65:O:49:VAL:HG11	1.86	0.56
65:O:88:PRO:C	65:O:89:LEU:HD12	2.29	0.56
76:Z:75:VAL:HG23	76:Z:76:LYS:HD3	1.86	0.56
1:2b:124:A:O3'	7:Eb:148:ARG:NH1	2.38	0.56
1:2b:424:C:H42	1:2b:429:G:N2	2.04	0.56
1:2b:1211:A:N3	4:Pb:97:TYR:OH	2.33	0.56
1:2b:1229:G:H2'	1:2b:1256:A:H61	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:1558:U:O2'	1:2b:1559:A:OP2	2.16	0.56
1:2b:1680:G:O2'	1:2b:1721:A:N6	2.39	0.56
5:Cb:38:VAL:O	5:Cb:39:THR:HG23	2.06	0.56
9:Gb:14:LYS:CB	9:Gb:124:LEU:HD21	2.36	0.56
15:Mb:62:LEU:HD23	15:Mb:63:VAL:O	2.05	0.56
15:Mb:84:ASN:O	15:Mb:86:VAL:HG22	2.05	0.56
40:Dy:216:GLU:O	40:Dy:220:SER:N	2.36	0.56
46:Jy:173:ASP:OD1	46:Jy:173:ASP:N	2.37	0.56
48:My:124:ARG:NH1	78:1b:3214:U:O4	2.38	0.56
49:Ny:50:ARG:O	78:1b:267:G:N2	2.39	0.56
56:Uy:21:SER:OG	56:Uy:105:LEU:O	2.20	0.56
61:Zy:17:ARG:NH2	61:Zy:18:TYR:OH	2.37	0.56
72:kb:63:LYS:HA	72:kb:66:ILE:HD12	1.87	0.56
78:1b:664:U:H2'	78:1b:665:A:C8	2.40	0.56
78:1b:3006:A:H62	78:1b:3140:G:H21	1.50	0.56
78:1b:3335:A:OP2	78:1b:3368:U:N3	2.35	0.56
1:a:121:U:H1'	7:f:33:ALA:HB3	1.87	0.56
1:a:706:A:N1	1:a:734:A:N6	2.52	0.56
1:a:775:G:O6	26:z:11:LYS:NZ	2.39	0.56
1:a:1473:U:O2	8:g:102:ARG:NH2	2.39	0.56
1:a:1580:C:OP1	18:r:140:LYS:NZ	2.38	0.56
4:q:126:VAL:HG13	4:q:127:ARG:HG3	1.86	0.56
34:3:39:THR:C	34:3:40:ILE:HD12	2.30	0.56
78:Aa:1100:U:P	42:Ia:196:LYS:HZ3	2.28	0.56
78:Aa:1748:G:OP2	72:V:42:LYS:NZ	2.39	0.56
78:Aa:2181:C:OP1	37:Da:193:ARG:NH1	2.35	0.56
78:Aa:2260:U:HO2'	78:Aa:2261:G:P	2.28	0.56
78:Aa:2853:A:O3'	45:La:64:ALA:HB2	2.06	0.56
78:Aa:2895:G:O2'	74:X:100:TYR:O	2.22	0.56
38:Ea:17:LEU:HD21	38:Ea:233:TRP:CH2	2.40	0.56
41:Ha:158:TYR:OH	48:Oa:114:ASP:OD2	2.08	0.56
45:La:174:THR:OG1	45:La:175:ASN:N	2.39	0.56
49:Pa:6:TYR:CD1	70:T:40:VAL:HG13	2.40	0.56
49:Pa:118:SER:OG	49:Pa:131:GLU:O	2.06	0.56
54:D:52:LYS:N	54:D:55:SER:OG	2.36	0.56
1:2b:267:U:OP1	9:Gb:183:ARG:NE	2.39	0.56
1:2b:765:G:O6	12:Jb:149:ARG:NH1	2.39	0.56
13:Kb:20:VAL:HG12	13:Kb:67:THR:HB	1.86	0.56
16:Nb:71:ILE:HA	16:Nb:74:ILE:HD12	1.87	0.56
46:Jy:29:ARG:O	46:Jy:33:ALA:N	2.36	0.56
50:Oy:12[A]:LYS:NZ	78:1b:3184:A:OP2	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:1b:1564:U:O4	78:1b:1576:G:O6	2.23	0.56
1:a:959:U:O2	29:2:30:SER:OG	2.23	0.56
8:g:53:VAL:HB	8:g:59:VAL:HG22	1.87	0.56
21:u:35:ASP:OD1	21:u:36:ILE:HG23	2.04	0.56
78:Aa:21:G:N7	36:Ca:37:A:N6	2.53	0.56
78:Aa:1408:G:OP1	66:P:33:ARG:NH2	2.37	0.56
35:Bb:22:A:N6	40:Ga:269:SER:O	2.37	0.56
42:Ia:219:LYS:O	42:Ia:228:SER:N	2.39	0.56
3:Ba:217:LEU:HD23	3:Ba:220:GLN:HG2	1.87	0.56
10:Hb:29:ASN:OD1	10:Hb:30:SER:N	2.39	0.56
33:gb:153:GLN:OE1	33:gb:155:ARG:NH1	2.37	0.56
46:Jy:20:ASN:OD1	46:Jy:21:ILE:N	2.39	0.56
1:a:196:G:O6	11:j:141:ARG:NH2	2.36	0.56
1:a:753:A:O4'	7:f:221:ARG:NH2	2.39	0.56
39:Fa:143:GLU:OE1	39:Fa:144:LYS:NZ	2.34	0.56
51:A:39:TRP:O	51:A:114:VAL:HG12	2.05	0.56
1:2b:629:U:O4'	78:1b:846:A:O4'	2.24	0.56
1:2b:1487:A:OP2	6:Db:8:LYS:NZ	2.38	0.56
1:2b:1594:G:OP2	1:2b:1596:C:N4	2.39	0.56
15:Mb:48:SER:HB3	15:Mb:122:VAL:HG23	1.86	0.56
20:Sb:90:ASN:N	20:Sb:96:LYS:O	2.39	0.56
32:fb:133:ALA:N	32:fb:140:TYR:O	2.38	0.56
41:Ey:31:ARG:NH1	67:fy:107:ILE:O	2.38	0.56
64:cy:75:ASN:O	64:cy:79:THR:HG23	2.05	0.56
68:gy:94:LEU:O	68:gy:97:GLU:N	2.38	0.56
1:a:1595:U:OP1	30:4:32:ARG:N	2.38	0.56
9:h:126:ASP:N	58:H:78:ALA:HA	2.17	0.56
9:h:161:GLU:HG2	9:h:170:THR:HG22	1.88	0.56
19:s:100:LEU:O	19:s:120:SER:N	2.39	0.56
78:Aa:688:G:H21	78:Aa:692:A:N6	2.04	0.56
78:Aa:983:A:O3'	42:Ia:101:LYS:NZ	2.35	0.56
78:Aa:1807:G:O2'	78:Aa:2559:U:O4	2.13	0.56
45:La:169:LYS:NZ	55:E:158:THR:O	2.35	0.56
47:Na:102:GLN:O	47:Na:104:ARG:NH1	2.39	0.56
50:Qa:10:ASP:OD1	50:Qa:11:GLY:N	2.39	0.56
64:N:94:GLU:OE1	64:N:95:ALA:N	2.39	0.56
80:ba:40:GLU:OE1	80:ba:104:ARG:NH1	2.39	0.56
1:2b:1472:C:C2	1:2b:1534:G:N2	2.74	0.56
8:Fb:93:LEU:O	8:Fb:96:SER:OG	2.14	0.56
10:Hb:81:LEU:HD23	10:Hb:84:LYS:HE3	1.87	0.56
16:Nb:6:SER:OG	16:Nb:7:ALA:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ub:96:PRO:O	22:Ub:100:VAL:HG23	2.06	0.56
24:Wb:116:ALA:HB1	24:Wb:121:VAL:O	2.05	0.56
46:Jy:96:PHE:CE2	46:Jy:160:VAL:HG12	2.41	0.56
54:Sy:83:SER:N	54:Sy:86:GLY:O	2.36	0.56
78:1b:3163:A:N6	78:1b:3288:G:O6	2.39	0.56
1:a:1066:C:O2'	3:c:148:ASN:OD1	2.20	0.56
8:g:37:GLN:OE1	8:g:37:GLN:N	2.38	0.56
8:g:52:GLU:N	8:g:131:GLN:OE1	2.38	0.56
22:v:95:ALA:HB1	22:v:99:ILE:HD11	1.88	0.56
46:Ma:92:ARG:N	46:Ma:95:ASN:OD1	2.38	0.56
54:D:169:SER:OG	54:D:170:THR:N	2.39	0.56
57:G:85:TRP:CZ2	57:G:93:LEU:HD11	2.40	0.56
1:2b:418:G:O2'	9:Gb:59:GLN:OE1	2.23	0.56
1:2b:1513:G:O2'	1:2b:1515:A:N3	2.26	0.56
19:Rb:60:ARG:O	19:Rb:63:LYS:C	2.49	0.56
39:Cy:266:THR:CG2	39:Cy:267:VAL:HG13	2.36	0.56
47:Ly:122:LYS:O	69:hb:120:ALA:N	2.39	0.56
48:My:41:GLN:O	48:My:41:GLN:NE2	2.38	0.56
78:1b:2213:A:H61	78:1b:2429:G:H1'	1.70	0.56
1:a:7:G:N7	5:d:205:ARG:NH2	2.51	0.56
1:a:380:U:OP2	1:a:381:C:N4	2.37	0.56
1:a:1484:G:H21	1:a:1606:C:H1'	1.71	0.56
2:b:36:TYR:OH	23:w:66:ASP:OD2	2.22	0.56
8:g:34:GLN:O	8:g:38:THR:OG1	2.14	0.56
15:n:36:LEU:HD11	15:n:101:ALA:C	2.31	0.56
78:Aa:1529:A:OP2	78:Aa:1592:G:N2	2.38	0.56
78:Aa:1689:U:O3'	53:C:59:SER:OG	2.24	0.56
78:Aa:2554:A:O5'	68:R:91:ARG:NH2	2.39	0.56
78:Aa:2677:G:H22	78:Aa:2680:A:H8	1.53	0.56
38:Ea:382:THR:O	38:Ea:383:LEU:HD23	2.05	0.56
45:La:167:LEU:HD23	45:La:168:SER:N	2.21	0.56
60:J:69:LYS:O	60:J:83:ASP:N	2.32	0.56
69:S:96:GLU:N	69:S:96:GLU:OE2	2.39	0.56
10:Hb:64:VAL:HG23	10:Hb:67:LEU:CB	2.36	0.56
16:Nb:41:ALA:O	16:Nb:44:GLY:N	2.34	0.56
24:Wb:17:ALA:O	24:Wb:20:THR:OG1	2.22	0.56
33:gb:93:ASP:OD1	33:gb:94:VAL:N	2.38	0.56
39:Cy:356:THR:O	39:Cy:360:LYS:N	2.37	0.56
43:Gy:158:ASP:OD1	43:Gy:158:ASP:N	2.38	0.56
48:My:125:LYS:NZ	78:1b:3259:U:O3'	2.29	0.56
52:Qy:16:ARG:NH1	52:Qy:53:PHE:O	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:Sy:48:LEU:HD12	55:Ty:151:LEU:HD13	1.88	0.56
78:1b:28:C:O2'	78:1b:61:A:N3	2.38	0.56
1:a:484:C:H42	1:a:503:G:H22	1.53	0.56
1:a:1597:A:H61	30:4:12:ARG:HD3	1.71	0.56
1:a:1676:U:OP1	11:j:44:HIS:ND1	2.39	0.56
8:g:68:ILE:HD13	18:r:114:ARG:NH1	2.21	0.56
12:k:119:ALA:O	12:k:124:HIS:ND1	2.39	0.56
4:q:126:VAL:HG22	4:q:127:ARG:H	1.70	0.56
24:x:57:ARG:NH2	29:2:26:GLN:OE1	2.39	0.56
33:7:211:ILE:HD11	33:7:225:LEU:HB2	1.88	0.56
78:Aa:1474:A:O2'	65:O:57:GLN:NE2	2.35	0.56
78:Aa:1558:A:O2'	59:I:34:LEU:HD12	2.06	0.56
78:Aa:1627:U:N3	78:Aa:1817:G:N1	2.54	0.56
78:Aa:3267:A:OP1	78:Aa:3268:A:N6	2.38	0.56
49:Pa:99:ARG:NH2	49:Pa:118:SER:O	2.39	0.56
1:2b:712:G:O6	1:2b:726:C:O2'	2.24	0.56
7:Eb:69:HIS:NE2	26:Yb:17:LEU:O	2.39	0.56
7:Eb:72:VAL:N	7:Eb:75:LYS:O	2.34	0.56
33:gb:79:TYR:HB3	33:gb:91:LEU:HD11	1.86	0.56
39:Cy:355:PHE:O	39:Cy:359:LEU:N	2.35	0.56
47:Ly:24:VAL:HG22	49:Ny:199:LEU:HB2	1.88	0.56
47:Ly:66:ASN:OD1	47:Ly:67:ARG:N	2.39	0.56
49:Ny:188:ARG:NH1	78:1b:31:C:OP2	2.33	0.56
70:ib:76:ARG:NH1	78:1b:293:C:O2'	2.34	0.56
1:a:190:C:N4	1:a:196:G:O6	2.39	0.56
7:f:9:LEU:HD13	7:f:30:ARG:HH11	1.70	0.56
78:Aa:338:A:OP1	39:Fa:48:GLN:N	2.38	0.56
78:Aa:727:G:O6	78:Aa:742:G:O2'	2.18	0.56
78:Aa:1185:C:OP2	48:Oa:42:LYS:NZ	2.38	0.56
41:Ha:58:LEU:HD21	41:Ha:64:LEU:HB2	1.87	0.56
44:Ka:91:ARG:NH2	44:Ka:141:LYS:O	2.35	0.56
44:Ka:173:ARG:NH2	74:X:125:LYS:O	2.39	0.56
60:J:59:VAL:HG23	60:J:60:ARG:HG2	1.87	0.56
5:Cb:81:MET:HE1	5:Cb:186:LYS:HB3	1.88	0.55
28:ab:74:CYS:SG	28:ab:77:CYS:N	2.73	0.55
33:gb:12:THR:O	33:gb:13:LEU:HD23	2.06	0.55
36:3b:56:G:N2	36:3b:62:C:O4'	2.38	0.55
39:Cy:360:LYS:NZ	78:1b:519:A:N7	2.53	0.55
48:My:14:LEU:O	48:My:19:ARG:NE	2.39	0.55
78:1b:439:C:O2'	78:1b:440:A:OP1	2.24	0.55
78:1b:1547:G:O2'	78:1b:1548:C:O5'	2.23	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:1b:1566:A:N1	78:1b:1571:A:N6	2.53	0.55
1:a:717:C:N4	1:a:720:G:H22	2.00	0.55
9:h:64:LYS:HZ2	9:h:82:SER:HG	1.53	0.55
78:Aa:1189:C:N4	78:Aa:1315:U:O2'	2.28	0.55
78:Aa:1646:G:O2'	78:Aa:1647:A:OP2	2.23	0.55
78:Aa:2807:U:O2'	78:Aa:2809:C:OP1	2.21	0.55
39:Fa:226:GLU:OE2	39:Fa:246:ARG:NH2	2.39	0.55
62:L:77:LYS:O	62:L:79:TRP:N	2.33	0.55
3:Ba:82:ARG:NH2	3:Ba:189:ILE:O	2.39	0.55
15:Mb:88:LEU:O	15:Mb:89:ILE:HD13	2.06	0.55
22:Ub:70:THR:OG1	22:Ub:72:ASN:O	2.15	0.55
36:3b:23:U:O4'	60:Yy:17:LYS:NZ	2.36	0.55
37:Ay:15:ILE:HG22	78:1b:822:G:H1'	1.89	0.55
37:Ay:33:ASP:OD1	37:Ay:34:TYR:N	2.38	0.55
39:Cy:188:ARG:NE	39:Cy:197:ARG:O	2.39	0.55
46:Jy:7:ASN:OD1	46:Jy:7:ASN:N	2.38	0.55
48:My:18:GLY:CA	48:My:72:LEU:HD12	2.36	0.55
53:Ry:106:LEU:HD21	53:Ry:138:LEU:HD21	1.88	0.55
55:Ty:39:ILE:HD12	55:Ty:102:ARG:HD3	1.88	0.55
62:ay:104:THR:O	62:ay:107:ALA:HB3	2.05	0.55
70:ib:72:VAL:O	70:ib:76:ARG:N	2.36	0.55
1:a:580:A:O2'	1:a:582:U:OP2	2.23	0.55
8:g:143:ARG:NH2	34:3:57:MET:HE1	2.22	0.55
26:z:15:ASN:OD1	26:z:18:LEU:N	2.36	0.55
29:2:78:SER:OG	29:2:80:ARG:NH1	2.38	0.55
78:Aa:1594:A:P	68:R:36:LYS:HZ3	2.28	0.55
78:Aa:2736:A:OP1	55:E:92:ARG:NH1	2.39	0.55
78:Aa:3041:U:OP1	57:G:12:ARG:NH1	2.39	0.55
78:Aa:3216:G:O6	78:Aa:3259:U:O2'	2.09	0.55
38:Ea:46:PHE:CZ	38:Ea:84:VAL:HG13	2.40	0.55
39:Fa:156:LEU:HD12	39:Fa:159:ILE:HD12	1.87	0.55
40:Ga:90:HIS:NE2	40:Ga:229:ASP:OD2	2.38	0.55
44:Ka:1:MET:HE2	44:Ka:3:TYR:CD2	2.41	0.55
1:2b:1610:G:OP1	8:Fb:72:HIS:NE2	2.35	0.55
33:gb:144:LEU:C	33:gb:145:LEU:HD22	2.32	0.55
33:gb:244:ALA:O	33:gb:252:LEU:HD12	2.07	0.55
36:3b:151:C:H42	78:1b:2585:G:P	2.30	0.55
37:Ay:184:ARG:NH2	77:pb:14:TYR:OH	2.38	0.55
38:By:103:THR:OG1	38:By:151:ILE:HD11	2.06	0.55
39:Cy:118:LYS:NZ	78:1b:681:U:O4	2.38	0.55
41:Ey:18:LEU:HD22	78:1b:591:G:C2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:Ny:119:TYR:OH	49:Ny:131:GLU:OE1	2.10	0.55
53:Ry:121:HIS:ND1	78:1b:1719:G:OP2	2.33	0.55
57:Vy:17:LEU:HD21	57:Vy:98:ASN:HD22	1.71	0.55
60:Yy:54:ASP:OD1	60:Yy:110:HIS:N	2.38	0.55
76:ob:84:THR:C	76:ob:85:LEU:HD12	2.31	0.55
78:1b:2273:G:O2'	78:1b:2311:G:O6	2.18	0.55
1:a:1285:U:O2'	1:a:1286:U:OP1	2.22	0.55
1:a:1797:A:N7	28:1:87:ARG:NH1	2.55	0.55
7:f:44:LEU:HD21	7:f:84:ALA:HB2	1.88	0.55
9:h:47:GLY:C	58:H:74:LYS:HB2	2.32	0.55
22:v:33:GLN:OE1	22:v:33:GLN:N	2.39	0.55
28:1:3:LYS:NZ	28:1:8:ASN:OD1	2.36	0.55
31:5:37:ARG:O	31:5:41:THR:HG23	2.07	0.55
78:Aa:43:A:C8	78:Aa:2802:A:N6	2.74	0.55
78:Aa:533:A:O2'	78:Aa:535:G:OP2	2.23	0.55
78:Aa:1419:A:H5''	39:Fa:193:LYS:HZ3	1.70	0.55
78:Aa:1619:A:C2	78:Aa:1825:G:N1	2.75	0.55
40:Ga:122:VAL:HG12	40:Ga:124:GLU:H	1.71	0.55
40:Ga:184:ASP:O	40:Ga:188:GLU:N	2.40	0.55
47:Na:93:ILE:HG22	47:Na:94:GLY:H	1.71	0.55
51:A:84:PRO:O	51:A:88:VAL:HG23	2.06	0.55
80:ba:44:GLU:OE2	80:ba:104:ARG:NE	2.38	0.55
79:8:74:C:O2'	79:8:75:C:O5'	2.19	0.55
1:2b:656:G:O6	1:2b:679:U:C2	2.59	0.55
15:Mb:33:ARG:O	15:Mb:37:VAL:HG23	2.06	0.55
37:Ay:200:ARG:NH2	78:1b:2186:U:OP2	2.36	0.55
40:Dy:54:ARG:NH1	40:Dy:147:ASP:O	2.39	0.55
51:Py:105:LYS:HB2	51:Py:107:LEU:HD13	1.89	0.55
78:1b:848:A:O2'	78:1b:849:C:OP1	2.23	0.55
78:1b:2305:G:OP2	78:1b:2305:G:N2	2.35	0.55
78:1b:3023:U:OP2	78:1b:3031:G:N1	2.36	0.55
1:a:337:G:H1	1:a:341:A:N6	2.02	0.55
1:a:497:G:O2'	1:a:498:G:O4'	2.23	0.55
6:e:17:PHE:CE1	6:e:21:LEU:HD11	2.41	0.55
25:y:57:LEU:HD13	31:5:4:VAL:HG21	1.88	0.55
33:7:172:ALA:HB2	33:7:202:LEU:HD22	1.87	0.55
78:Aa:520:U:O2	42:Ia:67:ARG:NH2	2.39	0.55
78:Aa:2775:U:O3'	78:Aa:2777:G:N2	2.39	0.55
78:Aa:3043:C:OP1	57:G:45:ARG:NE	2.35	0.55
38:Ea:58:ARG:NH2	38:Ea:352:GLU:OE2	2.39	0.55
38:Ea:93:VAL:HG22	38:Ea:102:LEU:HD22	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Ea:115:LYS:NZ	38:Ea:127:LYS:O	2.39	0.55
38:Ea:294:GLY:O	38:Ea:359:ILE:HD12	2.07	0.55
1:2b:142:G:OP2	9:Gb:139:ASN:ND2	2.39	0.55
1:2b:1273:G:H4'	1:2b:1274:C:H3'	1.89	0.55
1:2b:1487:A:OP1	30:db:34:TYR:OH	2.25	0.55
6:Db:12:VAL:O	6:Db:16:VAL:HG23	2.06	0.55
29:bb:52:THR:O	29:bb:54:VAL:HG23	2.07	0.55
32:fb:105:TYR:O	32:fb:117:LEU:HD12	2.05	0.55
51:Py:110:THR:HG23	51:Py:111:LYS:HD3	1.87	0.55
70:ib:70:ARG:O	70:ib:73:ALA:N	2.40	0.55
78:1b:267:G:C6	78:1b:319:A:N7	2.75	0.55
3:c:89:ASP:OD1	3:c:90:GLU:N	2.39	0.55
5:d:56:ILE:HG23	5:d:61:LEU:HD12	1.88	0.55
78:Aa:149:U:OP2	49:Pa:49:ARG:NH1	2.36	0.55
78:Aa:2204:C:O2'	78:Aa:2205:U:O5'	2.21	0.55
39:Fa:292:SER:OG	39:Fa:295:ILE:HD13	2.07	0.55
44:Ka:13:PRO:HD2	44:Ka:16:VAL:HG21	1.89	0.55
1:2b:486:G:C2	1:2b:501:U:O2	2.59	0.55
1:2b:1556:A:O2'	1:2b:1557:U:O5'	2.25	0.55
6:Db:59:LEU:HD23	6:Db:66:ILE:HG13	1.89	0.55
9:Gb:10:ASN:ND2	9:Gb:125:THR:O	2.38	0.55
9:Gb:145:PHE:HB3	9:Gb:147:LEU:HD21	1.88	0.55
25:Xb:12:ALA:O	25:Xb:15:LEU:N	2.33	0.55
29:bb:33:LEU:N	29:bb:46:VAL:O	2.38	0.55
31:eb:14:VAL:O	31:eb:18:THR:HG23	2.06	0.55
39:Cy:92:ASN:N	39:Cy:92:ASN:OD1	2.36	0.55
47:Ly:63:VAL:HG22	62:ay:128:ARG:NH1	2.22	0.55
50:Oy:8[A]:VAL:HG22	50:Oy:34[A]:VAL:HG11	1.87	0.55
60:Yy:72:SER:OG	60:Yy:73:VAL:N	2.40	0.55
62:ay:138:ILE:O	62:ay:141:ALA:N	2.39	0.55
68:gy:91:ARG:NH2	78:1b:2554:A:OP1	2.39	0.55
78:1b:111:C:OP2	78:1b:156:G:N2	2.38	0.55
78:1b:595:G:N2	78:1b:609:G:O4'	2.40	0.55
3:c:71:ALA:N	3:c:79:HIS:O	2.40	0.55
8:g:76:ARG:O	8:g:79:ASN:ND2	2.39	0.55
8:g:220:VAL:O	8:g:223:SER:OG	2.19	0.55
15:n:30:VAL:O	15:n:34:THR:HG23	2.07	0.55
78:Aa:359:U:O3'	71:U:25:ARG:NH1	2.35	0.55
78:Aa:514:G:H21	39:Fa:341:SER:HA	1.71	0.55
78:Aa:1727:G:O2'	78:Aa:1731:A:O4'	2.22	0.55
36:Ca:71:A:O2'	36:Ca:83:C:O2	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:Da:180:LEU:CD1	77:aa:26:VAL:HG21	2.37	0.55
41:Ha:28:GLN:OE1	41:Ha:57:HIS:NE2	2.39	0.55
1:2b:568:G:HO2'	1:2b:583:C:HO2'	1.54	0.55
1:2b:639:U:O2'	1:2b:640:U:OP2	2.19	0.55
1:2b:930:A:OP2	1:2b:931:C:N4	2.37	0.55
37:Ay:159:SER:OG	37:Ay:161:ASP:N	2.39	0.55
38:By:153:LYS:NZ	78:1b:3241:G:OP2	2.33	0.55
49:Ny:15:GLN:NE2	78:1b:294:U:OP1	2.36	0.55
52:Qy:149:ALA:O	52:Qy:152:HIS:N	2.36	0.55
71:jb:55:ARG:NH1	78:1b:353:G:O6	2.40	0.55
78:1b:2206:G:O2'	78:1b:2208:A:N6	2.39	0.55
78:1b:2446:U:O2'	78:1b:2447:A:OP1	2.23	0.55
1:a:246:G:N2	14:m:38:ALA:O	2.32	0.55
1:a:1597:A:N1	30:4:14:TYR:C	2.65	0.55
78:Aa:1150:A:O3'	67:Q:21:ARG:NH2	2.40	0.55
78:Aa:1630:U:O2'	78:Aa:1812:G:N2	2.25	0.55
78:Aa:1925:U:O2'	78:Aa:1927:G:N7	2.38	0.55
78:Aa:2947:G:OP1	78:Aa:2982:A:N6	2.32	0.55
78:Aa:2966:G:O2'	78:Aa:2967:A:O4'	2.18	0.55
43:Ja:50:VAL:HG22	59:I:30:ALA:HA	1.87	0.55
48:Oa:27:GLN:N	48:Oa:27:GLN:OE1	2.38	0.55
1:2b:1429:G:N3	22:Ub:72:ASN:ND2	2.55	0.55
20:Sb:23:ASP:OD1	20:Sb:24:GLY:N	2.40	0.55
33:gb:177:MET:N	33:gb:199:ILE:HD11	2.20	0.55
37:Ay:191:LEU:HD11	78:1b:1794:G:H4'	1.88	0.55
52:Qy:64:VAL:HG13	52:Qy:88:THR:O	2.07	0.55
1:a:187:G:OP2	11:j:142:LYS:NZ	2.40	0.55
1:a:1683:C:N4	1:a:1719:A:H61	2.05	0.55
78:Aa:688:G:N2	78:Aa:692:A:H62	2.05	0.55
78:Aa:1222:G:N2	78:Aa:1285:G:O2'	2.39	0.55
78:Aa:2112:U:O2'	78:Aa:2113:A:OP2	2.21	0.55
78:Aa:2340:U:OP1	38:Ea:236:LYS:NZ	2.30	0.55
78:Aa:2888:U:O2'	78:Aa:2910:A:N6	2.40	0.55
78:Aa:3160:U:C2	78:Aa:3291:G:N1	2.75	0.55
42:Ia:185:ILE:O	42:Ia:189:ILE:HG22	2.07	0.55
1:2b:827:C:N3	1:2b:846:G:C6	2.75	0.55
4:Pb:37:ALA:O	4:Pb:42:ARG:NH1	2.40	0.55
13:Kb:72:GLY:O	13:Kb:76:LEU:N	2.36	0.55
47:Ly:43:ALA:HB2	47:Ly:51:LEU:HD13	1.89	0.55
61:Zy:83:THR:HG22	68:gy:93:PHE:CE1	2.42	0.55
73:lb:28:ARG:O	73:lb:33:ASN:ND2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:55:A:OP1	26:z:112:LYS:NZ	2.35	0.55
1:a:153:G:OP1	9:h:15:THR:OG1	2.24	0.55
1:a:333:A:N6	11:j:27:PHE:O	2.38	0.55
1:a:484:C:O2'	1:a:485:A:OP1	2.23	0.55
1:a:1505:A:O2'	1:a:1562:G:N2	2.39	0.55
2:b:103:THR:OG1	2:b:106:SER:OG	2.24	0.55
16:o:113:PHE:CE1	16:o:117:LEU:HD11	2.42	0.55
34:3:25:VAL:HG11	34:3:66:LEU:HD13	1.88	0.55
78:Aa:1260:A:O2'	78:Aa:1261:G:O4'	2.17	0.55
78:Aa:1864:A:OP1	53:C:83:GLY:N	2.38	0.55
78:Aa:3315:G:H5'	38:Ea:174:LYS:HZ2	1.72	0.55
35:Bb:69:C:N4	35:Bb:110:G:O6	2.40	0.55
63:M:32:LEU:O	63:M:40:ARG:NH1	2.40	0.55
65:O:41:LYS:O	65:O:45:GLY:HA2	2.07	0.55
69:S:70:TYR:O	69:S:76:GLN:NE2	2.39	0.55
72:V:43:PHE:CZ	72:V:65:LEU:HD23	2.41	0.55
1:2b:1158:C:O2'	1:2b:1581:C:OP2	2.24	0.55
20:Sb:16:ARG:NH2	20:Sb:19:ASN:OD1	2.30	0.55
29:bb:48:SER:HG	29:bb:49:HIS:CE1	2.25	0.55
38:By:217:ALA:N	38:By:277:SER:O	2.39	0.55
45:Iy:77:THR:HG23	45:Iy:82:ARG:HA	1.89	0.55
51:Py:131:ARG:HE	78:1b:880:G:P	2.30	0.55
52:Qy:6:THR:HG21	78:1b:1103:A:N6	2.21	0.55
64:cy:26:GLY:O	64:cy:30:THR:OG1	2.19	0.55
77:pb:42:CYS:SG	77:pb:57:CYS:SG	3.01	0.55
12:k:107:ARG:NH2	12:k:148:VAL:O	2.40	0.55
16:o:74:ILE:O	16:o:78:ASN:ND2	2.36	0.55
29:2:21:LEU:HD23	29:2:26:GLN:HB2	1.88	0.55
78:Aa:407:A:OP2	36:Ca:16:G:N2	2.38	0.55
78:Aa:900:G:C4	78:Aa:1589:A:N6	2.74	0.55
78:Aa:2882:U:O2'	38:Ea:263:SER:OG	2.18	0.55
42:Ia:57:THR:O	42:Ia:61:ASN:ND2	2.39	0.55
44:Ka:92:TYR:CZ	44:Ka:101:VAL:HG21	2.41	0.55
1:2b:1060:U:H3'	1:2b:1061:A:H5''	1.89	0.54
1:2b:1163:A:O2'	1:2b:1164:G:OP1	2.21	0.54
1:2b:1304:G:OP2	1:2b:1305:U:O2'	2.25	0.54
1:2b:1390:U:O2'	1:2b:1391:A:O5'	2.22	0.54
2:Ab:117:GLU:OE2	5:Cb:39:THR:HG22	2.07	0.54
3:Ba:66:VAL:HG23	17:Ob:33:LEU:O	2.07	0.54
8:Fb:133:VAL:O	8:Fb:136:ALA:HB3	2.08	0.54
14:Lb:2:SER:O	14:Lb:3:THR:OG1	2.12	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:Nb:44:GLY:C	16:Nb:45:LEU:HD23	2.31	0.54
16:Nb:75:LEU:O	16:Nb:79:GLY:N	2.41	0.54
25:Xb:69:ARG:NH2	25:Xb:116:ASP:OD2	2.40	0.54
28:ab:75:VAL:O	28:ab:78:ALA:N	2.37	0.54
35:4b:46:A:O5'	40:Dy:158:ARG:NH1	2.40	0.54
38:By:187:SER:O	38:By:190:GLU:N	2.40	0.54
60:Yy:112:ASP:OD1	60:Yy:113:LYS:N	2.40	0.54
1:a:1257:U:OP1	13:l:5:LYS:NZ	2.40	0.54
1:a:1555:A:N3	30:4:11:PRO:HB2	2.22	0.54
15:n:27:ALA:O	15:n:31:VAL:HG23	2.07	0.54
17:p:31:THR:HG22	17:p:38:THR:HA	1.90	0.54
30:4:22:ARG:NH2	30:4:35:GLY:O	2.40	0.54
38:Ea:382:THR:C	38:Ea:383:LEU:HD23	2.32	0.54
40:Ga:17:GLN:OE1	55:E:22:HIS:N	2.40	0.54
46:Ma:17:LEU:HD21	46:Ma:79:ILE:HG21	1.89	0.54
50:Qa:171:LYS:O	50:Qa:175:THR:HG23	2.07	0.54
59:I:63:ILE:HD11	59:I:84:PHE:CD2	2.42	0.54
62:L:44:ASN:O	62:L:47:LYS:O	2.23	0.54
69:S:9:LEU:HD13	69:S:54:VAL:HG22	1.89	0.54
80:ba:29:GLY:HA2	80:ba:84:VAL:HG12	1.88	0.54
1:2b:278:U:OP1	1:2b:279:G:N2	2.40	0.54
1:2b:540:G:N3	1:2b:542:A:N7	2.55	0.54
6:Db:118:ALA:O	6:Db:122:VAL:HG23	2.07	0.54
17:Ob:126:THR:OG1	17:Ob:127:ARG:N	2.39	0.54
33:gb:221:MET:HG2	33:gb:233:THR:HG22	1.89	0.54
37:Ay:68:LYS:O	37:Ay:70:ARG:N	2.40	0.54
38:By:10:ARG:NH2	78:1b:2882:U:O3'	2.40	0.54
39:Cy:119:ARG:NE	78:1b:695:C:OP1	2.40	0.54
78:1b:2841:G:N2	78:1b:2847:A:H62	2.04	0.54
1:a:1058:U:O4	1:a:1061:A:C6	2.60	0.54
25:y:54:LEU:HD11	25:y:75:GLN:HB2	1.89	0.54
78:Aa:994:G:N2	78:Aa:1053:A:C4	2.75	0.54
78:Aa:1561:G:O2'	78:Aa:1562:C:OP2	2.23	0.54
26:Yb:37:LYS:O	26:Yb:40:LEU:N	2.40	0.54
33:gb:114:ASP:OD1	33:gb:115:ILE:N	2.40	0.54
38:By:212:ASN:OD1	38:By:354:VAL:N	2.39	0.54
42:Fy:196:LYS:NZ	78:1b:1100:U:O5'	2.40	0.54
43:Gy:155:ASN:ND2	43:Gy:180:VAL:O	2.40	0.54
46:Jy:18:VAL:O	46:Jy:19:LEU:HD23	2.07	0.54
48:My:55:ARG:NH1	54:Sy:70:THR:OG1	2.40	0.54
1:a:823:G:O6	1:a:850:A:C6	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:41:ARG:NH1	3:c:234:GLU:O	2.40	0.54
9:h:125:THR:N	58:H:78:ALA:O	2.40	0.54
10:i:38:LEU:HD21	10:i:77:LEU:HD21	1.89	0.54
10:i:173:TYR:O	10:i:177:THR:OG1	2.24	0.54
78:Aa:284:A:OP2	76:Z:41:ARG:NH1	2.41	0.54
78:Aa:785:G:O4'	52:B:92:ARG:NH1	2.41	0.54
78:Aa:1551:C:O2'	78:Aa:2170:U:O2'	2.05	0.54
47:Na:25:HIS:NE2	49:Pa:198:SER:OG	2.37	0.54
53:C:4:LEU:HD11	53:C:29:THR:OG1	2.08	0.54
1:2b:628:G:O2'	78:1b:846:A:O2'	2.25	0.54
7:Eb:157:ASN:OD1	7:Eb:222:LEU:HD21	2.08	0.54
9:Gb:145:PHE:CB	9:Gb:147:LEU:HD21	2.38	0.54
10:Hb:64:VAL:O	10:Hb:64:VAL:HG22	2.06	0.54
14:Lb:118:GLN:N	14:Lb:121:ASP:OD2	2.35	0.54
38:By:196:ARG:O	38:By:196:ARG:NH1	2.38	0.54
40:Dy:245:GLU:O	40:Dy:249:ALA:N	2.40	0.54
40:Dy:261:THR:N	40:Dy:264:GLN:OE1	2.40	0.54
45:Iy:44:ASP:OD2	45:Iy:185:ARG:NH2	2.41	0.54
61:Zy:116:LYS:O	61:Zy:119:GLU:N	2.41	0.54
1:a:278:U:O2	1:a:279:G:N2	2.40	0.54
1:a:513:U:O4'	12:k:131:GLN:NE2	2.41	0.54
12:k:163:PRO:O	12:k:166:GLY:N	2.40	0.54
78:Aa:837:A:H61	78:Aa:856:G:H1'	1.72	0.54
78:Aa:854:G:O6	77:aa:4:ARG:NH2	2.41	0.54
78:Aa:1065:A:O3'	63:M:28:LYS:NZ	2.36	0.54
41:Ha:97:ASN:O	41:Ha:99:GLU:N	2.40	0.54
47:Na:153:ASP:OD2	47:Na:157:ARG:NH2	2.40	0.54
49:Pa:119:TYR:OH	49:Pa:131:GLU:OE1	2.17	0.54
57:G:122:CYS:HG	57:G:126:TRP:CD1	2.25	0.54
62:L:82:ILE:O	62:L:87:ARG:NH2	2.39	0.54
1:2b:647:G:H22	1:2b:687:G:H1	1.55	0.54
1:2b:656:G:C6	1:2b:679:U:O2	2.61	0.54
1:2b:704:C:N4	1:2b:732:G:O2'	2.41	0.54
10:Hb:184:GLU:C	10:Hb:185:ILE:HD13	2.33	0.54
12:Jb:109:LEU:O	12:Jb:112:GLN:N	2.40	0.54
24:Wb:17:ALA:O	24:Wb:20:THR:N	2.40	0.54
38:By:100:ARG:NH2	78:1b:3244:A:OP2	2.34	0.54
45:Iy:134:ILE:HG22	45:Iy:135:ILE:N	2.23	0.54
53:Ry:55:VAL:HG13	78:1b:1873:U:H5''	1.90	0.54
53:Ry:114:LYS:NZ	78:1b:2093:A:N1	2.56	0.54
60:Yy:48:LEU:HD23	60:Yy:49:PRO:HD2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:1b:1922:A:H62	78:1b:1929:G:H21	1.55	0.54
1:a:110:U:OP1	1:a:754:A:O2'	2.26	0.54
1:a:1244:A:O5'	30:4:5:ASN:ND2	2.40	0.54
24:x:111:MET:HE1	24:x:121:VAL:HG21	1.89	0.54
34:3:25:VAL:HG21	34:3:66:LEU:HD22	1.88	0.54
78:Aa:1834:U:OP1	73:W:5:LYS:NZ	2.40	0.54
78:Aa:3356:G:HO2'	78:Aa:3357:U:P	2.30	0.54
40:Ga:105:ILE:O	40:Ga:109:THR:HG23	2.08	0.54
48:Oa:48:GLY:O	48:Oa:52:GLY:N	2.39	0.54
57:G:36:ILE:HG12	57:G:58:VAL:HG21	1.90	0.54
1:2b:115:G:OP1	14:Lb:67:ARG:NH2	2.38	0.54
1:2b:1445:G:C6	32:fb:91:ILE:HD11	2.42	0.54
9:Gb:48:TYR:OH	9:Gb:119:GLN:O	2.09	0.54
12:Jb:70:LEU:O	12:Jb:74:ASN:ND2	2.41	0.54
16:Nb:146:ALA:O	16:Nb:149:LEU:N	2.38	0.54
20:Sb:91:ASP:OD2	20:Sb:108:LYS:NZ	2.40	0.54
40:Dy:205:SER:HB3	40:Dy:236:LEU:HD23	1.88	0.54
44:Hy:38:LEU:O	44:Hy:41:ILE:HG22	2.07	0.54
44:Hy:41:ILE:CD1	44:Hy:67:ALA:HB1	2.31	0.54
45:Iy:96:VAL:HG12	45:Iy:97:LEU:N	2.23	0.54
50:Oy:141[A]:LEU:O	50:Oy:144[A]:SER:N	2.38	0.54
1:a:332:U:O4	11:j:172:ARG:NH2	2.40	0.54
7:f:189:LEU:HD12	7:f:190:GLY:H	1.72	0.54
35:Bb:32:U:O2'	35:Bb:41:G:N7	2.33	0.54
35:Bb:38:U:N3	35:Bb:41:G:OP2	2.38	0.54
44:Ka:67:ALA:O	44:Ka:71:VAL:HG23	2.08	0.54
45:La:58:GLU:O	45:La:129:VAL:HG12	2.07	0.54
69:S:85:THR:HG23	69:S:88:LEU:H	1.73	0.54
1:2b:968:U:H2'	1:2b:969:C:O4'	2.08	0.54
1:2b:1066:C:O2'	3:Ba:148:ASN:OD1	2.08	0.54
1:2b:1588:G:O6	1:2b:1608:U:O4	2.26	0.54
2:Ab:11:PRO:HB2	19:Rb:117:LEU:HD21	1.89	0.54
9:Gb:70:PRO:O	9:Gb:98:ARG:NH1	2.40	0.54
44:Hy:45:PHE:O	44:Hy:46:THR:OG1	2.20	0.54
50:Oy:126[A]:VAL:O	54:Sy:154:HIS:NE2	2.40	0.54
78:1b:141:C:O2'	78:1b:142:C:O4'	2.24	0.54
1:a:312:A:H61	1:a:353:A:H62	1.56	0.54
1:a:322:G:O2'	11:j:10:LYS:NZ	2.30	0.54
1:a:394:C:H42	1:a:401:A:H62	1.55	0.54
1:a:471:A:O2'	12:k:9:SER:O	2.23	0.54
1:a:647:G:H22	1:a:687:G:H1	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:968:U:O2	1:a:1103:U:O2'	2.25	0.54
1:a:1615:C:OP1	8:g:81:ARG:NH2	2.40	0.54
12:k:162:SER:O	12:k:164:PHE:N	2.40	0.54
29:2:54:VAL:O	29:2:63:LEU:N	2.41	0.54
78:Aa:785:G:N1	52:B:89:ASP:O	2.40	0.54
78:Aa:3005:A:N1	78:Aa:3140:G:O2'	2.40	0.54
38:Ea:65:SER:OG	38:Ea:66:LYS:N	2.40	0.54
38:Ea:206:ASP:OD2	38:Ea:287:LYS:NZ	2.41	0.54
38:Ea:336:VAL:HG12	38:Ea:337:THR:N	2.23	0.54
39:Fa:264:SER:N	39:Fa:267:VAL:O	2.37	0.54
44:Ka:31:ARG:NH2	44:Ka:83:THR:O	2.41	0.54
54:D:32:SER:O	54:D:32:SER:OG	2.22	0.54
54:D:162:THR:OG1	54:D:163:PHE:N	2.39	0.54
62:L:138:ILE:HG22	62:L:143:GLY:C	2.33	0.54
64:N:99:ASP:O	64:N:103:THR:HG23	2.08	0.54
1:2b:588:U:O2	31:eb:57:ASN:ND2	2.39	0.54
5:Cb:232:GLU:O	5:Cb:233:GLN:NE2	2.40	0.54
7:Eb:67:GLN:OE1	7:Eb:69:HIS:NE2	2.41	0.54
8:Fb:190:ILE:O	8:Fb:193:THR:OG1	2.25	0.54
11:Ib:50:GLY:O	11:Ib:52:ASN:ND2	2.41	0.54
13:Kb:77:ARG:O	13:Kb:81:ASN:N	2.40	0.54
24:Wb:106:THR:OG1	24:Wb:108:ALA:N	2.39	0.54
33:gb:64:HIS:ND1	33:gb:86:ASP:OD2	2.38	0.54
78:1b:962:A:N1	78:1b:2814:G:O2'	2.41	0.54
78:1b:3154:C:C2	78:1b:3157:U:N3	2.76	0.54
1:a:717:C:N3	1:a:720:G:N1	2.54	0.54
1:a:1576:A:O2'	79:8:40:C:O2'	2.12	0.54
1:a:1600:A:HO2'	1:a:1602:C:N4	2.04	0.54
11:j:80:GLY:O	11:j:103:GLN:N	2.34	0.54
12:k:77:ILE:O	12:k:81:VAL:HG23	2.08	0.54
4:q:17:TYR:N	4:q:20:VAL:O	2.41	0.54
29:2:38:PRO:HD3	29:2:77:THR:HG22	1.88	0.54
78:Aa:220:G:N7	78:Aa:1389:G:N1	2.56	0.54
78:Aa:412:G:N3	51:A:118:GLN:NE2	2.55	0.54
78:Aa:418:A:O2'	78:Aa:630:A:OP1	2.25	0.54
78:Aa:1793:C:OP2	37:Da:177:LYS:NZ	2.40	0.54
36:Ca:150:G:O2'	43:Ja:56:VAL:HG13	2.08	0.54
38:Ea:92:TYR:OH	38:Ea:180:GLU:OE2	2.21	0.54
39:Fa:145:ILE:O	39:Fa:147:GLU:N	2.41	0.54
50:Qa:108:ILE:HG22	50:Qa:157:GLU:OE2	2.08	0.54
64:N:70:PHE:CG	64:N:77:LEU:HD13	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:T:51:SER:N	70:T:54:GLU:OE1	2.38	0.54
71:U:3:LYS:O	71:U:7:SER:OG	2.26	0.54
2:Ab:163:ASN:OD1	2:Ab:166:GLY:N	2.40	0.54
15:Mb:73:LYS:HG2	32:fb:108:VAL:HG11	1.90	0.54
30:db:22:ARG:HG3	30:db:23:VAL:HG23	1.90	0.54
33:gb:242:SER:HB3	33:gb:255:ALA:HB3	1.90	0.54
35:4b:86:U:O2'	78:1b:1171:G:OP1	2.22	0.54
36:3b:55:U:C4	36:3b:62:C:N3	2.76	0.54
37:Ay:10:LYS:O	37:Ay:13:GLY:N	2.41	0.54
38:By:147:GLU:OE1	38:By:150:ARG:NH1	2.41	0.54
38:By:205:VAL:O	38:By:208:VAL:N	2.35	0.54
38:By:353:GLU:OE1	38:By:353:GLU:N	2.40	0.54
47:Ly:68:LYS:NZ	78:1b:699:A:OP1	2.35	0.54
68:gy:71:THR:HG22	68:gy:72:VAL:O	2.08	0.54
1:a:56:U:N3	1:a:92:A:O2'	2.41	0.54
1:a:319:U:OP1	11:j:11:ARG:NH2	2.40	0.54
16:o:151:ASN:OD1	64:N:79:THR:HG22	2.08	0.54
18:r:7:VAL:HG21	18:r:92:TYR:HA	1.90	0.54
18:r:95:LYS:O	33:7:59:ARG:NH2	2.41	0.54
23:w:9:VAL:HG22	23:w:10:GLU:H	1.71	0.54
23:w:65:SER:O	23:w:68:SER:OG	2.22	0.54
78:Aa:49:A:N1	49:Pa:187:ARG:NH1	2.56	0.54
78:Aa:2356:A:H61	78:Aa:2983:C:H42	1.53	0.54
42:Ia:172:ASN:O	42:Ia:175:LYS:NZ	2.28	0.54
46:Ma:156:LYS:O	46:Ma:160:VAL:HG23	2.07	0.54
49:Pa:121:VAL:HG11	49:Pa:131:GLU:HG3	1.90	0.54
59:I:63:ILE:HG23	59:I:63:ILE:O	2.08	0.54
70:T:40:VAL:O	70:T:44:VAL:HG23	2.08	0.54
2:Ab:7:PHE:O	2:Ab:54:TRP:NE1	2.41	0.54
3:Ba:54:LEU:H	3:Ba:54:LEU:HD23	1.73	0.54
22:Ub:20:ILE:HG21	22:Ub:95:ALA:O	2.07	0.54
22:Ub:26:LEU:CD2	22:Ub:114:VAL:HG13	2.37	0.54
39:Cy:209:TYR:O	39:Cy:230:VAL:HG23	2.08	0.54
48:My:77:ARG:HE	78:1b:525:C:P	2.31	0.54
52:Qy:158:HIS:H	52:Qy:186:VAL:HG11	1.73	0.54
53:Ry:60:LYS:O	53:Ry:63:THR:N	2.41	0.54
69:hb:118:ILE:HG23	69:hb:118:ILE:O	2.07	0.54
1:a:74:U:C5	58:H:116:LYS:HG2	2.43	0.54
5:d:133:LYS:O	5:d:136:VAL:HG13	2.08	0.54
5:d:158:THR:HG21	5:d:221:THR:HG22	1.90	0.54
11:j:77:ARG:NH2	11:j:105:ASP:OD2	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:269:G:OP2	49:Pa:44:ARG:NH2	2.36	0.54
35:Bb:13:A:N3	40:Ga:24:ARG:NH2	2.56	0.54
37:Da:46:LYS:NZ	68:R:46:ASP:OD1	2.37	0.54
59:I:58:ASP:OD1	59:I:60:TYR:N	2.40	0.54
59:I:105:VAL:HG13	59:I:130:TYR:CG	2.43	0.54
1:2b:1615:C:HO2'	1:2b:1616:G:P	2.25	0.53
15:Mb:30:VAL:HG21	15:Mb:132:GLU:HG2	1.90	0.53
25:Xb:19:ARG:O	25:Xb:22:ASN:N	2.41	0.53
47:Ly:39:ARG:NH2	78:1b:685:G:OP1	2.41	0.53
78:1b:348:A:N3	78:1b:352:A:O2'	2.40	0.53
78:1b:1256:G:H1	78:1b:1261:G:H22	1.56	0.53
1:a:886:U:O2	17:p:123:SER:N	2.39	0.53
1:a:1349:G:H21	1:a:1379:C:H42	1.56	0.53
11:j:138:ASN:OD1	11:j:139:ALA:N	2.41	0.53
28:l:23:CYS:O	28:l:27:SER:HA	2.07	0.53
37:Da:242:ARG:NH2	37:Da:243:THR:O	2.41	0.53
50:Qa:126:VAL:O	54:D:154:HIS:NE2	2.41	0.53
6:Db:67:ASN:O	6:Db:70:THR:OG1	2.25	0.53
9:Gb:2:LYS:C	9:Gb:3:LEU:HD23	2.33	0.53
40:Dy:187:THR:O	40:Dy:189:GLU:N	2.41	0.53
78:1b:649:A:OP2	78:1b:2868:U:O2'	2.21	0.53
78:1b:2838:A:H62	78:1b:2850:G:H21	1.56	0.53
1:a:114:C:O2'	14:m:65:SER:OG	2.20	0.53
2:b:9:LEU:O	2:b:10:THR:OG1	2.26	0.53
78:Aa:2724:U:OP2	78:Aa:2726:C:N4	2.38	0.53
38:Ea:119:TYR:OH	38:Ea:128:LYS:N	2.42	0.53
38:Ea:206:ASP:OD1	38:Ea:207:SER:N	2.41	0.53
44:Ka:46:THR:O	44:Ka:53:ILE:HG23	2.09	0.53
48:Oa:120:VAL:CG2	50:Qa:197:LEU:HD13	2.39	0.53
1:2b:154:G:OP1	9:Gb:2:LYS:NZ	2.42	0.53
1:2b:291:G:N2	1:2b:292:U:O4	2.41	0.53
3:Ba:212:VAL:HG13	3:Ba:213:ARG:N	2.23	0.53
19:Rb:60:ARG:O	19:Rb:63:LYS:O	2.27	0.53
33:gb:112:SER:OG	33:gb:113:VAL:N	2.40	0.53
41:Ey:164:SER:OG	67:fy:6:ARG:N	2.41	0.53
62:ay:144:VAL:HG22	62:ay:145:VAL:N	2.24	0.53
77:pb:2:ALA:HB2	78:1b:853:G:O6	2.08	0.53
1:a:1534:G:OP2	20:t:57:ARG:NH1	2.41	0.53
5:d:90:THR:OG1	5:d:93:GLY:N	2.31	0.53
13:l:3:MET:HE1	13:l:45:ALA:CA	2.39	0.53
78:Aa:2297:U:O2'	78:Aa:2298:U:O5'	2.20	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:2572:C:O2'	78:Aa:2573:G:OP2	2.22	0.53
78:Aa:3087:A:O2'	78:Aa:3375:A:N1	2.35	0.53
37:Da:36:GLU:OE2	37:Da:163:ARG:NH1	2.40	0.53
57:G:6:ALA:HB2	57:G:126:TRP:CZ2	2.44	0.53
1:2b:979:A:N3	1:2b:1775:U:O2'	2.41	0.53
38:By:195:ALA:O	38:By:198:HIS:N	2.42	0.53
41:Ey:162:SER:OG	41:Ey:163:PHE:N	2.38	0.53
45:Iy:170:LYS:NZ	45:Iy:175:ASN:O	2.42	0.53
48:My:69:THR:HG22	48:My:70:PHE:N	2.22	0.53
53:Ry:21:LYS:NZ	78:1b:1873:U:OP1	2.42	0.53
70:ib:45:ARG:NE	70:ib:49:GLY:O	2.42	0.53
78:1b:1003:A:H61	78:1b:1049:C:H1'	1.72	0.53
1:a:1146:G:O2'	5:d:90:THR:O	2.21	0.53
6:e:105:MET:HE2	6:e:122:VAL:HG21	1.90	0.53
22:v:35:GLU:OE2	22:v:89:ARG:NH2	2.42	0.53
33:7:266:ASP:N	33:7:266:ASP:OD1	2.42	0.53
78:Aa:2284:C:N4	78:Aa:2308:C:OP2	2.41	0.53
78:Aa:2427:U:C2	78:Aa:2603:G:N1	2.77	0.53
38:Ea:36:ASP:OD1	38:Ea:38:SER:OG	2.22	0.53
62:L:87:ARG:O	62:L:91:LEU:HD23	2.08	0.53
77:aa:7:LYS:O	77:aa:27:LYS:NZ	2.38	0.53
1:2b:1541:G:H21	1:2b:1570:A:H62	1.56	0.53
5:Cb:99:LYS:HA	5:Cb:117:THR:HG22	1.89	0.53
12:Jb:107:ARG:NH1	12:Jb:153:GLU:OE2	2.36	0.53
20:Sb:26:ILE:HD11	20:Sb:31:ALA:HA	1.90	0.53
33:gb:224:ASN:O	33:gb:228:LYS:N	2.41	0.53
39:Cy:329:PRO:HB2	42:Fy:45:LEU:HD13	1.89	0.53
44:Hy:1:MET:HE1	54:Sy:138:GLN:HG3	1.91	0.53
65:dy:80:ASN:OD1	65:dy:81:GLU:N	2.41	0.53
1:a:459:G:OP1	26:z:109:LYS:NZ	2.41	0.53
1:a:539:G:N3	1:a:540:G:N1	2.56	0.53
1:a:1485:C:O4'	1:a:1606:C:O2'	2.27	0.53
18:r:69:VAL:O	18:r:70:THR:HG23	2.08	0.53
78:Aa:210:U:OP2	39:Fa:162:THR:N	2.42	0.53
78:Aa:1220:U:O2	78:Aa:1222:G:N1	2.42	0.53
78:Aa:1385:C:O2'	41:Ha:2:SER:N	2.35	0.53
78:Aa:2666:C:OP2	78:Aa:2687:G:N1	2.41	0.53
37:Da:13:GLY:O	37:Da:16:PHE:N	2.42	0.53
46:Ma:54:VAL:HG11	46:Ma:57:PHE:CD2	2.44	0.53
48:Oa:19:ARG:HA	48:Oa:69:THR:HG23	1.89	0.53
49:Pa:46:ASP:N	49:Pa:46:ASP:OD1	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:628:G:N2	1:2b:970:A:OP2	2.39	0.53
3:Ba:71:ALA:HB3	17:Ob:114:ARG:HH12	1.74	0.53
3:Ba:76:SER:OG	3:Ba:78:ASP:N	2.40	0.53
5:Cb:38:VAL:O	5:Cb:38:VAL:HG13	2.07	0.53
11:Ib:153:GLU:OE2	11:Ib:156:VAL:HG23	2.08	0.53
16:Nb:30:SER:O	16:Nb:34:ILE:N	2.36	0.53
50:Oy:87[A]:MET:HE2	78:1b:1174:G:N2	2.24	0.53
54:Sy:154:HIS:ND1	78:1b:3186:A:OP1	2.38	0.53
70:ib:45:ARG:O	70:ib:49:GLY:N	2.39	0.53
78:1b:441:U:N3	78:1b:493:U:O2'	2.37	0.53
1:a:776:G:O6	26:z:11:LYS:NZ	2.42	0.53
1:a:1415:U:OP1	19:s:45:ARG:NH1	2.41	0.53
1:a:1459:C:OP1	20:t:126:ARG:NH1	2.40	0.53
14:m:116:ARG:NH1	14:m:117:VAL:O	2.41	0.53
16:o:129:TYR:HA	16:o:132:VAL:HG22	1.90	0.53
78:Aa:28:C:OP1	49:Pa:192:LYS:NZ	2.38	0.53
78:Aa:370:U:O4	78:Aa:374:A:N7	2.41	0.53
78:Aa:1278:A:OP2	78:Aa:1279:C:N4	2.41	0.53
78:Aa:2362:C:HO2'	78:Aa:2363:A:P	2.31	0.53
39:Fa:162:THR:OG1	39:Fa:218:ALA:O	2.19	0.53
40:Ga:278:SER:O	40:Ga:282:ARG:NE	2.39	0.53
66:P:79:VAL:HG13	66:P:111:ARG:HG2	1.91	0.53
69:S:17:LEU:CB	69:S:58:ILE:HD11	2.39	0.53
1:2b:235:G:H2'	1:2b:237:C:H41	1.74	0.53
1:2b:396:G:N7	11:Ib:47:ARG:NH2	2.53	0.53
6:Db:85:VAL:O	6:Db:86:LEU:HD12	2.07	0.53
38:By:118:PHE:O	78:1b:3000:A:O2'	2.27	0.53
39:Cy:212:ASP:OD1	39:Cy:213:ASN:N	2.42	0.53
52:Qy:131:ALA:HB1	52:Qy:135:GLN:N	2.23	0.53
53:Ry:10:LEU:HD23	53:Ry:41:ILE:HG13	1.91	0.53
59:Xy:29:SER:HG	59:Xy:31:THR:HG1	1.53	0.53
1:a:447:U:O2'	7:f:27:TYR:O	2.26	0.53
3:c:183:GLN:OE1	3:c:183:GLN:N	2.41	0.53
12:k:70:LEU:O	12:k:74:ASN:ND2	2.42	0.53
21:u:93:HIS:O	21:u:94:ILE:HD13	2.09	0.53
26:z:23:PHE:CE2	26:z:75:VAL:HG23	2.44	0.53
78:Aa:200:C:OP2	60:J:60:ARG:NH1	2.42	0.53
78:Aa:267:G:C6	78:Aa:319:A:N7	2.76	0.53
78:Aa:950:G:N2	78:Aa:1368:U:OP2	2.37	0.53
78:Aa:1347:U:H2'	78:Aa:1355:A:H61	1.74	0.53
78:Aa:2111:G:N2	58:H:39:LEU:HD11	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:2219:A:OP1	70:T:68:ARG:NH2	2.41	0.53
78:Aa:2767:U:O2'	76:Z:31:GLY:N	2.38	0.53
78:Aa:3049:A:C2	38:Ea:75:ALA:HB2	2.43	0.53
39:Fa:334:PHE:HA	39:Fa:339:LEU:HD21	1.91	0.53
41:Ha:104:GLU:HA	41:Ha:107:ALA:HB2	1.91	0.53
45:La:63:GLU:OE1	45:La:63:GLU:N	2.38	0.53
1:2b:570:A:N6	25:Xb:116:ASP:OD1	2.32	0.53
1:2b:1696:G:C2	1:2b:1706:C:O2	2.62	0.53
5:Cb:73:LEU:HD13	5:Cb:106:ASP:OD2	2.09	0.53
12:Jb:63:ASP:OD1	12:Jb:63:ASP:N	2.41	0.53
18:Qb:54:LEU:HD11	18:Qb:112:TYR:CD2	2.43	0.53
22:Ub:20:ILE:N	22:Ub:94:GLU:OE1	2.41	0.53
29:bb:48:SER:OG	29:bb:49:HIS:ND1	2.35	0.53
32:fb:139:LEU:HD13	32:fb:150:VAL:O	2.08	0.53
38:By:382:THR:C	38:By:383:LEU:HD23	2.34	0.53
43:Gy:83:ASP:OD1	43:Gy:85:ASN:N	2.40	0.53
44:Hy:3:TYR:O	44:Hy:60:GLY:N	2.38	0.53
48:My:94:TRP:O	48:My:97:SER:OG	2.19	0.53
52:Qy:16:ARG:NH1	78:1b:672:A:OP1	2.41	0.53
52:Qy:176:ARG:O	62:ay:51:GLY:N	2.41	0.53
60:Yy:10:SER:N	78:1b:336:A:OP1	2.33	0.53
66:ey:124:GLY:O	66:ey:126:LEU:HD12	2.08	0.53
1:a:1417:A:O3'	18:r:128:LYS:NZ	2.38	0.53
1:a:1775:U:OP2	75:Y:11:ARG:NH1	2.42	0.53
9:h:49:VAL:HG21	9:h:115:LYS:H	1.73	0.53
12:k:60:LEU:HD11	12:k:93:LEU:HB3	1.90	0.53
12:k:94:ASP:OD1	12:k:95:TYR:N	2.42	0.53
19:s:20:TYR:CZ	19:s:38:ILE:HD11	2.43	0.53
27:0:99:ALA:HB1	27:0:101:TYR:HE1	1.73	0.53
78:Aa:542:G:C2	78:Aa:549:U:O2	2.62	0.53
78:Aa:646:A:H61	78:Aa:2371:G:H21	1.57	0.53
78:Aa:1168:U:OP1	42:Ia:213:GLY:N	2.42	0.53
44:Ka:36:LYS:CE	44:Ka:78:MET:HE2	2.39	0.53
44:Ka:173:ARG:HB2	74:X:127:LEU:HD11	1.91	0.53
68:R:91:ARG:HG2	68:R:95:ILE:HD12	1.91	0.53
1:2b:1065:A:O2'	3:Ba:146:GLN:NE2	2.42	0.53
22:Ub:70:THR:OG1	22:Ub:72:ASN:OD1	2.27	0.53
25:Xb:134:ALA:O	25:Xb:138:GLU:N	2.42	0.53
29:bb:35:VAL:HG22	29:bb:79:PHE:CB	2.39	0.53
38:By:95:THR:OG1	38:By:98:GLY:N	2.41	0.53
49:Ny:106:VAL:O	49:Ny:109:ARG:N	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:Yy:45:ILE:HG22	60:Yy:46:LYS:H	1.73	0.53
69:hb:90:ARG:NH2	78:1b:20:A:OP2	2.42	0.53
78:1b:34:A:H62	78:1b:50:U:H3	1.55	0.53
78:1b:1463:U:O4	78:1b:1467:A:N7	2.42	0.53
1:a:930:A:OP1	28:1:32:LYS:NZ	2.41	0.53
1:a:981:U:C2'	1:a:982:U:H5'	2.39	0.53
1:a:1597:A:C5	30:4:13:ARG:O	2.61	0.53
1:a:1786:G:OP2	17:p:133:ARG:NH2	2.42	0.53
10:i:174:ASN:O	10:i:178:GLY:N	2.40	0.53
13:l:45:ALA:O	13:l:48:SER:OG	2.25	0.53
26:z:81:GLU:N	26:z:81:GLU:OE2	2.42	0.53
33:7:96:THR:HG23	33:7:98:GLU:HG2	1.91	0.53
78:Aa:1861:G:O6	78:Aa:1870:C:N4	2.42	0.53
39:Fa:37:THR:OG1	39:Fa:38:VAL:N	2.40	0.53
40:Ga:56:THR:OG1	40:Ga:59:ASP:N	2.41	0.53
67:Q:35:VAL:HG13	67:Q:40:ASP:HB3	1.91	0.53
1:2b:1118:G:OP1	75:nb:21:ARG:NH1	2.34	0.53
9:Gb:98:ARG:NH2	9:Gb:101:ILE:O	2.39	0.53
33:gb:7:LEU:HD23	33:gb:314:GLN:C	2.34	0.53
33:gb:220:ILE:O	33:gb:234:LEU:N	2.39	0.53
37:Ay:2:GLY:O	78:1b:925:A:N6	2.40	0.53
43:Gy:126:SER:O	78:1b:120:G:N2	2.38	0.53
46:Jy:22:SER:O	78:1b:2676:A:N6	2.42	0.53
65:dy:70:ARG:NH1	78:1b:3374:U:OP2	2.39	0.53
69:hb:24:LEU:O	69:hb:27:GLU:N	2.42	0.53
1:a:1:U:OP1	12:k:50:SER:OG	2.15	0.53
1:a:715:U:O4	1:a:723:G:O6	2.27	0.53
1:a:765:G:O6	12:k:82:ARG:NH2	2.42	0.53
1:a:817:A:O4'	10:i:110:GLN:NE2	2.42	0.53
6:e:42:THR:OG1	6:e:45:LYS:O	2.27	0.53
22:v:42:VAL:HG21	22:v:55:PRO:HD3	1.91	0.53
78:Aa:931:C:O2'	78:Aa:932:U:OP1	2.19	0.53
78:Aa:1807:G:O2'	78:Aa:2558:U:O4	2.27	0.53
78:Aa:2157:G:N1	78:Aa:2178:A:OP2	2.35	0.53
78:Aa:2725:U:OP2	78:Aa:2726:C:N4	2.39	0.53
35:Bb:28:C:O2	46:Ma:9:MET:HE1	2.08	0.53
37:Da:107:VAL:O	37:Da:139:HIS:NE2	2.40	0.53
39:Fa:308:LYS:O	39:Fa:310:THR:HG23	2.09	0.53
41:Ha:52:VAL:CG1	41:Ha:65:ILE:HG23	2.39	0.53
42:Ia:22:THR:O	42:Ia:26:VAL:HG13	2.09	0.53
44:Ka:1:MET:HE2	44:Ka:3:TYR:CE2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Fb:37:GLN:HA	18:Qb:53:LEU:HD22	1.91	0.52
15:Mb:43:ARG:NE	15:Mb:102:GLY:O	2.42	0.52
18:Qb:50:GLU:O	18:Qb:54:LEU:N	2.40	0.52
36:3b:71:A:O5'	60:Yy:51:ARG:NH1	2.42	0.52
49:Ny:93:LYS:O	78:1b:289:A:O2'	2.27	0.52
50:Oy:171[A]:LYS:NZ	78:1b:3180:A:OP1	2.41	0.52
59:Xy:34:LEU:HD13	78:1b:1558:A:O2'	2.09	0.52
76:ob:35:LEU:H	76:ob:35:LEU:HD12	1.73	0.52
78:1b:3028:G:O2'	78:1b:3029:A:O4'	2.23	0.52
78:1b:3154:C:N3	78:1b:3157:U:C4	2.77	0.52
1:a:1324:G:O2'	2:b:113:ARG:NH2	2.42	0.52
1:a:1796:C:O2'	28:1:95:ARG:NH1	2.35	0.52
7:f:112:HIS:CE1	7:f:237:SER:HG	2.23	0.52
10:i:45:SER:OG	10:i:46:ILE:N	2.42	0.52
11:j:67:TRP:HE3	11:j:72:ILE:HD11	1.74	0.52
15:n:108:ARG:O	15:n:110:GLY:N	2.42	0.52
33:7:209:THR:O	33:7:225:LEU:N	2.41	0.52
78:Aa:712:G:N2	78:Aa:754:G:O3'	2.42	0.52
78:Aa:1912:U:N3	78:Aa:2122:G:OP2	2.42	0.52
78:Aa:2948:C:OP1	38:Ea:244:ARG:NH2	2.33	0.52
36:Ca:40:A:C5	36:Ca:103:G:N2	2.77	0.52
39:Fa:31:ARG:O	39:Fa:35:VAL:HG23	2.09	0.52
40:Ga:282:ARG:O	40:Ga:286:VAL:HG23	2.09	0.52
52:B:179:ARG:N	52:B:184:PHE:O	2.40	0.52
55:E:126:VAL:HG23	55:E:127:GLN:H	1.74	0.52
1:2b:567:A:H61	1:2b:580:A:H61	1.57	0.52
1:2b:568:G:N7	25:Xb:69:ARG:NH1	2.52	0.52
1:2b:1483:A:N3	1:2b:1607:G:O2'	2.37	0.52
2:Ab:176:LEU:O	2:Ab:179:ARG:N	2.42	0.52
3:Ba:92:GLN:OE1	3:Ba:229:MET:HE1	2.09	0.52
12:Jb:133:HIS:O	12:Jb:134:ILE:HG23	2.09	0.52
16:Nb:83:GLU:HG2	16:Nb:84:ILE:HG23	1.91	0.52
33:gb:293:ALA:O	33:gb:301:LEU:HD12	2.09	0.52
38:By:2:SER:HB3	78:1b:2943:G:C8	2.44	0.52
39:Cy:283:THR:CG2	39:Cy:289:ILE:HD11	2.39	0.52
49:Ny:53:TYR:CE2	49:Ny:55:ALA:HB2	2.44	0.52
63:by:37:PRO:O	63:by:41:ARG:N	2.41	0.52
64:cy:103:THR:HG23	64:cy:104:LEU:HG	1.92	0.52
78:1b:494:G:N1	78:1b:619:A:C2	2.75	0.52
1:a:1173:C:OP1	20:t:132:ARG:NH2	2.41	0.52
1:a:1489:U:O2'	1:a:1490:C:OP2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1597:A:N3	30:4:14:TYR:HB3	2.24	0.52
5:d:170:ILE:O	5:d:196:VAL:HG23	2.09	0.52
11:j:57:ALA:HB2	11:j:177:GLY:HA2	1.92	0.52
78:Aa:2509:U:HO2'	78:Aa:2510:U:P	2.32	0.52
78:Aa:3195:U:HO2'	78:Aa:3197:G:N2	2.06	0.52
41:Ha:59:GLU:OE2	41:Ha:103:VAL:HG13	2.10	0.52
41:Ha:87:THR:OG1	41:Ha:89:THR:N	2.42	0.52
42:Ia:53:LYS:O	42:Ia:57:THR:HG23	2.08	0.52
49:Pa:4:TYR:HA	49:Pa:7:LEU:HD12	1.90	0.52
50:Qa:77:SER:OG	50:Qa:78:ARG:N	2.42	0.52
52:B:100:THR:HG22	52:B:120:GLU:N	2.25	0.52
69:S:31:LEU:HD21	69:S:43:LYS:CG	2.39	0.52
1:2b:628:G:O2'	78:1b:846:A:H1'	2.09	0.52
3:Ba:114:VAL:HG22	3:Ba:142:PHE:CE2	2.44	0.52
33:gb:220:ILE:O	33:gb:233:THR:CA	2.53	0.52
34:cb:53:ILE:C	34:cb:54:LEU:HD12	2.34	0.52
40:Dy:74:VAL:HG12	40:Dy:76:ALA:N	2.24	0.52
40:Dy:279:LYS:O	40:Dy:283:ALA:N	2.41	0.52
44:Hy:172:ILE:HD12	74:mb:90:ASN:HB3	1.89	0.52
47:Ly:85:LEU:N	47:Ly:85:LEU:HD23	2.23	0.52
47:Ly:119:TYR:O	47:Ly:123:ILE:HG23	2.09	0.52
49:Ny:50:ARG:HH21	78:1b:267:G:C4'	2.22	0.52
68:gy:10:ARG:NE	73:lb:4:GLN:OE1	2.43	0.52
71:jb:13:ASN:OD1	78:1b:1490:A:O2'	2.28	0.52
78:1b:2136:C:H42	78:1b:2143:A:H62	1.56	0.52
78:1b:3353:G:H3'	78:1b:3354:U:O4'	2.10	0.52
1:a:161:U:HO2'	1:a:162:A:C5'	2.22	0.52
1:a:649:U:O2'	1:a:650:U:O4'	2.27	0.52
5:d:238:SER:O	5:d:241:ASP:N	2.43	0.52
7:f:94:ALA:HB3	26:z:17:LEU:CD2	2.39	0.52
20:t:6:GLN:HG3	27:0:42:LEU:HD13	1.92	0.52
26:z:92:VAL:HG12	26:z:97:ALA:O	2.10	0.52
78:Aa:808:A:O2'	78:Aa:2412:G:O2'	2.22	0.52
78:Aa:835:G:O2'	78:Aa:836:A:OP2	2.25	0.52
78:Aa:1064:A:H62	78:Aa:1096:U:H3	1.57	0.52
78:Aa:1655:G:N2	78:Aa:1801:U:O4	2.43	0.52
78:Aa:2148:U:OP2	78:Aa:2187:G:N1	2.37	0.52
78:Aa:3055:U:O2'	78:Aa:3057:U:OP1	2.21	0.52
36:Ca:77:A:H2'	36:Ca:78:G:O4'	2.08	0.52
52:B:63:SER:HG	52:B:66:ARG:H	1.57	0.52
57:G:104:ASN:OD1	57:G:108:GLU:N	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:L:104:THR:HG21	62:L:127:ALA:HB2	1.90	0.52
74:X:103:LEU:HD12	74:X:121:LEU:HD22	1.91	0.52
1:2b:381:C:P	7:Eb:10:LYS:HZ2	2.33	0.52
1:2b:623:A:H3'	1:2b:624:G:H5''	1.91	0.52
1:2b:1783:C:OP2	75:nb:1:MET:HE3	2.08	0.52
2:Ab:11:PRO:O	2:Ab:14:ALA:N	2.42	0.52
3:Ba:71:ALA:HB3	17:Ob:114:ARG:NH1	2.24	0.52
7:Eb:127:LYS:N	7:Eb:140:VAL:O	2.36	0.52
33:gb:210:LEU:HD21	33:gb:222:LEU:HD12	1.90	0.52
44:Hy:22:SER:OG	44:Hy:23:ARG:N	2.38	0.52
47:Ly:119:TYR:CE2	47:Ly:123:ILE:HG21	2.45	0.52
59:Xy:34:LEU:HD12	78:1b:1558:A:N3	2.24	0.52
78:1b:358:G:N1	78:1b:361:A:OP2	2.42	0.52
1:a:647:G:N2	1:a:687:G:H22	2.08	0.52
1:a:704:C:N4	1:a:735:C:N3	2.58	0.52
1:a:1597:A:C4	30:4:13:ARG:O	2.62	0.52
9:h:117:GLY:N	58:H:75:THR:H	2.07	0.52
33:7:95:ALA:O	33:7:96:THR:HG22	2.10	0.52
78:Aa:15:C:N3	36:Ca:144:G:N1	2.56	0.52
78:Aa:606:C:C4	78:Aa:608:A:C6	2.98	0.52
78:Aa:1627:U:C4	78:Aa:1817:G:C6	2.97	0.52
37:Da:129:ALA:O	37:Da:169:ILE:HD13	2.09	0.52
46:Ma:82:ARG:HB3	46:Ma:112:LEU:HD12	1.91	0.52
47:Na:77:LEU:HD13	47:Na:87:ALA:HB2	1.92	0.52
47:Na:166:ALA:CB	62:L:147:LEU:HD11	2.39	0.52
1:2b:765:G:HO2'	1:2b:766:U:P	2.31	0.52
7:Eb:87:MET:N	7:Eb:101:LEU:O	2.43	0.52
20:Sb:125:ILE:HG22	20:Sb:129:TRP:CE3	2.45	0.52
21:Tb:20:SER:O	21:Tb:24:ARG:N	2.32	0.52
29:bb:36:LYS:HG3	29:bb:43:ILE:HG22	1.90	0.52
38:By:45:SER:OG	38:By:46:PHE:N	2.27	0.52
38:By:244:ARG:NE	78:1b:2947:G:OP2	2.43	0.52
44:Hy:166:ARG:NH2	78:1b:3108:G:H1'	2.24	0.52
51:Py:119:VAL:HG22	51:Py:146:ILE:HG12	1.91	0.52
66:ey:55:ILE:O	66:ey:58:GLY:N	2.37	0.52
1:a:60:U:O5'	1:a:455:C:N4	2.43	0.52
1:a:703:G:H2'	1:a:704:C:H5'	1.91	0.52
1:a:762:A:OP1	12:k:79:ARG:NH2	2.43	0.52
1:a:895:G:H1	1:a:917:U:H3	1.57	0.52
34:3:12:VAL:HG13	34:3:28:VAL:HG23	1.92	0.52
78:Aa:393:U:H2'	78:Aa:394:G:O4'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:726:G:N2	78:Aa:744:A:H62	2.08	0.52
78:Aa:1420:C:P	39:Fa:193:LYS:HZ1	2.28	0.52
78:Aa:2746:A:C2	40:Ga:146:LEU:HD22	2.45	0.52
35:Bb:73:C:O2	54:D:13:ARG:NE	2.42	0.52
38:Ea:361:THR:HG22	38:Ea:371:GLN:OE1	2.10	0.52
43:Ja:105:LYS:O	43:Ja:109:LEU:HD23	2.10	0.52
55:E:25:VAL:HG13	55:E:30:TYR:HE1	1.75	0.52
66:P:87:MET:HA	66:P:87:MET:HE3	1.92	0.52
1:2b:65:A:O3'	9:Gb:136:LYS:NZ	2.40	0.52
1:2b:488:G:N2	1:2b:499:U:O4	2.42	0.52
1:2b:538:A:HO2'	1:2b:540:G:H22	1.58	0.52
1:2b:1280:C:OP1	30:db:44:ARG:NH2	2.40	0.52
3:Ba:45:LYS:HD2	17:Ob:13:VAL:HG13	1.90	0.52
7:Eb:157:ASN:CG	7:Eb:222:LEU:HD21	2.34	0.52
8:Fb:57:SER:HA	34:cb:53:ILE:HB	1.92	0.52
8:Fb:146:THR:HG21	8:Fb:220:VAL:HG12	1.92	0.52
11:Ib:11:ARG:NH1	11:Ib:15:GLY:O	2.33	0.52
12:Jb:25:ASP:OD1	12:Jb:26:ALA:N	2.43	0.52
15:Mb:130:THR:OG1	15:Mb:131:ASP:N	2.42	0.52
17:Ob:83:ILE:O	17:Ob:118:VAL:HG22	2.08	0.52
38:By:222:LYS:O	38:By:272:TYR:N	2.35	0.52
40:Dy:33:ARG:NH1	40:Dy:72:ASP:OD2	2.42	0.52
43:Gy:63:LYS:O	43:Gy:66:SER:OG	2.26	0.52
47:Ly:155:GLU:N	47:Ly:155:GLU:OE2	2.43	0.52
55:Ty:116:ARG:NH1	78:1b:1096:U:OP2	2.40	0.52
62:ay:94:ALA:HB1	62:ay:121:VAL:HG23	1.91	0.52
78:1b:3108:G:O5'	78:1b:3120:C:N4	2.42	0.52
78:1b:3344:A:C2	78:1b:3361:G:N2	2.77	0.52
1:a:107:C:OP1	1:a:383:G:O2'	2.28	0.52
1:a:1254:U:OP1	15:n:46:ARG:NH2	2.43	0.52
2:b:103:THR:O	2:b:106:SER:OG	2.28	0.52
22:v:69:LYS:O	30:4:44:ARG:NH2	2.43	0.52
78:Aa:1236:G:O2'	78:Aa:1237:G:OP1	2.24	0.52
78:Aa:1604:G:H4'	78:Aa:1835:A:H4'	1.92	0.52
78:Aa:3152:U:OP2	78:Aa:3395:G:N1	2.40	0.52
38:Ea:166:ILE:HA	38:Ea:169:THR:HG22	1.91	0.52
52:B:62:VAL:HG13	52:B:66:ARG:HD3	1.91	0.52
74:X:94:SER:OG	74:X:104:PRO:O	2.27	0.52
3:Ba:179:SER:HG	3:Ba:187:LYS:HZ2	1.52	0.52
5:Cb:246:GLU:OE1	5:Cb:246:GLU:N	2.43	0.52
12:Jb:23:ARG:NH1	12:Jb:27:GLU:OE1	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Yb:39:GLU:OE1	26:Yb:39:GLU:N	2.40	0.52
41:Ey:65:ILE:HD12	41:Ey:79:VAL:CG2	2.40	0.52
57:Vy:15:LEU:HB3	57:Vy:51:ALA:HB1	1.92	0.52
78:1b:2374:C:N4	78:1b:2941:A:O4'	2.43	0.52
1:a:601:A:OP1	25:y:110:LYS:NZ	2.33	0.52
1:a:933:A:OP1	3:c:116:LYS:NZ	2.35	0.52
1:a:1321:A:N7	2:b:131:GLN:NE2	2.57	0.52
7:f:189:LEU:HD12	7:f:190:GLY:N	2.25	0.52
9:h:24:ILE:HG22	9:h:28:PHE:CE1	2.44	0.52
9:h:129:VAL:O	9:h:131:LYS:NZ	2.43	0.52
16:o:4:MET:SD	16:o:124:ARG:NH1	2.83	0.52
78:Aa:2592:G:O2'	78:Aa:2593:A:O5'	2.25	0.52
78:Aa:3333:G:N2	78:Aa:3370:A:H62	2.08	0.52
39:Fa:264:SER:OG	39:Fa:266:THR:OG1	2.22	0.52
42:Ia:132:PRO:HA	42:Ia:229:PHE:CD1	2.44	0.52
46:Ma:173:ASP:N	46:Ma:173:ASP:OD1	2.42	0.52
52:B:44:PHE:CD2	52:B:139:ILE:HD11	2.45	0.52
62:L:116:GLY:O	62:L:137:LYS:NZ	2.41	0.52
71:U:37:CYS:O	71:U:45:ARG:N	2.43	0.52
73:W:27:ILE:O	73:W:33:ASN:ND2	2.42	0.52
1:2b:487:G:C6	1:2b:501:U:C2	2.97	0.52
1:2b:819:G:C6	1:2b:853:G:C6	2.97	0.52
1:2b:1533:C:OP2	27:Zb:74:SER:OG	2.27	0.52
3:Ba:108:ASP:OD1	3:Ba:108:ASP:N	2.39	0.52
4:Pb:65:LEU:HD12	4:Pb:66:ALA:N	2.25	0.52
6:Db:176:LEU:N	6:Db:176:LEU:HD12	2.25	0.52
10:Hb:114:ARG:O	10:Hb:117:THR:HG22	2.10	0.52
11:Ib:107:THR:HG22	11:Ib:110:ARG:HH11	1.75	0.52
12:Jb:161:THR:HG23	12:Jb:161:THR:O	2.08	0.52
15:Mb:52:LEU:HD23	15:Mb:57:ALA:HB2	1.91	0.52
21:Tb:70:GLN:NE2	21:Tb:117:SER:OG	2.42	0.52
49:Ny:56:LYS:NZ	49:Ny:145:ASP:OD2	2.30	0.52
50:Oy:52[A]:LEU:O	50:Oy:55[A]:HIS:N	2.41	0.52
51:Py:112:LEU:N	51:Py:112:LEU:HD12	2.24	0.52
52:Qy:131:ALA:HB1	52:Qy:135:GLN:H	1.75	0.52
70:ib:36:ARG:NH2	78:1b:116:A:OP2	2.36	0.52
78:1b:1010:G:H22	78:1b:1040:A:H2	1.57	0.52
78:1b:2193:U:O2'	78:1b:2313:A:OP2	2.28	0.52
1:a:488:G:C6	1:a:499:U:O2	2.63	0.52
1:a:823:G:O2'	1:a:824:G:O4'	2.23	0.52
1:a:1098:U:O3'	24:x:71:LYS:NZ	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1183:A:N6	4:q:122:THR:O	2.43	0.52
1:a:1218:G:N2	1:a:1444:A:OP2	2.40	0.52
2:b:20:ALA:CB	2:b:172:LEU:HD13	2.40	0.52
6:e:161:GLY:O	6:e:164:VAL:HG12	2.10	0.52
7:f:54:TYR:O	26:z:15:ASN:ND2	2.42	0.52
17:p:22:SER:OG	17:p:23:PHE:N	2.43	0.52
32:6:150:VAL:O	32:6:151:ASN:ND2	2.42	0.52
78:Aa:297:G:O6	49:Pa:12:ARG:NH1	2.43	0.52
78:Aa:1719:G:N1	78:Aa:1726:C:N3	2.58	0.52
78:Aa:2371:G:N2	78:Aa:2375:G:N7	2.58	0.52
78:Aa:3259:U:O3'	48:Oa:125:LYS:NZ	2.31	0.52
78:Aa:3304:U:O2'	38:Ea:334:ARG:NH2	2.42	0.52
37:Da:27:ALA:O	37:Da:128:ARG:NH2	2.42	0.52
39:Fa:59:GLN:O	71:U:52:LYS:NZ	2.31	0.52
39:Fa:72:ALA:HB3	39:Fa:76:ARG:HH22	1.73	0.52
39:Fa:84:ARG:NH1	39:Fa:88:GLY:O	2.43	0.52
39:Fa:155:ASP:OD1	39:Fa:156:LEU:N	2.42	0.52
41:Ha:69:PHE:N	41:Ha:142:ASP:OD2	2.38	0.52
43:Ja:228:GLU:OE1	43:Ja:228:GLU:N	2.42	0.52
44:Ka:98:PRO:O	44:Ka:116:ASN:ND2	2.42	0.52
56:F:37:LEU:HD12	56:F:41:ILE:HD11	1.92	0.52
80:ba:19:LEU:HD23	80:ba:88:PHE:CE1	2.44	0.52
1:2b:885:G:H21	17:Ob:123:SER:HB2	1.74	0.52
1:2b:1336:A:O2'	1:2b:1337:A:O4'	2.23	0.52
1:2b:1409:G:N1	1:2b:1412:G:OP2	2.41	0.52
7:Eb:257:ALA:O	7:Eb:259:GLN:N	2.38	0.52
13:Kb:2:LEU:HD12	13:Kb:3:MET:CA	2.40	0.52
26:Yb:27:VAL:HG11	26:Yb:35:VAL:HG21	1.92	0.52
29:bb:23:THR:OG1	29:bb:25:VAL:O	2.16	0.52
37:Ay:129:ALA:HB3	37:Ay:132:ASN:HD22	1.74	0.52
39:Cy:176:SER:OG	39:Cy:177:ASP:N	2.42	0.52
47:Ly:115:ARG:NH1	47:Ly:145:PHE:O	2.43	0.52
55:Ty:80:VAL:HG21	55:Ty:85:LEU:HD12	1.92	0.52
1:a:1159:C:N4	1:a:1285:U:OP1	2.42	0.52
1:a:1303:U:O2'	1:a:1322:A:OP2	2.28	0.52
1:a:1535:U:O2'	1:a:1536:G:O5'	2.28	0.52
7:f:162:ILE:H	7:f:162:ILE:HD12	1.74	0.52
33:7:20:VAL:O	33:7:290:VAL:HG23	2.09	0.52
78:Aa:704:U:H3'	78:Aa:705:A:C5'	2.40	0.52
78:Aa:1447:G:O6	51:A:142:SER:OG	2.27	0.52
78:Aa:1620:U:O2	78:Aa:1825:G:N2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:3305:A:OP1	38:Ea:334:ARG:NH2	2.42	0.52
38:Ea:60:LEU:HD23	38:Ea:67:PHE:C	2.35	0.52
58:H:35:LYS:O	58:H:39:LEU:HD23	2.10	0.52
69:S:28:LEU:HD11	69:S:32:LYS:HE2	1.91	0.52
1:2b:514:G:N7	1:2b:537:G:N2	2.58	0.52
1:2b:612:U:OP2	1:2b:613:G:O2'	2.23	0.52
1:2b:765:G:OP2	1:2b:765:G:N2	2.37	0.52
2:Ab:157:ASP:OD1	23:Vb:60:ARG:NH2	2.44	0.52
10:Hb:38:LEU:HD13	10:Hb:41:LEU:HD12	1.92	0.52
18:Qb:39:VAL:HG12	18:Qb:41:PRO:CD	2.40	0.52
39:Cy:284:SER:O	39:Cy:286:VAL:N	2.43	0.52
76:ob:86:LYS:NZ	78:1b:2754:G:O6	2.27	0.52
10:i:173:TYR:CE1	10:i:181:ILE:HD11	2.45	0.52
4:q:33:PHE:O	4:q:36:LEU:HD23	2.09	0.52
78:Aa:370:U:H3	78:Aa:374:A:H62	1.58	0.52
78:Aa:726:G:N2	78:Aa:743:C:OP2	2.41	0.52
78:Aa:1404:G:P	66:P:11:LYS:HZ2	2.32	0.52
78:Aa:1901:A:O2'	78:Aa:2918:G:O5'	2.24	0.52
78:Aa:2704:A:O2'	78:Aa:2705:A:O5'	2.24	0.52
44:Ka:147:SER:HB3	44:Ka:187:ILE:HD11	1.91	0.52
80:ba:42:ARG:O	80:ba:46:ARG:NE	2.37	0.52
1:2b:401:A:O3'	7:Eb:3:ARG:NH1	2.41	0.51
1:2b:627:C:H2'	1:2b:628:G:O4'	2.10	0.51
1:2b:1297:G:N2	1:2b:1300:A:OP2	2.42	0.51
13:Kb:15:LEU:HD11	13:Kb:68:LEU:HD23	1.91	0.51
14:Lb:36:LYS:N	14:Lb:60:PHE:O	2.43	0.51
15:Mb:91:VAL:HG11	15:Mb:97:LEU:HD22	1.92	0.51
21:Tb:116:ILE:O	21:Tb:123:ARG:NH2	2.42	0.51
39:Cy:326:ARG:NH1	78:1b:608:A:O3'	2.39	0.51
61:Zy:88:ASP:O	61:Zy:121:ARG:NH2	2.43	0.51
1:a:1316:G:OP1	19:s:6:THR:OG1	2.27	0.51
6:e:138:VAL:HG22	6:e:184:ILE:HD13	1.92	0.51
14:m:6:THR:OG1	14:m:9:SER:OG	2.26	0.51
21:u:15:ILE:HD11	21:u:63:ARG:CD	2.39	0.51
78:Aa:90:C:OP1	62:L:59:ARG:NH1	2.37	0.51
78:Aa:1222:G:H2'	80:ba:57:THR:HG21	1.91	0.51
78:Aa:2718:U:H2'	78:Aa:2719:U:C1'	2.40	0.51
47:Na:18:TRP:O	47:Na:21:ARG:C	2.53	0.51
68:R:44:CYS:SG	68:R:45:GLY:N	2.83	0.51
1:2b:271:A:N6	9:Gb:185:GLN:OE1	2.40	0.51
1:2b:805:U:O3'	24:Wb:78:ARG:NH1	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ba:30:PHE:O	3:Ba:45:LYS:CA	2.54	0.51
5:Cb:139:ILE:CD1	5:Cb:218:ILE:HD12	2.40	0.51
18:Qb:36:ILE:HD11	18:Qb:48:VAL:HG22	1.91	0.51
22:Ub:92:ASP:C	22:Ub:93:LEU:HD22	2.35	0.51
35:4b:62:U:O4	35:4b:63:A:N6	2.43	0.51
36:3b:12:A:H4'	51:Py:3:ARG:O	2.11	0.51
36:3b:61:A:O5'	69:hb:48:ARG:NH2	2.41	0.51
46:Jy:38:GLU:O	46:Jy:42:GLY:N	2.39	0.51
51:Py:74:LYS:NZ	78:1b:3298:C:OP1	2.43	0.51
68:gy:51:LEU:N	68:gy:51:LEU:HD23	2.25	0.51
78:1b:431:U:N3	78:1b:432:G:N7	2.57	0.51
78:1b:1343:A:H2'	78:1b:1344:G:O4'	2.10	0.51
9:h:52:ILE:HA	9:h:111:LEU:HD23	1.91	0.51
19:s:47:ARG:NH1	19:s:48:ASN:OD1	2.43	0.51
31:5:4:VAL:HG12	31:5:5:HIS:CE1	2.45	0.51
78:Aa:595:G:O3'	42:Ia:33:ARG:NH1	2.43	0.51
78:Aa:994:G:C4	78:Aa:1053:A:C6	2.98	0.51
78:Aa:1040:A:N3	45:La:198:LYS:NZ	2.54	0.51
78:Aa:2435:G:N7	78:Aa:2593:A:O2'	2.33	0.51
44:Ka:173:ARG:CB	74:X:127:LEU:HD11	2.40	0.51
72:V:2:ALA:N	72:V:51:LEU:O	2.43	0.51
1:2b:227:U:O4	1:2b:235:G:C6	2.63	0.51
1:2b:332:U:O4	11:Ib:172:ARG:NH2	2.44	0.51
1:2b:765:G:H1'	1:2b:766:U:H5''	1.92	0.51
11:Ib:69:SER:OG	11:Ib:185:GLU:OE2	2.19	0.51
11:Ib:187:GLU:OE1	11:Ib:187:GLU:N	2.37	0.51
21:Tb:61:VAL:O	21:Tb:65:ILE:N	2.44	0.51
39:Cy:188:ARG:NH1	78:1b:1381:A:OP1	2.42	0.51
63:by:55:ALA:HB1	63:by:59:LYS:HE3	1.91	0.51
68:gy:56:THR:O	68:gy:57:LEU:HD23	2.11	0.51
78:1b:1811:G:N2	78:1b:1812:G:N3	2.58	0.51
78:1b:2278:C:O2'	78:1b:2279:A:O5'	2.26	0.51
1:a:74:U:HO2'	1:a:75:U:C5'	2.17	0.51
1:a:256:A:O2'	11:j:73:SER:N	2.40	0.51
8:g:91:GLU:OE2	8:g:107:LYS:NZ	2.27	0.51
33:7:132:LYS:HG2	33:7:143:THR:HG23	1.92	0.51
78:Aa:340:C:OP2	39:Fa:195:ARG:NH1	2.43	0.51
78:Aa:655:C:OP1	66:P:27:ARG:N	2.43	0.51
78:Aa:2588:U:OP1	43:Ja:48:ARG:NH2	2.42	0.51
78:Aa:3376:A:OP1	65:O:18:LYS:NZ	2.29	0.51
45:La:135:ILE:HG22	45:La:136:PHE:CD1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:L:114:GLY:O	62:L:137:LYS:NZ	2.31	0.51
71:U:4:GLY:O	71:U:7:SER:OG	2.21	0.51
77:aa:57:CYS:CB	77:aa:60:CYS:HG	2.22	0.51
1:2b:765:G:O2'	1:2b:766:U:O5'	2.21	0.51
3:Ba:195:LYS:O	3:Ba:199:ASN:ND2	2.42	0.51
6:Db:22:ASN:O	6:Db:26:THR:HG22	2.11	0.51
20:Sb:28:ILE:O	20:Sb:31:ALA:HB3	2.11	0.51
28:ab:22:ARG:NH2	28:ab:27:SER:O	2.43	0.51
33:gb:207:ASP:HB2	33:gb:209:THR:HG22	1.91	0.51
37:Ay:83:HIS:ND1	37:Ay:86:GLN:OE1	2.44	0.51
37:Ay:135:ILE:HG22	37:Ay:136:ILE:O	2.11	0.51
57:Vy:82:ALA:HB3	57:Vy:98:ASN:HD21	1.75	0.51
59:Xy:121:LYS:NZ	78:1b:1522:U:OP2	2.36	0.51
62:ay:89:GLN:O	62:ay:93:SER:OG	2.18	0.51
62:ay:112:ILE:O	62:ay:113:LEU:HD23	2.10	0.51
70:ib:91:ASN:O	70:ib:95:ALA:N	2.44	0.51
78:1b:1306:G:N2	78:1b:1307:G:N7	2.57	0.51
1:a:259:U:OP1	11:j:75:LYS:NZ	2.44	0.51
1:a:1310:U:O2	1:a:1316:G:C2	2.63	0.51
11:j:10:LYS:O	11:j:18:ARG:NE	2.42	0.51
12:k:85:VAL:HG13	12:k:103:ASP:HB2	1.93	0.51
13:l:23:ALA:HB3	13:l:64:TYR:O	2.11	0.51
16:o:33:VAL:HG21	16:o:66:ILE:HD12	1.92	0.51
20:t:5:VAL:HG12	20:t:7:GLU:H	1.75	0.51
20:t:22:VAL:CG1	20:t:31:ALA:HB1	2.39	0.51
32:6:126:CYS:SG	32:6:141:CYS:SG	3.05	0.51
78:Aa:113:C:O5'	49:Pa:147:ARG:NH2	2.44	0.51
78:Aa:797:U:OP1	47:Na:2:ALA:N	2.43	0.51
78:Aa:1662:G:N2	78:Aa:1788:C:O2	2.44	0.51
78:Aa:3194:C:C2	78:Aa:3197:G:N2	2.66	0.51
40:Ga:37:VAL:HG11	55:E:31:LEU:HD21	1.92	0.51
54:D:77:VAL:HG12	54:D:79:VAL:HG23	1.93	0.51
1:2b:55:A:H3'	1:2b:403:G:H22	1.75	0.51
1:2b:383:G:OP2	7:Eb:6:LYS:NZ	2.43	0.51
1:2b:1347:U:C5	22:Ub:58:LEU:HD11	2.46	0.51
8:Fb:51:VAL:HG11	8:Fb:130:ILE:CG2	2.40	0.51
32:fb:146:SER:O	32:fb:149:LYS:NZ	2.43	0.51
37:Ay:165:VAL:HG12	37:Ay:166:ILE:N	2.25	0.51
38:By:102:LEU:HD23	38:By:102:LEU:H	1.75	0.51
39:Cy:150:LEU:HD12	39:Cy:151:VAL:H	1.75	0.51
39:Cy:150:LEU:HD12	39:Cy:151:VAL:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:Iy:35:ASP:O	45:Iy:36:LEU:HD12	2.10	0.51
57:Vy:82:ALA:HB3	57:Vy:98:ASN:ND2	2.26	0.51
60:Yy:83:ASP:OD1	60:Yy:84:LYS:N	2.43	0.51
64:cy:16:LEU:HD12	64:cy:16:LEU:O	2.10	0.51
65:dy:96:VAL:HG12	65:dy:97:LEU:O	2.11	0.51
67:fy:85:PHE:HE2	67:fy:89:LEU:HD21	1.76	0.51
68:gy:9:ARG:NH2	78:1b:1606:U:O4	2.42	0.51
78:1b:677:A:N6	78:1b:785:G:O2'	2.33	0.51
78:1b:1131:G:N2	78:1b:2372:A:OP2	2.35	0.51
1:a:896:U:O2	17:p:41:ARG:NH2	2.44	0.51
1:a:1588:G:P	18:r:132:LYS:HZ2	2.32	0.51
2:b:172:LEU:HD12	19:s:91:LEU:CD1	2.41	0.51
16:o:134:VAL:HG23	16:o:135:LEU:HG	1.93	0.51
29:2:15:GLU:O	29:2:29:ARG:NH2	2.43	0.51
78:Aa:148:G:O2'	78:Aa:149:U:OP2	2.27	0.51
78:Aa:637:C:N4	78:Aa:2361:A:N7	2.59	0.51
78:Aa:1060:U:O2'	55:E:61:THR:HG21	2.11	0.51
78:Aa:1078:U:N3	78:Aa:1081:U:OP2	2.42	0.51
78:Aa:3357:U:HO2'	78:Aa:3358:U:P	2.34	0.51
40:Ga:278:SER:C	40:Ga:282:ARG:HE	2.19	0.51
41:Ha:40:LEU:HD23	41:Ha:86:ALA:HA	1.92	0.51
49:Pa:36:ILE:CG2	49:Pa:64:VAL:HG23	2.41	0.51
51:A:148:LEU:C	51:A:148:LEU:HD12	2.36	0.51
55:E:25:VAL:HG13	55:E:30:TYR:CE1	2.46	0.51
77:aa:57:CYS:HB3	77:aa:60:CYS:HG	1.75	0.51
1:2b:558:U:O2'	1:2b:559:C:OP2	2.29	0.51
12:Jb:124:HIS:CE1	12:Jb:128:LEU:HD11	2.45	0.51
38:By:59:ASP:OD1	38:By:59:ASP:N	2.42	0.51
40:Dy:54:ARG:NH1	40:Dy:147:ASP:OD1	2.41	0.51
40:Dy:184:ASP:OD2	40:Dy:187:THR:OG1	2.21	0.51
41:Ey:82:ARG:NH2	78:1b:501:A:OP1	2.43	0.51
78:1b:733:G:N2	78:1b:736:A:OP2	2.35	0.51
78:1b:2725:U:OP2	78:1b:2726:C:N4	2.43	0.51
1:a:774:A:N6	1:a:786:C:C2	2.73	0.51
1:a:1584:G:O2'	1:a:1610:G:O6	2.25	0.51
5:d:240:LEU:H	5:d:240:LEU:HD12	1.76	0.51
9:h:77:LEU:HD22	9:h:81:VAL:HG11	1.92	0.51
22:v:71:PRO:N	30:4:44:ARG:HH22	2.08	0.51
22:v:72:ASN:O	22:v:74:GLU:N	2.37	0.51
78:Aa:2673:A:OP1	46:Ma:95:ASN:N	2.41	0.51
78:Aa:2841:G:N2	78:Aa:2898:G:O6	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Fa:334:PHE:CD2	39:Fa:339:LEU:HD11	2.46	0.51
45:La:38:LYS:CG	45:La:41:ALA:HB2	2.40	0.51
47:Na:134:GLU:O	47:Na:135:ALA:HB2	2.11	0.51
54:D:24:LEU:HD22	54:D:59:VAL:HG21	1.92	0.51
1:2b:1447:C:C1'	32:fb:80:ARG:HE	2.24	0.51
1:2b:1597:A:OP2	30:db:32:ARG:NH1	2.42	0.51
8:Fb:187:ILE:N	8:Fb:187:ILE:HD12	2.26	0.51
22:Ub:33:GLN:OE1	22:Ub:33:GLN:N	2.38	0.51
33:gb:128:ASP:OD1	33:gb:130:THR:OG1	2.24	0.51
40:Dy:162:ALA:O	40:Dy:165:GLY:N	2.44	0.51
51:Py:114:VAL:O	51:Py:114:VAL:HG13	2.11	0.51
68:gy:54:ILE:HD11	68:gy:72:VAL:HG13	1.92	0.51
78:1b:2724:U:OP2	78:1b:2726:C:N4	2.43	0.51
1:a:445:A:H61	1:a:462:G:H1'	1.76	0.51
1:a:753:A:H62	7:f:187:ARG:NH2	2.08	0.51
1:a:1191:U:O2'	18:r:142:TYR:O	2.27	0.51
7:f:87:MET:HE1	7:f:236:ILE:HD13	1.93	0.51
29:2:65:THR:O	29:2:72:LYS:N	2.42	0.51
33:7:264:SER:OG	33:7:267:PRO:O	2.26	0.51
78:Aa:43:A:N7	78:Aa:2802:A:N6	2.59	0.51
78:Aa:151:A:O2'	78:Aa:152:U:OP1	2.26	0.51
78:Aa:298:U:P	70:T:33:ALA:HB2	2.50	0.51
35:Bb:13:A:OP1	35:Bb:111:U:O2'	2.19	0.51
38:Ea:46:PHE:CE1	38:Ea:84:VAL:HG13	2.46	0.51
49:Pa:35:VAL:HG22	49:Pa:65:ARG:CZ	2.41	0.51
57:G:42:SER:OG	57:G:42:SER:O	2.28	0.51
60:J:88:GLU:OE1	60:J:88:GLU:N	2.43	0.51
65:O:46:THR:HG23	65:O:48:ASP:H	1.76	0.51
67:Q:85:PHE:CE2	67:Q:89:LEU:HD21	2.44	0.51
1:2b:924:A:H2'	1:2b:925:G:C8	2.45	0.51
16:Nb:40:TYR:CZ	16:Nb:53:LEU:HD21	2.46	0.51
32:fb:141:CYS:SG	32:fb:143:LYS:N	2.79	0.51
35:4b:50:U:O2'	40:Dy:221:GLU:O	2.22	0.51
38:By:215:ILE:HD12	38:By:338:LEU:HD12	1.92	0.51
40:Dy:127:GLY:O	40:Dy:195:LEU:HD23	2.10	0.51
1:a:580:A:O2'	1:a:583:C:N4	2.38	0.51
2:b:55:GLU:CG	23:w:79:LEU:HD22	2.41	0.51
7:f:66:MET:N	7:f:66:MET:HE2	2.25	0.51
8:g:63:GLN:H	8:g:89:ILE:HD13	1.75	0.51
26:z:23:PHE:CZ	26:z:75:VAL:HG23	2.46	0.51
28:1:6:ALA:O	28:1:13:LYS:NZ	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:1534:A:OP2	78:Aa:1586:G:N1	2.40	0.51
78:Aa:1690:C:OP2	53:C:64:ARG:NH2	2.44	0.51
36:Ca:156:U:O2'	36:Ca:157:U:OP1	2.19	0.51
37:Da:169:ILE:H	37:Da:169:ILE:HD12	1.76	0.51
40:Ga:183:TRP:HA	40:Ga:190:ILE:HA	1.93	0.51
61:K:36:HIS:O	61:K:38:PHE:N	2.41	0.51
70:T:70:ARG:HE	70:T:87:VAL:HG11	1.76	0.51
1:2b:1277:G:H22	1:2b:1434:U:H3	1.57	0.51
1:2b:1281:G:H5''	22:Ub:78:THR:HG21	1.91	0.51
1:2b:1382:A:HO2'	1:2b:1383:G:P	2.30	0.51
9:Gb:43:ASP:O	9:Gb:119:GLN:NE2	2.44	0.51
52:Qy:28:LEU:O	52:Qy:32:LEU:N	2.42	0.51
78:1b:533:A:N7	78:1b:555:U:O4	2.44	0.51
78:1b:2653:C:O2'	78:1b:2657:A:N6	2.42	0.51
1:a:649:U:HO2'	1:a:650:U:C5'	2.17	0.51
1:a:1349:G:N2	1:a:1379:C:H42	2.09	0.51
7:f:77:ARG:NH1	7:f:82:TYR:OH	2.44	0.51
7:f:145:ARG:NH1	7:f:164:LEU:O	2.42	0.51
17:p:30:VAL:N	17:p:40:ALA:O	2.43	0.51
4:q:80:MET:O	4:q:116:LEU:HD12	2.11	0.51
78:Aa:100:A:OP1	49:Pa:193:ARG:NH2	2.42	0.51
78:Aa:177:U:O2	78:Aa:241:G:N2	2.41	0.51
78:Aa:757:C:H2'	78:Aa:758:C:O4'	2.11	0.51
78:Aa:784:A:C6	52:B:93:ILE:HG22	2.46	0.51
78:Aa:2574:G:O6	61:K:56:LYS:NZ	2.43	0.51
52:B:77:ALA:O	52:B:99:THR:HG21	2.11	0.51
67:Q:13:HIS:CE1	67:Q:89:LEU:HD13	2.45	0.51
1:2b:154:G:O5'	26:Yb:132:ARG:NH2	2.44	0.51
1:2b:1331:A:N6	6:Db:160:SER:O	2.44	0.51
2:Ab:41:ARG:NH1	2:Ab:43:ASP:OD2	2.44	0.51
37:Ay:105:GLY:N	37:Ay:160:SER:O	2.44	0.51
44:Hy:21:LYS:N	78:1b:3198:U:O2	2.43	0.51
45:Iy:35:ASP:C	45:Iy:36:LEU:HD12	2.36	0.51
47:Ly:24:VAL:HG13	49:Ny:199:LEU:O	2.11	0.51
50:Oy:176[A]:LYS:HA	50:Oy:179[A]:ALA:HB3	1.92	0.51
62:ay:34:MET:N	78:1b:96:G:OP1	2.41	0.51
64:cy:52:ARG:NH1	78:1b:1729:A:O4'	2.38	0.51
78:1b:1231:A:O2'	78:1b:1261:G:O2'	2.29	0.51
1:a:1615:C:N4	8:g:78:ALA:O	2.43	0.51
7:f:88:ASP:HB2	7:f:101:LEU:HD12	1.92	0.51
8:g:93:LEU:HD12	8:g:172:ILE:HG23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:170:G:N1	78:Aa:249:U:C2	2.79	0.51
78:Aa:780:A:O3'	52:B:151:ARG:NH2	2.41	0.51
78:Aa:2163:C:N3	78:Aa:2172:A:N6	2.59	0.51
78:Aa:2394:G:N2	38:Ea:258:ALA:O	2.38	0.51
78:Aa:3377:G:O2'	38:Ea:313:HIS:NE2	2.44	0.51
52:B:155:MET:SD	52:B:156:GLY:N	2.81	0.51
56:F:22:PRO:O	56:F:27:VAL:HG22	2.11	0.51
3:Ba:29:TRP:CD2	3:Ba:47:LEU:HD11	2.45	0.50
3:Ba:185:THR:HG22	3:Ba:189:ILE:HD11	1.93	0.50
5:Cb:64:LYS:HA	5:Cb:134:LEU:HD11	1.94	0.50
13:Kb:20:VAL:HG12	13:Kb:67:THR:CB	2.41	0.50
25:Xb:12:ALA:HA	25:Xb:15:LEU:HD12	1.92	0.50
50:Oy:151[A]:ASP:OD1	50:Oy:152[A]:VAL:N	2.44	0.50
57:Vy:39:VAL:HG22	57:Vy:52:ALA:HB2	1.92	0.50
64:cy:9:SER:OG	64:cy:10:ILE:N	2.37	0.50
78:1b:1192:C:O2'	78:1b:1193:A:OP1	2.24	0.50
78:1b:1703:U:C2'	78:1b:1704:A:H5''	2.41	0.50
78:1b:1819:U:HO2'	78:1b:1820:U:P	2.34	0.50
1:a:74:U:O2'	58:H:116:LYS:O	2.30	0.50
1:a:1597:A:N3	30:4:14:TYR:CB	2.74	0.50
5:d:59:HIS:HB3	5:d:61:LEU:HD21	1.93	0.50
9:h:137:ARG:HD2	9:h:177:ARG:HE	1.77	0.50
27:0:66:VAL:HG22	27:0:71:ILE:CG2	2.41	0.50
78:Aa:213:A:H61	78:Aa:227:G:C2'	2.25	0.50
78:Aa:268:A:OP1	49:Pa:50:ARG:NE	2.44	0.50
78:Aa:2223:A:OP1	70:T:67:LYS:NZ	2.44	0.50
78:Aa:2356:A:N6	78:Aa:2983:C:H42	2.09	0.50
78:Aa:3050:U:H5''	58:H:17:ARG:HE	1.77	0.50
78:Aa:3242:G:O6	38:Ea:150:ARG:NH1	2.43	0.50
42:Ia:104:GLN:NE2	52:B:4:ASP:OD2	2.44	0.50
48:Oa:20:VAL:HG13	48:Oa:66:THR:OG1	2.11	0.50
59:I:113:LEU:C	59:I:113:LEU:HD12	2.36	0.50
1:2b:629:U:C5	78:1b:846:A:C5	2.99	0.50
1:2b:939:A:H61	1:2b:975:C:H1'	1.76	0.50
1:2b:1346:A:C8	1:2b:1370:U:N3	2.79	0.50
26:Yb:35:VAL:O	26:Yb:36:SER:OG	2.29	0.50
38:By:226:PHE:HE1	38:By:267:ALA:HB1	1.75	0.50
40:Dy:282:ARG:O	40:Dy:286:VAL:HG23	2.10	0.50
46:Jy:156:LYS:O	46:Jy:160:VAL:HG13	2.12	0.50
49:Ny:201:ARG:NH2	78:1b:692:A:OP1	2.43	0.50
51:Py:29:THR:HG23	51:Py:87:SER:OG	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:dy:19:ARG:NH1	78:1b:3324:C:OP1	2.36	0.50
71:jb:35:SER:O	71:jb:45:ARG:NE	2.45	0.50
78:1b:2842:U:OP1	78:1b:2844:C:N4	2.44	0.50
78:1b:3024:A:H62	78:1b:3031:G:H21	1.59	0.50
1:a:63:G:O2'	1:a:170:U:OP1	2.29	0.50
1:a:563:U:O2'	1:a:566:C:N3	2.44	0.50
1:a:878:G:OP1	1:a:943:C:O2'	2.25	0.50
3:c:97:LEU:HD22	3:c:232:HIS:ND1	2.25	0.50
3:c:125:VAL:HG21	3:c:173:THR:CG2	2.42	0.50
17:p:71:CYS:O	17:p:76:ILE:N	2.41	0.50
27:0:54:VAL:HG11	27:0:83:LEU:CD1	2.41	0.50
78:Aa:116:A:OP1	78:Aa:265:A:O2'	2.22	0.50
78:Aa:610:G:N3	39:Fa:313:LEU:HD12	2.26	0.50
78:Aa:992:A:N6	78:Aa:1057:A:H61	2.10	0.50
78:Aa:1627:U:O4	78:Aa:1817:G:O6	2.30	0.50
78:Aa:3356:G:O2'	78:Aa:3357:U:OP1	2.18	0.50
38:Ea:281:LYS:NZ	38:Ea:350:ALA:O	2.31	0.50
40:Ga:56:THR:HG1	40:Ga:59:ASP:C	2.19	0.50
42:Ia:170:GLU:O	42:Ia:174:GLY:N	2.43	0.50
44:Ka:59:ASN:OD1	48:Oa:41:GLN:NE2	2.41	0.50
45:La:18:PRO:O	45:La:23:ASN:ND2	2.43	0.50
53:C:116:ASP:OD1	53:C:118:HIS:N	2.43	0.50
1:2b:256:A:H2'	1:2b:257:A:O4'	2.11	0.50
1:2b:638:U:O3'	10:Hb:112:ARG:NH2	2.44	0.50
1:2b:1436:A:OP2	6:Db:27:ARG:NH2	2.42	0.50
3:Ba:81:PHE:O	3:Ba:83:LYS:N	2.44	0.50
8:Fb:23:VAL:HG11	18:Qb:57:LEU:HB2	1.92	0.50
8:Fb:58:LEU:HD21	8:Fb:167:ARG:NH2	2.27	0.50
17:Ob:113:GLY:O	17:Ob:114:ARG:C	2.54	0.50
19:Rb:33:ARG:NE	33:gb:109:ASP:OD2	2.45	0.50
27:Zb:25:LYS:HZ1	79:6b:43:A:P	2.34	0.50
39:Cy:294:GLU:OE1	39:Cy:294:GLU:N	2.40	0.50
41:Ey:17:ALA:HB3	78:1b:592:A:C4'	2.41	0.50
42:Fy:117:VAL:HG12	42:Fy:118:LYS:O	2.10	0.50
50:Oy:10[A]:ASP:OD2	54:Sy:167:ARG:NH2	2.45	0.50
62:ay:26:ARG:HH22	78:1b:939:U:P	2.34	0.50
78:1b:451:U:N3	78:1b:486:A:C6	2.79	0.50
78:1b:2675:C:OP2	78:1b:2676:A:O2'	2.19	0.50
7:f:47:PHE:CD2	7:f:90:ILE:HD13	2.46	0.50
7:f:126:VAL:HA	7:f:141:THR:HG22	1.94	0.50
16:o:54:LEU:HD23	16:o:58:HIS:ND1	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:1:41:ILE:HG23	28:1:68:TYR:CE1	2.46	0.50
29:2:42:ASN:OD1	29:2:43:ILE:N	2.43	0.50
78:Aa:190:U:H5	60:J:59:VAL:HG21	1.76	0.50
78:Aa:324:A:O2'	78:Aa:325:A:O4'	2.28	0.50
78:Aa:2285:C:OP2	78:Aa:2286:U:O2'	2.23	0.50
78:Aa:3272:C:OP2	41:Ha:78:ARG:NH1	2.42	0.50
38:Ea:252:ILE:HD12	38:Ea:264:VAL:HG11	1.93	0.50
43:Ja:27:THR:O	43:Ja:28:HIS:ND1	2.44	0.50
51:A:67:ILE:HD12	51:A:82:ARG:CZ	2.41	0.50
1:2b:513:U:H2'	1:2b:514:G:C8	2.47	0.50
1:2b:1218:G:O4'	1:2b:1444:A:N6	2.44	0.50
12:Jb:110:GLN:OE1	12:Jb:126:ARG:NE	2.44	0.50
33:gb:120:SER:O	33:gb:136:ILE:HD11	2.11	0.50
43:Gy:33:ASN:HD21	78:1b:2549:G:H2'	1.76	0.50
68:gy:10:ARG:NH1	78:1b:1489:A:OP1	2.45	0.50
78:1b:2323:G:O2'	78:1b:2325:G:OP2	2.22	0.50
1:a:951:A:O3'	16:o:97:SER:OG	2.26	0.50
2:b:62:ARG:O	23:w:37:ALA:HB2	2.11	0.50
7:f:65:LEU:C	7:f:66:MET:HE2	2.36	0.50
4:q:22:LEU:HA	4:q:25:LEU:HD12	1.91	0.50
18:r:50:GLU:OE1	18:r:112:TYR:OH	2.25	0.50
19:s:93:LEU:O	19:s:96:SER:C	2.54	0.50
22:v:26:LEU:HD23	22:v:114:VAL:HG23	1.93	0.50
24:x:111:MET:HE1	24:x:121:VAL:CG2	2.41	0.50
78:Aa:11:A:H2'	78:Aa:12:A:C8	2.47	0.50
78:Aa:220:G:C5	78:Aa:1389:G:C2	3.00	0.50
78:Aa:996:A:N3	35:Bb:80:G:O2'	2.44	0.50
78:Aa:1206:G:OP1	45:La:153:ARG:NH2	2.44	0.50
78:Aa:2771:U:C4	78:Aa:2773:C:C4	2.99	0.50
78:Aa:3099:C:H42	78:Aa:3135:U:H3	1.58	0.50
38:Ea:341:SER:OG	38:Ea:343:TYR:N	2.44	0.50
40:Ga:211:LEU:HD23	40:Ga:219:PHE:HB2	1.94	0.50
43:Ja:139:VAL:HA	43:Ja:142:LEU:HD12	1.93	0.50
43:Ja:200:LEU:HD12	43:Ja:200:LEU:O	2.12	0.50
49:Pa:39:ALA:HB2	49:Pa:63:ARG:HH12	1.76	0.50
53:C:4:LEU:HD13	53:C:32:ILE:CG2	2.40	0.50
67:Q:32:ILE:HB	67:Q:35:VAL:HG21	1.92	0.50
1:2b:261:U:HO2'	1:2b:262:U:P	2.34	0.50
1:2b:780:A:N1	26:Yb:8:ARG:NH1	2.59	0.50
2:Ab:93:THR:HG22	2:Ab:185:ARG:HH12	1.76	0.50
2:Ab:118:PRO:HG2	2:Ab:141:ILE:HD13	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Gb:118:GLU:OE1	9:Gb:118:GLU:N	2.44	0.50
21:Tb:29:GLU:O	21:Tb:30:VAL:HG13	2.12	0.50
23:Vb:85:TYR:O	29:bb:6:ASP:N	2.40	0.50
25:Xb:130:VAL:O	25:Xb:130:VAL:HG12	2.10	0.50
33:gb:130:THR:HG22	33:gb:145:LEU:CD1	2.42	0.50
60:Yy:20:PHE:O	60:Yy:27:ARG:NH2	2.45	0.50
1:a:523:G:OP2	26:z:37:LYS:NZ	2.44	0.50
1:a:865:A:OP1	24:x:28:ARG:NH2	2.42	0.50
1:a:1410:A:H4'	18:r:118:ILE:HG23	1.92	0.50
1:a:1584:G:H22	1:a:1611:A:P	2.35	0.50
1:a:1600:A:N3	1:a:1602:C:N4	2.59	0.50
5:d:228:ASN:C	5:d:229:LEU:HD12	2.37	0.50
6:e:66:ILE:O	6:e:70:THR:HG23	2.11	0.50
7:f:62:LYS:HD3	7:f:65:LEU:HD12	1.93	0.50
18:r:101:SER:O	18:r:105:LEU:HD13	2.11	0.50
78:Aa:2762:A:N7	78:Aa:2795:U:C4	2.79	0.50
78:Aa:3019:U:H2'	78:Aa:3020:U:O4'	2.11	0.50
56:F:33:TYR:CZ	56:F:37:LEU:HD21	2.46	0.50
72:V:16:ARG:O	72:V:18:ALA:N	2.44	0.50
1:2b:903:U:O2'	1:2b:905:A:N7	2.33	0.50
3:Ba:176:VAL:HG22	3:Ba:184:LEU:HD13	1.93	0.50
8:Fb:58:LEU:HD21	8:Fb:167:ARG:CZ	2.41	0.50
12:Jb:148:VAL:HG12	12:Jb:150:LEU:H	1.77	0.50
20:Sb:82:PRO:HB2	20:Sb:84:TRP:CD1	2.47	0.50
47:Ly:123:ILE:HG22	69:hb:118:ILE:HD12	1.94	0.50
48:My:15:VAL:HG22	48:My:65:LEU:HD21	1.94	0.50
50:Oy:87[A]:MET:HE2	78:1b:1174:G:H21	1.76	0.50
52:Qy:27:LYS:O	52:Qy:31:LYS:N	2.37	0.50
53:Ry:132:PHE:CD1	53:Ry:138:LEU:HD12	2.46	0.50
69:hb:57:VAL:O	69:hb:60:GLU:N	2.40	0.50
78:1b:2704:A:HO2'	78:1b:2705:A:P	2.33	0.50
1:a:565:C:O3'	25:y:66:SER:OG	2.24	0.50
1:a:679:U:N3	1:a:680:U:O4	2.44	0.50
1:a:1173:C:HO2'	1:a:1601:G:N2	2.09	0.50
1:a:1797:A:N6	28:1:84:VAL:HG13	2.26	0.50
7:f:40:GLU:N	7:f:40:GLU:OE2	2.45	0.50
25:y:103:LEU:HD12	25:y:126:LYS:HD3	1.93	0.50
27:0:54:VAL:HG11	27:0:83:LEU:HD13	1.94	0.50
28:1:45:VAL:O	28:1:50:VAL:N	2.44	0.50
29:2:55:THR:OG1	29:2:61:THR:N	2.45	0.50
78:Aa:1453:A:N6	78:Aa:1850:A:O4'	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:3179:U:N3	78:Aa:3208:G:N1	2.59	0.50
36:Ca:34:U:O2'	36:Ca:35:C:OP2	2.23	0.50
36:Ca:56:G:N2	36:Ca:62:C:O4'	2.44	0.50
44:Ka:92:TYR:HB3	44:Ka:99:ILE:HD12	1.94	0.50
46:Ma:100:GLY:O	46:Ma:159:THR:HG21	2.11	0.50
5:Cb:142:GLY:N	5:Cb:153:SER:O	2.34	0.50
8:Fb:220:VAL:O	8:Fb:223:SER:OG	2.23	0.50
33:gb:215:GLY:O	33:gb:240:VAL:HG12	2.11	0.50
37:Ay:174:ARG:NH2	78:1b:2179:C:O3'	2.44	0.50
38:By:284:ARG:NH2	38:By:295:ALA:O	2.42	0.50
38:By:386:ASP:C	38:By:387:LEU:HD22	2.37	0.50
43:Gy:83:ASP:CG	43:Gy:86:THR:HG22	2.37	0.50
46:Jy:54:VAL:HG12	46:Jy:59:ILE:HG13	1.94	0.50
55:Ty:109:VAL:HG13	78:1b:1063:G:C6	2.46	0.50
66:ey:30:GLU:OE1	66:ey:30:GLU:N	2.36	0.50
78:1b:638:C:N4	78:1b:639:G:O6	2.45	0.50
78:1b:2837:A:O2'	78:1b:2838:A:OP2	2.18	0.50
14:m:102:LYS:O	25:y:13:ARG:NH1	2.40	0.50
33:7:133:VAL:O	33:7:141:LEU:N	2.45	0.50
78:Aa:39:A:N6	78:Aa:43:A:OP2	2.37	0.50
78:Aa:148:G:O6	43:Ja:136:LEU:N	2.45	0.50
78:Aa:1064:A:N6	78:Aa:1092:C:O2	2.45	0.50
78:Aa:1203:A:N3	78:Aa:2855:U:O2'	2.44	0.50
78:Aa:1237:G:N7	78:Aa:1263:A:O2'	2.45	0.50
78:Aa:1446:A:O2'	78:Aa:1447:G:OP2	2.30	0.50
78:Aa:1900:A:N7	78:Aa:2334:U:O4	2.45	0.50
78:Aa:2338:C:H1'	57:G:49:LEU:HD12	1.94	0.50
78:Aa:2765:C:OP1	62:L:55:LYS:NZ	2.43	0.50
78:Aa:2771:U:N3	78:Aa:2773:C:C4	2.80	0.50
36:Ca:156:U:HO2'	36:Ca:157:U:P	2.33	0.50
37:Da:96:LEU:O	77:aa:87:ARG:NH1	2.39	0.50
37:Da:132:ASN:O	37:Da:169:ILE:HD12	2.11	0.50
40:Ga:54:ARG:NH1	40:Ga:148:ILE:O	2.45	0.50
1:2b:644:C:H2'	1:2b:645:C:O4'	2.12	0.50
1:2b:1066:C:HO2'	3:Ba:148:ASN:CG	2.11	0.50
9:Gb:203:GLU:OE1	9:Gb:204:ALA:N	2.44	0.50
10:Hb:141:ARG:NH2	24:Wb:49:GLU:OE2	2.45	0.50
28:ab:69:ASN:N	28:ab:69:ASN:OD1	2.44	0.50
32:fb:132:LEU:HD13	32:fb:139:LEU:HB3	1.94	0.50
38:By:366:GLY:HA3	78:1b:3330:A:H4'	1.94	0.50
45:Iy:200:LEU:HD12	45:Iy:213:PHE:CG	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:Ty:110:LYS:O	55:Ty:113:ALA:HB3	2.12	0.50
57:Vy:114:ILE:HG22	57:Vy:115:THR:N	2.26	0.50
64:cy:51:LEU:HD11	68:gy:90:ILE:HG22	1.94	0.50
69:hb:82:ALA:HB1	69:hb:84:LYS:HG3	1.94	0.50
78:1b:1392:G:O2'	78:1b:1393:A:OP2	2.29	0.50
78:1b:2112:U:O2	78:1b:2113:A:N6	2.45	0.50
1:a:547:U:O2'	1:a:596:C:O2'	2.27	0.50
1:a:811:A:N7	10:i:111:LYS:N	2.59	0.50
1:a:956:C:O2'	1:a:1047:G:N3	2.44	0.50
2:b:93:THR:HG22	2:b:182:LEU:HD21	1.94	0.50
6:e:105:MET:HE1	6:e:118:ALA:C	2.37	0.50
9:h:117:GLY:HA3	58:H:75:THR:H	1.76	0.50
10:i:28:GLU:OE2	10:i:29:ASN:ND2	2.45	0.50
15:n:91:VAL:CG1	15:n:97:LEU:HD12	2.41	0.50
78:Aa:317:A:OP2	70:T:30:LYS:NZ	2.42	0.50
78:Aa:951:A:OP1	63:M:18:ARG:NH1	2.43	0.50
78:Aa:2653:C:O2'	78:Aa:2657:A:N6	2.45	0.50
35:Bb:40:C:C4	35:Bb:42:A:C6	3.00	0.50
45:La:36:LEU:HD12	45:La:37:GLY:N	2.27	0.50
46:Ma:76:ALA:HA	46:Ma:79:ILE:HD12	1.94	0.50
61:K:51:LEU:HD12	61:K:65:ARG:HD2	1.93	0.50
1:2b:15:U:H3	1:2b:1139:A:H61	1.60	0.50
1:2b:215:A:H62	1:2b:242:U:H3'	1.77	0.50
1:2b:476:U:O2'	1:2b:477:A:OP2	2.23	0.50
1:2b:929:A:N1	3:Ba:111:ARG:NH2	2.51	0.50
1:2b:1533:C:OP2	27:Zb:77:ARG:NH1	2.44	0.50
1:2b:1582:U:O2	1:2b:1614:A:N6	2.45	0.50
1:2b:1699:G:C6	1:2b:1703:C:N3	2.79	0.50
3:Ba:59:ASP:OD1	3:Ba:60:ALA:N	2.45	0.50
8:Fb:197:GLU:OE1	8:Fb:208:SER:OG	2.09	0.50
15:Mb:88:LEU:HD23	15:Mb:89:ILE:C	2.36	0.50
46:Jy:54:VAL:HG11	46:Jy:57:PHE:HB2	1.94	0.50
56:Uy:98:THR:OG1	56:Uy:102:GLU:O	2.19	0.50
78:1b:900:G:N2	78:1b:1589:A:C5	2.80	0.50
1:a:350:U:C2	1:a:352:A:C6	3.00	0.50
1:a:1203:A:N6	1:a:1553:G:H21	2.10	0.50
11:j:37:LYS:N	11:j:58:LEU:O	2.40	0.50
20:t:83:ALA:O	20:t:89:GLN:NE2	2.45	0.50
26:z:103:ALA:HB1	26:z:107:GLN:HB2	1.94	0.50
29:2:75:GLU:O	29:2:77:THR:HG23	2.12	0.50
78:Aa:91:G:O2'	78:Aa:95:A:N6	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:958:C:N4	78:Aa:964:G:O6	2.45	0.50
78:Aa:2583:C:O2'	78:Aa:2584:G:OP1	2.26	0.50
78:Aa:3123:A:O2'	44:Ka:40:HIS:ND1	2.41	0.50
37:Da:13:GLY:O	37:Da:17:THR:N	2.45	0.50
47:Na:3:ILE:HD11	62:L:34:MET:O	2.12	0.50
53:C:181:ARG:NH2	53:C:182:ASP:OD1	2.45	0.50
1:2b:220:A:C8	1:2b:831:U:N3	2.79	0.49
1:2b:407:A:H5'	9:Gb:94:ARG:NH2	2.27	0.49
1:2b:862:A:N7	16:Nb:64:ARG:NH1	2.60	0.49
1:2b:988:A:O2'	1:2b:989:U:O5'	2.30	0.49
1:2b:1479:A:OP2	21:Tb:57:ARG:NH2	2.39	0.49
1:2b:1633:A:HO2'	1:2b:1634:C:P	2.34	0.49
24:Wb:8:ALA:CB	24:Wb:74:VAL:HG11	2.39	0.49
24:Wb:80:ASN:OD1	24:Wb:124:LYS:NZ	2.29	0.49
32:fb:91:ILE:HD12	32:fb:91:ILE:H	1.77	0.49
47:Ly:77:LEU:HA	47:Ly:80:VAL:HG22	1.93	0.49
50:Oy:128[A]:ARG:C	50:Oy:129[A]:LEU:HD12	2.37	0.49
62:ay:26:ARG:NH2	78:1b:939:U:OP2	2.38	0.49
65:dy:15:ASN:O	65:dy:19:ARG:NH1	2.45	0.49
78:1b:880:G:HO2'	78:1b:881:C:P	2.34	0.49
78:1b:1940:G:H21	78:1b:3362:A:H8	1.58	0.49
78:1b:2586:G:O2'	78:1b:2588:U:OP2	2.27	0.49
1:a:271:A:N1	1:a:284:G:N2	2.59	0.49
1:a:359:A:N1	25:y:39:LYS:NZ	2.55	0.49
1:a:968:U:O2'	1:a:1103:U:O2	2.29	0.49
1:a:1085:G:N2	1:a:1088:A:OP2	2.40	0.49
1:a:1531:G:N2	21:u:48:GLN:OE1	2.40	0.49
1:a:1553:G:O2'	1:a:1555:A:N7	2.30	0.49
7:f:105:VAL:HG21	7:f:245:LYS:H	1.76	0.49
9:h:161:GLU:O	58:H:93:ARG:NH2	2.45	0.49
26:z:45:ALA:HB2	26:z:50:ALA:HB3	1.94	0.49
33:7:108:SER:OG	33:7:109:ASP:N	2.43	0.49
78:Aa:347:G:N2	78:Aa:353:G:O4'	2.46	0.49
78:Aa:525:C:OP2	48:Oa:77:ARG:NE	2.44	0.49
78:Aa:1815:U:HO2'	78:Aa:1816:A:P	2.28	0.49
78:Aa:2617:U:N3	78:Aa:2621:G:OP2	2.43	0.49
47:Na:170:LEU:HD22	70:T:9:ILE:HG22	1.94	0.49
61:K:22:LYS:NZ	61:K:132:SER:HG	2.10	0.49
71:U:76:ASN:O	71:U:79:GLN:NE2	2.45	0.49
76:Z:77:CYS:SG	76:Z:79:THR:OG1	2.70	0.49
1:2b:568:G:O6	1:2b:576:G:C2	2.64	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:Vb:34:ILE:N	23:Vb:53:TYR:O	2.36	0.49
36:3b:106:C:O2	36:3b:106:C:O2'	2.27	0.49
44:Hy:45:PHE:CD2	44:Hy:55:VAL:HG22	2.47	0.49
48:My:113:THR:HG22	48:My:116:GLU:OE1	2.12	0.49
50:Oy:59[A]:ARG:NH2	78:1b:1307:G:OP1	2.44	0.49
55:Ty:100:LYS:O	55:Ty:103:GLN:N	2.45	0.49
56:Uy:42:LYS:N	56:Uy:75:TYR:OH	2.37	0.49
61:Zy:95:VAL:O	61:Zy:100:THR:OG1	2.22	0.49
62:ay:112:ILE:HB	62:ay:130:VAL:HG12	1.93	0.49
76:ob:84:THR:O	76:ob:85:LEU:HD12	2.12	0.49
78:1b:1863:G:N1	78:1b:1866:C:OP2	2.37	0.49
1:a:593:U:HO2'	1:a:594:A:P	2.32	0.49
1:a:1167:G:H21	18:r:139:GLN:HE22	1.60	0.49
1:a:1523:G:O6	21:u:68:ARG:NE	2.45	0.49
7:f:139:VAL:HG12	7:f:147:ILE:O	2.12	0.49
11:j:36:THR:HA	11:j:58:LEU:HA	1.93	0.49
4:q:31:GLU:OE1	4:q:31:GLU:N	2.45	0.49
20:t:17:LEU:HD11	20:t:66:LEU:HB3	1.94	0.49
24:x:24:GLN:OE1	24:x:24:GLN:N	2.45	0.49
26:z:86:GLU:CB	26:z:91:LEU:HD21	2.41	0.49
33:7:148:ASN:N	33:7:175:ASP:OD2	2.44	0.49
78:Aa:509:U:C4	78:Aa:583:G:O6	2.65	0.49
78:Aa:1168:U:O4	78:Aa:1329:U:O2'	2.17	0.49
78:Aa:2148:U:O2'	37:Da:182:ALA:HB2	2.12	0.49
78:Aa:3109:G:H21	44:Ka:156:GLN:HE22	1.60	0.49
39:Fa:135:VAL:HG12	39:Fa:140:HIS:HB2	1.95	0.49
39:Fa:187:LEU:HD23	39:Fa:188:ARG:O	2.11	0.49
46:Ma:53:THR:HG23	46:Ma:60:ARG:HA	1.94	0.49
47:Na:18:TRP:O	47:Na:21:ARG:N	2.45	0.49
64:N:70:PHE:CD2	64:N:77:LEU:HD13	2.47	0.49
1:2b:579:A:H3'	1:2b:580:A:H5''	1.95	0.49
1:2b:651:G:N2	1:2b:683:C:H41	2.09	0.49
1:2b:1445:G:C5	32:fb:91:ILE:HD11	2.48	0.49
9:Gb:78:THR:OG1	9:Gb:79:LYS:O	2.30	0.49
18:Qb:90:VAL:O	18:Qb:94:GLN:N	2.45	0.49
38:By:167:ARG:NH1	78:1b:3319:U:O4	2.44	0.49
39:Cy:39:PHE:HA	39:Cy:42:VAL:HG12	1.93	0.49
42:Fy:99:PRO:O	42:Fy:102:VAL:N	2.46	0.49
43:Gy:193:LYS:NZ	78:1b:144:A:OP1	2.26	0.49
46:Jy:23:VAL:HG12	46:Jy:25:GLU:H	1.77	0.49
57:Vy:53:SER:N	57:Vy:56:ASP:OD2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:jb:34:CYS:CB	71:jb:37:CYS:SG	3.00	0.49
1:a:539:G:N2	1:a:540:G:O6	2.45	0.49
1:a:863:A:N7	1:a:964:U:O4	2.46	0.49
1:a:1456:C:P	1:a:1457:C:H2'	2.52	0.49
2:b:26:ALA:N	2:b:148:ASP:OD1	2.43	0.49
21:u:61:VAL:HG21	21:u:104:VAL:HG11	1.93	0.49
30:4:44:ARG:HA	30:4:47:ALA:HB2	1.94	0.49
78:Aa:223:U:OP1	78:Aa:224:C:N4	2.44	0.49
78:Aa:371:G:H21	78:Aa:375:A:H62	1.61	0.49
78:Aa:830:A:H62	78:Aa:864:G:N2	2.09	0.49
1:2b:148:A:C6	1:2b:166:C:N4	2.79	0.49
1:2b:1327:C:O2'	6:Db:159:HIS:ND1	2.44	0.49
9:Gb:55:GLY:N	9:Gb:63:MET:HE2	2.27	0.49
18:Qb:95:LYS:O	33:gb:59:ARG:NH1	2.46	0.49
20:Sb:17:LEU:N	20:Sb:17:LEU:HD23	2.27	0.49
28:ab:45:VAL:HG23	28:ab:46:GLU:N	2.26	0.49
40:Dy:119:TYR:CE1	40:Dy:135:VAL:HG22	2.47	0.49
49:Ny:52:GLY:HA3	49:Ny:116:LEU:HD21	1.94	0.49
52:Qy:67:ILE:O	52:Qy:71:LEU:N	2.43	0.49
53:Ry:95:TRP:NE1	78:1b:855:U:H4'	2.27	0.49
72:kb:26:LYS:NZ	78:1b:1750:A:O5'	2.46	0.49
78:1b:524:U:O4	78:1b:569:A:N6	2.45	0.49
78:1b:2344:U:H4'	78:1b:3056:U:C5	2.47	0.49
78:1b:2450:G:N2	78:1b:2497:U:O2	2.45	0.49
1:a:258:C:O4'	11:j:64:ASN:ND2	2.45	0.49
1:a:1127:G:OP1	75:Y:11:ARG:NH2	2.42	0.49
1:a:1205:C:H42	30:4:17:GLY:HA3	1.77	0.49
7:f:92:LEU:O	7:f:97:GLU:N	2.39	0.49
11:j:60:ILE:HG21	11:j:179:CYS:HB3	1.94	0.49
12:k:93:LEU:HA	12:k:96:VAL:HG22	1.94	0.49
16:o:84:ILE:HD11	16:o:89:TYR:HD2	1.75	0.49
26:z:40:LEU:HD13	26:z:60:PHE:CE2	2.47	0.49
33:7:89:LEU:HD21	33:7:110:VAL:HG11	1.94	0.49
78:Aa:2943:G:N7	38:Ea:2:SER:N	2.60	0.49
41:Ha:96:VAL:CG1	41:Ha:141:VAL:HG13	2.42	0.49
48:Oa:23:ILE:O	48:Oa:30:GLY:N	2.45	0.49
49:Pa:48:ALA:HB1	49:Pa:53:TYR:CB	2.42	0.49
54:D:90:MET:HE1	54:D:114:HIS:CE1	2.47	0.49
61:K:5:LEU:HD22	61:K:77:TYR:CE2	2.47	0.49
9:Gb:58:LYS:NZ	9:Gb:104:PRO:O	2.41	0.49
10:Hb:184:GLU:O	10:Hb:185:ILE:HD13	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:Nb:51:GLY:O	16:Nb:55:ARG:N	2.44	0.49
18:Qb:22:VAL:HG22	18:Qb:65:ILE:HG13	1.94	0.49
19:Rb:26:LEU:N	19:Rb:26:LEU:HD12	2.28	0.49
39:Cy:33:ASP:O	39:Cy:37:THR:HG23	2.13	0.49
40:Dy:20:PHE:O	40:Dy:24:ARG:NH2	2.43	0.49
47:Ly:88:ALA:O	47:Ly:92:THR:HG23	2.11	0.49
66:ey:87:MET:N	66:ey:87:MET:SD	2.85	0.49
71:jb:13:ASN:ND2	78:1b:901:G:OP1	2.45	0.49
78:1b:609:G:O2'	78:1b:610:G:OP2	2.27	0.49
78:1b:835:G:HO2'	78:1b:836:A:P	2.34	0.49
78:1b:1404:G:N1	78:1b:1407:A:OP2	2.36	0.49
1:a:1459:C:H4'	4:q:126:VAL:HG23	1.95	0.49
9:h:37:ASP:OD2	9:h:39:GLU:N	2.44	0.49
10:i:136:VAL:N	10:i:153:LEU:O	2.46	0.49
22:v:50:LEU:HD12	22:v:93:LEU:HD13	1.94	0.49
78:Aa:15:C:OP1	59:I:42:ARG:NE	2.40	0.49
78:Aa:283:G:O2'	62:L:59:ARG:NH2	2.40	0.49
78:Aa:883:A:O4'	51:A:133:HIS:HA	2.12	0.49
78:Aa:1192:C:N4	78:Aa:1300:G:OP2	2.46	0.49
78:Aa:1394:A:OP1	66:P:98:HIS:NE2	2.45	0.49
78:Aa:1560:G:N1	78:Aa:1561:G:C6	2.81	0.49
78:Aa:1579:C:H2'	78:Aa:1580:A:C8	2.48	0.49
78:Aa:1717:U:O2'	78:Aa:1718:G:O5'	2.30	0.49
78:Aa:2656:A:OP1	76:Z:98:LYS:N	2.45	0.49
36:Ca:143:U:H2'	36:Ca:144:G:O4'	2.13	0.49
39:Fa:65:TRP:O	39:Fa:69:ARG:NH1	2.45	0.49
39:Fa:135:VAL:HG11	39:Fa:142:VAL:HG11	1.94	0.49
44:Ka:174:LYS:HG2	74:X:127:LEU:HD13	1.94	0.49
76:Z:84:THR:O	76:Z:85:LEU:HD12	2.12	0.49
80:ba:51:VAL:HG12	80:ba:87:VAL:HG22	1.93	0.49
1:2b:122:U:N3	1:2b:123:G:N7	2.60	0.49
1:2b:518:A:O2'	1:2b:534:A:N6	2.46	0.49
1:2b:1254:U:OP2	15:Mb:46:ARG:NH1	2.45	0.49
2:Ab:8:ASP:OD1	2:Ab:9:LEU:N	2.45	0.49
7:Eb:9:LEU:HD12	7:Eb:10:LYS:N	2.28	0.49
7:Eb:189:LEU:HD12	7:Eb:190:GLY:N	2.27	0.49
10:Hb:64:VAL:HG23	10:Hb:67:LEU:HB2	1.94	0.49
12:Jb:22:SER:OG	12:Jb:23:ARG:N	2.42	0.49
15:Mb:70:ASN:O	15:Mb:74:LEU:HD23	2.13	0.49
36:3b:16:G:O2'	36:3b:17:A:OP2	2.29	0.49
36:3b:150:G:O2'	36:3b:152:G:OP1	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cy:318:LEU:H	39:Cy:324:LEU:HD13	1.78	0.49
40:Dy:132:THR:OG1	40:Dy:171:LEU:O	2.09	0.49
44:Hy:46:THR:CA	48:My:7:VAL:HG11	2.43	0.49
47:Ly:18:TRP:O	47:Ly:22:VAL:HG23	2.11	0.49
49:Ny:67:ARG:NH1	78:1b:2169:G:OP1	2.46	0.49
78:1b:648:C:O2	78:1b:2374:C:O2'	2.26	0.49
78:1b:3060:C:O2	78:1b:3332:U:O2'	2.26	0.49
1:a:823:G:O2'	1:a:824:G:O5'	2.30	0.49
1:a:1236:A:C1'	32:6:138:ARG:HH12	2.25	0.49
2:b:179:ARG:NH2	2:b:180:GLU:OE2	2.46	0.49
14:m:90:TYR:OH	14:m:105:LYS:NZ	2.33	0.49
17:p:135:ARG:O	17:p:137:LEU:HD12	2.12	0.49
26:z:41:ARG:HG3	26:z:57:VAL:HG22	1.95	0.49
30:4:26:SER:O	30:4:30:LEU:HD21	2.12	0.49
78:Aa:2568:C:O2'	78:Aa:2569:A:O4'	2.30	0.49
78:Aa:3160:U:N3	78:Aa:3291:G:N1	2.61	0.49
43:Ja:73:PRO:HA	43:Ja:76:ALA:HB3	1.94	0.49
43:Ja:81:THR:HG23	43:Ja:82:LEU:H	1.77	0.49
1:2b:111:U:O4	1:2b:112:A:N6	2.45	0.49
1:2b:197:A:N6	11:Ib:138:ASN:OD1	2.45	0.49
1:2b:1202:A:N6	1:2b:1457:C:O4'	2.38	0.49
1:2b:1365:C:O3'	18:Qb:30:LYS:NZ	2.46	0.49
3:Ba:46:THR:O	3:Ba:47:LEU:HD12	2.13	0.49
4:Pb:86:VAL:HG22	4:Pb:87:PRO:CD	2.37	0.49
11:Ib:89:GLU:O	11:Ib:93:THR:HG23	2.12	0.49
15:Mb:28:LEU:HA	15:Mb:31:VAL:HG22	1.95	0.49
31:eb:14:VAL:O	31:eb:17:GLN:N	2.45	0.49
33:gb:51:ASP:O	33:gb:53:LYS:N	2.45	0.49
36:3b:85:G:N1	60:Yy:112:ASP:OD2	2.46	0.49
38:By:41:VAL:HG11	38:By:194:TRP:CG	2.48	0.49
38:By:49:TYR:CZ	38:By:335:ILE:HD13	2.47	0.49
42:Fy:47:ARG:NH1	42:Fy:183:ASP:OD2	2.44	0.49
59:Xy:29:SER:OG	59:Xy:31:THR:N	2.46	0.49
61:Zy:89:VAL:HG23	61:Zy:89:VAL:O	2.12	0.49
62:ay:82:ILE:O	62:ay:87:ARG:NH2	2.42	0.49
78:1b:432:G:O6	78:1b:627:U:O4	2.30	0.49
78:1b:708:G:N2	78:1b:711:A:OP2	2.45	0.49
1:a:479:C:C2	1:a:510:G:N2	2.81	0.49
3:c:85:LYS:N	3:c:102:GLY:O	2.46	0.49
3:c:125:VAL:HG21	3:c:173:THR:HG23	1.94	0.49
9:h:70:PRO:O	9:h:71:THR:OG1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:n:63:VAL:HG21	15:n:66:VAL:CG1	2.43	0.49
78:Aa:640:U:H2'	78:Aa:641:C:C6	2.48	0.49
78:Aa:642:U:O4	66:P:38:ILE:HD12	2.13	0.49
78:Aa:719:U:O2	52:B:72:LYS:NZ	2.46	0.49
78:Aa:1724:U:H1'	78:Aa:1725:C:C6	2.47	0.49
78:Aa:1782:U:H2'	78:Aa:1783:U:O4'	2.13	0.49
78:Aa:2526:C:OP1	37:Da:38:HIS:NE2	2.45	0.49
78:Aa:2727:A:OP2	78:Aa:2728:G:N2	2.37	0.49
44:Ka:85:GLY:HA3	44:Ka:187:ILE:HD12	1.94	0.49
47:Na:85:LEU:HD23	47:Na:85:LEU:N	2.28	0.49
54:D:141:LYS:HG2	54:D:144:LEU:HD12	1.93	0.49
55:E:139:ARG:C	55:E:140:ILE:HD12	2.37	0.49
1:2b:733:A:N3	1:2b:736:C:N4	2.61	0.49
1:2b:1081:A:H2	1:2b:1082:C:H42	1.61	0.49
1:2b:1108:G:H22	25:Xb:22:ASN:HD22	1.60	0.49
3:Ba:103:MET:HE1	3:Ba:105:PHE:HE1	1.78	0.49
6:Db:109:LEU:HD22	6:Db:115:ILE:HD13	1.94	0.49
16:Nb:21:ASN:OD1	16:Nb:21:ASN:N	2.45	0.49
32:fb:123:ASN:CG	32:fb:144:CYS:SG	2.86	0.49
36:3b:10:A:H2	51:Py:6:ALA:HB2	1.78	0.49
36:3b:142:C:OP1	49:Ny:38:ARG:NH1	2.46	0.49
40:Dy:280:GLU:OE1	40:Dy:280:GLU:N	2.41	0.49
43:Gy:150:LEU:O	43:Gy:199:ALA:HB1	2.13	0.49
44:Hy:45:PHE:HD2	44:Hy:55:VAL:HG22	1.77	0.49
44:Hy:46:THR:HG22	44:Hy:47:LYS:O	2.13	0.49
49:Ny:121:VAL:HG23	49:Ny:122:ASN:N	2.27	0.49
50:Oy:148[A]:LYS:NZ	78:1b:3006:A:OP2	2.45	0.49
55:Ty:35:LYS:N	55:Ty:38:ASP:OD2	2.44	0.49
72:kb:2:ALA:N	72:kb:51:LEU:O	2.45	0.49
77:pb:3:LYS:CE	78:1b:851:C:H5'	2.43	0.49
1:a:187:G:O2'	1:a:198:A:N6	2.40	0.49
1:a:514:G:H1	1:a:543:C:H41	1.59	0.49
3:c:174:LYS:NZ	3:c:175:GLU:OE2	2.41	0.49
5:d:237:VAL:O	5:d:237:VAL:HG12	2.11	0.49
7:f:141:THR:OG1	7:f:145:ARG:O	2.27	0.49
7:f:154:ILE:HD11	7:f:172:PHE:CD1	2.47	0.49
19:s:27:ASP:O	19:s:31:ASN:ND2	2.46	0.49
20:t:140:THR:O	20:t:143:ARG:NH1	2.46	0.49
25:y:109:ARG:NH2	25:y:113:ALA:O	2.45	0.49
33:7:147:HIS:NE2	33:7:171:SER:OG	2.41	0.49
78:Aa:1900:A:N6	78:Aa:2334:U:C2	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:Ia:239:LEU:O	42:Ia:242:SER:OG	2.18	0.49
48:Oa:135:LEU:HD13	50:Qa:181:ALA:HB3	1.94	0.49
49:Pa:85:THR:HG22	76:Z:51:GLY:HA3	1.94	0.49
54:D:81:TYR:OH	54:D:90:MET:HE3	2.13	0.49
61:K:5:LEU:HD22	61:K:77:TYR:HE2	1.78	0.49
67:Q:52:VAL:HG22	67:Q:66:VAL:HG22	1.95	0.49
1:2b:229:U:N3	1:2b:237:C:C2	2.81	0.49
1:2b:821:U:N3	1:2b:852:C:C2	2.77	0.49
7:Eb:257:ALA:HB1	78:Aa:2539:C:O5'	2.13	0.49
32:fb:144:CYS:HB3	32:fb:147:VAL:HG13	1.95	0.49
35:4b:53:U:O2'	35:4b:55:A:N7	2.43	0.49
38:By:60:LEU:O	38:By:69:LYS:N	2.40	0.49
38:By:287:LYS:HB2	38:By:290:ASP:HB3	1.95	0.49
39:Cy:349:THR:HG22	78:1b:520:U:O4	2.13	0.49
41:Ey:58:LEU:HD12	41:Ey:62:THR:OG1	2.13	0.49
45:Iy:52:LEU:HD12	45:Iy:152:LEU:HB3	1.94	0.49
45:Iy:110:ARG:NH2	78:1b:2971:A:N7	2.60	0.49
45:Iy:166:ILE:HG22	45:Iy:167:LEU:O	2.12	0.49
58:Wy:23:ARG:O	58:Wy:26:SER:N	2.45	0.49
71:jb:31:LYS:O	71:jb:33:THR:HG23	2.12	0.49
1:a:522:U:OP1	26:z:37:LYS:NZ	2.42	0.49
1:a:1058:U:C4	1:a:1061:A:C6	3.01	0.49
13:l:22:VAL:C	13:l:64:TYR:O	2.56	0.49
33:7:34:LEU:HD11	33:7:42:LEU:HD23	1.94	0.49
78:Aa:110:G:OP2	47:Na:73:ARG:NH1	2.44	0.49
78:Aa:1063:G:H21	78:Aa:1097:G:HO2'	1.51	0.49
78:Aa:1092:C:O3'	55:E:120:LYS:NZ	2.45	0.49
78:Aa:1144:U:OP2	66:P:43:ARG:NH2	2.37	0.49
78:Aa:3150:A:O2'	78:Aa:3294:A:O2'	2.26	0.49
78:Aa:3172:A:O2'	50:Qa:101:ARG:NH2	2.45	0.49
45:La:201:SER:O	45:La:209:ASN:ND2	2.46	0.49
63:M:21:ILE:O	63:M:21:ILE:HG22	2.13	0.49
64:N:38:LYS:O	64:N:40:LYS:NZ	2.28	0.49
1:2b:125:U:OP1	9:Gb:201:GLN:NE2	2.46	0.49
7:Eb:21:ASP:OD1	7:Eb:21:ASP:N	2.44	0.49
9:Gb:89:ASP:OD1	9:Gb:90:GLY:N	2.45	0.49
10:Hb:90:VAL:O	10:Hb:91:ILE:HG23	2.12	0.49
36:3b:3:A:H2'	36:3b:4:C:H5'	1.95	0.49
37:Ay:117:GLU:OE2	37:Ay:121:GLY:N	2.46	0.49
38:By:373:PRO:O	38:By:377:HIS:N	2.40	0.49
39:Cy:203:ARG:HB2	39:Cy:203:ARG:CZ	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Dy:179:ARG:NH2	78:1b:2746:A:OP1	2.38	0.49
46:Jy:26:SER:OG	46:Jy:27:GLY:N	2.45	0.49
48:My:3:THR:OG1	48:My:4:ASP:N	2.45	0.49
49:Ny:68:ARG:HH12	78:1b:291:C:P	2.35	0.49
56:Uy:19:VAL:HG12	56:Uy:105:LEU:HD22	1.95	0.49
60:Yy:25:SER:OG	60:Yy:26:GLN:N	2.46	0.49
60:Yy:87:LYS:N	60:Yy:97:ILE:HD11	2.28	0.49
61:Zy:9:LYS:NZ	61:Zy:83:THR:O	2.39	0.49
65:dy:69:TYR:OH	78:1b:3059:G:OP2	2.30	0.49
78:1b:782:U:H2'	78:1b:783:A:O4'	2.12	0.49
78:1b:1254:C:N4	78:1b:1263:A:OP1	2.46	0.49
2:b:120:LEU:HD11	2:b:144:ILE:CD1	2.43	0.49
16:o:15:ALA:HB2	29:2:21:LEU:HD21	1.95	0.49
21:u:73:VAL:HG22	21:u:105:LEU:HD12	1.95	0.49
25:y:93:LEU:HA	25:y:96:VAL:HG12	1.95	0.49
26:z:35:VAL:HB	26:z:40:LEU:HD11	1.95	0.49
26:z:41:ARG:NH2	26:z:55:VAL:O	2.41	0.49
78:Aa:31:C:OP2	49:Pa:187:ARG:NH2	2.46	0.49
78:Aa:632:G:H21	67:Q:23:ASN:HD21	1.60	0.49
78:Aa:1538:G:H21	78:Aa:1583:A:H62	1.60	0.49
78:Aa:1550:C:HO2'	78:Aa:2167:A:H61	1.58	0.49
78:Aa:2323:G:O2'	78:Aa:2325:G:OP2	2.25	0.49
40:Ga:41:LYS:N	55:E:69:LYS:O	2.39	0.49
46:Ma:132:ASN:ND2	46:Ma:133:ARG:O	2.46	0.49
47:Na:86:THR:HG23	47:Na:89:TYR:H	1.77	0.49
56:F:104:ARG:NH1	56:F:106:ALA:HB2	2.28	0.49
57:G:19:VAL:HG13	57:G:37:ILE:HA	1.93	0.49
60:J:71:SER:N	60:J:81:GLN:O	2.46	0.49
65:O:80:ASN:N	65:O:88:PRO:O	2.38	0.49
80:ba:100:ILE:O	80:ba:185:LEU:HD11	2.13	0.49
1:2b:765:G:O6	12:Jb:149:ARG:NH2	2.46	0.48
1:2b:1187:U:O4	1:2b:1200:G:N2	2.46	0.48
3:Ba:146:GLN:N	3:Ba:149:GLN:OE1	2.45	0.48
35:4b:92:A:N6	35:4b:93:C:O2	2.45	0.48
38:By:28:ARG:NH2	78:1b:3140:G:N7	2.52	0.48
39:Cy:320:ASN:ND2	78:1b:608:A:OP1	2.44	0.48
43:Gy:112:GLU:OE1	43:Gy:126:SER:N	2.45	0.48
44:Hy:43:VAL:N	78:1b:3186:A:O2'	2.46	0.48
45:Iy:103:LEU:O	45:Iy:112:GLN:NE2	2.46	0.48
46:Jy:61:ARG:NH1	79:6b:56:C:OP1	2.43	0.48
65:dy:7:VAL:O	65:dy:7:VAL:HG22	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:1b:1242:G:O6	78:1b:1243:G:N1	2.46	0.48
1:a:74:U:O2'	58:H:116:LYS:HB3	2.13	0.48
1:a:92:A:N6	9:h:89:ASP:OD2	2.46	0.48
1:a:962:C:H5''	16:o:72:MET:HE2	1.94	0.48
1:a:1452:U:HO2'	4:q:79:HIS:CG	2.25	0.48
3:c:61:LEU:CG	3:c:96:LEU:HD13	2.43	0.48
7:f:214:LEU:HD22	7:f:244:ILE:HD11	1.94	0.48
8:g:162:VAL:HG23	8:g:166:ARG:HD3	1.95	0.48
14:m:80:MET:HB2	14:m:83:THR:HG23	1.95	0.48
4:q:89:MET:O	4:q:107:ILE:HD11	2.13	0.48
33:7:294:TRP:CD2	33:7:301:LEU:HD13	2.47	0.48
78:Aa:268:A:OP1	49:Pa:47:LYS:NZ	2.46	0.48
78:Aa:1318:A:OP1	50:Qa:128:ARG:NH2	2.44	0.48
78:Aa:2597:U:O2'	49:Pa:126:THR:HG23	2.13	0.48
37:Da:5:ILE:HG22	37:Da:208:ASP:O	2.12	0.48
37:Da:65:ASP:OD1	37:Da:68:LYS:N	2.45	0.48
39:Fa:226:GLU:N	39:Fa:226:GLU:OE1	2.45	0.48
41:Ha:4:GLN:OE1	66:P:75:LEU:N	2.43	0.48
42:Ia:216:VAL:HG11	42:Ia:227:GLY:HA2	1.94	0.48
49:Pa:64:VAL:HG22	49:Pa:65:ARG:N	2.27	0.48
59:I:63:ILE:HD11	59:I:84:PHE:CG	2.48	0.48
66:P:35:GLN:OE1	66:P:36:LYS:N	2.42	0.48
1:2b:1203:A:H61	1:2b:1553:G:H1'	1.78	0.48
1:2b:1606:C:OP2	18:Qb:127:LYS:N	2.33	0.48
4:Pb:33:PHE:CZ	4:Pb:112:LEU:HD22	2.48	0.48
15:Mb:62:LEU:HD12	15:Mb:75:VAL:HG11	1.95	0.48
32:fb:141:CYS:SG	32:fb:144:CYS:N	2.86	0.48
37:Ay:242:ARG:O	37:Ay:243:THR:OG1	2.29	0.48
38:By:346:THR:OG1	38:By:347:SER:N	2.45	0.48
48:My:77:ARG:NH2	78:1b:525:C:OP2	2.41	0.48
50:Oy:113[A]:ASP:OD1	50:Oy:113[A]:ASP:N	2.39	0.48
54:Sy:77:VAL:HG12	54:Sy:78:TRP:N	2.28	0.48
59:Xy:50:ALA:HB3	69:hb:79:ASP:OD2	2.13	0.48
61:Zy:84:ARG:NE	68:gy:97:GLU:OE1	2.46	0.48
68:gy:53:GLY:N	78:1b:1738:C:O2'	2.40	0.48
78:1b:677:A:O5'	78:1b:786:A:N6	2.47	0.48
1:a:1548:G:N1	1:a:1564:U:N3	2.60	0.48
5:d:188:LEU:HD23	5:d:196:VAL:HG11	1.95	0.48
6:e:127:MET:HE1	6:e:133:GLY:HA2	1.95	0.48
7:f:111:VAL:HG23	7:f:111:VAL:O	2.13	0.48
9:h:132:ARG:C	9:h:133:LEU:HD12	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:5:48:THR:OG1	31:5:49:LEU:N	2.47	0.48
78:Aa:1064:A:C2	78:Aa:1066:G:O6	2.66	0.48
78:Aa:1312:C:O2'	50:Qa:83:ALA:O	2.30	0.48
78:Aa:1431:G:N7	62:L:9:ARG:NH2	2.61	0.48
78:Aa:2837:A:OP2	78:Aa:2845:A:N6	2.46	0.48
40:Ga:180:PHE:HB2	40:Ga:190:ILE:HD11	1.94	0.48
47:Na:80:VAL:O	47:Na:83:ALA:N	2.45	0.48
1:2b:188:A:H62	1:2b:197:A:H8	1.58	0.48
1:2b:566:C:O3'	31:eb:10:ARG:NH2	2.41	0.48
1:2b:1338:C:N3	1:2b:1387:G:N2	2.61	0.48
1:2b:1389:C:H2'	1:2b:1390:U:H4'	1.94	0.48
1:2b:1523:G:H21	1:2b:1523:G:P	2.36	0.48
35:4b:47:C:OP1	40:Dy:95:TRP:N	2.43	0.48
38:By:206:ASP:OD1	38:By:206:ASP:N	2.43	0.48
39:Cy:125:ALA:O	39:Cy:128:ALA:HB3	2.13	0.48
39:Cy:307:GLN:OE1	78:1b:1345:G:N2	2.45	0.48
42:Fy:155:LYS:NZ	78:1b:1102:A:OP2	2.46	0.48
49:Ny:75:VAL:HG23	49:Ny:78:GLY:HA2	1.96	0.48
50:Oy:43[A]:ILE:O	50:Oy:136[A]:THR:HG22	2.13	0.48
57:Vy:39:VAL:HG21	57:Vy:52:ALA:HB2	1.94	0.48
66:ey:33:ARG:NE	78:1b:944:C:O2'	2.46	0.48
72:kb:8:ILE:O	72:kb:11:PHE:N	2.47	0.48
78:1b:444:U:C4	78:1b:491:A:C6	3.01	0.48
78:1b:837:A:H2'	78:1b:838:G:O4'	2.14	0.48
78:1b:2157:G:N2	78:1b:2178:A:OP2	2.42	0.48
78:1b:2287:C:N4	78:1b:2926:A:N3	2.62	0.48
1:a:774:A:N6	1:a:786:C:O2	2.47	0.48
20:t:28:ILE:CG1	20:t:61:LEU:HD11	2.43	0.48
26:z:43:LYS:O	26:z:47:VAL:HG13	2.13	0.48
33:7:153:GLN:OE1	33:7:155:ARG:NH2	2.46	0.48
78:Aa:251:G:N2	78:Aa:253:A:N3	2.62	0.48
36:Ca:24:G:OP2	60:J:17:LYS:NZ	2.39	0.48
36:Ca:72:A:N6	36:Ca:79:A:H61	2.10	0.48
39:Fa:30:ILE:HD11	39:Fa:127:ALA:CB	2.43	0.48
55:E:17:ARG:NH2	55:E:23:GLY:O	2.46	0.48
1:2b:191:C:H2'	1:2b:192:U:C1'	2.44	0.48
9:Gb:49:VAL:HB	9:Gb:115:LYS:HZ2	1.78	0.48
18:Qb:27:GLY:N	18:Qb:63:ILE:O	2.35	0.48
37:Ay:199:THR:HG22	37:Ay:200:ARG:N	2.28	0.48
40:Dy:98:ALA:O	40:Dy:101:THR:N	2.47	0.48
40:Dy:104:LEU:HA	40:Dy:247:ILE:HG23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:Ey:140:VAL:O	41:Ey:143:LYS:HG2	2.12	0.48
45:Iy:3:ARG:NH2	78:1b:2854:U:OP2	2.47	0.48
45:Iy:188:GLY:N	45:Iy:189:GLU:OE1	2.47	0.48
46:Jy:84:LEU:O	46:Jy:89:TYR:N	2.44	0.48
49:Ny:12:ARG:NH1	78:1b:268:A:N7	2.62	0.48
61:Zy:94:SER:OG	61:Zy:95:VAL:N	2.46	0.48
77:pb:39:CYS:CB	77:pb:42:CYS:SG	3.01	0.48
78:1b:87:U:OP2	78:1b:98:G:N1	2.43	0.48
78:1b:1204:A:N6	78:1b:1300:G:O2'	2.42	0.48
78:1b:1432:C:O2'	78:1b:1434:G:OP2	2.28	0.48
78:1b:3048:A:N6	78:1b:3091:A:OP2	2.45	0.48
79:6b:17:U:O2'	79:6b:57:G:N2	2.47	0.48
1:a:505:A:N1	1:a:507:U:O4	2.45	0.48
1:a:958:U:P	29:2:20:LYS:HZ1	2.35	0.48
1:a:1504:G:N3	1:a:1563:C:O2'	2.43	0.48
7:f:62:LYS:CD	7:f:65:LEU:HD12	2.43	0.48
19:s:51:ALA:O	19:s:54:THR:OG1	2.27	0.48
28:1:94:ASN:OD1	28:1:95:ARG:N	2.46	0.48
78:Aa:220:G:C5	78:Aa:1389:G:N2	2.81	0.48
78:Aa:1861:G:H2'	78:Aa:1862:U:O4'	2.13	0.48
35:Bb:3:U:O2'	35:Bb:25:G:N3	2.44	0.48
40:Ga:51:LEU:HD23	40:Ga:51:LEU:C	2.38	0.48
46:Ma:171:VAL:HG12	46:Ma:172:LEU:H	1.77	0.48
60:J:82:VAL:HG12	60:J:83:ASP:O	2.13	0.48
76:Z:88:CYS:SG	76:Z:89:LYS:N	2.87	0.48
1:2b:331:A:O2'	11:Ib:31:ARG:N	2.40	0.48
1:2b:1781:A:H2'	1:2b:1782:A:O4'	2.14	0.48
7:Eb:211:LYS:CB	7:Eb:217:THR:HG22	2.42	0.48
15:Mb:35:ALA:O	15:Mb:40:GLY:N	2.46	0.48
15:Mb:59:LEU:HD23	15:Mb:60:VAL:N	2.29	0.48
29:bb:74:SER:HB2	29:bb:77:THR:HG21	1.94	0.48
38:By:178:LEU:HD12	38:By:179:ALA:H	1.79	0.48
54:Sy:158:LYS:NZ	78:1b:1182:A:OP1	2.46	0.48
61:Zy:119:GLU:O	61:Zy:123:GLN:N	2.37	0.48
70:ib:59:ASP:OD1	70:ib:60:LEU:N	2.47	0.48
73:lb:41:ARG:NH1	78:1b:1517:G:OP1	2.45	0.48
78:1b:2217:U:C2	78:1b:2218:G:C8	3.02	0.48
1:a:312:A:N6	1:a:353:A:H62	2.12	0.48
1:a:1334:U:O3'	22:v:85:ARG:NH1	2.40	0.48
1:a:1523:G:N7	21:u:64:HIS:NE2	2.59	0.48
7:f:32:SER:OG	7:f:33:ALA:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:1010:G:O2'	45:La:40:LYS:NZ	2.47	0.48
78:Aa:1108:U:H2'	78:Aa:1109:U:C6	2.49	0.48
78:Aa:2761:G:OP1	76:Z:67:LYS:NZ	2.38	0.48
78:Aa:2837:A:O2'	78:Aa:2838:A:OP2	2.29	0.48
37:Da:215:ASN:O	37:Da:216:HIS:ND1	2.46	0.48
38:Ea:360:ASP:OD1	38:Ea:361:THR:N	2.47	0.48
40:Ga:257:GLU:OE1	40:Ga:257:GLU:N	2.44	0.48
50:Qa:39:GLU:OE1	50:Qa:39:GLU:N	2.42	0.48
51:A:61:ARG:O	51:A:64:ASN:ND2	2.46	0.48
57:G:85:TRP:O	57:G:93:LEU:HD23	2.14	0.48
64:N:10:ILE:H	64:N:10:ILE:HD12	1.78	0.48
77:aa:20:SER:OG	77:aa:21:SER:N	2.46	0.48
1:2b:708:C:O2'	1:2b:730:G:O4'	2.28	0.48
7:Eb:64:ILE:HG13	26:Yb:18:LEU:HD21	1.95	0.48
20:Sb:14:ILE:HG22	20:Sb:23:ASP:HA	1.96	0.48
35:4b:31:U:O3'	40:Dy:218:ARG:NH2	2.45	0.48
37:Ay:71:LEU:O	37:Ay:73:GLU:N	2.46	0.48
37:Ay:96:LEU:HD23	37:Ay:96:LEU:C	2.39	0.48
40:Dy:23:ARG:NH2	78:1b:2703:A:OP2	2.46	0.48
45:Iy:166:ILE:CG2	55:Ty:160:ILE:HD11	2.34	0.48
45:Iy:200:LEU:HD12	45:Iy:213:PHE:CB	2.42	0.48
48:My:21:VAL:HG11	48:My:35:ILE:HG13	1.96	0.48
51:Py:101:ASN:ND2	78:1b:389:A:O4'	2.46	0.48
52:Qy:134:GLY:O	52:Qy:137:THR:OG1	2.27	0.48
54:Sy:87:THR:O	54:Sy:88:HIS:ND1	2.47	0.48
72:kb:7:ASP:OD1	72:kb:7:ASP:N	2.47	0.48
78:1b:408:A:H2'	78:1b:409:A:O4'	2.13	0.48
1:a:96:G:O2'	1:a:426:G:O2'	2.08	0.48
1:a:1516:A:OP2	22:v:61:LYS:NZ	2.47	0.48
78:Aa:218:G:N1	60:J:62:SER:OG	2.36	0.48
78:Aa:1779:C:N4	53:C:88:ARG:O	2.46	0.48
78:Aa:2561:A:C5	78:Aa:2579:G:N2	2.81	0.48
50:Qa:3:VAL:HG13	50:Qa:4:GLU:CD	2.39	0.48
69:S:21:LEU:HB2	69:S:54:VAL:HG11	1.95	0.48
76:Z:73:GLU:OE1	76:Z:80:ARG:NH1	2.47	0.48
1:2b:1050:G:H2'	1:2b:1051:G:O4'	2.14	0.48
5:Cb:139:ILE:HD11	5:Cb:218:ILE:HD12	1.95	0.48
5:Cb:156:THR:O	5:Cb:158:THR:HG23	2.13	0.48
7:Eb:156:VAL:HG12	7:Eb:157:ASN:N	2.29	0.48
7:Eb:185:GLY:H	7:Eb:189:LEU:HD13	1.79	0.48
8:Fb:30:PRO:HB2	8:Fb:33:VAL:HG12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Ib:85:PRO:O	14:Lb:11:ARG:NE	2.45	0.48
18:Qb:114:ARG:O	18:Qb:118:ILE:HG22	2.13	0.48
39:Cy:74:ILE:HD12	78:1b:804:C:O2'	2.13	0.48
47:Ly:165:SER:O	47:Ly:167:PHE:N	2.47	0.48
62:ay:24:LYS:O	62:ay:26:ARG:N	2.47	0.48
71:jb:35:SER:OG	78:1b:814:U:H4'	2.14	0.48
76:ob:45:ARG:NH2	78:1b:280:U:O4	2.46	0.48
78:1b:114:A:N1	78:1b:266:A:O2'	2.45	0.48
78:1b:2618:G:N2	78:1b:2645:G:OP1	2.42	0.48
78:1b:3313:U:N3	78:1b:3314:A:N7	2.62	0.48
79:6b:33:U:N3	79:6b:36:U:OP2	2.46	0.48
1:a:753:A:N7	7:f:187:ARG:NH2	2.59	0.48
5:d:126:ARG:O	5:d:130:ILE:HD12	2.13	0.48
10:i:46:ILE:HG21	10:i:58:LEU:HD22	1.94	0.48
24:x:37:PHE:CE2	24:x:103:ILE:HD11	2.48	0.48
78:Aa:240:U:HO2'	78:Aa:241:G:P	2.36	0.48
78:Aa:1592:G:OP1	68:R:58:ARG:NH2	2.47	0.48
78:Aa:1803:C:H5'	68:R:63:ALA:HB2	1.95	0.48
78:Aa:2565:U:O2	78:Aa:2576:G:N2	2.40	0.48
39:Fa:253:ALA:O	39:Fa:256:THR:OG1	2.30	0.48
40:Ga:197:SER:O	40:Ga:202:GLY:N	2.41	0.48
55:E:57:TYR:CE2	55:E:89:LEU:HD21	2.48	0.48
70:T:30:LYS:O	70:T:32:ALA:N	2.45	0.48
1:2b:906:A:OP1	17:Ob:52:ARG:NH2	2.46	0.48
1:2b:1010:C:H2'	1:2b:1011:G:O4'	2.14	0.48
3:Ba:153:HIS:O	3:Ba:154:SER:OG	2.19	0.48
4:Pb:78:THR:OG1	4:Pb:80:MET:HE2	2.13	0.48
5:Cb:45:VAL:HG22	5:Cb:50:ILE:HB	1.95	0.48
5:Cb:76:LEU:C	5:Cb:76:LEU:HD12	2.39	0.48
14:Lb:142:VAL:HG12	14:Lb:143:SER:N	2.29	0.48
21:Tb:22:LEU:H	21:Tb:22:LEU:HD12	1.78	0.48
36:3b:36:G:N2	78:1b:21:G:OP2	2.47	0.48
37:Ay:40:TYR:N	78:1b:2550:U:O4	2.38	0.48
39:Cy:264:SER:HG	39:Cy:267:VAL:HG22	1.78	0.48
48:My:128:ARG:NH1	78:1b:3214:U:OP2	2.41	0.48
51:Py:97:ASN:ND2	78:1b:382:U:O2	2.40	0.48
52:Qy:74:GLU:OE1	78:1b:740:G:O2'	2.31	0.48
55:Ty:55:LYS:NZ	78:1b:2640:A:OP1	2.43	0.48
57:Vy:78:VAL:HG12	57:Vy:79:VAL:N	2.27	0.48
78:1b:1562:C:H42	78:1b:1578:C:H42	1.61	0.48
78:1b:2916:U:H5	78:1b:2935:U:HO2'	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:351:C:O2	14:m:104:HIS:ND1	2.44	0.48
3:c:210:ILE:HD12	3:c:210:ILE:H	1.78	0.48
10:i:154:LEU:HD11	10:i:183:PHE:HB3	1.96	0.48
18:r:63:ILE:HD12	18:r:65:ILE:HD11	1.95	0.48
26:z:126:ALA:HA	26:z:129:VAL:HG12	1.96	0.48
78:Aa:354:U:OP2	78:Aa:364:G:N1	2.43	0.48
78:Aa:590:G:C2	78:Aa:610:G:H2'	2.49	0.48
78:Aa:1841:A:C5	78:Aa:1848:G:N2	2.82	0.48
78:Aa:1900:A:N7	78:Aa:2334:U:C4	2.82	0.48
78:Aa:2393:G:O2'	78:Aa:2394:G:OP2	2.27	0.48
39:Fa:131:VAL:HG11	39:Fa:134:LEU:HG	1.96	0.48
45:La:31:ILE:O	45:La:31:ILE:HG23	2.13	0.48
1:2b:556:A:N3	1:2b:590:C:O2'	2.32	0.48
1:2b:628:G:O3'	78:1b:846:A:H1'	2.14	0.48
1:2b:774:A:N6	1:2b:786:C:N4	2.61	0.48
1:2b:885:G:H21	17:Ob:123:SER:CB	2.27	0.48
1:2b:1049:U:O3'	29:bb:70:LYS:NZ	2.34	0.48
1:2b:1523:G:OP2	1:2b:1523:G:N2	2.44	0.48
1:2b:1596:C:H3'	30:db:32:ARG:HH12	1.79	0.48
1:2b:1684:U:O2	1:2b:1717:G:N2	2.46	0.48
11:Ib:190:ALA:HA	11:Ib:193:LEU:HD12	1.96	0.48
18:Qb:143:ARG:NE	79:6b:35:U:OP2	2.46	0.48
29:bb:55:THR:HG21	29:bb:60:SER:HA	1.96	0.48
33:gb:126:SER:OG	33:gb:127:ARG:N	2.46	0.48
38:By:162:VAL:O	38:By:178:LEU:HD12	2.13	0.48
39:Cy:4:PRO:O	39:Cy:5:GLN:HG2	2.14	0.48
39:Cy:220:ARG:NH2	78:1b:211:A:OP1	2.47	0.48
40:Dy:51:LEU:N	40:Dy:145:PHE:O	2.37	0.48
52:Qy:87:VAL:O	52:Qy:107:THR:HG23	2.14	0.48
54:Sy:161:LYS:NZ	78:1b:3209:A:OP1	2.37	0.48
67:fy:60:ARG:NH1	78:1b:622:A:O4'	2.46	0.48
78:1b:2101:C:O2'	78:1b:2102:U:O5'	2.30	0.48
78:1b:3127:A:C2'	78:1b:3128:G:O5'	2.62	0.48
1:a:1470:C:O4'	1:a:1540:G:N2	2.47	0.48
6:e:44:THR:O	6:e:44:THR:OG1	2.31	0.48
9:h:33:GLY:CA	9:h:52:ILE:O	2.62	0.48
10:i:132:PRO:O	10:i:133:THR:OG1	2.31	0.48
16:o:40:TYR:CE2	16:o:54:LEU:HD21	2.48	0.48
16:o:48:SER:O	16:o:52:VAL:HG23	2.13	0.48
18:r:143:ARG:NH2	79:8:32:C:OP2	2.47	0.48
26:z:54:ALA:O	26:z:76:TYR:N	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:O:59:TYR:OH	27:O:98:GLN:NE2	2.47	0.48
78:Aa:21:G:OP2	36:Ca:36:G:N2	2.46	0.48
78:Aa:80:G:C6	78:Aa:106:A:N6	2.82	0.48
78:Aa:655:C:OP2	66:P:27:ARG:NE	2.36	0.48
78:Aa:1502:C:C4	78:Aa:1515:A:C6	3.02	0.48
78:Aa:2510:U:O2'	78:Aa:2511:A:OP2	2.23	0.48
40:Ga:107:ARG:NH1	40:Ga:120:LYS:O	2.46	0.48
42:Ia:190:THR:OG1	42:Ia:190:THR:O	2.30	0.48
44:Ka:75:VAL:HA	44:Ka:78:MET:HE3	1.95	0.48
51:A:7:THR:HG22	51:A:116:HIS:CG	2.49	0.48
59:I:66:PRO:HG2	69:S:33:VAL:HG22	1.96	0.48
60:J:40:ARG:O	60:J:44:GLY:HA2	2.14	0.48
77:aa:39:CYS:CB	77:aa:42:CYS:HG	2.26	0.48
77:aa:39:CYS:SG	77:aa:60:CYS:SG	3.12	0.48
1:2b:486:G:C6	1:2b:501:U:N3	2.82	0.48
1:2b:629:U:OP1	16:Nb:127:ARG:NH1	2.47	0.48
1:2b:685:A:H2'	1:2b:686:C:O4'	2.14	0.48
8:Fb:189:THR:N	8:Fb:192:GLU:OE2	2.44	0.48
11:Ib:83:TYR:HB2	11:Ib:196:LEU:HD21	1.95	0.48
15:Mb:52:LEU:HD21	15:Mb:60:VAL:HG21	1.96	0.48
20:Sb:17:LEU:O	20:Sb:20:THR:N	2.47	0.48
35:4b:80:G:O2'	78:1b:996:A:N3	2.46	0.48
42:Fy:88:ARG:NH2	42:Fy:91:GLY:O	2.44	0.48
49:Ny:17:ASP:OD1	49:Ny:18:VAL:N	2.46	0.48
49:Ny:48:ALA:HB1	49:Ny:53:TYR:CB	2.43	0.48
49:Ny:60:VAL:HG12	49:Ny:61:ILE:N	2.27	0.48
52:Qy:30:VAL:O	52:Qy:34:THR:HG22	2.14	0.48
53:Ry:74:ARG:NE	78:1b:1942:U:OP2	2.46	0.48
54:Sy:78:TRP:HB3	54:Sy:124:LEU:HD12	1.96	0.48
59:Xy:81:ILE:HG22	59:Xy:82:LEU:N	2.29	0.48
61:Zy:33:SER:N	61:Zy:36:HIS:O	2.46	0.48
78:1b:1064:A:C2	78:1b:1092:C:N4	2.81	0.48
78:1b:1293:U:H2'	78:1b:1294:A:O4'	2.13	0.48
78:1b:2521:U:O2'	78:1b:2524:A:OP1	2.24	0.48
1:a:231:U:O2'	1:a:233:C:OP2	2.31	0.48
1:a:1116:A:N6	1:a:1130:G:O2'	2.47	0.48
3:c:61:LEU:HG	3:c:96:LEU:HD13	1.95	0.48
7:f:29:PRO:O	7:f:81:THR:HG21	2.14	0.48
22:v:26:LEU:CD2	22:v:114:VAL:HG23	2.44	0.48
34:3:32:PHE:CZ	34:3:40:ILE:HD13	2.49	0.48
33:7:86:ASP:O	33:7:88:THR:HG23	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:44:U:O4'	76:Z:54:THR:HG22	2.14	0.48
78:Aa:170:G:N1	78:Aa:249:U:N3	2.62	0.48
78:Aa:1903:U:N3	78:Aa:1906:G:OP2	2.42	0.48
78:Aa:2203:U:H2'	78:Aa:2204:C:C6	2.49	0.48
78:Aa:2232:A:H2'	78:Aa:2233:A:O4'	2.14	0.48
36:Ca:152:G:OP1	43:Ja:60:ARG:NH2	2.40	0.48
39:Fa:70:ALA:O	39:Fa:71:VAL:HG23	2.14	0.48
39:Fa:74:ILE:HD11	39:Fa:90:PHE:O	2.13	0.48
39:Fa:337:GLU:HB2	39:Fa:339:LEU:HD23	1.95	0.48
44:Ka:177:ASP:OD1	44:Ka:178:GLY:N	2.46	0.48
47:Na:6:ASN:HB2	62:L:48:TYR:CD2	2.49	0.48
47:Na:76:THR:HG21	47:Na:103:ASN:HD21	1.78	0.48
57:G:27:ASP:OD1	57:G:29:SER:OG	2.08	0.48
67:Q:6:ARG:C	67:Q:7:LEU:HD23	2.39	0.48
1:2b:1047:G:O6	1:2b:1072:C:N4	2.47	0.47
1:2b:1394:G:P	33:gb:284:ALA:HB2	2.54	0.47
14:Lb:35:TYR:CE2	14:Lb:49:ILE:HG23	2.48	0.47
17:Ob:135:ARG:O	17:Ob:137:LEU:HD22	2.14	0.47
23:Vb:27:ASP:O	23:Vb:29:HIS:N	2.46	0.47
26:Yb:47:VAL:O	26:Yb:49:LYS:NZ	2.34	0.47
29:bb:34:ASP:O	29:bb:36:LYS:NZ	2.45	0.47
49:Ny:47:LYS:NZ	78:1b:269:G:OP1	2.44	0.47
59:Xy:58:ASP:OD1	59:Xy:61:LYS:N	2.46	0.47
71:jb:45:ARG:O	71:jb:46:SER:OG	2.27	0.47
78:1b:177:U:O2	78:1b:241:G:C2	2.66	0.47
78:1b:2297:U:O2'	78:1b:2298:U:O5'	2.27	0.47
78:1b:3116:G:OP1	78:1b:3116:G:N2	2.47	0.47
8:g:200:ASN:O	8:g:204:GLY:CA	2.61	0.47
11:j:93:THR:CB	11:j:95:THR:HG1	2.26	0.47
22:v:113:ASP:OD1	22:v:114:VAL:N	2.47	0.47
23:w:64:GLU:HB3	29:2:3:LEU:HD13	1.95	0.47
25:y:87:VAL:HG21	25:y:93:LEU:HD13	1.96	0.47
27:0:39:ALA:HB3	27:0:70:LYS:O	2.14	0.47
78:Aa:1543:G:OP1	49:Pa:35:VAL:HG23	2.14	0.47
78:Aa:1678:G:OP2	56:F:77:LYS:NZ	2.41	0.47
78:Aa:2736:A:OP2	55:E:50:LYS:NZ	2.31	0.47
46:Ma:60:ARG:NH1	46:Ma:63:GLU:OE2	2.47	0.47
51:A:67:ILE:HG22	51:A:68:GLY:N	2.28	0.47
55:E:143:THR:OG1	55:E:146:ASN:O	2.20	0.47
80:ba:102:SER:O	80:ba:105:VAL:HG12	2.14	0.47
1:2b:1386:G:H2'	1:2b:1387:G:O4'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:1793:G:O6	28:ab:34:LYS:NZ	2.47	0.47
5:Cb:147:ASN:OD1	5:Cb:147:ASN:N	2.47	0.47
7:Eb:208:VAL:HG13	7:Eb:210:ILE:HD11	1.97	0.47
33:gb:177:MET:SD	33:gb:179:LYS:NZ	2.87	0.47
39:Cy:101:ALA:HB2	78:1b:662:U:H1'	1.96	0.47
48:My:123:LEU:HD12	50:Oy:194[A]:LEU:CD2	2.44	0.47
50:Oy:181[A]:ALA:O	50:Oy:184[A]:THR:OG1	2.26	0.47
52:Qy:48:VAL:O	52:Qy:51:ALA:N	2.46	0.47
54:Sy:19:VAL:O	54:Sy:19:VAL:HG13	2.14	0.47
61:Zy:85:TYR:OH	68:gy:97:GLU:OE2	2.17	0.47
65:dy:29:ALA:HB3	65:dy:30:PRO:HD3	1.96	0.47
74:mb:118:THR:OG1	74:mb:119:ASN:N	2.46	0.47
77:pb:24:ARG:O	77:pb:27:LYS:N	2.45	0.47
78:1b:735:A:H2'	78:1b:736:A:O4'	2.14	0.47
78:1b:1264:G:N2	78:1b:1265:U:O4	2.47	0.47
78:1b:1794:G:O2'	78:1b:1796:G:N2	2.46	0.47
10:i:127:GLU:O	10:i:131:PHE:HA	2.13	0.47
11:j:72:ILE:HD12	11:j:74:LYS:HE2	1.95	0.47
12:k:105:LEU:O	12:k:111:THR:HG21	2.15	0.47
15:n:63:VAL:HG21	15:n:66:VAL:HG13	1.97	0.47
21:u:105:LEU:HD13	21:u:122:ARG:HH11	1.78	0.47
27:0:80:LEU:HD22	27:0:101:TYR:CD1	2.49	0.47
28:1:84:VAL:HG12	28:1:85:ARG:N	2.29	0.47
33:7:121:MET:HE2	33:7:167:VAL:HG11	1.95	0.47
78:Aa:720:A:O2'	78:Aa:784:A:OP2	2.21	0.47
78:Aa:776:U:OP1	63:M:41:ARG:NH2	2.43	0.47
78:Aa:950:G:N1	78:Aa:1368:U:OP2	2.40	0.47
78:Aa:1620:U:O2	78:Aa:1825:G:C2	2.67	0.47
54:D:117:ARG:O	54:D:120:SER:N	2.47	0.47
70:T:53:TYR:O	70:T:57:LEU:HD23	2.13	0.47
2:Ab:175:TYR:OH	2:Ab:197:ILE:O	2.30	0.47
3:Ba:114:VAL:HA	3:Ba:142:PHE:HE2	1.80	0.47
5:Cb:45:VAL:O	5:Cb:48:GLY:N	2.47	0.47
8:Fb:139:ASN:C	8:Fb:214:LYS:HZ3	2.22	0.47
8:Fb:150:GLY:HA3	8:Fb:155:ALA:HB2	1.95	0.47
9:Gb:4:ASN:HB2	9:Gb:15:THR:HG22	1.96	0.47
33:gb:297:ASP:N	33:gb:297:ASP:OD1	2.47	0.47
38:By:26:ARG:NH2	38:By:178:LEU:O	2.47	0.47
46:Jy:156:LYS:O	46:Jy:160:VAL:HG22	2.13	0.47
59:Xy:80:ASN:ND2	59:Xy:130:TYR:O	2.46	0.47
78:1b:1565:G:N2	78:1b:1575:A:N7	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:339:C:P	11:j:10:LYS:HZ3	2.37	0.47
1:a:499:U:O2'	1:a:500:C:O5'	2.29	0.47
3:c:61:LEU:HD23	3:c:91:VAL:CG2	2.44	0.47
20:t:92:ILE:HG13	20:t:93:THR:HG23	1.96	0.47
78:Aa:119:U:O3'	43:Ja:133:LYS:NZ	2.45	0.47
78:Aa:375:A:O4'	60:J:87:LYS:NZ	2.38	0.47
78:Aa:716:A:N3	62:L:117:ARG:NH2	2.62	0.47
78:Aa:2746:A:H2	40:Ga:146:LEU:HD22	1.79	0.47
44:Ka:93:VAL:HB	74:X:78:ILE:HD11	1.95	0.47
48:Oa:126:GLN:O	48:Oa:130:THR:HG23	2.14	0.47
50:Qa:37:ARG:NE	50:Qa:40:GLU:OE2	2.47	0.47
56:F:44:GLU:OE1	56:F:44:GLU:N	2.47	0.47
77:aa:55:TRP:NE1	77:aa:67:GLY:O	2.43	0.47
1:2b:487:G:O6	1:2b:501:U:O4	2.32	0.47
1:2b:630:A:C6	78:1b:846:A:N6	2.82	0.47
5:Cb:81:MET:HE3	5:Cb:103:VAL:HG21	1.96	0.47
6:Db:204:ASP:N	6:Db:204:ASP:OD1	2.47	0.47
20:Sb:50:ALA:HB3	20:Sb:52:VAL:HG23	1.97	0.47
21:Tb:33:TYR:HE1	21:Tb:100:ILE:HD13	1.79	0.47
27:Zb:42:LEU:HD23	27:Zb:42:LEU:H	1.79	0.47
33:gb:124:SER:OG	33:gb:132:LYS:O	2.30	0.47
33:gb:210:LEU:HD12	33:gb:211:ILE:H	1.80	0.47
36:3b:85:G:O2'	36:3b:86:U:O5'	2.32	0.47
39:Cy:14:GLU:HG2	39:Cy:15:ALA:N	2.29	0.47
39:Cy:259:ASP:N	39:Cy:259:ASP:OD1	2.45	0.47
49:Ny:124:ASP:OD1	49:Ny:127:TYR:N	2.40	0.47
52:Qy:175:ALA:HB3	62:ay:51:GLY:O	2.14	0.47
66:ey:117:ILE:HG22	66:ey:118:LYS:N	2.30	0.47
67:fy:72:THR:HG21	67:fy:84:THR:OG1	2.14	0.47
78:1b:2255:A:OP2	78:1b:2261:G:N1	2.40	0.47
1:a:249:U:H3'	1:a:250:C:H5'	1.95	0.47
1:a:1134:C:OP1	25:y:121:ARG:NH1	2.46	0.47
1:a:1136:U:OP1	25:y:62:LYS:NZ	2.43	0.47
1:a:1151:A:OP2	1:a:1766:A:O2'	2.31	0.47
6:e:137:VAL:HG22	6:e:151:LYS:HG3	1.95	0.47
8:g:39:GLU:OE1	8:g:39:GLU:N	2.46	0.47
9:h:175:ILE:HB	9:h:178:LEU:HD22	1.96	0.47
9:h:178:LEU:O	9:h:180:THR:HG23	2.14	0.47
4:q:90:ILE:HD11	4:q:112:LEU:CD2	2.43	0.47
21:u:80:TYR:C	21:u:96:ALA:HB2	2.39	0.47
27:0:49:ARG:HB3	27:0:69:LEU:HD21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:240:U:O2'	78:Aa:241:G:O5'	2.27	0.47
78:Aa:1136:A:O4'	78:Aa:2636:A:N6	2.47	0.47
36:Ca:84:C:O2	60:J:113:LYS:N	2.48	0.47
62:L:118:ILE:HB	62:L:119:PRO:CD	2.44	0.47
1:2b:1014:G:H2'	1:2b:1015:U:O4'	2.14	0.47
1:2b:1294:G:O6	1:2b:1303:U:C4	2.67	0.47
1:2b:1538:U:HO2'	1:2b:1539:G:H21	1.53	0.47
7:Eb:163:ASP:OD2	7:Eb:165:ALA:HB3	2.15	0.47
8:Fb:136:ALA:O	8:Fb:140:THR:HG22	2.14	0.47
14:Lb:2:SER:C	14:Lb:3:THR:HG1	2.16	0.47
20:Sb:28:ILE:HG23	20:Sb:29:VAL:N	2.29	0.47
22:Ub:36:ASN:O	22:Ub:40:ASN:ND2	2.47	0.47
36:3b:5:U:OP1	51:Py:62:ARG:NE	2.47	0.47
37:Ay:32:LEU:HD13	37:Ay:163:ARG:HD3	1.96	0.47
38:By:29:VAL:HG12	38:By:31:ALA:O	2.14	0.47
38:By:308:MET:HE3	38:By:373:PRO:HD3	1.96	0.47
39:Cy:25:VAL:HG13	39:Cy:26:PHE:N	2.29	0.47
41:Ey:64:LEU:C	41:Ey:65:ILE:HG13	2.40	0.47
68:gy:52:GLN:NE2	78:1b:1638:A:O3'	2.47	0.47
78:1b:508:U:O4	78:1b:583:G:O6	2.31	0.47
78:1b:590:G:N2	78:1b:610:G:H2'	2.29	0.47
78:1b:3007:U:O4	78:1b:3008:A:N6	2.48	0.47
23:w:56:SER:HG	23:w:59:VAL:H	1.63	0.47
24:x:102:VAL:HG11	24:x:125:ILE:HD11	1.97	0.47
78:Aa:1064:A:N6	78:Aa:1092:C:C2	2.82	0.47
78:Aa:1129:A:H61	78:Aa:2864:A:H1'	1.79	0.47
78:Aa:1436:U:N3	39:Fa:71:VAL:O	2.47	0.47
78:Aa:2183:A:OP1	37:Da:10:LYS:NZ	2.34	0.47
78:Aa:2674:A:N6	46:Ma:21:ILE:HG23	2.28	0.47
78:Aa:2842:U:OP1	78:Aa:2898:G:N2	2.38	0.47
38:Ea:84:VAL:HG12	38:Ea:164:THR:HG22	1.96	0.47
46:Ma:50:ALA:HB3	46:Ma:63:GLU:H	1.80	0.47
46:Ma:125:MET:SD	46:Ma:125:MET:N	2.88	0.47
55:E:80:VAL:N	55:E:83:ARG:O	2.42	0.47
66:P:101:SER:HA	66:P:125:ARG:NH2	2.30	0.47
74:X:101:ALA:HB3	74:X:103:LEU:HD21	1.96	0.47
1:2b:252:U:H2'	1:2b:253:A:O4'	2.15	0.47
1:2b:280:U:C5	58:Wy:111:ALA:HB2	2.50	0.47
1:2b:1346:A:C8	1:2b:1370:U:C4	3.02	0.47
1:2b:1482:C:P	1:2b:1521:G:H22	2.38	0.47
1:2b:1588:G:O6	1:2b:1608:U:C4	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ab:88:LYS:NZ	2:Ab:201:LEU:HD11	2.29	0.47
12:Jb:67:PRO:HA	12:Jb:70:LEU:HD12	1.96	0.47
35:4b:77:G:OP2	54:Sy:50:LYS:NZ	2.41	0.47
37:Ay:249:SER:OG	37:Ay:250:GLN:N	2.48	0.47
38:By:290:ASP:O	38:By:293:ASN:ND2	2.48	0.47
40:Dy:85:ARG:NH2	40:Dy:250:ASP:OD2	2.47	0.47
59:Xy:110:VAL:HG12	59:Xy:111:ASN:N	2.29	0.47
62:ay:121:VAL:O	62:ay:141:ALA:HB1	2.14	0.47
65:dy:44:MET:HE3	65:dy:75:ILE:HG22	1.96	0.47
67:fy:29:LEU:HD22	67:fy:75:HIS:ND1	2.30	0.47
67:fy:54:ARG:HH12	67:fy:64:ILE:HD11	1.79	0.47
78:1b:676:G:O2'	78:1b:786:A:N6	2.42	0.47
78:1b:2156:C:C2'	78:1b:2157:G:H5'	2.44	0.47
1:a:1044:U:H2'	1:a:1045:C:C6	2.49	0.47
1:a:1082:C:N4	1:a:1091:A:C5	2.83	0.47
1:a:1169:G:N1	1:a:1575:G:OP2	2.38	0.47
2:b:183:ARG:NH2	2:b:191:ARG:O	2.46	0.47
3:c:66:VAL:HG13	17:p:33:LEU:HB3	1.97	0.47
6:e:132:LYS:HG2	6:e:189:MET:HE2	1.96	0.47
17:p:57:PRO:O	17:p:61:MET:N	2.43	0.47
26:z:45:ALA:CB	26:z:50:ALA:HB3	2.45	0.47
27:0:102:THR:HG22	27:0:103:ARG:H	1.80	0.47
78:Aa:75:G:H5'	47:Na:58:VAL:HG13	1.96	0.47
78:Aa:199:A:N6	78:Aa:1390:A:O2'	2.48	0.47
78:Aa:824:C:O2'	78:Aa:1534:A:N3	2.46	0.47
78:Aa:1223:A:OP2	78:Aa:1285:G:N1	2.44	0.47
35:Bb:85:G:N2	35:Bb:96:U:O2	2.46	0.47
39:Fa:23:PRO:HB2	39:Fa:25:VAL:HG12	1.96	0.47
45:La:201:SER:OG	45:La:209:ASN:ND2	2.42	0.47
49:Pa:6:TYR:CE1	70:T:40:VAL:HG22	2.50	0.47
52:B:174:ARG:O	52:B:179:ARG:NH2	2.40	0.47
53:C:99:LEU:HD21	53:C:103:ARG:CZ	2.44	0.47
65:O:70:ARG:C	65:O:71:LEU:HD23	2.38	0.47
1:2b:152:U:OP2	26:Yb:127:LYS:NZ	2.48	0.47
1:2b:1169:G:H3'	1:2b:1170:G:H5'	1.96	0.47
1:2b:1229:G:N2	1:2b:1256:A:H62	2.13	0.47
6:Db:42:THR:HB	6:Db:45:LYS:HG3	1.96	0.47
6:Db:224:ASP:OD1	6:Db:225:TYR:N	2.48	0.47
8:Fb:66:GLN:OE1	8:Fb:66:GLN:N	2.47	0.47
10:Hb:163:ASP:OD1	10:Hb:163:ASP:N	2.47	0.47
16:Nb:63:ALA:O	16:Nb:67:THR:N	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Ob:58:TYR:CE2	17:Ob:62:LEU:HD11	2.50	0.47
18:Qb:6:SER:H	18:Qb:96:TYR:HH	1.61	0.47
19:Rb:89:SER:O	19:Rb:91:LEU:N	2.46	0.47
33:gb:77:GLY:O	33:gb:94:VAL:HG21	2.14	0.47
37:Ay:57:PRO:HD2	37:Ay:170:ALA:HB3	1.97	0.47
37:Ay:134:VAL:HG12	37:Ay:135:ILE:N	2.29	0.47
38:By:35:ASP:OD1	38:By:36:ASP:N	2.47	0.47
47:Ly:147:ILE:HG22	47:Ly:148:ALA:N	2.29	0.47
48:My:68:LEU:O	48:My:69:THR:OG1	2.23	0.47
48:My:123:LEU:HD12	50:Oy:194[A]:LEU:HD21	1.97	0.47
49:Ny:189:LYS:O	49:Ny:192:LYS:N	2.48	0.47
51:Py:120:ASN:OD1	51:Py:120:ASN:N	2.48	0.47
52:Qy:89:ASP:O	78:1b:785:G:N2	2.44	0.47
53:Ry:160:GLU:O	53:Ry:164:LEU:HD23	2.15	0.47
54:Sy:17:GLU:OE1	54:Sy:17:GLU:N	2.48	0.47
60:Yy:39:LEU:HD11	60:Yy:107:THR:HA	1.95	0.47
71:jb:17:THR:HG23	71:jb:18:LEU:N	2.29	0.47
74:mb:117:HIS:O	78:1b:1207:G:O2'	2.30	0.47
78:1b:1234:G:N7	78:1b:1235:U:O2'	2.29	0.47
78:1b:2547:A:HO2'	78:1b:2548:C:P	2.35	0.47
78:1b:2945:G:O2'	78:1b:2948:C:OP2	2.28	0.47
1:a:74:U:C5	58:H:116:LYS:HD3	2.46	0.47
1:a:518:A:H1'	1:a:534:A:H61	1.79	0.47
1:a:886:U:O2	17:p:123:SER:OG	2.27	0.47
1:a:1013:A:H3'	1:a:1014:G:C8	2.50	0.47
2:b:38:PHE:N	2:b:47:VAL:O	2.39	0.47
2:b:102:PHE:O	2:b:103:THR:OG1	2.32	0.47
7:f:195:ILE:O	7:f:195:ILE:HG22	2.13	0.47
24:x:106:THR:HG22	24:x:123:GLY:N	2.30	0.47
25:y:90:ASP:OD1	31:5:12:GLY:N	2.41	0.47
78:Aa:213:A:N6	78:Aa:228:U:O4'	2.47	0.47
78:Aa:560:G:OP1	48:Oa:84:LYS:NZ	2.48	0.47
78:Aa:658:G:H21	39:Fa:93:MET:HB2	1.79	0.47
78:Aa:770:G:OP2	47:Na:171:ARG:NH1	2.48	0.47
78:Aa:992:A:H61	78:Aa:1057:A:H61	1.62	0.47
78:Aa:2219:A:OP2	70:T:68:ARG:NH1	2.44	0.47
78:Aa:2988:C:OP1	50:Qa:68:ARG:NH1	2.48	0.47
78:Aa:2995:A:H3'	78:Aa:2996:U:H5''	1.95	0.47
35:Bb:15:C:O2'	40:Ga:8:LYS:NZ	2.29	0.47
40:Ga:211:LEU:HD21	40:Ga:218:ARG:HB3	1.97	0.47
41:Ha:18:LEU:HD12	41:Ha:18:LEU:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:Ma:132:ASN:ND2	46:Ma:136:ALA:HB2	2.30	0.47
48:Oa:113:THR:HG22	48:Oa:114:ASP:N	2.30	0.47
50:Qa:43:ILE:HG22	50:Qa:44:SER:N	2.29	0.47
51:A:166:VAL:CG1	51:A:168:LEU:HD13	2.44	0.47
53:C:101:VAL:HG22	53:C:104:ARG:HH12	1.79	0.47
72:V:45:VAL:C	72:V:51:LEU:HD12	2.40	0.47
80:ba:20:GLU:HG2	80:ba:70:LEU:HD11	1.96	0.47
1:2b:1218:G:H5''	1:2b:1444:A:H61	1.80	0.47
1:2b:1290:U:O4	1:2b:1326:A:N6	2.48	0.47
1:2b:1380:U:H2'	1:2b:1381:U:O4'	2.14	0.47
1:2b:1555:A:O3'	4:Pb:44:ARG:NH1	2.48	0.47
1:2b:1764:C:OP2	1:2b:1767:G:O2'	2.12	0.47
6:Db:154:ASP:OD1	6:Db:155:GLY:N	2.48	0.47
7:Eb:65:LEU:HD23	7:Eb:70:VAL:HG11	1.96	0.47
8:Fb:28:PRO:C	8:Fb:29:ILE:HD13	2.39	0.47
8:Fb:43:PHE:HZ	8:Fb:90:ILE:HG21	1.77	0.47
19:Rb:4:VAL:HG12	19:Rb:5:ARG:N	2.29	0.47
22:Ub:114:VAL:HG12	22:Ub:115:GLU:N	2.28	0.47
26:Yb:6:THR:CG2	26:Yb:28:LEU:HD12	2.35	0.47
33:gb:42:LEU:HD11	33:gb:68:VAL:HG11	1.96	0.47
33:gb:289:ALA:HB1	33:gb:303:ALA:HB1	1.97	0.47
40:Dy:258:LYS:O	40:Dy:260:PHE:N	2.47	0.47
42:Fy:160:ARG:HE	42:Fy:203:TRP:CD1	2.32	0.47
42:Fy:240:VAL:O	42:Fy:243:MET:N	2.39	0.47
45:Iy:116:ARG:NH1	78:1b:2618:G:OP1	2.46	0.47
48:My:126:GLN:NE2	78:1b:3261:C:OP1	2.47	0.47
52:Qy:125:ASP:OD1	52:Qy:125:ASP:N	2.46	0.47
56:Uy:54:VAL:O	56:Uy:55:THR:OG1	2.30	0.47
72:kb:14:LEU:HD21	72:kb:52:TYR:CD2	2.50	0.47
78:1b:79:U:C2	78:1b:325:A:C6	3.02	0.47
78:1b:444:U:O4	78:1b:491:A:N6	2.48	0.47
78:1b:2434:U:O4	78:1b:2595:A:N1	2.47	0.47
78:1b:3027:A:O2'	78:1b:3028:G:O4'	2.21	0.47
1:a:195:G:H2'	1:a:196:G:H5'	1.97	0.47
1:a:1160:A:H1'	1:a:1620:C:H42	1.79	0.47
1:a:1483:A:H4'	18:r:71:GLY:HA2	1.97	0.47
7:f:71:LYS:O	7:f:91:THR:N	2.44	0.47
8:g:73:THR:OG1	8:g:91:GLU:OE1	2.22	0.47
8:g:213:LYS:O	8:g:217:LEU:HD23	2.15	0.47
10:i:86:GLN:OE1	10:i:86:GLN:N	2.46	0.47
12:k:109:LEU:HA	12:k:148:VAL:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:735:A:O2'	78:Aa:736:A:OP1	2.28	0.47
78:Aa:1245:A:N7	78:Aa:1271:A:O2'	2.47	0.47
78:Aa:2563:G:OP1	61:K:55:LYS:N	2.48	0.47
78:Aa:2715:A:O2'	78:Aa:2716:U:OP1	2.31	0.47
78:Aa:2960:C:N4	78:Aa:2961:G:O6	2.47	0.47
40:Ga:177:GLU:N	40:Ga:177:GLU:OE1	2.47	0.47
46:Ma:32:ARG:O	46:Ma:36:VAL:HG23	2.15	0.47
51:A:51:VAL:HG13	51:A:83:TRP:CD1	2.50	0.47
58:H:49:ILE:HG22	58:H:51:TRP:H	1.80	0.47
1:2b:280:U:H4'	1:2b:281:G:O5'	2.15	0.47
1:2b:486:G:H22	1:2b:501:U:HO2'	1.50	0.47
1:2b:765:G:H1'	1:2b:766:U:C5'	2.45	0.47
1:2b:1087:A:N3	1:2b:1142:A:O2'	2.42	0.47
1:2b:1447:C:O2	1:2b:1447:C:O2'	2.29	0.47
7:Eb:208:VAL:HG11	7:Eb:225:VAL:HG21	1.97	0.47
8:Fb:31:GLU:O	8:Fb:34:GLN:N	2.48	0.47
16:Nb:30:SER:OG	16:Nb:67:THR:HG22	2.15	0.47
17:Ob:15:GLY:C	17:Ob:79:VAL:HG23	2.39	0.47
21:Tb:34:VAL:HG22	21:Tb:35:ASP:N	2.30	0.47
27:Zb:39:ALA:N	27:Zb:70:LYS:O	2.47	0.47
36:3b:15:G:H2'	36:3b:16:G:O4'	2.15	0.47
36:3b:26:U:H2'	36:3b:27:U:O4'	2.14	0.47
37:Ay:94:ALA:HB3	37:Ay:102:LEU:CD1	2.45	0.47
39:Cy:38:VAL:O	39:Cy:41:SER:N	2.44	0.47
41:Ey:73:GLY:O	78:1b:3267:A:O2'	2.29	0.47
47:Ly:59:ARG:NH1	78:1b:73:C:N3	2.62	0.47
47:Ly:69:VAL:HG12	47:Ly:149:GLN:OE1	2.14	0.47
64:cy:25:LEU:HD23	64:cy:90:VAL:HG23	1.96	0.47
78:1b:677:A:N7	78:1b:785:G:O2'	2.44	0.47
79:6b:9:A:C5'	79:6b:46:G:H21	2.28	0.47
1:a:26:A:O2'	1:a:27:U:O5'	2.26	0.47
1:a:252:U:C1'	7:f:131:LEU:HD23	2.45	0.47
1:a:1042:G:H22	1:a:1076:A:H2	1.62	0.47
12:k:39:LYS:HA	12:k:42:ILE:HD12	1.95	0.47
4:q:49:MET:O	4:q:50:THR:OG1	2.16	0.47
22:v:24:ILE:HG13	22:v:116:VAL:HG13	1.97	0.47
22:v:35:GLU:O	22:v:38:SER:OG	2.28	0.47
78:Aa:1878:G:HO2'	78:Aa:1879:A:P	2.38	0.47
78:Aa:2506:U:HO2'	78:Aa:2507:C:H5	1.62	0.47
78:Aa:2677:G:O2'	78:Aa:2679:A:N7	2.40	0.47
78:Aa:3039:C:H2'	78:Aa:3040:A:O4'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:3164:C:HO2'	78:Aa:3165:A:P	2.38	0.47
38:Ea:383:LEU:N	38:Ea:386:ASP:OD2	2.47	0.47
40:Ga:223:PHE:O	40:Ga:226:TYR:N	2.48	0.47
62:L:65:GLN:O	62:L:66:ALA:HB3	2.15	0.47
64:N:99:ASP:C	64:N:103:THR:HG23	2.40	0.47
65:O:6:ASP:OD1	65:O:7:VAL:N	2.47	0.47
76:Z:75:VAL:HG23	76:Z:76:LYS:CD	2.44	0.47
77:aa:73:THR:HG22	77:aa:74:ALA:N	2.29	0.47
1:2b:34:G:N1	1:2b:475:A:N7	2.62	0.47
1:2b:38:C:H2'	1:2b:39:A:O4'	2.14	0.47
1:2b:605:A:OP2	1:2b:606:A:O2'	2.23	0.47
1:2b:1445:G:N2	32:fb:87:THR:HG21	2.30	0.47
1:2b:1453:G:H21	4:Pb:99:GLY:C	2.20	0.47
1:2b:1694:A:N6	1:2b:1707:A:H62	2.13	0.47
8:Fb:73:THR:HG22	8:Fb:75:GLY:N	2.30	0.47
10:Hb:14:THR:C	10:Hb:18:LEU:HD12	2.39	0.47
17:Ob:99:GLN:OE1	17:Ob:99:GLN:N	2.43	0.47
33:gb:314:GLN:NE2	33:gb:316:MET:SD	2.88	0.47
36:3b:55:U:O4	36:3b:62:C:C4	2.67	0.47
37:Ay:21:ARG:HE	37:Ay:22:LEU:HD21	1.80	0.47
37:Ay:57:PRO:HG2	37:Ay:78:ALA:HB3	1.97	0.47
38:By:48:GLY:O	38:By:336:VAL:N	2.40	0.47
38:By:260:VAL:HG21	78:1b:2987:A:H2	1.80	0.47
40:Dy:261:THR:HG23	40:Dy:264:GLN:OE1	2.15	0.47
47:Ly:161:ASP:OD2	62:ay:144:VAL:HG23	2.15	0.47
78:1b:488:U:O2'	78:1b:489:U:O5'	2.33	0.47
78:1b:2392:C:H2'	78:1b:2393:G:O4'	2.15	0.47
1:a:1206:U:OP2	1:a:1207:C:O2'	2.28	0.47
6:e:52:ALA:N	6:e:90:ARG:O	2.47	0.47
6:e:89:GLU:OE1	6:e:89:GLU:N	2.48	0.47
20:t:8:GLN:NE2	27:0:43:ASP:O	2.39	0.47
33:7:124:SER:OG	33:7:134:TRP:NE1	2.43	0.47
78:Aa:687:U:OP2	47:Na:36:ARG:NH1	2.47	0.47
78:Aa:2640:A:OP1	55:E:55:LYS:NZ	2.40	0.47
78:Aa:3146:G:O2'	38:Ea:100:ARG:NH1	2.40	0.47
78:Aa:3160:U:O2	78:Aa:3291:G:C2	2.67	0.47
78:Aa:3209:A:N7	48:Oa:106:ARG:NH1	2.63	0.47
78:Aa:3310:A:P	51:A:71:ALA:HB2	2.54	0.47
43:Ja:71:VAL:O	43:Ja:234:GLY:N	2.42	0.47
61:K:25:ILE:HG22	61:K:26:VAL:N	2.29	0.47
1:2b:567:A:N6	1:2b:580:A:H61	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:615:A:O2'	1:2b:621:A:N1	2.38	0.46
1:2b:963:A:O2'	1:2b:964:U:O5'	2.24	0.46
3:Ba:31:ASP:O	3:Ba:96:LEU:HD23	2.15	0.46
18:Qb:103:ASN:OD1	18:Qb:104:GLU:N	2.47	0.46
21:Tb:107:ALA:O	21:Tb:111:ILE:HG22	2.16	0.46
21:Tb:117:SER:OG	21:Tb:118:PRO:O	2.21	0.46
30:db:21:CYS:CB	30:db:24:CYS:SG	3.03	0.46
34:cb:44:VAL:HG12	34:cb:45:LYS:N	2.31	0.46
37:Ay:194:ASN:O	37:Ay:194:ASN:ND2	2.48	0.46
44:Hy:28:VAL:HG22	44:Hy:33:THR:HG22	1.96	0.46
50:Oy:150[A]:GLU:OE1	50:Oy:150[A]:GLU:N	2.48	0.46
53:Ry:130:ASN:O	53:Ry:131:ALA:HB3	2.15	0.46
54:Sy:115:ARG:HH22	78:1b:1320:C:H1'	1.80	0.46
68:gy:95:ILE:HG22	78:1b:2553:U:C5	2.50	0.46
78:1b:1260:A:O4'	78:1b:1280:C:O2'	2.33	0.46
1:a:280:U:HO2'	1:a:281:G:P	2.32	0.46
1:a:717:C:O2'	1:a:718:U:OP1	2.18	0.46
2:b:20:ALA:O	2:b:167:LYS:NZ	2.47	0.46
5:d:187:LEU:HD23	5:d:187:LEU:O	2.15	0.46
9:h:117:GLY:CA	58:H:75:THR:H	2.28	0.46
18:r:52:LEU:N	18:r:52:LEU:HD12	2.30	0.46
24:x:35:ILE:HA	24:x:38:LEU:HD12	1.95	0.46
78:Aa:668:G:O6	78:Aa:794:U:O4	2.33	0.46
78:Aa:1027:A:N6	78:Aa:1029:G:N2	2.63	0.46
78:Aa:1223:A:C2	78:Aa:1287:A:N3	2.84	0.46
78:Aa:2207:A:H4'	78:Aa:2208:A:O5'	2.15	0.46
78:Aa:2427:U:N3	78:Aa:2603:G:C6	2.83	0.46
78:Aa:2561:A:N7	78:Aa:2579:G:C2	2.83	0.46
38:Ea:17:LEU:HD21	38:Ea:233:TRP:HH2	1.80	0.46
39:Fa:51:ALA:HB1	39:Fa:103:THR:O	2.15	0.46
44:Ka:4:ILE:O	44:Ka:59:ASN:N	2.38	0.46
61:K:26:VAL:HB	61:K:96:VAL:HG11	1.96	0.46
1:2b:467:G:O2'	1:2b:469:C:OP2	2.21	0.46
1:2b:706:A:H61	1:2b:731:C:H5'	1.80	0.46
1:2b:821:U:O4	1:2b:852:C:C4	2.68	0.46
1:2b:900:A:H2'	1:2b:901:G:O4'	2.16	0.46
1:2b:1752:U:O4	1:2b:1753:A:N6	2.49	0.46
7:Eb:19:LEU:HD11	7:Eb:108:ARG:HD2	1.97	0.46
17:Ob:17:ALA:C	17:Ob:29:HIS:O	2.58	0.46
27:Zb:46:LYS:CD	27:Zb:69:LEU:HD12	2.45	0.46
36:3b:38:U:O2	69:hb:81:ARG:NE	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:3b:60:U:O2	36:3b:60:U:O2'	2.31	0.46
45:Iy:165:ILE:HG22	45:Iy:166:ILE:N	2.31	0.46
45:Iy:190:VAL:HG13	45:Iy:197:VAL:HG21	1.97	0.46
46:Jy:112:LEU:HD23	46:Jy:112:LEU:N	2.30	0.46
52:Qy:34:THR:HA	52:Qy:49:LEU:HD22	1.96	0.46
62:ay:105:LEU:HD21	62:ay:128:ARG:NH2	2.29	0.46
77:pb:33:GLN:OE1	77:pb:49:ARG:NH1	2.49	0.46
78:1b:641:C:H2'	78:1b:642:U:O4'	2.15	0.46
78:1b:989:A:H2'	78:1b:990:U:O4'	2.15	0.46
78:1b:1046:A:O2'	78:1b:1047:A:O5'	2.33	0.46
1:a:1558:U:O4	4:q:122:THR:HG22	2.15	0.46
2:b:162:CYS:SG	2:b:163:ASN:N	2.85	0.46
9:h:49:VAL:N	58:H:74:LYS:O	2.47	0.46
78:Aa:1792:C:H4'	78:Aa:1793:C:OP1	2.14	0.46
78:Aa:3158:G:O2'	78:Aa:3159:C:OP1	2.26	0.46
42:Ia:121:LYS:CB	55:E:133:ALA:HB3	2.43	0.46
69:S:37:SER:OG	69:S:38:ARG:N	2.47	0.46
69:S:76:GLN:O	69:S:81:ARG:NH2	2.48	0.46
1:2b:2:A:O2'	5:Cb:198:THR:O	2.33	0.46
1:2b:78:A:O2'	1:2b:79:C:O5'	2.26	0.46
1:2b:813:U:HO2'	1:2b:814:A:P	2.38	0.46
5:Cb:240:LEU:HD12	5:Cb:240:LEU:N	2.31	0.46
9:Gb:97:VAL:HG22	9:Gb:98:ARG:N	2.30	0.46
14:Lb:70:ILE:HD13	14:Lb:126:GLY:HA2	1.96	0.46
19:Rb:73:LEU:HD23	19:Rb:73:LEU:C	2.40	0.46
20:Sb:101:LEU:O	20:Sb:103:ASN:N	2.48	0.46
28:ab:74:CYS:SG	28:ab:76:SER:N	2.88	0.46
37:Ay:133:TYR:HB3	37:Ay:168:VAL:HG22	1.98	0.46
43:Gy:186:LEU:O	43:Gy:190:VAL:HG12	2.15	0.46
44:Hy:21:LYS:NZ	78:1b:3199:G:OP1	2.46	0.46
51:Py:56:ARG:NH1	51:Py:75:GLU:OE2	2.45	0.46
54:Sy:18:SER:OG	54:Sy:19:VAL:HG12	2.16	0.46
59:Xy:117:ASN:OD1	59:Xy:119:THR:N	2.43	0.46
68:gy:99:LYS:NZ	78:1b:2555:G:O6	2.33	0.46
71:jb:29:VAL:HG23	71:jb:30:GLN:N	2.29	0.46
73:lb:21:ARG:NH1	73:lb:22:PRO:O	2.48	0.46
78:1b:220:G:C6	78:1b:1389:G:N1	2.83	0.46
78:1b:2157:G:N1	78:1b:2178:A:OP2	2.39	0.46
1:a:25:C:O2'	1:a:366:A:O3'	2.33	0.46
1:a:336:G:N2	11:j:5:ARG:O	2.40	0.46
1:a:717:C:H42	1:a:720:G:N2	2.05	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1199:G:O2'	1:a:1200:G:OP2	2.33	0.46
1:a:1480:G:H3'	1:a:1481:C:C6	2.51	0.46
2:b:55:GLU:OE2	23:w:80:LYS:N	2.45	0.46
5:d:51:THR:C	5:d:72:LEU:HD11	2.40	0.46
9:h:121:LEU:O	58:H:77:LYS:HB2	2.15	0.46
12:k:136:VAL:N	12:k:139:GLN:O	2.39	0.46
14:m:76:VAL:HG11	14:m:87:ARG:HB2	1.96	0.46
34:3:58:GLU:OE1	34:3:58:GLU:N	2.48	0.46
78:Aa:118:U:N3	78:Aa:122:A:OP2	2.44	0.46
78:Aa:1114:U:H5''	62:L:22:ILE:HD12	1.97	0.46
78:Aa:1177:G:OP1	78:Aa:1177:G:N2	2.34	0.46
38:Ea:57:VAL:HG23	38:Ea:358:TRP:HE3	1.80	0.46
59:I:86:VAL:HG12	59:I:87:SER:N	2.30	0.46
62:L:94:ALA:HA	62:L:121:VAL:HG13	1.98	0.46
64:N:41:LEU:HD23	64:N:42:ILE:C	2.40	0.46
67:Q:4:SER:OG	67:Q:4:SER:O	2.33	0.46
1:2b:241:U:HO2'	1:2b:242:U:H6	1.62	0.46
1:2b:1171:A:O2'	1:2b:1570:A:O2'	2.30	0.46
1:2b:1742:U:HO2'	1:2b:1743:U:P	2.38	0.46
3:Ba:84:ILE:HD13	3:Ba:103:MET:HG2	1.96	0.46
6:Db:209:ILE:HD12	19:Rb:38:ILE:O	2.14	0.46
16:Nb:44:GLY:O	16:Nb:45:LEU:HD23	2.16	0.46
17:Ob:16:VAL:O	17:Ob:30:VAL:HA	2.15	0.46
21:Tb:56:LYS:O	21:Tb:59:ALA:N	2.48	0.46
29:bb:56:CYS:HG	29:bb:58:SER:HG	1.60	0.46
34:cb:25:VAL:HG12	34:cb:26:THR:N	2.29	0.46
38:By:3:HIS:HB3	78:1b:2939:G:OP2	2.16	0.46
39:Cy:316:ASN:ND2	39:Cy:317:PRO:O	2.48	0.46
40:Dy:94:ASN:OD1	40:Dy:96:ALA:N	2.44	0.46
43:Gy:157:VAL:O	43:Gy:160:ILE:HD12	2.15	0.46
51:Py:74:LYS:NZ	78:1b:3297:U:O3'	2.48	0.46
53:Ry:82:LYS:N	78:1b:1864:A:OP1	2.42	0.46
55:Ty:80:VAL:HG21	55:Ty:85:LEU:CD1	2.44	0.46
59:Xy:86:VAL:HG12	59:Xy:87:SER:N	2.30	0.46
66:ey:40:SER:OG	66:ey:41:VAL:N	2.47	0.46
76:ob:21:THR:HG21	76:ob:74:CYS:SG	2.55	0.46
78:1b:393:U:H2'	78:1b:394:G:O4'	2.14	0.46
78:1b:760:G:HO2'	78:1b:761:A:P	2.38	0.46
1:a:82:U:H2'	1:a:83:G:O4'	2.16	0.46
1:a:111:U:O4	1:a:112:A:N6	2.48	0.46
1:a:748:U:C2	1:a:802:G:N1	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:135:LEU:HD23	3:c:217:LEU:HA	1.97	0.46
16:o:46:THR:OG1	16:o:49:GLN:OE1	2.27	0.46
16:o:141:TYR:CE1	16:o:146:ALA:HB2	2.51	0.46
17:p:28:VAL:HG11	17:p:67:VAL:HG21	1.95	0.46
19:s:46:LEU:HD11	19:s:50:ILE:HD11	1.96	0.46
22:v:62:VAL:C	22:v:63:LEU:HD12	2.41	0.46
26:z:50:ALA:CB	26:z:55:VAL:HG13	2.45	0.46
28:1:31:PRO:O	28:1:35:ALA:HB2	2.15	0.46
33:7:262:VAL:O	33:7:270:LEU:HD12	2.15	0.46
78:Aa:590:G:O2'	39:Fa:309:ARG:NH1	2.45	0.46
78:Aa:1078:U:O5'	40:Ga:140:ARG:NH2	2.49	0.46
78:Aa:1202:A:O2'	78:Aa:1203:A:O5'	2.33	0.46
42:Ia:26:VAL:HG23	42:Ia:27:ALA:N	2.30	0.46
49:Pa:126:THR:HG22	49:Pa:126:THR:O	2.15	0.46
1:2b:567:A:H62	1:2b:576:G:H21	1.62	0.46
1:2b:640:U:O2'	1:2b:641:G:OP1	2.30	0.46
1:2b:709:C:H3'	1:2b:710:U:C5'	2.45	0.46
1:2b:1556:A:HO2'	1:2b:1557:U:P	2.38	0.46
6:Db:50:ILE:HG22	6:Db:51:ARG:N	2.31	0.46
6:Db:76:ARG:NH1	6:Db:76:ARG:O	2.48	0.46
9:Gb:145:PHE:CZ	9:Gb:158:ILE:HD11	2.50	0.46
9:Gb:145:PHE:HZ	9:Gb:158:ILE:HD11	1.81	0.46
11:Ib:107:THR:HG22	11:Ib:110:ARG:NH1	2.30	0.46
25:Xb:74:VAL:HG12	25:Xb:75:GLN:N	2.30	0.46
29:bb:35:VAL:HG22	29:bb:79:PHE:HB2	1.96	0.46
32:fb:102:VAL:HG13	32:fb:105:TYR:OH	2.15	0.46
36:3b:84:C:N3	60:Yy:116:LYS:NZ	2.58	0.46
37:Ay:54:ARG:NH1	78:1b:2177:G:OP2	2.48	0.46
40:Dy:39:GLN:O	40:Dy:41:LYS:NZ	2.46	0.46
41:Ey:64:LEU:HD12	41:Ey:65:ILE:H	1.81	0.46
43:Gy:180:VAL:HG22	43:Gy:181:LYS:H	1.81	0.46
46:Jy:54:VAL:HG13	46:Jy:55:ARG:N	2.29	0.46
51:Py:86:LYS:NZ	78:1b:2354:C:OP1	2.36	0.46
54:Sy:43:TYR:OH	54:Sy:122:HIS:NE2	2.41	0.46
61:Zy:68:ILE:HG22	61:Zy:69:LYS:N	2.29	0.46
77:pb:39:CYS:CB	77:pb:42:CYS:HG	2.29	0.46
1:a:160:C:O5'	9:h:87:ARG:NH2	2.48	0.46
1:a:894:U:O2'	17:p:36:LYS:NZ	2.44	0.46
1:a:1102:G:OP1	24:x:76:SER:OG	2.29	0.46
1:a:1229:G:O2'	1:a:1230:A:OP2	2.31	0.46
7:f:181:VAL:N	7:f:193:GLY:O	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:h:22:HIS:O	9:h:26:VAL:HG23	2.16	0.46
9:h:126:ASP:CB	58:H:78:ALA:HA	2.46	0.46
14:m:138:ASN:OD1	14:m:139:VAL:N	2.48	0.46
20:t:87:ASN:OD1	20:t:88:ARG:N	2.48	0.46
20:t:106:GLU:OE2	20:t:110:ARG:NH1	2.49	0.46
24:x:103:ILE:HG22	24:x:112:ASP:HA	1.98	0.46
26:z:50:ALA:HB2	26:z:55:VAL:HG13	1.97	0.46
27:0:42:LEU:HD22	27:0:47:TYR:HB2	1.98	0.46
33:7:126:SER:O	33:7:129:LYS:N	2.46	0.46
78:Aa:713:U:O2'	78:Aa:754:G:OP1	2.33	0.46
78:Aa:1231:A:H2'	78:Aa:1277:C:H41	1.81	0.46
38:Ea:53:MET:SD	38:Ea:77:THR:HG22	2.55	0.46
1:2b:66:U:O2	9:Gb:160:ARG:NE	2.36	0.46
1:2b:1498:G:OP1	21:Tb:75:LYS:NZ	2.46	0.46
1:2b:1582:U:O2'	1:2b:1583:A:OP2	2.30	0.46
6:Db:9:ARG:HA	6:Db:12:VAL:HG22	1.98	0.46
7:Eb:184:THR:HA	7:Eb:189:LEU:HD13	1.96	0.46
10:Hb:173:TYR:CE1	10:Hb:177:THR:HG21	2.50	0.46
14:Lb:102:LYS:O	25:Xb:13:ARG:NH2	2.48	0.46
32:fb:98:VAL:O	32:fb:100:LEU:N	2.48	0.46
35:4b:41:G:H21	35:4b:44:C:H42	1.64	0.46
40:Dy:63:GLN:CB	40:Dy:65:ILE:HD11	2.45	0.46
40:Dy:256:THR:OG1	40:Dy:258:LYS:NZ	2.44	0.46
41:Ey:112:THR:HG23	41:Ey:115:GLU:H	1.80	0.46
47:Ly:75:PHE:O	47:Ly:79:GLU:HB2	2.16	0.46
50:Oy:61[A]:ALA:HB1	50:Oy:66[A]:LYS:HG3	1.98	0.46
52:Qy:157:PRO:HA	52:Qy:186:VAL:CG1	2.46	0.46
54:Sy:48:LEU:N	54:Sy:48:LEU:HD23	2.31	0.46
55:Ty:29:THR:OG1	55:Ty:30:TYR:N	2.47	0.46
56:Uy:86:LYS:NZ	78:1b:1684:U:OP1	2.36	0.46
67:fy:96:ALA:HB2	78:1b:3173:G:N2	2.31	0.46
78:1b:1906:G:HO2'	78:1b:1907:C:P	2.37	0.46
78:1b:2232:A:H2'	78:1b:2233:A:O4'	2.15	0.46
78:1b:2717:U:O4	78:1b:2740:A:N6	2.49	0.46
78:1b:2994:A:OP2	78:1b:3142:A:N6	2.41	0.46
78:1b:3066:U:C2	78:1b:3067:C:C5	3.04	0.46
1:a:707:A:N1	1:a:730:G:N2	2.62	0.46
1:a:1454:G:O2'	4:q:122:THR:OG1	2.03	0.46
6:e:225:TYR:N	33:7:189:GLU:O	2.46	0.46
7:f:196:VAL:HG11	7:f:211:LYS:CB	2.46	0.46
15:n:49:THR:O	15:n:53:THR:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:r:44:LEU:HD22	18:r:47:LYS:HG3	1.96	0.46
18:r:98:ASP:O	18:r:101:SER:OG	2.26	0.46
25:y:76:LEU:O	25:y:80:GLY:CA	2.63	0.46
34:3:60:GLU:OE1	34:3:60:GLU:N	2.49	0.46
33:7:264:SER:N	33:7:271:VAL:HG23	2.30	0.46
78:Aa:408:A:H2'	78:Aa:409:A:O4'	2.15	0.46
78:Aa:883:A:N6	78:Aa:921:A:N7	2.64	0.46
78:Aa:920:A:O2'	78:Aa:921:A:OP2	2.32	0.46
78:Aa:980:A:H2'	78:Aa:981:U:C1'	2.46	0.46
78:Aa:2435:G:N1	78:Aa:2513:U:O4	2.48	0.46
36:Ca:11:C:H2'	36:Ca:12:A:O4'	2.15	0.46
39:Fa:129:THR:HB	39:Fa:248:VAL:HG21	1.98	0.46
39:Fa:267:VAL:HG22	39:Fa:268:ALA:O	2.16	0.46
40:Ga:60:ILE:HD11	40:Ga:93:THR:HA	1.98	0.46
40:Ga:64:ILE:O	40:Ga:65:ILE:HD13	2.15	0.46
54:D:12:ARG:NH2	54:D:57:GLU:OE1	2.46	0.46
64:N:45:ALA:HB3	64:N:48:THR:HG23	1.98	0.46
69:S:100:VAL:HG22	69:S:101:THR:H	1.80	0.46
1:2b:187:G:C2'	1:2b:198:A:H61	2.28	0.46
1:2b:461:G:C4	1:2b:462:G:C8	3.04	0.46
1:2b:1227:A:O2'	15:Mb:44:GLY:N	2.48	0.46
5:Cb:53:ILE:HD11	5:Cb:110:HIS:CE1	2.50	0.46
10:Hb:22:GLN:HA	10:Hb:25:VAL:HG12	1.98	0.46
15:Mb:84:ASN:O	15:Mb:86:VAL:N	2.49	0.46
39:Cy:282:SER:OG	52:Qy:125:ASP:OD2	2.08	0.46
40:Dy:163:LEU:HD23	40:Dy:163:LEU:C	2.40	0.46
43:Gy:94:PHE:O	43:Gy:97:TYR:N	2.49	0.46
43:Gy:187:GLY:O	43:Gy:192:GLN:N	2.46	0.46
48:My:91:CYS:N	48:My:92:GLU:OE1	2.48	0.46
50:Oy:160[A]:ARG:NH1	78:1b:3182:G:OP1	2.41	0.46
51:Py:182:ILE:HD11	78:1b:3217:C:C5	2.50	0.46
52:Qy:92:ARG:NH1	78:1b:784:A:O3'	2.48	0.46
52:Qy:120:GLU:HG3	52:Qy:122:ILE:HD11	1.97	0.46
54:Sy:117:ARG:O	54:Sy:120:SER:N	2.49	0.46
61:Zy:55:LYS:NZ	78:1b:2564:G:OP2	2.49	0.46
63:by:47:LEU:O	63:by:50:THR:N	2.48	0.46
78:1b:10:C:H2'	78:1b:11:A:H5''	1.98	0.46
79:6b:9:A:H5''	79:6b:46:G:H21	1.79	0.46
1:a:859:A:H61	16:o:76:LYS:NZ	2.14	0.46
1:a:1524:A:O3'	21:u:93:HIS:ND1	2.48	0.46
1:a:1555:A:N3	30:4:11:PRO:CB	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1673:G:H22	1:a:1728:A:H2	1.64	0.46
11:j:120:THR:C	11:j:121:LEU:HD22	2.40	0.46
18:r:109:PHE:O	18:r:116:LEU:HD12	2.16	0.46
19:s:35:CYS:HA	19:s:38:ILE:HG22	1.97	0.46
22:v:103:ILE:HA	22:v:106:ILE:HG22	1.98	0.46
27:0:75:LEU:HD12	27:0:75:LEU:N	2.31	0.46
30:4:40:ARG:O	30:4:44:ARG:HD3	2.16	0.46
78:Aa:675:C:O2'	78:Aa:679:U:OP1	2.28	0.46
78:Aa:1027:A:C5	78:Aa:1029:G:C2	3.04	0.46
78:Aa:1755:C:H2'	78:Aa:1756:C:O4'	2.16	0.46
78:Aa:2304:C:P	78:Aa:2305:G:H22	2.38	0.46
78:Aa:2389:C:OP1	51:A:66:SER:N	2.45	0.46
78:Aa:2821:C:N4	78:Aa:2873:U:C4	2.84	0.46
78:Aa:2861:U:H2'	78:Aa:2862:U:O4'	2.16	0.46
78:Aa:2969:A:N7	37:Da:215:ASN:ND2	2.63	0.46
35:Bb:16:U:C2	35:Bb:65:G:C2	3.04	0.46
59:I:24:LEU:HD12	59:I:25:LYS:H	1.80	0.46
1:2b:555:A:C2	1:2b:556:A:C6	3.04	0.46
1:2b:1480:G:H2'	1:2b:1481:C:O4'	2.16	0.46
3:Ba:137:ILE:HG13	3:Ba:215:VAL:HG23	1.98	0.46
3:Ba:187:LYS:O	3:Ba:192:VAL:HG22	2.15	0.46
18:Qb:39:VAL:HG12	18:Qb:41:PRO:HD3	1.98	0.46
18:Qb:85:ILE:O	18:Qb:89:LEU:N	2.39	0.46
20:Sb:89:GLN:HA	20:Sb:97:ASP:HA	1.97	0.46
37:Ay:54:ARG:NH2	78:1b:2176:U:OP1	2.46	0.46
37:Ay:111:THR:HB	37:Ay:136:ILE:HD13	1.98	0.46
38:By:347:SER:HG	38:By:350:ALA:H	1.63	0.46
44:Hy:36:LYS:CE	44:Hy:78:MET:HE2	2.46	0.46
48:My:130:THR:OG1	48:My:131:VAL:N	2.48	0.46
55:Ty:35:LYS:NZ	78:1b:1084:A:O3'	2.45	0.46
57:Vy:53:SER:OG	57:Vy:56:ASP:OD2	2.09	0.46
78:1b:921:A:N6	78:1b:1846:C:OP2	2.49	0.46
1:a:737:A:O2'	1:a:738:G:OP2	2.33	0.46
1:a:1277:G:H22	1:a:1434:U:H3	1.63	0.46
1:a:1346:A:OP2	1:a:1348:A:N6	2.47	0.46
1:a:1573:A:OP2	8:g:185:ARG:NH2	2.49	0.46
1:a:1780:G:H2'	1:a:1781:A:O4'	2.15	0.46
2:b:119:ARG:HH21	5:d:240:LEU:HD13	1.80	0.46
28:1:46:GLU:O	28:1:48:ALA:N	2.49	0.46
78:Aa:3385:U:H2'	78:Aa:3386:G:O4'	2.16	0.46
37:Da:74:GLU:N	37:Da:74:GLU:OE2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Fa:35:VAL:HG21	39:Fa:244:LEU:HD21	1.98	0.46
43:Ja:170:CYS:O	43:Ja:175:VAL:N	2.43	0.46
53:C:102:LEU:HD22	53:C:138:LEU:HD13	1.98	0.46
55:E:56:PHE:O	55:E:60:LYS:NZ	2.46	0.46
59:I:106:ASP:OD1	59:I:107:VAL:N	2.49	0.46
66:P:78:ASN:OD1	66:P:79:VAL:HG23	2.16	0.46
69:S:31:LEU:HD21	69:S:43:LYS:HG2	1.97	0.46
70:T:81:THR:OG1	70:T:82:ARG:N	2.47	0.46
1:2b:628:G:O2'	78:1b:846:A:C1'	2.64	0.46
3:Ba:143:THR:HG22	3:Ba:205:PHE:CE1	2.50	0.46
16:Nb:94:LYS:O	16:Nb:97:SER:N	2.48	0.46
16:Nb:103:GLU:OE1	16:Nb:103:GLU:N	2.48	0.46
21:Tb:76:LEU:O	21:Tb:79:LEU:N	2.48	0.46
22:Ub:65:ILE:HG21	30:db:43:PHE:CE2	2.51	0.46
33:gb:203:THR:OG1	33:gb:204:ALA:N	2.49	0.46
33:gb:266:ASP:OD1	33:gb:266:ASP:N	2.36	0.46
42:Fy:53:LYS:O	42:Fy:57:THR:HG23	2.16	0.46
43:Gy:112:GLU:OE1	43:Gy:125:ALA:HB3	2.16	0.46
47:Ly:62:THR:O	47:Ly:64:LYS:N	2.49	0.46
47:Ly:69:VAL:HG13	47:Ly:70:ARG:N	2.31	0.46
49:Ny:47:LYS:NZ	78:1b:268:A:OP1	2.41	0.46
49:Ny:73:ARG:O	49:Ny:75:VAL:N	2.49	0.46
57:Vy:41:GLY:N	78:1b:2932:U:OP1	2.43	0.46
62:ay:91:LEU:O	62:ay:94:ALA:HB2	2.15	0.46
78:1b:451:U:C2	78:1b:486:A:C6	3.04	0.46
78:1b:619:A:H4'	78:1b:620:U:O5'	2.16	0.46
79:6b:9:A:O2'	79:6b:10:G:N7	2.49	0.46
1:a:118:U:N3	1:a:299:A:C6	2.84	0.46
1:a:1665:U:C4	1:a:1736:G:O6	2.69	0.46
2:b:86:VAL:HG12	2:b:174:TRP:CH2	2.51	0.46
2:b:112:THR:HG23	2:b:115:PHE:N	2.30	0.46
5:d:142:GLY:N	5:d:153:SER:O	2.45	0.46
7:f:11:ARG:NH1	7:f:24:SER:HG	2.14	0.46
11:j:79:ALA:HB3	11:j:103:GLN:HB3	1.97	0.46
26:z:29:HIS:O	26:z:67:GLY:HA3	2.09	0.46
78:Aa:78:U:N3	78:Aa:324:A:C6	2.84	0.46
78:Aa:1794:G:OP1	37:Da:50:HIS:NE2	2.40	0.46
78:Aa:2568:C:N4	78:Aa:2574:G:O6	2.49	0.46
78:Aa:3027:A:H2'	78:Aa:3028:G:O4'	2.16	0.46
37:Da:112:ILE:HD11	77:aa:79:VAL:HG13	1.97	0.46
37:Da:117:GLU:OE2	37:Da:122:ASP:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Ea:337:THR:C	38:Ea:338:LEU:HD12	2.41	0.46
52:B:135:GLN:OE1	52:B:135:GLN:N	2.47	0.46
55:E:14:MET:HE1	55:E:55:LYS:CB	2.43	0.46
61:K:84:ARG:NH1	61:K:85:TYR:OH	2.49	0.46
1:2b:44:U:O2	1:2b:44:U:O2'	2.27	0.46
1:2b:972:G:C2	78:1b:847:A:N1	2.84	0.46
1:2b:1447:C:H1'	32:fb:80:ARG:HE	1.80	0.46
35:4b:36:C:H2'	35:4b:37:G:C8	2.51	0.46
37:Ay:130:SER:O	37:Ay:132:ASN:N	2.49	0.46
40:Dy:290:ILE:HG23	40:Dy:294:ALA:HB3	1.98	0.46
47:Ly:161:ASP:CG	62:ay:144:VAL:HG23	2.40	0.46
50:Oy:8[A]:VAL:O	50:Oy:118[A]:VAL:HG22	2.16	0.46
61:Zy:41:ALA:O	61:Zy:42:LEU:HD12	2.14	0.46
78:1b:3089:C:H2'	78:1b:3090:U:O4'	2.15	0.46
78:1b:3305:A:H2'	78:1b:3306:U:O4'	2.16	0.46
1:a:823:G:O6	1:a:850:A:C5	2.69	0.46
1:a:1683:C:N3	1:a:1719:A:C6	2.84	0.46
2:b:130:ALA:HA	2:b:133:ILE:HD12	1.98	0.46
12:k:39:LYS:HD3	12:k:42:ILE:HD12	1.98	0.46
78:Aa:870:G:HO2'	78:Aa:871:U:P	2.34	0.46
78:Aa:938:C:H4'	78:Aa:962:A:C2	2.51	0.46
78:Aa:1866:C:O2	78:Aa:1866:C:O2'	2.31	0.46
78:Aa:3192:U:O2	78:Aa:3200:G:N2	2.42	0.46
39:Fa:219:LEU:HD21	39:Fa:225:VAL:HG11	1.98	0.46
41:Ha:65:ILE:O	41:Ha:76:LEU:HD23	2.15	0.46
77:aa:16:VAL:HG22	77:aa:16:VAL:O	2.16	0.46
1:2b:195:G:N7	11:Ib:141:ARG:NH1	2.63	0.45
1:2b:463:U:C2	1:2b:464:A:C8	3.03	0.45
1:2b:629:U:H3	1:2b:970:A:H62	1.63	0.45
1:2b:1242:A:O2'	1:2b:1244:A:OP1	2.33	0.45
1:2b:1254:U:OP2	15:Mb:46:ARG:NH2	2.46	0.45
2:Ab:79:ARG:NH2	2:Ab:164:ASN:O	2.42	0.45
7:Eb:16:HIS:O	7:Eb:19:LEU:N	2.43	0.45
7:Eb:95:THR:HG22	26:Yb:16:PRO:HG2	1.97	0.45
11:Ib:12:SER:OG	11:Ib:14:THR:N	2.47	0.45
33:gb:64:HIS:CD2	33:gb:68:VAL:HG22	2.52	0.45
41:Ey:67:GLY:N	41:Ey:68:PRO:HA	2.32	0.45
43:Gy:143:ILE:O	43:Gy:146:LYS:N	2.42	0.45
45:Iy:150:GLU:OE2	45:Iy:153:ARG:NH2	2.47	0.45
48:My:22:LEU:HD12	48:My:31:LYS:O	2.16	0.45
48:My:40:ASP:OD1	48:My:43:LYS:N	2.39	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:Ry:128:LYS:NZ	78:1b:1724:U:OP2	2.43	0.45
60:Yy:91:ASN:OD1	60:Yy:93:ALA:HB3	2.16	0.45
61:Zy:41:ALA:C	61:Zy:42:LEU:HD12	2.41	0.45
62:ay:9:ARG:NH1	78:1b:1431:G:OP2	2.42	0.45
62:ay:144:VAL:HG22	62:ay:145:VAL:H	1.82	0.45
67:fy:23:ASN:HD21	78:1b:632:G:H21	1.64	0.45
78:1b:195:U:H2'	78:1b:196:G:O4'	2.17	0.45
78:1b:1001:G:N2	78:1b:1041:U:OP1	2.47	0.45
78:1b:1595:U:O2'	78:1b:1596:C:OP2	2.25	0.45
1:a:45:U:N3	1:a:434:G:O2'	2.49	0.45
17:p:16:VAL:HG13	17:p:80:HIS:O	2.15	0.45
18:r:129:PHE:O	18:r:137:ARG:NH1	2.41	0.45
33:7:293:ALA:O	33:7:301:LEU:HD12	2.16	0.45
78:Aa:142:C:H2'	78:Aa:143:G:O4'	2.16	0.45
78:Aa:655:C:P	66:P:27:ARG:HE	2.39	0.45
78:Aa:1043:C:O2	45:La:92:HIS:NE2	2.48	0.45
78:Aa:1445:U:OP2	78:Aa:1446:A:O2'	2.33	0.45
78:Aa:1523:U:OP2	78:Aa:1604:G:O2'	2.34	0.45
78:Aa:3230:G:H2'	78:Aa:3231:U:O4'	2.16	0.45
36:Ca:138:A:H2'	36:Ca:139:U:O4'	2.16	0.45
43:Ja:135:GLY:O	43:Ja:139:VAL:HG23	2.16	0.45
43:Ja:190:VAL:O	43:Ja:190:VAL:HG12	2.15	0.45
49:Pa:104:GLU:OE2	49:Pa:108:ARG:NE	2.36	0.45
53:C:91:SER:OG	53:C:92:GLN:N	2.48	0.45
59:I:59:SER:CB	59:I:102:LEU:HD21	2.45	0.45
72:V:53:THR:HG23	72:V:53:THR:O	2.16	0.45
1:2b:140:A:OP2	1:2b:140:A:H4'	2.16	0.45
1:2b:1160:A:N1	1:2b:1618:C:N4	2.64	0.45
1:2b:1334:U:O2'	22:Ub:85:ARG:NH2	2.49	0.45
1:2b:1367:G:OP1	18:Qb:68:ARG:NH2	2.44	0.45
6:Db:150:MET:HE2	6:Db:152:PHE:CZ	2.52	0.45
6:Db:172:THR:O	6:Db:173:ARG:NH1	2.42	0.45
7:Eb:210:ILE:HB	7:Eb:218:PHE:CE1	2.52	0.45
8:Fb:24:VAL:C	8:Fb:25:LEU:HD22	2.41	0.45
25:Xb:138:GLU:N	25:Xb:138:GLU:OE2	2.50	0.45
37:Ay:126:LEU:HD22	78:1b:2157:G:C2	2.52	0.45
38:By:137:TYR:O	38:By:138:ALA:HB3	2.16	0.45
42:Fy:84:VAL:HG23	42:Fy:117:VAL:HB	1.99	0.45
48:My:31:LYS:NZ	48:My:51:ALA:O	2.39	0.45
52:Qy:164:ARG:NH1	78:1b:668:G:O2'	2.50	0.45
55:Ty:71:SER:HG	55:Ty:72:VAL:H	1.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:fy:66:VAL:HG12	67:fy:67:MET:N	2.31	0.45
78:1b:86:G:O2'	78:1b:98:G:O6	2.33	0.45
78:1b:999:G:N2	78:1b:1050:U:O2	2.49	0.45
78:1b:1693:C:O2'	78:1b:1772:U:O2'	2.07	0.45
78:1b:3267:A:OP1	78:1b:3268:A:N6	2.47	0.45
1:a:191:C:H41	11:j:137:LYS:CD	2.29	0.45
1:a:930:A:P	28:1:32:LYS:HZ2	2.39	0.45
1:a:1312:A:H2'	1:a:1313:A:C8	2.51	0.45
2:b:183:ARG:NH1	2:b:191:ARG:O	2.48	0.45
6:e:101:GLN:O	6:e:104:SER:OG	2.21	0.45
8:g:68:ILE:HD13	18:r:114:ARG:CZ	2.45	0.45
10:i:12:ALA:HB3	10:i:13:PRO:HD3	1.98	0.45
30:4:6:VAL:HG23	30:4:7:TRP:CE3	2.51	0.45
78:Aa:106:A:C5	78:Aa:107:A:C2	3.04	0.45
78:Aa:1550:C:O2'	78:Aa:2167:A:N6	2.44	0.45
78:Aa:1713:G:N2	78:Aa:1730:G:HO2'	2.13	0.45
78:Aa:2842:U:P	78:Aa:2844:C:H42	2.39	0.45
78:Aa:3147:G:O4'	38:Ea:101:SER:OG	2.30	0.45
78:Aa:3183:A:OP1	50:Qa:37:ARG:NH2	2.45	0.45
43:Ja:106:LYS:O	43:Ja:110:THR:HG23	2.16	0.45
50:Qa:41:LEU:O	50:Qa:42:ASN:ND2	2.49	0.45
67:Q:35:VAL:HG13	67:Q:40:ASP:CB	2.45	0.45
76:Z:22:GLN:O	76:Z:75:VAL:HG22	2.16	0.45
1:2b:1250:U:O2'	32:fb:135:HIS:O	2.34	0.45
1:2b:1473:U:O4	8:Fb:180:ARG:NE	2.40	0.45
1:2b:1493:A:O2'	1:2b:1494:C:O5'	2.24	0.45
5:Cb:82:ASN:OD1	5:Cb:101:VAL:HG12	2.15	0.45
7:Eb:176:ASP:OD1	7:Eb:177:ALA:N	2.48	0.45
14:Lb:42:PHE:CD2	14:Lb:140:VAL:HG21	2.51	0.45
15:Mb:74:LEU:HD13	32:fb:108:VAL:CG2	2.46	0.45
17:Ob:89:THR:HG21	17:Ob:127:ARG:O	2.17	0.45
24:Wb:75:ILE:N	24:Wb:126:LEU:O	2.41	0.45
25:Xb:32:ARG:O	25:Xb:35:GLY:N	2.49	0.45
28:ab:83:ILE:HG22	28:ab:84:VAL:H	1.80	0.45
41:Ey:15:VAL:HG22	41:Ey:16:ALA:N	2.30	0.45
41:Ey:164:SER:HG	67:fy:6:ARG:H	1.64	0.45
43:Gy:162:LEU:HD11	78:1b:147:U:O2	2.15	0.45
49:Ny:126:THR:O	49:Ny:126:THR:HG22	2.14	0.45
55:Ty:108:ARG:NH2	78:1b:1098:A:OP1	2.49	0.45
55:Ty:138:SER:OG	55:Ty:139:ARG:N	2.50	0.45
67:fy:49:ILE:N	67:fy:69:GLY:O	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:ib:56:ARG:O	70:ib:60:LEU:HD12	2.15	0.45
78:1b:305:U:O2	78:1b:2784:G:N2	2.49	0.45
78:1b:1375:G:C2	78:1b:1376:C:C5	3.04	0.45
78:1b:1564:U:O2	78:1b:1576:G:C2	2.69	0.45
1:a:1183:A:O2'	1:a:1210:C:O3'	2.33	0.45
1:a:1383:G:H2'	1:a:1384:A:O4'	2.16	0.45
2:b:38:PHE:CG	19:s:109:LEU:HD12	2.51	0.45
2:b:154:GLU:O	2:b:156:VAL:HG13	2.16	0.45
7:f:102:VAL:O	7:f:110:ALA:N	2.41	0.45
8:g:163:SER:OG	34:3:47:PRO:O	2.32	0.45
15:n:63:VAL:HG11	15:n:66:VAL:HG11	1.99	0.45
21:u:126:GLU:OE1	21:u:126:GLU:N	2.41	0.45
26:z:125:LEU:HD23	26:z:125:LEU:C	2.42	0.45
34:3:18:ARG:NH2	34:3:23:GLY:O	2.49	0.45
78:Aa:268:A:H61	78:Aa:295:A:H3'	1.82	0.45
78:Aa:342:A:H4'	78:Aa:343:U:H5'	1.99	0.45
78:Aa:597:G:O3'	42:Ia:41:ARG:NH2	2.50	0.45
78:Aa:3160:U:N3	78:Aa:3291:G:C6	2.84	0.45
39:Fa:33:ASP:O	39:Fa:37:THR:HG23	2.16	0.45
42:Ia:148:VAL:HG12	42:Ia:181:ILE:HD11	1.98	0.45
64:N:17:VAL:O	64:N:21:GLY:N	2.42	0.45
66:P:76:VAL:HG13	66:P:81:ASP:HB2	1.99	0.45
68:R:20:ILE:HD11	68:R:32:ALA:HB1	1.98	0.45
1:2b:994:G:OP1	1:2b:1778:G:O2'	2.33	0.45
1:2b:1345:A:N6	1:2b:1377:U:O2'	2.49	0.45
1:2b:1445:G:H22	32:fb:87:THR:HG21	1.82	0.45
3:Ba:109:LYS:O	3:Ba:112:SER:OG	2.30	0.45
33:gb:91:LEU:HD12	33:gb:92:TRP:N	2.31	0.45
33:gb:240:VAL:HG22	33:gb:241:PHE:N	2.31	0.45
37:Ay:3:ARG:HH11	78:1b:911:C:H42	1.64	0.45
38:By:27:ALA:HB3	38:By:218:ILE:HG22	1.98	0.45
40:Dy:64:ILE:HG12	40:Dy:105:ILE:HD11	1.98	0.45
40:Dy:176:SER:OG	40:Dy:178:ASN:OD1	2.34	0.45
42:Fy:39:GLU:O	42:Fy:42:ALA:HB3	2.17	0.45
44:Hy:93:VAL:CG1	74:mb:78:ILE:HD11	2.46	0.45
45:Iy:197:VAL:HG22	45:Iy:198:LYS:H	1.80	0.45
48:My:68:LEU:C	48:My:69:THR:HG1	2.19	0.45
48:My:90:VAL:O	48:My:93:LYS:N	2.50	0.45
49:Ny:98:LEU:HD12	49:Ny:98:LEU:N	2.31	0.45
52:Qy:179:ARG:NH1	78:1b:2789:U:OP1	2.49	0.45
53:Ry:83:GLY:N	78:1b:1864:A:OP1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:ay:96:LYS:O	62:ay:98:THR:HG22	2.16	0.45
71:jb:34:CYS:HB3	71:jb:37:CYS:SG	2.57	0.45
71:jb:43:LYS:NZ	78:1b:55:G:OP1	2.44	0.45
74:mb:95:VAL:HG12	74:mb:96:CYS:N	2.32	0.45
78:1b:873:C:H3'	78:1b:874:U:H4'	1.98	0.45
78:1b:1616:U:C2	78:1b:1617:G:C8	3.05	0.45
78:1b:1828:A:H2'	78:1b:1829:G:O4'	2.17	0.45
78:1b:1883:A:H2'	78:1b:1884:A:O4'	2.16	0.45
78:1b:2432:A:H2'	78:1b:2433:U:O4'	2.17	0.45
78:1b:2943:G:H2'	78:1b:2944:U:O4'	2.16	0.45
1:a:1454:G:H2'	1:a:1455:G:C1'	2.46	0.45
1:a:1683:C:H42	1:a:1719:A:N6	2.14	0.45
2:b:63:ILE:C	2:b:65:ALA:O	2.59	0.45
8:g:26:ALA:HB3	18:r:28:LEU:HB3	1.97	0.45
11:j:36:THR:OG1	11:j:36:THR:O	2.34	0.45
19:s:77:GLU:OE1	19:s:80:ARG:NH2	2.47	0.45
78:Aa:266:A:N6	70:T:30:LYS:HA	2.31	0.45
78:Aa:504:A:O2'	39:Fa:315:LYS:NZ	2.35	0.45
78:Aa:720:A:OP1	52:B:69:ARG:NH2	2.49	0.45
78:Aa:797:U:N3	78:Aa:798:G:N7	2.65	0.45
78:Aa:1684:U:OP1	56:F:86:LYS:NZ	2.27	0.45
78:Aa:2646:C:N4	78:Aa:2647:A:H62	2.13	0.45
78:Aa:2728:G:O2'	78:Aa:2729:U:OP2	2.34	0.45
35:Bb:16:U:N3	35:Bb:65:G:N1	2.65	0.45
37:Da:101:VAL:HG23	37:Da:164:GLY:O	2.17	0.45
47:Na:93:ILE:HG22	47:Na:94:GLY:N	2.31	0.45
52:B:78:ASN:OD1	52:B:78:ASN:N	2.49	0.45
54:D:7:TYR:CB	54:D:61:ILE:HD11	2.46	0.45
56:F:29:ASP:O	56:F:32:SER:OG	2.10	0.45
61:K:72:ILE:HD11	61:K:107:ARG:HB3	1.98	0.45
68:R:98:GLN:HB3	68:R:102:LYS:HZ1	1.81	0.45
1:2b:396:G:N1	1:2b:399:A:OP2	2.49	0.45
1:2b:538:A:O4'	1:2b:543:C:N4	2.49	0.45
1:2b:1206:U:OP2	1:2b:1207:C:O2'	2.31	0.45
1:2b:1512:G:H2'	1:2b:1513:G:O4'	2.16	0.45
3:Ba:71:ALA:HB2	3:Ba:80:SER:HA	1.99	0.45
5:Cb:118:ALA:HB3	5:Cb:124:ALA:HB2	1.99	0.45
16:Nb:22:ALA:HB1	16:Nb:23:PRO:HA	1.99	0.45
37:Ay:117:GLU:OE2	37:Ay:122:ASP:N	2.50	0.45
37:Ay:169:ILE:HG22	37:Ay:170:ALA:N	2.32	0.45
40:Dy:85:ARG:NH2	40:Dy:250:ASP:O	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Dy:290:ILE:O	40:Dy:295:GLY:N	2.49	0.45
44:Hy:92:TYR:CZ	44:Hy:101:VAL:HG21	2.52	0.45
45:Iy:52:LEU:HD11	45:Iy:156:ARG:HG3	1.98	0.45
49:Ny:75:VAL:HG21	49:Ny:89:VAL:HG22	1.98	0.45
50:Oy:92[A]:THR:O	50:Oy:95[A]:GLY:N	2.39	0.45
50:Oy:137[A]:THR:HG22	50:Oy:138[A]:LEU:H	1.82	0.45
67:fy:21:ARG:NH2	78:1b:1150:A:O2'	2.50	0.45
78:1b:792:G:H2'	78:1b:793:C:C6	2.50	0.45
78:1b:2196:C:O2'	78:1b:2270:A:N3	2.34	0.45
1:a:74:U:N3	58:H:116:LYS:HG3	2.28	0.45
1:a:252:U:H1'	7:f:131:LEU:HD23	1.98	0.45
1:a:961:U:O2'	16:o:86:GLU:OE2	2.34	0.45
1:a:1446:A:O2'	1:a:1448:G:N7	2.38	0.45
6:e:105:MET:HE1	6:e:118:ALA:HB1	1.99	0.45
9:h:113:ILE:HG23	58:H:75:THR:HG21	1.97	0.45
10:i:133:THR:HG22	10:i:157:LYS:O	2.17	0.45
11:j:37:LYS:HD3	11:j:95:THR:HG23	1.99	0.45
12:k:85:VAL:HG11	12:k:104:PHE:CE1	2.51	0.45
78:Aa:509:U:O2	78:Aa:583:G:C2	2.70	0.45
78:Aa:735:A:HO2'	78:Aa:736:A:P	2.39	0.45
78:Aa:838:G:O6	78:Aa:855:U:C2	2.69	0.45
78:Aa:1688:U:C2	78:Aa:1689:U:C5	3.05	0.45
78:Aa:2996:U:O2'	78:Aa:2997:G:OP1	2.34	0.45
39:Fa:152:VAL:HG12	39:Fa:153:SER:N	2.32	0.45
46:Ma:71:VAL:HG11	46:Ma:79:ILE:HD12	1.99	0.45
49:Pa:17:ASP:OD1	49:Pa:17:ASP:N	2.47	0.45
50:Qa:181:ALA:C	50:Qa:184:THR:HG22	2.41	0.45
64:N:87:VAL:HG23	64:N:87:VAL:O	2.16	0.45
1:2b:271:A:H2'	1:2b:272:U:C1'	2.46	0.45
7:Eb:94:ALA:C	7:Eb:95:THR:HG23	2.41	0.45
7:Eb:212:ASP:OD1	7:Eb:216:ASN:N	2.49	0.45
8:Fb:123:VAL:CG1	27:Zb:92:ILE:HD13	2.46	0.45
9:Gb:158:ILE:N	9:Gb:158:ILE:HD12	2.31	0.45
15:Mb:66:VAL:HG23	15:Mb:67:THR:N	2.31	0.45
18:Qb:13:LYS:HG3	18:Qb:14:LYS:H	1.81	0.45
20:Sb:100:THR:C	20:Sb:101:LEU:HD23	2.41	0.45
21:Tb:22:LEU:HD12	21:Tb:22:LEU:N	2.32	0.45
33:gb:23:LEU:HD11	33:gb:291:SER:O	2.16	0.45
37:Ay:243:THR:HG22	37:Ay:244:GLY:N	2.32	0.45
40:Dy:232:ASP:OD1	40:Dy:235:SER:OG	2.32	0.45
60:Yy:57:LEU:HD23	60:Yy:57:LEU:C	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:ey:100:ILE:HG22	66:ey:101:SER:N	2.31	0.45
70:ib:56:ARG:C	70:ib:60:LEU:HD12	2.42	0.45
78:1b:760:G:N2	78:1b:770:G:O2'	2.40	0.45
78:1b:1220:U:O2	78:1b:1222:G:N1	2.50	0.45
78:1b:1904:C:H4'	78:1b:2923:U:OP1	2.16	0.45
78:1b:3167:A:H2'	78:1b:3168:A:O4'	2.16	0.45
1:a:875:G:O2'	1:a:937:C:O4'	2.35	0.45
1:a:1662:G:H2'	1:a:1663:G:H8	1.81	0.45
2:b:110:TYR:CZ	2:b:111:ILE:HD11	2.51	0.45
10:i:105:THR:OG1	10:i:106:SER:N	2.50	0.45
12:k:133:HIS:O	12:k:134:ILE:HG23	2.17	0.45
4:q:64:LYS:NZ	4:q:92:SER:OG	2.42	0.45
18:r:8:GLN:OE1	18:r:21:HIS:NE2	2.47	0.45
25:y:85:ALA:CB	25:y:104:LEU:HD22	2.47	0.45
25:y:133:LEU:HD23	25:y:133:LEU:C	2.41	0.45
78:Aa:39:A:H3'	78:Aa:40:A:H4'	1.98	0.45
78:Aa:1823:A:H2'	78:Aa:1824:U:O4'	2.16	0.45
78:Aa:2771:U:C4	78:Aa:2773:C:N4	2.84	0.45
78:Aa:2947:G:C2	38:Ea:250:ALA:HB1	2.51	0.45
36:Ca:36:G:OP2	69:S:86:ARG:N	2.44	0.45
39:Fa:77:VAL:HG12	39:Fa:78:GLY:O	2.16	0.45
39:Fa:119:ARG:HE	39:Fa:271:LYS:HZ2	1.63	0.45
39:Fa:328:ASN:O	39:Fa:328:ASN:ND2	2.50	0.45
40:Ga:98:ALA:HB1	40:Ga:162:ALA:HB2	1.99	0.45
40:Ga:217:GLU:O	40:Ga:220:SER:OG	2.32	0.45
41:Ha:66:SER:OG	41:Ha:142:ASP:OD1	2.35	0.45
42:Ia:127:LEU:HA	42:Ia:130:ILE:HG22	1.99	0.45
42:Ia:216:VAL:HG21	42:Ia:227:GLY:HA2	1.99	0.45
43:Ja:77:GLN:HA	43:Ja:229:VAL:HG11	1.97	0.45
46:Ma:17:LEU:HD11	46:Ma:19:LEU:CD2	2.46	0.45
49:Pa:153:ASP:CG	49:Pa:155:VAL:HG12	2.42	0.45
52:B:16:ARG:NH1	52:B:53:PHE:O	2.49	0.45
52:B:62:VAL:HG22	52:B:142:GLY:HA2	1.99	0.45
52:B:82:VAL:O	52:B:83:VAL:HG23	2.17	0.45
70:T:73:ALA:HB3	70:T:83:ALA:HB1	1.99	0.45
77:aa:10:ILE:HG22	77:aa:27:LYS:HG3	1.99	0.45
1:2b:841:U:H2'	1:2b:842:C:O4'	2.17	0.45
1:2b:1546:G:OP1	20:Sb:123:ARG:NH2	2.44	0.45
5:Cb:237:VAL:HG11	5:Cb:242:ILE:HD11	1.99	0.45
14:Lb:57:LYS:HG2	14:Lb:131:ILE:HD12	1.99	0.45
33:gb:215:GLY:O	33:gb:218:GLY:N	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:gb:248:ASN:OD1	33:gb:249:ARG:N	2.48	0.45
38:By:256:HIS:HA	38:By:257:PRO:C	2.42	0.45
39:Cy:197:ARG:NH1	78:1b:1381:A:OP1	2.37	0.45
39:Cy:320:ASN:O	39:Cy:323:VAL:HG22	2.17	0.45
40:Dy:289:LYS:O	40:Dy:293:LEU:N	2.43	0.45
46:Jy:30:LEU:O	46:Jy:34:SER:N	2.46	0.45
47:Ly:76:THR:HG21	47:Ly:103:ASN:OD1	2.16	0.45
65:dy:67:VAL:HG12	65:dy:68:GLU:N	2.32	0.45
67:fy:26:ASN:HA	67:fy:88:ASN:ND2	2.32	0.45
70:ib:5:THR:OG1	70:ib:6:GLY:N	2.49	0.45
76:ob:3:ASN:OD1	76:ob:4:VAL:N	2.50	0.45
78:1b:39:A:H3'	78:1b:40:A:H4'	1.98	0.45
78:1b:83:U:H2'	78:1b:84:U:O4'	2.17	0.45
78:1b:616:G:H21	78:1b:3274:A:H61	1.65	0.45
78:1b:1240:A:H61	78:1b:1244:A:C5'	2.30	0.45
78:1b:1670:C:O2'	78:1b:1860:G:OP1	2.29	0.45
78:1b:2273:G:N2	78:1b:2312:A:O5'	2.49	0.45
78:1b:2819:A:N6	78:1b:2870:C:C2	2.84	0.45
78:1b:3162:C:N3	78:1b:3289:G:N1	2.64	0.45
1:a:286:C:OP2	9:h:189:HIS:NE2	2.50	0.45
1:a:475:A:OP2	12:k:126:ARG:NH2	2.49	0.45
1:a:1583:A:OP1	18:r:135:ARG:NH2	2.47	0.45
5:d:53:ILE:HG13	5:d:72:LEU:HD23	1.98	0.45
7:f:182:TYR:HB2	7:f:228:ILE:HD13	1.98	0.45
7:f:196:VAL:HG11	7:f:211:LYS:HB2	1.99	0.45
8:g:164:PRO:O	8:g:168:VAL:HG23	2.17	0.45
9:h:39:GLU:HA	9:h:46:LYS:HA	1.99	0.45
12:k:27:GLU:OE1	12:k:42:ILE:HG21	2.16	0.45
19:s:102:VAL:N	19:s:120:SER:O	2.50	0.45
25:y:17:VAL:HG23	25:y:20:ARG:NH2	2.32	0.45
25:y:88:PRO:HG2	25:y:132:LEU:HD13	1.99	0.45
78:Aa:100:A:H2'	78:Aa:101:G:N3	2.32	0.45
78:Aa:421:G:N1	78:Aa:2384:A:O4'	2.49	0.45
78:Aa:1922:A:H62	78:Aa:1929:G:H21	1.65	0.45
78:Aa:2221:G:N2	78:Aa:2224:A:OP2	2.24	0.45
35:Bb:74:C:H2'	35:Bb:75:G:O4'	2.16	0.45
41:Ha:72:ASN:ND2	41:Ha:159:LEU:O	2.48	0.45
46:Ma:82:ARG:HB2	46:Ma:112:LEU:HD12	1.98	0.45
47:Na:76:THR:O	47:Na:79:GLU:N	2.49	0.45
64:N:10:ILE:HD12	64:N:10:ILE:N	2.31	0.45
65:O:41:LYS:O	65:O:45:GLY:CA	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:241:U:O2'	1:2b:242:U:O5'	2.35	0.45
1:2b:934:C:C4	1:2b:1077:C:H4'	2.52	0.45
10:Hb:45:SER:OG	10:Hb:46:ILE:N	2.48	0.45
15:Mb:25:GLU:O	15:Mb:29:LYS:NZ	2.49	0.45
30:db:24:CYS:SG	30:db:39:CYS:CB	3.04	0.45
32:fb:144:CYS:O	32:fb:147:VAL:N	2.50	0.45
36:3b:34:U:O2	71:jb:70:VAL:HG12	2.17	0.45
40:Dy:113:LEU:HB3	40:Dy:115:LEU:HD23	1.99	0.45
41:Ey:69:PHE:O	41:Ey:73:GLY:N	2.42	0.45
48:My:8:LYS:NZ	78:1b:3198:U:O3'	2.50	0.45
49:Ny:12:ARG:HG2	78:1b:268:A:H2'	1.99	0.45
50:Oy:89[A]:SER:O	50:Oy:91[A]:LYS:N	2.50	0.45
59:Xy:31:THR:OG1	59:Xy:31:THR:O	2.34	0.45
66:ey:11:LYS:NZ	78:1b:1404:G:OP2	2.43	0.45
68:gy:97:GLU:O	68:gy:101:VAL:N	2.42	0.45
74:mb:114:LYS:NZ	78:1b:3106:A:O3'	2.50	0.45
78:1b:267:G:C6	78:1b:319:A:C5	3.05	0.45
78:1b:715:A:H4'	78:1b:716:A:OP1	2.16	0.45
78:1b:2552:C:N3	78:1b:2553:U:N3	2.65	0.45
1:a:1157:A:O2'	1:a:1159:C:OP2	2.34	0.45
11:j:4:SER:OG	11:j:28:GLU:OE1	2.25	0.45
12:k:81:VAL:O	12:k:150:LEU:HD11	2.17	0.45
12:k:112:GLN:HG3	12:k:148:VAL:HG11	1.98	0.45
78:Aa:1220:U:O4'	78:Aa:1286:A:N6	2.50	0.45
37:Da:30:ARG:NH2	37:Da:33:ASP:OD2	2.50	0.45
40:Ga:150:LEU:HD12	46:Ma:143:ARG:HA	1.99	0.45
41:Ha:40:LEU:HD13	41:Ha:84:VAL:HG11	1.97	0.45
45:La:28:ASP:OD1	45:La:29:SER:N	2.50	0.45
46:Ma:91:LEU:HD12	46:Ma:163:PHE:CE2	2.52	0.45
54:D:117:ARG:C	54:D:121:ILE:HD12	2.41	0.45
62:L:73:LEU:HD12	62:L:109:TYR:CE2	2.52	0.45
1:2b:271:A:H61	9:Gb:185:GLN:CD	2.25	0.45
1:2b:628:G:H21	78:1b:846:A:H2	1.64	0.45
1:2b:1378:U:H2'	1:2b:1379:C:O4'	2.16	0.45
9:Gb:49:VAL:HG13	9:Gb:114:VAL:HG22	1.98	0.45
16:Nb:71:ILE:O	16:Nb:74:ILE:N	2.40	0.45
39:Cy:286:VAL:HG22	39:Cy:290:ILE:HD11	1.99	0.45
40:Dy:28:THR:HG21	40:Dy:30:TYR:CE1	2.52	0.45
40:Dy:63:GLN:HB3	40:Dy:65:ILE:HD11	1.99	0.45
41:Ey:74:VAL:HG12	41:Ey:75:PRO:O	2.17	0.45
48:My:64:VAL:HG12	48:My:65:LEU:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:Sy:87:THR:HG22	54:Sy:88:HIS:N	2.30	0.45
69:hb:6:ALA:O	69:hb:9:LEU:N	2.50	0.45
74:mb:104:PRO:HB2	74:mb:107:ALA:HB2	1.98	0.45
78:1b:220:G:C6	78:1b:1389:G:C2	3.05	0.45
78:1b:1421:G:C2	78:1b:1422:G:C8	3.05	0.45
78:1b:1782:U:H2'	78:1b:1783:U:O4'	2.17	0.45
1:a:96:G:N2	1:a:426:G:O5'	2.46	0.45
1:a:788:A:OP2	7:f:106:LYS:NZ	2.49	0.45
3:c:121:ILE:HG23	3:c:165:ARG:HE	1.82	0.45
5:d:140:ARG:HH21	5:d:226:THR:HG21	1.81	0.45
6:e:175:VAL:HG12	6:e:182:LEU:O	2.16	0.45
7:f:69:HIS:NE2	26:z:17:LEU:O	2.50	0.45
9:h:109:LEU:CD2	9:h:111:LEU:HD21	2.47	0.45
10:i:126:LEU:O	10:i:130:VAL:HG22	2.17	0.45
20:t:116:LEU:HA	20:t:119:ILE:HG22	1.99	0.45
26:z:12:VAL:HG22	26:z:23:PHE:HB3	1.98	0.45
26:z:83:LYS:CE	26:z:91:LEU:HD22	2.47	0.45
78:Aa:297:G:O2'	70:T:32:ALA:O	2.35	0.45
78:Aa:785:G:O5'	52:B:92:ARG:NH1	2.50	0.45
78:Aa:1048:A:H5''	78:Aa:1049:C:C5'	2.47	0.45
78:Aa:1126:G:OP1	45:La:98:ARG:NH2	2.50	0.45
78:Aa:1186:G:N3	54:D:112:ALA:HB1	2.31	0.45
78:Aa:1523:U:H2'	78:Aa:1607:U:O2	2.17	0.45
78:Aa:1864:A:OP1	53:C:82:LYS:N	2.49	0.45
78:Aa:3273:A:H2'	78:Aa:3274:A:O4'	2.17	0.45
36:Ca:80:A:O2'	36:Ca:82:U:O2	2.29	0.45
39:Fa:150:LEU:HD23	39:Fa:151:VAL:N	2.32	0.45
72:V:32:ASN:OD1	72:V:36:LYS:N	2.40	0.45
72:V:46:ARG:NH2	72:V:47:GLY:O	2.50	0.45
1:2b:424:C:N4	1:2b:429:G:N2	2.65	0.45
1:2b:819:G:O6	1:2b:853:G:C5	2.68	0.45
1:2b:819:G:H4'	1:2b:820:U:O5'	2.17	0.45
1:2b:827:C:N4	1:2b:846:G:O6	2.50	0.45
1:2b:1267:G:OP1	1:2b:1435:G:N2	2.50	0.45
1:2b:1528:U:H5'	8:Fb:109:LYS:HZ2	1.82	0.45
8:Fb:109:LYS:O	8:Fb:113:ILE:N	2.50	0.45
30:db:22:ARG:NH2	30:db:36:LEU:O	2.50	0.45
45:Iy:197:VAL:HG22	45:Iy:198:LYS:N	2.32	0.45
54:Sy:33:ASN:OD1	54:Sy:36:ILE:HD12	2.17	0.45
55:Ty:116:ARG:HE	55:Ty:128:LEU:CD1	2.30	0.45
56:Uy:38:ILE:HG23	56:Uy:50:LEU:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:ib:78:GLY:N	78:1b:272:G:H21	2.15	0.45
72:kb:8:ILE:H	72:kb:8:ILE:HD12	1.82	0.45
78:1b:1024:G:H21	78:1b:1027:A:H62	1.64	0.45
78:1b:1273:A:O2'	78:1b:1274:A:OP1	2.34	0.45
78:1b:1480:G:O2'	78:1b:1871:U:O4	2.35	0.45
78:1b:1750:A:H1'	78:1b:1752:A:N7	2.32	0.45
78:1b:1765:U:H2'	78:1b:1766:G:O4'	2.17	0.45
78:1b:1922:A:H62	78:1b:1929:G:N2	2.14	0.45
78:1b:2375:G:O2'	78:1b:2377:G:OP2	2.22	0.45
1:a:373:G:N2	1:a:603:U:O3'	2.50	0.45
1:a:1572:G:H5''	1:a:1574:G:H21	1.82	0.45
2:b:121:VAL:O	2:b:144:ILE:N	2.48	0.45
6:e:56:GLN:O	6:e:59:LEU:O	2.35	0.45
10:i:30:SER:HB2	10:i:34:LEU:HD22	1.99	0.45
10:i:133:THR:OG1	10:i:133:THR:O	2.35	0.45
15:n:48:SER:O	15:n:52:LEU:HD23	2.17	0.45
4:q:91:GLY:CA	4:q:107:ILE:O	2.65	0.45
4:q:127:ARG:O	4:q:129:GLY:N	2.49	0.45
21:u:11:ALA:HB2	21:u:63:ARG:NH2	2.31	0.45
23:w:15:ARG:HH12	23:w:24:ILE:HD13	1.81	0.45
24:x:102:VAL:CG1	24:x:125:ILE:HD11	2.46	0.45
33:7:42:LEU:HD11	33:7:68:VAL:HG11	1.99	0.45
33:7:144:LEU:HD22	33:7:181:TRP:CZ3	2.52	0.45
78:Aa:230:U:H2'	78:Aa:231:G:O4'	2.17	0.45
78:Aa:1276:U:H2'	78:Aa:1277:C:O4'	2.17	0.45
78:Aa:1380:G:H5'	39:Fa:191:LYS:HZ1	1.81	0.45
78:Aa:1663:C:H2'	78:Aa:1664:G:O4'	2.17	0.45
78:Aa:2561:A:H61	78:Aa:2579:G:H2'	1.82	0.45
78:Aa:2584:G:H3'	78:Aa:2585:G:H4'	1.99	0.45
36:Ca:39:G:N2	36:Ca:104:A:H62	2.12	0.45
38:Ea:46:PHE:N	38:Ea:338:LEU:O	2.45	0.45
39:Fa:230:VAL:HG21	39:Fa:254:ALA:HB1	1.99	0.45
51:A:78:VAL:HG22	51:A:79:THR:N	2.32	0.45
60:J:86:THR:OG1	60:J:88:GLU:OE2	2.35	0.45
1:2b:740:A:C6	1:2b:741:C:N3	2.85	0.44
1:2b:918:U:O3'	17:Ob:18:ARG:NH1	2.50	0.44
1:2b:1020:A:H2'	1:2b:1021:C:H5''	1.99	0.44
1:2b:1102:G:OP1	24:Wb:76:SER:OG	2.29	0.44
1:2b:1252:C:OP1	32:fb:134:ASN:N	2.41	0.44
5:Cb:88:LYS:HG2	5:Cb:95:ARG:HG2	2.00	0.44
8:Fb:162:VAL:HG12	8:Fb:163:SER:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Jb:27:GLU:HG2	12:Jb:42:ILE:HD13	1.99	0.44
18:Qb:44:LEU:O	18:Qb:47:LYS:N	2.50	0.44
33:gb:156:VAL:HG12	33:gb:169:ILE:HG22	1.99	0.44
35:4b:113:C:H2'	35:4b:114:U:O4'	2.17	0.44
37:Ay:14:SER:OG	37:Ay:15:ILE:N	2.49	0.44
38:By:142:ALA:O	38:By:146:ARG:NE	2.28	0.44
41:Ey:5:LYS:O	41:Ey:6:ALA:HB2	2.16	0.44
41:Ey:154:LEU:HD23	41:Ey:157:GLN:CD	2.42	0.44
44:Hy:68:LEU:HD23	44:Hy:68:LEU:C	2.43	0.44
48:My:60:LEU:HA	48:My:63:VAL:HG22	1.99	0.44
49:Ny:97:SER:HG	78:1b:290:G:P	2.37	0.44
49:Ny:99:ARG:O	49:Ny:102:ALA:HB3	2.17	0.44
49:Ny:187:ARG:NH1	78:1b:49:A:N1	2.65	0.44
50:Oy:189[A]:ASP:OD1	50:Oy:190[A]:VAL:N	2.49	0.44
61:Zy:25:ILE:HA	61:Zy:43:VAL:HG12	1.99	0.44
77:pb:49:ARG:HE	77:pb:52:ALA:HA	1.82	0.44
78:1b:1616:U:N3	78:1b:1617:G:N7	2.65	0.44
78:1b:1949:G:H2'	78:1b:1950:U:C6	2.53	0.44
78:1b:3271:G:O2'	78:1b:3272:C:OP1	2.34	0.44
78:1b:3324:C:H2'	78:1b:3325:G:O4'	2.18	0.44
1:a:886:U:H2'	1:a:887:A:O4'	2.17	0.44
1:a:1427:A:HO2'	1:a:1428:G:P	2.34	0.44
1:a:1541:G:H21	1:a:1570:A:H62	1.65	0.44
8:g:47:SER:OG	8:g:128:ASN:ND2	2.50	0.44
18:r:41:PRO:O	18:r:43:ILE:HD12	2.17	0.44
24:x:81:VAL:HG22	24:x:89:TRP:NE1	2.32	0.44
27:0:71:ILE:HD11	27:0:75:LEU:HB3	1.99	0.44
34:3:16:LEU:N	34:3:27:GLN:O	2.50	0.44
78:Aa:1147:G:H2'	78:Aa:1148:G:O4'	2.16	0.44
78:Aa:1748:G:OP1	72:V:44:LYS:NZ	2.45	0.44
78:Aa:2347:U:H2'	78:Aa:2348:A:O4'	2.17	0.44
78:Aa:2776:C:H5'	78:Aa:2777:G:C2	2.52	0.44
38:Ea:284:ARG:NH2	38:Ea:295:ALA:O	2.50	0.44
38:Ea:348:ARG:HA	38:Ea:351:LEU:HD12	1.99	0.44
39:Fa:318:LEU:HD11	42:Ia:146:GLN:HA	1.99	0.44
45:La:174:THR:HG22	45:La:196:PHE:HE1	1.82	0.44
46:Ma:10:ARG:NH1	46:Ma:151:SER:OG	2.41	0.44
51:A:47:TYR:OH	51:A:58:ILE:HD13	2.17	0.44
51:A:109:ALA:HA	51:A:112:LEU:HD12	1.99	0.44
53:C:144:GLN:NE2	53:C:148:ASP:OD2	2.49	0.44
66:P:86:THR:HG23	66:P:115:LEU:HD12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:156:A:H2'	1:2b:157:A:O4'	2.17	0.44
1:2b:656:G:O6	1:2b:679:U:O2	2.35	0.44
1:2b:699:U:O2'	1:2b:700:C:O5'	2.19	0.44
1:2b:1188:G:C2	1:2b:1198:G:C2	3.05	0.44
1:2b:1529:C:O2	21:Tb:12:GLN:NE2	2.51	0.44
5:Cb:193:VAL:HG12	5:Cb:194:GLU:N	2.33	0.44
6:Db:44:THR:O	6:Db:44:THR:HG22	2.17	0.44
11:Ib:168:CYS:SG	11:Ib:169:ILE:N	2.90	0.44
16:Nb:87:ASP:OD1	16:Nb:88:LEU:N	2.49	0.44
20:Sb:12:GLN:NE2	20:Sb:15:LEU:HD13	2.32	0.44
22:Ub:106:ILE:O	22:Ub:107:THR:OG1	2.20	0.44
25:Xb:59:ILE:HD12	25:Xb:71:CYS:CB	2.46	0.44
35:4b:88:G:N1	35:4b:94:C:N3	2.65	0.44
39:Cy:162:THR:HG21	78:1b:209:A:C5	2.52	0.44
44:Hy:1:MET:HE3	54:Sy:142:GLN:CD	2.42	0.44
63:by:42:ASN:OD1	78:1b:1074:U:O2'	2.12	0.44
65:dy:79:ARG:HA	65:dy:89:LEU:HD23	1.99	0.44
66:ey:23:ASP:OD1	66:ey:23:ASP:N	2.45	0.44
77:pb:64:VAL:HG12	77:pb:65:ALA:N	2.32	0.44
78:1b:272:G:N1	78:1b:294:U:O2	2.51	0.44
78:1b:2674:A:H2'	78:1b:2675:C:O4'	2.17	0.44
1:a:279:G:O2'	1:a:280:U:OP1	2.35	0.44
1:a:474:A:O2'	12:k:37:LYS:NZ	2.50	0.44
1:a:1085:G:H22	1:a:1088:A:P	2.41	0.44
1:a:1344:A:O2'	1:a:1345:A:OP1	2.29	0.44
7:f:114:ILE:HD12	7:f:118:GLU:O	2.17	0.44
9:h:1:MET:HE3	9:h:24:ILE:CG2	2.47	0.44
12:k:180:LYS:O	12:k:184:SER:OG	2.34	0.44
23:w:27:ASP:O	23:w:29:HIS:N	2.50	0.44
27:0:71:ILE:HD11	27:0:75:LEU:CB	2.47	0.44
78:Aa:196:G:H22	78:Aa:199:A:C5'	2.30	0.44
78:Aa:434:U:H2'	78:Aa:435:C:C6	2.52	0.44
78:Aa:726:G:H21	78:Aa:744:A:H62	1.64	0.44
78:Aa:880:G:N3	78:Aa:882:A:N6	2.64	0.44
78:Aa:1100:U:O5'	42:Ia:196:LYS:NZ	2.47	0.44
78:Aa:3383:G:H21	65:O:105:GLN:CD	2.23	0.44
38:Ea:296:THR:HG21	38:Ea:357:LYS:CA	2.48	0.44
43:Ja:71:VAL:HG12	43:Ja:72:PRO:O	2.17	0.44
45:La:3:ARG:HH12	45:La:5:PRO:HA	1.82	0.44
68:R:60:ARG:O	68:R:64:THR:HG23	2.18	0.44
68:R:74:ARG:O	68:R:77:GLY:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:S:86:ARG:O	69:S:90:ARG:HG2	2.18	0.44
1:2b:57:G:C4	1:2b:91:G:N2	2.85	0.44
1:2b:1251:U:HO2'	1:2b:1252:C:P	2.36	0.44
1:2b:1410:A:H2'	1:2b:1411:A:C8	2.53	0.44
12:Jb:181:ALA:O	12:Jb:184:SER:OG	2.32	0.44
16:Nb:134:VAL:HG23	16:Nb:135:LEU:N	2.33	0.44
17:Ob:105:LEU:HD12	17:Ob:106:ALA:N	2.32	0.44
25:Xb:131:SER:O	25:Xb:134:ALA:N	2.47	0.44
39:Cy:203:ARG:CZ	78:1b:1383:G:H5''	2.46	0.44
40:Dy:218:ARG:O	40:Dy:221:GLU:N	2.50	0.44
47:Ly:69:VAL:HG22	47:Ly:70:ARG:H	1.83	0.44
52:Qy:80:THR:HG22	52:Qy:81:VAL:N	2.31	0.44
67:fy:75:HIS:N	67:fy:80:VAL:O	2.49	0.44
78:1b:451:U:C4	78:1b:486:A:N1	2.85	0.44
78:1b:1932:A:H2'	78:1b:1933:A:H5'	1.99	0.44
78:1b:2324:A:H3'	78:1b:2325:G:H5'	1.98	0.44
78:1b:2822:U:O2'	78:1b:2941:A:O3'	2.35	0.44
78:1b:3008:A:H2'	78:1b:3009:G:O4'	2.18	0.44
78:1b:3019:U:C4	78:1b:3020:U:C4	3.05	0.44
78:1b:3152:U:OP2	78:1b:3395:G:N1	2.46	0.44
78:1b:3332:U:O4	78:1b:3371:G:O6	2.35	0.44
1:a:752:A:O5'	7:f:187:ARG:NH1	2.50	0.44
1:a:863:A:H62	1:a:964:U:H3	1.65	0.44
1:a:1483:A:H2'	1:a:1484:G:O4'	2.18	0.44
1:a:1600:A:HO2'	1:a:1602:C:H41	1.57	0.44
16:o:20:ARG:O	16:o:65:VAL:HG13	2.16	0.44
24:x:26:LEU:HD12	24:x:61:ILE:O	2.17	0.44
24:x:105:THR:N	24:x:124:LYS:O	2.50	0.44
78:Aa:72:C:N3	78:Aa:74:G:C6	2.85	0.44
78:Aa:2267:C:H2'	78:Aa:2268:U:O4'	2.18	0.44
36:Ca:69:U:H2'	36:Ca:70:G:O4'	2.17	0.44
42:Ia:187:GLU:O	42:Ia:190:THR:C	2.60	0.44
44:Ka:4:ILE:HG13	44:Ka:5:GLN:N	2.32	0.44
48:Oa:20:VAL:HG11	48:Oa:68:LEU:HB2	1.99	0.44
48:Oa:94:TRP:NE1	48:Oa:100:ALA:HB2	2.32	0.44
48:Oa:120:VAL:HG22	50:Qa:197:LEU:HD13	1.99	0.44
49:Pa:80:THR:HG21	49:Pa:86:ASN:C	2.41	0.44
61:K:95:VAL:C	61:K:100:THR:HG21	2.43	0.44
70:T:17:VAL:HG12	70:T:18:THR:N	2.32	0.44
1:2b:215:A:H2'	1:2b:216:U:O4'	2.18	0.44
1:2b:364:G:OP2	1:2b:377:G:N1	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:924:A:O2'	1:2b:987:G:OP1	2.35	0.44
8:Fb:24:VAL:O	8:Fb:25:LEU:HD22	2.18	0.44
9:Gb:20:ASP:CG	9:Gb:23:ARG:HG2	2.42	0.44
10:Hb:4:PRO:O	10:Hb:8:ILE:HG22	2.18	0.44
13:Kb:77:ARG:NE	13:Kb:83:PRO:O	2.50	0.44
15:Mb:74:LEU:HD22	32:fb:108:VAL:HG21	1.99	0.44
21:Tb:18:TYR:O	21:Tb:21:PHE:N	2.50	0.44
25:Xb:87:VAL:HG22	25:Xb:124:VAL:HG21	2.00	0.44
38:By:146:ARG:O	38:By:150:ARG:N	2.46	0.44
40:Dy:234:ASP:OD1	40:Dy:235:SER:N	2.51	0.44
41:Ey:164:SER:HG	67:fy:6:ARG:N	2.16	0.44
50:Oy:22[A]:VAL:HG21	50:Oy:122[A]:GLN:HE21	1.82	0.44
55:Ty:42:ILE:HG21	55:Ty:57:TYR:O	2.17	0.44
55:Ty:121:ALA:HB3	55:Ty:122:GLN:OE1	2.18	0.44
59:Xy:82:LEU:CD2	59:Xy:132:ALA:HB1	2.47	0.44
72:kb:5:ILE:HD13	72:kb:11:PHE:HB2	2.00	0.44
73:lb:23:LEU:O	73:lb:25:GLN:NE2	2.51	0.44
78:1b:129:U:H2'	78:1b:130:A:C8	2.52	0.44
78:1b:283:G:O6	78:1b:304:G:H8	2.01	0.44
78:1b:2314:U:HO2'	78:1b:2315:G:P	2.37	0.44
1:a:435:C:H5''	25:y:50:LYS:HB2	2.00	0.44
1:a:878:G:H21	16:o:101:HIS:HE2	1.65	0.44
1:a:952:A:H5''	16:o:94:LYS:HZ2	1.82	0.44
1:a:1617:U:H2'	1:a:1618:C:C6	2.52	0.44
1:a:1664:C:H2'	1:a:1665:U:C1'	2.48	0.44
9:h:126:ASP:H	58:H:78:ALA:C	2.25	0.44
10:i:172:VAL:HG12	10:i:176:LEU:HD12	1.98	0.44
15:n:50:LYS:NZ	32:6:130:VAL:HG12	2.31	0.44
15:n:118:ALA:O	15:n:119:SER:OG	2.32	0.44
19:s:31:ASN:ND2	19:s:55:THR:HG23	2.32	0.44
33:7:32:LEU:HD11	33:7:44:SER:OG	2.17	0.44
78:Aa:269:G:H22	78:Aa:294:U:H3'	1.82	0.44
78:Aa:860:G:O2'	78:Aa:895:A:H4'	2.17	0.44
78:Aa:1159:A:O2'	78:Aa:1160:C:H5''	2.18	0.44
78:Aa:1176:C:OP2	78:Aa:1177:G:O2'	2.22	0.44
78:Aa:1178:G:N2	78:Aa:1328:C:O2	2.50	0.44
78:Aa:1520:G:H2'	78:Aa:1521:G:O4'	2.17	0.44
78:Aa:1721:U:N3	78:Aa:1724:U:OP2	2.43	0.44
78:Aa:1816:A:H2'	78:Aa:1817:G:H5'	1.99	0.44
37:Da:47:GLN:HA	37:Da:84:THR:HG22	1.98	0.44
43:Ja:81:THR:HG23	43:Ja:82:LEU:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:Oa:69:THR:HG22	48:Oa:70:PHE:N	2.33	0.44
1:2b:705:U:HO2'	1:2b:706:A:P	2.32	0.44
1:2b:756:A:C5	1:2b:757:A:C8	3.06	0.44
1:2b:884:A:H2'	1:2b:885:G:H8	1.82	0.44
1:2b:1522:U:O4	1:2b:1592:A:H4'	2.18	0.44
1:2b:1552:U:H2'	1:2b:1553:G:O4'	2.17	0.44
16:Nb:23:PRO:O	16:Nb:24:ALA:HB3	2.17	0.44
33:gb:289:ALA:HB2	33:gb:305:TYR:CZ	2.53	0.44
35:4b:23:A:H2'	35:4b:24:A:C1'	2.48	0.44
38:By:291:GLU:O	38:By:292:ALA:HB3	2.17	0.44
39:Cy:204:GLY:O	39:Cy:246:ARG:NH2	2.51	0.44
45:Iy:171:TRP:CZ3	45:Iy:182:LEU:HD21	2.53	0.44
48:My:34:ALA:O	48:My:36:VAL:HG23	2.17	0.44
57:Vy:97:ASP:N	57:Vy:97:ASP:OD1	2.47	0.44
71:jb:45:ARG:NH2	78:1b:361:A:O3'	2.51	0.44
78:1b:1539:A:C8	78:1b:1553:U:N3	2.83	0.44
1:a:823:G:N1	1:a:850:A:N6	2.65	0.44
1:a:918:U:H4'	17:p:18:ARG:HD2	1.99	0.44
1:a:953:G:O2'	1:a:954:G:O4'	2.28	0.44
1:a:1456:C:OP1	1:a:1457:C:O2'	2.34	0.44
2:b:140:ASN:ND2	23:w:31:SER:O	2.35	0.44
27:0:65:LEU:HD12	27:0:76:ALA:HB1	1.98	0.44
28:1:51:ARG:NH2	34:3:38:ARG:HE	2.15	0.44
34:3:32:PHE:CE1	34:3:40:ILE:HD13	2.52	0.44
78:Aa:1539:A:N1	78:Aa:1583:A:C5	2.85	0.44
78:Aa:1799:A:H2'	78:Aa:1800:A:C8	2.53	0.44
78:Aa:2974:U:C2	78:Aa:2975:U:C5	3.05	0.44
36:Ca:12:A:P	51:A:3:ARG:HH11	2.41	0.44
36:Ca:139:U:N3	36:Ca:140:G:N7	2.66	0.44
38:Ea:148:LEU:HA	38:Ea:151:ILE:HD12	1.98	0.44
38:Ea:296:THR:HG22	38:Ea:297:SER:N	2.33	0.44
42:Ia:23:ALA:C	42:Ia:26:VAL:HG22	2.43	0.44
43:Ja:65:LEU:CD2	43:Ja:69:LEU:HD13	2.48	0.44
43:Ja:243:GLN:NE2	43:Ja:247:ASP:OD1	2.51	0.44
49:Pa:22:LEU:HD12	49:Pa:26:ARG:NH1	2.32	0.44
50:Qa:120:VAL:HG22	54:D:163:PHE:CD1	2.53	0.44
53:C:148:ASP:OD1	53:C:151:ARG:NH2	2.50	0.44
57:G:19:VAL:HG22	57:G:36:ILE:HG22	1.99	0.44
74:X:85:LEU:HD23	74:X:85:LEU:C	2.42	0.44
77:aa:39:CYS:CB	77:aa:42:CYS:SG	3.05	0.44
1:2b:119:A:H1'	1:2b:397:A:C8	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:970:A:H2'	1:2b:971:A:H5'	2.00	0.44
1:2b:1232:U:H2'	1:2b:1233:G:O4'	2.17	0.44
1:2b:1274:C:O2'	1:2b:1275:A:OP2	2.28	0.44
4:Pb:98:ASN:OD1	4:Pb:99:GLY:N	2.50	0.44
20:Sb:15:LEU:HD23	20:Sb:15:LEU:H	1.81	0.44
22:Ub:37:VAL:HG12	22:Ub:41:ILE:HD12	1.99	0.44
29:bb:13:ALA:O	29:bb:17:ARG:N	2.43	0.44
33:gb:238:ASP:OD2	33:gb:258:THR:OG1	2.25	0.44
37:Ay:244:GLY:O	78:1b:2153:U:H4'	2.17	0.44
40:Dy:139:PRO:O	78:1b:1079:A:O2'	2.28	0.44
45:Iy:21:ARG:NH2	45:Iy:22:TYR:OH	2.50	0.44
48:My:20:VAL:HB	48:My:68:LEU:HB2	1.99	0.44
50:Oy:89[A]:SER:O	50:Oy:92[A]:THR:N	2.51	0.44
56:Uy:65:VAL:HG11	56:Uy:71:PHE:CE2	2.52	0.44
78:1b:837:A:H61	78:1b:856:G:H1'	1.83	0.44
78:1b:933:A:H3'	78:1b:934:G:H5'	1.99	0.44
78:1b:1279:C:H2'	78:1b:1280:C:O4'	2.17	0.44
78:1b:2348:A:H2'	78:1b:2349:U:H5'	2.00	0.44
78:1b:3223:A:H2'	78:1b:3224:G:O4'	2.18	0.44
1:a:748:U:C2	1:a:802:G:C2	3.05	0.44
1:a:987:G:N7	37:Da:249:SER:N	2.65	0.44
3:c:39:GLU:N	3:c:39:GLU:OE1	2.51	0.44
7:f:47:PHE:CE2	7:f:90:ILE:HG21	2.52	0.44
10:i:9:LEU:HD21	10:i:43:PHE:CE2	2.52	0.44
20:t:22:VAL:HG22	20:t:34:THR:HG21	2.00	0.44
22:v:31:VAL:HG23	22:v:32:LYS:N	2.33	0.44
27:0:89:ILE:HD12	27:0:101:TYR:CD2	2.53	0.44
29:2:55:THR:HG21	29:2:60:SER:HA	2.00	0.44
78:Aa:193:C:N4	78:Aa:203:G:O6	2.51	0.44
78:Aa:267:G:H2'	78:Aa:318:A:N7	2.33	0.44
78:Aa:794:U:P	62:L:6:THR:HG1	2.41	0.44
78:Aa:1003:A:N6	78:Aa:1050:U:O4'	2.51	0.44
78:Aa:1079:A:C2	40:Ga:113:LEU:HD22	2.53	0.44
78:Aa:1224:C:C2	78:Aa:1225:A:C8	3.05	0.44
78:Aa:1711:C:H2'	78:Aa:1712:G:O4'	2.16	0.44
78:Aa:3186:A:OP1	54:D:154:HIS:ND1	2.50	0.44
45:La:55:ASN:ND2	45:La:162:GLN:OE1	2.42	0.44
50:Qa:33:ILE:HG22	50:Qa:34:VAL:N	2.33	0.44
55:E:74:VAL:HG12	55:E:75:ILE:N	2.33	0.44
59:I:110:VAL:HG12	59:I:111:ASN:N	2.32	0.44
69:S:95:PHE:O	69:S:98:SER:OG	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:S:100:VAL:HG22	69:S:101:THR:N	2.33	0.44
76:Z:12:CYS:N	76:Z:19:LYS:O	2.50	0.44
1:2b:540:G:N2	1:2b:542:A:H62	2.14	0.44
1:2b:1209:C:N3	1:2b:1455:G:N2	2.66	0.44
4:Pb:86:VAL:HG12	4:Pb:89:MET:HE3	2.00	0.44
16:Nb:31:GLU:OE1	16:Nb:31:GLU:N	2.39	0.44
19:Rb:100:LEU:C	19:Rb:100:LEU:HD12	2.43	0.44
21:Tb:133:ASP:O	21:Tb:137:ALA:N	2.45	0.44
22:Ub:48:HIS:HB2	22:Ub:50:LEU:HD13	2.00	0.44
26:Yb:35:VAL:O	26:Yb:35:VAL:HG12	2.18	0.44
33:gb:87:LYS:HA	33:gb:110:VAL:HG23	2.00	0.44
33:gb:209:THR:O	33:gb:225:LEU:HD23	2.18	0.44
35:4b:115:G:N2	40:Dy:72:ASP:O	2.44	0.44
38:By:159:ARG:NH1	38:By:180:GLU:OE1	2.41	0.44
40:Dy:278:SER:OG	40:Dy:279:LYS:N	2.51	0.44
47:Ly:46:ILE:O	47:Ly:49:ARG:N	2.38	0.44
51:Py:165:VAL:HG22	51:Py:166:VAL:N	2.33	0.44
56:Uy:77:LYS:NZ	78:1b:1679:A:OP2	2.37	0.44
60:Yy:13:ARG:O	60:Yy:17:LYS:HG2	2.18	0.44
69:hb:15:GLU:O	69:hb:18:ALA:N	2.45	0.44
70:ib:72:VAL:O	70:ib:75:LYS:N	2.51	0.44
78:1b:223:U:OP1	78:1b:224:C:N4	2.50	0.44
78:1b:1562:C:HO2'	78:1b:1563:C:C5'	2.23	0.44
78:1b:3006:A:H2'	78:1b:3007:U:O4'	2.18	0.44
1:a:65:A:H2	1:a:84:A:H62	1.64	0.44
2:b:123:VAL:N	2:b:144:ILE:O	2.50	0.44
10:i:64:VAL:HG12	10:i:64:VAL:O	2.18	0.44
12:k:85:VAL:HG13	12:k:103:ASP:CB	2.46	0.44
18:r:14:LYS:O	18:r:123:ARG:NH1	2.50	0.44
24:x:35:ILE:HD11	24:x:61:ILE:HD11	1.99	0.44
78:Aa:298:U:OP1	70:T:33:ALA:HB2	2.17	0.44
78:Aa:591:G:N2	78:Aa:612:U:OP1	2.48	0.44
78:Aa:685:G:OP1	47:Na:39:ARG:NH1	2.42	0.44
78:Aa:840:C:H2'	78:Aa:841:A:O4'	2.17	0.44
78:Aa:1359:C:H2'	78:Aa:1360:C:C6	2.53	0.44
78:Aa:2522:G:O6	37:Da:70:ARG:NH1	2.51	0.44
78:Aa:2676:A:N1	46:Ma:22:SER:OG	2.49	0.44
35:Bb:40:C:C4	35:Bb:42:A:N6	2.85	0.44
38:Ea:60:LEU:HD23	38:Ea:68:HIS:N	2.32	0.44
39:Fa:138:ARG:NE	39:Fa:243:HIS:O	2.49	0.44
43:Ja:111:LYS:HZ2	43:Ja:126:SER:HG	1.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:Ka:31:ARG:NH2	44:Ka:188:THR:OG1	2.47	0.44
45:La:42:THR:HG23	45:La:45:GLU:H	1.83	0.44
53:C:4:LEU:HD21	53:C:33:ALA:HB2	1.99	0.44
59:I:126:LEU:N	59:I:126:LEU:HD23	2.33	0.44
72:V:14:LEU:HD21	72:V:52:TYR:CD2	2.52	0.44
77:aa:39:CYS:SG	77:aa:42:CYS:SG	3.16	0.44
1:2b:1615:C:P	8:Fb:81:ARG:HE	2.41	0.44
3:Ba:123:ALA:HB2	3:Ba:165:ARG:HG3	1.99	0.44
7:Eb:180:LEU:HD11	7:Eb:192:ILE:HG22	1.99	0.44
8:Fb:52:GLU:OE1	8:Fb:52:GLU:N	2.42	0.44
10:Hb:58:LEU:HD11	10:Hb:85:PHE:CE2	2.53	0.44
36:3b:104:A:C8	36:3b:105:A:C8	3.06	0.44
37:Ay:169:ILE:HG22	37:Ay:170:ALA:H	1.82	0.44
39:Cy:14:GLU:HG2	39:Cy:15:ALA:H	1.83	0.44
40:Dy:277:LEU:HD11	40:Dy:281:GLU:HG2	2.00	0.44
46:Jy:31:THR:O	46:Jy:34:SER:N	2.51	0.44
46:Jy:114:ILE:O	46:Jy:114:ILE:HG22	2.17	0.44
54:Sy:47:LYS:C	54:Sy:48:LEU:HD23	2.43	0.44
55:Ty:10:ARG:NH2	78:1b:2641:U:OP2	2.38	0.44
55:Ty:101:CYS:SG	55:Ty:102:ARG:N	2.90	0.44
68:gy:9:ARG:NE	78:1b:1606:U:O4	2.43	0.44
78:1b:2840:C:H2'	78:1b:2841:G:O4'	2.18	0.44
1:a:60:U:N3	1:a:63:G:OP1	2.43	0.44
1:a:1043:A:H61	1:a:1075:C:H42	1.66	0.44
1:a:1183:A:C1'	4:q:100:LYS:HZ3	2.27	0.44
1:a:1488:G:N2	1:a:1495:C:O2	2.42	0.44
1:a:1658:G:N1	1:a:1744:A:N7	2.66	0.44
5:d:90:THR:N	5:d:93:GLY:O	2.46	0.44
21:u:19:ALA:HB2	21:u:56:LYS:HA	2.00	0.44
26:z:74:LEU:HD13	26:z:76:TYR:CE1	2.53	0.44
78:Aa:149:U:OP1	49:Pa:49:ARG:NH2	2.51	0.44
78:Aa:200:C:O2'	78:Aa:201:A:O5'	2.35	0.44
78:Aa:745:C:OP1	52:B:145:ASN:N	2.51	0.44
78:Aa:1009:A:H2'	78:Aa:1010:G:C1'	2.48	0.44
78:Aa:2101:C:HO2'	78:Aa:2102:U:P	2.40	0.44
78:Aa:2420:C:H2'	78:Aa:2421:U:O4'	2.17	0.44
78:Aa:2875:U:OP2	78:Aa:2945:G:N2	2.44	0.44
78:Aa:3179:U:O2	78:Aa:3208:G:O6	2.35	0.44
39:Fa:352:ALA:HB2	42:Ia:71:ALA:O	2.17	0.44
45:La:53:VAL:HG12	45:La:54:SER:N	2.32	0.44
48:Oa:127:LYS:O	48:Oa:130:THR:OG1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:B:62:VAL:HG12	52:B:63:SER:N	2.33	0.44
1:2b:523:G:N1	1:2b:528:U:OP2	2.44	0.44
1:2b:871:G:H2'	1:2b:872:G:C8	2.52	0.44
3:Ba:103:MET:SD	3:Ba:104:ASP:N	2.91	0.44
14:Lb:132:SER:OG	14:Lb:133:LYS:N	2.45	0.44
31:eb:50:VAL:HA	31:eb:54:ARG:HA	2.00	0.44
33:gb:143:THR:C	33:gb:144:LEU:HD22	2.43	0.44
35:4b:76:A:N6	35:4b:103:A:OP2	2.50	0.44
44:Hy:93:VAL:HG12	74:mb:78:ILE:HD11	1.99	0.44
46:Jy:32:ARG:HB3	46:Jy:120:ILE:HG23	1.99	0.44
49:Ny:94:TYR:O	49:Ny:96:ARG:N	2.50	0.44
51:Py:131:ARG:NE	78:1b:880:G:OP2	2.45	0.44
57:Vy:77:ILE:HG22	57:Vy:78:VAL:O	2.17	0.44
62:ay:124:ILE:HA	62:ay:144:VAL:HG12	1.98	0.44
64:cy:57:GLU:OE2	64:cy:69:TYR:OH	2.29	0.44
78:1b:726:G:N1	78:1b:743:C:OP2	2.38	0.44
78:1b:1491:A:H2'	78:1b:1492:G:C5'	2.48	0.44
78:1b:1532:C:H2'	78:1b:1533:U:C6	2.53	0.44
78:1b:1619:A:H2'	78:1b:1620:U:O4'	2.18	0.44
78:1b:3024:A:H62	78:1b:3031:G:N2	2.14	0.44
1:a:1488:G:H3'	1:a:1515:A:H61	1.83	0.44
1:a:1597:A:C2	30:4:14:TYR:CD2	3.06	0.44
1:a:1649:G:H2'	1:a:1650:U:C6	2.53	0.44
3:c:61:LEU:HD21	3:c:96:LEU:HD13	2.00	0.44
5:d:106:ASP:OD1	5:d:106:ASP:N	2.42	0.44
9:h:142:ARG:NE	9:h:148:SER:O	2.49	0.44
12:k:157:ASP:OD1	12:k:158:PHE:N	2.51	0.44
24:x:35:ILE:CD1	24:x:61:ILE:HD11	2.48	0.44
78:Aa:210:U:O3'	39:Fa:220:ARG:NH2	2.51	0.44
78:Aa:520:U:O2'	78:Aa:521:A:OP1	2.28	0.44
78:Aa:1821:U:H3	68:R:70:LYS:HZ1	1.65	0.44
78:Aa:2754:G:O2'	78:Aa:2755:C:OP1	2.34	0.44
78:Aa:3113:A:H2'	78:Aa:3114:A:O4'	2.17	0.44
35:Bb:77:G:N1	35:Bb:102:A:OP2	2.50	0.44
38:Ea:77:THR:HG21	38:Ea:327:CYS:HA	2.00	0.44
47:Na:73:ARG:O	47:Na:96:ALA:HB1	2.17	0.44
63:M:3:LYS:O	63:M:4:SER:OG	2.30	0.44
65:O:8:VAL:HG23	65:O:44:MET:SD	2.58	0.44
1:2b:407:A:O2'	1:2b:1671:A:N3	2.41	0.43
1:2b:511:A:H2'	1:2b:512:A:H5'	2.00	0.43
1:2b:1294:G:N2	1:2b:1322:A:N7	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ba:69:CYS:SG	17:Ob:114:ARG:NH1	2.91	0.43
4:Pb:36:LEU:C	4:Pb:36:LEU:HD12	2.43	0.43
7:Eb:159:THR:OG1	7:Eb:227:VAL:HG22	2.18	0.43
8:Fb:187:ILE:HD12	8:Fb:187:ILE:H	1.81	0.43
10:Hb:30:SER:O	10:Hb:34:LEU:HD11	2.18	0.43
18:Qb:39:VAL:HG12	18:Qb:41:PRO:HD2	1.99	0.43
21:Tb:9:VAL:HG22	21:Tb:10:ALA:N	2.32	0.43
28:ab:78:ALA:HA	28:ab:83:ILE:HD12	1.99	0.43
29:bb:61:THR:O	29:bb:62:ILE:HG12	2.18	0.43
30:db:15:GLY:O	30:db:18:SER:N	2.44	0.43
32:fb:109:ASP:N	32:fb:113:LYS:O	2.42	0.43
39:Cy:166:VAL:HG13	39:Cy:167:ALA:N	2.33	0.43
40:Dy:23:ARG:NE	78:1b:2703:A:OP2	2.49	0.43
49:Ny:138:GLN:HG2	78:1b:19:U:H4'	2.00	0.43
49:Ny:145:ASP:O	49:Ny:147:ARG:N	2.51	0.43
50:Oy:86[A]:GLY:O	78:1b:1311:G:N2	2.51	0.43
53:Ry:20:ARG:HD2	78:1b:1874:A:H3'	2.00	0.43
56:Uy:53:ALA:O	56:Uy:68:THR:OG1	2.33	0.43
58:Wy:57:LYS:O	58:Wy:60:LYS:N	2.51	0.43
61:Zy:62:VAL:O	61:Zy:65:ARG:N	2.51	0.43
62:ay:75:LEU:HD11	62:ay:134:ALA:HB1	2.00	0.43
68:gy:53:GLY:O	68:gy:54:ILE:HD13	2.18	0.43
76:ob:80:ARG:NH2	78:1b:2770:G:OP2	2.51	0.43
77:pb:60:CYS:O	77:pb:62:LYS:N	2.51	0.43
78:1b:1564:U:H3	78:1b:1575:A:H61	1.65	0.43
78:1b:2495:C:HO2'	78:1b:2496:C:P	2.37	0.43
78:1b:2592:G:O2'	78:1b:2593:A:O5'	2.36	0.43
78:1b:3022:G:H22	78:1b:3031:G:H3'	1.83	0.43
78:1b:3353:G:H3'	78:1b:3354:U:C4'	2.46	0.43
1:a:824:G:H2'	1:a:825:U:O4'	2.18	0.43
1:a:1329:A:H2'	1:a:1330:G:O4'	2.18	0.43
2:b:143:VAL:N	2:b:157:ASP:OD2	2.42	0.43
10:i:185:ILE:HD12	10:i:185:ILE:N	2.33	0.43
21:u:37:VAL:HG11	21:u:100:ILE:HD11	2.00	0.43
25:y:125:VAL:HG12	25:y:126:LYS:HG3	1.99	0.43
28:1:47:ALA:C	28:1:50:VAL:HG12	2.41	0.43
78:Aa:1150:A:H2'	78:Aa:1151:U:O4'	2.18	0.43
78:Aa:2612:U:H2'	78:Aa:2613:U:O4'	2.18	0.43
35:Bb:1:G:O6	40:Ga:262:LYS:NZ	2.51	0.43
37:Da:111:THR:HG22	37:Da:112:ILE:N	2.32	0.43
38:Ea:37:ARG:NH2	38:Ea:188:ILE:HD12	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Ea:46:PHE:O	38:Ea:338:LEU:N	2.43	0.43
39:Fa:10:SER:N	39:Fa:13:GLY:O	2.40	0.43
51:A:167:ARG:C	51:A:168:LEU:HD12	2.43	0.43
55:E:38:ASP:HB2	55:E:64:VAL:CG1	2.48	0.43
57:G:77:ILE:HG22	57:G:78:VAL:O	2.18	0.43
61:K:95:VAL:O	61:K:100:THR:HG21	2.18	0.43
70:T:91:ASN:HA	70:T:94:ILE:HG22	2.00	0.43
71:U:54:LYS:O	71:U:58:THR:HG23	2.18	0.43
1:2b:144:U:C2	1:2b:145:A:C8	3.06	0.43
1:2b:228:G:O6	1:2b:834:G:N3	2.51	0.43
1:2b:845:G:C5	1:2b:846:G:N2	2.86	0.43
1:2b:1082:C:H2'	1:2b:1083:G:O4'	2.17	0.43
1:2b:1515:A:OP2	6:Db:7:LYS:N	2.39	0.43
1:2b:1677:C:H42	1:2b:1724:U:H3	1.66	0.43
6:Db:53:THR:OG1	6:Db:54:ARG:N	2.50	0.43
9:Gb:77:LEU:O	9:Gb:92:ARG:HA	2.17	0.43
9:Gb:98:ARG:NH1	9:Gb:101:ILE:O	2.51	0.43
10:Hb:168:SER:O	10:Hb:172:VAL:HG23	2.17	0.43
11:Ib:76:THR:HG22	11:Ib:108:PRO:HG2	2.00	0.43
15:Mb:67:THR:HG22	15:Mb:68:GLU:HB3	2.00	0.43
18:Qb:58:ASP:OD1	18:Qb:58:ASP:N	2.51	0.43
38:By:106:TRP:CH2	38:By:161:LEU:HD13	2.52	0.43
38:By:250:ALA:HB1	78:1b:2947:G:C2	2.52	0.43
38:By:317:ILE:O	38:By:317:ILE:HG22	2.18	0.43
39:Cy:216:VAL:HG23	39:Cy:217:LYS:N	2.32	0.43
43:Gy:153:ILE:HG22	43:Gy:154:ALA:O	2.18	0.43
55:Ty:10:ARG:NH1	78:1b:2640:A:OP2	2.51	0.43
78:1b:170:G:C2	78:1b:248:U:O2	2.70	0.43
78:1b:293:C:H2'	78:1b:294:U:O4'	2.17	0.43
78:1b:1255:C:N4	78:1b:1263:A:OP1	2.51	0.43
1:a:412:A:N3	1:a:422:G:N2	2.65	0.43
1:a:1205:C:N4	30:4:17:GLY:HA3	2.33	0.43
3:c:112:SER:OG	3:c:113:MET:N	2.51	0.43
8:g:122:ASN:ND2	8:g:126:ASP:O	2.51	0.43
15:n:26:ASP:O	15:n:30:VAL:HG23	2.17	0.43
19:s:30:THR:OG1	33:7:127:ARG:NH2	2.52	0.43
78:Aa:661:G:OP2	78:Aa:661:G:N2	2.51	0.43
78:Aa:661:G:O6	78:Aa:942:U:O2	2.36	0.43
78:Aa:788:C:H2'	78:Aa:789:A:O4'	2.18	0.43
78:Aa:2103:U:H2'	78:Aa:2104:A:H8	1.83	0.43
78:Aa:2400:G:O6	78:Aa:2401:A:N6	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Aa:3215:A:H62	48:Oa:122:VAL:HG13	1.83	0.43
37:Da:33:ASP:OD1	37:Da:33:ASP:N	2.51	0.43
41:Ha:71:VAL:HG12	41:Ha:160:SER:HA	2.00	0.43
49:Pa:153:ASP:OD1	49:Pa:155:VAL:HG12	2.18	0.43
50:Qa:108:ILE:HG23	50:Qa:160:ARG:CD	2.48	0.43
60:J:56:VAL:HG22	60:J:57:LEU:H	1.82	0.43
64:N:73:GLY:N	64:N:76:GLU:OE2	2.46	0.43
1:2b:654:C:C4	1:2b:679:U:O4	2.71	0.43
1:2b:1161:C:H1'	1:2b:1619:C:H42	1.82	0.43
1:2b:1450:U:C2	1:2b:1451:C:C5	3.07	0.43
1:2b:1451:C:OP1	30:db:12:ARG:NH2	2.46	0.43
1:2b:1493:A:HO2'	1:2b:1494:C:P	2.40	0.43
2:Ab:86:VAL:HG12	2:Ab:174:TRP:CD2	2.53	0.43
6:Db:110:LEU:HA	6:Db:177:MET:HE1	2.01	0.43
7:Eb:208:VAL:HG12	7:Eb:220:THR:O	2.17	0.43
11:Ib:107:THR:N	11:Ib:108:PRO:CD	2.81	0.43
16:Nb:87:ASP:OD1	16:Nb:87:ASP:N	2.48	0.43
36:3b:45:C:H2'	36:3b:46:G:O4'	2.18	0.43
40:Dy:79:TYR:N	40:Dy:82:GLU:OE2	2.43	0.43
42:Fy:234:GLU:O	42:Fy:237:ASN:ND2	2.41	0.43
60:Yy:122:LYS:HA	78:1b:185:C:H4'	2.00	0.43
62:ay:82:ILE:HG22	62:ay:83:PRO:O	2.18	0.43
62:ay:123:VAL:HG12	62:ay:124:ILE:N	2.32	0.43
67:fy:2:ALA:N	78:1b:3219:G:N7	2.66	0.43
77:pb:69:TYR:O	77:pb:70:THR:HG23	2.19	0.43
78:1b:267:G:H2'	78:1b:318:A:N7	2.33	0.43
78:1b:846:A:H5''	78:1b:847:A:P	2.57	0.43
78:1b:1593:A:H2'	78:1b:1594:A:C8	2.53	0.43
78:1b:1949:G:N2	78:1b:2097:U:O2	2.44	0.43
78:1b:2761:G:O2'	78:1b:2795:U:O4	2.35	0.43
78:1b:3252:G:H2'	78:1b:3253:G:C1'	2.49	0.43
1:a:26:A:HO2'	1:a:27:U:C5'	2.31	0.43
1:a:685:A:HO2'	1:a:686:C:P	2.40	0.43
1:a:1541:G:H1'	1:a:1570:A:H61	1.83	0.43
3:c:92:GLN:OE1	3:c:97:LEU:HD11	2.18	0.43
7:f:214:LEU:HD13	7:f:244:ILE:HD11	2.00	0.43
8:g:21:THR:O	8:g:21:THR:OG1	2.35	0.43
8:g:97:LEU:HD21	8:g:176:THR:HG22	1.99	0.43
10:i:30:SER:N	10:i:31:SER:HA	2.33	0.43
10:i:161:GLN:N	10:i:161:GLN:OE1	2.50	0.43
33:7:26:SER:OG	33:7:29:GLN:O	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:7:31:ASN:ND2	33:7:47:LEU:O	2.51	0.43
78:Aa:51:A:C4	78:Aa:52:A:C8	3.06	0.43
78:Aa:82:C:H2'	78:Aa:83:U:O4'	2.18	0.43
78:Aa:1426:C:O5'	62:L:4:ARG:NH2	2.51	0.43
78:Aa:1580:A:N1	59:I:33:ARG:NE	2.66	0.43
78:Aa:3028:G:H2'	78:Aa:3029:A:O4'	2.18	0.43
41:Ha:97:ASN:O	41:Ha:97:ASN:ND2	2.52	0.43
45:La:185:ARG:NH1	45:La:186:GLU:OE2	2.52	0.43
47:Na:43:ALA:N	47:Na:51:LEU:HD21	2.33	0.43
47:Na:77:LEU:HA	47:Na:80:VAL:HB	2.01	0.43
71:U:26:SER:O	71:U:26:SER:OG	2.37	0.43
1:2b:537:G:O5'	12:Jb:175:ARG:NH1	2.51	0.43
1:2b:892:A:C6	1:2b:893:U:C4	3.05	0.43
1:2b:1650:U:C2	1:2b:1651:A:C8	3.06	0.43
6:Db:181:VAL:HG12	6:Db:182:LEU:N	2.33	0.43
8:Fb:91:GLU:HG2	8:Fb:95:ASN:OD1	2.18	0.43
11:Ib:97:THR:OG1	11:Ib:98:LYS:O	2.36	0.43
19:Rb:91:LEU:N	19:Rb:91:LEU:HD12	2.34	0.43
19:Rb:100:LEU:HD12	19:Rb:101:ASN:N	2.33	0.43
22:Ub:25:THR:O	22:Ub:26:LEU:HD23	2.18	0.43
24:Wb:93:LEU:HD23	24:Wb:93:LEU:H	1.81	0.43
26:Yb:27:VAL:O	26:Yb:28:LEU:HD23	2.19	0.43
26:Yb:56:SER:N	26:Yb:74:LEU:O	2.50	0.43
33:gb:302:PHE:HD1	33:gb:312:VAL:HG12	1.83	0.43
36:3b:95:G:OP2	71:jb:72:ARG:NH1	2.47	0.43
39:Cy:215:ILE:HG23	39:Cy:216:VAL:N	2.32	0.43
47:Ly:75:PHE:H	47:Ly:97:VAL:HA	1.84	0.43
52:Qy:114:ILE:O	52:Qy:117:ALA:N	2.51	0.43
55:Ty:158:THR:OG1	55:Ty:159:PHE:N	2.48	0.43
60:Yy:33:ALA:N	60:Yy:48:LEU:O	2.39	0.43
64:cy:90:VAL:HG22	64:cy:91:SER:N	2.32	0.43
70:ib:90:MET:O	70:ib:94:ILE:N	2.44	0.43
71:jb:39:TYR:CG	71:jb:40:PRO:HA	2.54	0.43
77:pb:39:CYS:O	77:pb:43:GLY:N	2.45	0.43
78:1b:246:U:H2'	78:1b:247:C:C6	2.54	0.43
78:1b:2720:G:O6	78:1b:2736:A:N1	2.52	0.43
78:1b:2888:U:C5	78:1b:2910:A:C6	3.07	0.43
78:1b:3039:C:H2'	78:1b:3040:A:O4'	2.19	0.43
1:a:24:U:O2'	1:a:367:A:O2'	2.20	0.43
1:a:55:A:H3'	1:a:403:G:H22	1.84	0.43
1:a:247:A:O2'	14:m:37:ASN:O	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:336:G:H21	1:a:338:C:H5'	1.83	0.43
1:a:396:G:N1	1:a:399:A:OP2	2.51	0.43
1:a:1252:C:OP2	32:6:118:ARG:NH2	2.52	0.43
1:a:1320:U:N3	1:a:1323:C:OP1	2.46	0.43
1:a:1684:U:H2'	1:a:1685:G:C8	2.52	0.43
6:e:25:PHE:HB3	6:e:29:LEU:HD12	2.01	0.43
78:Aa:720:A:N3	78:Aa:720:A:H2'	2.34	0.43
78:Aa:838:G:H21	78:Aa:1724:U:H5''	1.84	0.43
78:Aa:2375:G:O2'	78:Aa:2377:G:OP2	2.30	0.43
35:Bb:77:G:N2	35:Bb:102:A:OP2	2.51	0.43
37:Da:112:ILE:HD11	77:aa:79:VAL:CG1	2.48	0.43
38:Ea:81:THR:HG23	38:Ea:81:THR:O	2.18	0.43
48:Oa:15:VAL:N	54:D:150:PHE:O	2.45	0.43
49:Pa:158:HIS:O	49:Pa:161:ALA:N	2.50	0.43
51:A:119:VAL:HG22	51:A:146:ILE:HG12	2.01	0.43
61:K:76:ASN:OD1	61:K:78:ASN:ND2	2.51	0.43
66:P:85:LEU:HD11	66:P:92:TYR:CB	2.48	0.43
1:2b:1215:C:H2'	1:2b:1216:C:O4'	2.18	0.43
1:2b:1533:C:OP2	27:Zb:77:ARG:NH2	2.52	0.43
1:2b:1583:A:H4'	1:2b:1583:A:OP1	2.18	0.43
4:Pb:16:SER:OG	4:Pb:20:VAL:N	2.51	0.43
4:Pb:28:MET:HG3	4:Pb:29:SER:H	1.82	0.43
7:Eb:72:VAL:O	7:Eb:75:LYS:N	2.52	0.43
7:Eb:84:ALA:HB1	7:Eb:101:LEU:HD22	2.00	0.43
7:Eb:126:VAL:HG21	7:Eb:156:VAL:HA	2.01	0.43
8:Fb:90:ILE:O	8:Fb:93:LEU:N	2.52	0.43
27:Zb:82:HIS:O	27:Zb:85:LYS:N	2.51	0.43
30:db:38:ILE:HG22	30:db:39:CYS:N	2.33	0.43
45:Iy:67:ALA:HB1	78:1b:2852:C:O2	2.17	0.43
46:Jy:50:ALA:HB3	46:Jy:62:ASN:N	2.34	0.43
62:ay:133:LEU:HD12	62:ay:136:GLU:OE2	2.18	0.43
67:fy:2:ALA:N	78:1b:3216:G:OP2	2.52	0.43
68:gy:95:ILE:HD11	78:1b:2555:G:C6	2.53	0.43
78:1b:1259:A:N3	78:1b:1280:C:O2'	2.30	0.43
78:1b:1607:U:O2'	78:1b:1608:C:OP1	2.30	0.43
78:1b:2988:C:H2'	78:1b:2989:U:O4'	2.19	0.43
78:1b:3233:C:H2'	78:1b:3234:A:O4'	2.19	0.43
1:a:343:C:H2'	1:a:344:A:O4'	2.18	0.43
1:a:906:A:H61	1:a:1008:G:H1'	1.81	0.43
1:a:956:C:H1'	1:a:1047:G:O2'	2.18	0.43
10:i:87:ASP:OD1	10:i:88:ARG:NH1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:m:141:LYS:HZ3	14:m:143:SER:HG	1.61	0.43
78:Aa:298:U:OP2	70:T:33:ALA:HB2	2.19	0.43
78:Aa:685:G:P	47:Na:35:ARG:HH11	2.42	0.43
78:Aa:1003:A:N1	78:Aa:1049:C:O2'	2.36	0.43
78:Aa:1111:U:HO2'	78:Aa:1112:A:H8	1.66	0.43
78:Aa:1205:A:N6	78:Aa:1300:G:N2	2.66	0.43
78:Aa:1264:G:N2	78:Aa:1277:C:H42	2.16	0.43
78:Aa:1550:C:HO2'	78:Aa:2167:A:N6	2.15	0.43
78:Aa:1585:C:H2'	78:Aa:1586:G:O4'	2.18	0.43
78:Aa:1646:G:H1'	78:Aa:1809:A:H61	1.83	0.43
78:Aa:2185:G:O2'	78:Aa:2314:U:OP1	2.33	0.43
78:Aa:2985:C:H2'	78:Aa:2986:U:O4'	2.18	0.43
36:Ca:39:G:HO2'	36:Ca:40:A:P	2.41	0.43
39:Fa:320:ASN:O	39:Fa:323:VAL:N	2.44	0.43
43:Ja:200:LEU:HD12	43:Ja:200:LEU:C	2.42	0.43
51:A:119:VAL:HG13	51:A:146:ILE:HG12	2.01	0.43
65:O:26:LYS:HA	65:O:64:VAL:HG11	2.00	0.43
65:O:54:GLU:OE2	65:O:54:GLU:N	2.46	0.43
1:2b:332:U:OP2	11:Ib:56:ARG:NH2	2.52	0.43
1:2b:406:U:O4	1:2b:407:A:N6	2.52	0.43
1:2b:585:A:H2'	1:2b:586:G:O4'	2.17	0.43
5:Cb:64:LYS:CA	5:Cb:134:LEU:HD11	2.48	0.43
6:Db:133:GLY:O	6:Db:189:MET:N	2.42	0.43
20:Sb:42:TYR:O	20:Sb:46:VAL:HG23	2.19	0.43
21:Tb:104:VAL:HG12	21:Tb:108:LEU:HD12	2.01	0.43
25:Xb:97:ASP:OD1	25:Xb:97:ASP:N	2.48	0.43
36:3b:59:A:OP1	36:3b:60:U:O2'	2.34	0.43
39:Cy:101:ALA:HB2	78:1b:662:U:O2	2.18	0.43
39:Cy:197:ARG:NH1	78:1b:1381:A:H5''	2.33	0.43
42:Fy:127:LEU:HA	42:Fy:130:ILE:HG12	1.99	0.43
43:Gy:75:ILE:O	43:Gy:76:ALA:HB3	2.18	0.43
49:Ny:87:GLN:NE2	78:1b:2609:A:N3	2.66	0.43
53:Ry:50:ILE:HG22	53:Ry:51:VAL:N	2.33	0.43
61:Zy:29:HIS:N	61:Zy:40:HIS:O	2.44	0.43
62:ay:85:ASP:O	62:ay:89:GLN:NE2	2.43	0.43
68:gy:47:CYS:SG	68:gy:49:SER:OG	2.41	0.43
72:kb:8:ILE:HG22	72:kb:12:LEU:HD23	1.99	0.43
72:kb:11:PHE:O	72:kb:14:LEU:N	2.50	0.43
78:1b:1069:C:N4	78:1b:1090:G:O6	2.52	0.43
78:1b:1220:U:H4'	78:1b:1221:A:H5''	2.01	0.43
78:1b:1703:U:H2'	78:1b:1704:A:H5''	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:1b:1716:U:HO2'	78:1b:1717:U:C5'	2.21	0.43
78:1b:2658:G:N2	78:1b:2713:U:O2	2.51	0.43
78:1b:2745:G:N1	78:1b:2748:A:OP2	2.52	0.43
78:1b:3191:G:C6	78:1b:3202:G:C6	3.07	0.43
78:1b:3349:C:C4	78:1b:3350:C:N4	2.86	0.43
1:a:134:U:OP1	1:a:136:C:N4	2.51	0.43
1:a:390:G:O6	1:a:391:A:N6	2.52	0.43
1:a:644:C:H2'	1:a:645:C:C1'	2.48	0.43
1:a:901:G:OP2	1:a:901:G:N2	2.50	0.43
1:a:1469:A:OP1	21:u:91:TYR:OH	2.16	0.43
1:a:1679:G:H21	1:a:1722:A:H62	1.66	0.43
5:d:157:LYS:NZ	24:x:91:ALA:O	2.39	0.43
6:e:168:ILE:HG22	6:e:189:MET:HA	2.01	0.43
7:f:71:LYS:HG2	7:f:76:VAL:HG22	2.00	0.43
8:g:195:ALA:O	8:g:199:ILE:HD12	2.19	0.43
23:w:49:GLU:OE1	23:w:50:TYR:N	2.51	0.43
78:Aa:111:C:OP2	78:Aa:156:G:N2	2.47	0.43
78:Aa:185:C:C2'	60:J:125:LYS:HZ2	2.29	0.43
78:Aa:501:A:C6	78:Aa:613:G:C6	3.07	0.43
78:Aa:528:U:H2'	78:Aa:529:A:C8	2.54	0.43
78:Aa:827:A:C5'	68:R:15:THR:HG22	2.49	0.43
78:Aa:903:U:C2	78:Aa:904:A:C8	3.07	0.43
78:Aa:2122:G:H2'	78:Aa:2123:G:O4'	2.17	0.43
78:Aa:2201:G:H21	37:Da:224:THR:HG21	1.83	0.43
78:Aa:2561:A:N7	78:Aa:2579:G:N1	2.66	0.43
36:Ca:28:C:H4'	47:Na:26:PHE:CD2	2.54	0.43
45:La:65:LEU:HD23	45:La:159:PHE:HZ	1.80	0.43
49:Pa:36:ILE:HG22	49:Pa:64:VAL:HG23	2.01	0.43
61:K:10:VAL:HG23	61:K:86:THR:HA	2.00	0.43
64:N:18:ILE:HD13	64:N:23:TYR:CD2	2.53	0.43
1:2b:61:A:H8	1:2b:269:G:HO2'	1.65	0.43
1:2b:280:U:O4	58:Wy:111:ALA:N	2.52	0.43
1:2b:1498:G:H5''	21:Tb:72:GLY:HA3	2.00	0.43
1:2b:1501:C:OP2	21:Tb:102:ARG:NH1	2.42	0.43
3:Ba:185:THR:HG22	3:Ba:189:ILE:CD1	2.49	0.43
5:Cb:227:PRO:HA	5:Cb:230:TRP:CG	2.53	0.43
11:Ib:3:ILE:HD12	11:Ib:30:GLY:O	2.18	0.43
22:Ub:25:THR:HG22	22:Ub:90:TYR:HB2	2.00	0.43
39:Cy:202:ARG:NE	78:1b:1384:U:OP2	2.45	0.43
47:Ly:165:SER:C	47:Ly:167:PHE:H	2.27	0.43
48:My:15:VAL:CG2	48:My:65:LEU:HD21	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:cy:76:GLU:O	64:cy:79:THR:OG1	2.27	0.43
77:pb:39:CYS:HB3	77:pb:42:CYS:SG	2.59	0.43
78:1b:845:G:N2	78:1b:849:C:N3	2.67	0.43
78:1b:846:A:H4'	78:1b:847:A:OP1	2.18	0.43
78:1b:1355:A:O2'	78:1b:1356:U:OP2	2.31	0.43
78:1b:1784:G:H2'	78:1b:1785:U:O4'	2.18	0.43
78:1b:1863:G:N2	78:1b:1866:C:OP2	2.45	0.43
78:1b:2144:A:C4	78:1b:2281:A:N6	2.87	0.43
1:a:438:A:O2'	1:a:439:U:O5'	2.33	0.43
1:a:459:G:OP2	26:z:105:ARG:NH1	2.49	0.43
1:a:479:C:O2	1:a:510:G:C2	2.71	0.43
6:e:41:VAL:O	6:e:41:VAL:HG23	2.19	0.43
15:n:73:LYS:HB3	32:6:108:VAL:HG22	2.01	0.43
19:s:53:TYR:CZ	19:s:57:LEU:HD21	2.53	0.43
78:Aa:769:G:OP1	47:Na:175:SER:OG	2.36	0.43
78:Aa:921:A:N6	78:Aa:1846:C:OP2	2.42	0.43
78:Aa:1198:C:H3'	78:Aa:1199:C:H5''	2.01	0.43
78:Aa:1379:G:H2'	78:Aa:1380:G:O4'	2.18	0.43
78:Aa:1661:G:H2'	78:Aa:1662:G:C8	2.53	0.43
78:Aa:2947:G:N3	38:Ea:250:ALA:HB1	2.33	0.43
78:Aa:3157:U:H3'	78:Aa:3158:G:H5''	2.01	0.43
39:Fa:72:ALA:HB3	39:Fa:76:ARG:NH2	2.34	0.43
51:A:57:ALA:HB2	51:A:72:GLN:CB	2.48	0.43
52:B:107:THR:O	52:B:110:ALA:N	2.51	0.43
53:C:171:ASP:O	53:C:175:GLN:NE2	2.49	0.43
74:X:94:SER:N	74:X:103:LEU:O	2.45	0.43
1:2b:229:U:N3	1:2b:237:C:O2	2.51	0.43
1:2b:585:A:OP1	31:eb:15:LYS:NZ	2.49	0.43
1:2b:768:C:O2	12:Jb:143:ILE:HG21	2.17	0.43
1:2b:1791:A:HO2'	1:2b:1792:G:P	2.33	0.43
3:Ba:224:ASP:OD1	3:Ba:227:ALA:N	2.45	0.43
20:Sb:82:PRO:O	20:Sb:83:ALA:HB3	2.19	0.43
20:Sb:139:LYS:O	20:Sb:143:ARG:NH2	2.52	0.43
26:Yb:45:ALA:O	26:Yb:49:LYS:N	2.47	0.43
35:4b:121:U:OP2	40:Dy:265:TYR:OH	2.23	0.43
36:3b:82:U:HO2'	36:3b:83:C:P	2.38	0.43
37:Ay:94:ALA:HB3	37:Ay:102:LEU:HD11	1.99	0.43
37:Ay:116:VAL:O	37:Ay:125:ALA:HB3	2.19	0.43
39:Cy:34:ILE:HG22	39:Cy:35:VAL:N	2.33	0.43
40:Dy:146:LEU:HD11	40:Dy:163:LEU:CD1	2.48	0.43
41:Ey:38:THR:HG22	41:Ey:39:VAL:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:Iy:200:LEU:HD23	45:Iy:201:SER:N	2.34	0.43
48:My:20:VAL:O	48:My:66:THR:OG1	2.37	0.43
49:Ny:112:ASN:OD1	49:Ny:112:ASN:N	2.51	0.43
56:Uy:18:ASP:OD1	56:Uy:19:VAL:N	2.52	0.43
66:ey:111:ARG:O	66:ey:114:ALA:N	2.51	0.43
70:ib:34:SER:C	70:ib:38:LYS:HZ2	2.27	0.43
78:1b:1234:G:C8	78:1b:1235:U:H2'	2.54	0.43
1:a:252:U:O4'	7:f:131:LEU:HD23	2.19	0.43
1:a:780:A:H1'	26:z:8:ARG:HB3	2.00	0.43
1:a:823:G:C6	1:a:850:A:N1	2.86	0.43
1:a:1683:C:N3	1:a:1719:A:N1	2.67	0.43
5:d:37:PRO:HD3	5:d:46:LYS:HD2	2.01	0.43
6:e:135:GLU:HG3	6:e:153:ALA:HB2	1.99	0.43
8:g:25:LEU:H	8:g:25:LEU:HD23	1.83	0.43
15:n:94:ALA:HB1	15:n:118:ALA:HB3	2.00	0.43
21:u:66:TYR:OH	21:u:133:ASP:OD1	2.30	0.43
24:x:44:HIS:NE2	24:x:112:ASP:OD2	2.52	0.43
78:Aa:86:G:H22	78:Aa:98:G:H3'	1.84	0.43
78:Aa:1152:G:N2	78:Aa:1200:A:H61	2.16	0.43
78:Aa:2943:G:H2'	78:Aa:2944:U:O4'	2.18	0.43
78:Aa:3097:C:OP1	38:Ea:349:LYS:NZ	2.36	0.43
78:Aa:3213:A:H2'	78:Aa:3214:U:O4'	2.19	0.43
38:Ea:50:LYS:NZ	38:Ea:328:ILE:O	2.52	0.43
39:Fa:129:THR:HG22	39:Fa:246:ARG:N	2.34	0.43
45:La:160:PRO:O	45:La:163:GLN:NE2	2.52	0.43
48:Oa:120:VAL:HG23	50:Qa:197:LEU:HD13	2.00	0.43
48:Oa:131:VAL:HG13	50:Qa:181:ALA:O	2.19	0.43
54:D:16:THR:OG1	54:D:19:VAL:N	2.39	0.43
57:G:63:LYS:O	57:G:70:ARG:NE	2.50	0.43
1:2b:139:C:H42	1:2b:175:G:H21	1.66	0.43
1:2b:699:U:HO2'	1:2b:700:C:C5'	2.26	0.43
1:2b:775:G:N2	1:2b:786:C:N3	2.66	0.43
1:2b:1401:A:OP1	19:Rb:56:HIS:NE2	2.36	0.43
1:2b:1414:U:O2'	1:2b:1415:U:P	2.77	0.43
3:Ba:3:VAL:HG23	17:Ob:48:VAL:O	2.19	0.43
4:Pb:50:THR:HG23	4:Pb:52:LYS:N	2.33	0.43
5:Cb:60:SER:OG	23:Vb:25:LYS:O	2.36	0.43
5:Cb:83:ILE:HG22	5:Cb:84:LYS:N	2.34	0.43
16:Nb:4:MET:HG3	16:Nb:5:HIS:N	2.34	0.43
24:Wb:27:ILE:HG22	24:Wb:28:ARG:N	2.34	0.43
31:eb:49:LEU:HD13	31:eb:58:PRO:HD3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:gb:300:THR:HG23	33:gb:314:GLN:HB3	2.00	0.43
38:By:229:VAL:O	38:By:229:VAL:HG22	2.18	0.43
38:By:312:VAL:HG12	38:By:313:HIS:CD2	2.53	0.43
41:Ey:24:ALA:N	78:1b:607:A:OP1	2.40	0.43
46:Jy:69:VAL:HG22	46:Jy:70:THR:N	2.34	0.43
48:My:4:ASP:N	48:My:4:ASP:OD1	2.52	0.43
49:Ny:133:ILE:N	49:Ny:133:ILE:HD12	2.33	0.43
53:Ry:105:LEU:O	53:Ry:108:LYS:N	2.52	0.43
53:Ry:115:ILE:HG12	53:Ry:116:ASP:N	2.34	0.43
54:Sy:13:ARG:NH2	54:Sy:50:LYS:O	2.52	0.43
62:ay:77:LYS:O	62:ay:79:TRP:N	2.51	0.43
68:gy:22:VAL:HG12	68:gy:23:VAL:N	2.34	0.43
68:gy:44:CYS:N	68:gy:49:SER:O	2.52	0.43
78:1b:543:C:H3'	78:1b:544:C:C6	2.53	0.43
78:1b:1232:C:C4	78:1b:1261:G:C2	3.06	0.43
78:1b:2500:A:HO2'	78:1b:2501:U:P	2.37	0.43
78:1b:2656:A:C8	78:1b:2658:G:C8	3.06	0.43
78:1b:2772:C:H4'	78:1b:2773:C:H5'	2.01	0.43
78:1b:2837:A:H2'	78:1b:2845:A:C6	2.53	0.43
1:a:1285:U:HO2'	1:a:1286:U:P	2.41	0.43
2:b:64:ILE:HG21	2:b:181:VAL:HG11	1.99	0.43
3:c:210:ILE:HD12	3:c:210:ILE:N	2.33	0.43
5:d:167:VAL:CG2	5:d:213:ALA:HB3	2.48	0.43
9:h:65:GLN:O	9:h:67:VAL:HG13	2.19	0.43
9:h:79:LYS:O	9:h:81:VAL:HG23	2.19	0.43
15:n:36:LEU:HD23	15:n:41:LEU:HD12	1.99	0.43
4:q:69:GLU:N	4:q:69:GLU:OE2	2.52	0.43
22:v:28:SER:HB2	22:v:112:VAL:HG13	2.01	0.43
24:x:41:MET:N	24:x:41:MET:HE2	2.34	0.43
26:z:83:LYS:HD2	26:z:91:LEU:HD22	2.01	0.43
28:1:81:ALA:HB3	28:1:83:ILE:HG12	2.00	0.43
33:7:241:PHE:N	33:7:255:ALA:O	2.52	0.43
78:Aa:606:C:N3	78:Aa:608:A:C6	2.86	0.43
78:Aa:826:G:N3	78:Aa:1589:A:N1	2.66	0.43
78:Aa:1463:U:C2	78:Aa:1467:A:N6	2.87	0.43
78:Aa:1695:U:O2'	78:Aa:1696:A:OP2	2.37	0.43
78:Aa:2147:A:OP2	37:Da:200:ARG:NH1	2.43	0.43
78:Aa:2361:A:C6	78:Aa:2362:C:N4	2.87	0.43
78:Aa:3190:C:OP1	50:Qa:172:ARG:NH1	2.42	0.43
38:Ea:53:MET:HG2	38:Ea:77:THR:HG22	2.01	0.43
39:Fa:58:HIS:HA	39:Fa:90:PHE:HE1	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Fa:154:THR:HG23	39:Fa:157:GLU:CD	2.43	0.43
44:Ka:47:LYS:NZ	48:Oa:5:SER:OG	2.52	0.43
46:Ma:35:LYS:O	46:Ma:39:GLN:NE2	2.52	0.43
66:P:4:LEU:HD12	66:P:4:LEU:N	2.34	0.43
70:T:58:ILE:HG23	70:T:90:MET:CE	2.49	0.43
1:2b:1275:A:C6	1:2b:1438:G:C5	3.07	0.43
1:2b:1561:U:C2	1:2b:1562:G:C8	3.07	0.43
1:2b:1582:U:O2	1:2b:1614:A:C6	2.72	0.43
2:Ab:45:VAL:HG12	2:Ab:46:HIS:N	2.33	0.43
8:Fb:31:GLU:N	8:Fb:32:GLU:OE1	2.52	0.43
28:ab:81:ALA:HB3	28:ab:83:ILE:HG13	2.00	0.43
32:fb:132:LEU:HD23	32:fb:141:CYS:HA	2.00	0.43
40:Dy:125:VAL:HG22	40:Dy:126:GLU:N	2.32	0.43
44:Hy:52:LEU:HD12	44:Hy:53:ILE:H	1.83	0.43
49:Ny:71:ARG:N	49:Ny:92:LEU:O	2.44	0.43
51:Py:17:ALA:CB	51:Py:98:ALA:HB2	2.49	0.43
64:cy:43:ILE:HD12	64:cy:90:VAL:HG11	2.00	0.43
67:fy:41:ALA:O	67:fy:44:TYR:N	2.49	0.43
70:ib:31:GLY:O	78:1b:297:G:O2'	2.20	0.43
77:pb:39:CYS:SG	77:pb:42:CYS:SG	3.01	0.43
77:pb:42:CYS:SG	77:pb:60:CYS:CB	3.07	0.43
78:1b:708:G:N2	78:1b:712:G:C5	2.87	0.43
78:1b:808:A:O2'	78:1b:2412:G:O2'	2.37	0.43
78:1b:2836:C:H2'	78:1b:2837:A:O4'	2.19	0.43
78:1b:3321:C:H2'	78:1b:3322:A:O4'	2.19	0.43
78:1b:3327:G:H2'	78:1b:3328:G:O4'	2.19	0.43
2:b:62:ARG:C	2:b:65:ALA:O	2.60	0.43
6:e:164:VAL:HG22	6:e:168:ILE:HD11	2.01	0.43
8:g:77:TYR:O	8:g:84:LYS:NZ	2.41	0.43
22:v:97:VAL:HG23	22:v:98:GLN:N	2.33	0.43
29:2:65:THR:N	29:2:72:LYS:O	2.45	0.43
29:2:73:LEU:HD12	29:2:74:SER:O	2.19	0.43
78:Aa:607:A:OP1	41:Ha:24:ALA:N	2.49	0.43
78:Aa:1472:U:O3'	53:C:24:LEU:HD12	2.18	0.43
78:Aa:2238:G:N1	78:Aa:2239:G:C6	2.87	0.43
78:Aa:2773:C:H2'	78:Aa:2774:C:C6	2.53	0.43
78:Aa:2858:U:O4'	78:Aa:2887:A:N6	2.52	0.43
78:Aa:2885:C:N4	78:Aa:2886:U:O4	2.52	0.43
39:Fa:139:GLY:O	39:Fa:141:ARG:NH1	2.51	0.43
39:Fa:206:LEU:HB2	39:Fa:246:ARG:HE	1.83	0.43
41:Ha:170:LYS:H	41:Ha:174:LEU:HD21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:C:4:LEU:HD13	53:C:32:ILE:HG21	2.01	0.43
61:K:33:SER:OG	61:K:34:LYS:N	2.51	0.43
76:Z:16:THR:OG1	76:Z:17:CYS:N	2.51	0.43
80:ba:11:TYR:OH	80:ba:59:VAL:HG22	2.19	0.43
1:2b:177:U:HO2'	1:2b:178:U:P	2.41	0.42
1:2b:392:G:OP1	11:Ib:24:LYS:NZ	2.45	0.42
1:2b:411:C:H2'	1:2b:412:A:O4'	2.19	0.42
1:2b:567:A:OP2	25:Xb:68:ILE:N	2.42	0.42
1:2b:837:G:N1	1:2b:838:G:C6	2.87	0.42
2:Ab:22:THR:O	2:Ab:48:ILE:HD12	2.19	0.42
2:Ab:86:VAL:HA	2:Ab:89:PHE:HB3	2.01	0.42
7:Eb:178:GLY:N	7:Eb:195:ILE:O	2.48	0.42
7:Eb:257:ALA:HB1	78:Aa:2539:C:P	2.59	0.42
13:Kb:2:LEU:HD12	13:Kb:3:MET:N	2.33	0.42
18:Qb:35:PRO:HD2	18:Qb:38:LEU:HD12	2.01	0.42
21:Tb:113:ILE:HG22	21:Tb:114:VAL:HG23	2.01	0.42
33:gb:72:THR:O	33:gb:80:ALA:HB1	2.19	0.42
33:gb:210:LEU:HD12	33:gb:223:TRP:C	2.44	0.42
36:3b:101:U:H5'	59:Xy:89:LYS:NZ	2.34	0.42
38:By:277:SER:OG	38:By:280:HIS:NE2	2.52	0.42
39:Cy:280:ILE:HG22	52:Qy:104:LEU:C	2.44	0.42
39:Cy:330:TYR:HA	39:Cy:333:VAL:HG12	2.01	0.42
47:Ly:60:ALA:HB1	47:Ly:61:PRO:CD	2.49	0.42
49:Ny:97:SER:OG	49:Ny:98:LEU:N	2.52	0.42
59:Xy:49:LYS:O	59:Xy:50:ALA:HB3	2.18	0.42
61:Zy:86:THR:HG22	61:Zy:87:LEU:N	2.33	0.42
69:hb:102:GLU:OE1	69:hb:106:LYS:NZ	2.38	0.42
72:kb:53:THR:HG22	72:kb:54:LEU:N	2.33	0.42
76:ob:57:VAL:HG13	76:ob:59:HIS:NE2	2.34	0.42
76:ob:75:VAL:HG23	76:ob:76:LYS:HD3	2.01	0.42
78:1b:42:C:O2'	78:1b:43:A:H5'	2.19	0.42
78:1b:3158:G:H22	78:1b:3292:A:H2	1.67	0.42
78:1b:3349:C:H3'	78:1b:3350:C:C6	2.54	0.42
1:a:191:C:H41	11:j:137:LYS:HD3	1.84	0.42
1:a:237:C:HO2'	1:a:238:U:H5	1.62	0.42
1:a:1770:U:O4'	1:a:1794:A:N6	2.26	0.42
2:b:35:PRO:O	2:b:52:LYS:NZ	2.43	0.42
2:b:38:PHE:CB	19:s:109:LEU:HD12	2.48	0.42
3:c:32:ILE:HD11	3:c:46:THR:HB	2.01	0.42
3:c:114:VAL:HG13	3:c:120:LEU:HD12	2.01	0.42
17:p:17:ALA:HB2	17:p:79:VAL:HG11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:r:18:ALA:HB2	18:r:69:VAL:HG12	2.01	0.42
78:Aa:975:C:H5'	52:B:54:LEU:HD22	2.01	0.42
78:Aa:1317:A:O2'	78:Aa:1318:A:H3'	2.18	0.42
78:Aa:1643:A:O2'	78:Aa:1644:C:O4'	2.33	0.42
78:Aa:2939:G:H2'	78:Aa:2940:A:O4'	2.18	0.42
35:Bb:40:C:O2	46:Ma:72:ARG:NH2	2.49	0.42
37:Da:3:ARG:H	37:Da:207:VAL:HG22	1.83	0.42
46:Ma:14:ILE:HD13	46:Ma:77:GLU:OE2	2.18	0.42
50:Qa:12:LYS:O	50:Qa:14:HIS:ND1	2.48	0.42
55:E:41:ASP:N	55:E:97:LYS:O	2.41	0.42
58:H:46:PRO:HB2	58:H:54:LEU:HD23	2.00	0.42
1:2b:117:U:H2'	1:2b:118:U:O4'	2.19	0.42
2:Ab:88:LYS:NZ	19:Rb:82:ASP:OD1	2.53	0.42
3:Ba:46:THR:C	3:Ba:47:LEU:HD12	2.44	0.42
7:Eb:257:ALA:HB3	78:Aa:2539:C:H2'	2.00	0.42
8:Fb:51:VAL:O	8:Fb:51:VAL:HG12	2.20	0.42
15:Mb:62:LEU:HD21	15:Mb:72:ILE:HG12	2.01	0.42
20:Sb:26:ILE:HG13	20:Sb:31:ALA:HB2	2.00	0.42
22:Ub:26:LEU:HD22	22:Ub:114:VAL:HG22	2.01	0.42
24:Wb:47:ILE:HG13	24:Wb:48:GLY:N	2.34	0.42
26:Yb:55:VAL:HG22	26:Yb:56:SER:H	1.83	0.42
29:bb:33:LEU:HD22	29:bb:79:PHE:HB2	2.01	0.42
38:By:207:SER:OG	38:By:208:VAL:HG23	2.18	0.42
39:Cy:323:VAL:HG23	39:Cy:324:LEU:N	2.35	0.42
43:Gy:64:ILE:O	43:Gy:67:ILE:HG12	2.19	0.42
47:Ly:186:ARG:NH2	78:1b:767:U:O3'	2.52	0.42
52:Qy:107:THR:O	52:Qy:110:ALA:N	2.42	0.42
56:Uy:103:TYR:OH	78:1b:1677:G:OP2	2.37	0.42
76:ob:92:GLU:O	76:ob:93:LEU:HD22	2.19	0.42
78:1b:1137:C:H2'	78:1b:1138:U:O4'	2.19	0.42
78:1b:3332:U:C4	78:1b:3371:G:O6	2.72	0.42
1:a:609:U:O2	25:y:19:ARG:NE	2.53	0.42
1:a:767:U:H2'	12:k:141:VAL:HG23	2.02	0.42
1:a:825:U:H2'	1:a:826:U:O4'	2.19	0.42
1:a:871:G:H2'	1:a:872:G:C8	2.54	0.42
1:a:1413:U:O2'	1:a:1416:G:OP1	2.35	0.42
1:a:1741:U:H2'	1:a:1742:U:O4'	2.20	0.42
2:b:17:LEU:HD23	2:b:172:LEU:HD22	2.02	0.42
9:h:56:ASN:ND2	9:h:60:GLY:O	2.50	0.42
10:i:46:ILE:HG23	10:i:60:ILE:HG12	2.01	0.42
14:m:129:ARG:O	14:m:130:PRO:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:n:91:VAL:HG22	15:n:92:ALA:N	2.34	0.42
16:o:47:PRO:HA	16:o:71:ILE:HG21	2.01	0.42
33:7:161:LYS:O	33:7:162:ALA:HB3	2.19	0.42
78:Aa:1121:U:C4	78:Aa:1122:U:C4	3.07	0.42
78:Aa:1717:U:O2'	78:Aa:1718:G:O4'	2.32	0.42
78:Aa:3057:U:H5'	78:Aa:3086:A:H61	1.84	0.42
78:Aa:3312:U:H2'	78:Aa:3313:U:H5''	1.99	0.42
38:Ea:214:MET:CG	38:Ea:350:ALA:HB1	2.48	0.42
41:Ha:13:GLU:OE2	66:P:90:LYS:N	2.49	0.42
41:Ha:38:THR:HG22	41:Ha:39:VAL:N	2.34	0.42
48:Oa:123:LEU:HB2	50:Qa:194:LEU:HD21	2.01	0.42
51:A:168:LEU:O	51:A:173:ARG:NH1	2.52	0.42
61:K:26:VAL:HG21	61:K:96:VAL:HG11	2.01	0.42
65:O:49:VAL:CG1	65:O:51:LEU:HD21	2.49	0.42
1:2b:630:A:C2'	1:2b:631:G:H5'	2.50	0.42
1:2b:1021:C:H2'	1:2b:1022:C:O4'	2.19	0.42
1:2b:1552:U:C2	1:2b:1556:A:N6	2.86	0.42
1:2b:1689:A:H2'	1:2b:1690:G:C8	2.54	0.42
8:Fb:189:THR:O	8:Fb:193:THR:HG23	2.19	0.42
8:Fb:215:ASP:OD1	8:Fb:216:GLU:N	2.52	0.42
20:Sb:91:ASP:OD1	20:Sb:92:ILE:N	2.52	0.42
22:Ub:65:ILE:HG21	30:db:43:PHE:HE2	1.84	0.42
25:Xb:100:ASP:O	25:Xb:102:VAL:HG13	2.19	0.42
35:4b:7:G:H4'	40:Dy:33:ARG:HH12	1.83	0.42
37:Ay:3:ARG:NH1	78:1b:910:G:O6	2.50	0.42
38:By:220:VAL:HA	38:By:274:SER:HA	2.02	0.42
40:Dy:118:THR:HG23	40:Dy:119:TYR:CD2	2.54	0.42
43:Gy:248:LYS:NZ	78:1b:2529:A:OP1	2.48	0.42
45:Iy:190:VAL:CG1	45:Iy:197:VAL:HG21	2.49	0.42
50:Oy:175[A]:THR:HG23	50:Oy:176[A]:LYS:N	2.34	0.42
50:Oy:182[A]:ASN:O	50:Oy:186[A]:ALA:N	2.52	0.42
78:1b:559:A:N6	78:1b:560:G:N3	2.67	0.42
78:1b:1703:U:N3	78:1b:1740:U:O2	2.53	0.42
78:1b:1816:A:O2'	78:1b:1817:G:OP1	2.25	0.42
78:1b:2785:A:H2'	78:1b:2786:G:O4'	2.19	0.42
78:1b:3319:U:HO2'	78:1b:3320:A:P	2.39	0.42
1:a:74:U:N3	58:H:116:LYS:CE	2.83	0.42
1:a:1665:U:O4	1:a:1736:G:O6	2.36	0.42
3:c:34:ALA:N	3:c:41:ARG:O	2.52	0.42
9:h:76:LEU:HD22	9:h:94:ARG:NE	2.32	0.42
10:i:49:ILE:HG21	10:i:172:VAL:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:m:69:LYS:O	14:m:127:GLN:N	2.49	0.42
15:n:98:GLY:O	15:n:101:ALA:C	2.62	0.42
4:q:110:GLU:HB3	20:t:119:ILE:HD13	2.01	0.42
19:s:93:LEU:HD13	19:s:98:GLY:C	2.45	0.42
21:u:4:VAL:HG11	21:u:137:ALA:N	2.34	0.42
22:v:51:VAL:HG23	22:v:52:LYS:N	2.35	0.42
34:3:10:ALA:HB3	34:3:56:LEU:HD11	2.00	0.42
33:7:89:LEU:HD11	33:7:124:SER:HB3	2.01	0.42
33:7:182:ASN:N	33:7:187:GLN:O	2.49	0.42
78:Aa:151:A:HO2'	78:Aa:152:U:P	2.42	0.42
78:Aa:559:A:N6	78:Aa:560:G:N3	2.67	0.42
78:Aa:676:G:O2'	78:Aa:786:A:N1	2.47	0.42
78:Aa:1377:G:C2	78:Aa:1378:U:C5	3.07	0.42
78:Aa:1423:C:C2	78:Aa:1424:C:C5	3.07	0.42
78:Aa:1668:G:H2'	78:Aa:1669:C:O4'	2.20	0.42
78:Aa:2771:U:O4	78:Aa:2787:G:O6	2.37	0.42
78:Aa:3138:U:OP1	38:Ea:276:THR:OG1	2.22	0.42
39:Fa:304:GLN:O	39:Fa:305:ALA:HB3	2.20	0.42
40:Ga:286:VAL:HG12	40:Ga:290:ILE:CD1	2.49	0.42
49:Pa:43:THR:HG22	49:Pa:43:THR:O	2.20	0.42
50:Qa:6:VAL:HG12	50:Qa:7:VAL:N	2.34	0.42
1:2b:579:A:H4'	1:2b:580:A:OP2	2.19	0.42
3:Ba:215:VAL:O	3:Ba:215:VAL:HG13	2.20	0.42
7:Eb:93:ASP:OD1	7:Eb:94:ALA:N	2.51	0.42
14:Lb:47:THR:HG21	14:Lb:114:ALA:HA	2.01	0.42
15:Mb:66:VAL:O	15:Mb:67:THR:OG1	2.35	0.42
16:Nb:65:VAL:HG23	16:Nb:66:ILE:N	2.34	0.42
35:4b:89:G:N2	35:4b:93:C:C4	2.87	0.42
36:3b:52:A:C5	73:lb:23:LEU:HD21	2.54	0.42
36:3b:143:U:OP1	49:Ny:38:ARG:NH2	2.52	0.42
40:Dy:204:VAL:HB	40:Dy:236:LEU:HD21	2.01	0.42
45:Iy:15:LYS:NZ	78:1b:1125:U:P	2.92	0.42
55:Ty:124:VAL:O	55:Ty:124:VAL:HG12	2.20	0.42
56:Uy:20:SER:HA	56:Uy:23:THR:HG22	2.00	0.42
76:ob:80:ARG:HG2	78:1b:2769:A:H4'	2.01	0.42
78:1b:493:U:O2'	78:1b:494:G:O4'	2.36	0.42
78:1b:760:G:H1'	78:1b:771:A:N6	2.34	0.42
78:1b:1070:U:H2'	78:1b:1071:U:O4'	2.20	0.42
78:1b:1177:G:H1'	78:1b:1178:G:N7	2.34	0.42
78:1b:1348:U:OP1	78:1b:1348:U:H4'	2.20	0.42
78:1b:3228:C:H4'	78:1b:3229:G:O5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1058:U:O4	1:a:1061:A:N6	2.52	0.42
1:a:1788:G:OP2	17:p:132:ARG:NH1	2.46	0.42
2:b:9:LEU:HD21	19:s:115:LEU:HG	2.01	0.42
3:c:68:VAL:HG21	3:c:73:LEU:HD21	2.01	0.42
3:c:104:ASP:OD1	3:c:105:PHE:N	2.44	0.42
5:d:76:LEU:HD21	5:d:105:GLY:N	2.35	0.42
7:f:31:PRO:HA	7:f:81:THR:HB	2.02	0.42
8:g:90:ILE:O	8:g:94:THR:HG23	2.20	0.42
12:k:139:GLN:NE2	12:k:140:ILE:O	2.44	0.42
28:l:43:ASN:ND2	28:l:46:GLU:OE1	2.46	0.42
34:3:17:GLY:C	34:3:26:THR:HG23	2.44	0.42
33:7:177:MET:HE1	33:7:191:ASP:HB3	2.01	0.42
78:Aa:72:C:N4	78:Aa:74:G:O6	2.53	0.42
78:Aa:646:A:N6	78:Aa:2371:G:H21	2.16	0.42
78:Aa:1684:U:P	56:F:86:LYS:HZ3	2.38	0.42
78:Aa:1764:U:H3'	78:Aa:1765:U:H5''	2.02	0.42
78:Aa:2182:A:P	37:Da:193:ARG:HH21	2.42	0.42
78:Aa:2233:A:O4'	78:Aa:2428:U:O2'	2.38	0.42
78:Aa:2750:U:H2'	78:Aa:2751:G:O4'	2.20	0.42
78:Aa:2947:G:C4	38:Ea:250:ALA:HB1	2.54	0.42
35:Bb:113:C:H2'	35:Bb:114:U:O4'	2.20	0.42
38:Ea:80:ASP:OD1	38:Ea:81:THR:N	2.51	0.42
39:Fa:131:VAL:HG12	39:Fa:132:ALA:N	2.34	0.42
40:Ga:41:LYS:O	55:E:67:VAL:HG11	2.20	0.42
43:Ja:244:ALA:C	43:Ja:248:LYS:HZ3	2.27	0.42
46:Ma:17:LEU:HD21	46:Ma:19:LEU:HD21	2.01	0.42
52:B:175:ALA:HB3	62:L:53:PHE:O	2.19	0.42
55:E:25:VAL:HG11	55:E:94:GLU:CG	2.50	0.42
62:L:84:GLU:HA	62:L:87:ARG:HB2	2.00	0.42
62:L:111:LYS:HE2	62:L:113:LEU:HD21	2.02	0.42
1:2b:252:U:C2	1:2b:253:A:C8	3.08	0.42
1:2b:405:C:O2'	9:Gb:92:ARG:O	2.37	0.42
1:2b:871:G:H21	29:bb:68:GLY:HA2	1.85	0.42
1:2b:1144:U:H2'	1:2b:1145:U:O2	2.19	0.42
1:2b:1175:U:H2'	1:2b:1176:G:H8	1.84	0.42
1:2b:1199:G:H21	1:2b:1595:U:H4'	1.84	0.42
1:2b:1240:U:H2'	1:2b:1241:G:H3'	2.02	0.42
1:2b:1332:C:C2	1:2b:1333:C:C5	3.08	0.42
5:Cb:65:GLU:HB2	5:Cb:68:ILE:HD12	2.00	0.42
5:Cb:95:ARG:NH1	5:Cb:97:ARG:HD2	2.35	0.42
6:Db:208:ILE:HD12	19:Rb:19:ARG:CZ	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Eb:79:ASP:OD1	7:Eb:80:THR:N	2.50	0.42
8:Fb:197:GLU:OE1	8:Fb:209:TYR:N	2.53	0.42
24:Wb:38:LEU:O	24:Wb:42:GLN:N	2.51	0.42
28:ab:88:SER:HG	28:ab:91:ASP:CG	2.23	0.42
32:fb:147:VAL:HG13	32:fb:147:VAL:O	2.20	0.42
33:gb:93:ASP:OD1	33:gb:95:ALA:N	2.44	0.42
35:4b:52:G:O2'	35:4b:53:U:OP1	2.37	0.42
44:Hy:182:SER:OG	44:Hy:183:HIS:N	2.53	0.42
47:Ly:183:ARG:NH2	78:1b:768:C:O4'	2.52	0.42
48:My:13:ARG:NH2	78:1b:3206:C:N3	2.58	0.42
49:Ny:174:ILE:O	49:Ny:174:ILE:HG22	2.18	0.42
71:jb:56:ARG:NH1	78:1b:363:G:OP2	2.44	0.42
78:1b:1544:G:H2'	78:1b:1545:A:O4'	2.20	0.42
78:1b:2714:G:C8	78:1b:2716:U:C5	3.07	0.42
78:1b:3164:C:O2'	78:1b:3165:A:O5'	2.36	0.42
78:1b:3189:G:N1	78:1b:3204:C:N3	2.68	0.42
1:a:28:A:H2'	1:a:29:U:O4'	2.19	0.42
1:a:341:A:C6	1:a:342:C:N4	2.87	0.42
1:a:483:A:C2	1:a:505:A:H1'	2.54	0.42
1:a:1584:G:N2	1:a:1611:A:O5'	2.53	0.42
1:a:1733:C:H2'	1:a:1734:U:C6	2.55	0.42
1:a:1782:A:H3'	1:a:1783:C:C5'	2.49	0.42
2:b:88:LYS:NZ	19:s:82:ASP:O	2.51	0.42
5:d:109:GLY:N	5:d:191:ALA:O	2.51	0.42
6:e:50:ILE:HG22	6:e:51:ARG:N	2.34	0.42
6:e:94:ARG:HE	6:e:125:TYR:HH	1.61	0.42
6:e:138:VAL:HG22	6:e:184:ILE:CD1	2.50	0.42
17:p:14:PHE:CE1	17:p:78:ALA:HB1	2.55	0.42
22:v:25:THR:O	22:v:26:LEU:HD23	2.19	0.42
23:w:13:VAL:HG12	23:w:14:PRO:O	2.20	0.42
33:7:132:LYS:CG	33:7:143:THR:HG23	2.49	0.42
78:Aa:107:A:H2'	78:Aa:108:A:C5'	2.49	0.42
78:Aa:915:A:H2'	78:Aa:916:G:H4'	2.02	0.42
78:Aa:2366:C:O5'	38:Ea:259:HIS:NE2	2.45	0.42
78:Aa:2703:A:N6	40:Ga:150:LEU:HD11	2.35	0.42
40:Ga:68:THR:HG22	40:Ga:69:ILE:N	2.34	0.42
40:Ga:68:THR:HG22	40:Ga:69:ILE:H	1.85	0.42
41:Ha:42:LEU:HG	41:Ha:52:VAL:HG21	2.02	0.42
51:A:114:VAL:HG13	51:A:114:VAL:O	2.18	0.42
1:2b:260:U:O2	11:Ib:41:LYS:NZ	2.35	0.42
1:2b:1327:C:C2	1:2b:1328:G:C8	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:1410:A:H5'	18:Qb:118:ILE:HD11	2.02	0.42
6:Db:109:LEU:CD2	6:Db:115:ILE:HD13	2.50	0.42
18:Qb:113:ASP:HB3	18:Qb:116:LEU:CD1	2.50	0.42
25:Xb:47:SER:HG	25:Xb:48:HIS:CG	2.25	0.42
25:Xb:59:ILE:HG22	25:Xb:60:GLU:O	2.20	0.42
37:Ay:70:ARG:CZ	78:1b:1650:G:O3'	2.67	0.42
38:By:215:ILE:O	38:By:279:ASN:N	2.52	0.42
41:Ey:98:VAL:N	41:Ey:99:GLU:OE1	2.53	0.42
42:Fy:178:ILE:HG22	42:Fy:179:LEU:N	2.34	0.42
44:Hy:166:ARG:HH22	78:1b:3108:G:H1'	1.84	0.42
47:Ly:118:GLU:O	47:Ly:121:SER:OG	2.35	0.42
67:fy:59:VAL:HG23	67:fy:60:ARG:N	2.35	0.42
78:1b:382:U:H2'	78:1b:383:G:O4'	2.19	0.42
78:1b:442:G:O6	78:1b:443:G:N2	2.51	0.42
78:1b:740:G:H2'	78:1b:741:U:O4'	2.20	0.42
78:1b:824:C:O2'	78:1b:1534:A:N3	2.42	0.42
78:1b:1097:G:O2'	78:1b:1098:A:OP2	2.35	0.42
78:1b:1529:A:OP2	78:1b:1592:G:N2	2.53	0.42
78:1b:1564:U:C2	78:1b:1576:G:C2	3.08	0.42
78:1b:3113:A:C2	78:1b:3122:A:C5	3.08	0.42
78:1b:3349:C:H2'	78:1b:3350:C:C6	2.55	0.42
1:a:221:A:OP2	1:a:832:U:O2'	2.19	0.42
1:a:237:C:H5''	1:a:238:U:H5'	2.01	0.42
1:a:435:C:H2'	1:a:436:A:O4'	2.20	0.42
1:a:715:U:N3	1:a:723:G:N1	2.67	0.42
1:a:1229:G:O2'	1:a:1255:G:N2	2.51	0.42
1:a:1650:U:H2'	1:a:1651:A:O4'	2.20	0.42
10:i:74:GLN:HG2	10:i:131:PHE:CD2	2.54	0.42
19:s:41:ILE:HG22	19:s:43:SER:H	1.84	0.42
24:x:64:GLN:C	24:x:65:LEU:HD22	2.44	0.42
25:y:104:LEU:HD23	25:y:124:VAL:HA	2.02	0.42
28:1:87:ARG:NE	28:1:91:ASP:O	2.50	0.42
34:3:12:VAL:HG13	34:3:28:VAL:CG2	2.49	0.42
31:5:35:TYR:CD2	31:5:39:LEU:HD11	2.53	0.42
78:Aa:27:C:O3'	49:Pa:192:LYS:NZ	2.53	0.42
78:Aa:1222:G:OP1	80:ba:58:MET:HE2	2.19	0.42
78:Aa:1397:C:N4	78:Aa:1414:G:O6	2.52	0.42
78:Aa:1841:A:C6	78:Aa:1848:G:N2	2.88	0.42
78:Aa:1895:A:O2'	78:Aa:3053:G:O2'	2.06	0.42
78:Aa:2183:A:O2'	37:Da:236:GLY:N	2.46	0.42
78:Aa:2743:A:H2'	78:Aa:2744:U:O4'	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Fa:74:ILE:O	39:Fa:76:ARG:NH1	2.53	0.42
48:Oa:20:VAL:C	48:Oa:21:VAL:HG23	2.45	0.42
48:Oa:123:LEU:HD21	50:Qa:193:GLN:OE1	2.19	0.42
48:Oa:135:LEU:HD13	50:Qa:181:ALA:HB2	2.01	0.42
51:A:114:VAL:HA	51:A:150:VAL:HG12	2.01	0.42
58:H:4:GLU:O	58:H:12:LYS:CA	2.61	0.42
62:L:104:THR:CG2	62:L:127:ALA:HB2	2.50	0.42
68:R:12:PRO:HG2	68:R:13:TYR:CD2	2.54	0.42
68:R:61:GLN:O	68:R:64:THR:OG1	2.32	0.42
1:2b:77:U:O4'	9:Gb:159:ARG:NH1	2.50	0.42
1:2b:1108:G:H4'	1:2b:1109:G:H5''	2.00	0.42
1:2b:1573:A:H4'	1:2b:1574:G:O4'	2.19	0.42
9:Gb:121:LEU:O	9:Gb:125:THR:N	2.46	0.42
13:Kb:71:GLU:OE1	13:Kb:71:GLU:N	2.44	0.42
16:Nb:29:SER:OG	16:Nb:31:GLU:OE2	2.37	0.42
21:Tb:18:TYR:CE1	21:Tb:22:LEU:HD11	2.55	0.42
22:Ub:40:ASN:HA	22:Ub:43:LYS:HG2	2.02	0.42
27:Zb:91:PRO:HA	27:Zb:101:TYR:HA	2.01	0.42
30:db:15:GLY:O	30:db:18:SER:OG	2.28	0.42
31:eb:41:THR:HA	31:eb:45:VAL:HG22	2.02	0.42
35:4b:33:U:H2'	35:4b:34:C:O4'	2.18	0.42
35:4b:55:A:H2'	35:4b:56:A:O4'	2.20	0.42
38:By:158:VAL:HG12	38:By:159:ARG:N	2.34	0.42
39:Cy:264:SER:OG	39:Cy:267:VAL:HG22	2.18	0.42
39:Cy:341:SER:HA	78:1b:515:C:H1'	2.02	0.42
42:Fy:107:ARG:O	42:Fy:109:THR:N	2.52	0.42
43:Gy:153:ILE:O	43:Gy:180:VAL:HG12	2.19	0.42
46:Jy:92:ARG:HA	46:Jy:172:LEU:HB2	2.02	0.42
51:Py:22:LEU:HD12	51:Py:146:ILE:HD12	2.00	0.42
60:Yy:44:GLY:C	60:Yy:45:ILE:HD13	2.45	0.42
60:Yy:56:VAL:HG22	60:Yy:57:LEU:H	1.85	0.42
68:gy:51:LEU:HD23	68:gy:51:LEU:H	1.83	0.42
78:1b:271:C:H2'	78:1b:272:G:C5'	2.49	0.42
78:1b:444:U:C4	78:1b:491:A:N6	2.87	0.42
78:1b:602:A:H2'	78:1b:603:A:O4'	2.20	0.42
78:1b:1886:A:H2'	78:1b:1887:A:O4'	2.19	0.42
78:1b:2437:G:C6	78:1b:2511:A:C6	3.08	0.42
78:1b:2588:U:H2'	78:1b:2589:G:O4'	2.20	0.42
1:a:192:U:O2'	1:a:193:U:O4'	2.38	0.42
1:a:624:G:C4	1:a:1027:A:C2	3.08	0.42
1:a:1541:G:N2	1:a:1570:A:H62	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:h:70:PRO:HB3	9:h:101:ILE:HB	2.00	0.42
22:v:83:GLU:O	30:4:53:ASN:N	2.46	0.42
34:3:20:GLY:HA2	34:3:66:LEU:HD23	2.01	0.42
31:5:43:ARG:NH1	31:5:56:MET:SD	2.93	0.42
78:Aa:421:G:C8	78:Aa:2365:C:C6	3.07	0.42
78:Aa:769:G:H4'	47:Na:172:LEU:HD21	2.02	0.42
78:Aa:1777:U:H2'	78:Aa:1778:G:C8	2.54	0.42
78:Aa:2842:U:H3'	78:Aa:2844:C:H41	1.85	0.42
78:Aa:2967:A:HO2'	78:Aa:2968:G:P	2.41	0.42
37:Da:240:ALA:HB1	37:Da:242:ARG:O	2.19	0.42
39:Fa:177:ASP:HA	39:Fa:180:LYS:HB3	2.02	0.42
40:Ga:95:TRP:CH2	40:Ga:181:PRO:HD3	2.55	0.42
41:Ha:56:LYS:NZ	41:Ha:101:PHE:O	2.49	0.42
53:C:12:ALA:HB2	53:C:22:VAL:HG21	2.02	0.42
55:E:17:ARG:NE	55:E:21:LYS:O	2.46	0.42
57:G:79:VAL:HG22	57:G:100:GLY:HA2	2.02	0.42
57:G:92:PHE:O	58:H:20:LEU:N	2.50	0.42
66:P:19:ARG:O	66:P:22:SER:OG	2.32	0.42
66:P:23:ASP:OD1	66:P:24:ARG:N	2.52	0.42
1:2b:698:U:O4	1:2b:741:C:N3	2.52	0.42
1:2b:771:A:C4	1:2b:772:G:C8	3.08	0.42
1:2b:1127:G:OP1	75:nb:11:ARG:NH1	2.53	0.42
2:Ab:40:ALA:HB2	2:Ab:46:HIS:ND1	2.34	0.42
3:Ba:86:LEU:HD23	3:Ba:100:PHE:HA	2.01	0.42
7:Eb:94:ALA:O	7:Eb:95:THR:OG1	2.38	0.42
8:Fb:140:THR:HG23	8:Fb:171:ALA:HB1	2.01	0.42
21:Tb:22:LEU:O	21:Tb:26:GLY:N	2.37	0.42
25:Xb:52:ILE:N	25:Xb:75:GLN:O	2.39	0.42
38:By:250:ALA:HB1	78:1b:2947:G:C4	2.55	0.42
39:Cy:207:VAL:HG12	39:Cy:208:VAL:N	2.33	0.42
43:Gy:83:ASP:OD1	43:Gy:86:THR:N	2.48	0.42
43:Gy:211:LEU:O	43:Gy:215:VAL:HG23	2.20	0.42
46:Jy:114:ILE:HD12	46:Jy:114:ILE:H	1.84	0.42
53:Ry:21:LYS:O	53:Ry:53:LYS:HB2	2.19	0.42
62:ay:32:ARG:NH2	78:1b:936:A:OP1	2.48	0.42
67:fy:57:LYS:NZ	78:1b:433:A:OP2	2.52	0.42
72:kb:30:LYS:C	72:kb:31:LEU:HD22	2.44	0.42
78:1b:1565:G:C2	78:1b:1575:A:N6	2.88	0.42
78:1b:2838:A:H62	78:1b:2850:G:N2	2.16	0.42
1:a:654:C:H3'	1:a:655:G:H5'	2.02	0.42
1:a:743:U:H2'	1:a:744:U:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1596:C:O2	30:4:32:ARG:NH2	2.51	0.42
3:c:90:GLU:O	3:c:97:LEU:N	2.48	0.42
21:u:73:VAL:CG2	21:u:105:LEU:HD12	2.50	0.42
22:v:62:VAL:HG22	22:v:85:ARG:HA	2.02	0.42
33:7:121:MET:SD	33:7:123:ILE:HG23	2.59	0.42
33:7:274:LEU:HD13	33:7:313:TRP:CD2	2.55	0.42
78:Aa:340:C:H2'	78:Aa:341:G:O4'	2.20	0.42
78:Aa:384:A:H2'	78:Aa:385:A:O4'	2.20	0.42
78:Aa:675:C:H2'	78:Aa:676:G:O4'	2.20	0.42
78:Aa:715:A:H4'	78:Aa:716:A:OP1	2.19	0.42
78:Aa:2740:A:N6	78:Aa:2752:U:O4	2.52	0.42
78:Aa:2775:U:HO2'	78:Aa:2777:G:N2	2.18	0.42
35:Bb:37:G:H2'	35:Bb:38:U:C6	2.54	0.42
35:Bb:119:U:H3'	40:Ga:258:LYS:NZ	2.35	0.42
40:Ga:114:GLY:C	40:Ga:115:LEU:HD22	2.44	0.42
47:Na:59:ARG:NH2	47:Na:69:VAL:HG23	2.35	0.42
49:Pa:48:ALA:HB1	49:Pa:53:TYR:HB2	2.02	0.42
72:V:8:ILE:O	72:V:12:LEU:HD23	2.19	0.42
1:2b:96:G:H21	1:2b:426:G:C4'	2.33	0.42
1:2b:272:U:HO2'	1:2b:273:G:H8	1.66	0.42
1:2b:756:A:C2	1:2b:757:A:H1'	2.55	0.42
1:2b:884:A:H2'	1:2b:885:G:C8	2.55	0.42
5:Cb:165:VAL:HG12	5:Cb:166:THR:N	2.34	0.42
8:Fb:74:ALA:HB2	18:Qb:79:TYR:CE2	2.54	0.42
10:Hb:57:ALA:HB2	10:Hb:89:HIS:HB2	2.02	0.42
11:Ib:93:THR:CB	11:Ib:95:THR:HG1	2.30	0.42
15:Mb:59:LEU:HD23	15:Mb:60:VAL:O	2.20	0.42
17:Ob:30:VAL:HG13	17:Ob:39:ILE:HB	2.02	0.42
18:Qb:33:GLY:HA3	21:Tb:7:ARG:HE	1.84	0.42
20:Sb:75:ASN:OD1	20:Sb:78:HIS:ND1	2.53	0.42
23:Vb:64:GLU:O	23:Vb:68:SER:OG	2.21	0.42
25:Xb:58:GLY:C	25:Xb:68:ILE:HG23	2.44	0.42
30:db:46:LYS:O	30:db:49:ASP:N	2.53	0.42
33:gb:176:LYS:C	33:gb:199:ILE:HD11	2.45	0.42
35:4b:62:U:N3	35:4b:63:A:N7	2.67	0.42
36:3b:104:A:H3'	36:3b:105:A:H5''	2.01	0.42
36:3b:152:G:OP1	43:Gy:60:ARG:NH2	2.45	0.42
37:Ay:102:LEU:HD12	37:Ay:102:LEU:N	2.35	0.42
37:Ay:173:GLY:N	78:1b:2179:C:N3	2.59	0.42
41:Ey:34:LEU:CD2	41:Ey:86:ALA:HB2	2.49	0.42
42:Fy:89:ILE:HD11	42:Fy:135:ALA:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:Fy:196:LYS:NZ	78:1b:1100:U:H3'	2.34	0.42
43:Gy:180:VAL:HG13	43:Gy:181:LYS:N	2.35	0.42
50:Oy:42[A]:ASN:OD1	50:Oy:125[A]:ARG:NH1	2.52	0.42
51:Py:122:ALA:HB1	51:Py:123:PRO:CD	2.50	0.42
68:gy:53:GLY:H	78:1b:1738:C:HO2'	1.63	0.42
70:ib:54:GLU:CB	70:ib:90:MET:HE1	2.48	0.42
73:lb:33:ASN:OD1	73:lb:34:THR:N	2.53	0.42
76:ob:16:THR:OG1	76:ob:17:CYS:N	2.52	0.42
78:1b:1896:A:N6	78:1b:2339:C:C4	2.88	0.42
1:a:27:U:H2'	1:a:28:A:O4'	2.20	0.42
1:a:364:G:OP2	1:a:377:G:N1	2.52	0.42
1:a:763:G:P	12:k:75:ALA:HB1	2.59	0.42
1:a:1023:A:O2'	1:a:1024:U:OP2	2.38	0.42
1:a:1173:C:HO2'	1:a:1601:G:H1	1.66	0.42
1:a:1522:U:O3'	21:u:78:LYS:NZ	2.53	0.42
1:a:1533:C:OP2	27:0:77:ARG:NH2	2.48	0.42
1:a:1785:U:H3'	17:p:133:ARG:NH2	2.35	0.42
2:b:178:ALA:O	2:b:182:LEU:HD12	2.19	0.42
7:f:44:LEU:O	7:f:48:LEU:HD13	2.20	0.42
9:h:126:ASP:CG	58:H:78:ALA:HA	2.45	0.42
11:j:101:ILE:HD13	11:j:168:CYS:HB2	2.01	0.42
17:p:32:ASP:OD1	17:p:32:ASP:N	2.46	0.42
24:x:61:ILE:HG22	24:x:63:VAL:HG23	2.02	0.42
78:Aa:91:G:P	76:Z:42:ARG:HE	2.42	0.42
78:Aa:347:G:O6	71:U:55:ARG:NH2	2.52	0.42
78:Aa:698:U:H2'	78:Aa:699:A:O4'	2.19	0.42
78:Aa:1367:G:HO2'	78:Aa:1368:U:C5'	2.31	0.42
78:Aa:1875:G:C8	53:C:20:ARG:NH2	2.86	0.42
78:Aa:2181:C:O3'	37:Da:193:ARG:NH2	2.49	0.42
78:Aa:2574:G:N7	61:K:56:LYS:NZ	2.54	0.42
78:Aa:2651:G:O2'	78:Aa:2796:G:N1	2.41	0.42
37:Da:65:ASP:OD1	37:Da:67:TYR:N	2.51	0.42
39:Fa:60:THR:HG22	39:Fa:61:SER:N	2.35	0.42
39:Fa:113:VAL:HG12	39:Fa:114:ASN:N	2.34	0.42
39:Fa:188:ARG:NE	39:Fa:197:ARG:O	2.49	0.42
45:La:146:ASP:OD1	45:La:147:VAL:N	2.53	0.42
52:B:86:THR:HG22	52:B:105:ARG:HB3	2.02	0.42
68:R:20:ILE:HD11	68:R:32:ALA:CB	2.50	0.42
73:W:23:LEU:HD23	73:W:24:PRO:O	2.20	0.42
73:W:27:ILE:HG23	73:W:30:ARG:HH21	1.85	0.42
1:2b:825:U:H2'	1:2b:826:U:O4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:1216:C:HO2'	1:2b:1217:A:P	2.42	0.42
5:Cb:116:LYS:HG3	5:Cb:117:THR:N	2.34	0.42
6:Db:157:LEU:HD12	6:Db:157:LEU:N	2.34	0.42
7:Eb:70:VAL:HG22	7:Eb:71:LYS:N	2.35	0.42
12:Jb:129:ILE:HG23	12:Jb:134:ILE:HD11	2.02	0.42
15:Mb:80:ASN:HA	15:Mb:86:VAL:HG12	2.01	0.42
20:Sb:109:LEU:O	20:Sb:112:ASP:N	2.51	0.42
21:Tb:116:ILE:HD12	21:Tb:122:ARG:HG3	2.02	0.42
26:Yb:21:LYS:N	26:Yb:75:VAL:O	2.42	0.42
31:eb:49:LEU:HD13	31:eb:58:PRO:CD	2.50	0.42
35:4b:53:U:H1'	35:4b:55:A:H62	1.85	0.42
38:By:287:LYS:O	38:By:293:ASN:ND2	2.43	0.42
39:Cy:354:VAL:O	39:Cy:358:THR:OG1	2.25	0.42
41:Ey:17:ALA:HB3	78:1b:592:A:O4'	2.20	0.42
44:Hy:36:LYS:HD2	44:Hy:78:MET:HE2	2.02	0.42
47:Ly:70:ARG:NH1	47:Ly:71:ALA:O	2.52	0.42
50:Oy:36[A]:VAL:HG21	50:Oy:108[A]:ILE:HG12	2.01	0.42
50:Oy:175[A]:THR:HG23	50:Oy:176[A]:LYS:HG3	2.02	0.42
51:Py:87:SER:O	51:Py:91:VAL:HG23	2.20	0.42
57:Vy:136:VAL:HG12	57:Vy:137:VAL:N	2.35	0.42
65:dy:6:ASP:O	65:dy:77:ARG:NE	2.53	0.42
78:1b:618:C:H2'	78:1b:619:A:O4'	2.20	0.42
78:1b:2423:U:O4	78:1b:2607:G:O6	2.36	0.42
78:1b:2592:G:HO2'	78:1b:2593:A:C4'	2.33	0.42
1:a:374:U:O2	1:a:603:U:H4'	2.19	0.42
1:a:707:A:O2'	1:a:731:C:N4	2.52	0.42
1:a:750:U:H2'	1:a:751:G:O4'	2.20	0.42
1:a:806:A:OP1	24:x:78:ARG:NH1	2.52	0.42
1:a:1227:A:H4'	1:a:1228:G:H5'	2.01	0.42
1:a:1597:A:N1	30:4:14:TYR:O	2.53	0.42
5:d:225:LEU:HB2	23:w:23:ILE:HD12	2.02	0.42
7:f:192:ILE:HG23	7:f:228:ILE:HD11	2.01	0.42
8:g:137:ILE:HG23	8:g:171:ALA:HB3	2.01	0.42
10:i:59:ALA:HB1	10:i:93:LEU:HD12	2.02	0.42
25:y:127:VAL:HG21	25:y:132:LEU:HD21	2.01	0.42
33:7:205:SER:OG	33:7:208:GLY:N	2.52	0.42
78:Aa:509:U:N3	78:Aa:583:G:O6	2.52	0.42
78:Aa:980:A:H2'	78:Aa:981:U:N1	2.35	0.42
78:Aa:2746:A:OP1	40:Ga:179:ARG:NE	2.49	0.42
78:Aa:3029:A:H3'	78:Aa:3030:G:O4'	2.20	0.42
78:Aa:3334:U:H4'	78:Aa:3335:A:C5'	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:Ca:24:G:H2'	36:Ca:25:G:O4'	2.20	0.42
42:Ia:239:LEU:HD23	42:Ia:239:LEU:C	2.45	0.42
43:Ja:156:ASP:OD1	43:Ja:156:ASP:N	2.51	0.42
45:La:96:VAL:HG12	45:La:97:LEU:N	2.35	0.42
45:La:142:ASP:OD1	45:La:142:ASP:N	2.51	0.42
47:Na:138:VAL:HG12	47:Na:139:LEU:N	2.34	0.42
51:A:180:LYS:O	51:A:184:ALA:CA	2.66	0.42
59:I:112:THR:HG22	59:I:122:ALA:CB	2.50	0.42
61:K:50:PRO:HG3	61:K:68:ILE:HD11	2.01	0.42
1:2b:628:G:O2'	78:1b:846:A:C2'	2.68	0.41
1:2b:827:C:C4	1:2b:846:G:O6	2.73	0.41
1:2b:1472:C:OP1	8:Fb:102:ARG:NH2	2.47	0.41
1:2b:1525:A:H2'	1:2b:1526:A:O4'	2.20	0.41
2:Ab:56:LYS:HZ1	23:Vb:66:ASP:CG	2.26	0.41
2:Ab:74:VAL:HB	2:Ab:121:VAL:HG23	2.01	0.41
2:Ab:86:VAL:HG12	2:Ab:174:TRP:CE2	2.55	0.41
5:Cb:231:ALA:O	23:Vb:16:LYS:NZ	2.42	0.41
10:Hb:63:PRO:O	10:Hb:64:VAL:HG12	2.20	0.41
39:Cy:82:THR:HG23	78:1b:355:A:H61	1.85	0.41
44:Hy:107:ASP:OD1	44:Hy:107:ASP:N	2.51	0.41
46:Jy:90:GLN:C	46:Jy:91:LEU:HD23	2.45	0.41
49:Ny:5:LYS:NZ	78:1b:265:A:O3'	2.40	0.41
52:Qy:3:ILE:HG22	52:Qy:4:ASP:N	2.34	0.41
66:ey:117:ILE:HG22	66:ey:118:LYS:H	1.85	0.41
74:mb:114:LYS:HZ3	78:1b:3107:U:P	2.42	0.41
78:1b:55:G:C2'	78:1b:56:G:H5'	2.50	0.41
78:1b:898:U:H2'	78:1b:899:U:O4'	2.19	0.41
78:1b:1052:U:C2	78:1b:1053:A:C8	3.08	0.41
78:1b:1601:U:N3	78:1b:1604:G:OP2	2.49	0.41
78:1b:1690:C:H2'	78:1b:1691:U:O4'	2.20	0.41
1:a:514:G:H22	1:a:543:C:H5	1.68	0.41
1:a:1257:U:O2'	1:a:1258:U:O4'	2.37	0.41
1:a:1553:G:H1'	30:4:14:TYR:CE2	2.55	0.41
1:a:1739:C:H3'	1:a:1740:A:H8	1.85	0.41
1:a:1740:A:H2'	1:a:1741:U:C6	2.55	0.41
6:e:90:ARG:HH21	6:e:91:VAL:HG22	1.84	0.41
7:f:66:MET:HE1	7:f:78:THR:OG1	2.20	0.41
7:f:184:THR:CA	7:f:189:LEU:HD13	2.49	0.41
9:h:71:THR:HG22	9:h:72:ARG:N	2.32	0.41
11:j:191:PHE:O	11:j:194:ARG:NH2	2.54	0.41
17:p:63:ALA:O	17:p:67:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:q:28:MET:HE1	4:q:36:LEU:HD21	2.01	0.41
20:t:28:ILE:HG12	20:t:61:LEU:HD11	2.02	0.41
30:4:21:CYS:O	30:4:25:SER:N	2.48	0.41
78:Aa:168:U:H2'	78:Aa:169:U:O4'	2.20	0.41
78:Aa:170:G:C6	78:Aa:249:U:N3	2.88	0.41
78:Aa:253:A:HO2'	78:Aa:254:A:H8	1.67	0.41
78:Aa:411:U:H2'	78:Aa:412:G:H8	1.85	0.41
78:Aa:776:U:H5	78:Aa:2719:U:O2	2.03	0.41
78:Aa:1747:G:H4'	72:V:53:THR:HG21	2.02	0.41
78:Aa:1898:G:H22	78:Aa:1901:A:N6	2.13	0.41
78:Aa:2701:U:OP1	55:E:23:GLY:N	2.53	0.41
78:Aa:3112:G:H21	78:Aa:3122:A:H62	1.68	0.41
38:Ea:166:ILE:HD13	38:Ea:173:GLN:HG2	2.01	0.41
39:Fa:301:PRO:O	39:Fa:302:ALA:HB2	2.20	0.41
43:Ja:94:PHE:HB3	43:Ja:189:LEU:HD21	2.02	0.41
44:Ka:173:ARG:C	74:X:127:LEU:HD11	2.44	0.41
47:Na:159:VAL:N	62:L:96:LYS:O	2.53	0.41
49:Pa:118:SER:HB2	49:Pa:132:VAL:HG13	2.02	0.41
57:G:22:ILE:HG23	57:G:34:LEU:C	2.44	0.41
57:G:114:ILE:HG22	57:G:115:THR:N	2.35	0.41
77:aa:85:ARG:NH2	77:aa:86:LEU:HD21	2.35	0.41
1:2b:149:C:N3	1:2b:166:C:N4	2.68	0.41
1:2b:885:G:H2'	1:2b:886:U:C6	2.55	0.41
1:2b:1100:G:O4'	25:Xb:7:ARG:NH2	2.53	0.41
1:2b:1170:G:C2	1:2b:1171:A:C8	3.08	0.41
1:2b:1479:A:N6	1:2b:1480:G:O6	2.53	0.41
15:Mb:81:ASP:N	15:Mb:81:ASP:OD1	2.53	0.41
15:Mb:137:MET:O	15:Mb:141:SER:OG	2.39	0.41
21:Tb:52:GLY:C	21:Tb:54:PHE:H	2.28	0.41
27:Zb:47:TYR:O	27:Zb:51:LEU:HD13	2.20	0.41
27:Zb:54:VAL:HG22	27:Zb:55:PRO:HD3	2.01	0.41
31:eb:14:VAL:HG12	31:eb:18:THR:HG23	2.02	0.41
35:4b:36:C:H4'	40:Dy:155:THR:HB	2.02	0.41
38:By:87:VAL:O	38:By:87:VAL:HG23	2.21	0.41
39:Cy:52:VAL:HG11	39:Cy:99:MET:SD	2.59	0.41
41:Ey:37:GLY:O	41:Ey:91:VAL:N	2.48	0.41
49:Ny:122:ASN:OD1	49:Ny:123:GLN:N	2.50	0.41
53:Ry:106:LEU:HD22	53:Ry:138:LEU:HD21	2.01	0.41
59:Xy:37:THR:HG22	59:Xy:38:LEU:N	2.35	0.41
60:Yy:54:ASP:OD2	60:Yy:109:LEU:HD23	2.20	0.41
66:ey:54:LYS:HD2	78:1b:1161:G:O2'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:fy:4:SER:HG	67:fy:6:ARG:H	1.67	0.41
78:1b:262:U:H2'	78:1b:263:C:O4'	2.20	0.41
78:1b:664:U:H2'	78:1b:665:A:H8	1.85	0.41
78:1b:2882:U:H2'	78:1b:2883:U:O4'	2.19	0.41
78:1b:3179:U:O4	78:1b:3208:G:N2	2.53	0.41
1:a:925:G:H2'	1:a:926:A:O4'	2.20	0.41
1:a:1209:C:H2'	1:a:1210:C:O4'	2.19	0.41
1:a:1636:C:O2	1:a:1765:A:N6	2.53	0.41
8:g:82:PHE:O	8:g:85:ALA:HB3	2.20	0.41
11:j:66:SER:O	11:j:183:ILE:HG22	2.21	0.41
18:r:108:ALA:O	18:r:111:SER:OG	2.36	0.41
25:y:46:SER:OG	25:y:47:SER:N	2.53	0.41
33:7:172:ALA:CB	33:7:202:LEU:HD22	2.51	0.41
33:7:274:LEU:HD13	33:7:313:TRP:CE2	2.55	0.41
78:Aa:766:U:H4'	78:Aa:767:U:O4'	2.20	0.41
78:Aa:1225:A:H2'	78:Aa:1226:G:O4'	2.20	0.41
78:Aa:3182:G:H2'	78:Aa:3183:A:O4'	2.19	0.41
78:Aa:3377:G:O3'	38:Ea:313:HIS:NE2	2.50	0.41
39:Fa:312:VAL:HG23	39:Fa:313:LEU:HB2	2.02	0.41
42:Ia:84:VAL:HG23	42:Ia:119:VAL:CG2	2.50	0.41
43:Ja:136:LEU:C	43:Ja:136:LEU:HD23	2.45	0.41
44:Ka:36:LYS:HE2	44:Ka:78:MET:HE2	2.02	0.41
46:Ma:171:VAL:HG12	46:Ma:172:LEU:N	2.35	0.41
47:Na:76:THR:O	47:Na:76:THR:OG1	2.38	0.41
51:A:21:TYR:C	51:A:22:LEU:HD12	2.45	0.41
60:J:91:ASN:OD1	60:J:93:ALA:N	2.53	0.41
61:K:89:VAL:O	61:K:89:VAL:HG22	2.19	0.41
66:P:103:LYS:O	66:P:106:VAL:HG22	2.20	0.41
80:ba:18:TYR:CE2	80:ba:52:LEU:HD13	2.55	0.41
1:2b:1304:G:O2'	1:2b:1305:U:OP1	2.31	0.41
4:Pb:36:LEU:HD12	4:Pb:37:ALA:N	2.35	0.41
9:Gb:32:ILE:HD11	9:Gb:63:MET:HE3	2.00	0.41
11:Ib:6:ASP:O	11:Ib:9:HIS:NE2	2.52	0.41
15:Mb:91:VAL:HG22	15:Mb:92:ALA:N	2.35	0.41
15:Mb:133:LEU:HA	15:Mb:136:ILE:HG22	2.01	0.41
24:Wb:50:PHE:HB3	24:Wb:63:VAL:HA	2.03	0.41
28:ab:77:CYS:O	28:ab:81:ALA:HB2	2.20	0.41
38:By:102:LEU:HD23	38:By:102:LEU:N	2.35	0.41
40:Dy:78:ALA:HB2	40:Dy:108:ARG:NH1	2.36	0.41
41:Ey:52:VAL:HG22	41:Ey:53:VAL:N	2.31	0.41
49:Ny:112:ASN:HB3	78:1b:19:U:O2'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:Vy:13:ILE:HG22	57:Vy:85:TRP:CD1	2.56	0.41
66:ey:98:HIS:ND1	78:1b:1411:C:OP1	2.51	0.41
71:jb:7:SER:O	71:jb:10:LYS:HB2	2.20	0.41
71:jb:67:LEU:HD12	71:jb:70:VAL:HG21	2.02	0.41
77:pb:5:THR:OG1	78:1b:837:A:OP1	2.37	0.41
78:1b:946:U:C2	78:1b:947:G:C8	3.08	0.41
78:1b:1688:U:C2	78:1b:1689:U:C5	3.08	0.41
78:1b:1731:A:H2'	78:1b:1732:U:O4'	2.21	0.41
78:1b:2101:C:HO2'	78:1b:2102:U:C5'	2.31	0.41
1:a:472:U:O2'	1:a:769:A:N3	2.53	0.41
1:a:654:C:H3'	1:a:655:G:C5'	2.50	0.41
1:a:1786:G:OP2	17:p:133:ARG:NE	2.53	0.41
7:f:184:THR:HA	7:f:189:LEU:HD13	2.01	0.41
10:i:96:ARG:HB2	10:i:121:VAL:HG13	2.02	0.41
11:j:99:ALA:N	11:j:169:ILE:O	2.54	0.41
11:j:100:ALA:HB2	11:j:169:ILE:HB	2.02	0.41
15:n:97:LEU:C	15:n:97:LEU:HD23	2.45	0.41
16:o:27:LYS:C	16:o:28:LEU:HD12	2.44	0.41
26:z:55:VAL:HG12	26:z:75:VAL:HG22	2.02	0.41
28:1:36:ILE:HD11	28:1:75:VAL:HG22	2.01	0.41
30:4:52:PHE:O	30:4:53:ASN:ND2	2.53	0.41
31:5:59:GLY:O	31:5:61:SER:N	2.50	0.41
33:7:70:ASP:HB3	33:7:83:ALA:HB3	2.01	0.41
78:Aa:74:G:H2'	78:Aa:75:G:O4'	2.20	0.41
78:Aa:151:A:C5	78:Aa:152:U:C5	3.08	0.41
78:Aa:225:C:H2'	78:Aa:226:C:O4'	2.21	0.41
78:Aa:692:A:OP1	49:Pa:201:ARG:NH2	2.53	0.41
78:Aa:766:U:H4'	78:Aa:767:U:C5'	2.50	0.41
78:Aa:1335:C:H2'	78:Aa:1336:U:C6	2.55	0.41
78:Aa:2369:G:H2'	78:Aa:2370:G:C8	2.56	0.41
78:Aa:2772:C:O2'	78:Aa:2773:C:OP2	2.26	0.41
78:Aa:3111:U:C2	78:Aa:3124:G:N1	2.88	0.41
78:Aa:3202:G:H2'	78:Aa:3203:U:O4'	2.20	0.41
78:Aa:3244:A:O4'	38:Ea:97:ARG:NH2	2.51	0.41
78:Aa:3348:G:O6	78:Aa:3357:U:C4	2.73	0.41
50:Qa:88:VAL:HG12	50:Qa:89:SER:N	2.35	0.41
50:Qa:113:ASP:O	50:Qa:117:ARG:NH1	2.53	0.41
55:E:141:VAL:O	55:E:141:VAL:HG13	2.20	0.41
55:E:150:THR:C	55:E:151:LEU:HD22	2.45	0.41
66:P:100:ILE:HG21	66:P:108:ILE:CD1	2.50	0.41
1:2b:222:A:H2'	1:2b:223:U:O4'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:330:G:C6	1:2b:331:A:C6	3.08	0.41
1:2b:388:G:C6	1:2b:410:A:N1	2.89	0.41
1:2b:747:C:HO2'	24:Wb:124:LYS:HZ2	1.65	0.41
1:2b:813:U:O2'	1:2b:814:A:OP2	2.34	0.41
1:2b:1061:A:H4'	1:2b:1061:A:OP1	2.20	0.41
1:2b:1796:C:OP1	28:ab:87:ARG:NH2	2.44	0.41
2:Ab:64:ILE:HG21	2:Ab:181:VAL:HG21	2.03	0.41
7:Eb:91:THR:C	7:Eb:92:LEU:HD12	2.46	0.41
7:Eb:123:LEU:HD23	7:Eb:161:LYS:CA	2.47	0.41
11:Ib:39:GLY:N	11:Ib:60:ILE:O	2.41	0.41
20:Sb:105:VAL:HG23	20:Sb:106:GLU:H	1.86	0.41
23:Vb:66:ASP:O	23:Vb:70:ASN:N	2.36	0.41
26:Yb:88:THR:O	26:Yb:91:LEU:N	2.54	0.41
27:Zb:49:ARG:CD	27:Zb:69:LEU:HD11	2.50	0.41
35:4b:88:G:H2'	35:4b:89:G:O4'	2.21	0.41
38:By:160:VAL:HG12	38:By:162:VAL:CG1	2.50	0.41
38:By:372:THR:HG22	38:By:374:ALA:N	2.35	0.41
50:Oy:189[A]:ASP:OD1	50:Oy:189[A]:ASP:N	2.51	0.41
70:ib:51:SER:OG	70:ib:54:GLU:OE1	2.38	0.41
77:pb:19:GLY:O	77:pb:23:ARG:NE	2.53	0.41
78:1b:31:C:H2'	78:1b:32:U:O4'	2.20	0.41
78:1b:1724:U:H1'	78:1b:1725:C:C6	2.56	0.41
78:1b:1809:A:H2'	78:1b:1810:A:O4'	2.20	0.41
78:1b:1845:G:H3'	78:1b:1846:C:C5'	2.50	0.41
78:1b:1902:G:C6	78:1b:1903:U:C2	3.08	0.41
78:1b:2686:A:H2'	78:1b:2687:G:O4'	2.20	0.41
78:1b:2815:G:H21	78:1b:2818:U:H3	1.67	0.41
78:1b:2893:C:H2'	78:1b:2894:C:H5''	2.03	0.41
78:1b:3037:U:O2'	78:1b:3038:U:H5'	2.20	0.41
78:1b:3160:U:H2'	78:1b:3161:C:C6	2.56	0.41
78:1b:3202:G:H2'	78:1b:3203:U:O4'	2.20	0.41
78:1b:3234:A:H2'	78:1b:3235:C:O4'	2.19	0.41
1:a:475:A:OP2	12:k:126:ARG:NE	2.50	0.41
3:c:71:ALA:HB2	3:c:80:SER:HA	2.01	0.41
8:g:225:ARG:HH21	34:3:61:ARG:HE	1.68	0.41
11:j:81:VAL:HA	11:j:102:VAL:HG12	2.02	0.41
11:j:166:TYR:O	11:j:183:ILE:HD12	2.19	0.41
13:l:45:ALA:O	13:l:49:LEU:HD23	2.20	0.41
21:u:76:LEU:HD11	21:u:105:LEU:HD21	2.03	0.41
24:x:50:PHE:HB2	24:x:63:VAL:HG22	2.01	0.41
31:5:4:VAL:O	31:5:4:VAL:HG22	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:7:18:GLY:HA3	33:7:38:ARG:HB2	2.03	0.41
78:Aa:112:U:OP1	69:S:104:GLN:NE2	2.53	0.41
78:Aa:181:U:H3'	78:Aa:182:U:H5''	2.01	0.41
78:Aa:631:U:C2	78:Aa:632:G:N7	2.88	0.41
78:Aa:855:U:H4'	53:C:95:TRP:CE2	2.55	0.41
78:Aa:1347:U:O2'	39:Fa:305:ALA:HB2	2.20	0.41
78:Aa:1405:U:H2'	78:Aa:1406:A:O4'	2.20	0.41
78:Aa:1613:A:OP1	72:V:51:LEU:N	2.40	0.41
78:Aa:2209:U:O2	78:Aa:2209:U:O2'	2.20	0.41
78:Aa:3111:U:O2	78:Aa:3124:G:C2	2.72	0.41
78:Aa:3313:U:O4	78:Aa:3314:A:N6	2.53	0.41
35:Bb:110:G:H2'	35:Bb:111:U:C6	2.55	0.41
37:Da:44:ILE:N	37:Da:44:ILE:HD12	2.34	0.41
39:Fa:6:VAL:HG23	39:Fa:22:LEU:CD2	2.51	0.41
39:Fa:38:VAL:O	39:Fa:42:VAL:HG23	2.21	0.41
40:Ga:85:ARG:NH2	40:Ga:252:ALA:O	2.54	0.41
46:Ma:87:LYS:NZ	46:Ma:106:ILE:HG22	2.35	0.41
49:Pa:159:ARG:HB2	49:Pa:164:LEU:HB2	2.02	0.41
50:Qa:7:VAL:HG12	50:Qa:8:VAL:N	2.35	0.41
54:D:152:LEU:HD12	54:D:172:TYR:OH	2.21	0.41
61:K:46:ILE:HD11	61:K:49:TYR:CZ	2.55	0.41
80:ba:18:TYR:HB3	80:ba:88:PHE:CD2	2.55	0.41
1:2b:235:G:O2'	1:2b:236:A:P	2.77	0.41
1:2b:772:G:C4	1:2b:773:C:C5	3.08	0.41
1:2b:1174:C:H42	1:2b:1465:C:N4	2.19	0.41
1:2b:1564:U:O2'	1:2b:1565:C:H5'	2.21	0.41
1:2b:1699:G:O6	1:2b:1703:C:C4	2.73	0.41
8:Fb:117:THR:HG22	8:Fb:121:ILE:HD12	2.02	0.41
10:Hb:64:VAL:HG23	10:Hb:67:LEU:HB3	2.02	0.41
12:Jb:18:PRO:HB2	12:Jb:19:TYR:CD2	2.55	0.41
20:Sb:105:VAL:HG23	20:Sb:106:GLU:N	2.34	0.41
26:Yb:24:VAL:HG12	26:Yb:25:VAL:N	2.36	0.41
33:gb:127:ARG:HA	33:gb:150:TRP:HB2	2.02	0.41
35:4b:111:U:O2'	35:4b:112:G:OP2	2.39	0.41
37:Ay:10:LYS:NZ	78:1b:2183:A:OP1	2.47	0.41
39:Cy:246:ARG:O	39:Cy:248:VAL:HG23	2.20	0.41
45:Iy:31:ILE:HD13	45:Iy:65:LEU:HB3	2.03	0.41
45:Iy:40:LYS:HE3	78:1b:1010:G:H4'	2.01	0.41
50:Oy:37[A]:ARG:NH1	78:1b:3183:A:OP1	2.47	0.41
51:Py:24:VAL:HG22	51:Py:25:SER:H	1.85	0.41
63:by:8:THR:O	63:by:8:THR:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:cy:95:ALA:HB1	64:cy:98:SER:HB3	2.02	0.41
68:gy:60:ARG:NH1	78:1b:1593:A:OP1	2.54	0.41
78:1b:51:A:H2'	78:1b:52:A:O4'	2.19	0.41
78:1b:547:G:H1'	78:1b:548:G:C8	2.55	0.41
78:1b:1741:A:H2'	78:1b:1742:U:H5'	2.01	0.41
1:a:305:C:O3'	14:m:88:ARG:NH2	2.53	0.41
1:a:479:C:H2'	1:a:480:G:O4'	2.19	0.41
1:a:576:G:H22	25:y:67:ALA:HB2	1.85	0.41
1:a:773:C:O2'	1:a:787:G:N2	2.53	0.41
1:a:1358:G:OP1	21:u:130:ARG:NH2	2.53	0.41
1:a:1535:U:O4	8:g:186:ASN:N	2.53	0.41
2:b:69:ASN:ND2	5:d:245:ASP:OD1	2.44	0.41
5:d:187:LEU:HD23	5:d:187:LEU:C	2.45	0.41
7:f:126:VAL:HG23	7:f:126:VAL:O	2.20	0.41
12:k:141:VAL:HG13	12:k:141:VAL:O	2.20	0.41
22:v:38:SER:O	22:v:42:VAL:HG23	2.20	0.41
24:x:75:ILE:HD11	24:x:93:LEU:HD13	2.01	0.41
34:3:39:THR:HG23	34:3:39:THR:O	2.20	0.41
78:Aa:170:G:C2	78:Aa:249:U:C2	3.09	0.41
78:Aa:323:A:H2'	78:Aa:324:A:H5'	2.02	0.41
78:Aa:411:U:O4	36:Ca:13:A:N6	2.52	0.41
78:Aa:591:G:O2'	41:Ha:17:ALA:O	2.25	0.41
78:Aa:1063:G:H22	55:E:112:ASN:ND2	2.19	0.41
78:Aa:1375:G:C2	78:Aa:1376:C:C5	3.09	0.41
78:Aa:1580:A:O3'	78:Aa:2522:G:N2	2.54	0.41
78:Aa:2339:C:P	57:G:48:ARG:HG3	2.60	0.41
78:Aa:2938:G:C2	78:Aa:2939:G:C8	3.09	0.41
35:Bb:96:U:OP1	54:D:43:TYR:OH	2.29	0.41
36:Ca:25:G:N7	60:J:13:ARG:NH1	2.54	0.41
36:Ca:94:C:OP1	71:U:76:ASN:ND2	2.46	0.41
38:Ea:95:THR:OG1	38:Ea:98:GLY:N	2.53	0.41
38:Ea:221:THR:HG22	38:Ea:273:HIS:H	1.85	0.41
39:Fa:25:VAL:HG13	39:Fa:26:PHE:N	2.34	0.41
46:Ma:87:LYS:HE2	46:Ma:106:ILE:HG22	2.01	0.41
77:aa:57:CYS:SG	77:aa:60:CYS:N	2.87	0.41
1:2b:215:A:C4	1:2b:242:U:C4	3.09	0.41
1:2b:557:G:O3'	1:2b:558:U:H4'	2.20	0.41
1:2b:629:U:O5'	78:1b:846:A:H8	2.03	0.41
1:2b:897:C:HO2'	1:2b:898:A:C5'	2.33	0.41
1:2b:933:A:O2'	1:2b:934:C:O5'	2.38	0.41
1:2b:1101:G:O3'	24:Wb:76:SER:OG	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2b:1320:U:O2'	1:2b:1321:A:O5'	2.35	0.41
7:Eb:257:ALA:HB1	78:Aa:2539:C:C5'	2.50	0.41
13:Kb:43:ILE:O	13:Kb:46:LEU:N	2.54	0.41
25:Xb:66:SER:O	25:Xb:67:ALA:HB2	2.20	0.41
26:Yb:23:PHE:HE1	26:Yb:75:VAL:HG12	1.86	0.41
33:gb:174:ASN:OD1	33:gb:174:ASN:N	2.54	0.41
37:Ay:240:ALA:HB1	37:Ay:242:ARG:O	2.20	0.41
39:Cy:29:PRO:O	39:Cy:124:SER:OG	2.32	0.41
40:Dy:40:HIS:HD1	40:Dy:42:ALA:HB3	1.86	0.41
40:Dy:83:LEU:N	40:Dy:84:PRO:CD	2.84	0.41
47:Ly:57:VAL:HG22	47:Ly:58:VAL:N	2.36	0.41
48:My:38:ILE:O	54:Sy:95:ARG:NH2	2.41	0.41
55:Ty:116:ARG:NH2	78:1b:1096:U:OP2	2.53	0.41
56:Uy:37:LEU:C	56:Uy:41:ILE:HD12	2.45	0.41
62:ay:26:ARG:NH1	78:1b:939:U:OP2	2.49	0.41
65:dy:33:VAL:HG13	65:dy:51:LEU:HD11	2.03	0.41
67:fy:49:ILE:HD11	67:fy:71:VAL:CG2	2.49	0.41
78:1b:61:A:H2'	78:1b:62:A:O4'	2.20	0.41
78:1b:100:A:O2'	78:1b:101:G:H5'	2.20	0.41
78:1b:692:A:C4	78:1b:693:A:C8	3.08	0.41
78:1b:949:C:H2'	78:1b:950:G:O4'	2.20	0.41
78:1b:987:U:C2	78:1b:988:U:C5	3.09	0.41
78:1b:1008:U:H2'	78:1b:1009:A:O4'	2.21	0.41
78:1b:1159:A:O2'	78:1b:1160:C:H5'	2.21	0.41
78:1b:1185:C:H2'	78:1b:1186:G:O4'	2.21	0.41
78:1b:1227:C:N4	78:1b:1228:C:H41	2.18	0.41
78:1b:1788:C:C2	78:1b:1789:G:C8	3.09	0.41
78:1b:2334:U:H2'	78:1b:2335:G:H5'	2.02	0.41
78:1b:3163:A:H2'	78:1b:3164:C:C6	2.56	0.41
1:a:604:A:H2'	1:a:605:A:O4'	2.19	0.41
1:a:628:G:N2	1:a:629:U:O4	2.53	0.41
1:a:883:C:C2	1:a:946:U:C2	3.08	0.41
1:a:1478:G:OP1	21:u:39:THR:HG21	2.21	0.41
1:a:1585:U:OP2	1:a:1610:G:N1	2.47	0.41
1:a:1681:A:C2	1:a:1720:G:N2	2.85	0.41
3:c:35:PRO:C	3:c:41:ARG:HE	2.28	0.41
6:e:85:VAL:C	6:e:86:LEU:HD12	2.45	0.41
6:e:196:ARG:HG2	6:e:197:THR:HG23	2.02	0.41
14:m:117:VAL:HG22	14:m:118:GLN:H	1.86	0.41
16:o:44:GLY:C	16:o:45:LEU:HD23	2.45	0.41
4:q:67:ALA:HB2	4:q:73:PRO:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:4:47:ALA:O	30:4:50:ILE:N	2.54	0.41
32:6:140:TYR:HD1	32:6:149:LYS:HZ1	1.66	0.41
78:Aa:110:G:OP2	47:Na:73:ARG:NH2	2.51	0.41
78:Aa:640:U:OP1	62:L:21:ARG:NH1	2.47	0.41
78:Aa:1019:G:H22	78:Aa:1033:U:H3	1.68	0.41
78:Aa:1237:G:H22	78:Aa:1251:A:H2	1.68	0.41
78:Aa:1376:C:C2	78:Aa:1377:G:C8	3.08	0.41
78:Aa:1787:A:H2'	78:Aa:1788:C:O4'	2.20	0.41
40:Ga:106:ALA:O	40:Ga:109:THR:OG1	2.38	0.41
46:Ma:10:ARG:NH1	46:Ma:151:SER:O	2.53	0.41
48:Oa:23:ILE:HD11	48:Oa:46:ILE:HD12	2.00	0.41
48:Oa:123:LEU:HD13	50:Qa:194:LEU:HG	2.03	0.41
55:E:66:ASN:O	55:E:73:GLY:N	2.47	0.41
58:H:72:SER:OG	58:H:74:LYS:HE3	2.21	0.41
59:I:59:SER:O	59:I:63:ILE:HG22	2.21	0.41
60:J:57:LEU:HD23	60:J:58:VAL:O	2.20	0.41
1:2b:400:A:H4'	1:2b:401:A:H5''	2.02	0.41
1:2b:538:A:O2'	1:2b:538:A:N3	2.48	0.41
1:2b:609:U:O2'	1:2b:610:G:OP2	2.26	0.41
1:2b:647:G:H22	1:2b:687:G:N2	2.15	0.41
1:2b:1098:U:OP2	5:Cb:168:ARG:NE	2.38	0.41
1:2b:1201:G:N2	1:2b:1600:A:C4	2.88	0.41
1:2b:1230:A:C5	1:2b:1231:U:H1'	2.56	0.41
1:2b:1530:C:OP2	27:Zb:96:SER:OG	2.12	0.41
1:2b:1666:U:C4	1:2b:1736:G:C2	3.08	0.41
2:Ab:123:VAL:HG12	2:Ab:125:ASP:N	2.36	0.41
2:Ab:181:VAL:O	2:Ab:185:ARG:N	2.49	0.41
6:Db:65:ARG:HA	6:Db:68:GLU:HG2	2.03	0.41
7:Eb:129:VAL:HG12	7:Eb:139:VAL:HG12	2.01	0.41
8:Fb:130:ILE:O	8:Fb:133:VAL:HG22	2.21	0.41
8:Fb:173:ALA:O	8:Fb:176:THR:OG1	2.32	0.41
18:Qb:36:ILE:HD11	18:Qb:48:VAL:CG2	2.50	0.41
19:Rb:75:GLU:O	19:Rb:79:GLU:HG3	2.20	0.41
26:Yb:58:PHE:O	26:Yb:72:PHE:N	2.53	0.41
29:bb:59:CYS:HG	29:bb:61:THR:HG1	1.68	0.41
33:gb:79:TYR:HA	33:gb:94:VAL:HG23	2.02	0.41
37:Ay:122:ASP:OD1	37:Ay:123:ARG:N	2.53	0.41
39:Cy:138:ARG:HD2	39:Cy:244:LEU:O	2.20	0.41
39:Cy:188:ARG:HH22	78:1b:1382:G:P	2.44	0.41
40:Dy:110:LEU:O	40:Dy:114:GLY:N	2.53	0.41
44:Hy:171:ASP:OD2	44:Hy:173:ARG:NH2	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:Qy:120:GLU:CG	52:Qy:122:ILE:HD11	2.50	0.41
66:ey:79:VAL:O	66:ey:82:LEU:N	2.54	0.41
69:hb:17:LEU:HD13	69:hb:58:ILE:CG1	2.51	0.41
71:jb:50:GLY:O	71:jb:53:ALA:N	2.52	0.41
76:ob:35:LEU:HD12	76:ob:35:LEU:N	2.34	0.41
78:1b:1481:A:O2'	78:1b:1859:A:OP2	2.34	0.41
78:1b:2353:G:C5	78:1b:2354:C:C5	3.09	0.41
1:a:163:G:H2'	1:a:164:A:O4'	2.20	0.41
1:a:542:A:O2'	1:a:543:C:O5'	2.39	0.41
1:a:823:G:C6	1:a:850:A:N6	2.88	0.41
1:a:868:G:C5'	16:o:91:LEU:HD21	2.51	0.41
3:c:142:PHE:O	3:c:207:LEU:HD12	2.19	0.41
5:d:65:GLU:OE1	5:d:67:GLN:NE2	2.54	0.41
8:g:52:GLU:O	8:g:131:GLN:NE2	2.50	0.41
10:i:38:LEU:CD2	10:i:77:LEU:HD11	2.50	0.41
18:r:35:PRO:HD2	18:r:38:LEU:HD12	2.02	0.41
25:y:133:LEU:HD21	25:y:137:LYS:CE	2.51	0.41
28:1:41:ILE:HG23	28:1:68:TYR:CD1	2.55	0.41
28:1:58:VAL:HG12	28:1:59:TYR:N	2.36	0.41
78:Aa:48:A:H4'	78:Aa:49:A:H5'	2.03	0.41
78:Aa:152:U:C2	78:Aa:153:U:C5	3.07	0.41
78:Aa:524:U:O4	78:Aa:568:G:N1	2.49	0.41
78:Aa:1055:A:OP2	78:Aa:2637:A:N6	2.52	0.41
78:Aa:1596:C:O2'	78:Aa:1696:A:N3	2.41	0.41
78:Aa:1793:C:C4	37:Da:179:LEU:HD21	2.56	0.41
78:Aa:2425:G:H2'	78:Aa:2426:U:O4'	2.20	0.41
35:Bb:45:A:OP1	40:Ga:151:GLN:NE2	2.52	0.41
37:Da:30:ARG:O	37:Da:163:ARG:NH2	2.43	0.41
37:Da:96:LEU:HD23	37:Da:96:LEU:C	2.45	0.41
40:Ga:256:THR:H	40:Ga:256:THR:HG1	1.64	0.41
44:Ka:128:VAL:HG12	44:Ka:129:ARG:O	2.21	0.41
48:Oa:92:GLU:OE1	48:Oa:92:GLU:N	2.48	0.41
61:K:10:VAL:HG12	61:K:11:ALA:N	2.36	0.41
61:K:97:SER:N	61:K:100:THR:OG1	2.53	0.41
65:O:29:ALA:HB3	65:O:60:TRP:CH2	2.55	0.41
1:2b:224:C:HO2'	1:2b:225:A:P	2.39	0.41
1:2b:589:C:OP1	31:eb:42:ARG:NH1	2.50	0.41
1:2b:1162:C:C2'	1:2b:1163:A:H5'	2.51	0.41
1:2b:1524:A:O3'	21:Tb:93:HIS:ND1	2.53	0.41
1:2b:1675:C:C2'	1:2b:1676:U:O5'	2.69	0.41
3:Ba:71:ALA:N	3:Ba:79:HIS:O	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ba:140:ILE:HG22	3:Ba:212:VAL:O	2.20	0.41
8:Fb:199:ILE:O	8:Fb:203:LYS:NZ	2.53	0.41
10:Hb:144:VAL:HG23	10:Hb:145:GLY:N	2.36	0.41
29:bb:46:VAL:HG12	29:bb:47:PHE:O	2.20	0.41
35:4b:7:G:N2	40:Dy:70:THR:O	2.47	0.41
38:By:135:ALA:O	38:By:139:GLN:NE2	2.52	0.41
40:Dy:115:LEU:HD22	40:Dy:115:LEU:N	2.36	0.41
42:Fy:168:ILE:HD12	42:Fy:168:ILE:H	1.86	0.41
45:Iy:29:SER:HG	45:Iy:31:ILE:H	1.66	0.41
45:Iy:200:LEU:HD12	45:Iy:213:PHE:HB2	2.02	0.41
57:Vy:29:SER:H	57:Vy:29:SER:HG	1.62	0.41
59:Xy:24:LEU:HD13	78:1b:2585:G:C6	2.56	0.41
60:Yy:39:LEU:HD11	60:Yy:107:THR:CA	2.50	0.41
61:Zy:116:LYS:O	61:Zy:120:GLU:N	2.43	0.41
66:ey:96:ILE:HG21	66:ey:105:ARG:CZ	2.51	0.41
78:1b:636:C:O2	78:1b:2377:G:O2'	2.19	0.41
78:1b:688:G:C4	78:1b:690:A:C8	3.09	0.41
78:1b:1498:A:O2'	78:1b:1499:C:H5'	2.21	0.41
78:1b:1570:U:O2'	78:1b:1571:A:OP2	2.38	0.41
78:1b:2407:C:C2	78:1b:2815:G:N2	2.88	0.41
78:1b:2754:G:HO2'	78:1b:2755:C:P	2.40	0.41
78:1b:3061:G:N1	78:1b:3083:G:C6	2.88	0.41
1:a:748:U:O2	1:a:802:G:C2	2.74	0.41
1:a:1598:U:H2'	1:a:1599:C:O4'	2.20	0.41
2:b:21:ASN:HB3	2:b:24:LEU:HD13	2.02	0.41
3:c:127:VAL:HG22	3:c:128:LYS:N	2.36	0.41
5:d:113:LEU:HD23	5:d:113:LEU:C	2.45	0.41
7:f:19:LEU:HD11	7:f:108:ARG:NH2	2.35	0.41
8:g:37:GLN:HB3	18:r:53:LEU:HD22	2.03	0.41
9:h:32:ILE:HD12	9:h:64:LYS:C	2.45	0.41
10:i:77:LEU:O	10:i:81:LEU:HD23	2.21	0.41
13:l:21:VAL:HG12	13:l:23:ALA:H	1.86	0.41
21:u:9:VAL:HG21	21:u:136:ALA:HB1	2.02	0.41
78:Aa:665:A:H2'	78:Aa:666:A:O4'	2.21	0.41
78:Aa:853:G:H2'	78:Aa:854:G:O4'	2.21	0.41
78:Aa:1063:G:H2'	78:Aa:1097:G:N2	2.35	0.41
78:Aa:1321:G:C1'	54:D:115:ARG:HE	2.34	0.41
78:Aa:1874:A:OP1	53:C:17:VAL:HG22	2.21	0.41
78:Aa:1919:G:H21	78:Aa:1933:A:N6	2.15	0.41
78:Aa:3284:G:H2'	78:Aa:3285:C:O4'	2.21	0.41
44:Ka:104:VAL:HG22	44:Ka:105:GLU:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:La:146:ASP:OD1	45:La:146:ASP:N	2.53	0.41
70:T:63:ASN:O	70:T:65:GLY:N	2.54	0.41
1:2b:19:A:H2'	1:2b:20:G:O4'	2.21	0.41
1:2b:160:C:H2'	1:2b:161:U:C5'	2.51	0.41
1:2b:360:A:O2'	1:2b:361:C:O5'	2.35	0.41
1:2b:424:C:N3	1:2b:429:G:N1	2.69	0.41
1:2b:427:C:O4'	1:2b:459:G:O2'	2.39	0.41
1:2b:541:A:O2'	1:2b:542:A:OP1	2.38	0.41
1:2b:778:G:H22	26:Yb:10:ARG:CZ	2.34	0.41
1:2b:1132:A:H2'	1:2b:1133:A:O4'	2.21	0.41
1:2b:1245:G:N1	1:2b:1249:U:O4	2.54	0.41
1:2b:1312:A:H2'	1:2b:1313:A:O4'	2.21	0.41
1:2b:1556:A:O2'	1:2b:1557:U:P	2.79	0.41
2:Ab:14:ALA:HA	2:Ab:17:LEU:HD12	2.03	0.41
2:Ab:201:LEU:O	2:Ab:203:PHE:N	2.51	0.41
6:Db:85:VAL:C	6:Db:86:LEU:HD12	2.46	0.41
8:Fb:117:THR:O	8:Fb:120:ILE:N	2.52	0.41
8:Fb:123:VAL:HG23	8:Fb:124:LEU:N	2.36	0.41
8:Fb:166:ARG:NE	8:Fb:170:GLN:OE1	2.42	0.41
10:Hb:37:GLU:C	10:Hb:38:LEU:HD22	2.46	0.41
11:Ib:7:SER:OG	11:Ib:18:ARG:NH2	2.52	0.41
11:Ib:136:SER:O	11:Ib:139:ALA:N	2.54	0.41
15:Mb:50:LYS:HZ2	15:Mb:54:ARG:HH21	1.69	0.41
15:Mb:94:ALA:HB1	15:Mb:118:ALA:C	2.45	0.41
21:Tb:117:SER:HA	21:Tb:123:ARG:HE	1.85	0.41
28:ab:88:SER:OG	28:ab:91:ASP:OD1	2.28	0.41
32:fb:132:LEU:HD22	32:fb:139:LEU:O	2.20	0.41
33:gb:91:LEU:HD12	33:gb:92:TRP:H	1.85	0.41
35:4b:6:C:O2'	40:Dy:72:ASP:OD2	2.32	0.41
35:4b:28:C:OP2	40:Dy:57:ASN:ND2	2.53	0.41
38:By:220:VAL:O	38:By:334:ARG:NH1	2.42	0.41
38:By:244:ARG:NH2	78:1b:2948:C:P	2.94	0.41
38:By:308:MET:HE2	78:1b:3329:U:H5''	2.03	0.41
38:By:339:ARG:HG2	38:By:340:LYS:O	2.21	0.41
46:Jy:71:VAL:HG12	46:Jy:72:ARG:N	2.36	0.41
47:Ly:3:ILE:HG13	62:ay:34:MET:HA	2.03	0.41
47:Ly:153:ASP:OD1	47:Ly:154:VAL:N	2.43	0.41
49:Ny:41:ARG:NH1	78:1b:147:U:O2'	2.54	0.41
49:Ny:139:HIS:O	49:Ny:142:ILE:N	2.48	0.41
51:Py:182:ILE:HD11	78:1b:3217:C:N1	2.35	0.41
55:Ty:100:LYS:NZ	78:1b:991:G:OP1	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:Vy:39:VAL:HG12	57:Vy:40:LYS:N	2.35	0.41
57:Vy:89:ASP:OD1	57:Vy:91:VAL:HG12	2.21	0.41
63:by:29:TYR:OH	78:1b:1087:G:OP1	2.21	0.41
65:dy:70:ARG:NH2	78:1b:3374:U:OP2	2.52	0.41
66:ey:28:VAL:HG12	66:ey:29:ALA:N	2.35	0.41
66:ey:73:THR:HG22	66:ey:74:PHE:N	2.35	0.41
73:lb:38:ASN:OD1	73:lb:39:ALA:N	2.54	0.41
73:lb:42:ARG:HH22	78:1b:1494:U:P	2.41	0.41
76:ob:21:THR:O	76:ob:23:HIS:ND1	2.53	0.41
78:1b:726:G:H21	78:1b:744:A:H62	1.67	0.41
78:1b:1500:G:C2	78:1b:1517:G:C2	3.09	0.41
78:1b:1562:C:H2'	78:1b:1563:C:C6	2.56	0.41
78:1b:1779:C:H3'	78:1b:1780:G:C5'	2.51	0.41
78:1b:1903:U:O2'	78:1b:1905:G:N7	2.39	0.41
78:1b:2186:U:O2'	78:1b:2313:A:N3	2.53	0.41
78:1b:2340:U:C2	78:1b:2341:A:C8	3.09	0.41
78:1b:2412:G:H2'	78:1b:2413:A:O4'	2.21	0.41
78:1b:2631:U:OP1	78:1b:2757:U:O2'	2.33	0.41
78:1b:2668:U:O4	78:1b:2687:G:N2	2.54	0.41
78:1b:2728:G:O2'	78:1b:2729:U:OP2	2.39	0.41
78:1b:2770:G:H2'	78:1b:2771:U:C6	2.56	0.41
78:1b:2853:A:H2'	78:1b:2854:U:O4'	2.20	0.41
78:1b:2985:C:H2'	78:1b:2986:U:O4'	2.21	0.41
78:1b:3003:G:C2	78:1b:3004:C:C5	3.08	0.41
78:1b:3106:A:H2'	78:1b:3107:U:O4'	2.20	0.41
1:a:625:C:O2'	1:a:939:A:O2'	2.38	0.41
1:a:887:A:H2'	1:a:888:U:C6	2.56	0.41
1:a:918:U:C2	1:a:919:A:C8	3.09	0.41
1:a:969:C:P	1:a:1032:G:H21	2.43	0.41
1:a:987:G:P	37:Da:250:GLN:HE21	2.44	0.41
1:a:1216:C:O2	1:a:1446:A:N6	2.54	0.41
1:a:1366:U:O2'	21:u:7:ARG:NH1	2.44	0.41
1:a:1380:U:H2'	1:a:1381:U:O4'	2.21	0.41
1:a:1469:A:H2'	1:a:1470:C:C6	2.56	0.41
1:a:1719:A:HO2'	1:a:1720:G:P	2.42	0.41
5:d:134:LEU:HD23	5:d:134:LEU:C	2.46	0.41
8:g:72:HIS:O	18:r:47:LYS:NZ	2.39	0.41
10:i:62:VAL:O	10:i:64:VAL:HG23	2.21	0.41
10:i:122:HIS:CE1	10:i:177:THR:HG22	2.56	0.41
12:k:135:ALA:HA	12:k:140:ILE:HA	2.03	0.41
13:l:14:TYR:CD1	13:l:35:ILE:HD11	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:q:73:PRO:O	4:q:93:VAL:HG21	2.21	0.41
18:r:7:VAL:HG23	18:r:96:TYR:HE2	1.86	0.41
20:t:14:ILE:HD12	20:t:23:ASP:HA	2.02	0.41
20:t:121:ALA:O	20:t:125:ILE:HD12	2.21	0.41
33:7:154:VAL:O	33:7:155:ARG:NH1	2.46	0.41
78:Aa:29:C:H2'	78:Aa:30:G:O4'	2.21	0.41
78:Aa:190:U:C5	60:J:59:VAL:HG21	2.55	0.41
78:Aa:208:C:P	39:Fa:163:LYS:HZ1	2.43	0.41
78:Aa:295:A:N3	70:T:82:ARG:NH1	2.69	0.41
78:Aa:297:G:H2'	70:T:41:ARG:NH1	2.36	0.41
78:Aa:498:A:C6	78:Aa:616:G:C6	3.09	0.41
78:Aa:720:A:OP1	52:B:69:ARG:NH1	2.52	0.41
78:Aa:1136:A:C1'	78:Aa:2636:A:H62	2.34	0.41
78:Aa:1149:G:H3'	78:Aa:1150:A:H5''	2.03	0.41
78:Aa:1541:G:H2'	78:Aa:1542:G:O4'	2.21	0.41
78:Aa:1928:G:H2'	78:Aa:1929:G:O4'	2.21	0.41
78:Aa:2532:U:H2'	78:Aa:2533:G:O4'	2.20	0.41
78:Aa:2551:U:H3	37:Da:95:SER:HG	1.68	0.41
78:Aa:3012:A:H2'	78:Aa:3013:U:O4'	2.21	0.41
78:Aa:3109:G:H21	44:Ka:156:GLN:NE2	2.18	0.41
35:Bb:11:A:H4'	35:Bb:13:A:C4	2.56	0.41
37:Da:78:ALA:HB1	77:aa:65:ALA:CB	2.51	0.41
38:Ea:360:ASP:OD2	38:Ea:364:LYS:NZ	2.40	0.41
39:Fa:6:VAL:HG12	39:Fa:7:THR:N	2.36	0.41
40:Ga:153:THR:O	40:Ga:153:THR:HG22	2.20	0.41
41:Ha:148:GLU:OE1	41:Ha:151:LYS:NZ	2.48	0.41
44:Ka:14:GLU:OE1	44:Ka:14:GLU:N	2.50	0.41
44:Ka:90:MET:HE1	44:Ka:162:GLN:HB3	2.03	0.41
44:Ka:161:LEU:HD21	44:Ka:179:ILE:HG13	2.03	0.41
45:La:32:ARG:C	45:La:33:ILE:HD13	2.45	0.41
45:La:46:PHE:HB2	45:La:139:ARG:HE	1.84	0.41
47:Na:9:ILE:HG23	62:L:49:HIS:NE2	2.35	0.41
47:Na:170:LEU:HD11	62:L:147:LEU:CD2	2.51	0.41
50:Qa:3:VAL:O	50:Qa:3:VAL:HG22	2.21	0.41
50:Qa:8:VAL:O	50:Qa:118:VAL:HG22	2.20	0.41
51:A:22:LEU:HD23	51:A:90:PHE:HD2	1.86	0.41
52:B:31:LYS:O	52:B:34:THR:OG1	2.36	0.41
54:D:8:GLN:O	54:D:61:ILE:HD12	2.21	0.41
54:D:159:SER:OG	54:D:161:LYS:O	2.36	0.41
59:I:50:ALA:N	69:S:79:ASP:OD2	2.53	0.41
60:J:53:ASP:O	60:J:69:LYS:NZ	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:K:36:HIS:N	61:K:37:PRO:HD3	2.35	0.41
63:M:11:ASN:O	63:M:15:LYS:HG3	2.21	0.41
66:P:124:GLY:O	66:P:126:LEU:N	2.53	0.41
69:S:17:LEU:HD13	69:S:58:ILE:HG13	2.03	0.41
80:ba:87:VAL:HG11	80:ba:100:ILE:HD11	2.03	0.41
1:2b:92:A:OP2	1:2b:398:G:N1	2.47	0.41
1:2b:404:G:O2'	1:2b:405:C:O5'	2.21	0.41
1:2b:817:A:N1	1:2b:855:A:C2	2.89	0.41
19:Rb:24:LEU:HB3	19:Rb:34:LEU:HD11	2.03	0.41
20:Sb:99:HIS:HD2	20:Sb:101:LEU:HD21	1.86	0.41
26:Yb:8:ARG:NH2	26:Yb:26:ASP:OD2	2.53	0.41
26:Yb:55:VAL:HG23	26:Yb:75:VAL:HG23	2.03	0.41
28:ab:24:VAL:HG13	28:ab:25:ASN:N	2.36	0.41
31:eb:50:VAL:O	31:eb:50:VAL:HG13	2.20	0.41
32:fb:133:ALA:HB3	32:fb:140:TYR:HB3	2.02	0.41
36:3b:102:U:H2'	36:3b:103:G:C8	2.56	0.41
37:Ay:165:VAL:HG12	37:Ay:166:ILE:H	1.85	0.41
38:By:3:HIS:HB2	78:1b:2938:G:C8	2.55	0.41
39:Cy:77:VAL:HG12	39:Cy:78:GLY:O	2.21	0.41
39:Cy:145:ILE:HD13	39:Cy:145:ILE:HA	1.94	0.41
42:Fy:134:VAL:HG23	42:Fy:135:ALA:N	2.36	0.41
42:Fy:189:ILE:HG23	42:Fy:190:THR:N	2.36	0.41
44:Hy:47:LYS:HE3	44:Hy:50:ASN:HA	2.02	0.41
46:Jy:17:LEU:O	46:Jy:71:VAL:N	2.47	0.41
52:Qy:182:LYS:HE3	78:1b:2764:C:OP1	2.21	0.41
59:Xy:58:ASP:O	59:Xy:62:VAL:HG13	2.20	0.41
60:Yy:33:ALA:O	60:Yy:48:LEU:N	2.50	0.41
60:Yy:119:ILE:HG22	60:Yy:124:GLY:HA3	2.01	0.41
78:1b:594:U:OP2	78:1b:609:G:N2	2.54	0.41
78:1b:629:U:N3	78:1b:630:A:N7	2.69	0.41
78:1b:1359:C:O2'	78:1b:1360:C:H5'	2.21	0.41
78:1b:1534:A:C2'	78:1b:1535:A:H5'	2.50	0.41
78:1b:2656:A:N1	78:1b:2713:U:O4	2.50	0.41
78:1b:3363:U:N3	78:1b:3364:C:C5	2.89	0.41
78:1b:3375:A:O2'	78:1b:3378:C:OP2	2.33	0.41
1:a:324:U:OP1	14:m:133:LYS:NZ	2.50	0.41
1:a:968:U:H4'	1:a:1033:C:O2	2.21	0.41
1:a:1121:C:H2'	1:a:1122:G:O4'	2.21	0.41
1:a:1248:C:N4	1:a:1249:U:O4	2.54	0.41
1:a:1330:G:H2'	1:a:1331:A:O4'	2.21	0.41
1:a:1666:U:H2'	1:a:1667:A:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:d:59:HIS:CB	5:d:61:LEU:HD21	2.51	0.41
7:f:100:ARG:NH1	7:f:118:GLU:O	2.47	0.41
9:h:69:LEU:O	9:h:71:THR:N	2.50	0.41
9:h:113:ILE:CD1	9:h:124:LEU:HD22	2.51	0.41
12:k:31:ALA:HA	12:k:36:LEU:HD12	2.02	0.41
14:m:99:ARG:HH12	25:y:7:ARG:HA	1.86	0.41
18:r:6:SER:OG	18:r:7:VAL:N	2.54	0.41
21:u:73:VAL:HG12	21:u:77:ASN:HD21	1.86	0.41
22:v:44:ASN:OD1	22:v:48:HIS:NE2	2.54	0.41
22:v:68:ARG:NH2	22:v:76:SER:O	2.53	0.41
22:v:114:VAL:HG22	22:v:115:GLU:N	2.36	0.41
78:Aa:75:G:C5'	47:Na:58:VAL:HG13	2.51	0.41
78:Aa:421:G:O6	78:Aa:2383:C:O2'	2.25	0.41
78:Aa:985:U:O4'	42:Ia:101:LYS:HG2	2.20	0.41
78:Aa:1034:U:H2'	78:Aa:1035:G:O4'	2.21	0.41
78:Aa:1059:G:H2'	78:Aa:1060:U:O4'	2.21	0.41
78:Aa:1909:A:H2'	78:Aa:1910:A:O4'	2.21	0.41
78:Aa:2361:A:C2	78:Aa:2362:C:C4	3.09	0.41
78:Aa:2436:U:H4'	43:Ja:70:LYS:HD3	2.02	0.41
78:Aa:2769:A:H4'	76:Z:80:ARG:HB2	2.03	0.41
78:Aa:3034:C:C2	78:Aa:3035:A:C8	3.09	0.41
78:Aa:3252:G:H2'	78:Aa:3253:G:C1'	2.51	0.41
78:Aa:3331:U:H2'	78:Aa:3332:U:O4'	2.21	0.41
35:Bb:37:G:O2'	35:Bb:38:U:O4'	2.37	0.41
36:Ca:28:C:C2	36:Ca:29:U:C5	3.09	0.41
37:Da:112:ILE:CD1	77:aa:79:VAL:HG22	2.51	0.41
40:Ga:223:PHE:C	40:Ga:227:LEU:HD23	2.45	0.41
42:Ia:107:ARG:C	42:Ia:109:THR:HG23	2.46	0.41
51:A:9:THR:OG1	51:A:10:ASN:N	2.54	0.41
52:B:111:ARG:O	52:B:115:VAL:HG23	2.21	0.41
57:G:7:GLN:HG3	57:G:127:PRO:HG3	2.02	0.41
57:G:104:ASN:OD1	57:G:107:GLY:N	2.54	0.41
66:P:13:HIS:HE1	66:P:15:LYS:HB2	1.86	0.41
66:P:100:ILE:O	66:P:125:ARG:NH2	2.43	0.41
80:ba:63:ILE:CB	80:ba:77:LEU:HD21	2.51	0.41
1:2b:108:A:H2'	1:2b:109:G:O4'	2.21	0.40
1:2b:522:U:C4	1:2b:523:G:C6	3.08	0.40
1:2b:1219:A:H61	1:2b:1264:G:H1'	1.86	0.40
1:2b:1402:G:P	19:Rb:5:ARG:NH2	2.94	0.40
1:2b:1727:G:H2'	1:2b:1728:A:C8	2.56	0.40
7:Eb:208:VAL:O	7:Eb:219:VAL:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Fb:25:LEU:HD12	18:Qb:27:GLY:O	2.21	0.40
9:Gb:78:THR:OG1	9:Gb:79:LYS:N	2.51	0.40
11:Ib:55:TYR:O	11:Ib:177:GLY:N	2.54	0.40
12:Jb:172:VAL:HG13	12:Jb:173:ALA:N	2.36	0.40
19:Rb:117:LEU:O	19:Rb:119:LEU:HD12	2.21	0.40
37:Ay:223:SER:OG	78:1b:2244:A:O2'	2.33	0.40
42:Fy:208:SER:OG	42:Fy:243:MET:O	2.39	0.40
46:Jy:71:VAL:HG12	46:Jy:76:ALA:HB2	2.02	0.40
47:Ly:52:ASP:OD1	47:Ly:52:ASP:N	2.51	0.40
49:Ny:7:LEU:HD22	49:Ny:46:ASP:HB3	2.03	0.40
49:Ny:155:VAL:O	49:Ny:162:ARG:NH2	2.54	0.40
49:Ny:170:LYS:NZ	78:1b:289:A:OP2	2.53	0.40
52:Qy:24:VAL:HG13	52:Qy:25:TYR:CD1	2.56	0.40
54:Sy:71:LYS:O	54:Sy:97:VAL:HG23	2.21	0.40
64:cy:98:SER:OG	64:cy:99:ASP:N	2.52	0.40
65:dy:12:TYR:OH	65:dy:44:MET:HE2	2.20	0.40
67:fy:19:SER:OG	67:fy:20:LYS:N	2.52	0.40
70:ib:53:TYR:O	70:ib:57:LEU:HD23	2.21	0.40
78:1b:312:C:H2'	78:1b:313:A:O4'	2.20	0.40
78:1b:446:U:H2'	78:1b:448:U:C5	2.56	0.40
78:1b:639:G:C6	78:1b:640:U:N3	2.89	0.40
78:1b:993:G:N2	78:1b:1057:A:N1	2.69	0.40
78:1b:1047:A:N3	78:1b:2633:U:O2'	2.53	0.40
78:1b:1685:C:H2'	78:1b:1686:U:O4'	2.21	0.40
78:1b:1921:A:OP2	78:1b:1930:A:N6	2.54	0.40
78:1b:2156:C:O2'	78:1b:2157:G:H5'	2.21	0.40
78:1b:2307:G:O2'	78:1b:2310:U:OP2	2.38	0.40
78:1b:2511:A:C2	78:1b:2512:C:C5	3.09	0.40
78:1b:2747:A:O2'	78:1b:2748:A:O4'	2.38	0.40
78:1b:3281:U:H2'	78:1b:3282:U:O4'	2.20	0.40
78:1b:3358:U:C2	78:1b:3359:A:C8	3.09	0.40
1:a:10:G:O2'	5:d:87:GLN:OE1	2.16	0.40
1:a:130:C:HO2'	1:a:131:C:P	2.41	0.40
1:a:564:G:N1	1:a:580:A:OP2	2.41	0.40
1:a:865:A:H2'	1:a:866:G:O4'	2.21	0.40
1:a:1117:U:C2	1:a:1118:G:C8	3.10	0.40
1:a:1203:A:C5	1:a:1555:A:N1	2.89	0.40
1:a:1524:A:H2'	1:a:1525:A:C8	2.56	0.40
1:a:1597:A:N1	30:4:13:ARG:CA	2.83	0.40
1:a:1620:C:HO2'	1:a:1621:U:P	2.44	0.40
12:k:72:GLU:OE1	12:k:72:GLU:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:o:63:ALA:HA	16:o:66:ILE:HG12	2.03	0.40
27:0:51:LEU:CD2	27:0:83:LEU:HD21	2.49	0.40
28:1:87:ARG:HB3	28:1:91:ASP:CB	2.52	0.40
78:Aa:409:A:H1'	78:Aa:655:C:O4'	2.21	0.40
78:Aa:821:U:O2'	78:Aa:912:G:OP1	2.29	0.40
78:Aa:1138:U:C2	78:Aa:1139:G:C8	3.09	0.40
78:Aa:1410:U:O2'	66:P:75:LEU:HD12	2.21	0.40
78:Aa:1562:C:H2'	78:Aa:1563:C:C6	2.57	0.40
78:Aa:1879:A:H2'	78:Aa:1879:A:N3	2.36	0.40
78:Aa:1908:A:H2'	78:Aa:1909:A:O4'	2.21	0.40
78:Aa:2674:A:H2'	78:Aa:2675:C:O4'	2.21	0.40
78:Aa:3186:A:N6	44:Ka:58:HIS:O	2.42	0.40
35:Bb:4:U:H4'	35:Bb:26:C:C4'	2.51	0.40
35:Bb:29:C:O4'	46:Ma:9:MET:HE1	2.21	0.40
38:Ea:161:LEU:HD12	38:Ea:161:LEU:N	2.36	0.40
39:Fa:212:ASP:OD1	39:Fa:213:ASN:N	2.54	0.40
39:Fa:334:PHE:O	39:Fa:338:LYS:HA	2.21	0.40
40:Ga:132:THR:HG21	40:Ga:170:GLY:CA	2.49	0.40
47:Na:62:THR:O	47:Na:65:TYR:N	2.53	0.40
50:Qa:36:VAL:HG21	50:Qa:108:ILE:HD12	2.03	0.40
53:C:93:VAL:HG12	53:C:97:ARG:HD2	2.02	0.40
65:O:47:ASP:OD2	65:O:86:LYS:NZ	2.49	0.40
66:P:85:LEU:HD11	66:P:92:TYR:HB2	2.03	0.40
76:Z:102:GLN:NE2	76:Z:103:ALA:O	2.45	0.40
1:2b:224:C:O2'	1:2b:225:A:P	2.79	0.40
1:2b:815:G:H3'	1:2b:816:G:H5'	2.03	0.40
1:2b:1553:G:O6	4:Pb:43:ARG:NE	2.49	0.40
3:Ba:227:ALA:O	3:Ba:230:ALA:HB3	2.22	0.40
7:Eb:95:THR:OG1	7:Eb:97:GLU:OE2	2.36	0.40
11:Ib:105:ASP:O	11:Ib:106:ALA:HB3	2.20	0.40
11:Ib:155:SER:O	11:Ib:158:SER:OG	2.35	0.40
13:Kb:55:VAL:HA	13:Kb:68:LEU:HA	2.02	0.40
14:Lb:58:CYS:SG	14:Lb:60:PHE:N	2.89	0.40
35:4b:47:C:H2'	35:4b:48:U:C6	2.56	0.40
35:4b:49:G:C4	40:Dy:58:LYS:HE2	2.56	0.40
36:3b:23:U:C6	60:Yy:17:LYS:HD2	2.57	0.40
39:Cy:303:GLY:N	78:1b:1347:U:OP1	2.53	0.40
41:Ey:17:ALA:HB3	78:1b:592:A:H5'	2.03	0.40
41:Ey:89:THR:HG22	41:Ey:90:LYS:N	2.36	0.40
42:Fy:138:TYR:OH	42:Fy:231:ASN:ND2	2.54	0.40
42:Fy:148:VAL:HG12	42:Fy:181:ILE:HD11	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:Ny:112:ASN:C	49:Ny:113:LEU:HD22	2.46	0.40
50:Oy:20[A]:ALA:O	50:Oy:24[A]:ALA:N	2.43	0.40
51:Py:132:ALA:HB1	51:Py:133:HIS:ND1	2.36	0.40
74:mb:103:LEU:HD12	74:mb:121:LEU:HD22	2.03	0.40
78:1b:164:A:H2'	78:1b:165:A:C1'	2.51	0.40
78:1b:532:A:H2'	78:1b:533:A:C8	2.56	0.40
78:1b:700:C:H2'	78:1b:701:G:H8	1.86	0.40
78:1b:1539:A:H2'	78:1b:1540:U:H5'	2.02	0.40
78:1b:1575:A:H3'	78:1b:1576:G:O4'	2.22	0.40
78:1b:1654:A:H2'	78:1b:1655:G:H5'	2.03	0.40
78:1b:2526:C:O5'	78:1b:2526:C:H6	2.04	0.40
1:a:95:G:HO2'	1:a:460:A:HO2'	1.66	0.40
1:a:191:C:O2'	1:a:192:U:O5'	2.39	0.40
1:a:640:U:H2'	1:a:641:G:O4'	2.21	0.40
1:a:768:C:H1'	12:k:143:ILE:HG21	2.02	0.40
1:a:1085:G:N1	1:a:1089:U:O4	2.54	0.40
1:a:1548:G:N1	1:a:1564:U:C2	2.89	0.40
1:a:1739:C:H2'	1:a:1740:A:C8	2.57	0.40
18:r:4:VAL:O	18:r:6:SER:N	2.55	0.40
22:v:24:ILE:N	22:v:24:ILE:HD12	2.37	0.40
24:x:94:LEU:HD11	24:x:102:VAL:HG23	2.02	0.40
31:5:49:LEU:O	31:5:50:VAL:HG13	2.21	0.40
33:7:70:ASP:OD1	33:7:71:CYS:N	2.53	0.40
78:Aa:34:A:N6	78:Aa:51:A:C4	2.89	0.40
78:Aa:35:A:H1'	78:Aa:809:G:H21	1.86	0.40
78:Aa:525:C:OP2	48:Oa:77:ARG:NH2	2.52	0.40
78:Aa:911:C:OP2	37:Da:9:ARG:NE	2.53	0.40
78:Aa:1560:G:C6	78:Aa:1561:G:C6	3.10	0.40
78:Aa:2561:A:C2	78:Aa:2562:A:C5	3.09	0.40
78:Aa:3122:A:C2'	78:Aa:3123:A:H5'	2.52	0.40
78:Aa:3232:G:C2	78:Aa:3255:U:O2	2.73	0.40
35:Bb:100:C:O5'	54:D:52:LYS:NZ	2.48	0.40
36:Ca:9:A:H2'	36:Ca:10:A:H8	1.86	0.40
39:Fa:133:SER:OG	39:Fa:134:LEU:N	2.54	0.40
40:Ga:121:GLY:HA2	40:Ga:170:GLY:HA2	2.03	0.40
40:Ga:265:TYR:O	40:Ga:269:SER:CB	2.68	0.40
41:Ha:100:LYS:NZ	41:Ha:137:ASP:OD2	2.52	0.40
41:Ha:155:LEU:HD21	41:Ha:159:LEU:HD11	2.03	0.40
44:Ka:3:TYR:O	44:Ka:60:GLY:N	2.49	0.40
50:Qa:119:VAL:HG12	50:Qa:120:VAL:N	2.36	0.40
51:A:57:ALA:HB2	51:A:72:GLN:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:E:40:VAL:HG22	55:E:62:GLY:O	2.22	0.40
65:O:37:LYS:HB3	65:O:49:VAL:HG21	2.03	0.40
69:S:44:ILE:HG23	69:S:45:LYS:N	2.36	0.40
1:2b:331:A:N7	11:Ib:172:ARG:NH2	2.70	0.40
1:2b:448:C:H5'	7:Eb:29:PRO:HG3	2.04	0.40
1:2b:545:A:O4'	1:2b:594:A:N6	2.54	0.40
1:2b:928:U:O2'	1:2b:945:U:H5'	2.22	0.40
2:Ab:110:TYR:CD1	2:Ab:111:ILE:HG23	2.56	0.40
3:Ba:114:VAL:HG22	3:Ba:142:PHE:CZ	2.56	0.40
6:Db:105:MET:SD	6:Db:122:VAL:HG21	2.61	0.40
9:Gb:135:PRO:HB2	9:Gb:141:ILE:CG1	2.52	0.40
19:Rb:20:TYR:CE2	19:Rb:38:ILE:HD11	2.57	0.40
26:Yb:96:LEU:HD12	26:Yb:96:LEU:N	2.36	0.40
33:gb:208:GLY:O	33:gb:225:LEU:HD21	2.21	0.40
35:4b:45:A:C4	35:4b:46:A:C8	3.10	0.40
35:4b:68:C:O3'	55:Ty:20:ARG:NH2	2.47	0.40
35:4b:116:C:C2	35:4b:117:A:C8	3.08	0.40
52:Qy:38:ARG:NH2	78:1b:1347:U:H3'	2.37	0.40
55:Ty:90:ASN:C	55:Ty:91:LEU:HD23	2.47	0.40
61:Zy:13:VAL:HG22	61:Zy:80:LEU:CD2	2.52	0.40
65:dy:8:VAL:HG22	65:dy:9:THR:N	2.35	0.40
68:gy:72:VAL:HG23	68:gy:74:ARG:H	1.86	0.40
71:jb:44:THR:HG22	71:jb:45:ARG:N	2.37	0.40
71:jb:59:THR:HG22	71:jb:60:GLY:N	2.35	0.40
78:1b:313:A:C6	78:1b:314:U:C4	3.09	0.40
78:1b:1637:A:H2'	78:1b:1638:A:C8	2.57	0.40
78:1b:1680:G:O6	78:1b:1688:U:O4	2.39	0.40
78:1b:2744:U:H2'	78:1b:2745:G:O4'	2.21	0.40
78:1b:2946:A:H5''	78:1b:2947:G:H5'	2.03	0.40
78:1b:3163:A:C6	78:1b:3164:C:N4	2.89	0.40
78:1b:3210:A:C6	78:1b:3211:C:C4	3.09	0.40
1:a:36:C:H42	1:a:472:U:H3	1.68	0.40
1:a:445:A:C2	1:a:446:A:C8	3.10	0.40
1:a:1099:U:O4	5:d:168:ARG:NH1	2.54	0.40
1:a:1239:U:H2'	1:a:1240:U:C1'	2.51	0.40
1:a:1316:G:P	19:s:6:THR:HG1	2.43	0.40
6:e:49:ILE:HG23	6:e:89:GLU:OE1	2.21	0.40
9:h:68:LEU:O	9:h:69:LEU:HB2	2.22	0.40
10:i:23:ALA:HB2	10:i:84:LYS:CE	2.52	0.40
10:i:103:SER:OG	10:i:104:ARG:N	2.54	0.40
11:j:147:ALA:O	11:j:148:ALA:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:r:9:THR:HG21	18:r:88:GLY:HA2	2.04	0.40
21:u:86:ARG:CZ	21:u:89:ARG:HE	2.34	0.40
22:v:33:GLN:O	22:v:37:VAL:HG23	2.21	0.40
23:w:85:TYR:O	29:2:6:ASP:N	2.47	0.40
24:x:2:THR:OG1	24:x:3:ARG:N	2.52	0.40
27:0:80:LEU:HD23	27:0:89:ILE:CD1	2.52	0.40
30:4:10:HIS:CG	30:4:11:PRO:CD	3.04	0.40
33:7:46:LYS:HB2	33:7:58:VAL:HG11	2.03	0.40
33:7:187:GLN:OE1	33:7:187:GLN:N	2.54	0.40
78:Aa:88:A:C2	78:Aa:99:A:C5	3.08	0.40
78:Aa:506:U:OP2	39:Fa:319:LYS:NZ	2.37	0.40
78:Aa:932:U:O2	78:Aa:932:U:O2'	2.30	0.40
78:Aa:994:G:N3	78:Aa:1053:A:N1	2.68	0.40
78:Aa:1193:A:OP2	50:Qa:49:ARG:NH2	2.54	0.40
78:Aa:1203:A:OP2	78:Aa:1301:A:N6	2.48	0.40
78:Aa:2437:G:H2'	78:Aa:2438:A:O4'	2.22	0.40
78:Aa:2553:U:O4'	64:N:50:VAL:HG11	2.22	0.40
78:Aa:2703:A:C6	40:Ga:150:LEU:HD11	2.56	0.40
37:Da:104:LEU:HD23	37:Da:146:THR:HG21	2.03	0.40
37:Da:224:THR:HA	37:Da:237:LEU:O	2.22	0.40
47:Na:62:THR:O	47:Na:64:LYS:N	2.55	0.40
49:Pa:174:ILE:O	49:Pa:174:ILE:HG22	2.21	0.40
50:Qa:120:VAL:HG22	54:D:163:PHE:HD1	1.87	0.40
52:B:101:VAL:C	52:B:122:ILE:HD12	2.47	0.40
53:C:130:ASN:O	53:C:130:ASN:ND2	2.54	0.40
57:G:13:ILE:HD11	57:G:85:TRP:CE2	2.55	0.40
61:K:4:PHE:O	61:K:5:LEU:HD23	2.22	0.40
61:K:26:VAL:CB	61:K:96:VAL:HG11	2.52	0.40
61:K:28:PRO:C	61:K:77:TYR:HH	2.26	0.40
68:R:82:ALA:HA	68:R:85:VAL:HG22	2.04	0.40
80:ba:48:ARG:NE	80:ba:48:ARG:O	2.54	0.40
1:2b:137:U:O2'	1:2b:138:A:O5'	2.40	0.40
1:2b:386:G:OP2	11:Ib:25:ARG:NH2	2.55	0.40
1:2b:940:A:H2'	1:2b:941:A:O4'	2.22	0.40
1:2b:1031:U:H3'	1:2b:1032:G:H5'	2.04	0.40
1:2b:1314:U:O2'	1:2b:1315:U:OP2	2.30	0.40
1:2b:1586:A:C4	1:2b:1611:A:C6	3.10	0.40
5:Cb:165:VAL:CG1	5:Cb:167:VAL:HG23	2.51	0.40
8:Fb:128:ASN:O	8:Fb:131:GLN:N	2.54	0.40
9:Gb:71:THR:HG22	9:Gb:72:ARG:N	2.37	0.40
14:Lb:21:ASN:OD1	14:Lb:21:ASN:N	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:Nb:75:LEU:O	16:Nb:80:LEU:N	2.43	0.40
22:Ub:92:ASP:O	22:Ub:93:LEU:HD22	2.21	0.40
35:4b:24:A:H2'	35:4b:25:G:O4'	2.21	0.40
36:3b:5:U:P	51:Py:62:ARG:HE	2.44	0.40
36:3b:70:G:HO2'	36:3b:87:G:H22	1.68	0.40
37:Ay:226:SER:OG	37:Ay:228:GLY:N	2.51	0.40
38:By:53:MET:HA	38:By:77:THR:HA	2.03	0.40
38:By:180:GLU:N	78:1b:3003:G:OP1	2.51	0.40
39:Cy:11:LEU:HD21	39:Cy:156:LEU:HB2	2.04	0.40
41:Ey:130:ILE:HG22	41:Ey:131:LYS:N	2.37	0.40
41:Ey:136:GLU:O	41:Ey:140:VAL:HG23	2.21	0.40
44:Hy:146:LEU:C	44:Hy:147:SER:HG	2.28	0.40
48:My:70:PHE:CZ	48:My:72:LEU:HD11	2.56	0.40
52:Qy:134:GLY:HA2	52:Qy:137:THR:HG21	2.04	0.40
54:Sy:2:ALA:HA	78:1b:1324:U:H5'	2.03	0.40
54:Sy:162:THR:HG23	54:Sy:163:PHE:N	2.36	0.40
56:Uy:19:VAL:HG12	56:Uy:105:LEU:HD13	2.03	0.40
64:cy:43:ILE:HB	64:cy:90:VAL:HG12	2.04	0.40
65:dy:98:VAL:HG22	65:dy:99:ALA:N	2.37	0.40
67:fy:71:VAL:HG12	67:fy:72:THR:N	2.36	0.40
78:1b:267:G:C6	78:1b:319:A:C8	3.09	0.40
78:1b:675:C:H2'	78:1b:676:G:C5'	2.52	0.40
78:1b:824:C:C2'	78:1b:825:U:H5'	2.52	0.40
78:1b:1551:C:H2'	78:1b:1552:G:O4'	2.22	0.40
78:1b:2222:A:H2'	78:1b:2223:A:C8	2.57	0.40
78:1b:3005:A:O2'	78:1b:3006:A:OP2	2.31	0.40
78:1b:3034:C:C2	78:1b:3035:A:C8	3.10	0.40
1:a:79:C:H2'	1:a:80:A:O4'	2.21	0.40
1:a:127:G:C6	9:h:195:VAL:HG13	2.57	0.40
1:a:200:A:H2'	1:a:201:G:O4'	2.22	0.40
1:a:448:C:OP2	7:f:49:ARG:NH2	2.55	0.40
1:a:1058:U:C4	1:a:1061:A:N1	2.90	0.40
1:a:1213:G:O2'	1:a:1244:A:N6	2.37	0.40
1:a:1220:C:O4'	13:l:51:SER:OG	2.40	0.40
1:a:1489:U:HO2'	1:a:1490:C:P	2.45	0.40
1:a:1650:U:C2	1:a:1651:A:C8	3.09	0.40
2:b:41:ARG:NH2	2:b:42:PRO:O	2.54	0.40
6:e:43:PRO:O	6:e:44:THR:OG1	2.32	0.40
9:h:44:GLU:O	9:h:119:GLN:NE2	2.55	0.40
9:h:132:ARG:HG2	9:h:133:LEU:HD12	2.03	0.40
9:h:145:PHE:HB3	9:h:147:LEU:HD21	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:k:73:GLY:O	12:k:77:ILE:HD12	2.22	0.40
15:n:63:VAL:HG11	15:n:66:VAL:CG1	2.52	0.40
16:o:148:ALA:HA	64:N:79:THR:HG23	2.03	0.40
17:p:21:ALA:O	17:p:95:GLY:N	2.52	0.40
18:r:22:VAL:HG21	18:r:88:GLY:C	2.46	0.40
23:w:10:GLU:O	23:w:12:TYR:N	2.55	0.40
27:0:99:ALA:HB1	27:0:101:TYR:CE1	2.56	0.40
33:7:214:ALA:HB2	33:7:220:ILE:HA	2.03	0.40
78:Aa:40:A:C2	62:L:40:HIS:CE1	3.09	0.40
78:Aa:78:U:N3	78:Aa:324:A:N6	2.68	0.40
78:Aa:360:G:OP1	71:U:25:ARG:NH1	2.54	0.40
78:Aa:687:U:OP2	47:Na:36:ARG:NH2	2.54	0.40
78:Aa:798:G:H2'	78:Aa:799:G:O4'	2.21	0.40
78:Aa:1316:C:OP2	50:Qa:133:ARG:NE	2.48	0.40
78:Aa:1491:A:H62	73:W:2:ALA:HA	1.86	0.40
78:Aa:1687:U:OP2	56:F:42:LYS:NZ	2.37	0.40
78:Aa:1750:A:OP1	72:V:44:LYS:NZ	2.53	0.40
78:Aa:2181:C:H5''	37:Da:193:ARG:NH2	2.37	0.40
78:Aa:3107:U:OP2	74:X:112:LYS:NZ	2.49	0.40
78:Aa:3152:U:OP2	78:Aa:3395:G:N2	2.53	0.40
78:Aa:3170:A:H2'	78:Aa:3171:U:C6	2.57	0.40
78:Aa:3369:G:C5	38:Ea:380:MET:HE3	2.56	0.40
35:Bb:50:U:O2'	40:Ga:221:GLU:O	2.30	0.40
36:Ca:63:G:C2	36:Ca:64:U:C5	3.09	0.40
42:Ia:239:LEU:O	42:Ia:239:LEU:HD23	2.21	0.40
43:Ja:46:LEU:N	59:I:27:ARG:O	2.54	0.40
45:La:65:LEU:HD23	45:La:159:PHE:CE1	2.57	0.40
45:La:79:VAL:HG11	45:La:147:VAL:HG13	2.03	0.40
45:La:193:ASP:N	45:La:196:PHE:O	2.47	0.40
51:A:78:VAL:HG22	51:A:79:THR:H	1.85	0.40
55:E:29:THR:HG21	55:E:94:GLU:HA	2.04	0.40
56:F:27:VAL:HG21	56:F:107:PHE:CE1	2.56	0.40
61:K:64:LYS:HA	61:K:67:LYS:HG2	2.03	0.40
62:L:4:ARG:HG3	62:L:5:PHE:CD1	2.56	0.40
62:L:149:ALA:HB2	70:T:7:ILE:C	2.46	0.40
65:O:23:VAL:HG11	65:O:28:ARG:HA	2.04	0.40
68:R:47:CYS:SG	68:R:49:SER:N	2.83	0.40
71:U:37:CYS:HB2	71:U:44:THR:HG23	2.03	0.40
72:V:14:LEU:HD12	72:V:17:ARG:HD2	2.04	0.40
73:W:23:LEU:HD23	73:W:24:PRO:N	2.37	0.40
73:W:27:ILE:HG22	73:W:33:ASN:HD21	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:Z:69:VAL:HG13	76:Z:83:LEU:O	2.21	0.40
77:aa:85:ARG:CZ	77:aa:86:LEU:HD21	2.50	0.40
80:ba:42:ARG:HE	80:ba:51:VAL:CG2	2.34	0.40
1:2b:555:A:O2'	1:2b:556:A:O5'	2.40	0.40
1:2b:617:U:O4'	1:2b:1031:U:C2	2.75	0.40
1:2b:803:A:O2'	1:2b:804:A:P	2.80	0.40
1:2b:1465:C:C5	1:2b:1466:G:C8	3.09	0.40
1:2b:1633:A:O2'	1:2b:1634:C:P	2.80	0.40
1:2b:1791:A:H3'	28:ab:8:ASN:HB3	2.03	0.40
7:Eb:24:SER:O	7:Eb:24:SER:OG	2.37	0.40
7:Eb:181:VAL:HA	7:Eb:227:VAL:HA	2.02	0.40
8:Fb:33:VAL:HG13	8:Fb:34:GLN:N	2.37	0.40
12:Jb:58:ASP:OD1	12:Jb:59:LEU:N	2.55	0.40
21:Tb:25:GLN:HG2	21:Tb:27:LYS:CG	2.51	0.40
24:Wb:57:ARG:CZ	29:bb:26:GLN:HE21	2.35	0.40
26:Yb:18:LEU:HD12	26:Yb:20:ARG:NE	2.37	0.40
29:bb:67:THR:HG22	29:bb:68:GLY:N	2.36	0.40
32:fb:139:LEU:HD12	32:fb:139:LEU:N	2.36	0.40
36:3b:60:U:OP1	59:Xy:54:TYR:OH	2.35	0.40
37:Ay:70:ARG:NH1	37:Ay:70:ARG:HA	2.37	0.40
38:By:127:LYS:O	38:By:129:ALA:N	2.55	0.40
39:Cy:58:HIS:CE1	39:Cy:98:ARG:HG3	2.57	0.40
39:Cy:356:THR:O	39:Cy:359:LEU:HB3	2.22	0.40
40:Dy:74:VAL:C	40:Dy:75:LEU:HD23	2.46	0.40
40:Dy:154:THR:HG22	40:Dy:155:THR:O	2.21	0.40
40:Dy:236:LEU:HA	40:Dy:239:ILE:HD11	2.03	0.40
44:Hy:27:VAL:HG22	44:Hy:28:VAL:N	2.35	0.40
48:My:108:ARG:HH11	50:Oy:197[A]:LEU:HD23	1.86	0.40
52:Qy:32:LEU:O	52:Qy:35:PHE:N	2.48	0.40
52:Qy:181:SER:OG	78:1b:2789:U:OP1	2.37	0.40
73:1b:42:ARG:NH2	78:1b:1494:U:OP1	2.41	0.40
78:1b:371:G:N1	78:1b:374:A:OP2	2.50	0.40
78:1b:830:A:H2'	78:1b:831:G:O4'	2.22	0.40
78:1b:1098:A:C4	78:1b:1099:A:C8	3.10	0.40
78:1b:1165:A:H2'	78:1b:1166:G:O4'	2.22	0.40
78:1b:3070:A:C5	78:1b:3071:U:C5	3.09	0.40
1:a:138:A:N6	1:a:266:A:H61	2.20	0.40
1:a:885:G:H21	17:p:123:SER:CB	2.34	0.40
1:a:1092:A:C2	1:a:1094:G:C5	3.10	0.40
1:a:1555:A:C6	30:4:12:ARG:HA	2.56	0.40
1:a:1586:A:OP1	18:r:135:ARG:N	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:f:104:ASP:OD1	7:f:110:ALA:HB2	2.22	0.40
7:f:105:VAL:HG21	7:f:245:LYS:N	2.36	0.40
18:r:69:VAL:HG11	18:r:81:ILE:HG23	2.02	0.40
78:Aa:655:C:H2'	78:Aa:656:A:H8	1.86	0.40
78:Aa:733:G:O2'	78:Aa:735:A:N7	2.50	0.40
78:Aa:1336:U:H2'	78:Aa:1337:A:H8	1.87	0.40
78:Aa:1448:U:OP2	78:Aa:2355:G:N1	2.52	0.40
78:Aa:2650:U:O2'	78:Aa:2651:G:O4'	2.39	0.40
78:Aa:2960:C:H2'	78:Aa:2961:G:C8	2.57	0.40
78:Aa:3006:A:OP2	50:Qa:148:LYS:NZ	2.45	0.40
78:Aa:3150:A:HO2'	78:Aa:3294:A:HO2'	1.57	0.40
35:Bb:4:U:C2	35:Bb:5:G:C8	3.10	0.40
39:Fa:10:SER:OG	39:Fa:13:GLY:O	2.39	0.40
39:Fa:170:LYS:HG3	39:Fa:175:HIS:HB2	2.02	0.40
40:Ga:223:PHE:O	40:Ga:227:LEU:N	2.41	0.40
46:Ma:14:ILE:HD12	46:Ma:14:ILE:N	2.36	0.40
47:Na:170:LEU:HD22	70:T:9:ILE:CG2	2.52	0.40
53:C:116:ASP:OD1	53:C:119:LEU:N	2.43	0.40
54:D:22:PRO:O	55:E:146:ASN:ND2	2.55	0.40
55:E:25:VAL:HG11	55:E:94:GLU:HG2	2.03	0.40
72:V:20:VAL:C	72:V:21:LYS:HD2	2.46	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	
2	Ab	204/252 (81%)	170 (83%)	33 (16%)	1 (0%)	24	60
2	b	204/252 (81%)	165 (81%)	38 (19%)	1 (0%)	24	60
3	Ba	222/255 (87%)	182 (82%)	36 (16%)	4 (2%)	6	34
3	c	214/255 (84%)	192 (90%)	21 (10%)	1 (0%)	24	60

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	Pb	115/142 (81%)	101 (88%)	14 (12%)	0	100	100
4	q	117/142 (82%)	97 (83%)	16 (14%)	4 (3%)	3	24
5	Cb	214/254 (84%)	187 (87%)	26 (12%)	1 (0%)	24	60
5	d	215/254 (85%)	183 (85%)	32 (15%)	0	100	100
6	Db	220/240 (92%)	199 (90%)	21 (10%)	0	100	100
6	e	221/240 (92%)	188 (85%)	32 (14%)	1 (0%)	24	60
7	Eb	256/261 (98%)	211 (82%)	44 (17%)	1 (0%)	30	65
7	f	258/261 (99%)	224 (87%)	33 (13%)	1 (0%)	30	65
8	Fb	204/225 (91%)	176 (86%)	27 (13%)	1 (0%)	24	60
8	g	204/225 (91%)	175 (86%)	28 (14%)	1 (0%)	24	60
9	Gb	226/236 (96%)	194 (86%)	28 (12%)	4 (2%)	6	34
9	h	216/236 (92%)	196 (91%)	19 (9%)	1 (0%)	24	60
10	Hb	182/190 (96%)	156 (86%)	25 (14%)	1 (0%)	24	60
10	i	183/190 (96%)	156 (85%)	25 (14%)	2 (1%)	11	44
11	Ib	183/200 (92%)	159 (87%)	22 (12%)	2 (1%)	11	44
11	j	184/200 (92%)	168 (91%)	16 (9%)	0	100	100
12	Jb	182/197 (92%)	155 (85%)	25 (14%)	2 (1%)	11	44
12	k	183/197 (93%)	162 (88%)	19 (10%)	2 (1%)	11	44
13	Kb	90/105 (86%)	67 (74%)	23 (26%)	0	100	100
13	l	90/105 (86%)	74 (82%)	15 (17%)	1 (1%)	11	44
14	Lb	142/156 (91%)	113 (80%)	29 (20%)	0	100	100
14	m	144/156 (92%)	124 (86%)	20 (14%)	0	100	100
15	Mb	119/143 (83%)	74 (62%)	40 (34%)	5 (4%)	2	21
15	n	122/143 (85%)	79 (65%)	40 (33%)	3 (2%)	4	29
16	Nb	148/151 (98%)	121 (82%)	26 (18%)	1 (1%)	18	54
16	o	148/151 (98%)	128 (86%)	20 (14%)	0	100	100
17	Ob	125/137 (91%)	104 (83%)	21 (17%)	0	100	100
17	p	126/137 (92%)	105 (83%)	21 (17%)	0	100	100
18	Qb	139/143 (97%)	117 (84%)	21 (15%)	1 (1%)	18	54
18	r	139/143 (97%)	121 (87%)	15 (11%)	3 (2%)	5	31
19	Rb	117/136 (86%)	104 (89%)	11 (9%)	2 (2%)	7	36

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
19	s	123/136 (90%)	110 (89%)	12 (10%)	1 (1%)	16	52
20	Sb	143/146 (98%)	113 (79%)	26 (18%)	4 (3%)	4	27
20	t	143/146 (98%)	124 (87%)	17 (12%)	2 (1%)	9	39
21	Tb	141/144 (98%)	114 (81%)	25 (18%)	2 (1%)	9	39
21	u	141/144 (98%)	132 (94%)	9 (6%)	0	100	100
22	Ub	98/121 (81%)	86 (88%)	12 (12%)	0	100	100
22	v	99/121 (82%)	87 (88%)	10 (10%)	2 (2%)	6	33
23	Vb	85/87 (98%)	65 (76%)	19 (22%)	1 (1%)	10	42
23	w	85/87 (98%)	71 (84%)	14 (16%)	0	100	100
24	Wb	127/130 (98%)	103 (81%)	24 (19%)	0	100	100
24	x	127/130 (98%)	115 (91%)	12 (9%)	0	100	100
25	Xb	142/145 (98%)	110 (78%)	30 (21%)	2 (1%)	9	39
25	y	142/145 (98%)	123 (87%)	17 (12%)	2 (1%)	9	39
26	Yb	132/135 (98%)	119 (90%)	12 (9%)	1 (1%)	16	52
26	z	132/135 (98%)	109 (83%)	21 (16%)	2 (2%)	8	38
27	0	67/108 (62%)	61 (91%)	6 (9%)	0	100	100
27	Zb	80/108 (74%)	63 (79%)	17 (21%)	0	100	100
28	1	95/119 (80%)	71 (75%)	23 (24%)	1 (1%)	11	44
28	ab	95/119 (80%)	64 (67%)	26 (27%)	5 (5%)	1	18
29	2	79/82 (96%)	64 (81%)	15 (19%)	0	100	100
29	bb	79/82 (96%)	63 (80%)	16 (20%)	0	100	100
30	4	51/56 (91%)	38 (74%)	13 (26%)	0	100	100
30	db	51/56 (91%)	42 (82%)	9 (18%)	0	100	100
31	5	58/63 (92%)	43 (74%)	14 (24%)	1 (2%)	7	36
31	eb	58/63 (92%)	45 (78%)	13 (22%)	0	100	100
32	6	71/152 (47%)	41 (58%)	29 (41%)	1 (1%)	9	39
32	fb	71/152 (47%)	43 (61%)	28 (39%)	0	100	100
33	7	311/319 (98%)	281 (90%)	30 (10%)	0	100	100
33	gb	310/319 (97%)	264 (85%)	45 (14%)	1 (0%)	36	70
34	3	61/67 (91%)	54 (88%)	7 (12%)	0	100	100
34	cb	61/67 (91%)	47 (77%)	14 (23%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
37	Ay	249/254 (98%)	199 (80%)	48 (19%)	2 (1%)	16	52
37	Da	250/254 (98%)	205 (82%)	45 (18%)	0	100	100
38	By	384/387 (99%)	314 (82%)	68 (18%)	2 (0%)	24	60
38	Ea	384/387 (99%)	342 (89%)	42 (11%)	0	100	100
39	Cy	359/362 (99%)	292 (81%)	65 (18%)	2 (1%)	21	57
39	Fa	359/362 (99%)	297 (83%)	58 (16%)	4 (1%)	11	44
40	Dy	292/297 (98%)	251 (86%)	40 (14%)	1 (0%)	36	70
40	Ga	292/297 (98%)	265 (91%)	27 (9%)	0	100	100
41	Ey	163/176 (93%)	138 (85%)	24 (15%)	1 (1%)	21	57
41	Ha	153/176 (87%)	132 (86%)	21 (14%)	0	100	100
42	Fy	220/244 (90%)	178 (81%)	40 (18%)	2 (1%)	14	48
42	Ia	221/244 (91%)	198 (90%)	23 (10%)	0	100	100
43	Gy	231/256 (90%)	196 (85%)	35 (15%)	0	100	100
43	Ja	229/256 (90%)	187 (82%)	42 (18%)	0	100	100
44	Hy	189/191 (99%)	164 (87%)	25 (13%)	0	100	100
44	Ka	188/191 (98%)	176 (94%)	12 (6%)	0	100	100
45	Iy	216/221 (98%)	187 (87%)	29 (13%)	0	100	100
45	La	205/221 (93%)	178 (87%)	27 (13%)	0	100	100
46	Jy	167/174 (96%)	129 (77%)	35 (21%)	3 (2%)	6	34
46	Ma	167/174 (96%)	141 (84%)	24 (14%)	2 (1%)	10	42
47	Ly	191/199 (96%)	148 (78%)	39 (20%)	4 (2%)	5	32
47	Na	192/199 (96%)	149 (78%)	38 (20%)	5 (3%)	4	29
48	My	134/138 (97%)	114 (85%)	20 (15%)	0	100	100
48	Oa	135/138 (98%)	123 (91%)	12 (9%)	0	100	100
49	Ny	201/204 (98%)	160 (80%)	41 (20%)	0	100	100
49	Pa	201/204 (98%)	182 (90%)	17 (8%)	2 (1%)	12	45
50	Oy	195/199 (98%)	161 (83%)	32 (16%)	2 (1%)	12	45
50	Qa	195/199 (98%)	183 (94%)	12 (6%)	0	100	100
51	A	171/184 (93%)	160 (94%)	11 (6%)	0	100	100
51	Py	181/184 (98%)	149 (82%)	32 (18%)	0	100	100
52	B	183/186 (98%)	158 (86%)	25 (14%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
52	Qy	183/186 (98%)	152 (83%)	31 (17%)	0	100	100
53	C	181/189 (96%)	171 (94%)	10 (6%)	0	100	100
53	Ry	186/189 (98%)	168 (90%)	16 (9%)	2 (1%)	11	44
54	D	170/172 (99%)	157 (92%)	13 (8%)	0	100	100
54	Sy	169/172 (98%)	150 (89%)	19 (11%)	0	100	100
55	E	157/160 (98%)	137 (87%)	20 (13%)	0	100	100
55	Ty	157/160 (98%)	132 (84%)	25 (16%)	0	100	100
56	F	96/121 (79%)	91 (95%)	5 (5%)	0	100	100
56	Uy	98/121 (81%)	87 (89%)	11 (11%)	0	100	100
57	G	132/137 (96%)	121 (92%)	11 (8%)	0	100	100
57	Vy	134/137 (98%)	115 (86%)	19 (14%)	0	100	100
58	H	133/155 (86%)	109 (82%)	24 (18%)	0	100	100
58	Wy	124/155 (80%)	97 (78%)	27 (22%)	0	100	100
59	I	118/142 (83%)	102 (86%)	16 (14%)	0	100	100
59	Xy	119/142 (84%)	98 (82%)	20 (17%)	1 (1%)	16	52
60	J	122/127 (96%)	113 (93%)	9 (7%)	0	100	100
60	Yy	123/127 (97%)	101 (82%)	22 (18%)	0	100	100
61	K	133/136 (98%)	115 (86%)	16 (12%)	2 (2%)	8	38
61	Zy	133/136 (98%)	116 (87%)	17 (13%)	0	100	100
62	L	146/149 (98%)	116 (80%)	27 (18%)	3 (2%)	5	32
62	ay	146/149 (98%)	113 (77%)	30 (20%)	3 (2%)	5	32
63	M	56/59 (95%)	43 (77%)	13 (23%)	0	100	100
63	by	56/59 (95%)	39 (70%)	15 (27%)	2 (4%)	2	23
64	N	98/105 (93%)	92 (94%)	6 (6%)	0	100	100
64	cy	94/105 (90%)	86 (92%)	8 (8%)	0	100	100
65	O	107/113 (95%)	97 (91%)	10 (9%)	0	100	100
65	dy	107/113 (95%)	91 (85%)	16 (15%)	0	100	100
66	P	125/130 (96%)	110 (88%)	15 (12%)	0	100	100
66	ey	125/130 (96%)	110 (88%)	15 (12%)	0	100	100
67	Q	104/107 (97%)	90 (86%)	14 (14%)	0	100	100
67	fy	104/107 (97%)	87 (84%)	17 (16%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
68	R	110/121 (91%)	103 (94%)	7 (6%)	0	100	100
68	gy	110/121 (91%)	92 (84%)	18 (16%)	0	100	100
69	S	117/120 (98%)	100 (86%)	17 (14%)	0	100	100
69	hb	117/120 (98%)	102 (87%)	15 (13%)	0	100	100
70	T	97/100 (97%)	83 (86%)	14 (14%)	0	100	100
70	ib	97/100 (97%)	80 (82%)	17 (18%)	0	100	100
71	U	80/88 (91%)	70 (88%)	10 (12%)	0	100	100
71	jb	83/88 (94%)	67 (81%)	16 (19%)	0	100	100
72	V	75/78 (96%)	69 (92%)	5 (7%)	1 (1%)	9	41
72	kb	75/78 (96%)	67 (89%)	8 (11%)	0	100	100
73	W	48/51 (94%)	41 (85%)	7 (15%)	0	100	100
73	lb	48/51 (94%)	41 (85%)	7 (15%)	0	100	100
74	X	50/128 (39%)	46 (92%)	4 (8%)	0	100	100
74	mb	50/128 (39%)	40 (80%)	10 (20%)	0	100	100
75	Y	23/25 (92%)	23 (100%)	0	0	100	100
75	nb	23/25 (92%)	23 (100%)	0	0	100	100
76	Z	103/106 (97%)	91 (88%)	12 (12%)	0	100	100
76	ob	101/106 (95%)	87 (86%)	14 (14%)	0	100	100
77	aa	89/92 (97%)	76 (85%)	13 (15%)	0	100	100
77	pb	89/92 (97%)	71 (80%)	18 (20%)	0	100	100
80	ba	134/311 (43%)	128 (96%)	6 (4%)	0	100	100
All	All	22066/24071 (92%)	18754 (85%)	3191 (14%)	121 (0%)	26	60

All (121) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
12	Jb	99	LEU
28	ab	84	VAL
18	r	116	LEU
19	s	82	ASP
26	z	52	LYS
39	Fa	339	LEU
46	Ma	95	ASN
47	Na	48	PRO
47	Na	62	THR

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Mol	Chain	Res	Type
49	Pa	147	ARG
62	L	78	LEU
72	V	17	ARG
3	Ba	82	ARG
7	Eb	43	PRO
9	Gb	67	VAL
9	Gb	68	LEU
11	Ib	10	LYS
15	Mb	85	LYS
15	Mb	130	THR
20	Sb	91	ASP
23	Vb	81	ASN
38	By	4	ARG
40	Dy	20	PHE
47	Ly	5	LYS
50	Oy	110[A]	PRO
50	Oy	111[A]	PRO
59	Xy	44	PRO
8	g	101	GLY
9	h	68	LEU
15	n	109	GLU
15	n	130	THR
4	q	71	GLU
25	y	89	ASN
31	5	4	VAL
47	Na	140	SER
61	K	102	GLU
62	L	18	GLY
62	L	48	TYR
2	Ab	196	SER
3	Ba	57	ALA
3	Ba	213	ARG
9	Gb	173	PRO
12	Jb	100	LYS
15	Mb	109	GLU
15	Mb	126	TRP
16	Nb	28	LEU
20	Sb	7	GLU
25	Xb	89	ASN
28	ab	62	TYR
33	gb	52	GLN
37	Ay	126	LEU

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Mol	Chain	Res	Type
38	By	128	LYS
39	Cy	4	PRO
42	Fy	233	GLU
46	Jy	109	HIS
53	Ry	53	LYS
62	ay	25	HIS
62	ay	78	LEU
63	by	24	PRO
7	f	163	ASP
18	r	14	LYS
20	t	91	ASP
22	v	72	ASN
26	z	49	LYS
28	1	34	LYS
32	6	107	LYS
47	Na	61	PRO
3	Ba	212	VAL
5	Cb	147	ASN
10	Hb	134	GLU
15	Mb	90	LYS
19	Rb	23	LYS
19	Rb	24	LEU
26	Yb	37	LYS
39	Cy	292	SER
42	Fy	164	SER
46	Jy	111	ASP
53	Ry	131	ALA
62	ay	24	LYS
63	by	25	LYS
10	i	74	GLN
4	q	125	PRO
39	Fa	90	PHE
47	Na	47	ALA
8	Fb	43	PHE
9	Gb	171	LYS
11	Ib	23	LYS
20	Sb	102	ALA
21	Tb	28	LEU
25	Xb	42	PRO
28	ab	9	GLY
28	ab	85	ARG
47	Ly	63	VAL

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Mol	Chain	Res	Type
47	Ly	77	LEU
47	Ly	166	ALA
3	c	147	ALA
6	e	45	LYS
15	n	90	LYS
4	q	68	PRO
20	t	60	GLU
61	K	101	PHE
20	Sb	6	GLN
28	ab	46	GLU
37	Ay	131	GLY
2	b	31	VAL
10	i	10	SER
13	l	32	HIS
49	Pa	146	ALA
18	Qb	33	GLY
25	y	88	PRO
46	Jy	8	PRO
12	k	163	PRO
4	q	126	VAL
22	v	51	VAL
39	Fa	301	PRO
41	Ey	6	ALA
21	Tb	31	PRO
12	k	162	SER
18	r	5	PRO
39	Fa	146	PRO
46	Ma	8	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	
2	Ab	170/210 (81%)	169 (99%)	1 (1%)	78	81
2	b	165/210 (79%)	165 (100%)	0	100	100
3	Ba	200/224 (89%)	198 (99%)	2 (1%)	68	76

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	c	192/224 (86%)	191 (100%)	1 (0%)	81	82
4	Pb	95/118 (80%)	95 (100%)	0	100	100
4	q	98/118 (83%)	98 (100%)	0	100	100
5	Cb	175/205 (85%)	174 (99%)	1 (1%)	78	81
5	d	176/205 (86%)	176 (100%)	0	100	100
6	Db	182/195 (93%)	182 (100%)	0	100	100
6	e	182/195 (93%)	181 (100%)	1 (0%)	81	82
7	Eb	220/222 (99%)	219 (100%)	1 (0%)	81	82
7	f	221/222 (100%)	221 (100%)	0	100	100
8	Fb	172/191 (90%)	172 (100%)	0	100	100
8	g	173/191 (91%)	173 (100%)	0	100	100
9	Gb	189/201 (94%)	187 (99%)	2 (1%)	65	74
9	h	187/201 (93%)	187 (100%)	0	100	100
10	Hb	163/170 (96%)	163 (100%)	0	100	100
10	i	165/170 (97%)	165 (100%)	0	100	100
11	Ib	148/161 (92%)	148 (100%)	0	100	100
11	j	150/161 (93%)	150 (100%)	0	100	100
12	Jb	156/166 (94%)	156 (100%)	0	100	100
12	k	158/166 (95%)	158 (100%)	0	100	100
13	Kb	77/98 (79%)	76 (99%)	1 (1%)	61	72
13	l	73/98 (74%)	73 (100%)	0	100	100
14	Lb	129/137 (94%)	126 (98%)	3 (2%)	44	64
14	m	129/137 (94%)	129 (100%)	0	100	100
15	Mb	88/119 (74%)	88 (100%)	0	100	100
15	n	88/119 (74%)	88 (100%)	0	100	100
16	Nb	127/128 (99%)	125 (98%)	2 (2%)	55	70
16	o	127/128 (99%)	126 (99%)	1 (1%)	73	77
17	Ob	91/105 (87%)	91 (100%)	0	100	100
17	p	97/105 (92%)	96 (99%)	1 (1%)	68	76
18	Qb	117/119 (98%)	117 (100%)	0	100	100
18	r	117/119 (98%)	117 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
19	Rb	101/124 (82%)	101 (100%)	0	100	100
19	s	113/124 (91%)	113 (100%)	0	100	100
20	Sb	128/129 (99%)	128 (100%)	0	100	100
20	t	128/129 (99%)	127 (99%)	1 (1%)	73	77
21	Tb	115/116 (99%)	114 (99%)	1 (1%)	70	76
21	u	115/116 (99%)	115 (100%)	0	100	100
22	Ub	93/114 (82%)	92 (99%)	1 (1%)	65	74
22	v	94/114 (82%)	94 (100%)	0	100	100
23	Vb	71/74 (96%)	71 (100%)	0	100	100
23	w	74/74 (100%)	74 (100%)	0	100	100
24	Wb	110/111 (99%)	109 (99%)	1 (1%)	70	76
24	x	110/111 (99%)	110 (100%)	0	100	100
25	Xb	119/120 (99%)	119 (100%)	0	100	100
25	y	119/120 (99%)	119 (100%)	0	100	100
26	Yb	112/113 (99%)	111 (99%)	1 (1%)	70	76
26	z	112/113 (99%)	112 (100%)	0	100	100
27	0	61/89 (68%)	61 (100%)	0	100	100
27	Zb	67/89 (75%)	67 (100%)	0	100	100
28	1	83/101 (82%)	83 (100%)	0	100	100
28	ab	83/101 (82%)	82 (99%)	1 (1%)	63	73
29	2	70/71 (99%)	70 (100%)	0	100	100
29	bb	70/71 (99%)	70 (100%)	0	100	100
30	4	47/49 (96%)	47 (100%)	0	100	100
30	db	47/49 (96%)	46 (98%)	1 (2%)	47	65
31	5	51/54 (94%)	51 (100%)	0	100	100
31	eb	50/54 (93%)	50 (100%)	0	100	100
32	6	56/135 (42%)	56 (100%)	0	100	100
32	fb	56/135 (42%)	56 (100%)	0	100	100
33	7	255/262 (97%)	255 (100%)	0	100	100
33	gb	250/262 (95%)	249 (100%)	1 (0%)	84	84
34	3	56/60 (93%)	56 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
34	cb	55/60 (92%)	55 (100%)	0	100	100
37	Ay	190/196 (97%)	187 (98%)	3 (2%)	55	70
37	Da	192/196 (98%)	192 (100%)	0	100	100
38	By	319/323 (99%)	314 (98%)	5 (2%)	55	70
38	Ea	318/323 (98%)	318 (100%)	0	100	100
39	Cy	288/289 (100%)	286 (99%)	2 (1%)	76	79
39	Fa	288/289 (100%)	287 (100%)	1 (0%)	86	85
40	Dy	241/245 (98%)	240 (100%)	1 (0%)	84	84
40	Ga	243/245 (99%)	243 (100%)	0	100	100
41	Ey	137/153 (90%)	137 (100%)	0	100	100
41	Ha	135/153 (88%)	135 (100%)	0	100	100
42	Fy	186/205 (91%)	185 (100%)	1 (0%)	81	82
42	Ia	187/205 (91%)	186 (100%)	1 (0%)	81	82
43	Gy	187/208 (90%)	184 (98%)	3 (2%)	55	70
43	Ja	177/208 (85%)	177 (100%)	0	100	100
44	Hy	168/171 (98%)	165 (98%)	3 (2%)	51	68
44	Ka	170/171 (99%)	168 (99%)	2 (1%)	63	73
45	Iy	185/187 (99%)	183 (99%)	2 (1%)	65	74
45	La	177/187 (95%)	177 (100%)	0	100	100
46	Jy	146/150 (97%)	146 (100%)	0	100	100
46	Ma	147/150 (98%)	146 (99%)	1 (1%)	76	79
47	Ly	154/159 (97%)	153 (99%)	1 (1%)	78	81
47	Na	154/159 (97%)	153 (99%)	1 (1%)	78	81
48	My	107/109 (98%)	107 (100%)	0	100	100
48	Oa	108/109 (99%)	107 (99%)	1 (1%)	70	76
49	Ny	175/176 (99%)	174 (99%)	1 (1%)	78	81
49	Pa	175/176 (99%)	175 (100%)	0	100	100
50	Oy	160/162 (99%)	160 (100%)	0	100	100
50	Qa	160/162 (99%)	159 (99%)	1 (1%)	78	81
51	A	139/146 (95%)	139 (100%)	0	100	100
51	Py	138/146 (94%)	135 (98%)	3 (2%)	45	65

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
52	B	150/151 (99%)	150 (100%)	0	100	100
52	Qy	150/151 (99%)	150 (100%)	0	100	100
53	C	149/154 (97%)	149 (100%)	0	100	100
53	Ry	152/154 (99%)	149 (98%)	3 (2%)	48	66
54	D	156/156 (100%)	156 (100%)	0	100	100
54	Sy	155/156 (99%)	155 (100%)	0	100	100
55	E	136/137 (99%)	136 (100%)	0	100	100
55	Ty	136/137 (99%)	136 (100%)	0	100	100
56	F	85/107 (79%)	85 (100%)	0	100	100
56	Uy	87/107 (81%)	86 (99%)	1 (1%)	65	74
57	G	103/105 (98%)	103 (100%)	0	100	100
57	Vy	104/105 (99%)	104 (100%)	0	100	100
58	H	114/129 (88%)	114 (100%)	0	100	100
58	Wy	60/129 (46%)	60 (100%)	0	100	100
59	I	104/118 (88%)	103 (99%)	1 (1%)	68	76
59	Xy	104/118 (88%)	103 (99%)	1 (1%)	68	76
60	J	107/110 (97%)	107 (100%)	0	100	100
60	Yy	108/110 (98%)	107 (99%)	1 (1%)	70	76
61	K	115/116 (99%)	115 (100%)	0	100	100
61	Zy	115/116 (99%)	115 (100%)	0	100	100
62	L	118/119 (99%)	118 (100%)	0	100	100
62	ay	118/119 (99%)	117 (99%)	1 (1%)	73	77
63	M	46/47 (98%)	45 (98%)	1 (2%)	45	65
63	by	46/47 (98%)	46 (100%)	0	100	100
64	N	84/88 (96%)	84 (100%)	0	100	100
64	cy	81/88 (92%)	80 (99%)	1 (1%)	63	73
65	O	94/97 (97%)	93 (99%)	1 (1%)	65	74
65	dy	92/97 (95%)	92 (100%)	0	100	100
66	P	109/111 (98%)	109 (100%)	0	100	100
66	ey	108/111 (97%)	108 (100%)	0	100	100
67	Q	90/91 (99%)	90 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
67	fy	90/91 (99%)	90 (100%)	0	100	100
68	R	95/103 (92%)	95 (100%)	0	100	100
68	gy	95/103 (92%)	95 (100%)	0	100	100
69	S	103/105 (98%)	103 (100%)	0	100	100
69	hb	104/105 (99%)	100 (96%)	4 (4%)	29	51
70	T	80/82 (98%)	80 (100%)	0	100	100
70	ib	80/82 (98%)	80 (100%)	0	100	100
71	U	67/71 (94%)	67 (100%)	0	100	100
71	jb	69/71 (97%)	69 (100%)	0	100	100
72	V	67/69 (97%)	67 (100%)	0	100	100
72	kb	68/69 (99%)	68 (100%)	0	100	100
73	W	45/46 (98%)	45 (100%)	0	100	100
73	lb	45/46 (98%)	45 (100%)	0	100	100
74	X	47/116 (40%)	47 (100%)	0	100	100
74	mb	47/116 (40%)	47 (100%)	0	100	100
75	Y	23/23 (100%)	23 (100%)	0	100	100
75	nb	22/23 (96%)	22 (100%)	0	100	100
76	Z	90/91 (99%)	90 (100%)	0	100	100
76	ob	87/91 (96%)	86 (99%)	1 (1%)	65	74
77	aa	71/72 (99%)	71 (100%)	0	100	100
77	pb	71/72 (99%)	71 (100%)	0	100	100
80	ba	105/253 (42%)	105 (100%)	0	100	100
All	All	18566/20221 (92%)	18492 (100%)	74 (0%)	81	84

All (74) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	Ab	206	ASP
3	Ba	153	HIS
3	Ba	171	ILE
5	Cb	226	THR
7	Eb	224	ASN
9	Gb	68	LEU
9	Gb	78	THR

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Mol	Chain	Res	Type
13	Kb	81	ASN
14	Lb	76	VAL
14	Lb	83	THR
14	Lb	94	ILE
16	Nb	45	LEU
16	Nb	150	VAL
21	Tb	95	ASP
22	Ub	106	ILE
24	Wb	92	ASN
26	Yb	57	VAL
28	ab	83	ILE
30	db	28	THR
33	gb	266	ASP
37	Ay	44	ILE
37	Ay	70	ARG
37	Ay	226	SER
38	By	4	ARG
38	By	104	THR
38	By	230	THR
38	By	336	VAL
38	By	372	THR
39	Cy	203	ARG
39	Cy	259	ASP
40	Dy	227	LEU
42	Fy	209	ASN
43	Gy	58	VAL
43	Gy	93	LEU
43	Gy	158	ASP
44	Hy	68	LEU
44	Hy	75	VAL
44	Hy	107	ASP
45	Iy	40	LYS
45	Iy	73	ASN
47	Ly	76	THR
49	Ny	18	VAL
51	Py	67	ILE
51	Py	79	THR
51	Py	117	ILE
53	Ry	125	LYS
53	Ry	142	ILE
53	Ry	143	ILE
56	Uy	41	ILE

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Mol	Chain	Res	Type
59	Xy	113	LEU
60	Yy	48	LEU
62	ay	6	THR
64	cy	10	ILE
69	hb	48	ARG
69	hb	57	VAL
69	hb	81	ARG
69	hb	94	LYS
76	ob	80	ARG
3	c	197	ILE
6	e	164	VAL
16	o	116	ILE
17	p	79	VAL
20	t	145	ARG
39	Fa	295	ILE
42	Ia	161	VAL
44	Ka	64	HIS
44	Ka	107	ASP
46	Ma	12	LEU
47	Na	13	HIS
48	Oa	22	LEU
50	Qa	118	VAL
59	I	126	LEU
63	M	50	THR
65	O	73	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (273) such sidechains are listed below:

Mol	Chain	Res	Type
3	Ba	146	GLN
3	Ba	194	ASN
4	Pb	70	ASN
5	Cb	152	HIS
5	Cb	199	GLN
5	Cb	233	GLN
6	Db	111	ASN
7	Eb	8	HIS
7	Eb	17	HIS
7	Eb	57	ASN
7	Eb	98	ASN
8	Fb	63	GLN
8	Fb	86	GLN

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Mol	Chain	Res	Type
8	Fb	103	ASN
8	Fb	139	ASN
8	Fb	200	ASN
8	Fb	224	ASN
9	Gb	182	GLN
9	Gb	197	ASN
10	Hb	74	GLN
10	Hb	108	GLN
11	Ib	87	ASN
12	Jb	38	ASN
12	Jb	124	HIS
13	Kb	12	HIS
13	Kb	28	ASN
14	Lb	81	HIS
14	Lb	92	HIS
14	Lb	110	HIS
16	Nb	78	ASN
16	Nb	123	HIS
17	Ob	29	HIS
17	Ob	65	GLN
17	Ob	80	HIS
20	Sb	12	GLN
20	Sb	89	GLN
22	Ub	105	GLN
23	Vb	74	GLN
24	Wb	44	HIS
24	Wb	92	ASN
25	Xb	18	HIS
25	Xb	27	ASN
26	Yb	63	GLN
27	Zb	38	HIS
29	bb	5	GLN
32	fb	95	HIS
32	fb	134	ASN
32	fb	135	HIS
33	gb	69	GLN
33	gb	148	ASN
33	gb	195	HIS
33	gb	200	ASN
34	cb	43	ASN
37	Ay	8	GLN
37	Ay	47	GLN

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Mol	Chain	Res	Type
37	Ay	132	ASN
37	Ay	139	HIS
38	By	11	HIS
38	By	109	HIS
38	By	173	GLN
38	By	279	ASN
38	By	377	HIS
39	Cy	5	GLN
39	Cy	9	HIS
39	Cy	291	ASN
39	Cy	316	ASN
39	Cy	322	GLN
40	Dy	57	ASN
40	Dy	274	GLN
42	Fy	231	ASN
43	Gy	28	HIS
43	Gy	45	ASN
43	Gy	61	GLN
43	Gy	232	HIS
43	Gy	240	ASN
44	Hy	58	HIS
44	Hy	100	ASN
44	Hy	125	ASN
44	Hy	156	GLN
44	Hy	157	ASN
45	Iy	100	ASN
45	Iy	113	GLN
45	Iy	163	GLN
45	Iy	209	ASN
46	Jy	95	ASN
46	Jy	109	HIS
47	Ly	12	ASN
47	Ly	19	GLN
47	Ly	114	GLN
49	Ny	139	HIS
49	Ny	182	ASN
50	Oy	55[A]	HIS
51	Py	28	ASN
51	Py	54	HIS
51	Py	55	GLN
51	Py	116	HIS
52	Qy	5	HIS

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Mol	Chain	Res	Type
52	Qy	136	ASN
53	Ry	3	ASN
53	Ry	34	GLN
53	Ry	58	HIS
53	Ry	75	HIS
53	Ry	130	ASN
54	Sy	3	HIS
54	Sy	142	GLN
54	Sy	157	GLN
55	Ty	54	HIS
55	Ty	131	GLN
56	Uy	25	ASN
56	Uy	101	ASN
57	Vy	98	ASN
57	Vy	132	ASN
58	Wy	33	ASN
58	Wy	58	HIS
58	Wy	59	HIS
59	Xy	111	ASN
61	Zy	103	GLN
62	ay	14	HIS
62	ay	49	HIS
62	ay	62	HIS
63	by	7	HIS
63	by	12	GLN
63	by	17	HIS
64	cy	11	ASN
64	cy	12	GLN
65	dy	15	ASN
65	dy	57	GLN
66	ey	88	HIS
67	fy	42	GLN
67	fy	88	ASN
68	gy	34	HIS
68	gy	52	GLN
69	hb	99	GLN
69	hb	113	GLN
73	lb	43	ASN
2	b	168	HIS
3	c	74	GLN
3	c	92	GLN
3	c	146	GLN

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Mol	Chain	Res	Type
3	c	209	ASN
5	d	220	ASN
5	d	233	GLN
6	e	67	ASN
6	e	74	GLN
6	e	174	HIS
6	e	179	GLN
7	f	57	ASN
7	f	67	GLN
8	g	66	GLN
8	g	158	GLN
8	g	224	ASN
9	h	34	GLN
9	h	119	GLN
9	h	140	ASN
9	h	210	GLN
10	i	74	GLN
10	i	174	ASN
11	j	35	ASN
11	j	94	ASN
11	j	103	GLN
11	j	111	GLN
13	l	9	ASN
13	l	28	ASN
14	m	18	HIS
14	m	81	HIS
14	m	92	HIS
15	n	125	ASN
18	r	32	ASN
18	r	139	GLN
20	t	44	ASN
20	t	89	GLN
20	t	137	HIS
21	u	12	GLN
21	u	129	GLN
24	x	70	ASN
24	x	92	ASN
27	0	82	HIS
29	2	9	HIS
29	2	49	HIS
34	3	51	ASN
30	4	53	ASN

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Mol	Chain	Res	Type
31	5	5	HIS
31	5	46	ASN
31	5	57	ASN
32	6	145	HIS
32	6	151	ASN
33	7	196	ASN
37	Da	79	ASN
37	Da	233	GLN
38	Ea	3	HIS
38	Ea	165	GLN
38	Ea	177	HIS
38	Ea	182	GLN
39	Fa	9	HIS
39	Fa	48	GLN
39	Fa	92	ASN
39	Fa	160	GLN
39	Fa	307	GLN
39	Fa	311	HIS
40	Ga	206	GLN
41	Ha	97	ASN
41	Ha	157	GLN
42	Ia	61	ASN
42	Ia	64	GLN
43	Ja	41	GLN
43	Ja	240	ASN
43	Ja	243	GLN
44	Ka	59	ASN
44	Ka	64	HIS
44	Ka	102	ASN
44	Ka	156	GLN
45	La	59	GLN
45	La	123	HIS
45	La	144	ASN
45	La	163	GLN
46	Ma	43	GLN
46	Ma	101	ASN
47	Na	19	GLN
47	Na	99	HIS
48	Oa	41	GLN
49	Pa	11	GLN
49	Pa	34	ASN
49	Pa	57	GLN

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Mol	Chain	Res	Type
49	Pa	123	GLN
49	Pa	175	ASN
49	Pa	182	ASN
49	Pa	195	ASN
50	Qa	50	ASN
50	Qa	90	HIS
50	Qa	122	GLN
51	A	34	GLN
51	A	54	HIS
51	A	97	ASN
52	B	23	ASN
52	B	136	ASN
53	C	121	HIS
53	C	144	GLN
54	D	3	HIS
54	D	65	ASN
54	D	114	HIS
54	D	122	HIS
54	D	138	GLN
56	F	88	GLN
56	F	101	ASN
57	G	33	ASN
59	I	94	GLN
60	J	98	ASN
61	K	36	HIS
61	K	78	ASN
62	L	38	GLN
62	L	40	HIS
62	L	49	HIS
63	M	12	GLN
63	M	45	HIS
65	O	43	HIS
65	O	57	GLN
66	P	49	ASN
67	Q	42	GLN
68	R	3	GLN
68	R	18	ASN
68	R	52	GLN
69	S	59	ASN
69	S	62	GLN
69	S	108	GLN
71	U	20	ASN

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Mol	Chain	Res	Type
71	U	48	ASN
73	W	11	GLN
73	W	25	GLN
73	W	43	ASN
74	X	120	GLN
76	Z	22	GLN
76	Z	53	GLN
76	Z	105	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	2b	1768/1800 (98%)	639 (36%)	0
1	a	1755/1800 (97%)	534 (30%)	0
35	4b	120/121 (99%)	20 (16%)	0
35	Bb	120/121 (99%)	17 (14%)	0
36	3b	157/158 (99%)	41 (26%)	0
36	Ca	156/158 (98%)	37 (23%)	0
78	1b	3180/3396 (93%)	881 (27%)	0
78	Aa	3120/3396 (91%)	804 (25%)	0
79	6b	75/76 (98%)	16 (21%)	0
79	8	75/76 (98%)	18 (24%)	0
All	All	10526/11102 (94%)	3007 (28%)	0

All (3007) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	2b	2	A
1	2b	4	C
1	2b	6	G
1	2b	8	U
1	2b	10	G
1	2b	17	C
1	2b	25	C
1	2b	26	A
1	2b	34	G
1	2b	36	C
1	2b	39	A
1	2b	43	A
1	2b	44	U
1	2b	45	U

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Mol	Chain	Res	Type
1	2b	46	A
1	2b	47	A
1	2b	51	A
1	2b	56	U
1	2b	57	G
1	2b	60	U
1	2b	61	A
1	2b	62	A
1	2b	63	G
1	2b	65	A
1	2b	66	U
1	2b	67	A
1	2b	68	A
1	2b	69	G
1	2b	71	A
1	2b	73	U
1	2b	74	U
1	2b	75	U
1	2b	76	A
1	2b	78	A
1	2b	79	C
1	2b	80	A
1	2b	81	G
1	2b	90	C
1	2b	93	A
1	2b	99	C
1	2b	104	A
1	2b	111	U
1	2b	114	C
1	2b	115	G
1	2b	116	U
1	2b	121	U
1	2b	124	A
1	2b	126	A
1	2b	127	G
1	2b	129	U
1	2b	130	C
1	2b	131	C
1	2b	132	U
1	2b	133	U
1	2b	134	U
1	2b	135	A

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Mol	Chain	Res	Type
1	2b	136	C
1	2b	138	A
1	2b	140	A
1	2b	141	U
1	2b	142	G
1	2b	145	A
1	2b	147	A
1	2b	153	G
1	2b	155	U
1	2b	156	A
1	2b	159	U
1	2b	161	U
1	2b	166	C
1	2b	170	U
1	2b	171	A
1	2b	173	A
1	2b	174	U
1	2b	176	C
1	2b	178	U
1	2b	179	A
1	2b	180	A
1	2b	185	U
1	2b	186	C
1	2b	187	G
1	2b	188	A
1	2b	191	C
1	2b	192	U
1	2b	193	U
1	2b	194	U
1	2b	195	G
1	2b	196	G
1	2b	204	G
1	2b	216	U
1	2b	217	A
1	2b	218	A
1	2b	220	A
1	2b	222	A
1	2b	223	U
1	2b	225	A
1	2b	227	U
1	2b	228	G
1	2b	230	C

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Mol	Chain	Res	Type
1	2b	231	U
1	2b	232	U
1	2b	233	C
1	2b	234	G
1	2b	235	G
1	2b	236	A
1	2b	237	C
1	2b	238	U
1	2b	240	U
1	2b	241	U
1	2b	246	G
1	2b	250	C
1	2b	251	A
1	2b	255	U
1	2b	257	A
1	2b	260	U
1	2b	261	U
1	2b	262	U
1	2b	265	A
1	2b	272	U
1	2b	274	G
1	2b	276	C
1	2b	277	U
1	2b	278	U
1	2b	279	G
1	2b	280	U
1	2b	281	G
1	2b	287	G
1	2b	299	A
1	2b	302	U
1	2b	311	U
1	2b	312	A
1	2b	313	U
1	2b	314	C
1	2b	316	A
1	2b	320	U
1	2b	322	G
1	2b	323	A
1	2b	330	G
1	2b	331	A
1	2b	333	A
1	2b	334	G

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Mol	Chain	Res	Type
1	2b	337	G
1	2b	338	C
1	2b	345	U
1	2b	352	A
1	2b	353	A
1	2b	359	A
1	2b	361	C
1	2b	363	G
1	2b	365	G
1	2b	369	A
1	2b	370	A
1	2b	373	G
1	2b	384	G
1	2b	388	G
1	2b	390	G
1	2b	391	A
1	2b	394	C
1	2b	397	A
1	2b	398	G
1	2b	400	A
1	2b	401	A
1	2b	402	C
1	2b	404	G
1	2b	417	A
1	2b	419	G
1	2b	423	G
1	2b	424	C
1	2b	425	A
1	2b	426	G
1	2b	432	G
1	2b	435	C
1	2b	436	A
1	2b	437	A
1	2b	438	A
1	2b	439	U
1	2b	441	A
1	2b	445	A
1	2b	446	A
1	2b	448	C
1	2b	459	G
1	2b	460	A
1	2b	464	A

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Mol	Chain	Res	Type
1	2b	468	A
1	2b	471	A
1	2b	477	A
1	2b	478	A
1	2b	480	G
1	2b	482	U
1	2b	483	A
1	2b	485	A
1	2b	487	G
1	2b	489	C
1	2b	491	C
1	2b	492	A
1	2b	493	U
1	2b	494	U
1	2b	495	C
1	2b	496	G
1	2b	498	G
1	2b	499	U
1	2b	500	C
1	2b	502	U
1	2b	506	A
1	2b	507	U
1	2b	510	G
1	2b	511	A
1	2b	512	A
1	2b	514	G
1	2b	517	U
1	2b	525	A
1	2b	527	A
1	2b	529	A
1	2b	532	U
1	2b	534	A
1	2b	537	G
1	2b	538	A
1	2b	539	G
1	2b	540	G
1	2b	541	A
1	2b	542	A
1	2b	543	C
1	2b	545	A
1	2b	554	C
1	2b	555	A

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Mol	Chain	Res	Type
1	2b	556	A
1	2b	557	G
1	2b	558	U
1	2b	559	C
1	2b	565	C
1	2b	568	G
1	2b	571	G
1	2b	572	C
1	2b	577	G
1	2b	578	U
1	2b	579	A
1	2b	580	A
1	2b	582	U
1	2b	583	C
1	2b	585	A
1	2b	594	A
1	2b	595	G
1	2b	606	A
1	2b	609	U
1	2b	610	G
1	2b	611	U
1	2b	614	C
1	2b	619	A
1	2b	620	A
1	2b	622	A
1	2b	623	A
1	2b	624	G
1	2b	626	U
1	2b	628	G
1	2b	629	U
1	2b	639	U
1	2b	640	U
1	2b	641	G
1	2b	643	G
1	2b	645	C
1	2b	648	G
1	2b	651	G
1	2b	652	G
1	2b	653	C
1	2b	655	G
1	2b	657	U
1	2b	658	C

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Mol	Chain	Res	Type
1	2b	677	G
1	2b	680	U
1	2b	681	U
1	2b	683	C
1	2b	684	A
1	2b	687	G
1	2b	694	U
1	2b	696	C
1	2b	697	C
1	2b	698	U
1	2b	699	U
1	2b	700	C
1	2b	703	G
1	2b	704	C
1	2b	705	U
1	2b	706	A
1	2b	707	A
1	2b	708	C
1	2b	709	C
1	2b	710	U
1	2b	711	U
1	2b	712	G
1	2b	713	A
1	2b	714	G
1	2b	728	U
1	2b	729	G
1	2b	730	G
1	2b	731	C
1	2b	732	G
1	2b	733	A
1	2b	734	A
1	2b	736	C
1	2b	738	G
1	2b	741	C
1	2b	742	U
1	2b	743	U
1	2b	745	U
1	2b	753	A
1	2b	755	A
1	2b	756	A
1	2b	765	G
1	2b	766	U

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Mol	Chain	Res	Type
1	2b	767	U
1	2b	771	A
1	2b	774	A
1	2b	775	G
1	2b	778	G
1	2b	779	U
1	2b	780	A
1	2b	781	U
1	2b	782	U
1	2b	783	G
1	2b	787	G
1	2b	789	A
1	2b	794	U
1	2b	804	A
1	2b	806	A
1	2b	807	A
1	2b	810	G
1	2b	812	A
1	2b	813	U
1	2b	814	A
1	2b	815	G
1	2b	819	G
1	2b	820	U
1	2b	821	U
1	2b	823	G
1	2b	825	U
1	2b	832	U
1	2b	833	U
1	2b	835	U
1	2b	837	G
1	2b	839	U
1	2b	840	U
1	2b	841	U
1	2b	845	G
1	2b	846	G
1	2b	852	C
1	2b	853	G
1	2b	855	A
1	2b	856	A
1	2b	857	U
1	2b	861	U
1	2b	862	A

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Mol	Chain	Res	Type
1	2b	863	A
1	2b	864	U
1	2b	865	A
1	2b	876	G
1	2b	898	A
1	2b	899	G
1	2b	901	G
1	2b	902	G
1	2b	911	U
1	2b	912	U
1	2b	913	G
1	2b	915	A
1	2b	921	U
1	2b	928	U
1	2b	929	A
1	2b	932	U
1	2b	933	A
1	2b	934	C
1	2b	935	U
1	2b	940	A
1	2b	942	G
1	2b	944	A
1	2b	945	U
1	2b	959	U
1	2b	960	U
1	2b	962	C
1	2b	964	U
1	2b	965	U
1	2b	966	A
1	2b	969	C
1	2b	970	A
1	2b	971	A
1	2b	977	A
1	2b	984	G
1	2b	987	G
1	2b	988	A
1	2b	991	G
1	2b	992	A
1	2b	993	A
1	2b	996	U
1	2b	1004	U
1	2b	1007	C

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Mol	Chain	Res	Type
1	2b	1011	G
1	2b	1012	U
1	2b	1020	A
1	2b	1021	C
1	2b	1023	A
1	2b	1024	U
1	2b	1028	C
1	2b	1029	U
1	2b	1039	A
1	2b	1052	U
1	2b	1053	G
1	2b	1058	U
1	2b	1059	U
1	2b	1060	U
1	2b	1061	A
1	2b	1062	A
1	2b	1063	U
1	2b	1075	C
1	2b	1076	A
1	2b	1082	C
1	2b	1090	C
1	2b	1092	A
1	2b	1093	A
1	2b	1096	C
1	2b	1098	U
1	2b	1100	G
1	2b	1109	G
1	2b	1115	U
1	2b	1119	G
1	2b	1122	G
1	2b	1124	A
1	2b	1130	G
1	2b	1137	A
1	2b	1138	A
1	2b	1139	A
1	2b	1150	G
1	2b	1158	C
1	2b	1160	A
1	2b	1163	A
1	2b	1164	G
1	2b	1167	G
1	2b	1170	G

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Mol	Chain	Res	Type
1	2b	1172	G
1	2b	1185	U
1	2b	1191	U
1	2b	1193	A
1	2b	1194	A
1	2b	1196	A
1	2b	1197	C
1	2b	1199	G
1	2b	1200	G
1	2b	1202	A
1	2b	1206	U
1	2b	1207	C
1	2b	1208	A
1	2b	1209	C
1	2b	1217	A
1	2b	1218	G
1	2b	1227	A
1	2b	1229	G
1	2b	1230	A
1	2b	1231	U
1	2b	1241	G
1	2b	1242	A
1	2b	1243	G
1	2b	1244	A
1	2b	1245	G
1	2b	1246	C
1	2b	1251	U
1	2b	1252	C
1	2b	1255	G
1	2b	1256	A
1	2b	1257	U
1	2b	1258	U
1	2b	1263	G
1	2b	1274	C
1	2b	1275	A
1	2b	1276	U
1	2b	1285	U
1	2b	1287	A
1	2b	1294	G
1	2b	1298	U
1	2b	1299	G
1	2b	1308	G

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Mol	Chain	Res	Type
1	2b	1314	U
1	2b	1315	U
1	2b	1316	G
1	2b	1318	G
1	2b	1321	A
1	2b	1322	A
1	2b	1337	A
1	2b	1338	C
1	2b	1341	A
1	2b	1344	A
1	2b	1345	A
1	2b	1346	A
1	2b	1348	A
1	2b	1349	G
1	2b	1354	G
1	2b	1355	C
1	2b	1360	A
1	2b	1361	U
1	2b	1362	U
1	2b	1363	U
1	2b	1367	G
1	2b	1370	U
1	2b	1371	A
1	2b	1373	C
1	2b	1378	U
1	2b	1380	U
1	2b	1382	A
1	2b	1383	G
1	2b	1385	G
1	2b	1388	A
1	2b	1390	U
1	2b	1391	A
1	2b	1395	G
1	2b	1396	U
1	2b	1398	U
1	2b	1399	C
1	2b	1400	A
1	2b	1402	G
1	2b	1410	A
1	2b	1413	U
1	2b	1414	U
1	2b	1415	U

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Mol	Chain	Res	Type
1	2b	1418	G
1	2b	1427	A
1	2b	1428	G
1	2b	1431	C
1	2b	1432	U
1	2b	1433	G
1	2b	1435	G
1	2b	1436	A
1	2b	1437	U
1	2b	1438	G
1	2b	1444	A
1	2b	1445	G
1	2b	1446	A
1	2b	1447	C
1	2b	1448	G
1	2b	1459	C
1	2b	1460	A
1	2b	1465	C
1	2b	1466	G
1	2b	1469	A
1	2b	1470	C
1	2b	1471	A
1	2b	1472	C
1	2b	1479	A
1	2b	1486	G
1	2b	1491	U
1	2b	1492	A
1	2b	1493	A
1	2b	1494	C
1	2b	1496	U
1	2b	1503	A
1	2b	1514	U
1	2b	1515	A
1	2b	1516	A
1	2b	1517	U
1	2b	1518	C
1	2b	1520	U
1	2b	1521	G
1	2b	1523	G
1	2b	1524	A
1	2b	1527	C
1	2b	1528	U

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Mol	Chain	Res	Type
1	2b	1530	C
1	2b	1531	G
1	2b	1535	U
1	2b	1537	C
1	2b	1540	G
1	2b	1543	A
1	2b	1545	A
1	2b	1554	U
1	2b	1557	U
1	2b	1558	U
1	2b	1559	A
1	2b	1570	A
1	2b	1572	G
1	2b	1573	A
1	2b	1574	G
1	2b	1575	G
1	2b	1576	A
1	2b	1577	A
1	2b	1582	U
1	2b	1583	A
1	2b	1584	G
1	2b	1585	U
1	2b	1601	G
1	2b	1602	C
1	2b	1605	G
1	2b	1611	A
1	2b	1614	A
1	2b	1616	G
1	2b	1618	C
1	2b	1619	C
1	2b	1622	G
1	2b	1632	C
1	2b	1634	C
1	2b	1635	A
1	2b	1636	C
1	2b	1637	C
1	2b	1638	G
1	2b	1649	G
1	2b	1657	U
1	2b	1658	G
1	2b	1676	U
1	2b	1682	U

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Mol	Chain	Res	Type
1	2b	1688	U
1	2b	1689	A
1	2b	1698	G
1	2b	1701	A
1	2b	1702	A
1	2b	1707	A
1	2b	1708	U
1	2b	1709	C
1	2b	1711	C
1	2b	1712	A
1	2b	1715	G
1	2b	1716	C
1	2b	1718	G
1	2b	1725	U
1	2b	1736	G
1	2b	1742	U
1	2b	1743	U
1	2b	1750	A
1	2b	1756	A
1	2b	1757	G
1	2b	1760	G
1	2b	1766	A
1	2b	1767	G
1	2b	1768	G
1	2b	1769	U
1	2b	1770	U
1	2b	1780	G
1	2b	1782	A
1	2b	1783	C
1	2b	1786	G
1	2b	1791	A
1	2b	1792	G
1	2b	1793	G
1	2b	1794	A
1	2b	1795	U
1	2b	1796	C
1	2b	1799	U
35	4b	7	G
35	4b	11	A
35	4b	18	C
35	4b	33	U
35	4b	38	U

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Mol	Chain	Res	Type
35	4b	47	C
35	4b	53	U
35	4b	54	U
35	4b	55	A
35	4b	65	G
35	4b	74	C
35	4b	76	A
35	4b	80	G
35	4b	86	U
35	4b	90	U
35	4b	99	G
35	4b	102	A
35	4b	112	G
35	4b	120	C
35	4b	121	U
36	3b	15	G
36	3b	22	U
36	3b	23	U
36	3b	34	U
36	3b	35	C
36	3b	37	A
36	3b	40	A
36	3b	46	G
36	3b	49	G
36	3b	59	A
36	3b	61	A
36	3b	62	C
36	3b	63	G
36	3b	71	A
36	3b	80	A
36	3b	81	U
36	3b	82	U
36	3b	83	C
36	3b	85	G
36	3b	86	U
36	3b	87	G
36	3b	89	A
36	3b	90	U
36	3b	94	C
36	3b	95	G
36	3b	99	C
36	3b	102	U

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Mol	Chain	Res	Type
36	3b	103	G
36	3b	104	A
36	3b	106	C
36	3b	107	G
36	3b	111	A
36	3b	113	U
36	3b	116	G
36	3b	125	U
36	3b	126	A
36	3b	138	A
36	3b	148	G
36	3b	151	C
36	3b	152	G
36	3b	158	U
78	1b	11	A
78	1b	14	U
78	1b	15	C
78	1b	18	G
78	1b	22	G
78	1b	26	A
78	1b	30	G
78	1b	40	A
78	1b	43	A
78	1b	45	A
78	1b	49	A
78	1b	59	G
78	1b	60	A
78	1b	65	A
78	1b	66	A
78	1b	71	A
78	1b	74	G
78	1b	76	G
78	1b	77	A
78	1b	87	U
78	1b	92	G
78	1b	99	A
78	1b	108	A
78	1b	109	A
78	1b	110	G
78	1b	113	C
78	1b	117	U
78	1b	118	U

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Mol	Chain	Res	Type
78	1b	121	A
78	1b	122	A
78	1b	133	U
78	1b	135	C
78	1b	136	G
78	1b	142	C
78	1b	146	U
78	1b	149	U
78	1b	150	A
78	1b	153	U
78	1b	154	U
78	1b	155	G
78	1b	156	G
78	1b	157	A
78	1b	161	G
78	1b	165	A
78	1b	166	C
78	1b	172	G
78	1b	173	G
78	1b	185	C
78	1b	187	A
78	1b	189	G
78	1b	190	U
78	1b	191	U
78	1b	200	C
78	1b	206	G
78	1b	210	U
78	1b	211	A
78	1b	212	G
78	1b	213	A
78	1b	218	G
78	1b	219	A
78	1b	221	A
78	1b	224	C
78	1b	231	G
78	1b	240	U
78	1b	241	G
78	1b	242	C
78	1b	243	G
78	1b	248	U
78	1b	249	U
78	1b	250	U

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Mol	Chain	Res	Type
78	1b	251	G
78	1b	252	U
78	1b	253	A
78	1b	263	C
78	1b	265	A
78	1b	269	G
78	1b	270	U
78	1b	272	G
78	1b	281	G
78	1b	282	G
78	1b	283	G
78	1b	285	A
78	1b	286	U
78	1b	291	C
78	1b	295	A
78	1b	298	U
78	1b	306	A
78	1b	323	A
78	1b	325	A
78	1b	327	A
78	1b	329	U
78	1b	334	A
78	1b	339	C
78	1b	341	G
78	1b	342	A
78	1b	346	C
78	1b	348	A
78	1b	350	C
78	1b	351	A
78	1b	373	A
78	1b	375	A
78	1b	376	G
78	1b	385	A
78	1b	398	A
78	1b	400	G
78	1b	401	U
78	1b	402	A
78	1b	403	C
78	1b	421	G
78	1b	422	A
78	1b	439	C
78	1b	440	A

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Mol	Chain	Res	Type
78	1b	441	U
78	1b	442	G
78	1b	445	G
78	1b	446	U
78	1b	447	U
78	1b	448	U
78	1b	450	G
78	1b	451	U
78	1b	487	U
78	1b	488	U
78	1b	489	U
78	1b	490	C
78	1b	491	A
78	1b	494	G
78	1b	495	G
78	1b	503	C
78	1b	520	U
78	1b	521	A
78	1b	523	A
78	1b	535	G
78	1b	536	U
78	1b	543	C
78	1b	544	C
78	1b	545	U
78	1b	546	C
78	1b	547	G
78	1b	548	G
78	1b	549	U
78	1b	550	A
78	1b	552	G
78	1b	555	U
78	1b	556	U
78	1b	557	A
78	1b	559	A
78	1b	560	G
78	1b	569	A
78	1b	572	A
78	1b	579	G
78	1b	589	A
78	1b	592	A
78	1b	597	G
78	1b	600	G

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Mol	Chain	Res	Type
78	1b	604	G
78	1b	609	G
78	1b	610	G
78	1b	611	A
78	1b	620	U
78	1b	621	A
78	1b	622	A
78	1b	632	G
78	1b	636	C
78	1b	637	C
78	1b	638	C
78	1b	645	A
78	1b	649	A
78	1b	661	G
78	1b	667	C
78	1b	672	A
78	1b	677	A
78	1b	678	G
78	1b	681	U
78	1b	683	U
78	1b	690	A
78	1b	691	A
78	1b	699	A
78	1b	705	A
78	1b	712	G
78	1b	715	A
78	1b	716	A
78	1b	717	C
78	1b	718	G
78	1b	719	U
78	1b	720	A
78	1b	721	G
78	1b	737	G
78	1b	742	G
78	1b	758	C
78	1b	763	G
78	1b	764	U
78	1b	765	C
78	1b	766	U
78	1b	767	U
78	1b	771	A
78	1b	774	G

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Mol	Chain	Res	Type
78	1b	776	U
78	1b	777	U
78	1b	781	G
78	1b	783	A
78	1b	785	G
78	1b	786	A
78	1b	806	A
78	1b	808	A
78	1b	814	U
78	1b	815	G
78	1b	816	A
78	1b	817	A
78	1b	818	C
78	1b	830	A
78	1b	831	G
78	1b	832	G
78	1b	834	U
78	1b	847	A
78	1b	848	A
78	1b	849	C
78	1b	860	G
78	1b	861	C
78	1b	867	G
78	1b	871	U
78	1b	873	C
78	1b	874	U
78	1b	875	G
78	1b	878	G
78	1b	879	U
78	1b	880	G
78	1b	881	C
78	1b	883	A
78	1b	894	G
78	1b	895	A
78	1b	907	G
78	1b	908	G
78	1b	909	G
78	1b	914	A
78	1b	915	A
78	1b	916	G
78	1b	917	A
78	1b	921	A

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Mol	Chain	Res	Type
78	1b	923	C
78	1b	924	G
78	1b	926	A
78	1b	932	U
78	1b	933	A
78	1b	935	U
78	1b	937	G
78	1b	944	C
78	1b	959	C
78	1b	960	U
78	1b	962	A
78	1b	974	G
78	1b	977	C
78	1b	979	U
78	1b	980	A
78	1b	981	U
78	1b	982	C
78	1b	984	G
78	1b	991	G
78	1b	994	G
78	1b	995	U
78	1b	1001	G
78	1b	1002	A
78	1b	1009	A
78	1b	1010	G
78	1b	1015	U
78	1b	1017	C
78	1b	1018	G
78	1b	1020	G
78	1b	1024	G
78	1b	1026	A
78	1b	1029	G
78	1b	1032	C
78	1b	1035	G
78	1b	1036	A
78	1b	1037	C
78	1b	1038	C
78	1b	1041	U
78	1b	1045	C
78	1b	1047	A
78	1b	1049	C
78	1b	1064	A

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Mol	Chain	Res	Type
78	1b	1065	A
78	1b	1072	G
78	1b	1079	A
78	1b	1081	U
78	1b	1083	G
78	1b	1084	A
78	1b	1093	A
78	1b	1094	U
78	1b	1095	U
78	1b	1097	G
78	1b	1098	A
78	1b	1100	U
78	1b	1103	A
78	1b	1104	G
78	1b	1116	G
78	1b	1117	G
78	1b	1131	G
78	1b	1132	C
78	1b	1139	G
78	1b	1150	A
78	1b	1151	U
78	1b	1152	G
78	1b	1153	A
78	1b	1155	C
78	1b	1159	A
78	1b	1160	C
78	1b	1174	G
78	1b	1178	G
78	1b	1179	A
78	1b	1180	A
78	1b	1181	U
78	1b	1182	A
78	1b	1191	U
78	1b	1192	C
78	1b	1193	A
78	1b	1196	C
78	1b	1199	C
78	1b	1200	A
78	1b	1201	C
78	1b	1207	G
78	1b	1208	U
78	1b	1209	G

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Mol	Chain	Res	Type
78	1b	1216	C
78	1b	1217	A
78	1b	1222	G
78	1b	1227	C
78	1b	1229	G
78	1b	1232	C
78	1b	1233	G
78	1b	1236	G
78	1b	1238	C
78	1b	1240	A
78	1b	1241	U
78	1b	1242	G
78	1b	1243	G
78	1b	1244	A
78	1b	1245	A
78	1b	1246	G
78	1b	1248	C
78	1b	1251	A
78	1b	1253	U
78	1b	1254	C
78	1b	1262	G
78	1b	1263	A
78	1b	1264	G
78	1b	1265	U
78	1b	1266	G
78	1b	1269	U
78	1b	1270	A
78	1b	1271	A
78	1b	1272	C
78	1b	1274	A
78	1b	1278	A
78	1b	1279	C
78	1b	1280	C
78	1b	1282	G
78	1b	1286	A
78	1b	1287	A
78	1b	1295	G
78	1b	1300	G
78	1b	1301	A
78	1b	1302	A
78	1b	1303	A
78	1b	1305	U

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Mol	Chain	Res	Type
78	1b	1306	G
78	1b	1308	A
78	1b	1309	U
78	1b	1313	G
78	1b	1317	A
78	1b	1325	U
78	1b	1330	A
78	1b	1343	A
78	1b	1345	G
78	1b	1348	U
78	1b	1349	G
78	1b	1351	U
78	1b	1352	A
78	1b	1353	U
78	1b	1354	G
78	1b	1356	U
78	1b	1357	G
78	1b	1379	G
78	1b	1386	A
78	1b	1392	G
78	1b	1399	A
78	1b	1400	G
78	1b	1419	A
78	1b	1425	U
78	1b	1428	A
78	1b	1429	G
78	1b	1430	U
78	1b	1432	C
78	1b	1434	G
78	1b	1437	C
78	1b	1443	G
78	1b	1445	U
78	1b	1446	A
78	1b	1450	G
78	1b	1451	C
78	1b	1452	A
78	1b	1453	A
78	1b	1455	U
78	1b	1456	A
78	1b	1477	A
78	1b	1481	A
78	1b	1482	A

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Mol	Chain	Res	Type
78	1b	1483	G
78	1b	1484	U
78	1b	1488	G
78	1b	1493	G
78	1b	1494	U
78	1b	1495	U
78	1b	1497	C
78	1b	1503	A
78	1b	1508	C
78	1b	1515	A
78	1b	1523	U
78	1b	1530	U
78	1b	1533	U
78	1b	1535	A
78	1b	1542	G
78	1b	1544	G
78	1b	1546	A
78	1b	1548	C
78	1b	1556	C
78	1b	1557	A
78	1b	1559	A
78	1b	1560	G
78	1b	1562	C
78	1b	1563	C
78	1b	1565	G
78	1b	1568	U
78	1b	1569	U
78	1b	1571	A
78	1b	1572	U
78	1b	1573	G
78	1b	1574	C
78	1b	1575	A
78	1b	1576	G
78	1b	1579	C
78	1b	1580	A
78	1b	1581	C
78	1b	1582	C
78	1b	1583	A
78	1b	1587	A
78	1b	1588	A
78	1b	1589	A
78	1b	1590	G

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Mol	Chain	Res	Type
78	1b	1591	G
78	1b	1593	A
78	1b	1595	U
78	1b	1596	C
78	1b	1602	A
78	1b	1603	A
78	1b	1607	U
78	1b	1608	C
78	1b	1609	C
78	1b	1619	A
78	1b	1620	U
78	1b	1629	U
78	1b	1631	C
78	1b	1636	U
78	1b	1639	C
78	1b	1642	A
78	1b	1643	A
78	1b	1645	U
78	1b	1658	G
78	1b	1677	G
78	1b	1683	A
78	1b	1689	U
78	1b	1693	C
78	1b	1704	A
78	1b	1712	G
78	1b	1716	U
78	1b	1717	U
78	1b	1720	U
78	1b	1722	U
78	1b	1724	U
78	1b	1725	C
78	1b	1731	A
78	1b	1736	G
78	1b	1741	A
78	1b	1745	C
78	1b	1750	A
78	1b	1751	G
78	1b	1760	A
78	1b	1762	C
78	1b	1763	U
78	1b	1765	U
78	1b	1766	G

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Mol	Chain	Res	Type
78	1b	1770	G
78	1b	1775	G
78	1b	1780	G
78	1b	1781	C
78	1b	1791	C
78	1b	1797	A
78	1b	1799	A
78	1b	1814	A
78	1b	1816	A
78	1b	1817	G
78	1b	1819	U
78	1b	1820	U
78	1b	1821	U
78	1b	1834	U
78	1b	1835	A
78	1b	1840	U
78	1b	1841	A
78	1b	1842	A
78	1b	1844	C
78	1b	1845	G
78	1b	1846	C
78	1b	1847	A
78	1b	1848	G
78	1b	1849	C
78	1b	1850	A
78	1b	1851	G
78	1b	1866	C
78	1b	1867	A
78	1b	1876	U
78	1b	1880	U
78	1b	1884	A
78	1b	1886	A
78	1b	1889	G
78	1b	1893	A
78	1b	1896	A
78	1b	1897	G
78	1b	1902	G
78	1b	1904	C
78	1b	1905	G
78	1b	1906	G
78	1b	1923	C
78	1b	1926	C

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Mol	Chain	Res	Type
78	1b	1930	A
78	1b	1932	A
78	1b	1943	C
78	1b	1952	G
78	1b	1953	G
78	1b	1954	G
78	1b	2094	C
78	1b	2101	C
78	1b	2102	U
78	1b	2111	G
78	1b	2112	U
78	1b	2113	A
78	1b	2114	C
78	1b	2121	G
78	1b	2122	G
78	1b	2126	A
78	1b	2131	A
78	1b	2139	A
78	1b	2142	A
78	1b	2149	A
78	1b	2157	G
78	1b	2158	A
78	1b	2168	A
78	1b	2169	G
78	1b	2184	U
78	1b	2188	A
78	1b	2193	U
78	1b	2194	G
78	1b	2205	U
78	1b	2208	A
78	1b	2209	U
78	1b	2210	G
78	1b	2222	A
78	1b	2223	A
78	1b	2232	A
78	1b	2244	A
78	1b	2249	G
78	1b	2255	A
78	1b	2256	A
78	1b	2257	C
78	1b	2270	A
78	1b	2272	G

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Mol	Chain	Res	Type
78	1b	2273	G
78	1b	2274	U
78	1b	2279	A
78	1b	2281	A
78	1b	2282	U
78	1b	2283	G
78	1b	2285	C
78	1b	2286	U
78	1b	2287	C
78	1b	2288	G
78	1b	2289	U
78	1b	2295	A
78	1b	2298	U
78	1b	2303	A
78	1b	2307	G
78	1b	2308	C
78	1b	2309	A
78	1b	2310	U
78	1b	2314	U
78	1b	2315	G
78	1b	2326	A
78	1b	2334	U
78	1b	2335	G
78	1b	2336	U
78	1b	2337	C
78	1b	2341	A
78	1b	2347	U
78	1b	2352	A
78	1b	2356	A
78	1b	2361	A
78	1b	2365	C
78	1b	2372	A
78	1b	2373	A
78	1b	2374	C
78	1b	2375	G
78	1b	2386	A
78	1b	2388	U
78	1b	2397	A
78	1b	2402	A
78	1b	2403	G
78	1b	2404	A
78	1b	2405	C

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Mol	Chain	Res	Type
78	1b	2411	U
78	1b	2412	G
78	1b	2418	G
78	1b	2419	A
78	1b	2420	C
78	1b	2422	C
78	1b	2437	G
78	1b	2439	A
78	1b	2443	A
78	1b	2445	A
78	1b	2446	U
78	1b	2447	A
78	1b	2451	G
78	1b	2452	G
78	1b	2496	C
78	1b	2498	U
78	1b	2499	U
78	1b	2501	U
78	1b	2502	A
78	1b	2504	U
78	1b	2505	U
78	1b	2506	U
78	1b	2507	C
78	1b	2508	U
78	1b	2511	A
78	1b	2512	C
78	1b	2515	A
78	1b	2516	U
78	1b	2522	G
78	1b	2524	A
78	1b	2525	G
78	1b	2526	C
78	1b	2531	C
78	1b	2533	G
78	1b	2537	U
78	1b	2538	U
78	1b	2539	C
78	1b	2540	A
78	1b	2541	U
78	1b	2542	U
78	1b	2543	U
78	1b	2544	U

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Mol	Chain	Res	Type
78	1b	2548	C
78	1b	2549	G
78	1b	2552	C
78	1b	2561	A
78	1b	2569	A
78	1b	2570	U
78	1b	2571	U
78	1b	2572	C
78	1b	2573	G
78	1b	2580	A
78	1b	2582	C
78	1b	2585	G
78	1b	2593	A
78	1b	2594	C
78	1b	2595	A
78	1b	2606	G
78	1b	2607	G
78	1b	2608	G
78	1b	2614	G
78	1b	2619	G
78	1b	2626	A
78	1b	2629	U
78	1b	2635	A
78	1b	2636	A
78	1b	2637	A
78	1b	2645	G
78	1b	2652	U
78	1b	2655	U
78	1b	2656	A
78	1b	2658	G
78	1b	2665	U
78	1b	2672	G
78	1b	2674	A
78	1b	2677	G
78	1b	2680	A
78	1b	2688	U
78	1b	2689	A
78	1b	2691	A
78	1b	2694	A
78	1b	2696	A
78	1b	2703	A
78	1b	2704	A

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Mol	Chain	Res	Type
78	1b	2705	A
78	1b	2714	G
78	1b	2716	U
78	1b	2719	U
78	1b	2728	G
78	1b	2729	U
78	1b	2742	C
78	1b	2746	A
78	1b	2753	G
78	1b	2755	C
78	1b	2756	C
78	1b	2757	U
78	1b	2762	A
78	1b	2772	C
78	1b	2776	C
78	1b	2777	G
78	1b	2778	G
78	1b	2787	G
78	1b	2790	A
78	1b	2794	G
78	1b	2795	U
78	1b	2796	G
78	1b	2799	A
78	1b	2800	G
78	1b	2801	A
78	1b	2803	A
78	1b	2804	A
78	1b	2805	G
78	1b	2810	C
78	1b	2814	G
78	1b	2816	G
78	1b	2817	A
78	1b	2818	U
78	1b	2821	C
78	1b	2822	U
78	1b	2834	G
78	1b	2836	C
78	1b	2838	A
78	1b	2842	U
78	1b	2845	A
78	1b	2847	A
78	1b	2849	C

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Mol	Chain	Res	Type
78	1b	2856	G
78	1b	2860	U
78	1b	2861	U
78	1b	2867	C
78	1b	2871	G
78	1b	2872	A
78	1b	2873	U
78	1b	2875	U
78	1b	2887	A
78	1b	2889	C
78	1b	2896	A
78	1b	2898	G
78	1b	2899	C
78	1b	2912	G
78	1b	2914	G
78	1b	2923	U
78	1b	2928	C
78	1b	2932	U
78	1b	2933	A
78	1b	2935	U
78	1b	2936	A
78	1b	2938	G
78	1b	2941	A
78	1b	2942	C
78	1b	2943	G
78	1b	2946	A
78	1b	2947	G
78	1b	2953	U
78	1b	2954	U
78	1b	2965	U
78	1b	2967	A
78	1b	2968	G
78	1b	2971	A
78	1b	2979	U
78	1b	2983	C
78	1b	2990	G
78	1b	2997	G
78	1b	3003	G
78	1b	3004	C
78	1b	3006	A
78	1b	3012	A
78	1b	3021	A

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Mol	Chain	Res	Type
78	1b	3027	A
78	1b	3059	G
78	1b	3077	A
78	1b	3078	U
78	1b	3079	U
78	1b	3080	G
78	1b	3084	C
78	1b	3086	A
78	1b	3092	C
78	1b	3093	C
78	1b	3099	C
78	1b	3101	G
78	1b	3104	U
78	1b	3110	C
78	1b	3115	C
78	1b	3116	G
78	1b	3119	U
78	1b	3122	A
78	1b	3128	G
78	1b	3130	A
78	1b	3131	U
78	1b	3142	A
78	1b	3143	C
78	1b	3144	G
78	1b	3151	U
78	1b	3152	U
78	1b	3154	C
78	1b	3155	U
78	1b	3156	U
78	1b	3157	U
78	1b	3165	A
78	1b	3173	G
78	1b	3174	A
78	1b	3175	U
78	1b	3176	G
78	1b	3179	U
78	1b	3180	A
78	1b	3181	C
78	1b	3186	A
78	1b	3187	A
78	1b	3196	U
78	1b	3197	G

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Mol	Chain	Res	Type
78	1b	3199	G
78	1b	3207	U
78	1b	3210	A
78	1b	3217	C
78	1b	3218	A
78	1b	3219	G
78	1b	3222	U
78	1b	3229	G
78	1b	3235	C
78	1b	3242	G
78	1b	3245	A
78	1b	3246	G
78	1b	3247	G
78	1b	3259	U
78	1b	3263	G
78	1b	3270	U
78	1b	3272	C
78	1b	3273	A
78	1b	3275	U
78	1b	3276	G
78	1b	3279	A
78	1b	3281	U
78	1b	3287	U
78	1b	3288	G
78	1b	3289	G
78	1b	3294	A
78	1b	3295	A
78	1b	3304	U
78	1b	3307	A
78	1b	3313	U
78	1b	3316	A
78	1b	3317	U
78	1b	3318	G
78	1b	3319	U
78	1b	3320	A
78	1b	3330	A
78	1b	3332	U
78	1b	3334	U
78	1b	3341	U
78	1b	3345	G
78	1b	3347	A
78	1b	3351	U

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Mol	Chain	Res	Type
78	1b	3352	U
78	1b	3353	G
78	1b	3354	U
78	1b	3355	U
78	1b	3356	G
78	1b	3368	U
78	1b	3369	G
78	1b	3375	A
78	1b	3377	G
78	1b	3378	C
78	1b	3382	U
78	1b	3389	U
78	1b	3390	G
79	6b	14	A
79	6b	16	U
79	6b	17	U
79	6b	18	G
79	6b	19	G
79	6b	21	A
79	6b	24	G
79	6b	32	C
79	6b	34	U
79	6b	41	G
79	6b	47	U
79	6b	48	C
79	6b	52	G
79	6b	58	A
79	6b	73	G
79	6b	76	A
1	a	2	A
1	a	4	C
1	a	5	U
1	a	6	G
1	a	8	U
1	a	16	G
1	a	25	C
1	a	26	A
1	a	27	U
1	a	34	G
1	a	42	G
1	a	43	A
1	a	45	U

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Mol	Chain	Res	Type
1	a	47	A
1	a	50	C
1	a	57	G
1	a	59	C
1	a	63	G
1	a	67	A
1	a	68	A
1	a	69	G
1	a	72	A
1	a	73	U
1	a	74	U
1	a	75	U
1	a	76	A
1	a	77	U
1	a	104	A
1	a	106	U
1	a	111	U
1	a	112	A
1	a	114	C
1	a	115	G
1	a	116	U
1	a	126	A
1	a	127	G
1	a	131	C
1	a	132	U
1	a	133	U
1	a	134	U
1	a	135	A
1	a	136	C
1	a	137	U
1	a	138	A
1	a	140	A
1	a	141	U
1	a	144	U
1	a	146	U
1	a	153	G
1	a	158	U
1	a	159	U
1	a	160	C
1	a	166	C
1	a	178	U
1	a	184	C

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Mol	Chain	Res	Type
1	a	185	U
1	a	186	C
1	a	189	C
1	a	190	C
1	a	191	C
1	a	192	U
1	a	194	U
1	a	195	G
1	a	196	G
1	a	197	A
1	a	200	A
1	a	215	A
1	a	218	A
1	a	219	A
1	a	220	A
1	a	226	A
1	a	227	U
1	a	229	U
1	a	233	C
1	a	234	G
1	a	236	A
1	a	238	U
1	a	239	C
1	a	240	U
1	a	241	U
1	a	243	G
1	a	250	C
1	a	257	A
1	a	261	U
1	a	265	A
1	a	270	C
1	a	271	A
1	a	272	U
1	a	274	G
1	a	276	C
1	a	277	U
1	a	278	U
1	a	279	G
1	a	280	U
1	a	281	G
1	a	284	G
1	a	288	A

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Mol	Chain	Res	Type
1	a	290	G
1	a	299	A
1	a	308	C
1	a	314	C
1	a	316	A
1	a	321	C
1	a	322	G
1	a	325	G
1	a	331	A
1	a	332	U
1	a	337	G
1	a	338	C
1	a	346	G
1	a	352	A
1	a	359	A
1	a	360	A
1	a	361	C
1	a	377	G
1	a	380	U
1	a	387	A
1	a	388	G
1	a	390	G
1	a	400	A
1	a	402	C
1	a	403	G
1	a	404	G
1	a	411	C
1	a	416	A
1	a	417	A
1	a	418	G
1	a	419	G
1	a	424	C
1	a	425	A
1	a	426	G
1	a	434	G
1	a	435	C
1	a	437	A
1	a	439	U
1	a	444	C
1	a	448	C
1	a	456	A
1	a	460	A

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Mol	Chain	Res	Type
1	a	470	A
1	a	475	A
1	a	477	A
1	a	480	G
1	a	484	C
1	a	485	A
1	a	486	G
1	a	487	G
1	a	488	G
1	a	493	U
1	a	494	U
1	a	495	C
1	a	496	G
1	a	497	G
1	a	498	G
1	a	499	U
1	a	500	C
1	a	501	U
1	a	502	U
1	a	504	U
1	a	505	A
1	a	506	A
1	a	507	U
1	a	508	U
1	a	510	G
1	a	511	A
1	a	512	A
1	a	513	U
1	a	514	G
1	a	515	A
1	a	519	C
1	a	525	A
1	a	527	A
1	a	532	U
1	a	536	C
1	a	539	G
1	a	540	G
1	a	541	A
1	a	542	A
1	a	543	C
1	a	544	A
1	a	545	A

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Mol	Chain	Res	Type
1	a	550	A
1	a	551	G
1	a	553	G
1	a	555	A
1	a	556	A
1	a	557	G
1	a	558	U
1	a	559	C
1	a	565	C
1	a	568	G
1	a	570	A
1	a	571	G
1	a	578	U
1	a	579	A
1	a	580	A
1	a	585	A
1	a	594	A
1	a	595	G
1	a	605	A
1	a	609	U
1	a	619	A
1	a	620	A
1	a	622	A
1	a	623	A
1	a	624	G
1	a	635	A
1	a	639	U
1	a	648	G
1	a	649	U
1	a	650	U
1	a	653	C
1	a	654	C
1	a	655	G
1	a	656	G
1	a	658	C
1	a	677	G
1	a	679	U
1	a	682	C
1	a	684	A
1	a	685	A
1	a	686	C
1	a	687	G

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Mol	Chain	Res	Type
1	a	694	U
1	a	696	C
1	a	697	C
1	a	702	G
1	a	703	G
1	a	704	C
1	a	705	U
1	a	707	A
1	a	708	C
1	a	709	C
1	a	710	U
1	a	712	G
1	a	714	G
1	a	718	U
1	a	719	U
1	a	720	G
1	a	721	U
1	a	722	G
1	a	723	G
1	a	725	U
1	a	727	U
1	a	728	U
1	a	731	C
1	a	732	G
1	a	733	A
1	a	734	A
1	a	735	C
1	a	736	C
1	a	738	G
1	a	741	C
1	a	742	U
1	a	743	U
1	a	745	U
1	a	754	A
1	a	755	A
1	a	756	A
1	a	765	G
1	a	766	U
1	a	768	C
1	a	771	A
1	a	774	A
1	a	778	G

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Mol	Chain	Res	Type
1	a	780	A
1	a	781	U
1	a	782	U
1	a	783	G
1	a	784	C
1	a	787	G
1	a	789	A
1	a	794	U
1	a	795	U
1	a	803	A
1	a	806	A
1	a	812	A
1	a	814	A
1	a	815	G
1	a	818	C
1	a	819	G
1	a	820	U
1	a	821	U
1	a	822	U
1	a	823	G
1	a	824	G
1	a	829	A
1	a	830	U
1	a	831	U
1	a	833	U
1	a	839	U
1	a	840	U
1	a	841	U
1	a	846	G
1	a	850	A
1	a	851	U
1	a	852	C
1	a	860	U
1	a	862	A
1	a	863	A
1	a	873	U
1	a	876	G
1	a	886	U
1	a	898	A
1	a	899	G
1	a	904	G
1	a	912	U

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Mol	Chain	Res	Type
1	a	913	G
1	a	914	G
1	a	915	A
1	a	928	U
1	a	931	C
1	a	932	U
1	a	933	A
1	a	935	U
1	a	942	G
1	a	945	U
1	a	959	U
1	a	960	U
1	a	963	A
1	a	966	A
1	a	969	C
1	a	972	G
1	a	976	G
1	a	982	U
1	a	988	A
1	a	992	A
1	a	1003	A
1	a	1004	U
1	a	1005	A
1	a	1016	C
1	a	1020	A
1	a	1021	C
1	a	1024	U
1	a	1025	A
1	a	1028	C
1	a	1031	U
1	a	1039	A
1	a	1040	G
1	a	1043	A
1	a	1052	U
1	a	1053	G
1	a	1057	U
1	a	1058	U
1	a	1059	U
1	a	1060	U
1	a	1061	A
1	a	1073	G
1	a	1076	A

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Mol	Chain	Res	Type
1	a	1080	U
1	a	1081	A
1	a	1082	C
1	a	1083	G
1	a	1086	A
1	a	1092	A
1	a	1096	C
1	a	1097	U
1	a	1100	G
1	a	1109	G
1	a	1113	A
1	a	1124	A
1	a	1126	G
1	a	1138	A
1	a	1152	A
1	a	1158	C
1	a	1159	C
1	a	1160	A
1	a	1164	G
1	a	1167	G
1	a	1170	G
1	a	1185	U
1	a	1194	A
1	a	1196	A
1	a	1197	C
1	a	1198	G
1	a	1199	G
1	a	1200	G
1	a	1204	A
1	a	1205	C
1	a	1207	C
1	a	1217	A
1	a	1218	G
1	a	1220	C
1	a	1225	U
1	a	1226	A
1	a	1228	G
1	a	1229	G
1	a	1230	A
1	a	1239	U
1	a	1240	U
1	a	1241	G

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Mol	Chain	Res	Type
1	a	1242	A
1	a	1243	G
1	a	1244	A
1	a	1245	G
1	a	1246	C
1	a	1255	G
1	a	1256	A
1	a	1257	U
1	a	1258	U
1	a	1269	U
1	a	1285	U
1	a	1286	U
1	a	1294	G
1	a	1295	G
1	a	1307	U
1	a	1312	A
1	a	1314	U
1	a	1315	U
1	a	1316	G
1	a	1318	G
1	a	1321	A
1	a	1325	A
1	a	1338	C
1	a	1341	A
1	a	1344	A
1	a	1345	A
1	a	1346	A
1	a	1348	A
1	a	1354	G
1	a	1361	U
1	a	1362	U
1	a	1363	U
1	a	1367	G
1	a	1371	A
1	a	1372	U
1	a	1378	U
1	a	1380	U
1	a	1383	G
1	a	1390	U
1	a	1398	U
1	a	1399	C
1	a	1413	U

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Mol	Chain	Res	Type
1	a	1415	U
1	a	1427	A
1	a	1428	G
1	a	1432	U
1	a	1436	A
1	a	1444	A
1	a	1445	G
1	a	1446	A
1	a	1448	G
1	a	1451	C
1	a	1452	U
1	a	1454	G
1	a	1455	G
1	a	1458	G
1	a	1459	C
1	a	1460	A
1	a	1467	C
1	a	1471	A
1	a	1478	G
1	a	1481	C
1	a	1482	C
1	a	1486	G
1	a	1489	U
1	a	1490	C
1	a	1491	U
1	a	1492	A
1	a	1493	A
1	a	1496	U
1	a	1506	G
1	a	1514	U
1	a	1515	A
1	a	1516	A
1	a	1523	G
1	a	1524	A
1	a	1535	U
1	a	1536	G
1	a	1537	C
1	a	1538	U
1	a	1539	G
1	a	1540	G
1	a	1542	G
1	a	1550	A

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Mol	Chain	Res	Type
1	a	1553	G
1	a	1554	U
1	a	1555	A
1	a	1557	U
1	a	1559	A
1	a	1568	C
1	a	1569	A
1	a	1574	G
1	a	1582	U
1	a	1584	G
1	a	1590	G
1	a	1596	C
1	a	1597	A
1	a	1598	U
1	a	1600	A
1	a	1601	G
1	a	1607	G
1	a	1616	G
1	a	1619	C
1	a	1621	U
1	a	1634	C
1	a	1636	C
1	a	1642	G
1	a	1656	U
1	a	1657	U
1	a	1658	G
1	a	1663	G
1	a	1665	U
1	a	1666	U
1	a	1678	A
1	a	1680	G
1	a	1681	A
1	a	1682	U
1	a	1715	G
1	a	1716	C
1	a	1719	A
1	a	1720	G
1	a	1741	U
1	a	1742	U
1	a	1749	A
1	a	1754	A
1	a	1755	A

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Mol	Chain	Res	Type
1	a	1756	A
1	a	1757	G
1	a	1760	G
1	a	1766	A
1	a	1767	G
1	a	1769	U
1	a	1770	U
1	a	1780	G
1	a	1782	A
1	a	1783	C
1	a	1792	G
1	a	1793	G
1	a	1794	A
1	a	1795	U
1	a	1796	C
1	a	1799	U
1	a	1800	A
78	Aa	6	A
78	Aa	11	A
78	Aa	14	U
78	Aa	18	G
78	Aa	26	A
78	Aa	30	G
78	Aa	38	U
78	Aa	40	A
78	Aa	43	A
78	Aa	49	A
78	Aa	50	U
78	Aa	59	G
78	Aa	60	A
78	Aa	65	A
78	Aa	66	A
78	Aa	73	C
78	Aa	74	G
78	Aa	77	A
78	Aa	86	G
78	Aa	89	A
78	Aa	92	G
78	Aa	108	A
78	Aa	109	A
78	Aa	110	G
78	Aa	113	C

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Mol	Chain	Res	Type
78	Aa	115	A
78	Aa	121	A
78	Aa	122	A
78	Aa	133	U
78	Aa	134	U
78	Aa	135	C
78	Aa	136	G
78	Aa	146	U
78	Aa	147	U
78	Aa	150	A
78	Aa	152	U
78	Aa	156	G
78	Aa	157	A
78	Aa	161	G
78	Aa	165	A
78	Aa	166	C
78	Aa	169	U
78	Aa	171	G
78	Aa	180	C
78	Aa	182	U
78	Aa	187	A
78	Aa	190	U
78	Aa	191	U
78	Aa	199	A
78	Aa	200	C
78	Aa	201	A
78	Aa	210	U
78	Aa	211	A
78	Aa	218	G
78	Aa	219	A
78	Aa	221	A
78	Aa	222	A
78	Aa	239	G
78	Aa	240	U
78	Aa	241	G
78	Aa	245	U
78	Aa	246	U
78	Aa	248	U
78	Aa	251	G
78	Aa	252	U
78	Aa	253	A
78	Aa	254	A

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Mol	Chain	Res	Type
78	Aa	263	C
78	Aa	267	G
78	Aa	268	A
78	Aa	269	G
78	Aa	281	G
78	Aa	282	G
78	Aa	283	G
78	Aa	284	A
78	Aa	285	A
78	Aa	286	U
78	Aa	294	U
78	Aa	295	A
78	Aa	311	C
78	Aa	323	A
78	Aa	324	A
78	Aa	329	U
78	Aa	334	A
78	Aa	338	A
78	Aa	339	C
78	Aa	343	U
78	Aa	344	A
78	Aa	346	C
78	Aa	347	G
78	Aa	349	A
78	Aa	350	C
78	Aa	351	A
78	Aa	353	G
78	Aa	361	A
78	Aa	362	U
78	Aa	376	G
78	Aa	379	C
78	Aa	390	G
78	Aa	395	A
78	Aa	398	A
78	Aa	399	A
78	Aa	401	U
78	Aa	402	A
78	Aa	403	C
78	Aa	420	G
78	Aa	421	G
78	Aa	422	A
78	Aa	424	G

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Mol	Chain	Res	Type
78	Aa	439	C
78	Aa	440	A
78	Aa	503	C
78	Aa	515	C
78	Aa	520	U
78	Aa	521	A
78	Aa	523	A
78	Aa	535	G
78	Aa	536	U
78	Aa	545	U
78	Aa	546	C
78	Aa	548	G
78	Aa	551	A
78	Aa	555	U
78	Aa	556	U
78	Aa	557	A
78	Aa	559	A
78	Aa	569	A
78	Aa	578	A
78	Aa	579	G
78	Aa	594	U
78	Aa	597	G
78	Aa	600	G
78	Aa	603	A
78	Aa	604	G
78	Aa	609	G
78	Aa	610	G
78	Aa	611	A
78	Aa	620	U
78	Aa	621	A
78	Aa	622	A
78	Aa	632	G
78	Aa	636	C
78	Aa	643	U
78	Aa	645	A
78	Aa	648	C
78	Aa	649	A
78	Aa	660	A
78	Aa	677	A
78	Aa	681	U
78	Aa	683	U
78	Aa	688	G

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Mol	Chain	Res	Type
78	Aa	690	A
78	Aa	691	A
78	Aa	702	C
78	Aa	705	A
78	Aa	708	G
78	Aa	712	G
78	Aa	716	A
78	Aa	719	U
78	Aa	721	G
78	Aa	725	G
78	Aa	726	G
78	Aa	734	C
78	Aa	736	A
78	Aa	737	G
78	Aa	763	G
78	Aa	766	U
78	Aa	774	G
78	Aa	776	U
78	Aa	777	U
78	Aa	780	A
78	Aa	781	G
78	Aa	785	G
78	Aa	786	A
78	Aa	787	G
78	Aa	799	G
78	Aa	800	G
78	Aa	806	A
78	Aa	808	A
78	Aa	815	G
78	Aa	817	A
78	Aa	818	C
78	Aa	826	G
78	Aa	830	A
78	Aa	832	G
78	Aa	846	A
78	Aa	849	C
78	Aa	858	A
78	Aa	861	C
78	Aa	867	G
78	Aa	871	U
78	Aa	874	U
78	Aa	875	G

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Mol	Chain	Res	Type
78	Aa	878	G
78	Aa	879	U
78	Aa	880	G
78	Aa	884	A
78	Aa	890	C
78	Aa	897	U
78	Aa	907	G
78	Aa	908	G
78	Aa	914	A
78	Aa	915	A
78	Aa	916	G
78	Aa	917	A
78	Aa	920	A
78	Aa	923	C
78	Aa	924	G
78	Aa	932	U
78	Aa	937	G
78	Aa	944	C
78	Aa	948	C
78	Aa	959	C
78	Aa	960	U
78	Aa	962	A
78	Aa	963	G
78	Aa	974	G
78	Aa	979	U
78	Aa	980	A
78	Aa	981	U
78	Aa	984	G
78	Aa	991	G
78	Aa	995	U
78	Aa	1001	G
78	Aa	1002	A
78	Aa	1010	G
78	Aa	1014	U
78	Aa	1015	U
78	Aa	1016	C
78	Aa	1017	C
78	Aa	1018	G
78	Aa	1021	G
78	Aa	1024	G
78	Aa	1025	A
78	Aa	1026	A

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Mol	Chain	Res	Type
78	Aa	1028	U
78	Aa	1029	G
78	Aa	1032	C
78	Aa	1034	U
78	Aa	1035	G
78	Aa	1041	U
78	Aa	1047	A
78	Aa	1048	A
78	Aa	1049	C
78	Aa	1063	G
78	Aa	1064	A
78	Aa	1065	A
78	Aa	1072	G
78	Aa	1079	A
78	Aa	1081	U
78	Aa	1082	U
78	Aa	1085	A
78	Aa	1087	G
78	Aa	1093	A
78	Aa	1096	U
78	Aa	1097	G
78	Aa	1098	A
78	Aa	1102	A
78	Aa	1103	A
78	Aa	1104	G
78	Aa	1115	G
78	Aa	1116	G
78	Aa	1117	G
78	Aa	1129	A
78	Aa	1131	G
78	Aa	1135	A
78	Aa	1140	G
78	Aa	1143	A
78	Aa	1153	A
78	Aa	1155	C
78	Aa	1159	A
78	Aa	1160	C
78	Aa	1161	G
78	Aa	1178	G
78	Aa	1180	A
78	Aa	1181	U
78	Aa	1182	A

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Mol	Chain	Res	Type
78	Aa	1189	C
78	Aa	1190	A
78	Aa	1191	U
78	Aa	1198	C
78	Aa	1199	C
78	Aa	1201	C
78	Aa	1202	A
78	Aa	1222	G
78	Aa	1223	A
78	Aa	1236	G
78	Aa	1237	G
78	Aa	1239	C
78	Aa	1242	G
78	Aa	1243	G
78	Aa	1245	A
78	Aa	1246	G
78	Aa	1259	A
78	Aa	1262	G
78	Aa	1263	A
78	Aa	1264	G
78	Aa	1265	U
78	Aa	1270	A
78	Aa	1277	C
78	Aa	1281	G
78	Aa	1285	G
78	Aa	1286	A
78	Aa	1292	C
78	Aa	1295	G
78	Aa	1301	A
78	Aa	1303	A
78	Aa	1305	U
78	Aa	1307	G
78	Aa	1308	A
78	Aa	1309	U
78	Aa	1310	G
78	Aa	1313	G
78	Aa	1314	C
78	Aa	1316	C
78	Aa	1317	A
78	Aa	1325	U
78	Aa	1330	A
78	Aa	1346	G

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Mol	Chain	Res	Type
78	Aa	1348	U
78	Aa	1354	G
78	Aa	1355	A
78	Aa	1356	U
78	Aa	1357	G
78	Aa	1385	C
78	Aa	1386	A
78	Aa	1387	G
78	Aa	1397	C
78	Aa	1399	A
78	Aa	1400	G
78	Aa	1419	A
78	Aa	1421	G
78	Aa	1428	A
78	Aa	1429	G
78	Aa	1433	A
78	Aa	1434	G
78	Aa	1435	A
78	Aa	1436	U
78	Aa	1437	C
78	Aa	1443	G
78	Aa	1446	A
78	Aa	1451	C
78	Aa	1452	A
78	Aa	1453	A
78	Aa	1455	U
78	Aa	1457	U
78	Aa	1464	G
78	Aa	1465	A
78	Aa	1470	U
78	Aa	1475	A
78	Aa	1481	A
78	Aa	1482	A
78	Aa	1494	U
78	Aa	1495	U
78	Aa	1496	C
78	Aa	1503	A
78	Aa	1508	C
78	Aa	1511	U
78	Aa	1523	U
78	Aa	1528	G
78	Aa	1539	A

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Mol	Chain	Res	Type
78	Aa	1541	G
78	Aa	1546	A
78	Aa	1548	C
78	Aa	1549	U
78	Aa	1554	U
78	Aa	1555	U
78	Aa	1556	C
78	Aa	1558	A
78	Aa	1560	G
78	Aa	1561	G
78	Aa	1562	C
78	Aa	1574	C
78	Aa	1575	A
78	Aa	1576	G
78	Aa	1577	G
78	Aa	1578	C
78	Aa	1579	C
78	Aa	1580	A
78	Aa	1581	C
78	Aa	1582	C
78	Aa	1583	A
78	Aa	1587	A
78	Aa	1589	A
78	Aa	1602	A
78	Aa	1605	A
78	Aa	1607	U
78	Aa	1620	U
78	Aa	1629	U
78	Aa	1636	U
78	Aa	1639	C
78	Aa	1642	A
78	Aa	1643	A
78	Aa	1644	C
78	Aa	1645	U
78	Aa	1655	G
78	Aa	1656	A
78	Aa	1658	G
78	Aa	1662	G
78	Aa	1677	G
78	Aa	1683	A
78	Aa	1705	U
78	Aa	1715	A

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Mol	Chain	Res	Type
78	Aa	1716	U
78	Aa	1717	U
78	Aa	1718	G
78	Aa	1720	U
78	Aa	1722	U
78	Aa	1724	U
78	Aa	1736	G
78	Aa	1741	A
78	Aa	1750	A
78	Aa	1751	G
78	Aa	1756	C
78	Aa	1760	A
78	Aa	1762	C
78	Aa	1764	U
78	Aa	1765	U
78	Aa	1766	G
78	Aa	1767	C
78	Aa	1770	G
78	Aa	1773	C
78	Aa	1775	G
78	Aa	1780	G
78	Aa	1788	C
78	Aa	1793	C
78	Aa	1796	G
78	Aa	1797	A
78	Aa	1808	G
78	Aa	1809	A
78	Aa	1813	A
78	Aa	1814	A
78	Aa	1816	A
78	Aa	1817	G
78	Aa	1818	U
78	Aa	1821	U
78	Aa	1822	C
78	Aa	1839	A
78	Aa	1840	U
78	Aa	1842	A
78	Aa	1845	G
78	Aa	1846	C
78	Aa	1848	G
78	Aa	1849	C
78	Aa	1854	C

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Mol	Chain	Res	Type
78	Aa	1864	A
78	Aa	1866	C
78	Aa	1878	G
78	Aa	1879	A
78	Aa	1880	U
78	Aa	1881	A
78	Aa	1884	A
78	Aa	1886	A
78	Aa	1889	G
78	Aa	1893	A
78	Aa	1896	A
78	Aa	1897	G
78	Aa	1904	C
78	Aa	1906	G
78	Aa	1930	A
78	Aa	1932	A
78	Aa	1934	G
78	Aa	1935	G
78	Aa	1938	U
78	Aa	1952	G
78	Aa	2100	A
78	Aa	2101	C
78	Aa	2102	U
78	Aa	2111	G
78	Aa	2113	A
78	Aa	2114	C
78	Aa	2119	A
78	Aa	2121	G
78	Aa	2122	G
78	Aa	2123	G
78	Aa	2131	A
78	Aa	2139	A
78	Aa	2142	A
78	Aa	2149	A
78	Aa	2158	A
78	Aa	2164	A
78	Aa	2169	G
78	Aa	2170	U
78	Aa	2178	A
78	Aa	2184	U
78	Aa	2205	U
78	Aa	2206	G

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Mol	Chain	Res	Type
78	Aa	2207	A
78	Aa	2208	A
78	Aa	2209	U
78	Aa	2210	G
78	Aa	2223	A
78	Aa	2228	A
78	Aa	2229	A
78	Aa	2243	A
78	Aa	2244	A
78	Aa	2249	G
78	Aa	2250	G
78	Aa	2251	G
78	Aa	2252	A
78	Aa	2253	G
78	Aa	2255	A
78	Aa	2256	A
78	Aa	2257	C
78	Aa	2261	G
78	Aa	2267	C
78	Aa	2269	U
78	Aa	2272	G
78	Aa	2273	G
78	Aa	2274	U
78	Aa	2276	G
78	Aa	2280	A
78	Aa	2281	A
78	Aa	2288	G
78	Aa	2298	U
78	Aa	2307	G
78	Aa	2309	A
78	Aa	2310	U
78	Aa	2313	A
78	Aa	2314	U
78	Aa	2315	G
78	Aa	2327	U
78	Aa	2335	G
78	Aa	2336	U
78	Aa	2345	A
78	Aa	2347	U
78	Aa	2360	C
78	Aa	2363	A
78	Aa	2364	G

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Mol	Chain	Res	Type
78	Aa	2369	G
78	Aa	2372	A
78	Aa	2373	A
78	Aa	2374	C
78	Aa	2375	G
78	Aa	2383	C
78	Aa	2385	G
78	Aa	2391	G
78	Aa	2392	C
78	Aa	2393	G
78	Aa	2394	G
78	Aa	2397	A
78	Aa	2398	A
78	Aa	2401	A
78	Aa	2402	A
78	Aa	2403	G
78	Aa	2404	A
78	Aa	2405	C
78	Aa	2411	U
78	Aa	2412	G
78	Aa	2418	G
78	Aa	2419	A
78	Aa	2420	C
78	Aa	2422	C
78	Aa	2424	A
78	Aa	2434	U
78	Aa	2435	G
78	Aa	2437	G
78	Aa	2441	A
78	Aa	2442	G
78	Aa	2507	C
78	Aa	2510	U
78	Aa	2511	A
78	Aa	2513	U
78	Aa	2514	U
78	Aa	2515	A
78	Aa	2522	G
78	Aa	2523	A
78	Aa	2524	A
78	Aa	2525	G
78	Aa	2526	C
78	Aa	2530	G

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Mol	Chain	Res	Type
78	Aa	2534	G
78	Aa	2535	A
78	Aa	2538	U
78	Aa	2539	C
78	Aa	2540	A
78	Aa	2541	U
78	Aa	2542	U
78	Aa	2543	U
78	Aa	2544	U
78	Aa	2545	C
78	Aa	2548	C
78	Aa	2549	G
78	Aa	2552	C
78	Aa	2554	A
78	Aa	2555	G
78	Aa	2566	C
78	Aa	2567	C
78	Aa	2568	C
78	Aa	2569	A
78	Aa	2570	U
78	Aa	2571	U
78	Aa	2572	C
78	Aa	2573	G
78	Aa	2574	G
78	Aa	2584	G
78	Aa	2585	G
78	Aa	2587	U
78	Aa	2589	G
78	Aa	2593	A
78	Aa	2594	C
78	Aa	2606	G
78	Aa	2607	G
78	Aa	2614	G
78	Aa	2619	G
78	Aa	2626	A
78	Aa	2629	U
78	Aa	2635	A
78	Aa	2638	C
78	Aa	2642	A
78	Aa	2652	U
78	Aa	2655	U
78	Aa	2656	A

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Mol	Chain	Res	Type
78	Aa	2662	G
78	Aa	2663	G
78	Aa	2672	G
78	Aa	2674	A
78	Aa	2677	G
78	Aa	2681	U
78	Aa	2683	U
78	Aa	2689	A
78	Aa	2694	A
78	Aa	2696	A
78	Aa	2702	A
78	Aa	2704	A
78	Aa	2705	A
78	Aa	2708	C
78	Aa	2712	U
78	Aa	2714	G
78	Aa	2716	U
78	Aa	2719	U
78	Aa	2720	G
78	Aa	2728	G
78	Aa	2729	U
78	Aa	2737	C
78	Aa	2749	G
78	Aa	2750	U
78	Aa	2753	G
78	Aa	2755	C
78	Aa	2760	C
78	Aa	2762	A
78	Aa	2772	C
78	Aa	2773	C
78	Aa	2778	G
78	Aa	2779	A
78	Aa	2782	U
78	Aa	2787	G
78	Aa	2796	G
78	Aa	2799	A
78	Aa	2800	G
78	Aa	2801	A
78	Aa	2803	A
78	Aa	2804	A
78	Aa	2809	C
78	Aa	2810	C

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Mol	Chain	Res	Type
78	Aa	2816	G
78	Aa	2817	A
78	Aa	2818	U
78	Aa	2819	A
78	Aa	2821	C
78	Aa	2834	G
78	Aa	2844	C
78	Aa	2845	A
78	Aa	2849	C
78	Aa	2860	U
78	Aa	2863	G
78	Aa	2867	C
78	Aa	2871	G
78	Aa	2872	A
78	Aa	2873	U
78	Aa	2876	C
78	Aa	2887	A
78	Aa	2889	C
78	Aa	2894	C
78	Aa	2899	C
78	Aa	2900	A
78	Aa	2911	A
78	Aa	2912	G
78	Aa	2918	G
78	Aa	2923	U
78	Aa	2935	U
78	Aa	2936	A
78	Aa	2938	G
78	Aa	2942	C
78	Aa	2945	G
78	Aa	2946	A
78	Aa	2947	G
78	Aa	2968	G
78	Aa	2971	A
78	Aa	2972	G
78	Aa	2979	U
78	Aa	2983	C
78	Aa	2986	U
78	Aa	2990	G
78	Aa	2995	A
78	Aa	2996	U
78	Aa	2997	G

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Mol	Chain	Res	Type
78	Aa	3011	A
78	Aa	3012	A
78	Aa	3023	U
78	Aa	3030	G
78	Aa	3049	A
78	Aa	3058	U
78	Aa	3059	G
78	Aa	3068	U
78	Aa	3074	G
78	Aa	3078	U
78	Aa	3079	U
78	Aa	3080	G
78	Aa	3085	G
78	Aa	3086	A
78	Aa	3092	C
78	Aa	3093	C
78	Aa	3101	G
78	Aa	3109	G
78	Aa	3115	C
78	Aa	3116	G
78	Aa	3122	A
78	Aa	3123	A
78	Aa	3129	A
78	Aa	3130	A
78	Aa	3131	U
78	Aa	3138	U
78	Aa	3142	A
78	Aa	3143	C
78	Aa	3145	C
78	Aa	3150	A
78	Aa	3153	U
78	Aa	3158	G
78	Aa	3159	C
78	Aa	3165	A
78	Aa	3172	A
78	Aa	3173	G
78	Aa	3174	A
78	Aa	3176	G
78	Aa	3179	U
78	Aa	3180	A
78	Aa	3181	C
78	Aa	3186	A

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Mol	Chain	Res	Type
78	Aa	3187	A
78	Aa	3195	U
78	Aa	3196	U
78	Aa	3198	U
78	Aa	3207	U
78	Aa	3208	G
78	Aa	3209	A
78	Aa	3210	A
78	Aa	3217	C
78	Aa	3218	A
78	Aa	3219	G
78	Aa	3227	A
78	Aa	3229	G
78	Aa	3238	G
78	Aa	3243	A
78	Aa	3244	A
78	Aa	3245	A
78	Aa	3246	G
78	Aa	3247	G
78	Aa	3259	U
78	Aa	3260	G
78	Aa	3263	G
78	Aa	3270	U
78	Aa	3272	C
78	Aa	3273	A
78	Aa	3276	G
78	Aa	3277	U
78	Aa	3279	A
78	Aa	3281	U
78	Aa	3286	G
78	Aa	3289	G
78	Aa	3290	G
78	Aa	3294	A
78	Aa	3304	U
78	Aa	3307	A
78	Aa	3309	G
78	Aa	3313	U
78	Aa	3316	A
78	Aa	3317	U
78	Aa	3318	G
78	Aa	3319	U
78	Aa	3331	U

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Mol	Chain	Res	Type
78	Aa	3334	U
78	Aa	3335	A
78	Aa	3341	U
78	Aa	3342	A
78	Aa	3345	G
78	Aa	3348	G
78	Aa	3350	C
78	Aa	3351	U
78	Aa	3352	U
78	Aa	3353	G
78	Aa	3354	U
78	Aa	3355	U
78	Aa	3356	G
78	Aa	3357	U
78	Aa	3358	U
78	Aa	3368	U
78	Aa	3369	G
78	Aa	3376	A
78	Aa	3378	C
78	Aa	3382	U
78	Aa	3383	G
78	Aa	3389	U
78	Aa	3390	G
35	Bb	7	G
35	Bb	10	C
35	Bb	11	A
35	Bb	22	A
35	Bb	38	U
35	Bb	51	A
35	Bb	54	U
35	Bb	55	A
35	Bb	64	A
35	Bb	65	G
35	Bb	73	C
35	Bb	76	A
35	Bb	99	G
35	Bb	102	A
35	Bb	110	G
35	Bb	111	U
35	Bb	112	G
36	Ca	13	A
36	Ca	16	G

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Mol	Chain	Res	Type
36	Ca	25	G
36	Ca	34	U
36	Ca	35	C
36	Ca	40	A
36	Ca	51	G
36	Ca	57	C
36	Ca	59	A
36	Ca	61	A
36	Ca	62	C
36	Ca	63	G
36	Ca	79	A
36	Ca	80	A
36	Ca	81	U
36	Ca	82	U
36	Ca	83	C
36	Ca	84	C
36	Ca	86	U
36	Ca	87	G
36	Ca	90	U
36	Ca	91	C
36	Ca	95	G
36	Ca	102	U
36	Ca	104	A
36	Ca	106	C
36	Ca	111	A
36	Ca	112	U
36	Ca	113	U
36	Ca	116	G
36	Ca	125	U
36	Ca	126	A
36	Ca	131	A
36	Ca	138	A
36	Ca	148	G
36	Ca	152	G
36	Ca	157	U
79	8	9	A
79	8	16	U
79	8	17	U
79	8	19	G
79	8	21	A
79	8	24	G
79	8	34	U

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Mol	Chain	Res	Type
79	8	41	G
79	8	42	A
79	8	47	U
79	8	48	C
79	8	49	A
79	8	58	A
79	8	59	G
79	8	61	C
79	8	73	G
79	8	75	C
79	8	76	A

There are no RNA pucker outliers to report.

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
30	4	1
39	Fa	1
16	Nb	1

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Mol	Chain	Number of breaks
45	Iy	1
3	Ba	1
47	Ly	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	4	13:ARG	C	14:TYR	N	1.73
1	Fa	19:ALA	C	20:LEU	N	1.20
1	Nb	134:VAL	C	135:LEU	N	1.19
1	Iy	120:GLY	C	121:LYS	N	1.17
1	Ba	33:LYS	C	34:ALA	N	1.11
1	Ly	54:LEU	C	55:ARG	N	1.07

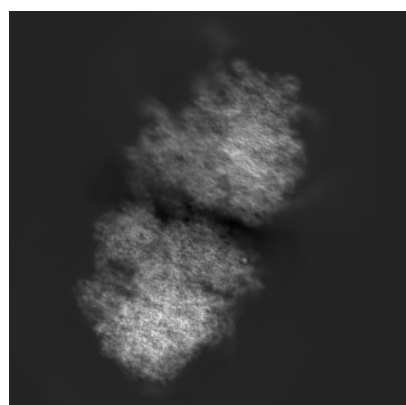
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-10398. These allow visual inspection of the internal detail of the map and identification of artifacts.

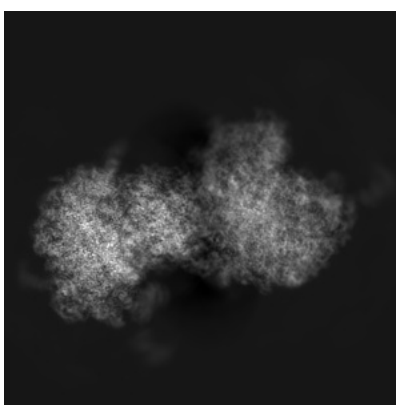
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

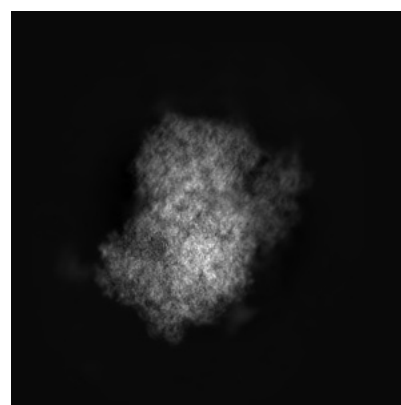
6.1.1 Primary map



X



Y

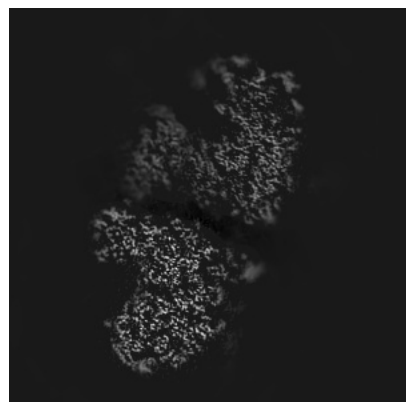


Z

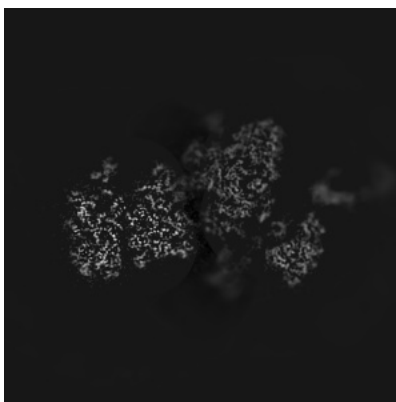
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

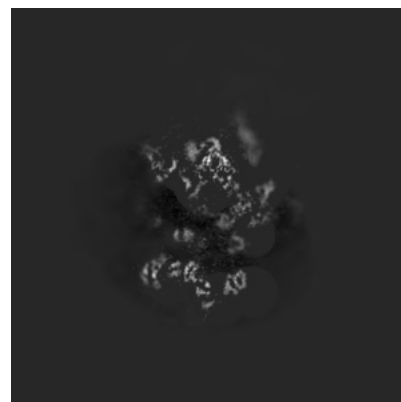
6.2.1 Primary map



X Index: 265



Y Index: 265

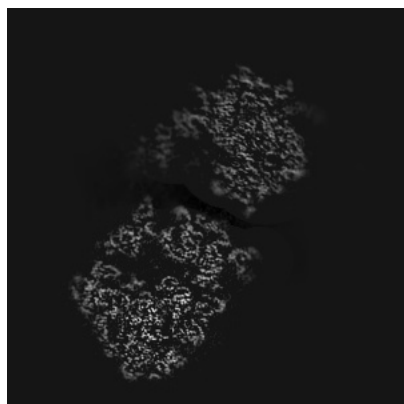


Z Index: 265

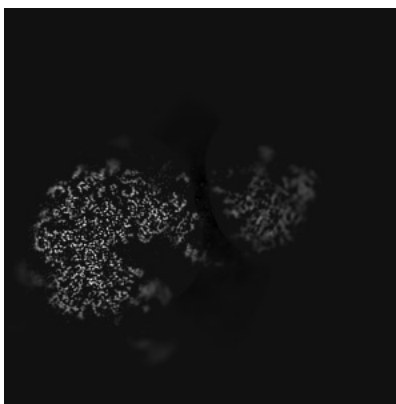
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

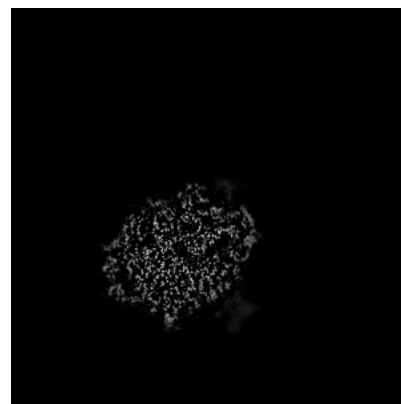
6.3.1 Primary map



X Index: 218



Y Index: 197

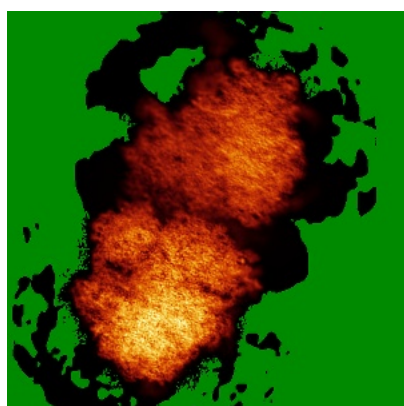


Z Index: 119

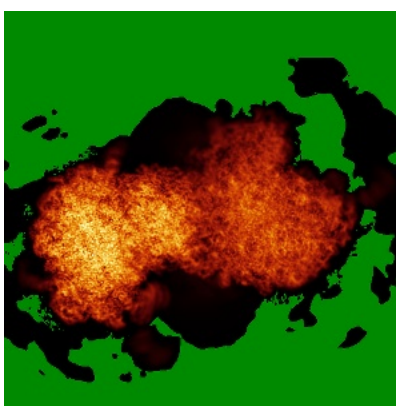
The images above show the largest variance slices of the map in three orthogonal directions.

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

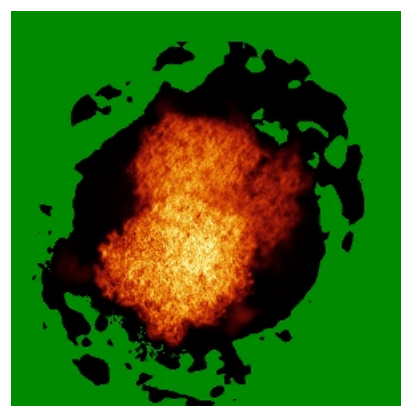
6.4.1 Primary map



X



Y

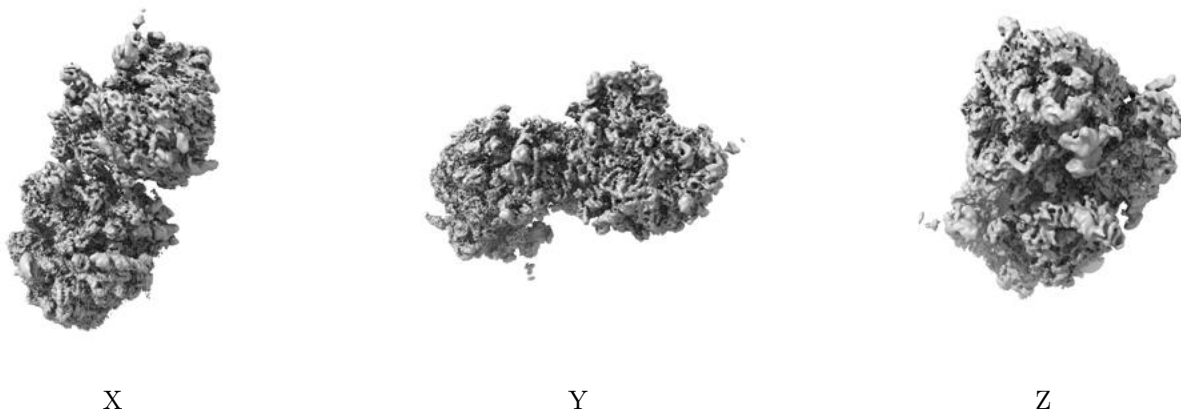


Z

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 0.02. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

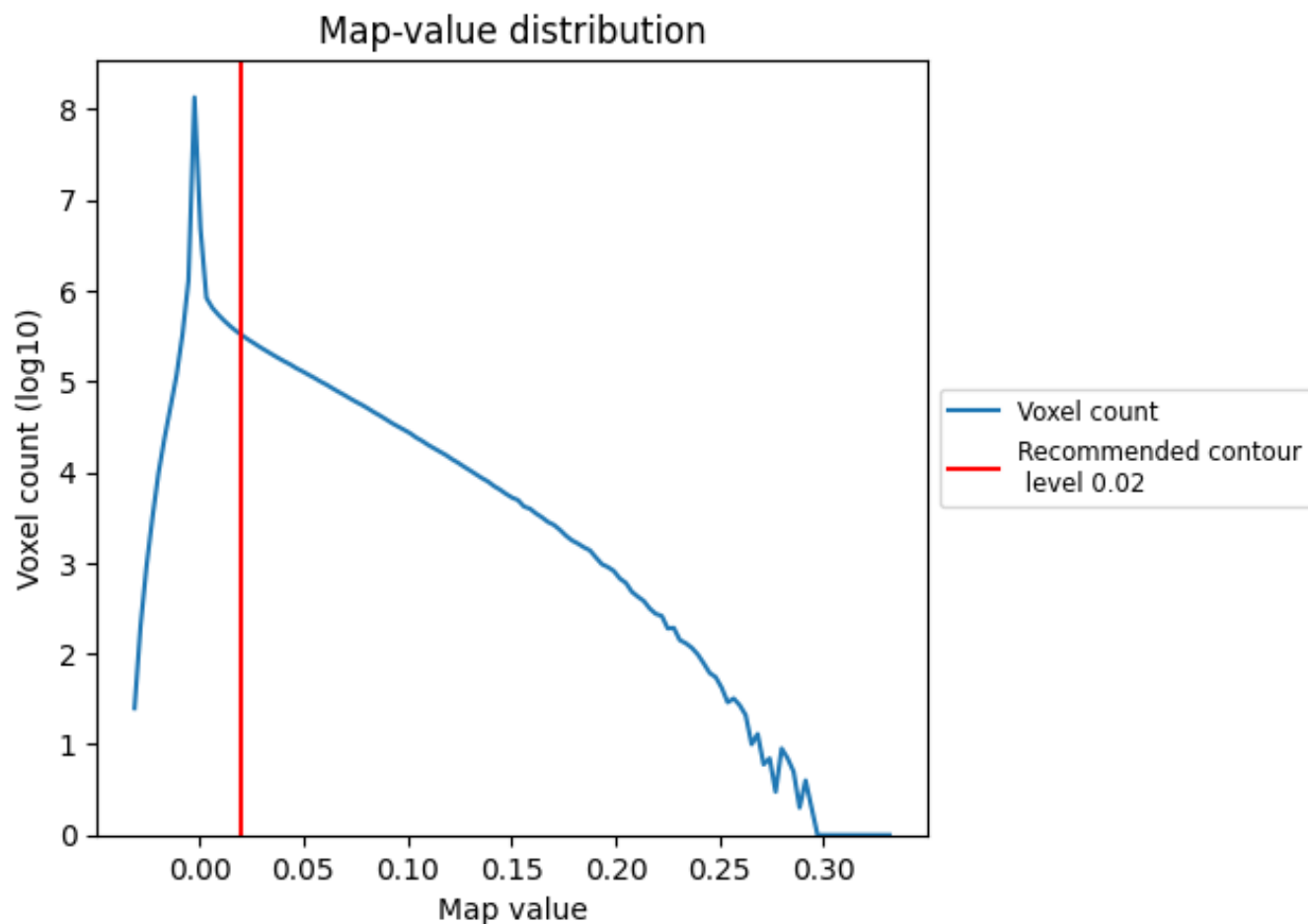
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

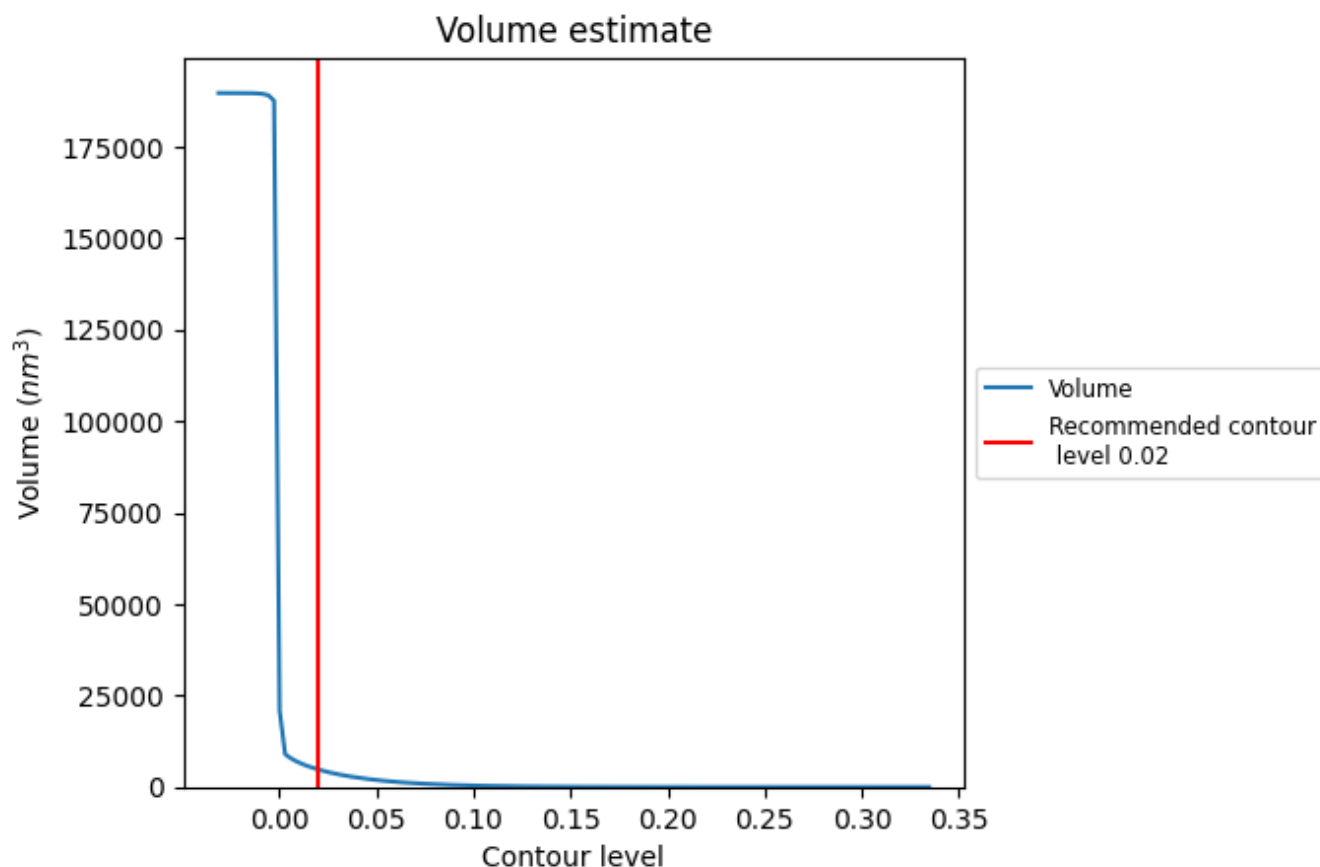
This section contains the results of statistical analysis of the map.

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.

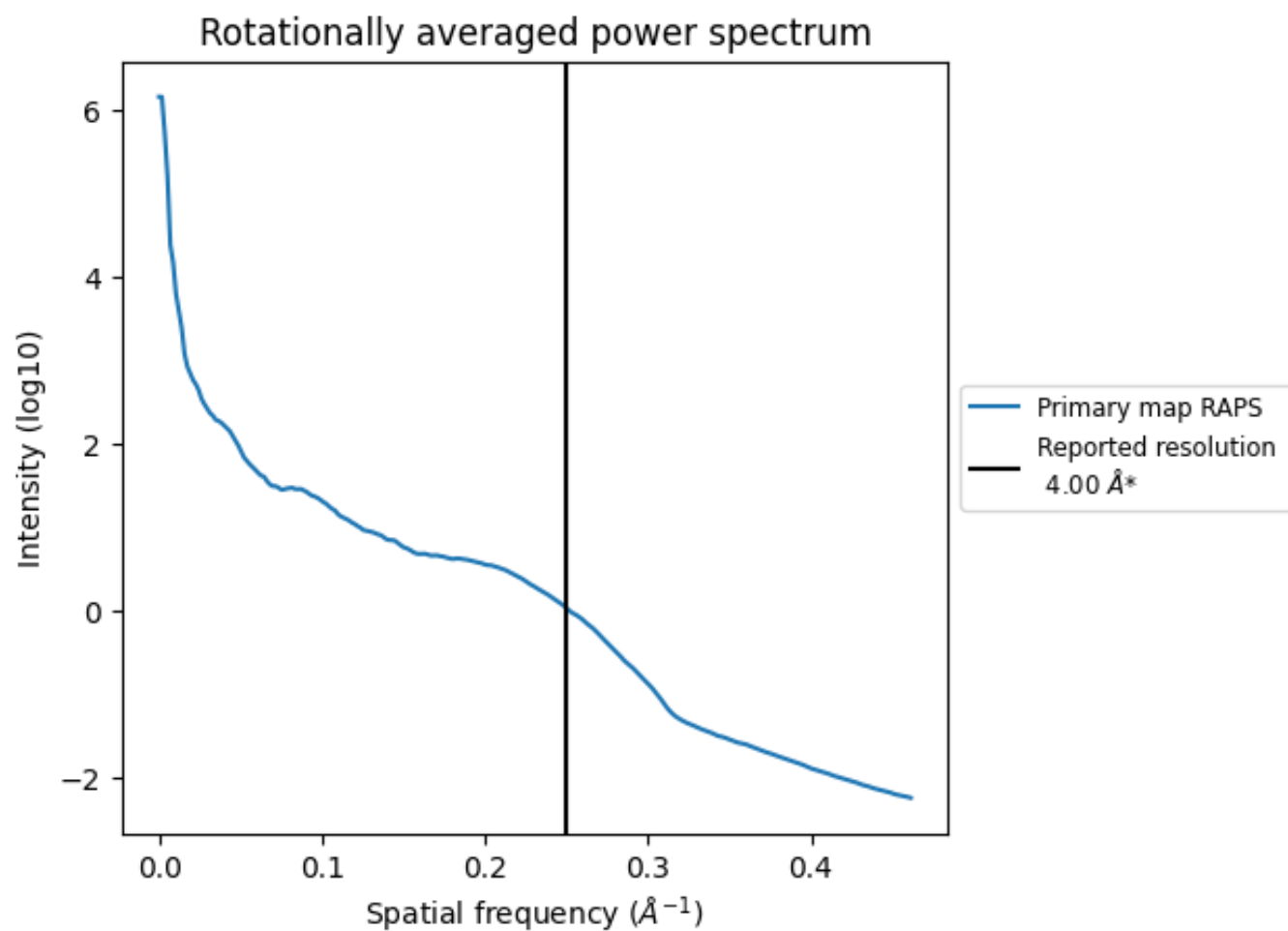
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 4789 nm^3 ; this corresponds to an approximate mass of 4326 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 0.250 Å⁻¹

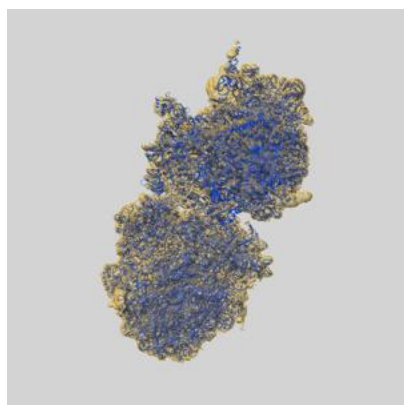
8 Fourier-Shell correlation

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

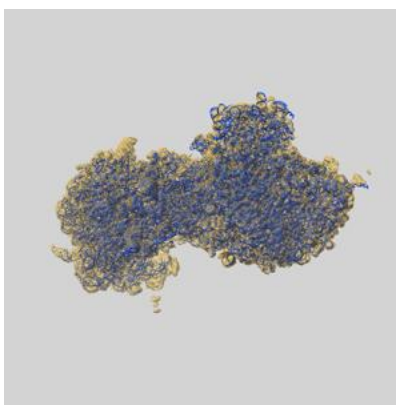
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-10398 and PDB model 6T83. Per-residue inclusion information can be found in [section 3](#) on [page 26](#).

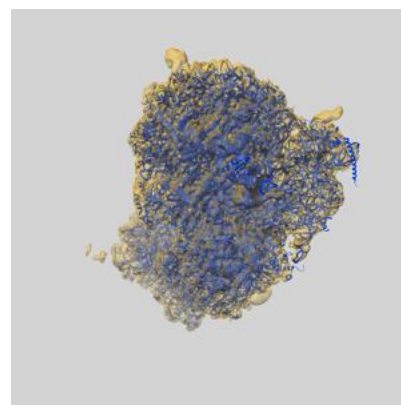
9.1 Map-model overlay [i](#)



X



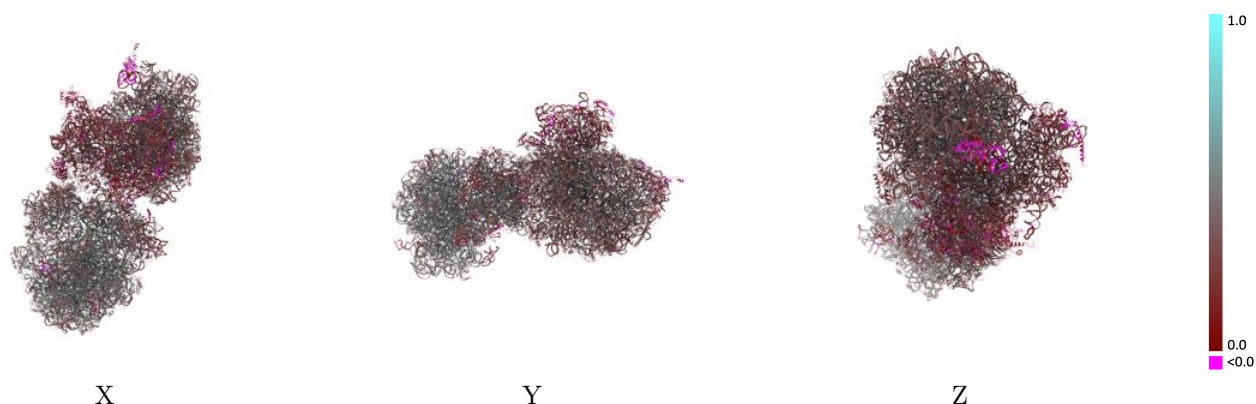
Y



Z

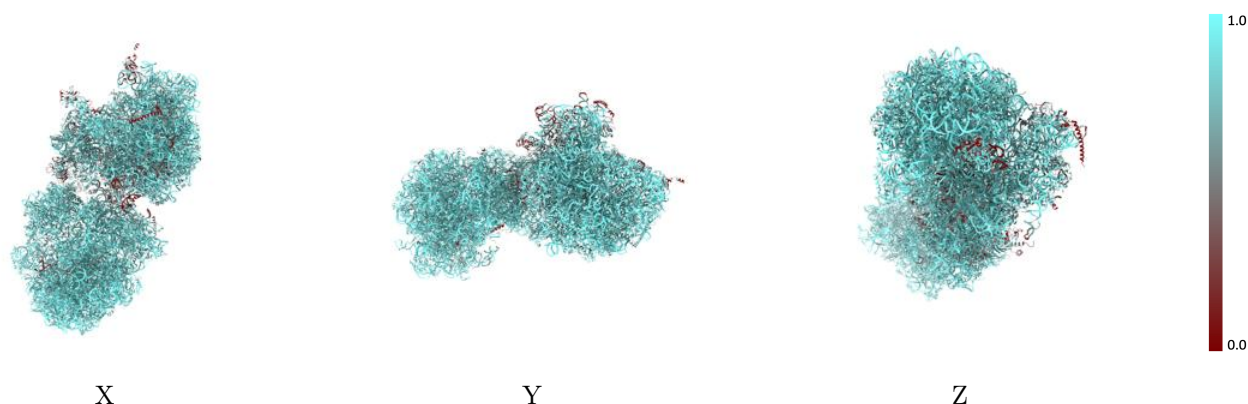
The images above show the 3D surface view of the map at the recommended contour level 0.02 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



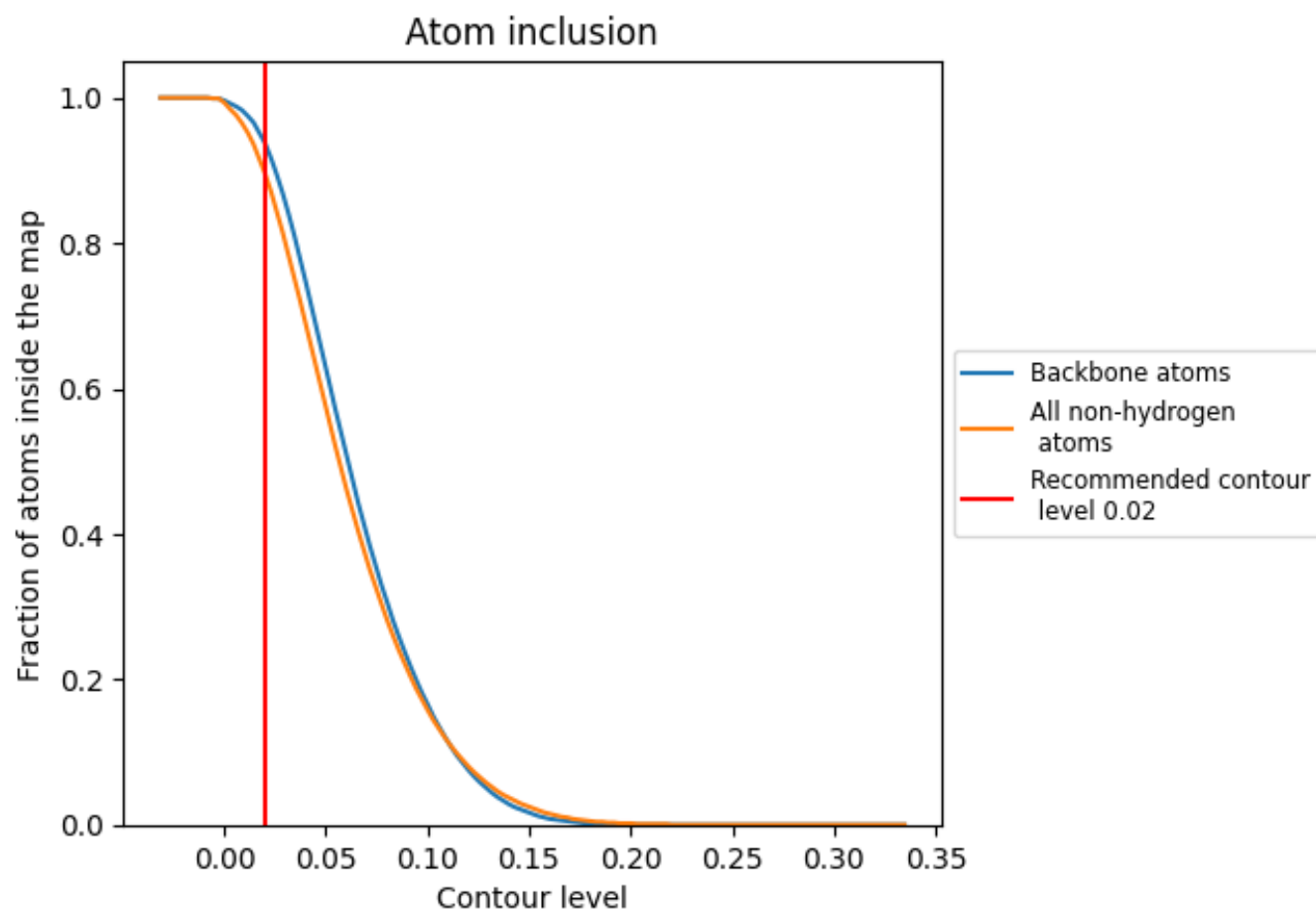
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.02).

9.4 Atom inclusion ⓘ



At the recommended contour level, 94% of all backbone atoms, 90% 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 (0.02) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8970	 0.3720
0	 0.6440	 0.1400
1	 0.7620	 0.3220
1b	 0.9780	 0.4500
2	 0.5360	 0.3050
2b	 0.9570	 0.4070
3	 0.7780	 0.2390
3b	 0.9850	 0.4590
4	 0.6760	 0.0740
4b	 0.9930	 0.4270
5	 0.7300	 0.2160
6	 0.5800	 0.1370
6b	 0.9620	 0.3880
7	 0.4990	 0.1450
8	 0.7390	 0.2520
A	 0.8730	 0.3870
Aa	 0.9550	 0.3780
Ab	 0.8700	 0.3760
Ay	 0.9120	 0.4880
B	 0.8330	 0.3560
Ba	 0.8810	 0.3970
Bb	 0.9910	 0.3470
By	 0.9280	 0.4590
C	 0.7770	 0.3330
Ca	 0.9700	 0.3930
Cb	 0.8730	 0.4230
Cy	 0.9390	 0.4560
D	 0.8220	 0.3600
Da	 0.8270	 0.4040
Db	 0.8290	 0.3710
Dy	 0.9380	 0.3800
E	 0.8390	 0.3740
Ea	 0.8430	 0.3740
Eb	 0.8690	 0.4070
Ey	 0.9300	 0.4030



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Chain	Atom inclusion	Q-score
F	 0.8090	 0.2970
Fa	 0.8790	 0.3720
Fb	 0.8760	 0.3690
Fy	 0.9290	 0.4400
G	 0.7460	 0.3770
Ga	 0.8680	 0.2740
Gb	 0.9010	 0.3480
Gy	 0.9110	 0.4020
H	 0.4150	 0.1670
Ha	 0.8200	 0.3140
Hb	 0.8770	 0.3410
Hy	 0.9040	 0.4150
I	 0.8280	 0.3620
Ia	 0.8410	 0.3530
Ib	 0.9130	 0.4190
Iy	 0.8960	 0.4040
J	 0.8750	 0.3330
Ja	 0.7960	 0.3100
Jb	 0.8590	 0.3780
Jy	 0.9020	 0.3690
K	 0.8110	 0.3160
Ka	 0.8370	 0.3500
Kb	 0.8290	 0.3270
L	 0.8480	 0.3680
La	 0.8410	 0.3130
Lb	 0.8660	 0.4400
Ly	 0.9440	 0.4460
M	 0.8470	 0.3440
Ma	 0.7500	 0.1980
Mb	 0.8160	 0.2290
My	 0.9300	 0.3990
N	 0.7770	 0.3260
Na	 0.8490	 0.3320
Nb	 0.9050	 0.4220
Ny	 0.9430	 0.4980
O	 0.8160	 0.3540
Oa	 0.8940	 0.3290
Ob	 0.8940	 0.4230
Oy	 0.9330	 0.4690
P	 0.8270	 0.3900
Pa	 0.8700	 0.3950
Pb	 0.8640	 0.3410

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Chain	Atom inclusion	Q-score
Py	 0.9430	 0.4660
Q	 0.8600	 0.4110
Qa	 0.8620	 0.3830
Qb	 0.8850	 0.3960
Qy	 0.9410	 0.4590
R	 0.7810	 0.3810
Rb	 0.8870	 0.3670
Ry	 0.8950	 0.4170
S	 0.8410	 0.3330
Sb	 0.8720	 0.3570
Sy	 0.9090	 0.4440
T	 0.7960	 0.3170
Tb	 0.9070	 0.3590
Ty	 0.9210	 0.4590
U	 0.9210	 0.4330
Ub	 0.8650	 0.3570
Uy	 0.9190	 0.3700
V	 0.8170	 0.3060
Vb	 0.8700	 0.4080
Vy	 0.8950	 0.4680
W	 0.8600	 0.4080
Wb	 0.9100	 0.4500
Wy	 0.7540	 0.3600
X	 0.7690	 0.3400
Xb	 0.8850	 0.4440
Xy	 0.9220	 0.4370
Y	 0.5800	 0.2890
Yb	 0.8720	 0.3580
Yy	 0.9400	 0.4290
Z	 0.8140	 0.3380
Zb	 0.8150	 0.3320
Zy	 0.9090	 0.4060
a	 0.9040	 0.2810
aa	 0.8070	 0.3670
ab	 0.9160	 0.4620
ay	 0.9330	 0.4730
b	 0.6870	 0.2350
ba	 0.3520	 0.0150
bb	 0.9130	 0.4110
by	 0.9160	 0.4480
c	 0.4900	 0.2180
cb	 0.8690	 0.3940

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Chain	Atom inclusion	Q-score
cy	 0.9060	 0.4270
d	 0.7390	 0.2710
db	 0.9150	 0.4360
dy	 0.9150	 0.4550
e	 0.6540	 0.2260
eb	 0.8470	 0.3930
ey	 0.9330	 0.4810
f	 0.7050	 0.2360
fb	 0.8620	 0.2360
fy	 0.9390	 0.4950
g	 0.7280	 0.1950
gb	 0.8590	 0.3220
gy	 0.8930	 0.4490
h	 0.6560	 0.2140
hb	 0.9330	 0.4220
i	 0.5170	 0.2290
ib	 0.9190	 0.4090
j	 0.6570	 0.2100
jb	 0.9670	 0.5060
k	 0.7070	 0.2310
kb	 0.9030	 0.3930
l	 0.6370	 0.1880
lb	 0.9250	 0.4850
m	 0.5540	 0.2500
mb	 0.9300	 0.4540
n	 0.4820	 0.1210
nb	 0.8320	 0.4600
o	 0.7130	 0.2980
ob	 0.9020	 0.4400
p	 0.6560	 0.2770
pb	 0.9060	 0.4680
q	 0.4930	 0.1440
r	 0.7550	 0.2030
s	 0.6110	 0.2190
t	 0.6190	 0.1730
u	 0.7560	 0.1740
v	 0.7110	 0.2210
w	 0.7890	 0.2640
x	 0.7630	 0.2980
y	 0.7670	 0.3010
z	 0.7910	 0.1960