Full wwPDB X-ray Structure Validation Report (i)

Nov 29, 2021 – 04:53 pm GMT

PDB ID	:	7OSA
Title	:	Pre-translocation complex of 80 S.cerevisiae ribosome with eEF2 and ligands
Authors	:	Djumagulov, M.; Jenner, L.; Rozov, A.; Demeshkina, N.; Yusupov, M.; Yusupova, G.
Deposited on	:	2021-06-08
Resolution	:	3.00 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

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

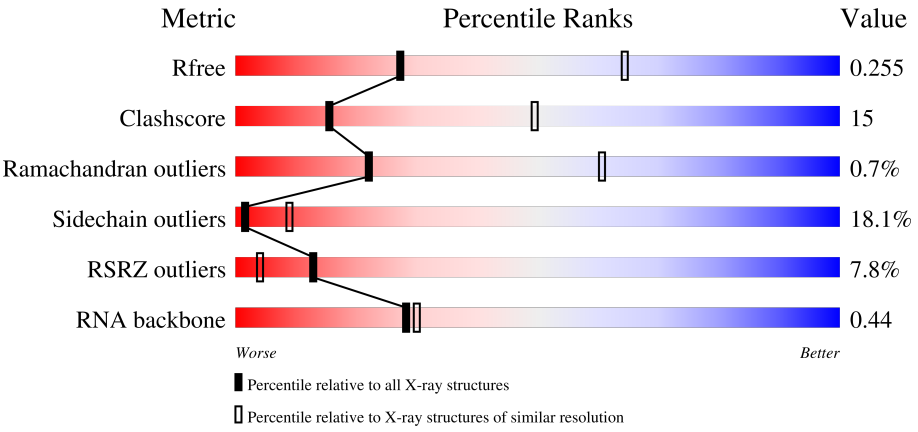
MolProbity	:	4.02b-467
Mogul	:	1.8.4 (270009), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.23.2
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0267
CCP4	:	7.1.010 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.23.2

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.00 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)
RNA backbone	3102	1173 (3.30-2.70)

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

Mol	Chain	Length	Quality of chain
1	25S	3396	43% 38% 11% • 6%
2	AB	121	60% 31% 8%
3	58S	753	11% 8% • 79%
4	uL10	312	3% 48% 16% 36%

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Mol	Chain	Length	Quality of chain
5	uL2	254	86% 11%
6	uL3	387	88% 11%
7	uL4	362	6% 83% 16%
8	uL18	297	18% 82% 18%
9	eL6	176	77% 11% 11%
10	uL30	244	4% 82% 9% 9%
11	eL8	256	18% 74% 16% 11%
12	uL6	191	3% 81% 19%
13	uL16	221	84% 10% 5%
14	uL5	174	8% 78% 19%
15	eL13	199	14% 82% 14%
16	eL14	138	90% 9%
17	eL15	204	9% 86% 13%
18	uL13	199	85% 12%
19	uL22	184	12% 70% 14% 16%
20	eL18	186	18% 89% 11%
21	eL19	189	6% 78% 14% 8%
22	eL20	172	8% 80% 19%
23	eL21	160	14% 88% 11%
24	eL22	121	12% 67% 14% 19%
25	uL14	137	85% 12%
26	eL24	155	34% 7% 59%
27	uL23	142	13% 76% 8% 15%
28	uL24	127	20% 83% 17%
29	eL27	135	85% 15%

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Mol	Chain	Length	Quality of chain
30	uL15	149	28% 85% 15%
31	eL29	59	15% 85% 14%
32	eL30	105	11% 79% 13% 8%
33	eL31	113	9% 85% 12%
34	eL32	130	13% 87% 11%
35	eL33	107	5% 86% 11%
36	eL34	121	2% 80% 12% 7%
37	uL29	120	29% 80% 19%
38	eL36	100	15% 75% 24%
39	eL37	88	16% 86% 10%
40	eL38	78	79% 19%
41	eL39	51	47% 82% 12%
42	eL40	128	2% 37% 59%
43	eL41	25	32% 72% 28%
44	eL42	106	5% 79% 20%
45	eL43	92	% 87% 12%
46	18S	1798	2% 44% 36% 14% 5%
47	uS2	252	5% 70% 10% 20%
48	eS1	255	2% 70% 14% 16%
49	uS5	254	22% 70% 15% 15%
50	uS3	240	15% 72% 17% 11%
51	eS4	261	16% 85% 14%
52	uS7	225	12% 72% 19% 8%
53	eS6	236	9% 75% 20% 6%
54	eS7	190	33% 78% 18%

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Mol	Chain	Length	Quality of chain
55	eS8	200	14% 78% 16% 6%
56	uS4	197	3% 80% 13% 6%
57	eS10	105	11% 73% 17% 9%
58	uS17	156	17% 76% 14% 10%
59	eS12	143	20% 68% 18% 13%
60	uS15	151	7% 78% 21%
61	uS11	137	3% 76% 16% 7%
62	uS19	142	8% 65% 15% 18%
63	uS9	143	25% 78% 16% 6%
64	eS17	136	4% 69% 20% 11%
65	uS13	146	14% 77% 22%
66	eS19	144	26% 83% 17%
67	uS10	121	23% 55% 10% 35%
68	eS21	87	2% 79% 21%
69	uS8	130	10% 85% 14%
70	uS12	145	6% 86% 12%
71	eS24	135	4% 81% 16%
72	eS25	108	5% 52% 12% 35%
73	eS26	119	12% 67% 14% 18%
74	eS27	82	2% 76% 23%
75	eS28	67	13% 66% 25% 9%
76	uS14	56	23% 80% 11% 9%
77	eS30	63	24% 76% 13% 11%
78	RACK	319	24% 82% 17%
79	eS31	152	7% 34% 7% 59%

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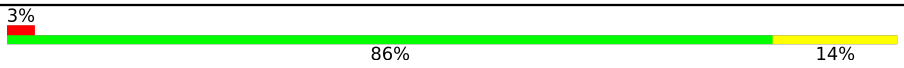
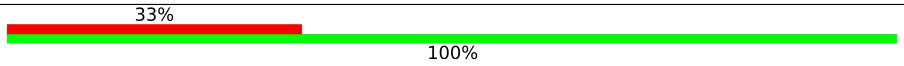
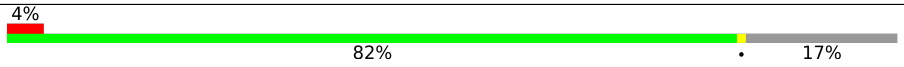
Mol	Chain	Length	Quality of chain
80	eEF2	842	
81	PSIT	77	
82	mRNA	3	
83	uL11	165	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
84	MG	18S	1811	-	-	-	X
84	MG	18S	1877	-	-	-	X
84	MG	18S	1880	-	-	-	X
84	MG	18S	1902	-	-	-	X
84	MG	18S	1907	-	-	-	X
84	MG	25S	3415	-	-	-	X
84	MG	25S	3444	-	-	-	X
84	MG	25S	3458	-	-	-	X
84	MG	25S	3471	-	-	-	X
84	MG	25S	3479	-	-	-	X
84	MG	25S	3484	-	-	-	X
84	MG	25S	3510	-	-	-	X
84	MG	25S	3515	-	-	-	X
84	MG	25S	3516	-	-	-	X
84	MG	25S	3522	-	-	-	X
84	MG	25S	3525	-	-	-	X
84	MG	25S	3530	-	-	-	X
84	MG	25S	3534	-	-	-	X
84	MG	25S	3543	-	-	-	X
84	MG	25S	3552	-	-	-	X
84	MG	25S	3554	-	-	-	X
84	MG	25S	3558	-	-	-	X
84	MG	25S	3561	-	-	-	X
84	MG	25S	3564	-	-	-	X
84	MG	25S	3575	-	-	-	X
84	MG	25S	3580	-	-	-	X
84	MG	25S	3601	-	-	-	X
84	MG	25S	3606	-	-	-	X
84	MG	25S	3610	-	-	-	X
84	MG	25S	3617	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
84	MG	25S	3627	-	-	-	X
84	MG	25S	3634	-	-	-	X
84	MG	25S	3640	-	-	-	X
84	MG	25S	3641	-	-	-	X
84	MG	25S	3645	-	-	-	X
84	MG	25S	3649	-	-	-	X
84	MG	25S	3652	-	-	-	X
84	MG	25S	3654	-	-	-	X
84	MG	25S	3660	-	-	-	X
84	MG	25S	3690	-	-	-	X
84	MG	25S	3691	-	-	-	X
84	MG	25S	3692	-	-	-	X
84	MG	25S	3693	-	-	-	X
84	MG	25S	3694	-	-	-	X
84	MG	25S	3700	-	-	-	X
84	MG	25S	3705	-	-	-	X
84	MG	25S	3732	-	-	-	X
84	MG	AB	209	-	-	-	X
84	MG	AB	210	-	-	-	X
84	MG	eEF2	903	-	-	-	X
84	MG	eL19	201	-	-	-	X
84	MG	eL39	101	-	-	-	X
84	MG	eL42	201	-	-	-	X
84	MG	uL13	201	-	-	-	X
84	MG	uL13	202	-	-	-	X
84	MG	uS12	201	-	-	-	X

2 Entry composition

There are 86 unique types of molecules in this entry. The entry contains 208056 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 25S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	25S	3180	68026	30386	12274	22186	3180	0	0	0

- Molecule 2 is a RNA chain called 5S.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
2	AB	121	2579	1152	461	845	121	0	0	0

- Molecule 3 is a RNA chain called 5.8S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
3	58S	158	3353	1500	586	1109	158	0	0	0

- Molecule 4 is a protein called 60S acidic ribosomal protein P0.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	uL10	199	1543	988	268	283	4	0	0	0

- Molecule 5 is a protein called 60S ribosomal protein L2-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
5	uL2	247	1878	1170	381	326	1	0	0	0

- Molecule 6 is a protein called 60S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
6	uL3	386	3075	1950	584	533	8	0	0	0

- Molecule 7 is a protein called BJ4_G0008850.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	uL4	361	Total	C	N	O	S	0	0	0
			2748	1729	522	494	3			

- Molecule 8 is a protein called 60S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	uL18	296	Total	C	N	O	S	0	0	0
			2375	1501	414	458	2			

- Molecule 9 is a protein called 60S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	eL6	156	Total	C	N	O	S	0	0	0
			1239	800	222	216	1			

- Molecule 10 is a protein called 60S ribosomal protein L7-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	uL30	222	Total	C	N	O	S	0	0	0
			1784	1151	324	308	1			

- Molecule 11 is a protein called 60S ribosomal protein L8-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	eL8	229	Total	C	N	O	S	0	0	0
			1779	1138	319	319	3			

- Molecule 12 is a protein called 60S ribosomal protein L9-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	uL6	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			

- Molecule 13 is a protein called 60S ribosomal protein L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	uL16	210	Total	C	N	O	S	0	0	0
			1710	1088	322	294	6			

- Molecule 14 is a protein called BJ4_G0027750.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	uL5	169	Total	C	N	O	S	0	0	0
			1353	847	253	249	4			

- Molecule 15 is a protein called 60S ribosomal protein L13.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
15	eL13	193	Total	C	N	O	0	0	0
			1543	962	315	266			

- Molecule 16 is a protein called 60S ribosomal protein L14-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	eL14	136	Total	C	N	O	S	0	0	0
			1053	675	199	177	2			

- Molecule 17 is a protein called 60S ribosomal protein L15-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	eL15	203	Total	C	N	O	S	0	0	0
			1720	1077	361	281	1			

- Molecule 18 is a protein called 60S ribosomal protein L16-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	uL13	197	Total	C	N	O	S	0	0	0
			1555	1003	289	262	1			

- Molecule 19 is a protein called BJ4_G0005750.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
19	uL22	154	Total	C	N	O	0	0	0
			1222	761	237	224			

- Molecule 20 is a protein called BJ4_G0033900.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	eL18	185	Total	C	N	O	S	0	0	0
			1441	908	290	241	2			

- Molecule 21 is a protein called 60S ribosomal protein L19-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	eL19	174	Total	C	N	O	0	0	0
			1409	867	304	238			

- Molecule 22 is a protein called 60S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	eL20	172	Total	C	N	O	S	0	0	0
			1445	930	267	244	4			

- Molecule 23 is a protein called BJ4_G0003770.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	eL21	159	Total	C	N	O	S	0	0	0
			1276	805	246	221	4			

- Molecule 24 is a protein called 60S ribosomal protein L22-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
24	eL22	98	Total	C	N	O	0	0	0
			778	505	127	146			

- Molecule 25 is a protein called 60S ribosomal protein L23-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	uL14	132	Total	C	N	O	S	0	0	0
			981	617	184	173	7			

- Molecule 26 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	eL24	63	Total	C	N	O	S	0	0	0
			521	336	102	82	1			

- Molecule 27 is a protein called 60S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	uL23	121	Total	C	N	O	S	0	0	0
			964	620	169	173	2			

- Molecule 28 is a protein called 60S ribosomal protein L26-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
28	uL24	126	Total 993	C 625	N 192	O 176	0	0	0

- Molecule 29 is a protein called 60S ribosomal protein L27.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
29	eL27	135	Total 1092	C 710	N 202	O 180	0	0	0

- Molecule 30 is a protein called 60S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	uL15	148	Total 1173	C 749	N 231	O 190	S 3	0	0	0

- Molecule 31 is a protein called 60S ribosomal protein L29.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
31	eL29	58	Total 462	C 289	N 100	O 73	0	0	0

- Molecule 32 is a protein called BJ4_G0020000.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	eL30	97	Total 742	C 479	N 124	O 138	S 1	0	0	0

- Molecule 33 is a protein called BJ4_G0008090.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	eL31	109	Total 883	C 559	N 167	O 156	S 1	0	0	0

- Molecule 34 is a protein called HN1_G0013350.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	eL32	127	Total 1020	C 647	N 205	O 167	S 1	0	0	0

- Molecule 35 is a protein called BJ4_G0025510.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	eL33	106	Total	C	N	O	S	0	0	0
			850	540	165	144	1			

- Molecule 36 is a protein called 60S ribosomal protein L34-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	eL34	112	Total	C	N	O	S	0	0	0
			880	545	179	152	4			

- Molecule 37 is a protein called BJ4_G0044250.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	uL29	119	Total	C	N	O	S	0	0	0
			969	615	186	167	1			

- Molecule 38 is a protein called 60S ribosomal protein L36-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	eL36	99	Total	C	N	O	S	0	0	0
			771	481	156	132	2			

- Molecule 39 is a protein called Ribosomal protein L37.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	eL37	85	Total	C	N	O	S	0	0	0
			670	408	146	111	5			

- Molecule 40 is a protein called BJ4_G0032190.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
40	eL38	77	Total	C	N	O	0	0	0
			612	391	115	106			

- Molecule 41 is a protein called 60S ribosomal protein L39.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	eL39	50	Total	C	N	O	S	0	0	0
			436	272	97	65	2			

- Molecule 42 is a protein called Ubiquitin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	eL40	52	Total	C	N	O	S	0	0	0
			417	259	86	67	5			

- Molecule 43 is a protein called eL41.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	eL41	25	Total	C	N	O	S	0	0	0
			233	142	63	27	1			

- Molecule 44 is a protein called BJ4_G0001880.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	eL42	105	Total	C	N	O	S	0	0	0
			847	534	170	138	5			

- Molecule 45 is a protein called 60S ribosomal protein L43-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	eL43	91	Total	C	N	O	S	0	0	0
			694	429	138	121	6			

- Molecule 46 is a RNA chain called 18S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	18S	1717	Total	C	N	O	P	0	0	1
			36588	16356	6504	12011	1717			

- Molecule 47 is a protein called 40S ribosomal protein S0.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	uS2	202	Total	C	N	O	S	0	0	0
			1555	1000	274	279	2			

- Molecule 48 is a protein called 40S ribosomal protein S1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	eS1	214	Total	C	N	O	S	0	0	0
			1703	1081	307	311	4			

- Molecule 49 is a protein called 40S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	uS5	217	Total	C	N	O	S	0	0	0
			1635	1047	289	297	2			

- Molecule 50 is a protein called BJ4_G0045400.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	uS3	214	Total	C	N	O	S	0	0	0
			1664	1054	303	301	6			

- Molecule 51 is a protein called 40S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	eS4	258	Total	C	N	O	S	0	0	0
			2056	1308	387	358	3			

- Molecule 52 is a protein called Rps5p.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	uS7	206	Total	C	N	O	S	0	0	0
			1609	1007	300	299	3			

- Molecule 53 is a protein called 40S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	eS6	223	Total	C	N	O	S	0	0	0
			1790	1123	346	318	3			

- Molecule 54 is a protein called 40S ribosomal protein S7.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
54	eS7	184	Total	C	N	O	0	0	0
			1481	951	265	265			

- Molecule 55 is a protein called 40S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	eS8	188	Total	C	N	O	S	0	0	0
			1489	925	298	264	2			

- Molecule 56 is a protein called BJ4_G0026100.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	uS4	185	Total	C	N	O	S	0	0	0
			1494	943	289	261	1			

- Molecule 57 is a protein called 40S ribosomal protein S10-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	eS10	96	Total	C	N	O	S	0	0	0
			772	499	126	145	2			

- Molecule 58 is a protein called 40S ribosomal protein S11-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	uS17	141	Total	C	N	O	S	0	0	0
			1143	733	216	191	3			

- Molecule 59 is a protein called 40S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
59	eS12	124	Total	C	N	O	S	0	0	0
			890	560	156	172	2			

- Molecule 60 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
60	uS15	150	Total	C	N	O	S	0	0	0
			1192	759	224	207	2			

- Molecule 61 is a protein called 40S ribosomal protein S14-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
61	uS11	127	Total	C	N	O	S	0	0	0
			891	545	182	163	1			

- Molecule 62 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
62	uS19	117	Total	C	N	O	S	0	0	0
			924	587	171	159	7			

- Molecule 63 is a protein called BJ4_G0008010.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
63	uS9	135	Total	C	N	O	0	0	0
			1062	681	194	187			

- Molecule 64 is a protein called BJ4_G0020710.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
64	eS17	121	Total	C	N	O	S	0	0	0
			961	599	182	178	2			

- Molecule 65 is a protein called 40S ribosomal protein S18-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
65	uS13	145	Total	C	N	O	S	0	0	0
			1192	743	237	210	2			

- Molecule 66 is a protein called 40S ribosomal protein S19-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
66	eS19	143	Total	C	N	O	S	0	0	0
			1112	694	208	208	2			

- Molecule 67 is a protein called 40S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
67	uS10	79	Total	C	N	O	S	0	0	0
			644	405	120	118	1			

- Molecule 68 is a protein called 40S ribosomal protein S21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
68	eS21	87	Total	C	N	O	S	0	0	0
			684	420	125	137	2			

- Molecule 69 is a protein called 40S ribosomal protein S22-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
69	uS8	129	Total	C	N	O	S	0	0	0
			1021	650	188	180	3			

- Molecule 70 is a protein called 40S ribosomal protein S23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
70	uS12	144	Total	C	N	O	S	0	0	0
			1121	708	220	191	2			

- Molecule 71 is a protein called 40S ribosomal protein S24.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
71	eS24	134	Total	C	N	O	0	0	0
			1073	676	208	189			

- Molecule 72 is a protein called 40S ribosomal protein S25.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
72	eS25	70	Total	C	N	O	0	0	0
			563	360	104	99			

- Molecule 73 is a protein called 40S ribosomal protein S26.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
73	eS26	97	Total	C	N	O	S	0	0	0
			769	475	160	129	5			

- Molecule 74 is a protein called 40S ribosomal protein S27-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
74	eS27	81	Total	C	N	O	S	0	0	0
			610	382	110	113	5			

- Molecule 75 is a protein called eS28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
75	eS28	61	Total	C	N	O	S	0	0	0
			478	294	94	89	1			

- Molecule 76 is a protein called HLJ1_G0030400.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
76	uS14	51	Total	C	N	O	S	0	0	0
			420	262	84	70	4			

- Molecule 77 is a protein called 40S ribosomal protein S30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
77	eS30	56	Total	C	N	O	S	0	0	0
			448	282	93	72	1			

- Molecule 78 is a protein called BJ4_G0022010.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
78	RACK	318	Total	C	N	O	S	0	0	0
			2436	1541	418	469	8			

- Molecule 79 is a protein called Ubiquitin-40S ribosomal protein S31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
79	eS31	63	Total	C	N	O	S	0	0	0
			499	317	95	83	4			

- Molecule 80 is a protein called Elongation factor 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
80	eEF2	842	Total	C	N	O	S	0	0	0
			6559	4166	1124	1238	31			

- Molecule 81 is a RNA chain called Psite tRNA-Phe.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
81	PSIT	77	Total	C	N	O	P	0	0	0
			1644	732	298	537	77			

- Molecule 82 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
82	mRNA	3	Total	C	N	O	P	0	0	0
			65	29	12	21	3			

- Molecule 83 is a protein called 60S ribosomal protein L12-B.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
83	uL11	137	Total	C	N	O	0	0	0
			672	398	137	137			

- Molecule 84 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
84	25S	332	Total Mg 335 335	0	3
84	AB	10	Total Mg 10 10	0	0
84	58S	9	Total Mg 9 9	0	0
84	uL2	2	Total Mg 2 2	0	0
84	uL3	1	Total Mg 1 1	0	0
84	uL16	2	Total Mg 2 2	0	0
84	uL13	2	Total Mg 2 2	0	0
84	uL22	1	Total Mg 1 1	0	0
84	eL19	1	Total Mg 1 1	0	0
84	eL22	1	Total Mg 1 1	0	0
84	uL14	1	Total Mg 1 1	0	0
84	eL30	2	Total Mg 2 2	0	0
84	eL32	2	Total Mg 2 2	0	0
84	eL37	1	Total Mg 1 1	0	0
84	eL39	1	Total Mg 1 1	0	0
84	eL41	1	Total Mg 1 1	0	0
84	eL42	1	Total Mg 1 1	0	0
84	18S	107	Total Mg 109 109	0	2
84	uS5	1	Total Mg 1 1	0	0
84	eS6	1	Total Mg 1 1	0	0
84	uS4	1	Total Mg 1 1	0	0
84	uS12	3	Total Mg 3 3	0	0

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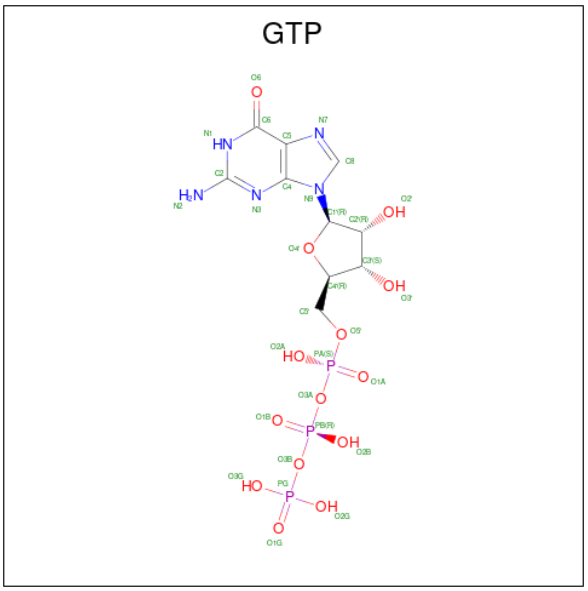
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
84	eS26	1	Total Mg 1 1	0	0
84	eEF2	4	Total Mg 4 4	0	0
84	PSIT	2	Total Mg 2 2	0	0

- Molecule 85 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
85	eL34	1	Total Zn 1 1	0	0
85	eL37	1	Total Zn 1 1	0	0
85	eL40	1	Total Zn 1 1	0	0
85	eL42	1	Total Zn 1 1	0	0
85	eL43	1	Total Zn 1 1	0	0
85	eS26	1	Total Zn 1 1	0	0
85	uS14	1	Total Zn 1 1	0	0
85	eS31	1	Total Zn 1 1	0	0

- Molecule 86 is GUANOSINE-5'-TRIPHOSPHATE (three-letter code: GTP) (formula: $C_{10}H_{16}N_5O_{14}P_3$).



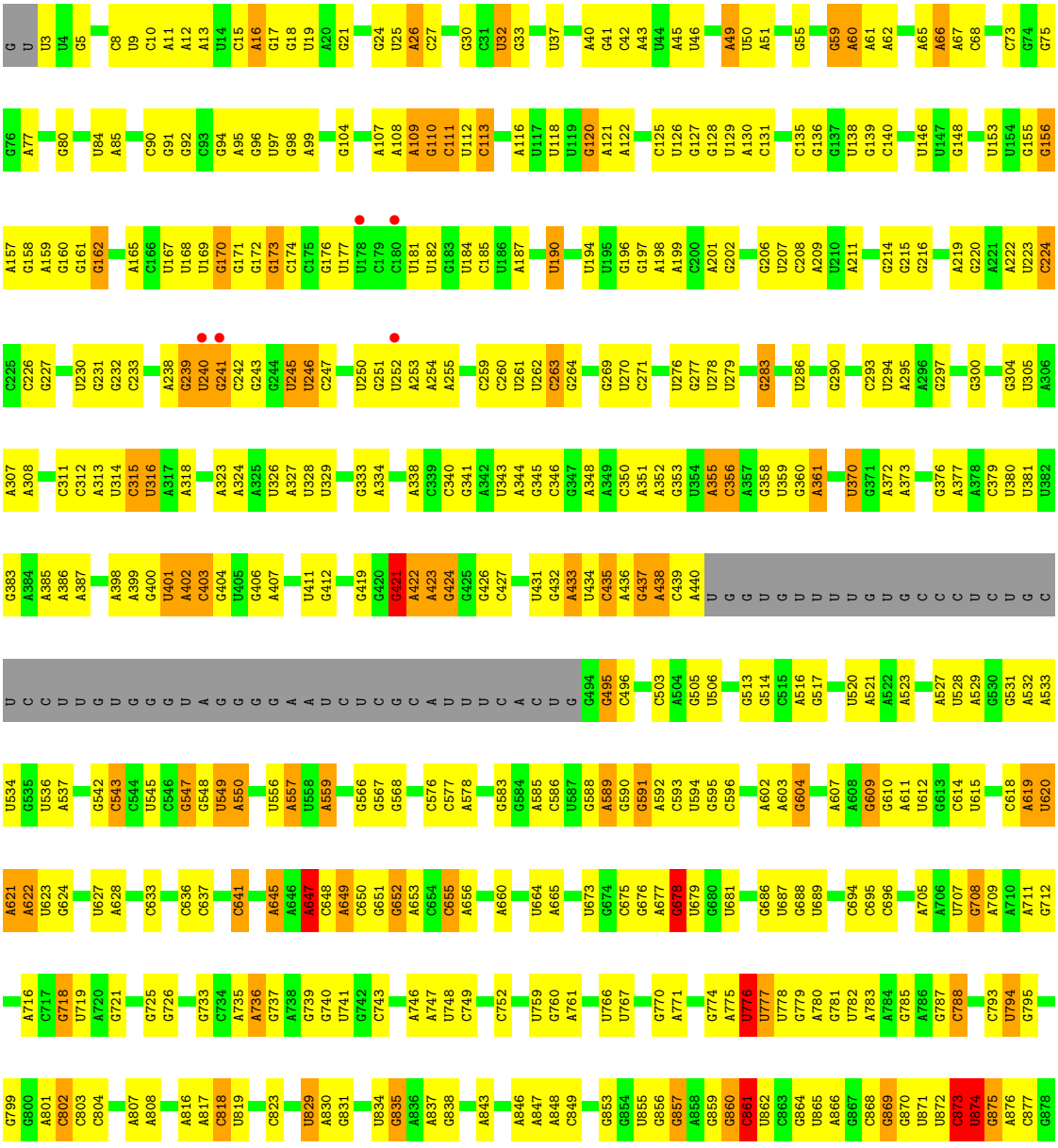
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
86	eEF2	1	32	10	5	14	3	0	0

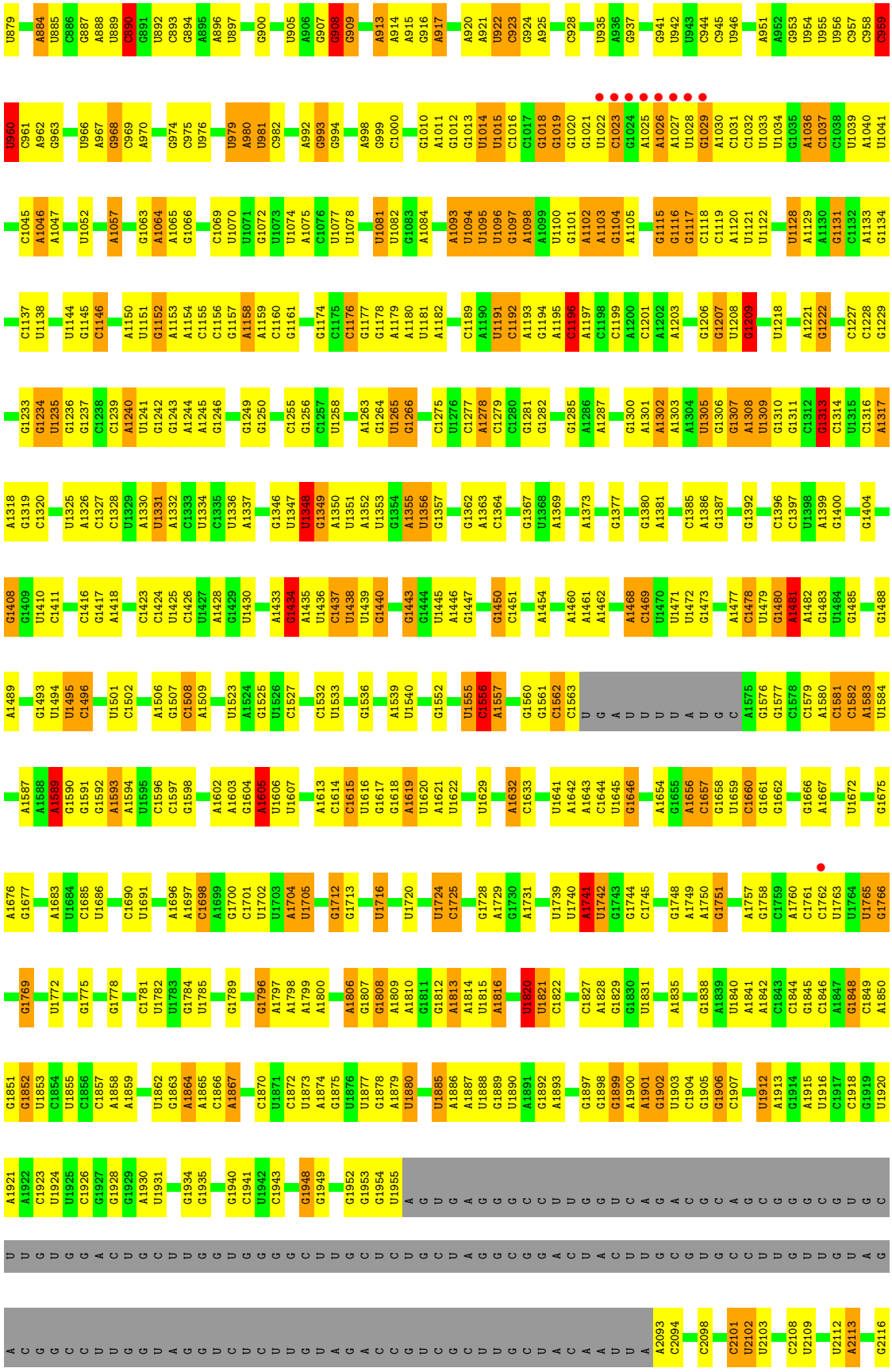
3 Residue-property plots (i)

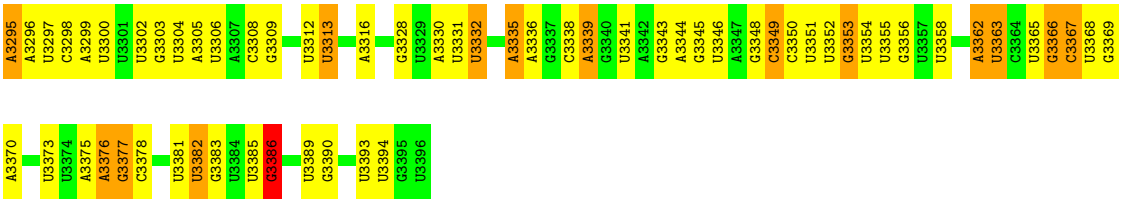
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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 dot above a residue indicates a poor fit to the electron density (RSRZ > 2). 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: 25S rRNA

Chain 25S: 43% 38% 11% • 6%

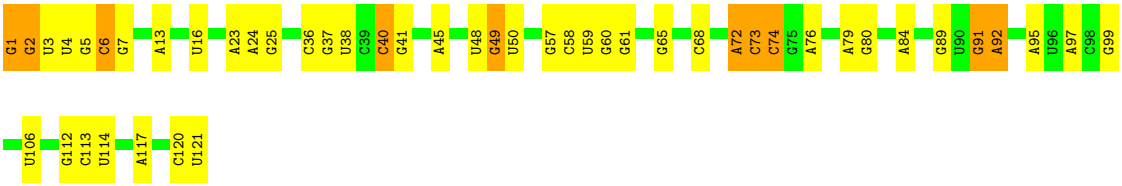






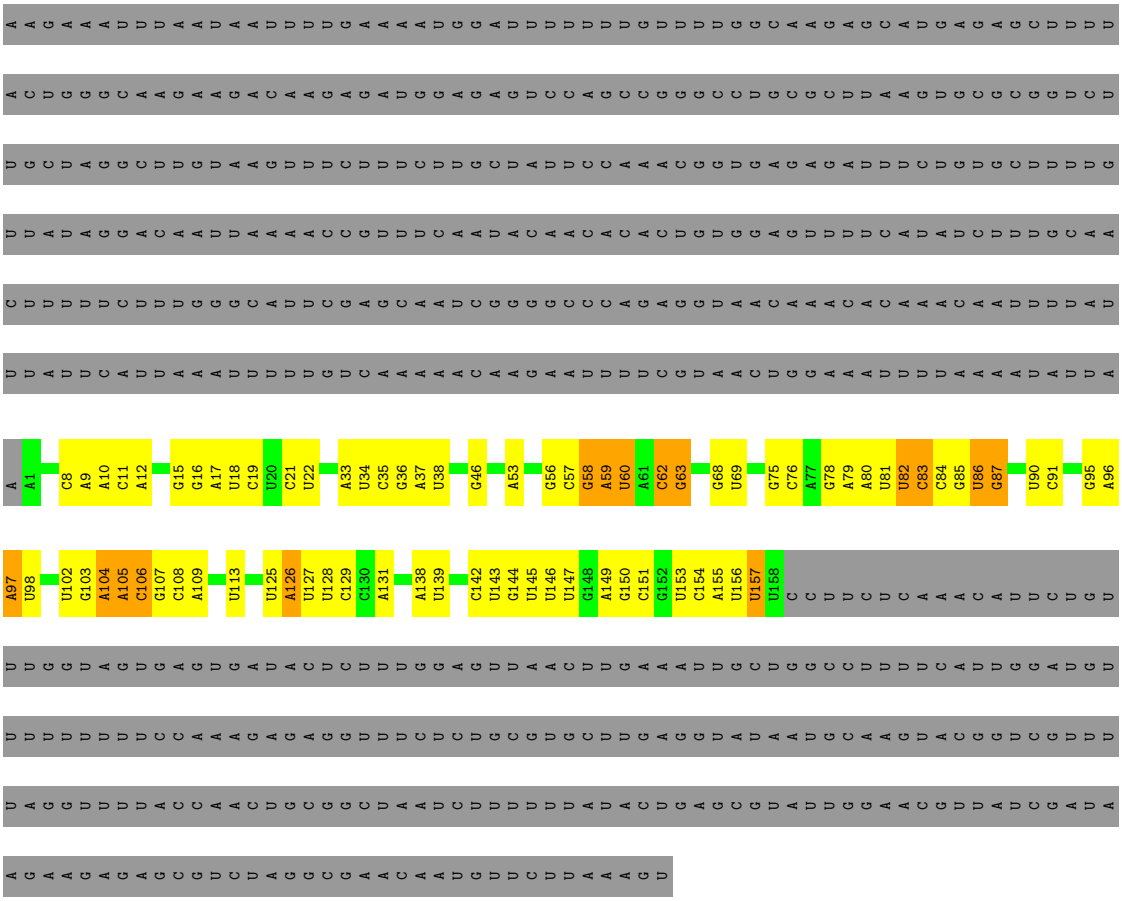
• Molecule 2: 5S

Chain AB:



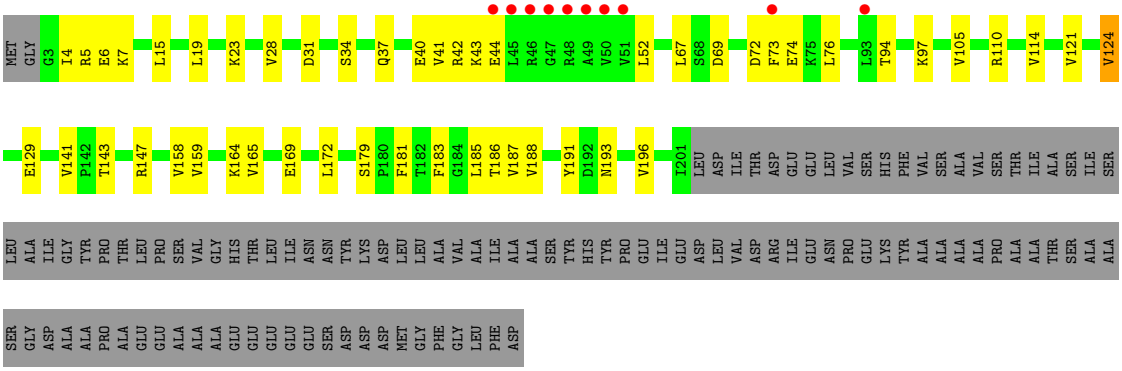
• Molecule 3: 5.8S rRNA

Chain 58S:



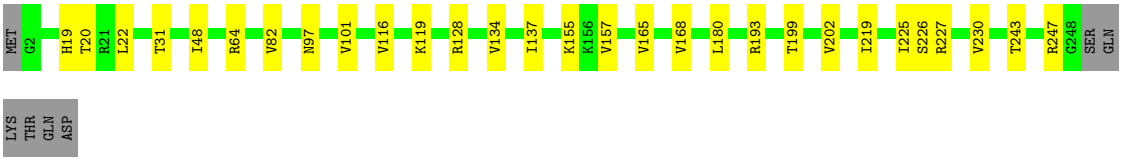
• Molecule 4: 60S acidic ribosomal protein P0

Chain uL10:



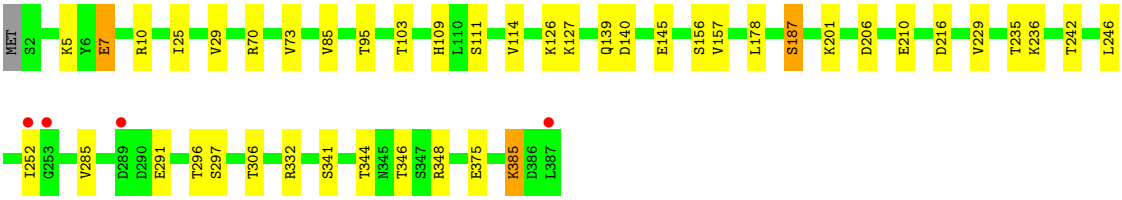
• Molecule 5: 60S ribosomal protein L2-B

Chain uL2:



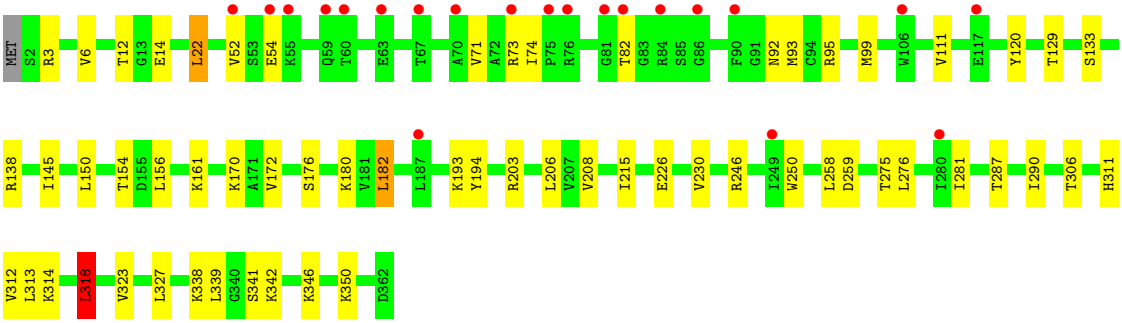
• Molecule 6: 60S ribosomal protein L3

Chain uL3:



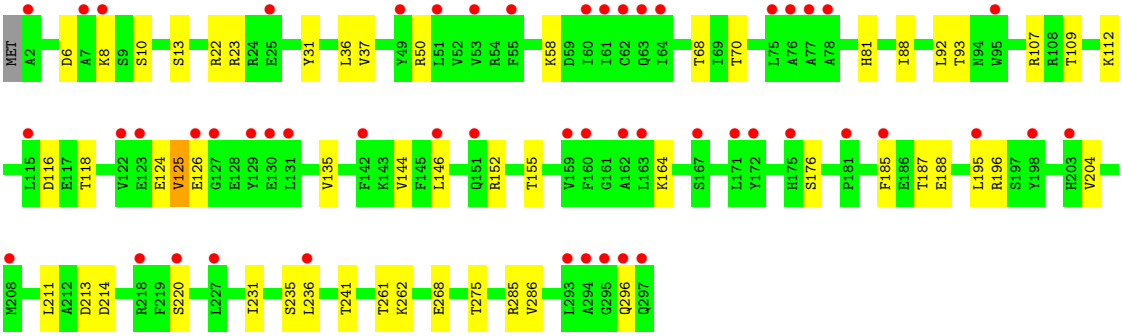
• Molecule 7: BJ4_G0008850.mRNA.1.CDS.1

Chain uL4:



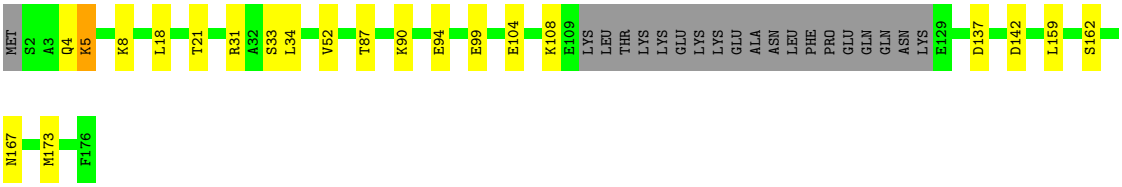
• Molecule 8: 60S ribosomal protein L5

Chain uL18:



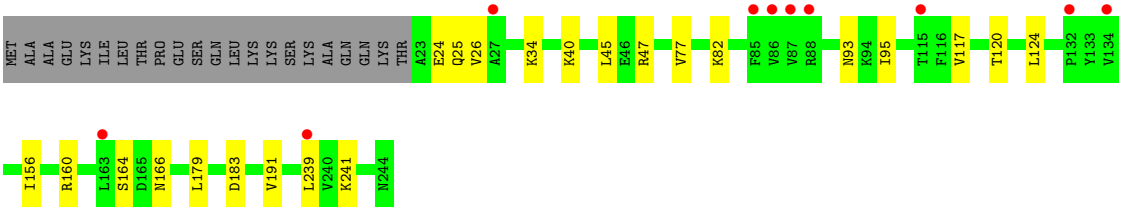
• Molecule 9: 60S ribosomal protein L6

Chain eL6:



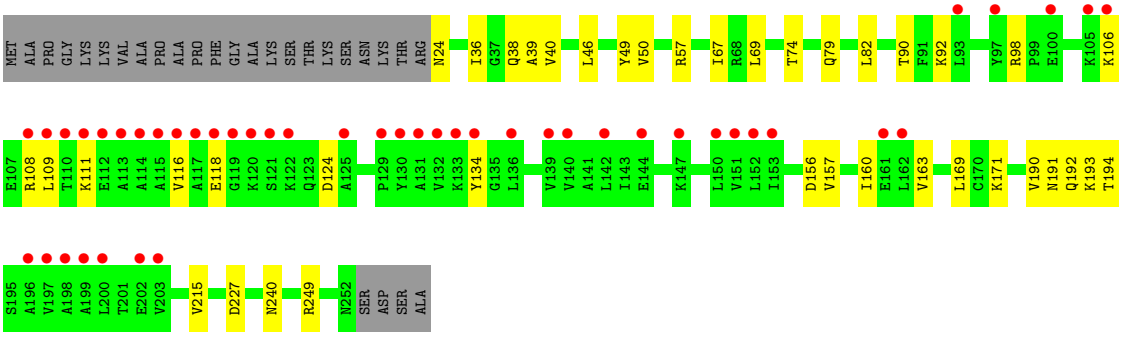
• Molecule 10: 60S ribosomal protein L7-A

Chain uL30:



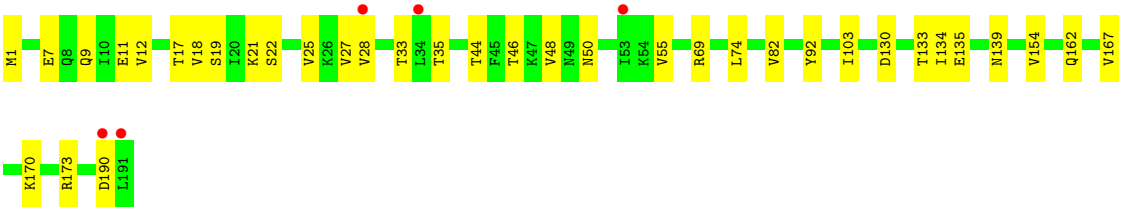
• Molecule 11: 60S ribosomal protein L8-A

Chain eL8:



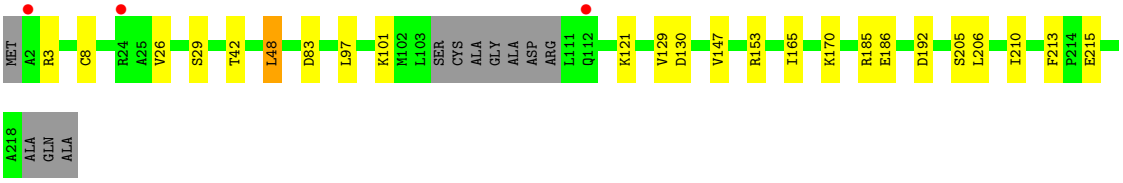
• Molecule 12: 60S ribosomal protein L9-A

Chain uL6:



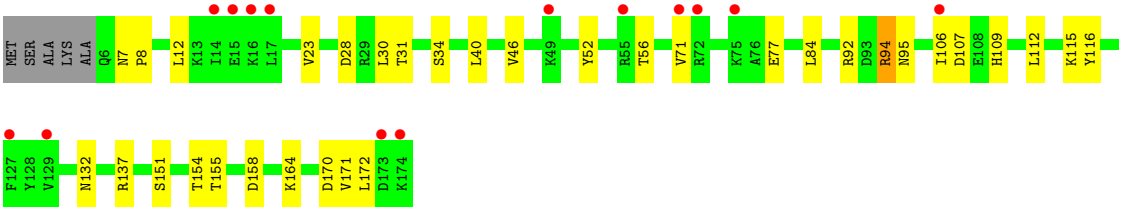
• Molecule 13: 60S ribosomal protein L10

Chain uL16:



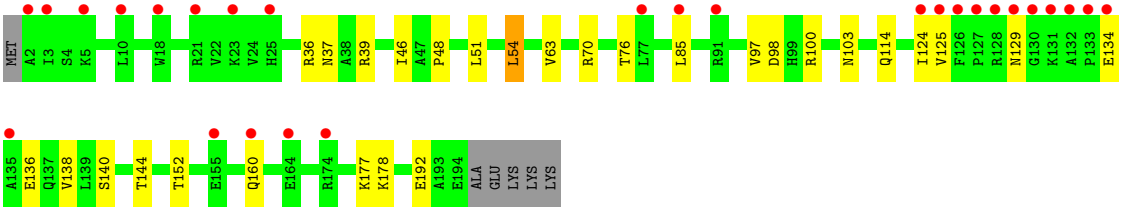
• Molecule 14: BJ4_G0027750.mRNA.1.CDS.1

Chain uL5:



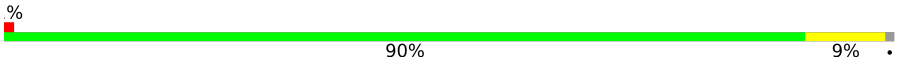
• Molecule 15: 60S ribosomal protein L13

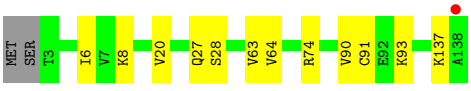
Chain eL13:



• Molecule 16: 60S ribosomal protein L14-A

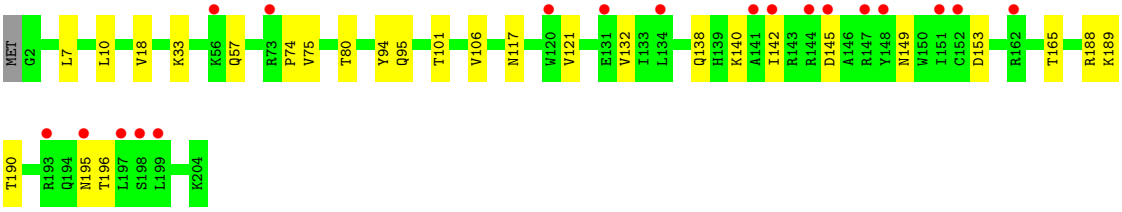
Chain eL14:



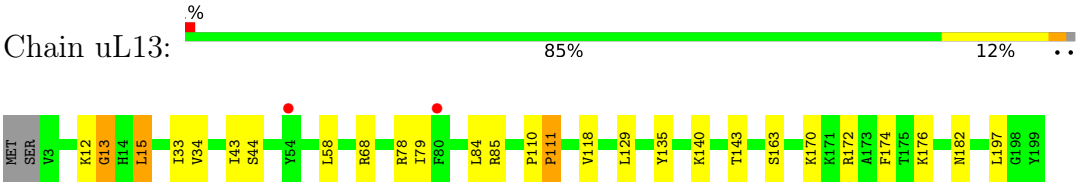


• Molecule 17: 60S ribosomal protein L15-A

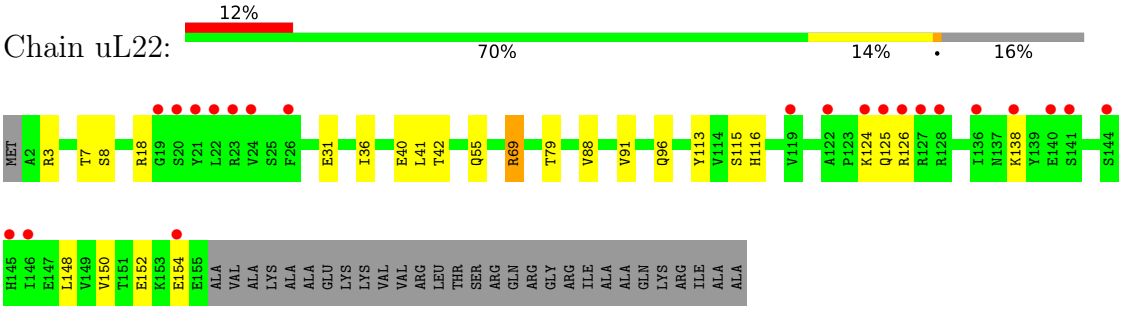
Chain eL15:



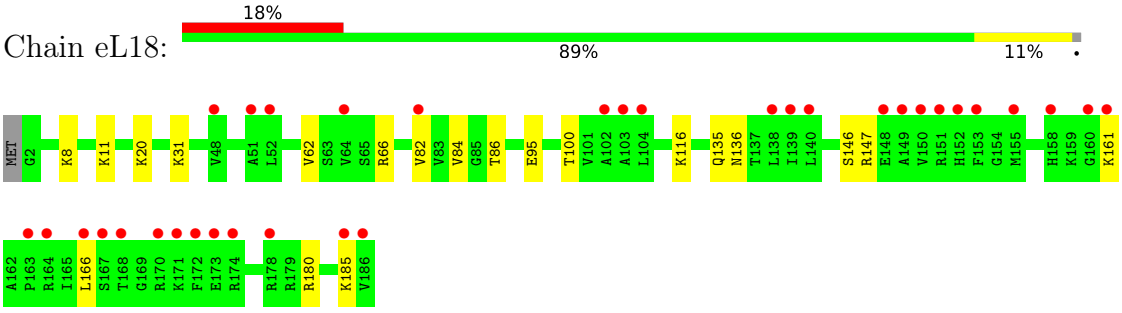
• Molecule 18: 60S ribosomal protein L16-A



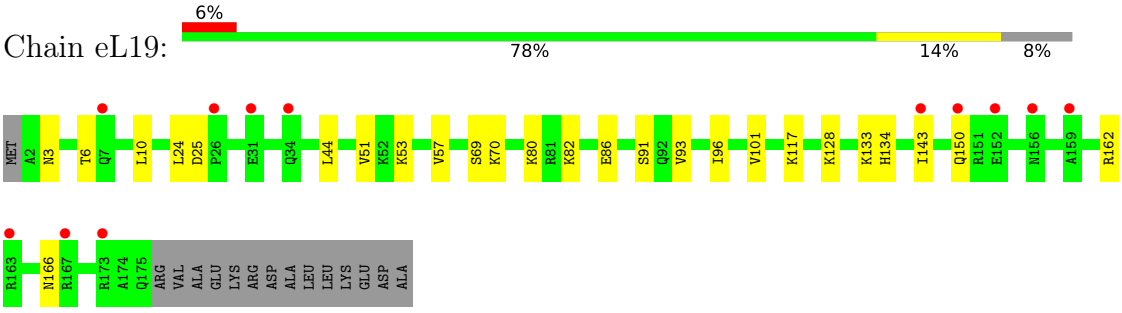
• Molecule 19: BJ4_G0005750.mRNA.1.CDS.1



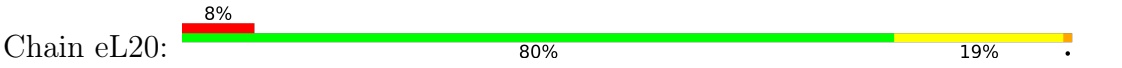
• Molecule 20: BJ4_G0033900.mRNA.1.CDS.1

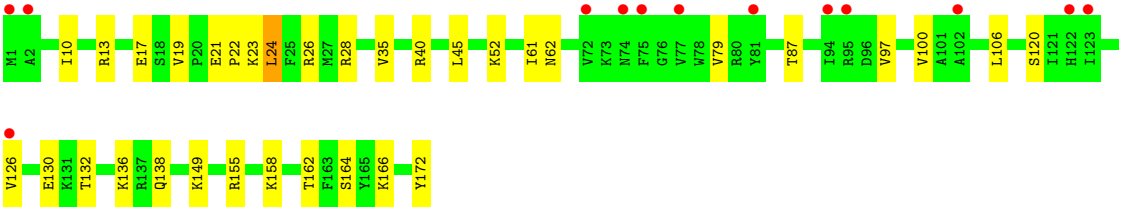


• Molecule 21: 60S ribosomal protein L19-A



• Molecule 22: 60S ribosomal protein L20





• Molecule 23: BJ4_G0003770.mRNA.1.CDS.1

Chain eL21:

• Molecule 24: 60S ribosomal protein L22-A

Chain eL22:

• Molecule 25: 60S ribosomal protein L23-B

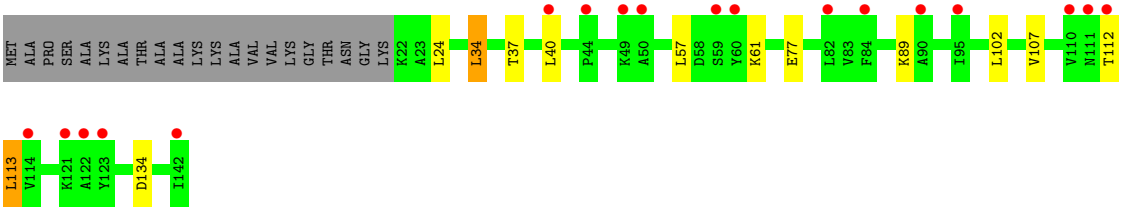
Chain uL14:

• Molecule 26: 60S ribosomal protein L24-A

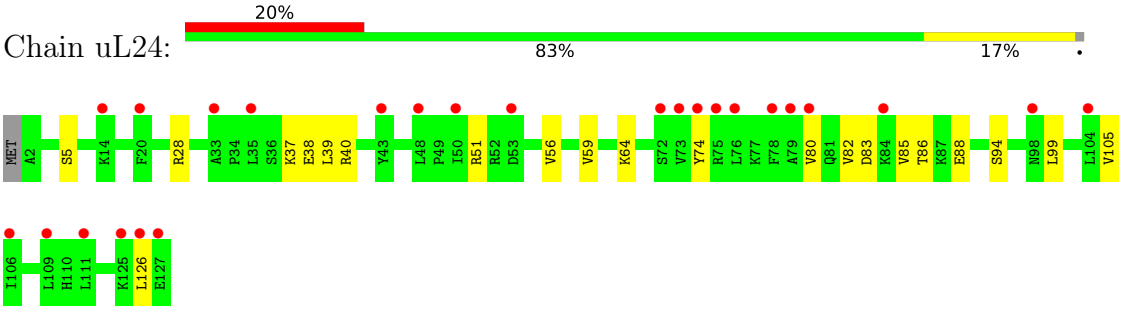
Chain eL24:

• Molecule 27: 60S ribosomal protein L25

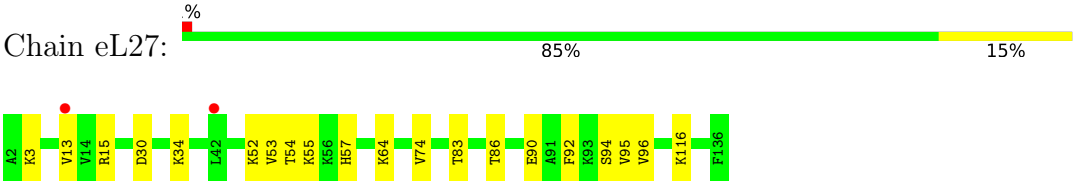
Chain uL23:



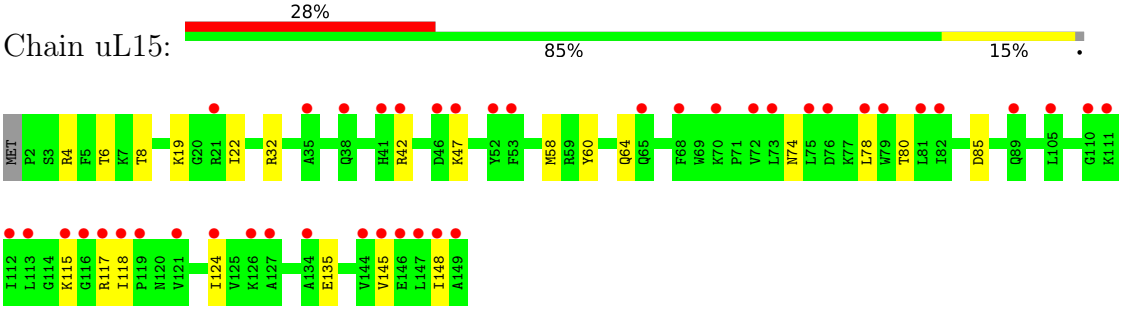
• Molecule 28: 60S ribosomal protein L26-A



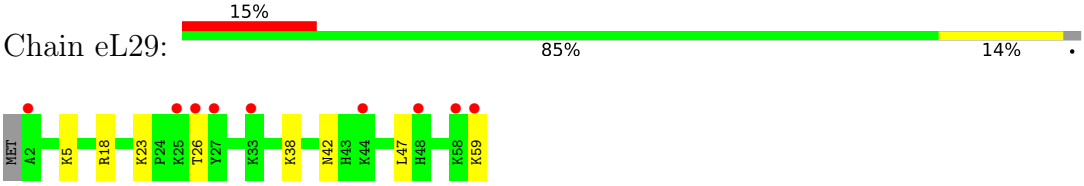
• Molecule 29: 60S ribosomal protein L27



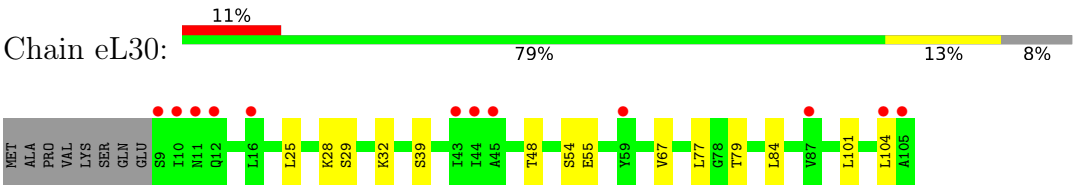
• Molecule 30: 60S ribosomal protein L28



• Molecule 31: 60S ribosomal protein L29

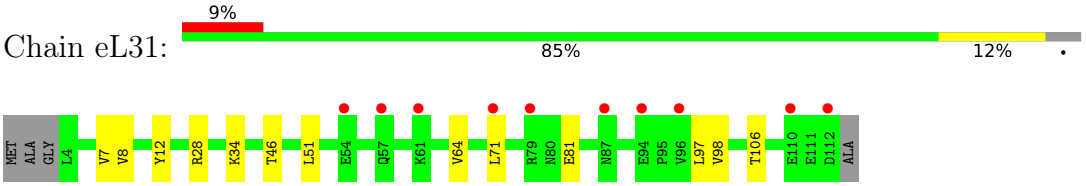


• Molecule 32: BJ4_G0020000.mRNA.1.CDS.1



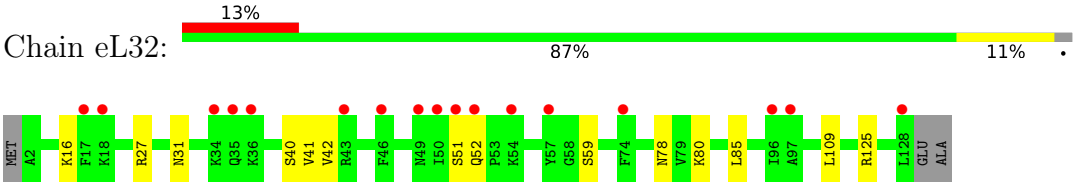
• Molecule 33: BJ4_G0008090.mRNA.1.CDS.1

Chain eL31:



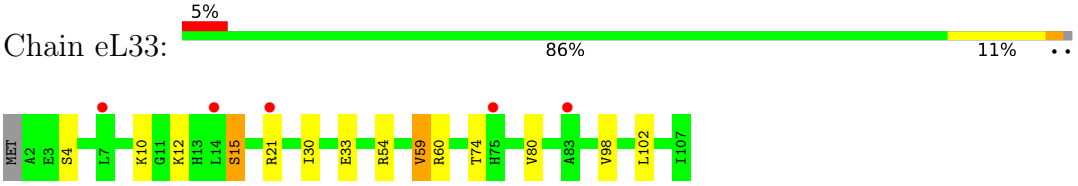
• Molecule 34: HN1_G0013350.mRNA.1.CDS.1

Chain eL32:



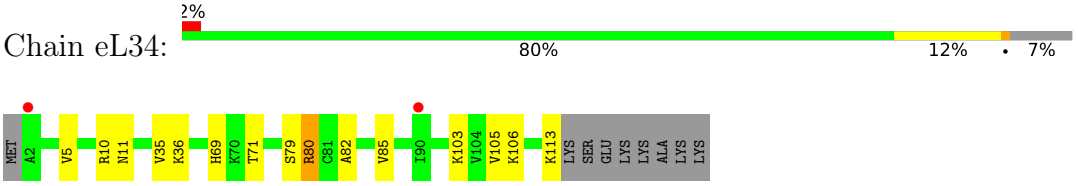
• Molecule 35: BJ4_G0025510.mRNA.1.CDS.1

Chain eL33:



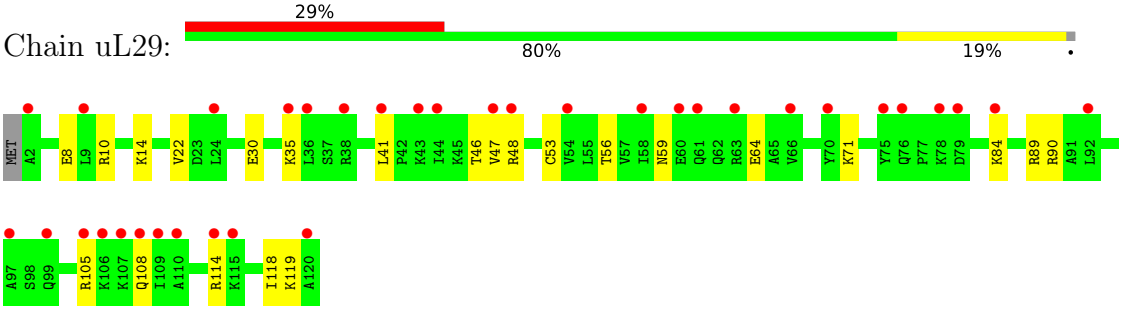
• Molecule 36: 60S ribosomal protein L34-A

Chain eL34:



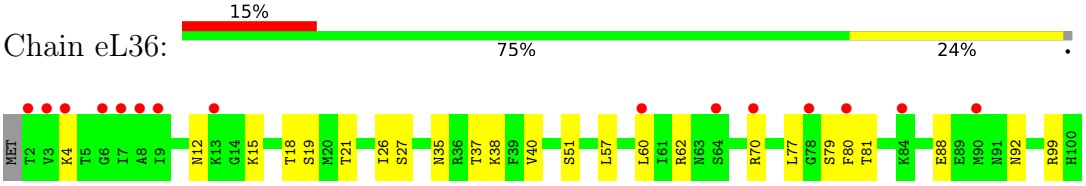
• Molecule 37: BJ4_G0044250.mRNA.1.CDS.1

Chain uL29:



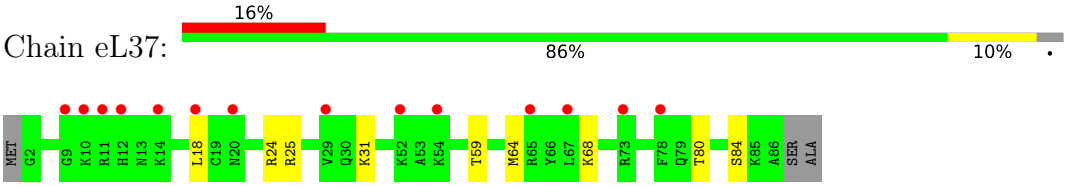
• Molecule 38: 60S ribosomal protein L36-A

Chain eL36:



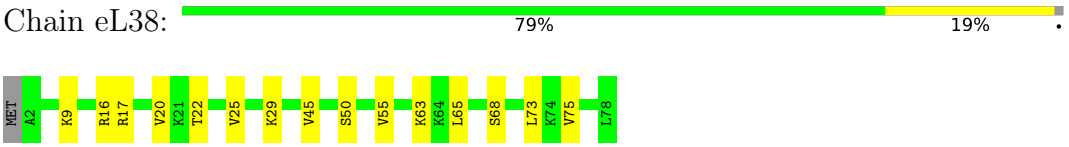
• Molecule 39: Ribosomal protein L37

Chain eL37:



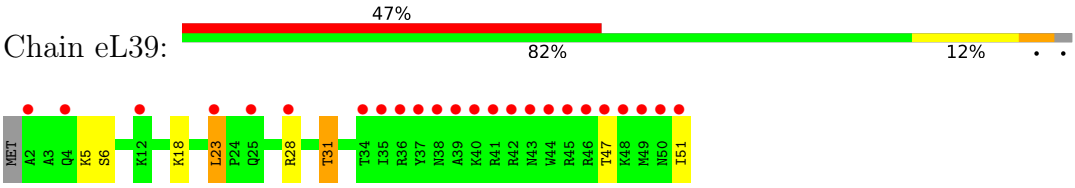
• Molecule 40: BJ4_G0032190.mRNA.1.CDS.1

Chain eL38:



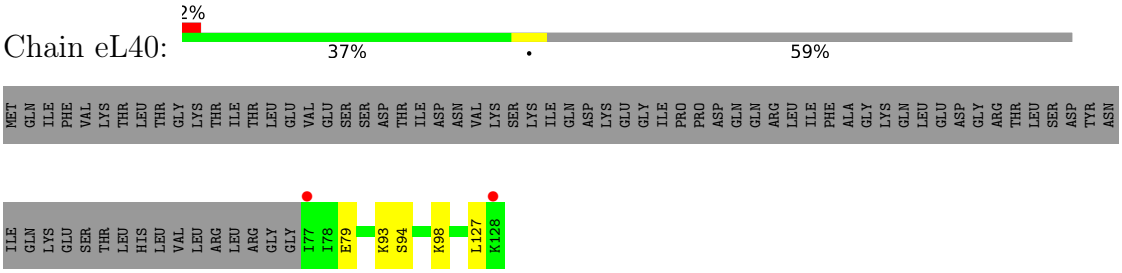
• Molecule 41: 60S ribosomal protein L39

Chain eL39:



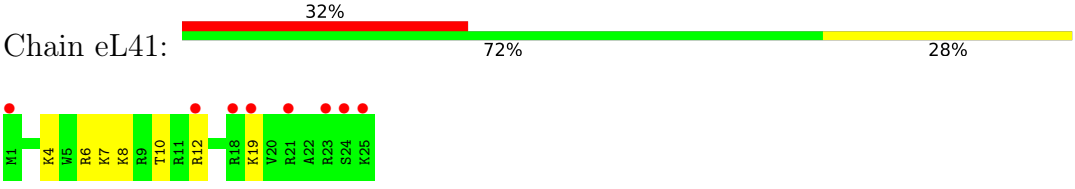
• Molecule 42: Ubiquitin

Chain eL40:



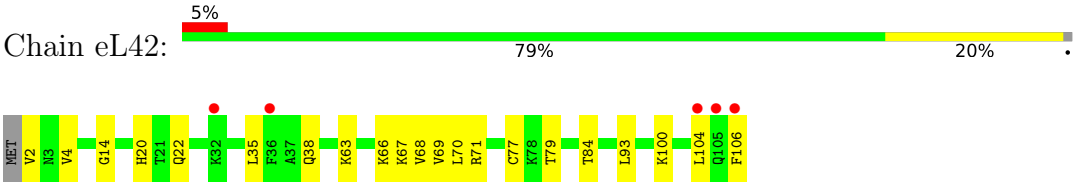
• Molecule 43: eL41

Chain eL41:



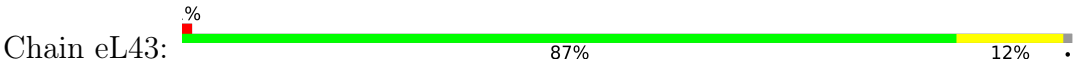
• Molecule 44: BJ4_G0001880.mRNA.1.CDS.1

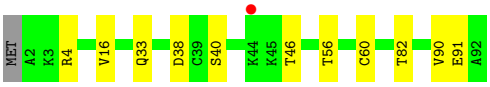
Chain eL42:



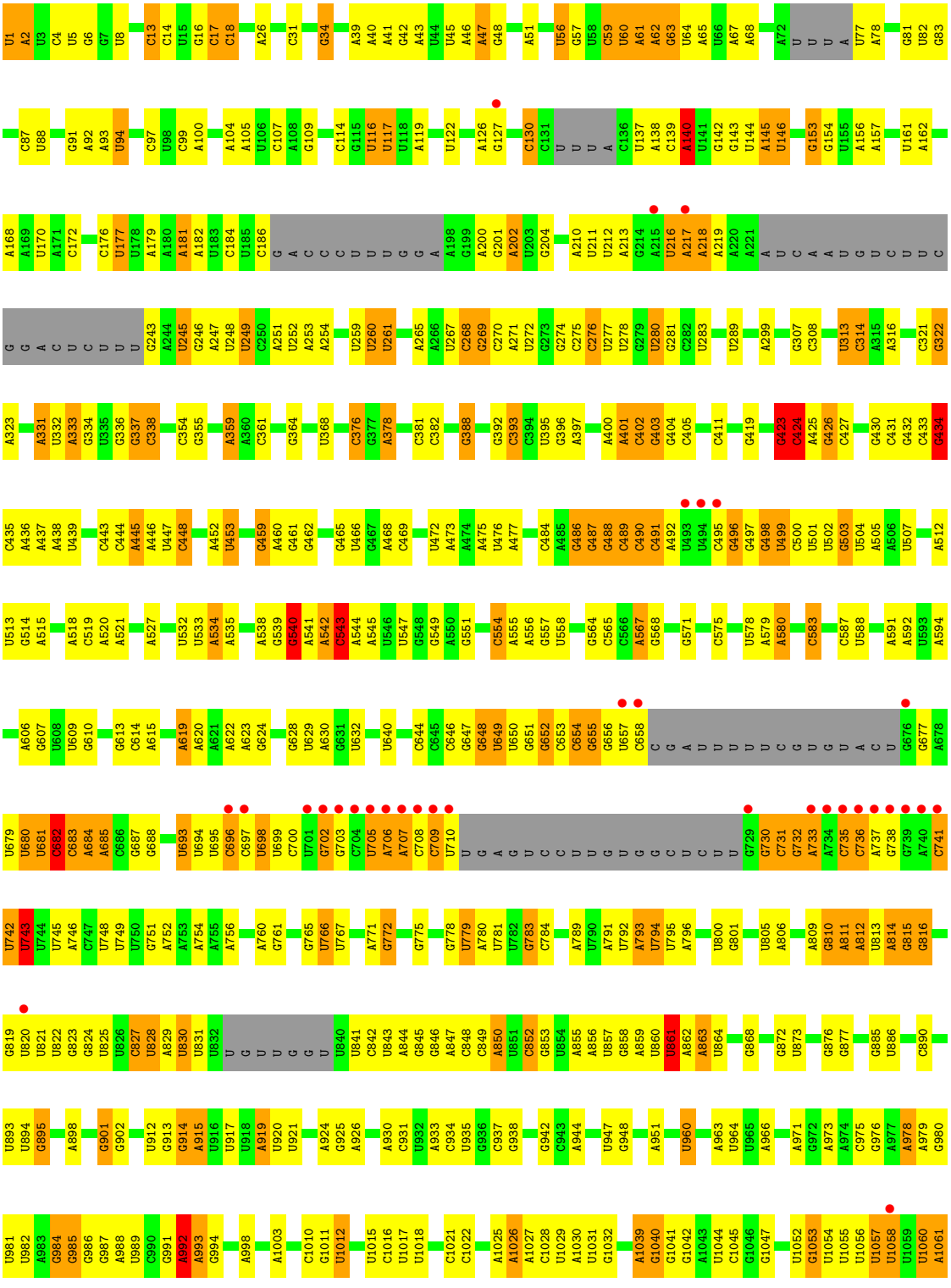
• Molecule 45: 60S ribosomal protein L43-A

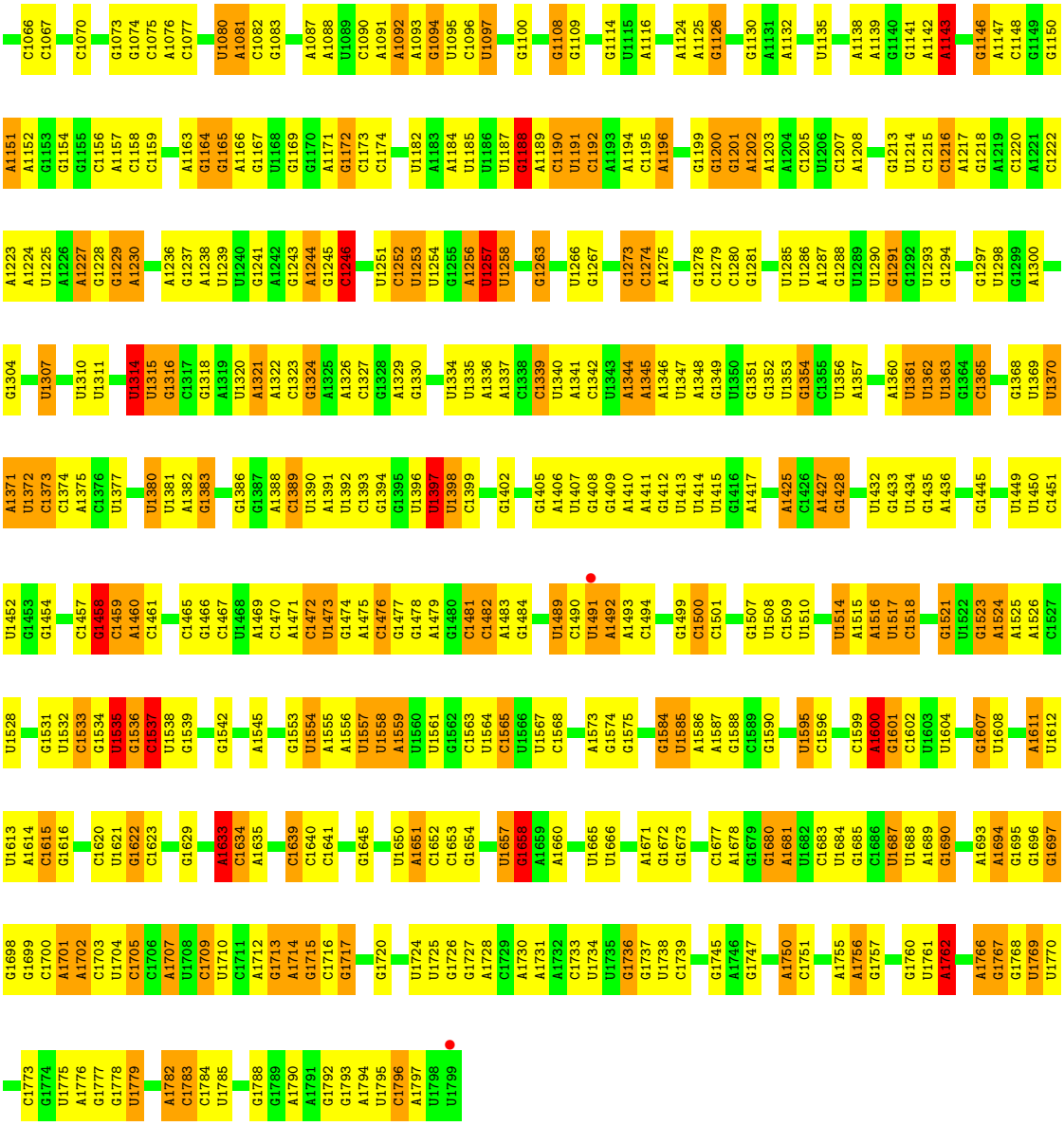
Chain eL43:





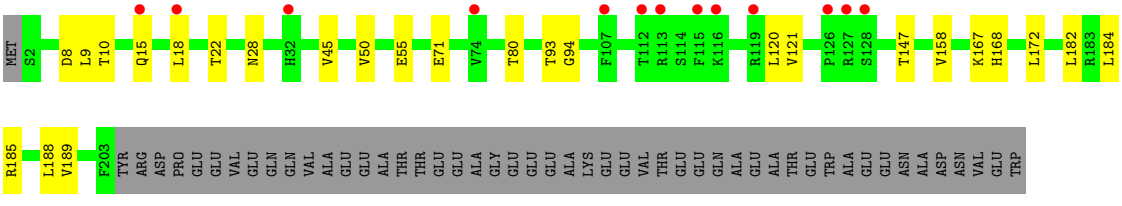
• Molecule 46: 18S rRNA





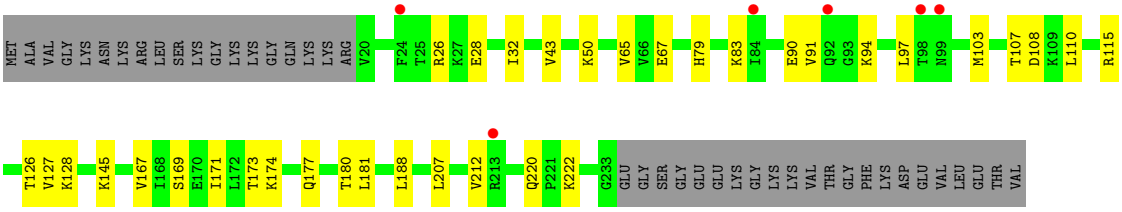
• Molecule 47: 40S ribosomal protein S0

Chain uS2:



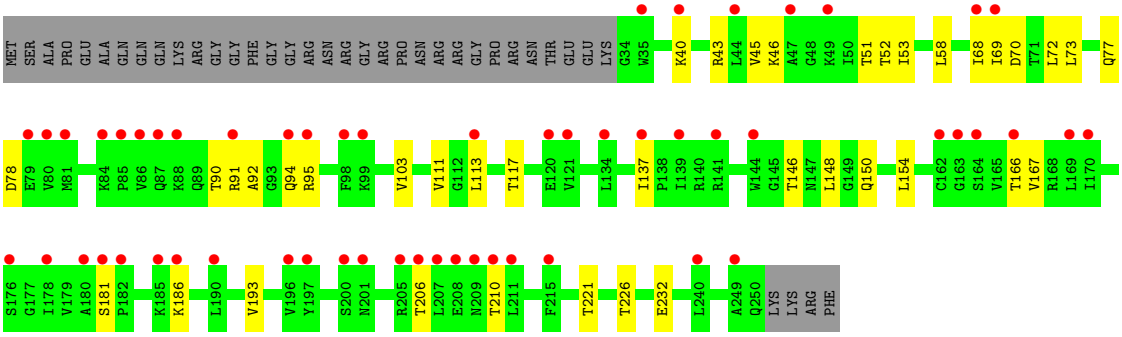
• Molecule 48: 40S ribosomal protein S1

Chain eS1:



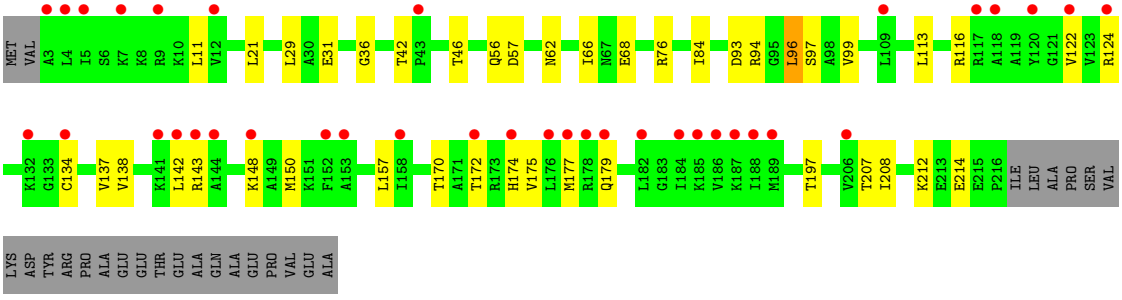
• Molecule 49: 40S ribosomal protein S2

Chain uS5:



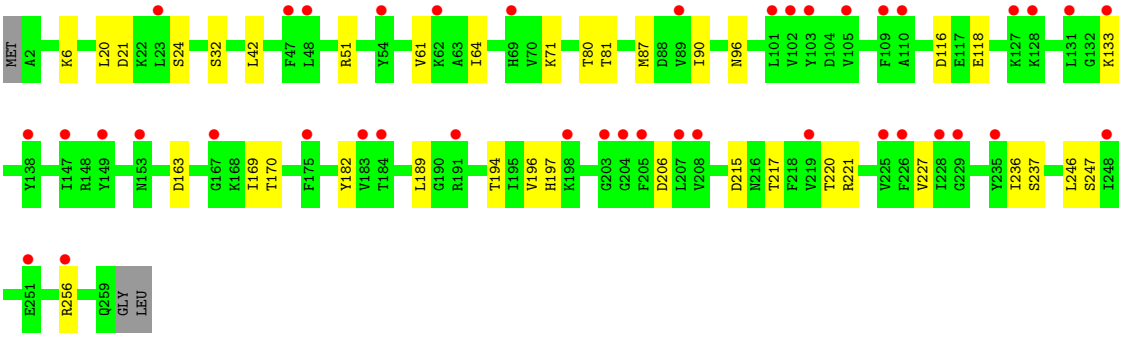
• Molecule 50: BJ4_G0045400.mRNA.1.CDS.1

Chain uS3:



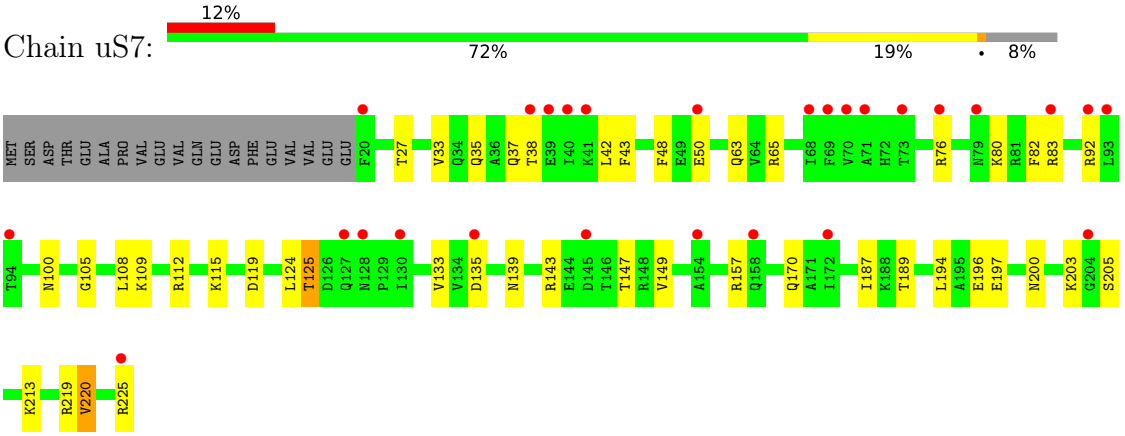
• Molecule 51: 40S ribosomal protein S4

Chain eS4:



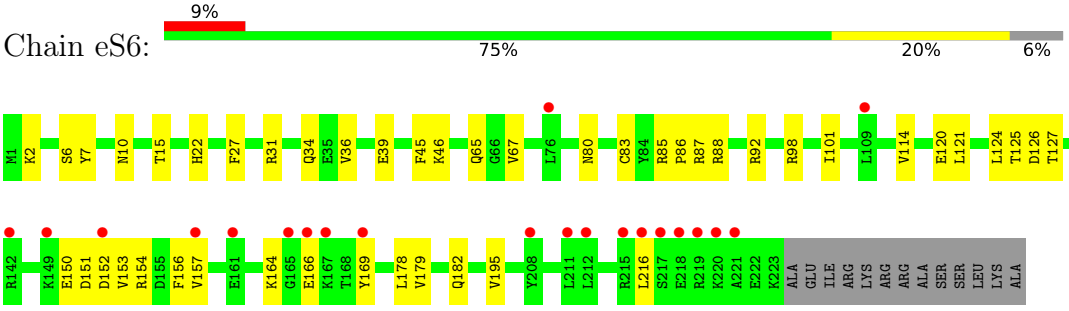
• Molecule 52: Rps5p

Chain uS7:



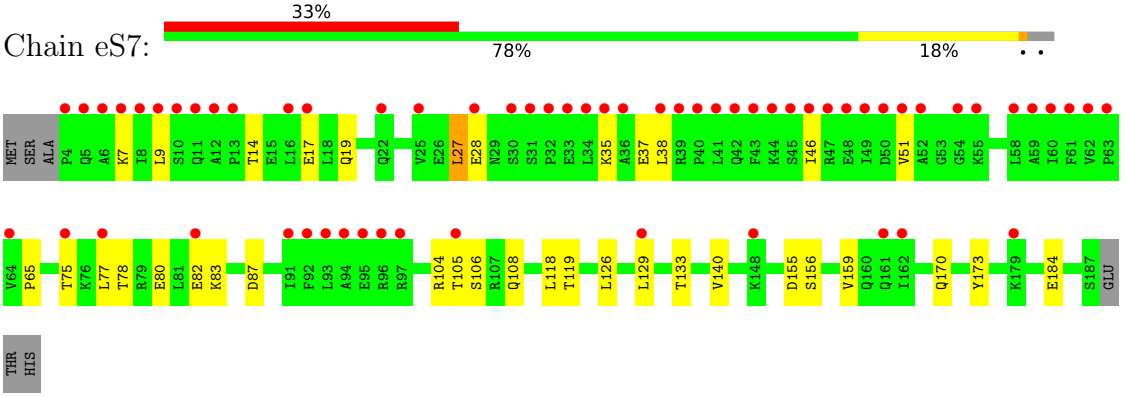
• Molecule 53: 40S ribosomal protein S6

Chain eS6:



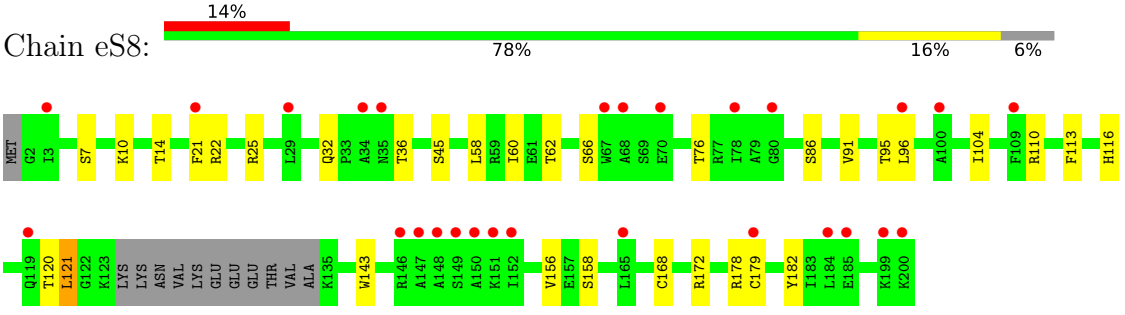
• Molecule 54: 40S ribosomal protein S7

Chain eS7:



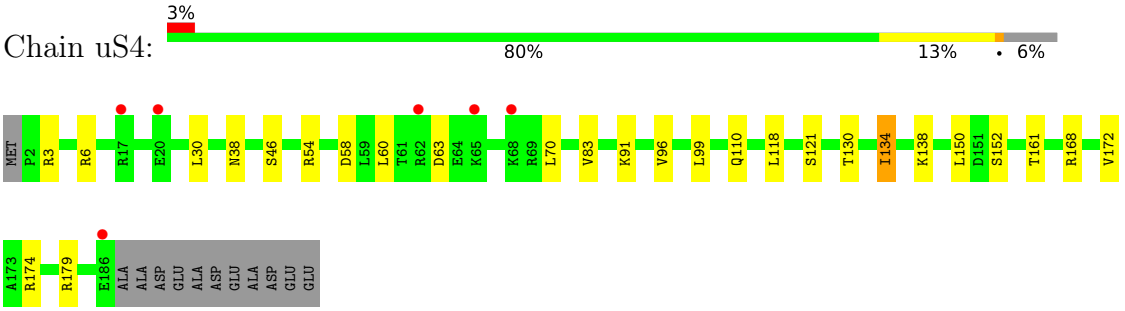
• Molecule 55: 40S ribosomal protein S8

Chain eS8:



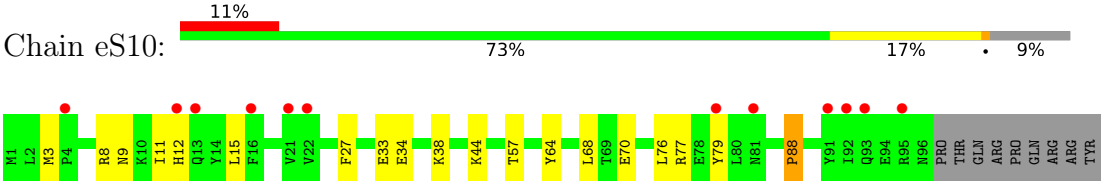
• Molecule 56: BJ4_G0026100.mRNA.1.CDS.1

Chain uS4:



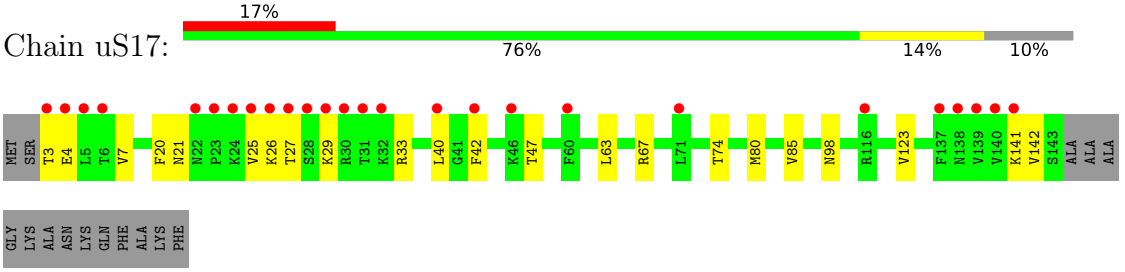
• Molecule 57: 40S ribosomal protein S10-A

Chain eS10:



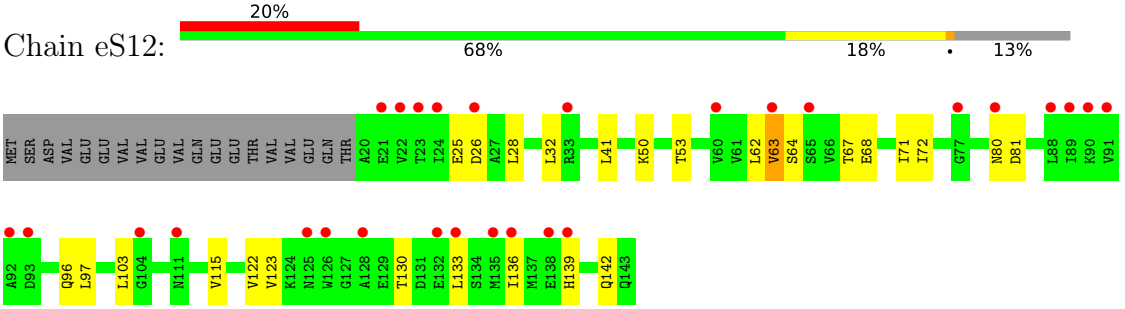
• Molecule 58: 40S ribosomal protein S11-B

Chain uS17:



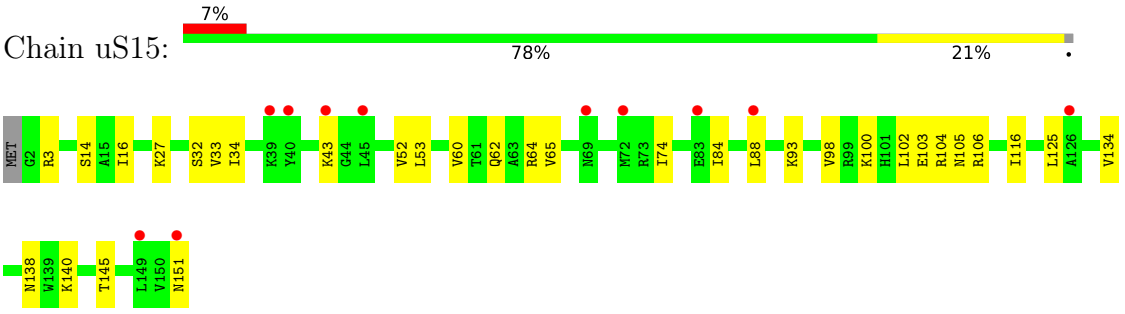
• Molecule 59: 40S ribosomal protein S12

Chain eS12:



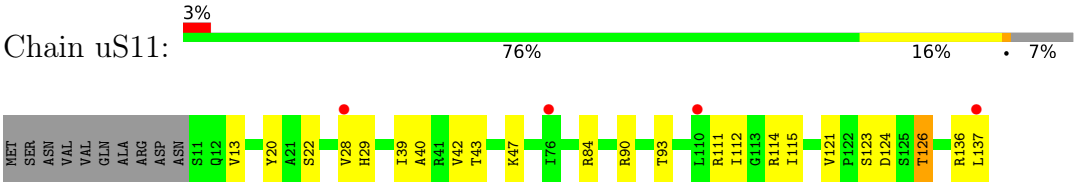
• Molecule 60: 40S ribosomal protein S13

Chain uS15:



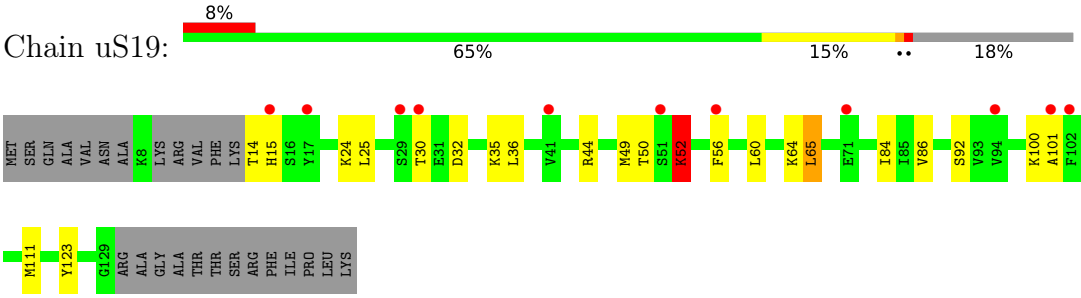
• Molecule 61: 40S ribosomal protein S14-A

Chain uS11:



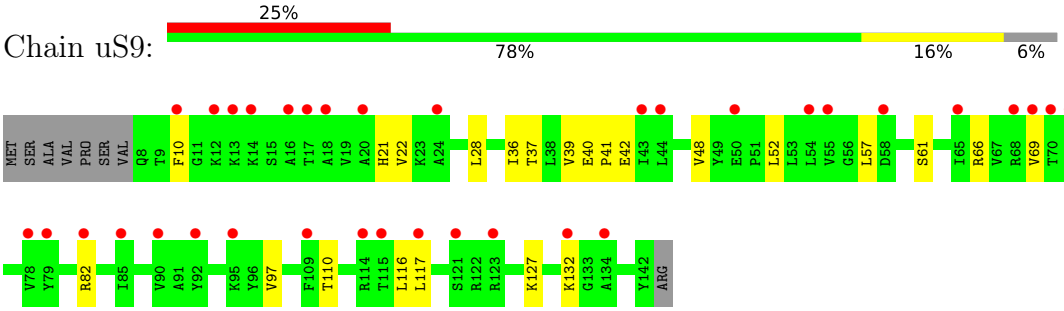
• Molecule 62: 40S ribosomal protein S15

Chain uS19:



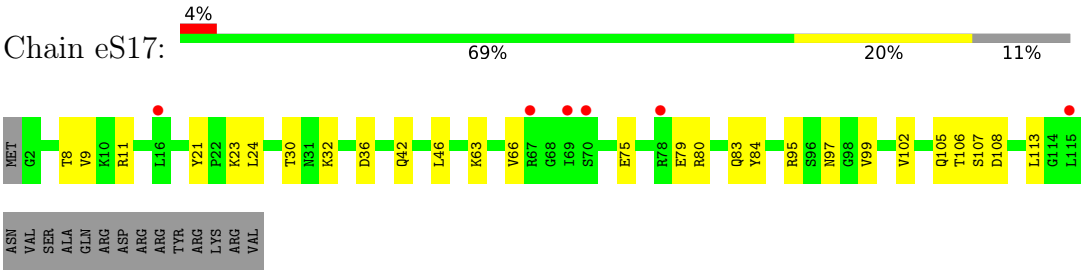
• Molecule 63: BJ4_G0008010.mRNA.1.CDS.1

Chain uS9:



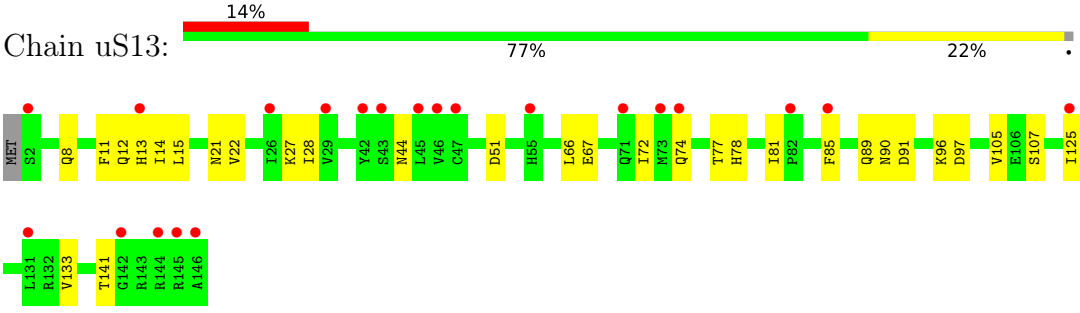
• Molecule 64: BJ4_G0020710.mRNA.1.CDS.1

Chain eS17:



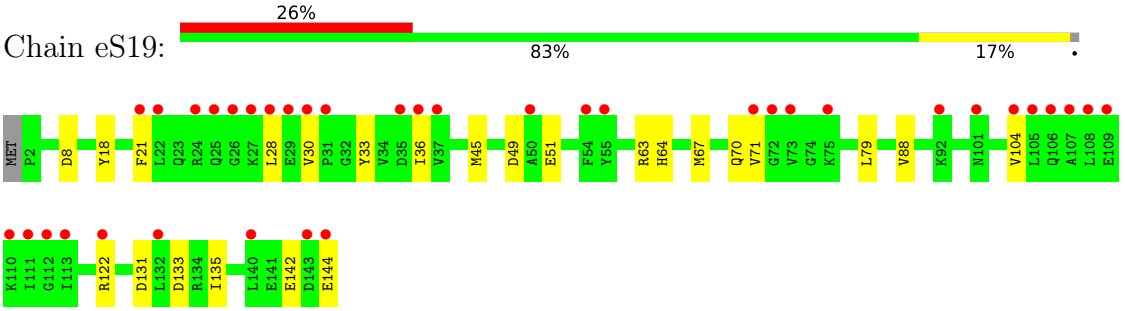
• Molecule 65: 40S ribosomal protein S18-B

Chain uS13:



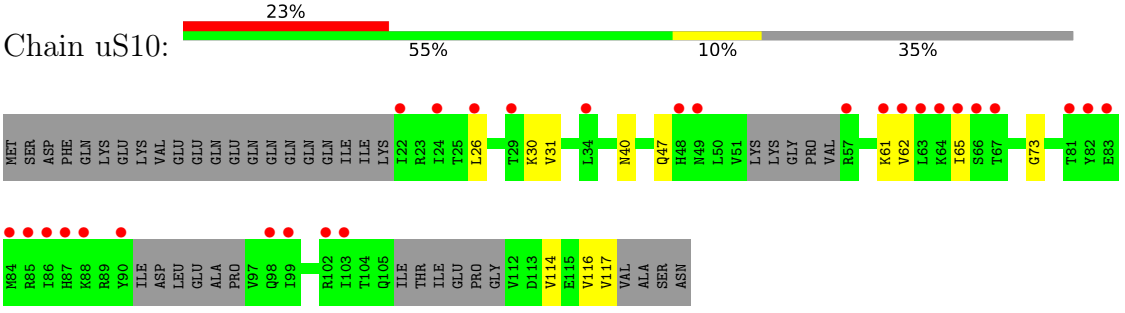
• Molecule 66: 40S ribosomal protein S19-A

Chain eS19:



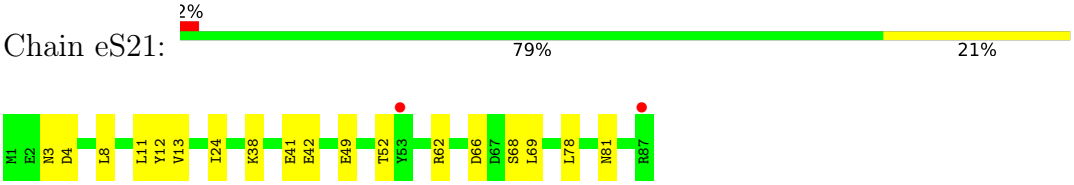
• Molecule 67: 40S ribosomal protein S20

Chain uS10:



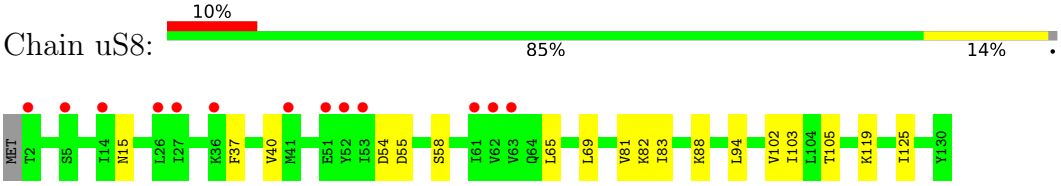
• Molecule 68: 40S ribosomal protein S21

Chain eS21:



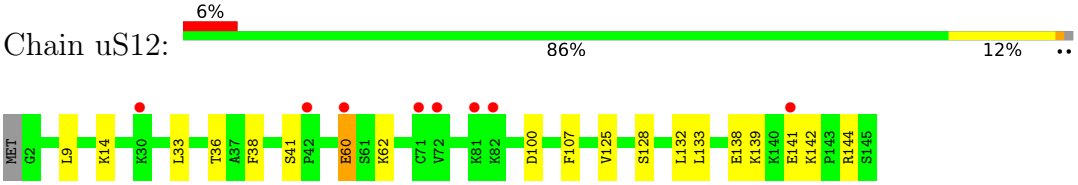
• Molecule 69: 40S ribosomal protein S22-A

Chain uS8:



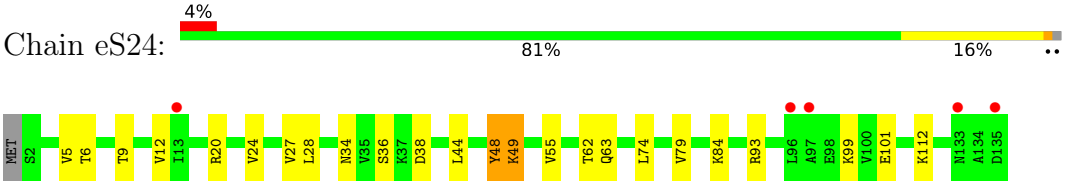
• Molecule 70: 40S ribosomal protein S23

Chain uS12:



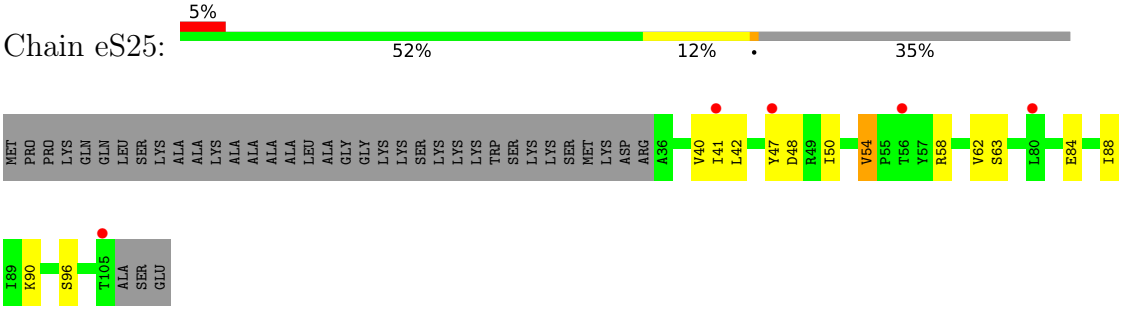
• Molecule 71: 40S ribosomal protein S24

Chain eS24:



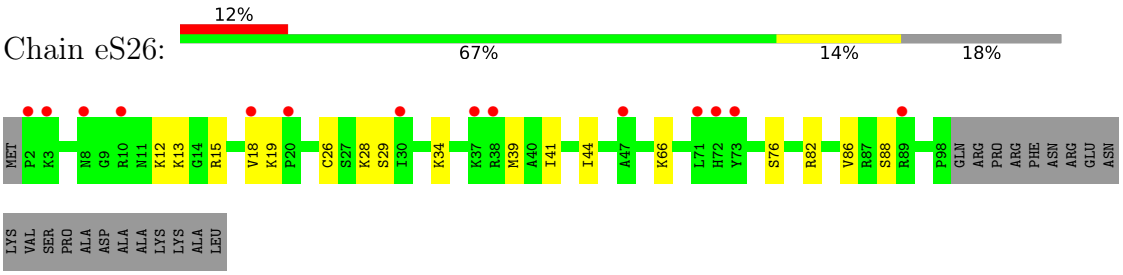
• Molecule 72: 40S ribosomal protein S25

Chain eS25:



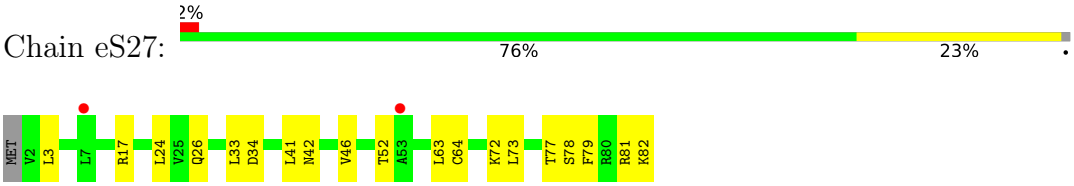
• Molecule 73: 40S ribosomal protein S26

Chain eS26:



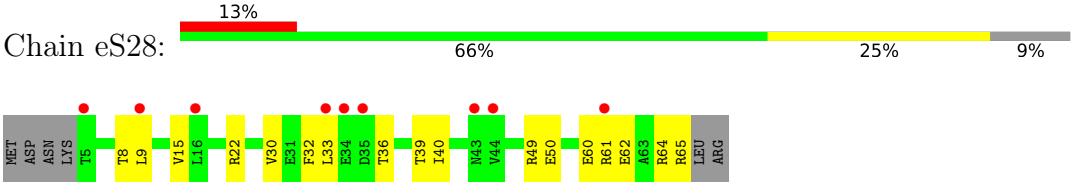
• Molecule 74: 40S ribosomal protein S27-A

Chain eS27:



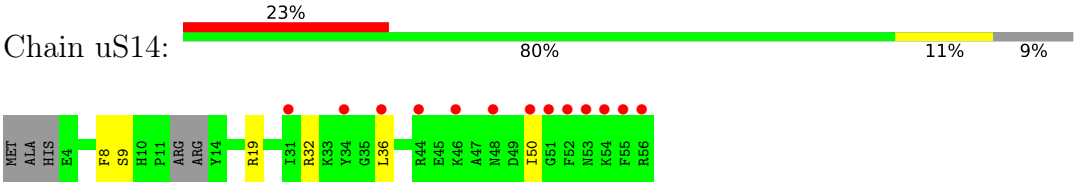
• Molecule 75: eS28

Chain eS28:



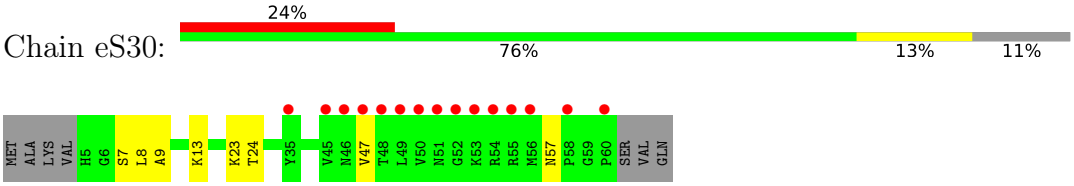
• Molecule 76: HLJ1_G0030400.mRNA.1.CDS.1

Chain uS14:



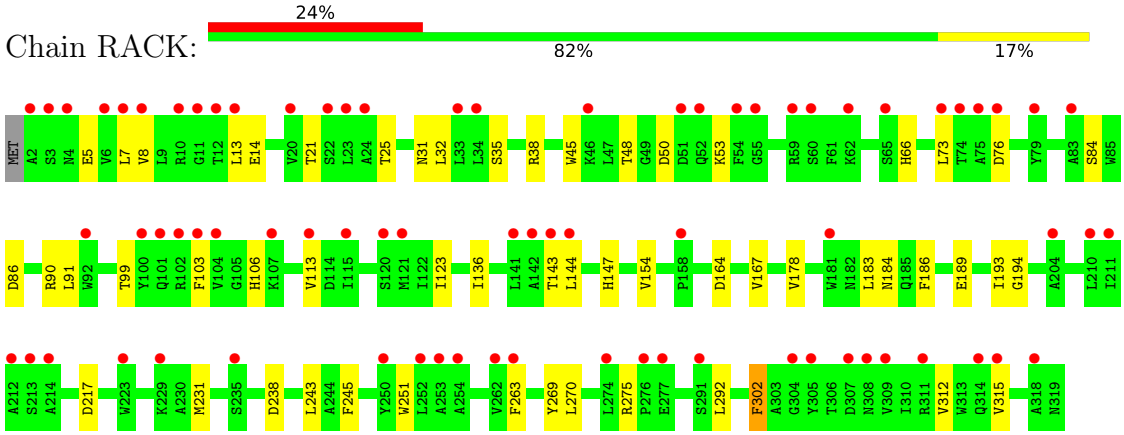
• Molecule 77: 40S ribosomal protein S30

Chain eS30:



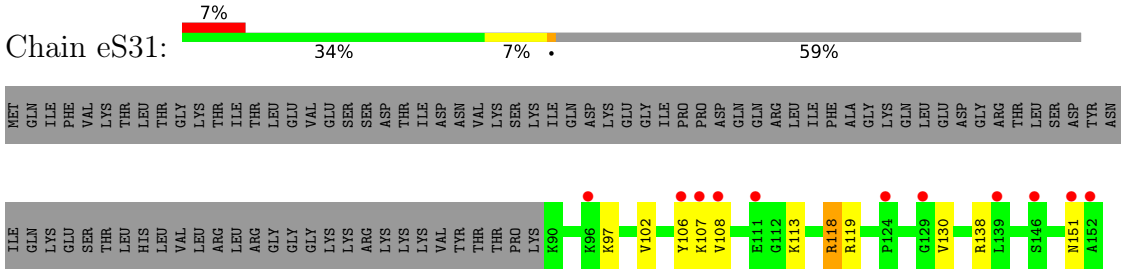
• Molecule 78: BJ4_G0022010.mRNA.1.CDS.1

Chain RACK:



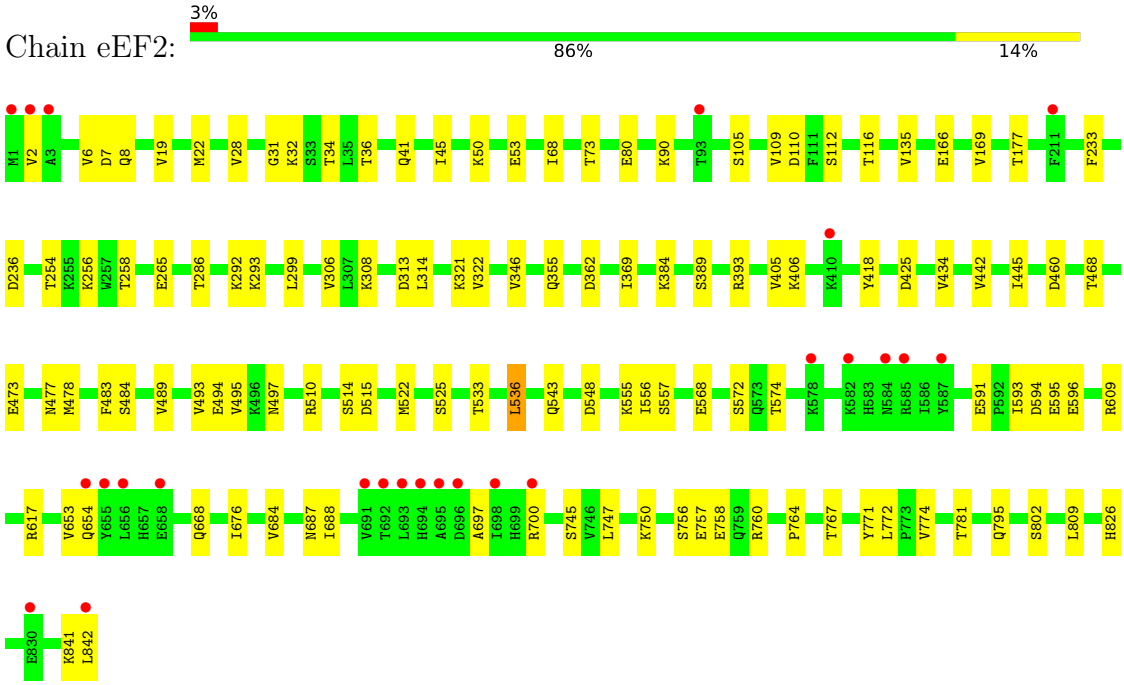
• Molecule 79: Ubiquitin-40S ribosomal protein S31

Chain eS31:



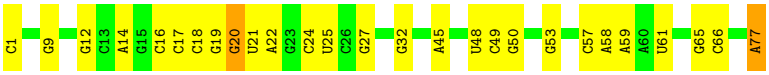
• Molecule 80: Elongation factor 2

Chain eEF2:



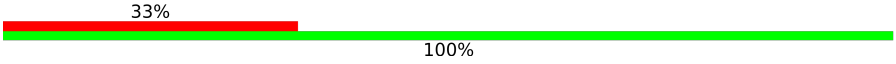
• Molecule 81: Psite tRNA-Phe

Chain PSIT:



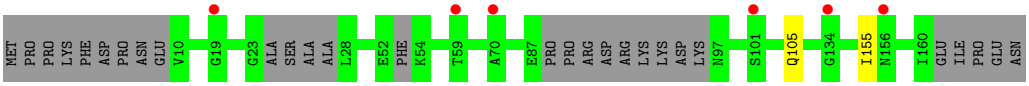
• Molecule 82: MRNA

Chain mRNA:



• Molecule 83: 60S ribosomal protein L12-B

Chain uL11:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	227.11Å 309.35Å 527.96Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	154.68 – 3.00 208.63 – 2.89	Depositor EDS
% Data completeness (in resolution range)	100.0 (154.68-3.00) 92.3 (208.63-2.89)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	0.38 (at 2.91Å)	Xtriage
Refinement program	PHENIX 1.16_3549	Depositor
R, R_{free}	0.196 , 0.250 0.199 , 0.255	Depositor DCC
R_{free} test set	2000 reflections (0.24%)	wwPDB-VP
Wilson B-factor (Å^2)	98.2	Xtriage
Anisotropy	0.106	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	(Not available) , (Not available)	EDS
L-test for twinning[2]	$< \|L\| > = 0.46$, $< L^2 > = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.93	EDS
Total number of atoms	208056	wwPDB-VP
Average B, all atoms (Å^2)	119.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.57% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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

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	25S	0.80	15/76146 (0.0%)	1.40	847/118714 (0.7%)
2	AB	0.92	1/2883 (0.0%)	1.36	21/4491 (0.5%)
3	58S	0.61	0/3746	1.12	2/5832 (0.0%)
4	uL10	0.38	0/1570	0.63	0/2123
5	uL2	0.54	0/1912	0.77	0/2569
6	uL3	0.57	1/3146 (0.0%)	0.78	0/4228
7	uL4	0.43	0/2800	0.70	2/3790 (0.1%)
8	uL18	0.43	0/2425	0.67	0/3271
9	eL6	0.43	0/1260	0.65	0/1694
10	uL30	0.51	0/1821	0.67	0/2451
11	eL8	0.40	0/1811	0.61	0/2447
12	uL6	0.50	0/1539	0.70	0/2073
13	uL16	0.54	0/1746	0.73	1/2341 (0.0%)
14	uL5	0.38	0/1374	0.67	0/1842
15	eL13	0.39	0/1568	0.67	1/2106 (0.0%)
16	eL14	0.48	0/1068	0.70	0/1438
17	eL15	0.44	0/1757	0.72	0/2354
18	uL13	0.57	0/1585	0.80	1/2128 (0.0%)
19	uL22	0.49	0/1245	0.70	0/1676
20	eL18	0.45	0/1465	0.72	0/1965
21	eL19	0.49	0/1426	0.71	0/1901
22	eL20	0.52	0/1481	0.71	0/1990
23	eL21	0.54	0/1300	0.70	0/1743
24	eL22	0.42	0/794	0.61	0/1076
25	uL14	0.59	0/996	0.79	0/1340
26	eL24	0.54	0/533	0.75	0/707
27	uL23	0.46	0/979	0.69	2/1321 (0.2%)
28	uL24	0.39	0/1004	0.67	1/1341 (0.1%)
29	eL27	0.44	0/1118	0.62	0/1497
30	uL15	0.50	0/1204	0.73	0/1612
31	eL29	0.40	0/473	0.64	0/629
32	eL30	0.48	0/750	0.66	0/1008

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
33	eL31	0.47	0/897	0.73	0/1205
34	eL32	0.47	0/1041	0.72	1/1394 (0.1%)
35	eL33	0.51	0/868	0.73	0/1168
36	eL34	0.47	0/890	0.74	0/1189
37	uL29	0.42	0/978	0.65	0/1301
38	eL36	0.43	0/778	0.70	0/1034
39	eL37	0.54	0/685	0.82	0/908
40	eL38	0.43	0/618	0.69	0/826
41	eL39	0.47	0/443	0.81	1/588 (0.2%)
42	eL40	0.60	0/423	0.78	0/562
43	eL41	0.59	0/234	0.94	0/300
44	eL42	0.52	0/860	0.74	0/1136
45	eL43	0.57	0/701	0.79	0/934
46	18S	0.67	5/40923 (0.0%)	1.25	252/63757 (0.4%)
47	uS2	0.41	0/1594	0.65	0/2182
48	eS1	0.38	0/1729	0.63	0/2328
49	uS5	0.44	0/1665	0.68	1/2263 (0.0%)
50	uS3	0.38	0/1687	0.67	1/2269 (0.0%)
51	eS4	0.39	0/2097	0.71	0/2823
52	uS7	0.37	0/1629	0.65	0/2202
53	eS6	0.47	1/1814 (0.1%)	0.75	0/2425
54	eS7	0.36	0/1506	0.67	1/2028 (0.0%)
55	eS8	0.44	0/1514	0.75	0/2021
56	uS4	0.41	0/1519	0.73	0/2035
57	eS10	0.36	0/789	0.63	1/1067 (0.1%)
58	uS17	0.47	0/1169	0.68	0/1576
59	eS12	0.32	0/898	0.69	0/1220
60	uS15	0.45	0/1215	0.70	0/1638
61	uS11	0.44	0/901	0.80	1/1217 (0.1%)
62	uS19	0.41	0/943	0.69	2/1266 (0.2%)
63	uS9	0.39	0/1081	0.66	0/1449
64	eS17	0.37	0/971	0.69	0/1303
65	uS13	0.37	0/1211	0.64	0/1628
66	eS19	0.41	0/1130	0.62	0/1517
67	uS10	0.35	0/648	0.61	0/869
68	eS21	0.42	0/693	0.72	1/935 (0.1%)
69	uS8	0.47	0/1038	0.69	0/1395
70	uS12	0.56	1/1139 (0.1%)	0.77	1/1518 (0.1%)
71	eS24	0.39	0/1087	0.65	0/1449
72	eS25	0.35	0/571	0.72	0/768
73	eS26	0.53	1/782 (0.1%)	0.81	0/1047
74	eS27	0.38	0/620	0.65	0/838
75	eS28	0.38	0/480	0.73	0/645

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
76	uS14	0.43	0/429	0.69	0/569
77	eS30	0.43	0/456	0.72	0/607
78	RACK	0.35	0/2489	0.66	1/3389 (0.0%)
79	eS31	0.35	0/508	0.67	0/677
80	eEF2	0.46	0/6685	0.68	2/9050 (0.0%)
81	PSIT	0.55	1/1836 (0.1%)	1.08	7/2859 (0.2%)
82	mRNA	0.65	0/72	1.22	0/110
83	uL11	0.36	0/668	0.53	0/921
All	All	0.64	26/222527 (0.0%)	1.13	1151/326103 (0.4%)

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
5	uL2	0	1
6	uL3	0	2
7	uL4	0	1
8	uL18	0	1
14	uL5	0	1
16	eL14	0	1
18	uL13	0	2
19	uL22	0	1
20	eL18	0	1
22	eL20	0	2
23	eL21	0	1
35	eL33	0	1
36	eL34	0	1
40	eL38	0	1
44	eL42	0	1
47	uS2	0	1
50	uS3	0	2
51	eS4	0	1
52	uS7	0	3
53	eS6	0	4
54	eS7	0	1
55	eS8	0	1
57	eS10	0	1
59	eS12	0	3
60	uS15	0	2
61	uS11	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
62	uS19	0	1
63	uS9	0	3
65	uS13	0	1
69	uS8	0	1
71	eS24	0	2
72	eS25	0	2
74	eS27	0	1
78	RACK	0	1
80	eEF2	0	1
83	uL11	0	1
All	All	0	53

All (26) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AB	1	G	O3'-P	-28.02	1.27	1.61
81	PSIT	1	C	OP3-P	-9.82	1.49	1.61
73	eS26	26	CYS	CB-SG	-6.91	1.70	1.82
1	25S	647	A	N9-C4	-6.78	1.33	1.37
1	25S	1308	A	N9-C4	-6.73	1.33	1.37
6	uL3	7	GLU	CG-CD	6.09	1.61	1.51
46	18S	779	U	C1'-N1	6.03	1.57	1.48
1	25S	2278	C	N1-C6	5.99	1.40	1.37
1	25S	922	U	C2-N3	-5.96	1.33	1.37
1	25S	2872	A	N9-C4	-5.83	1.34	1.37
1	25S	2941	A	N3-C4	-5.66	1.31	1.34
46	18S	1775	U	C2-N3	-5.64	1.33	1.37
1	25S	2648	G	N9-C8	-5.57	1.33	1.37
1	25S	2325	G	N9-C8	-5.44	1.34	1.37
1	25S	2643	A	N9-C4	-5.43	1.34	1.37
1	25S	3362	A	N9-C4	-5.40	1.34	1.37
1	25S	2145	A	C6-N1	-5.32	1.31	1.35
53	eS6	83	CYS	CB-SG	5.30	1.91	1.82
1	25S	866	A	N9-C4	-5.26	1.34	1.37
46	18S	1291	G	N3-C4	-5.21	1.31	1.35
1	25S	1902	G	C5-C4	-5.17	1.34	1.38
70	uS12	60	GLU	CG-CD	5.13	1.59	1.51
1	25S	922	U	N3-C4	-5.05	1.33	1.38
46	18S	1773	C	C4-N4	5.05	1.38	1.33
46	18S	992	A	N9-C4	-5.04	1.34	1.37
1	25S	2819	A	N9-C4	-5.04	1.34	1.37

All (1151) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	890	C	O5'-P-OP2	-17.30	89.93	110.70
1	25S	2871	G	O5'-P-OP2	-12.65	94.31	105.70
1	25S	2617	U	C5-C4-O4	12.52	133.41	125.90
46	18S	1773	C	N1-C2-O2	-12.42	111.45	118.90
1	25S	2688	U	O5'-P-OP1	-11.69	95.18	105.70
1	25S	1897	G	N3-C2-N2	-11.60	111.78	119.90
46	18S	1773	C	N3-C4-C5	-11.51	117.30	121.90
46	18S	94	U	C2-N3-C4	11.37	133.82	127.00
1	25S	2393	G	N1-C6-O6	11.17	126.60	119.90
1	25S	2246	G	O5'-P-OP2	-10.64	96.12	105.70
1	25S	2308	C	O5'-P-OP2	-10.50	96.25	105.70
1	25S	1874	A	O5'-P-OP1	-10.42	96.32	105.70
46	18S	992	A	C2-N3-C4	-10.41	105.39	110.60
1	25S	1924	U	C5-C4-O4	-10.36	119.68	125.90
46	18S	543	C	C6-N1-C2	-10.36	116.15	120.30
1	25S	922	U	C5-C6-N1	-10.29	117.56	122.70
1	25S	2795	U	O5'-P-OP1	-10.28	96.45	105.70
46	18S	1615	C	C5-C6-N1	10.22	126.11	121.00
1	25S	861	C	O5'-P-OP1	-10.02	96.68	105.70
1	25S	2827	U	C5-C4-O4	9.95	131.87	125.90
1	25S	1897	G	N1-C6-O6	9.89	125.83	119.90
46	18S	1012	U	C5-C4-O4	9.81	131.78	125.90
1	25S	2943	G	O5'-P-OP2	-9.50	97.15	105.70
46	18S	1291	G	N3-C4-N9	-9.35	120.39	126.00
1	25S	1478	C	C6-N1-C2	9.26	124.00	120.30
1	25S	1907	C	C6-N1-C2	9.19	123.97	120.30
1	25S	1806	A	O5'-P-OP1	-9.12	97.49	105.70
1	25S	2714	G	N3-C4-C5	9.04	133.12	128.60
1	25S	2287	C	O5'-P-OP2	-9.04	97.57	105.70
1	25S	834	U	O5'-P-OP2	-9.02	97.58	105.70
46	18S	1773	C	N3-C4-N4	9.01	124.31	118.00
1	25S	2317	A	O5'-P-OP2	-9.01	97.59	105.70
1	25S	2315	G	O5'-P-OP1	-9.00	97.60	105.70
1	25S	3057	U	C5-C4-O4	8.97	131.28	125.90
1	25S	1103	A	O4'-C1'-N9	8.95	115.36	108.20
1	25S	2117	A	C8-N9-C4	8.92	109.37	105.80
1	25S	406	G	O4'-C1'-N9	8.91	115.33	108.20
1	25S	2146	C	O5'-P-OP1	-8.80	97.78	105.70
1	25S	2726	C	N3-C2-O2	-8.80	115.74	121.90
1	25S	3362	A	C2-N3-C4	-8.77	106.22	110.60
46	18S	1291	G	C2-N3-C4	-8.74	107.53	111.90
1	25S	909	G	C8-N9-C4	8.72	109.89	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	2403	G	O5'-P-OP2	-8.71	97.86	105.70
1	25S	2915	U	N3-C2-O2	8.66	128.26	122.20
1	25S	922	U	N3-C4-O4	-8.54	113.42	119.40
1	25S	3092	C	N1-C2-O2	-8.54	113.78	118.90
1	25S	1741	A	N1-C2-N3	8.53	133.56	129.30
1	25S	2311	G	N1-C6-O6	8.48	124.99	119.90
1	25S	2278	C	C4-C5-C6	-8.48	113.16	117.40
1	25S	2136	C	N1-C2-O2	8.46	123.98	118.90
1	25S	922	U	N3-C2-O2	-8.46	116.28	122.20
1	25S	2639	G	C5-C6-O6	-8.42	123.55	128.60
1	25S	2393	G	C5-C6-O6	-8.40	123.56	128.60
1	25S	2417	U	C5-C4-O4	-8.40	120.86	125.90
1	25S	2872	A	C2-N3-C4	-8.39	106.41	110.60
1	25S	2983	C	C5-C4-N4	8.38	126.07	120.20
1	25S	876	A	O5'-P-OP2	-8.28	98.25	105.70
1	25S	1924	U	N3-C4-O4	8.22	125.16	119.40
46	18S	1324	G	N3-C2-N2	-8.20	114.16	119.90
1	25S	355	A	C8-N9-C4	8.19	109.08	105.80
1	25S	1888	U	O5'-P-OP1	8.17	120.51	110.70
1	25S	2944	U	N1-C2-O2	8.17	128.52	122.80
1	25S	2617	U	C4-C5-C6	8.13	124.58	119.70
46	18S	402	C	C6-N1-C2	8.09	123.54	120.30
1	25S	922	U	C5-C4-O4	8.09	130.75	125.90
1	25S	1495	U	C5-C4-O4	8.08	130.75	125.90
46	18S	992	A	N1-C6-N6	8.06	123.44	118.60
1	25S	2827	U	N3-C4-O4	-8.06	113.76	119.40
1	25S	804	C	N1-C2-O2	-8.05	114.07	118.90
46	18S	989	U	N1-C2-O2	8.05	128.44	122.80
46	18S	77	U	C2-N1-C1'	8.04	127.35	117.70
1	25S	2827	U	C5-C6-N1	-8.03	118.69	122.70
1	25S	1926	C	O5'-P-OP2	-8.02	98.48	105.70
1	25S	2873	U	C2-N3-C4	-7.99	122.21	127.00
1	25S	804	C	N3-C2-O2	7.98	127.48	121.90
1	25S	1889	G	O5'-P-OP2	-7.97	98.53	105.70
1	25S	2393	G	C6-C5-N7	-7.96	125.62	130.40
46	18S	1324	G	N3-C4-N9	-7.96	121.22	126.00
1	25S	2965	U	C5-C6-N1	-7.96	118.72	122.70
1	25S	835	G	N1-C6-O6	7.95	124.67	119.90
1	25S	2320	A	C8-N9-C4	7.93	108.97	105.80
1	25S	3092	C	O4'-C1'-N1	7.91	114.53	108.20
1	25S	2967	A	C8-N9-C4	7.89	108.96	105.80
1	25S	2257	C	C2-N1-C1'	7.87	127.46	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	18S	453	U	N1-C2-O2	7.87	128.31	122.80
46	18S	1291	G	C5-N7-C8	-7.86	100.37	104.30
1	25S	917	A	O5'-P-OP2	-7.85	98.64	105.70
1	25S	2869	U	O5'-P-OP1	-7.83	98.65	105.70
46	18S	1782	A	C5-C6-N1	-7.83	113.79	117.70
46	18S	140	A	N1-C6-N6	7.82	123.30	118.60
46	18S	992	A	C5-N7-C8	-7.80	100.00	103.90
1	25S	2915	U	N1-C2-O2	-7.78	117.36	122.80
1	25S	873	C	O5'-P-OP2	-7.78	98.70	105.70
1	25S	2162	U	O5'-P-OP2	-7.73	98.75	105.70
1	25S	2815	G	C5-C6-O6	-7.72	123.97	128.60
46	18S	1600	A	C2-N3-C4	-7.70	106.75	110.60
1	25S	2338	C	O5'-P-OP1	-7.69	98.78	105.70
1	25S	2279	A	C5-C6-N6	-7.69	117.55	123.70
7	uL4	318	LEU	CA-CB-CG	7.68	132.96	115.30
1	25S	3139	A	O5'-P-OP1	-7.60	98.86	105.70
1	25S	1495	U	C5-C6-N1	-7.60	118.90	122.70
1	25S	835	G	O4'-C1'-N9	7.59	114.27	108.20
1	25S	1189	C	C6-N1-C2	7.59	123.33	120.30
18	uL13	84	LEU	CB-CG-CD1	-7.57	98.13	111.00
1	25S	835	G	C5-C6-O6	-7.57	124.06	128.60
1	25S	3382	U	C2-N1-C1'	7.55	126.76	117.70
46	18S	1291	G	N7-C8-N9	7.53	116.87	113.10
1	25S	909	G	N9-C4-C5	-7.52	102.39	105.40
1	25S	1698	C	C6-N1-C2	-7.51	117.30	120.30
46	18S	1291	G	C8-N9-C4	-7.50	103.40	106.40
1	25S	2279	A	N1-C6-N6	7.50	123.10	118.60
1	25S	3067	C	C6-N1-C2	7.50	123.30	120.30
1	25S	2279	A	N9-C4-C5	-7.47	102.81	105.80
1	25S	2550	U	N3-C2-O2	-7.47	116.97	122.20
1	25S	2663	G	C5-C6-O6	-7.47	124.12	128.60
1	25S	1905	G	C8-N9-C4	7.45	109.38	106.40
1	25S	2714	G	C5-N7-C8	-7.45	100.58	104.30
46	18S	1535	U	C5-C6-N1	-7.44	118.98	122.70
1	25S	1495	U	N1-C2-N3	7.43	119.36	114.90
1	25S	2417	U	N3-C2-O2	7.43	127.40	122.20
1	25S	2550	U	C5-C4-O4	7.43	130.36	125.90
1	25S	1897	G	C5-C6-O6	-7.43	124.14	128.60
1	25S	3362	A	O4'-C1'-N9	7.43	114.14	108.20
2	AB	1	G	P-O3'-C3'	7.42	128.61	119.70
80	eEF2	536	LEU	CA-CB-CG	7.42	132.37	115.30
1	25S	1741	A	C8-N9-C4	-7.41	102.83	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	2965	U	C2-N3-C4	-7.41	122.55	127.00
2	AB	95	A	C8-N9-C4	7.41	108.76	105.80
61	uS11	90	ARG	C-N-CA	-7.40	103.19	121.70
1	25S	2873	U	N3-C2-O2	-7.40	117.02	122.20
46	18S	1476	C	C6-N1-C2	-7.40	117.34	120.30
1	25S	3140	G	N3-C4-N9	7.38	130.43	126.00
1	25S	2619	G	N3-C2-N2	-7.37	114.74	119.90
46	18S	1762	A	O5'-P-OP1	-7.36	99.08	105.70
1	25S	545	U	C2-N1-C1'	7.36	126.53	117.70
1	25S	2617	U	N3-C2-O2	-7.35	117.06	122.20
1	25S	834	U	C5-C4-O4	7.35	130.31	125.90
1	25S	2870	C	C6-N1-C1'	7.35	129.62	120.80
46	18S	1476	C	C5-C6-N1	7.34	124.67	121.00
1	25S	1907	C	C5-C6-N1	-7.34	117.33	121.00
1	25S	2245	C	O5'-P-OP1	-7.33	99.11	105.70
1	25S	2364	G	O5'-P-OP1	-7.33	99.11	105.70
46	18S	1026	A	C8-N9-C4	7.31	108.73	105.80
1	25S	2899	C	N3-C2-O2	-7.31	116.78	121.90
1	25S	2123	G	C8-N9-C4	7.31	109.32	106.40
1	25S	2983	C	N1-C2-N3	7.31	124.31	119.20
1	25S	2714	G	N3-C4-N9	-7.30	121.62	126.00
1	25S	998	A	N1-C6-N6	-7.29	114.22	118.60
1	25S	2836	C	C5-C4-N4	7.29	125.31	120.20
1	25S	2663	G	C4-C5-N7	7.28	113.71	110.80
1	25S	678	G	O5'-P-OP1	-7.27	99.16	105.70
46	18S	1762	A	OP1-P-OP2	7.26	130.50	119.60
1	25S	2379	U	O5'-P-OP2	-7.25	99.18	105.70
1	25S	3206	C	N3-C2-O2	-7.25	116.83	121.90
1	25S	637	C	C5-C6-N1	-7.24	117.38	121.00
1	25S	345	G	N1-C6-O6	7.23	124.24	119.90
1	25S	1495	U	C4-C5-C6	7.23	124.04	119.70
1	25S	1852	G	C8-N9-C4	7.22	109.29	106.40
46	18S	1291	G	N3-C4-C5	7.22	132.21	128.60
46	18S	1537	C	N1-C2-O2	7.22	123.23	118.90
1	25S	2899	C	N1-C2-N3	7.22	124.25	119.20
1	25S	1496	C	C2-N1-C1'	7.21	126.73	118.80
1	25S	2938	G	O5'-P-OP2	-7.20	99.22	105.70
1	25S	1199	C	O5'-P-OP1	-7.19	99.23	105.70
1	25S	2118	C	N3-C2-O2	7.19	126.93	121.90
1	25S	3140	G	C8-N9-C1'	-7.18	117.67	127.00
1	25S	1904	C	C5-C6-N1	-7.18	117.41	121.00
1	25S	857	G	N1-C6-O6	7.15	124.19	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	2621	G	O5'-P-OP2	-7.15	99.26	105.70
1	25S	2899	C	C4-C5-C6	7.13	120.97	117.40
1	25S	1864	A	C8-N9-C4	7.13	108.65	105.80
46	18S	364	G	O5'-P-OP2	-7.13	99.28	105.70
1	25S	925	A	O5'-P-OP1	-7.13	99.29	105.70
46	18S	992	A	C4-C5-N7	7.13	114.26	110.70
46	18S	1622	G	N1-C6-O6	7.12	124.17	119.90
46	18S	1096	C	C6-N1-C2	7.12	123.15	120.30
1	25S	2610	G	N1-C6-O6	-7.12	115.63	119.90
1	25S	2872	A	N3-C4-C5	7.10	131.77	126.80
1	25S	1867	A	O5'-P-OP2	-7.09	99.32	105.70
1	25S	3173	G	C5-C6-O6	-7.09	124.35	128.60
1	25S	1864	A	N9-C4-C5	-7.09	102.97	105.80
1	25S	2331	C	O5'-P-OP2	-7.09	99.32	105.70
1	25S	3056	U	O5'-P-OP1	-7.08	99.33	105.70
46	18S	901	G	C4-N9-C1'	7.07	135.69	126.50
46	18S	1535	U	C2-N1-C1'	-7.06	109.22	117.70
1	25S	708	G	N1-C6-O6	7.06	124.14	119.90
46	18S	43	A	C8-N9-C4	7.06	108.62	105.80
1	25S	2287	C	C6-N1-C2	7.06	123.12	120.30
46	18S	1757	G	N3-C4-N9	7.06	130.23	126.00
46	18S	543	C	C5-C6-N1	7.05	124.53	121.00
1	25S	673	U	N3-C2-O2	-7.05	117.27	122.20
46	18S	1012	U	N3-C4-O4	-7.04	114.47	119.40
1	25S	928	C	C6-N1-C2	7.03	123.11	120.30
1	25S	1460	A	O5'-P-OP2	-7.02	99.38	105.70
1	25S	2846	U	C2-N1-C1'	7.00	126.11	117.70
1	25S	2619	G	N1-C6-O6	7.00	124.10	119.90
1	25S	2605	G	C5-C6-O6	-7.00	124.40	128.60
1	25S	2129	U	N3-C2-O2	-6.99	117.30	122.20
1	25S	2827	U	C2-N1-C1'	-6.99	109.31	117.70
1	25S	857	G	C8-N9-C4	6.98	109.19	106.40
1	25S	1477	A	N1-C6-N6	-6.97	114.42	118.60
1	25S	1899	G	O5'-P-OP2	-6.96	99.44	105.70
1	25S	2620	G	C2-N3-C4	-6.95	108.42	111.90
1	25S	655	C	N1-C2-O2	6.95	123.07	118.90
1	25S	1209	G	O5'-P-OP2	-6.94	99.45	105.70
1	25S	1918	C	C6-N1-C2	6.94	123.08	120.30
2	AB	1	G	OP2-P-O3'	-6.93	89.94	105.20
1	25S	776	U	N1-C2-N3	6.93	119.06	114.90
81	PSIT	49	C	C2-N1-C1'	6.92	126.41	118.80
46	18S	1629	G	N3-C2-N2	-6.92	115.06	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	2378	C	N1-C2-O2	6.91	123.05	118.90
1	25S	2807	U	OP2-P-O3'	6.91	120.39	105.20
1	25S	2136	C	C6-N1-C2	6.90	123.06	120.30
1	25S	2836	C	N3-C4-N4	-6.90	113.17	118.00
1	25S	1437	C	C6-N1-C2	-6.90	117.54	120.30
46	18S	543	C	C2-N1-C1'	6.89	126.38	118.80
1	25S	3088	G	C8-N9-C4	6.88	109.15	106.40
1	25S	857	G	C5-C6-O6	-6.88	124.47	128.60
1	25S	1117	G	O5'-P-OP1	-6.87	99.52	105.70
1	25S	3185	U	C5-C6-N1	-6.86	119.27	122.70
1	25S	2393	G	C4-C5-N7	6.85	113.54	110.80
1	25S	2866	U	O5'-P-OP1	-6.85	99.53	105.70
1	25S	3026	G	N3-C2-N2	-6.83	115.12	119.90
46	18S	1645	G	C4-C5-N7	6.83	113.53	110.80
1	25S	860	G	C2-N3-C4	6.83	115.31	111.90
46	18S	1615	C	C6-N1-C2	-6.82	117.57	120.30
1	25S	2208	A	O4'-C1'-N9	6.82	113.66	108.20
46	18S	331	A	O5'-P-OP2	-6.81	99.57	105.70
46	18S	1585	U	O5'-P-OP2	-6.81	99.57	105.70
1	25S	2188	A	N1-C6-N6	-6.81	114.52	118.60
1	25S	2846	U	O4'-C1'-N1	6.80	113.64	108.20
46	18S	1790	A	N1-C6-N6	6.80	122.68	118.60
1	25S	2966	G	C5-C6-O6	-6.79	124.52	128.60
1	25S	917	A	O5'-P-OP1	6.79	118.84	110.70
1	25S	3095	U	O5'-P-OP2	-6.79	99.59	105.70
46	18S	992	A	C6-C5-N7	-6.78	127.55	132.30
46	18S	1596	C	N3-C2-O2	-6.78	117.15	121.90
2	AB	1	G	OP1-P-O3'	6.78	120.11	105.20
1	25S	924	G	C5-C6-O6	-6.78	124.53	128.60
46	18S	1782	A	N1-C2-N3	6.78	132.69	129.30
1	25S	2873	U	N1-C2-N3	6.76	118.95	114.90
1	25S	2283	G	C8-N9-C4	6.75	109.10	106.40
1	25S	2396	G	N3-C4-N9	6.74	130.05	126.00
1	25S	829	U	N1-C2-O2	6.74	127.52	122.80
1	25S	1493	G	O5'-P-OP1	-6.74	99.64	105.70
1	25S	2417	U	N1-C2-O2	-6.74	118.08	122.80
46	18S	743	U	C5-C6-N1	6.73	126.07	122.70
1	25S	2642	A	N9-C4-C5	6.73	108.49	105.80
1	25S	3313	U	O5'-P-OP2	-6.72	99.65	105.70
1	25S	3309	G	C6-C5-N7	-6.72	126.37	130.40
1	25S	959	C	O5'-P-OP2	6.72	118.76	110.70
1	25S	1605	A	O5'-P-OP1	-6.70	99.67	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	3140	G	C6-C5-N7	-6.70	126.38	130.40
46	18S	453	U	N3-C2-O2	-6.69	117.52	122.20
1	25S	1698	C	N1-C2-O2	-6.68	114.89	118.90
1	25S	2984	C	N1-C2-O2	6.68	122.91	118.90
1	25S	1116	G	C8-N9-C4	-6.68	103.73	106.40
1	25S	1496	C	C6-N1-C1'	-6.67	112.79	120.80
1	25S	3382	U	N1-C2-O2	6.67	127.47	122.80
46	18S	94	U	N3-C4-C5	6.67	118.60	114.60
1	25S	1654	A	N1-C6-N6	6.66	122.60	118.60
1	25S	877	C	N3-C4-C5	6.66	124.56	121.90
1	25S	2827	U	N1-C2-N3	6.65	118.89	114.90
1	25S	1900	A	O5'-P-OP1	6.65	118.68	110.70
1	25S	2117	A	N7-C8-N9	-6.65	110.48	113.80
1	25S	2979	U	O5'-P-OP1	-6.65	99.72	105.70
46	18S	992	A	N1-C2-N3	6.64	132.62	129.30
1	25S	361	A	C8-N9-C4	6.64	108.46	105.80
1	25S	2279	A	C4-C5-N7	6.64	114.02	110.70
46	18S	107	C	C6-N1-C2	6.63	122.95	120.30
1	25S	2150	G	O5'-P-OP1	-6.63	99.74	105.70
1	25S	2376	G	N1-C6-O6	6.63	123.88	119.90
1	25S	2816	G	O4'-C1'-N9	6.62	113.50	108.20
1	25S	1156	C	C4-C5-C6	6.62	120.71	117.40
1	25S	2128	C	N3-C2-O2	-6.62	117.27	121.90
1	25S	2625	C	C5-C6-N1	-6.62	117.69	121.00
46	18S	901	G	N7-C8-N9	6.62	116.41	113.10
46	18S	1003	A	C8-N9-C4	6.61	108.44	105.80
46	18S	1535	U	C5-C4-O4	6.60	129.86	125.90
1	25S	1128	U	C5-C6-N1	-6.60	119.40	122.70
1	25S	50	U	O5'-P-OP1	-6.60	99.76	105.70
1	25S	2320	A	N7-C8-N9	-6.60	110.50	113.80
1	25S	2393	G	N9-C4-C5	-6.58	102.77	105.40
46	18S	94	U	N1-C2-N3	6.57	118.84	114.90
1	25S	2144	A	O4'-C1'-N9	6.56	113.45	108.20
1	25S	2615	G	N1-C6-O6	-6.56	115.96	119.90
1	25S	2639	G	C4-C5-N7	6.56	113.42	110.80
1	25S	905	U	N3-C2-O2	-6.55	117.61	122.20
1	25S	884	A	C8-N9-C4	6.55	108.42	105.80
1	25S	2142	A	C6-N1-C2	-6.55	114.67	118.60
1	25S	2489	C	O4'-C1'-N1	6.55	113.44	108.20
2	AB	91	G	C5-C6-O6	-6.55	124.67	128.60
46	18S	1767	G	O5'-P-OP2	-6.55	99.81	105.70
46	18S	901	G	O4'-C1'-N9	6.54	113.43	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	18S	1730	A	N1-C6-N6	6.53	122.52	118.60
46	18S	1604	U	O5'-P-OP1	-6.53	99.82	105.70
1	25S	1905	G	N9-C4-C5	-6.53	102.79	105.40
1	25S	2948	C	C2-N1-C1'	6.53	125.98	118.80
1	25S	1119	C	O5'-P-OP2	6.52	118.53	110.70
1	25S	2663	G	N1-C6-O6	6.52	123.81	119.90
81	PSIT	77	A	C5-C6-N1	-6.52	114.44	117.70
1	25S	3373	U	O5'-P-OP2	-6.51	99.84	105.70
1	25S	960	U	C4-C5-C6	6.50	123.60	119.70
1	25S	1741	A	N7-C8-N9	6.50	117.05	113.80
1	25S	2604	U	N1-C2-O2	6.50	127.35	122.80
1	25S	1885	U	OP1-P-OP2	6.50	129.35	119.60
1	25S	426	G	N1-C6-O6	-6.50	116.00	119.90
2	AB	16	U	N3-C2-O2	6.50	126.75	122.20
1	25S	2983	C	N1-C2-O2	-6.48	115.01	118.90
1	25S	3140	G	N9-C4-C5	-6.48	102.81	105.40
1	25S	3328	G	C8-N9-C4	6.48	108.99	106.40
7	uL4	22	LEU	CA-CB-CG	6.47	130.19	115.30
1	25S	2375	G	O5'-P-OP1	-6.47	99.88	105.70
1	25S	2983	C	C5-C6-N1	-6.46	117.77	121.00
1	25S	3332	U	C5-C4-O4	-6.46	122.03	125.90
46	18S	434	G	N3-C4-N9	-6.46	122.12	126.00
27	uL23	34	LEU	CA-CB-CG	6.46	130.15	115.30
1	25S	2398	A	C8-N9-C4	6.46	108.38	105.80
1	25S	1862	U	O5'-P-OP1	-6.45	99.89	105.70
46	18S	1639	C	C6-N1-C2	6.45	122.88	120.30
1	25S	1851	G	O5'-P-OP2	-6.45	99.90	105.70
1	25S	2839	G	C5-C6-O6	6.44	132.46	128.60
1	25S	942	U	N3-C4-O4	6.43	123.90	119.40
46	18S	1773	C	C4-C5-C6	6.43	120.61	117.40
1	25S	2366	C	N3-C4-N4	6.42	122.50	118.00
1	25S	645	A	N1-C2-N3	6.42	132.51	129.30
1	25S	2960	C	C5-C6-N1	-6.42	117.79	121.00
1	25S	3366	G	O5'-P-OP2	-6.41	99.93	105.70
46	18S	1080	U	C6-N1-C2	-6.41	117.16	121.00
1	25S	2639	G	N1-C6-O6	6.41	123.74	119.90
46	18S	322	G	O4'-C1'-N9	-6.41	103.08	108.20
1	25S	1865	A	O5'-P-OP1	-6.40	99.94	105.70
1	25S	2142	A	C2-N3-C4	6.40	113.80	110.60
2	AB	117	A	C8-N9-C4	6.40	108.36	105.80
46	18S	1324	G	N3-C4-C5	6.40	131.80	128.60
1	25S	2967	A	N9-C4-C5	-6.39	103.24	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	18S	1324	G	N1-C2-N2	6.39	121.95	116.20
1	25S	32	U	O5'-P-OP2	-6.39	99.95	105.70
46	18S	1601	G	O5'-P-OP1	-6.38	99.95	105.70
1	25S	1897	G	N1-C2-N3	6.37	127.72	123.90
34	eL32	85	LEU	CA-CB-CG	6.37	129.96	115.30
1	25S	246	U	C5-C6-N1	6.37	125.88	122.70
1	25S	1307	G	O4'-C1'-N9	6.37	113.29	108.20
46	18S	772	G	O5'-P-OP1	-6.36	99.97	105.70
1	25S	1887	A	N1-C6-N6	6.36	122.42	118.60
1	25S	2617	U	C5-C6-N1	-6.36	119.52	122.70
46	18S	307	G	OP2-P-O3'	6.36	119.19	105.20
1	25S	3129	A	N1-C2-N3	-6.36	126.12	129.30
1	25S	2952	G	O5'-P-OP2	6.35	118.32	110.70
1	25S	2147	A	N1-C6-N6	6.34	122.41	118.60
46	18S	942	G	O5'-P-OP2	6.34	118.31	110.70
1	25S	648	C	O5'-P-OP1	-6.34	99.99	105.70
46	18S	77	U	C5-C6-N1	6.34	125.87	122.70
1	25S	2866	U	OP1-P-O3'	6.34	119.15	105.20
46	18S	1190	C	C6-N1-C2	6.34	122.83	120.30
1	25S	41	G	N9-C4-C5	-6.34	102.87	105.40
1	25S	1478	C	C5-C6-N1	-6.34	117.83	121.00
1	25S	890	C	C5-C6-N1	-6.33	117.83	121.00
1	25S	2118	C	N1-C2-O2	-6.33	115.10	118.90
46	18S	47	A	O5'-P-OP1	-6.33	100.00	105.70
1	25S	1852	G	N7-C8-N9	-6.32	109.94	113.10
1	25S	2836	C	N3-C2-O2	-6.32	117.47	121.90
1	25S	1800	A	N1-C6-N6	6.32	122.39	118.60
1	25S	2366	C	C5-C6-N1	6.31	124.16	121.00
1	25S	846	A	C8-N9-C4	6.31	108.33	105.80
1	25S	957	C	N3-C4-C5	6.31	124.42	121.90
1	25S	1897	G	C2-N3-C4	-6.29	108.75	111.90
1	25S	2663	G	N9-C4-C5	-6.29	102.89	105.40
1	25S	2899	C	O5'-P-OP2	-6.29	100.04	105.70
1	25S	1924	U	N3-C2-O2	6.28	126.60	122.20
1	25S	2350	C	N3-C2-O2	-6.28	117.50	121.90
81	PSIT	77	A	N1-C2-N3	6.28	132.44	129.30
1	25S	3116	G	O5'-P-OP2	-6.28	100.05	105.70
46	18S	434	G	N1-C6-O6	-6.27	116.14	119.90
1	25S	2941	A	O4'-C1'-N9	-6.27	103.18	108.20
1	25S	2401	A	O5'-P-OP2	-6.27	100.06	105.70
1	25S	1052	U	N1-C2-O2	6.27	127.19	122.80
13	uL16	48	LEU	CA-CB-CG	6.26	129.71	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	2243	A	N1-C2-N3	-6.26	126.17	129.30
1	25S	3206	C	C6-N1-C2	-6.26	117.80	120.30
1	25S	1893	A	O5'-P-OP2	-6.26	100.07	105.70
1	25S	1373	A	O5'-P-OP2	-6.25	100.07	105.70
1	25S	2311	G	C8-N9-C4	6.25	108.90	106.40
1	25S	1380	G	C8-N9-C4	6.24	108.90	106.40
46	18S	434	G	C5-C6-O6	6.23	132.34	128.60
1	25S	2714	G	C4-C5-N7	6.23	113.29	110.80
46	18S	1782	A	C5-C6-N6	6.23	128.68	123.70
46	18S	1389	C	C2-N1-C1'	6.21	125.64	118.80
46	18S	453	U	C2-N1-C1'	6.21	125.15	117.70
1	25S	1851	G	N9-C4-C5	-6.21	102.92	105.40
1	25S	776	U	N3-C2-O2	-6.20	117.86	122.20
1	25S	1151	U	N1-C2-O2	-6.20	118.46	122.80
1	25S	1481	A	N1-C6-N6	6.20	122.32	118.60
1	25S	2619	G	C5-C6-O6	-6.19	124.89	128.60
1	25S	1654	A	N9-C4-C5	-6.19	103.33	105.80
1	25S	1728	G	OP2-P-O3'	6.19	118.81	105.20
46	18S	1165	G	N3-C4-C5	-6.19	125.51	128.60
46	18S	423	G	C8-N9-C4	6.19	108.87	106.40
1	25S	1199	C	N3-C4-N4	6.18	122.33	118.00
1	25S	2616	C	C4-C5-C6	6.18	120.49	117.40
46	18S	381	C	C6-N1-C2	-6.17	117.83	120.30
46	18S	1481	C	C6-N1-C2	-6.17	117.83	120.30
1	25S	2396	G	N3-C2-N2	6.17	124.22	119.90
1	25S	3043	C	C6-N1-C2	6.17	122.77	120.30
1	25S	969	C	C6-N1-C2	-6.16	117.83	120.30
46	18S	1773	C	N3-C2-O2	6.16	126.21	121.90
1	25S	2123	G	C5-N7-C8	6.16	107.38	104.30
1	25S	2617	U	N3-C4-C5	-6.16	110.91	114.60
1	25S	915	A	N1-C6-N6	-6.15	114.91	118.60
1	25S	2978	U	C2-N3-C4	-6.15	123.31	127.00
46	18S	401	A	C8-N9-C4	6.15	108.26	105.80
1	25S	861	C	C2-N3-C4	-6.15	116.83	119.90
1	25S	2351	U	N1-C2-O2	6.15	127.10	122.80
49	uS5	113	LEU	CA-CB-CG	6.15	129.44	115.30
1	25S	3042	U	O5'-P-OP2	-6.14	100.17	105.70
1	25S	591	G	N1-C6-O6	6.14	123.58	119.90
46	18S	1790	A	C5-C6-N6	-6.14	118.79	123.70
1	25S	2948	C	N1-C2-O2	6.14	122.58	118.90
46	18S	1132	A	C8-N9-C4	6.14	108.25	105.80
46	18S	971	A	N1-C6-N6	-6.13	114.92	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	2645	G	N9-C4-C5	-6.13	102.95	105.40
46	18S	989	U	N3-C2-O2	-6.13	117.91	122.20
1	25S	2293	C	C6-N1-C2	6.12	122.75	120.30
1	25S	2286	U	N3-C2-O2	-6.11	117.92	122.20
1	25S	2272	G	C8-N9-C4	6.11	108.84	106.40
1	25S	2983	C	O5'-P-OP1	-6.11	100.20	105.70
1	25S	2315	G	N1-C6-O6	-6.11	116.23	119.90
1	25S	2815	G	N1-C6-O6	6.11	123.56	119.90
1	25S	1308	A	O5'-P-OP1	-6.10	100.21	105.70
1	25S	2393	G	C2-N3-C4	-6.10	108.85	111.90
1	25S	2176	U	N3-C2-O2	-6.10	117.93	122.20
2	AB	6	C	C2-N3-C4	-6.09	116.85	119.90
46	18S	1465	C	O5'-P-OP2	6.09	118.01	110.70
1	25S	909	G	C5-C6-O6	-6.09	124.94	128.60
46	18S	1595	U	O4'-C1'-N1	6.09	113.07	108.20
1	25S	1303	A	N1-C6-N6	6.08	122.25	118.60
1	25S	3140	G	O5'-P-OP2	-6.08	100.22	105.70
1	25S	224	C	C6-N1-C2	-6.08	117.87	120.30
1	25S	2983	C	O4'-C1'-N1	6.08	113.06	108.20
1	25S	1440	G	N1-C6-O6	-6.08	116.25	119.90
1	25S	2872	A	N3-C4-N9	-6.08	122.54	127.40
46	18S	1600	A	N1-C2-N3	6.08	132.34	129.30
1	25S	1741	A	C4-C5-C6	6.07	120.04	117.00
1	25S	2869	U	N3-C4-O4	6.07	123.65	119.40
1	25S	1450	G	N3-C2-N2	-6.07	115.65	119.90
1	25S	3309	G	C4-N9-C1'	6.07	134.39	126.50
1	25S	637	C	C6-N1-C2	6.06	122.72	120.30
1	25S	2239	G	N3-C4-C5	6.06	131.63	128.60
1	25S	2315	G	C8-N9-C4	6.06	108.82	106.40
1	25S	3386	G	O5'-P-OP2	-6.06	100.25	105.70
1	25S	3057	U	N1-C2-N3	6.06	118.53	114.90
1	25S	2274	U	C5-C6-N1	-6.05	119.67	122.70
1	25S	2870	C	C2-N1-C1'	-6.05	112.14	118.80
1	25S	2610	G	C5-C6-O6	6.05	132.23	128.60
1	25S	1057	A	C8-N9-C4	6.05	108.22	105.80
1	25S	2300	G	N1-C2-N3	6.05	127.53	123.90
1	25S	1789	G	C8-N9-C4	6.04	108.82	106.40
46	18S	1611	A	N1-C2-N3	6.04	132.32	129.30
46	18S	459	G	C5-C6-O6	-6.02	124.99	128.60
1	25S	3113	A	N1-C6-N6	-6.01	114.99	118.60
46	18S	1773	C	C6-N1-C2	-6.01	117.90	120.30
46	18S	1761	U	C5-C4-O4	6.01	129.50	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	2118	C	C6-N1-C2	6.00	122.70	120.30
1	25S	111	C	N1-C2-O2	6.00	122.50	118.90
46	18S	575	C	C6-N1-C2	6.00	122.70	120.30
1	25S	2887	A	O5'-P-OP2	-6.00	100.30	105.70
1	25S	2430	A	C6-N1-C2	-5.99	115.00	118.60
1	25S	2634	U	C5-C4-O4	-5.99	122.30	125.90
1	25S	283	G	C6-C5-N7	-5.99	126.81	130.40
1	25S	1898	G	C4-C5-N7	-5.99	108.41	110.80
46	18S	34	G	N1-C6-O6	5.98	123.49	119.90
1	25S	355	A	N9-C4-C5	-5.98	103.41	105.80
1	25S	2257	C	O4'-C1'-N1	5.98	112.99	108.20
46	18S	396	G	N9-C4-C5	-5.98	103.01	105.40
1	25S	2839	G	N1-C6-O6	-5.97	116.31	119.90
1	25S	3309	G	N3-C4-C5	-5.97	125.61	128.60
1	25S	1158	A	O5'-P-OP2	-5.97	100.33	105.70
1	25S	2355	G	C8-N9-C4	5.97	108.79	106.40
1	25S	2278	C	N3-C4-N4	-5.96	113.83	118.00
1	25S	2734	A	C8-N9-C4	5.96	108.18	105.80
46	18S	1291	G	N1-C2-N3	5.96	127.47	123.90
1	25S	1875	G	C8-N9-C4	5.95	108.78	106.40
46	18S	434	G	C6-C5-N7	5.95	133.97	130.40
1	25S	1438	U	O5'-P-OP2	-5.95	100.34	105.70
1	25S	2983	C	N3-C4-N4	-5.95	113.83	118.00
2	AB	49	G	C8-N9-C4	5.95	108.78	106.40
1	25S	3140	G	C4-N9-C1'	5.94	134.23	126.50
57	eS10	88	PRO	N-CA-CB	5.94	110.43	103.30
1	25S	1311	G	OP1-P-OP2	-5.94	110.69	119.60
1	25S	1589	A	C5-C6-N6	-5.94	118.95	123.70
1	25S	2884	C	C5-C4-N4	-5.93	116.05	120.20
1	25S	3095	U	O5'-P-OP1	5.93	117.82	110.70
1	25S	834	U	N3-C4-O4	-5.93	115.25	119.40
1	25S	2963	C	OP2-P-O3'	5.92	118.22	105.20
1	25S	46	U	N1-C2-N3	-5.92	111.35	114.90
1	25S	655	C	N3-C2-O2	-5.92	117.76	121.90
46	18S	543	C	N3-C2-O2	-5.92	117.76	121.90
1	25S	2617	U	N1-C2-N3	5.91	118.45	114.90
1	25S	708	G	C5-C6-O6	-5.91	125.05	128.60
1	25S	2238	G	C5-C6-O6	-5.91	125.06	128.60
46	18S	109	G	N3-C4-C5	5.91	131.55	128.60
1	25S	837	A	C5-N7-C8	-5.91	100.95	103.90
46	18S	1779	U	N1-C2-O2	5.91	126.94	122.80
2	AB	95	A	N7-C8-N9	-5.91	110.85	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	1897	G	C6-C5-N7	-5.90	126.86	130.40
46	18S	1389	C	N1-C2-O2	5.90	122.44	118.90
1	25S	2287	C	C5-C4-N4	-5.90	116.07	120.20
1	25S	2899	C	C2-N3-C4	-5.90	116.95	119.90
1	25S	963	G	C8-N9-C4	5.90	108.76	106.40
1	25S	2953	U	C6-N1-C2	5.90	124.54	121.00
1	25S	1901	A	C5-C6-N1	5.89	120.65	117.70
1	25S	2827	U	C6-N1-C1'	5.89	129.45	121.20
2	AB	92	A	N1-C6-N6	5.89	122.14	118.60
1	25S	283	G	C5-C6-O6	-5.89	125.07	128.60
1	25S	1741	A	C2-N3-C4	-5.89	107.66	110.60
1	25S	2941	A	N1-C6-N6	-5.89	115.07	118.60
1	25S	2403	G	O5'-P-OP1	5.89	117.76	110.70
1	25S	2700	G	N1-C6-O6	5.89	123.43	119.90
1	25S	2846	U	N1-C2-N3	5.88	118.43	114.90
1	25S	2354	C	C6-N1-C2	5.88	122.65	120.30
1	25S	2361	A	OP2-P-O3'	5.87	118.12	105.20
2	AB	91	G	C6-C5-N7	-5.87	126.88	130.40
1	25S	2257	C	N3-C2-O2	-5.87	117.79	121.90
1	25S	1912	U	C2-N3-C4	-5.87	123.48	127.00
46	18S	1654	G	C4-C5-N7	5.87	113.15	110.80
1	25S	843	A	N1-C6-N6	5.86	122.12	118.60
1	25S	3149	G	N1-C6-O6	-5.86	116.38	119.90
1	25S	2950	G	O4'-C1'-N9	5.86	112.89	108.20
1	25S	2156	C	C6-N1-C2	5.86	122.64	120.30
1	25S	2976	A	C5-C6-N6	-5.86	119.02	123.70
46	18S	1658	G	C4-C5-N7	5.86	113.14	110.80
1	25S	2952	G	O5'-P-OP1	-5.85	100.43	105.70
46	18S	382	C	OP1-P-O3'	5.85	118.07	105.20
1	25S	2198	A	C8-N9-C4	5.85	108.14	105.80
1	25S	3131	U	C2-N1-C1'	5.84	124.71	117.70
1	25S	55	G	N3-C4-C5	5.84	131.52	128.60
46	18S	1188	G	C5-C6-O6	-5.83	125.10	128.60
1	25S	885	U	N3-C2-O2	-5.83	118.12	122.20
1	25S	2287	C	N3-C2-O2	5.83	125.98	121.90
1	25S	633	C	N3-C4-N4	-5.82	113.92	118.00
46	18S	402	C	C5-C6-N1	-5.82	118.09	121.00
1	25S	2604	U	N3-C2-O2	-5.82	118.12	122.20
1	25S	2700	G	C5-C6-O6	-5.82	125.11	128.60
1	25S	2947	G	C2-N3-C4	5.82	114.81	111.90
1	25S	1654	A	C2-N3-C4	-5.82	107.69	110.60
1	25S	1888	U	O5'-P-OP2	-5.82	100.47	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	2858	U	N3-C2-O2	-5.82	118.13	122.20
46	18S	323	A	C8-N9-C4	-5.82	103.47	105.80
1	25S	860	G	N3-C4-C5	-5.81	125.69	128.60
46	18S	901	G	C6-C5-N7	-5.81	126.92	130.40
1	25S	1454	A	C6-N1-C2	-5.81	115.12	118.60
1	25S	2899	C	C6-N1-C2	-5.81	117.98	120.30
1	25S	3130	A	C8-N9-C4	5.81	108.12	105.80
1	25S	421	G	C6-C5-N7	-5.80	126.92	130.40
1	25S	2726	C	N3-C4-N4	-5.80	113.94	118.00
1	25S	1437	C	C5-C6-N1	5.80	123.90	121.00
46	18S	59	C	N1-C2-O2	-5.80	115.42	118.90
1	25S	1920	U	O5'-P-OP2	-5.80	100.48	105.70
46	18S	14	C	C6-N1-C2	-5.80	117.98	120.30
1	25S	2966	G	C5-C6-N1	5.79	114.40	111.50
46	18S	1595	U	N3-C4-C5	-5.79	111.12	114.60
1	25S	2126	A	N1-C6-N6	-5.79	115.12	118.60
1	25S	3362	A	C5-N7-C8	-5.79	101.00	103.90
46	18S	583	C	N3-C2-O2	-5.79	117.85	121.90
1	25S	2281	A	O4'-C1'-N9	5.79	112.83	108.20
1	25S	2709	C	O5'-P-OP2	-5.79	100.49	105.70
1	25S	1934	G	N3-C2-N2	-5.78	115.85	119.90
46	18S	1026	A	N7-C8-N9	-5.78	110.91	113.80
1	25S	2796	G	N3-C4-C5	-5.78	125.71	128.60
1	25S	2929	C	O5'-P-OP2	-5.78	100.50	105.70
1	25S	2975	U	C6-N1-C2	-5.78	117.53	121.00
46	18S	901	G	C4-C5-N7	5.77	113.11	110.80
1	25S	2125	A	C5-C6-N6	-5.77	119.08	123.70
1	25S	835	G	C6-C5-N7	-5.77	126.94	130.40
1	25S	2245	C	OP1-P-OP2	5.77	128.25	119.60
1	25S	2804	A	N9-C4-C5	-5.76	103.49	105.80
1	25S	1313	G	O5'-P-OP2	-5.76	100.51	105.70
46	18S	1645	G	C6-C5-N7	-5.76	126.94	130.40
1	25S	1133	A	C2-N3-C4	-5.76	107.72	110.60
1	25S	1887	A	OP1-P-OP2	5.76	128.24	119.60
46	18S	622	A	C8-N9-C4	5.76	108.10	105.80
28	uL24	99	LEU	C-N-CA	-5.76	107.31	121.70
46	18S	313	U	N3-C2-O2	-5.76	118.17	122.20
46	18S	1165	G	N3-C4-N9	5.76	129.46	126.00
1	25S	2148	U	C5-C6-N1	-5.76	119.82	122.70
1	25S	2387	A	O5'-P-OP1	-5.76	100.52	105.70
1	25S	3130	A	N9-C4-C5	-5.76	103.50	105.80
1	25S	725	G	O5'-P-OP2	-5.75	100.52	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	2398	A	O5'-P-OP1	-5.75	100.52	105.70
1	25S	2398	A	N7-C8-N9	-5.75	110.92	113.80
1	25S	1892	G	O5'-P-OP2	-5.75	100.52	105.70
46	18S	1745	G	C5-C6-O6	-5.75	125.15	128.60
1	25S	2944	U	N3-C2-O2	-5.74	118.18	122.20
1	25S	884	A	N9-C4-C5	-5.74	103.50	105.80
81	PSIT	49	C	N1-C2-O2	5.74	122.34	118.90
1	25S	1305	U	OP2-P-O3'	5.74	117.82	105.20
1	25S	2887	A	N1-C2-N3	5.74	132.17	129.30
1	25S	2976	A	N1-C6-N6	5.74	122.04	118.60
1	25S	1906	G	OP1-P-O3'	5.73	117.81	105.20
46	18S	975	C	N1-C2-O2	-5.73	115.46	118.90
1	25S	1131	G	O5'-P-OP1	-5.72	100.55	105.70
1	25S	2899	C	C2-N1-C1'	5.72	125.09	118.80
1	25S	3139	A	OP1-P-OP2	5.72	128.18	119.60
1	25S	2925	C	N3-C4-C5	-5.71	119.62	121.90
1	25S	2421	U	C5-C4-O4	5.70	129.32	125.90
46	18S	861	U	N1-C2-O2	5.70	126.79	122.80
1	25S	802	C	C4-C5-C6	5.70	120.25	117.40
1	25S	1120	A	C2-N3-C4	-5.70	107.75	110.60
1	25S	2334	U	O5'-P-OP2	-5.70	100.57	105.70
1	25S	2884	C	N1-C2-O2	-5.70	115.48	118.90
1	25S	2888	U	C2-N3-C4	-5.70	123.58	127.00
1	25S	829	U	N3-C2-O2	-5.70	118.21	122.20
1	25S	2758	A	N9-C4-C5	5.70	108.08	105.80
46	18S	1595	U	C6-N1-C1'	5.70	129.18	121.20
1	25S	1907	C	C2-N3-C4	-5.69	117.05	119.90
1	25S	2245	C	C6-N1-C2	5.69	122.58	120.30
1	25S	2988	C	C6-N1-C2	-5.69	118.02	120.30
46	18S	885	G	C8-N9-C4	-5.69	104.12	106.40
1	25S	3057	U	N3-C2-O2	-5.69	118.22	122.20
1	25S	3143	C	C6-N1-C2	5.69	122.58	120.30
1	25S	2923	U	C2-N3-C4	-5.69	123.59	127.00
1	25S	885	U	C5-C4-O4	5.68	129.31	125.90
46	18S	1757	G	N3-C4-C5	-5.68	125.76	128.60
46	18S	1761	U	C5-C6-N1	-5.68	119.86	122.70
46	18S	1790	A	C6-C5-N7	-5.68	128.32	132.30
1	25S	1478	C	O5'-P-OP2	-5.68	100.58	105.70
46	18S	632	U	N3-C2-O2	5.68	126.18	122.20
46	18S	1782	A	C2-N3-C4	-5.68	107.76	110.60
46	18S	1124	A	C2-N3-C4	-5.68	107.76	110.60
1	25S	2274	U	C6-N1-C2	5.68	124.41	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	2726	C	N1-C2-N3	5.68	123.17	119.20
1	25S	3185	U	C6-N1-C2	5.68	124.41	121.00
1	25S	2645	G	C4-C5-N7	5.67	113.07	110.80
1	25S	3376	A	N1-C6-N6	-5.67	115.20	118.60
1	25S	1660	C	C6-N1-C2	5.67	122.57	120.30
1	25S	645	A	C6-N1-C2	-5.67	115.20	118.60
1	25S	868	C	C2-N3-C4	-5.67	117.07	119.90
1	25S	884	A	N1-C6-N6	5.67	122.00	118.60
1	25S	3143	C	C5-C6-N1	-5.67	118.17	121.00
1	25S	3375	A	OP1-P-OP2	5.67	128.10	119.60
46	18S	1324	G	C8-N9-C1'	5.67	134.37	127.00
1	25S	2903	A	N1-C6-N6	-5.66	115.20	118.60
46	18S	1201	G	C4-N9-C1'	-5.66	119.14	126.50
1	25S	888	A	N1-C6-N6	5.66	122.00	118.60
1	25S	2128	C	C5-C6-N1	-5.66	118.17	121.00
1	25S	1712	G	O5'-P-OP1	-5.66	100.61	105.70
1	25S	857	G	N9-C4-C5	-5.66	103.14	105.40
1	25S	1046	A	C8-N9-C4	-5.66	103.54	105.80
1	25S	2836	C	N1-C2-N3	5.66	123.16	119.20
1	25S	2888	U	N1-C2-O2	-5.66	118.84	122.80
1	25S	2945	G	N3-C2-N2	-5.65	115.94	119.90
1	25S	1741	A	C6-C5-N7	-5.65	128.35	132.30
1	25S	2651	G	C5-C6-O6	5.64	131.99	128.60
1	25S	2366	C	C2-N1-C1'	5.64	125.01	118.80
1	25S	645	A	N9-C4-C5	5.64	108.06	105.80
1	25S	1838	G	C6-C5-N7	-5.64	127.02	130.40
27	uL23	113	LEU	CA-CB-CG	5.64	128.27	115.30
1	25S	803	C	C6-N1-C2	-5.64	118.05	120.30
1	25S	2342	U	N3-C2-O2	-5.64	118.25	122.20
1	25S	2758	A	O4'-C1'-N9	5.64	112.71	108.20
1	25S	355	A	N1-C6-N6	5.63	121.98	118.60
1	25S	2199	G	C5-C6-O6	-5.63	125.22	128.60
1	25S	794	U	O5'-P-OP2	-5.63	100.63	105.70
1	25S	1644	C	N1-C2-O2	-5.63	115.52	118.90
1	25S	922	U	N1-C2-N3	5.63	118.28	114.90
1	25S	788	C	N1-C2-O2	5.63	122.28	118.90
1	25S	1796	G	C5-C6-N1	5.63	114.31	111.50
1	25S	2642	A	N1-C6-N6	-5.63	115.22	118.60
46	18S	355	G	N1-C6-O6	-5.62	116.53	119.90
46	18S	8	U	O5'-P-OP1	-5.62	100.64	105.70
46	18S	48	G	N3-C2-N2	5.62	123.83	119.90
1	25S	2395	G	C4-N9-C1'	-5.62	119.20	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	18S	583	C	N1-C2-O2	5.62	122.27	118.90
46	18S	682	C	O4'-C1'-N1	5.62	112.69	108.20
1	25S	1158	A	N1-C6-N6	5.62	121.97	118.60
1	25S	1319	G	N1-C6-O6	5.62	123.27	119.90
1	25S	957	C	C5-C4-N4	-5.61	116.27	120.20
46	18S	1291	G	N3-C2-N2	-5.61	115.97	119.90
46	18S	1782	A	C4-C5-C6	5.61	119.80	117.00
1	25S	3276	G	O4'-C1'-N9	5.60	112.68	108.20
1	25S	2646	C	N1-C2-O2	5.60	122.26	118.90
1	25S	2355	G	N1-C6-O6	5.60	123.26	119.90
46	18S	216	U	O4'-C1'-N1	5.60	112.68	108.20
1	25S	2366	C	C5-C4-N4	-5.60	116.28	120.20
1	25S	2663	G	C6-C5-N7	-5.60	127.04	130.40
68	eS21	78	LEU	CA-CB-CG	5.60	128.17	115.30
46	18S	543	C	N1-C2-O2	5.60	122.26	118.90
46	18S	1559	A	O4'-C1'-N9	5.59	112.68	108.20
1	25S	2269	U	N3-C2-O2	-5.59	118.29	122.20
46	18S	1641	C	N1-C2-O2	-5.59	115.55	118.90
1	25S	922	U	C2-N3-C4	-5.59	123.65	127.00
1	25S	3206	C	N1-C2-O2	5.58	122.25	118.90
1	25S	776	U	C5-C4-O4	5.58	129.25	125.90
1	25S	835	G	C4-C5-N7	5.58	113.03	110.80
1	25S	2402	A	OP1-P-O3'	5.57	117.46	105.20
46	18S	1095	U	C5-C6-N1	-5.57	119.91	122.70
1	25S	890	C	N3-C4-N4	-5.57	114.10	118.00
1	25S	2123	G	N7-C8-N9	-5.57	110.31	113.10
1	25S	591	G	C5-C6-N1	-5.57	108.72	111.50
46	18S	1537	C	C2-N1-C1'	5.57	124.92	118.80
1	25S	1751	G	C8-N9-C4	5.56	108.63	106.40
46	18S	313	U	O5'-P-OP1	-5.56	100.69	105.70
46	18S	1492	A	O4'-C1'-N9	5.56	112.65	108.20
1	25S	3206	C	C5-C4-N4	5.56	124.09	120.20
1	25S	2305	G	O4'-C1'-N9	5.55	112.64	108.20
1	25S	3057	U	C6-N1-C2	-5.55	117.67	121.00
1	25S	1677	G	C6-C5-N7	-5.55	127.07	130.40
1	25S	2375	G	N3-C4-C5	5.55	131.37	128.60
1	25S	1713	G	O5'-P-OP1	-5.54	100.71	105.70
1	25S	941	G	N3-C2-N2	-5.54	116.02	119.90
1	25S	1877	U	OP1-P-O3'	5.54	117.39	105.20
1	25S	46	U	C5-C6-N1	5.54	125.47	122.70
46	18S	1143	A	O5'-P-OP1	5.54	117.34	110.70
1	25S	98	G	C4-C5-N7	5.53	113.01	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	2978	U	O4'-C1'-N1	5.53	112.63	108.20
1	25S	2125	A	N1-C6-N6	5.53	121.92	118.60
1	25S	2391	G	C8-N9-C4	5.53	108.61	106.40
1	25S	2157	G	N1-C6-O6	5.53	123.22	119.90
1	25S	2874	G	C5-C6-O6	5.53	131.92	128.60
1	25S	1849	C	C6-N1-C2	5.53	122.51	120.30
2	AB	6	C	N3-C4-C5	5.52	124.11	121.90
1	25S	2890	A	N1-C2-N3	-5.52	126.54	129.30
1	25S	609	G	O4'-C1'-N9	5.52	112.61	108.20
1	25S	98	G	C6-C5-N7	-5.52	127.09	130.40
46	18S	1761	U	N3-C2-O2	-5.52	118.34	122.20
1	25S	2620	G	N9-C4-C5	-5.51	103.19	105.40
1	25S	2983	C	C4-C5-C6	5.51	120.16	117.40
1	25S	1196	C	C6-N1-C2	5.51	122.50	120.30
46	18S	1615	C	C2-N1-C1'	5.51	124.86	118.80
1	25S	2311	G	C5-C6-O6	-5.50	125.30	128.60
1	25S	859	G	OP2-P-O3'	5.50	117.30	105.20
46	18S	1324	G	C4-N9-C1'	-5.50	119.35	126.50
1	25S	2184	U	C5-C6-N1	5.50	125.45	122.70
1	25S	1477	A	C5-C6-N6	5.50	128.10	123.70
46	18S	140	A	C5-C6-N6	-5.50	119.30	123.70
46	18S	901	G	C5-N7-C8	-5.50	101.55	104.30
46	18S	1241	G	O4'-C1'-N9	5.50	112.60	108.20
1	25S	641	C	N1-C2-O2	-5.49	115.61	118.90
1	25S	3026	G	C8-N9-C4	-5.49	104.20	106.40
1	25S	915	A	C8-N9-C4	-5.49	103.60	105.80
46	18S	1750	A	O5'-P-OP2	-5.49	100.76	105.70
1	25S	1209	G	N1-C6-O6	-5.49	116.61	119.90
1	25S	2379	U	N3-C4-C5	5.49	117.89	114.60
1	25S	3086	A	OP1-P-O3'	5.49	117.28	105.20
1	25S	3092	C	C2-N1-C1'	-5.49	112.76	118.80
1	25S	970	A	C5-C6-N6	-5.49	119.31	123.70
1	25S	2551	U	C5-C6-N1	-5.48	119.96	122.70
1	25S	2608	G	N9-C4-C5	-5.48	103.21	105.40
1	25S	913	A	OP2-P-O3'	5.48	117.25	105.20
1	25S	1495	U	C2-N1-C1'	-5.48	111.13	117.70
46	18S	359	A	N1-C6-N6	5.48	121.89	118.60
1	25S	2620	G	C4-C5-N7	5.47	112.99	110.80
1	25S	1481	A	O5'-P-OP1	-5.47	100.78	105.70
1	25S	2315	G	O5'-P-OP2	5.47	117.27	110.70
1	25S	2846	U	N3-C2-O2	-5.47	118.37	122.20
54	eS7	27	LEU	CA-CB-CG	5.47	127.89	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	1918	C	C5-C6-N1	-5.47	118.27	121.00
1	25S	1404	G	C4-N9-C1'	-5.47	119.39	126.50
46	18S	18	C	C6-N1-C2	-5.47	118.11	120.30
1	25S	3043	C	C5-C6-N1	-5.46	118.27	121.00
1	25S	3115	C	OP1-P-O3'	5.46	117.22	105.20
1	25S	3305	A	C8-N9-C4	5.46	107.98	105.80
1	25S	647	A	C2-N3-C4	-5.46	107.87	110.60
1	25S	3309	G	OP1-P-OP2	5.46	127.79	119.60
46	18S	901	G	C8-N9-C1'	-5.46	119.90	127.00
46	18S	901	G	N3-C2-N2	5.46	123.72	119.90
46	18S	1307	U	C2-N1-C1'	5.46	124.25	117.70
46	18S	861	U	C2-N1-C1'	5.45	124.24	117.70
1	25S	1176	C	N1-C2-O2	-5.45	115.63	118.90
1	25S	1199	C	C5-C4-N4	-5.45	116.39	120.20
1	25S	2867	C	N3-C4-C5	5.45	124.08	121.90
1	25S	42	C	OP2-P-O3'	5.45	117.18	105.20
1	25S	2393	G	N3-C2-N2	-5.45	116.09	119.90
1	25S	2272	G	C5-C6-O6	-5.44	125.33	128.60
1	25S	290	G	O5'-P-OP2	-5.44	100.81	105.70
1	25S	776	U	C4-C5-C6	5.44	122.96	119.70
1	25S	2321	A	N1-C6-N6	5.44	121.86	118.60
1	25S	3049	A	N1-C6-N6	5.44	121.86	118.60
1	25S	838	G	N3-C4-N9	-5.43	122.74	126.00
1	25S	875	G	C8-N9-C4	5.43	108.57	106.40
1	25S	2290	C	C4-C5-C6	5.43	120.12	117.40
46	18S	34	G	C5-C6-O6	-5.43	125.34	128.60
46	18S	1094	G	O5'-P-OP2	-5.43	100.81	105.70
1	25S	1447	G	O4'-C1'-N9	5.43	112.54	108.20
1	25S	1930	A	N7-C8-N9	5.43	116.51	113.80
46	18S	1073	G	O5'-P-OP2	-5.43	100.82	105.70
1	25S	297	G	O4'-C1'-N9	5.42	112.54	108.20
1	25S	1902	G	N1-C6-O6	5.42	123.15	119.90
1	25S	2301	U	C5-C6-N1	-5.42	119.99	122.70
1	25S	857	G	C4-C5-N7	5.42	112.97	110.80
1	25S	3030	G	C8-N9-C4	-5.42	104.23	106.40
1	25S	1931	U	O5'-P-OP2	-5.42	100.83	105.70
1	25S	2346	C	C5-C6-N1	-5.42	118.29	121.00
1	25S	1152	G	O4'-C1'-N9	5.41	112.53	108.20
1	25S	2257	C	C6-N1-C1'	-5.41	114.31	120.80
2	AB	49	G	N7-C8-N9	-5.41	110.40	113.10
1	25S	1404	G	N3-C4-C5	5.40	131.30	128.60
81	PSIT	20	G	OP2-P-O3'	5.40	117.08	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	18S	368	U	N3-C2-O2	-5.40	118.42	122.20
46	18S	610	G	C8-N9-C1'	-5.40	119.98	127.00
46	18S	1458	G	C4-N9-C1'	5.40	133.52	126.50
1	25S	2793	G	N1-C6-O6	-5.39	116.66	119.90
1	25S	941	G	N1-C6-O6	5.39	123.14	119.90
1	25S	111	C	C2-N1-C1'	5.39	124.73	118.80
1	25S	1146	C	O5'-P-OP2	-5.39	100.85	105.70
1	25S	2348	A	OP1-P-O3'	5.39	117.06	105.20
2	AB	99	G	N3-C4-C5	5.39	131.29	128.60
1	25S	3062	G	C6-C5-N7	5.39	133.63	130.40
1	25S	808	A	C8-N9-C4	5.38	107.95	105.80
1	25S	1654	A	C6-C5-N7	-5.38	128.53	132.30
1	25S	1923	C	N3-C4-N4	-5.38	114.23	118.00
1	25S	2146	C	O5'-P-OP2	5.38	117.16	110.70
1	25S	2873	U	N3-C4-O4	-5.38	115.63	119.40
1	25S	2726	C	C2-N3-C4	-5.38	117.21	119.90
1	25S	2269	U	C5-C6-N1	-5.38	120.01	122.70
1	25S	2651	G	N1-C6-O6	-5.38	116.67	119.90
1	25S	424	G	C2-N3-C4	-5.37	109.21	111.90
46	18S	938	G	O5'-P-OP1	-5.37	100.86	105.70
1	25S	908	G	O4'-C1'-N9	-5.37	103.90	108.20
1	25S	1525	G	N3-C4-N9	5.37	129.22	126.00
1	25S	1445	U	C5-C6-N1	-5.37	120.02	122.70
1	25S	1320	C	C6-N1-C2	5.36	122.45	120.30
1	25S	1880	U	OP2-P-O3'	5.36	117.00	105.20
1	25S	2279	A	C5-N7-C8	-5.36	101.22	103.90
1	25S	648	C	OP1-P-OP2	5.36	127.64	119.60
46	18S	1645	G	N1-C6-O6	5.36	123.12	119.90
1	25S	75	G	C4-N9-C1'	5.36	133.46	126.50
1	25S	1540	U	N3-C2-O2	5.36	125.95	122.20
1	25S	2303	A	C5-C6-N1	5.36	120.38	117.70
1	25S	3298	C	C6-N1-C2	5.35	122.44	120.30
46	18S	1465	C	O5'-P-OP1	-5.35	100.88	105.70
1	25S	2213	A	OP2-P-O3'	5.35	116.97	105.20
1	25S	2989	U	C5-C6-N1	-5.35	120.03	122.70
46	18S	140	A	C4-C5-N7	5.35	113.37	110.70
46	18S	1116	A	N1-C6-N6	-5.35	115.39	118.60
1	25S	645	A	N1-C6-N6	-5.34	115.39	118.60
1	25S	968	G	N1-C6-O6	5.34	123.11	119.90
46	18S	1157	A	C8-N9-C4	-5.34	103.66	105.80
1	25S	1404	G	N3-C4-N9	-5.34	122.80	126.00
1	25S	1851	G	C4-C5-N7	5.34	112.94	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	1320	C	N3-C4-C5	5.34	124.04	121.90
1	25S	2354	C	N3-C2-O2	5.34	125.64	121.90
1	25S	2960	C	C2-N3-C4	-5.34	117.23	119.90
46	18S	1769	U	N1-C2-N3	5.34	118.10	114.90
1	25S	1310	G	N3-C2-N2	-5.33	116.17	119.90
1	25S	2241	U	N3-C2-O2	-5.33	118.47	122.20
1	25S	2923	U	C5-C6-N1	-5.33	120.03	122.70
1	25S	1855	U	N3-C2-O2	-5.33	118.47	122.20
1	25S	3309	G	O5'-P-OP1	-5.33	100.90	105.70
1	25S	1367	G	O5'-P-OP1	-5.33	100.91	105.70
1	25S	2617	U	N3-C4-O4	-5.32	115.68	119.40
1	25S	1115	G	N3-C2-N2	-5.32	116.18	119.90
1	25S	3303	G	O4'-C1'-N9	5.32	112.45	108.20
46	18S	396	G	C4-C5-N7	5.32	112.93	110.80
46	18S	1622	G	C4-C5-C6	5.32	121.99	118.80
1	25S	970	A	N1-C6-N6	5.32	121.79	118.60
1	25S	1495	U	C6-N1-C1'	5.32	128.65	121.20
1	25S	2948	C	N3-C2-O2	-5.32	118.18	121.90
46	18S	1246	C	N1-C2-O2	5.32	122.09	118.90
1	25S	2642	A	C8-N9-C4	-5.31	103.67	105.80
1	25S	2908	G	N3-C4-C5	5.31	131.26	128.60
1	25S	2992	U	N3-C2-O2	5.31	125.92	122.20
1	25S	1898	G	C6-C5-N7	5.31	133.59	130.40
1	25S	2272	G	N9-C4-C5	-5.31	103.28	105.40
46	18S	1126	G	OP2-P-O3'	5.31	116.88	105.20
1	25S	2128	C	N1-C2-O2	5.31	122.08	118.90
1	25S	2239	G	N1-C6-O6	5.31	123.08	119.90
1	25S	2787	G	C4-N9-C1'	5.31	133.40	126.50
46	18S	1257	U	C2-N1-C1'	5.31	124.07	117.70
1	25S	1128	U	C4-C5-C6	5.31	122.88	119.70
1	25S	3209	A	O5'-P-OP2	-5.31	100.92	105.70
2	AB	99	G	C5-N7-C8	-5.31	101.65	104.30
46	18S	1208	A	C8-N9-C4	5.30	107.92	105.80
1	25S	345	G	N3-C2-N2	-5.30	116.19	119.90
1	25S	1134	G	C5-C6-O6	5.30	131.78	128.60
1	25S	1589	A	N1-C6-N6	5.30	121.78	118.60
1	25S	2731	U	N3-C4-O4	-5.30	115.69	119.40
1	25S	2164	A	N1-C6-N6	5.30	121.78	118.60
46	18S	435	C	N3-C2-O2	5.29	125.60	121.90
1	25S	1900	A	N9-C4-C5	5.29	107.92	105.80
1	25S	2953	U	C5-C6-N1	-5.29	120.06	122.70
1	25S	583	G	OP1-P-O3'	5.29	116.83	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	3067	C	C2-N1-C1'	-5.29	112.98	118.80
1	25S	3382	U	N3-C2-O2	-5.29	118.50	122.20
1	25S	1116	G	N9-C4-C5	5.29	107.51	105.40
1	25S	3308	C	N1-C2-O2	-5.29	115.73	118.90
1	25S	318	A	N1-C6-N6	-5.28	115.43	118.60
1	25S	1481	A	C5-C6-N6	-5.28	119.48	123.70
1	25S	2550	U	N1-C2-N3	5.28	118.07	114.90
46	18S	1397	U	P-O3'-C3'	5.28	126.03	119.70
1	25S	1556	C	C5-C6-N1	5.28	123.64	121.00
1	25S	3055	U	N3-C4-O4	-5.27	115.71	119.40
46	18S	393	C	N1-C2-O2	-5.27	115.74	118.90
1	25S	963	G	N7-C8-N9	-5.27	110.46	113.10
1	25S	1128	U	C2-N3-C4	-5.27	123.84	127.00
1	25S	1207	G	N1-C2-N2	-5.27	111.45	116.20
1	25S	2605	G	C4-C5-N7	5.27	112.91	110.80
1	25S	1848	G	C5-C6-O6	-5.27	125.44	128.60
46	18S	1773	C	O5'-P-OP2	-5.27	100.96	105.70
1	25S	3141	A	N1-C6-N6	5.27	121.76	118.60
46	18S	688	G	O4'-C1'-N9	5.27	112.41	108.20
1	25S	2138	A	C5-C6-N6	5.26	127.91	123.70
1	25S	2628	A	N1-C6-N6	-5.26	115.44	118.60
1	25S	1410	U	C2-N1-C1'	-5.26	111.39	117.70
1	25S	1590	G	C8-N9-C4	5.26	108.50	106.40
1	25S	1912	U	C5-C6-N1	-5.26	120.07	122.70
1	25S	506	U	N3-C2-O2	-5.26	118.52	122.20
1	25S	2748	A	N1-C6-N6	5.26	121.75	118.60
46	18S	861	U	N3-C2-O2	-5.25	118.52	122.20
1	25S	2156	C	C5-C6-N1	-5.25	118.37	121.00
1	25S	2978	U	N1-C2-N3	5.25	118.05	114.90
1	25S	2605	G	C5-N7-C8	-5.24	101.68	104.30
1	25S	3124	G	N1-C6-O6	-5.24	116.75	119.90
1	25S	104	G	N1-C6-O6	5.24	123.05	119.90
1	25S	1196	C	OP1-P-OP2	5.24	127.46	119.60
1	25S	1646	G	O4'-C1'-N9	5.24	112.39	108.20
1	25S	1742	U	C5-C6-N1	5.24	125.32	122.70
1	25S	2756	C	N3-C4-C5	-5.24	119.81	121.90
1	25S	423	A	C8-N9-C4	5.24	107.89	105.80
1	25S	3049	A	N9-C4-C5	-5.24	103.71	105.80
1	25S	1380	G	N3-C4-C5	5.23	131.21	128.60
46	18S	1595	U	N1-C2-O2	-5.23	119.14	122.80
1	25S	648	C	N3-C4-C5	5.22	123.99	121.90
1	25S	2363	A	N1-C2-N3	-5.22	126.69	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	2807	U	P-O3'-C3'	5.22	125.97	119.70
81	PSIT	49	C	C6-N1-C1'	-5.22	114.53	120.80
1	25S	2615	G	C5-C6-O6	5.22	131.73	128.60
1	25S	2994	A	N9-C4-C5	-5.22	103.71	105.80
46	18S	978	A	C5-C6-N6	-5.22	119.53	123.70
1	25S	2834	G	N3-C2-N2	-5.22	116.25	119.90
1	25S	2257	C	C6-N1-C2	-5.22	118.21	120.30
1	25S	2321	A	C4-C5-N7	5.22	113.31	110.70
46	18S	795	U	C2-N1-C1'	5.22	123.96	117.70
1	25S	1928	G	O5'-P-OP1	-5.21	101.01	105.70
1	25S	2287	C	N3-C4-N4	5.21	121.65	118.00
1	25S	1907	C	N1-C2-O2	-5.21	115.77	118.90
1	25S	2721	A	N1-C6-N6	-5.21	115.47	118.60
46	18S	1195	C	O5'-P-OP2	-5.21	101.01	105.70
1	25S	355	A	N3-C4-C5	5.21	130.44	126.80
1	25S	505	G	N1-C6-O6	-5.21	116.78	119.90
1	25S	2147	A	C5-N7-C8	-5.21	101.30	103.90
1	25S	795	G	C4-C5-N7	5.21	112.88	110.80
1	25S	843	A	N9-C4-C5	-5.21	103.72	105.80
1	25S	2269	U	O5'-P-OP1	5.21	116.95	110.70
46	18S	1596	C	C6-N1-C2	-5.21	118.22	120.30
1	25S	387	A	OP1-P-O3'	5.21	116.65	105.20
46	18S	48	G	N1-C6-O6	-5.21	116.78	119.90
46	18S	540	G	N3-C4-N9	5.21	129.12	126.00
1	25S	2272	G	C4-C5-N7	5.20	112.88	110.80
1	25S	2287	C	N1-C2-O2	-5.20	115.78	118.90
1	25S	1404	G	C8-N9-C1'	5.20	133.76	127.00
1	25S	2868	U	OP1-P-O3'	5.20	116.64	105.20
1	25S	1507	G	N3-C4-N9	5.20	129.12	126.00
1	25S	2988	C	C4-C5-C6	5.20	120.00	117.40
1	25S	2282	U	C5-C6-N1	-5.20	120.10	122.70
1	25S	2332	A	C8-N9-C4	5.20	107.88	105.80
1	25S	962	A	O5'-P-OP1	-5.19	101.03	105.70
1	25S	2153	U	O5'-P-OP2	-5.19	101.03	105.70
1	25S	3206	C	P-O3'-C3'	5.19	125.93	119.70
1	25S	873	C	P-O3'-C3'	5.19	125.93	119.70
1	25S	2357	A	O5'-P-OP2	-5.19	101.03	105.70
2	AB	91	G	N3-C4-N9	5.19	129.12	126.00
46	18S	48	G	N1-C2-N2	-5.19	111.53	116.20
1	25S	857	G	C2-N3-C4	-5.19	109.31	111.90
46	18S	1585	U	C5-C4-O4	5.19	129.01	125.90
1	25S	3145	C	N3-C4-C5	5.19	123.97	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	2923	U	N1-C2-O2	-5.19	119.17	122.80
3	58S	108	C	O5'-P-OP2	-5.18	101.03	105.70
46	18S	1535	U	N3-C4-O4	-5.18	115.77	119.40
1	25S	427	C	C2-N3-C4	-5.18	117.31	119.90
1	25S	2136	C	N3-C4-C5	5.18	123.97	121.90
1	25S	283	G	N1-C6-O6	5.18	123.01	119.90
1	25S	356	C	OP1-P-OP2	5.18	127.37	119.60
1	25S	887	G	C5-C6-O6	5.18	131.71	128.60
1	25S	1137	C	OP1-P-O3'	5.18	116.59	105.20
1	25S	1480	G	O4'-C1'-N9	5.18	112.34	108.20
1	25S	3306	U	C2-N1-C1'	5.18	123.91	117.70
46	18S	984	G	C5-C6-O6	-5.18	125.49	128.60
1	25S	3057	U	N3-C4-C5	-5.18	111.49	114.60
1	25S	960	U	C2-N1-C1'	5.17	123.91	117.70
1	25S	1507	G	C6-C5-N7	-5.17	127.30	130.40
46	18S	56	U	OP1-P-O3'	5.17	116.58	105.20
46	18S	981	U	C5-C6-N1	5.17	125.29	122.70
1	25S	804	C	C2-N1-C1'	-5.17	113.11	118.80
1	25S	924	G	N1-C6-O6	5.17	123.00	119.90
1	25S	1306	G	N3-C2-N2	5.17	123.52	119.90
1	25S	1900	A	C2-N3-C4	5.17	113.18	110.60
46	18S	1761	U	N3-C4-O4	-5.17	115.78	119.40
46	18S	976	G	N3-C4-N9	-5.17	122.90	126.00
46	18S	1425	A	N1-C6-N6	-5.17	115.50	118.60
1	25S	1119	C	N1-C2-O2	5.16	122.00	118.90
46	18S	1205	C	C6-N1-C2	5.16	122.37	120.30
46	18S	1622	G	C5-C6-N1	-5.16	108.92	111.50
1	25S	3306	U	C2-N3-C4	-5.16	123.90	127.00
1	25S	2269	U	N1-C2-N3	5.16	118.00	114.90
1	25S	2870	C	C6-N1-C2	-5.16	118.24	120.30
1	25S	3204	C	C6-N1-C2	5.16	122.36	120.30
1	25S	1844	C	N3-C4-C5	-5.15	119.84	121.90
46	18S	1029	U	C5-C6-N1	-5.15	120.12	122.70
46	18S	1080	U	C5-C6-N1	5.15	125.28	122.70
46	18S	1788	G	O5'-P-OP1	-5.15	101.06	105.70
1	25S	3026	G	N9-C4-C5	5.15	107.46	105.40
2	AB	97	A	N1-C6-N6	5.15	121.69	118.60
1	25S	776	U	C5-C6-N1	-5.15	120.13	122.70
1	25S	637	C	C2-N3-C4	-5.14	117.33	119.90
1	25S	1303	A	C5-C6-N6	-5.14	119.58	123.70
1	25S	2733	A	C8-N9-C4	5.14	107.86	105.80
1	25S	3042	U	OP1-P-O3'	5.14	116.51	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
70	uS12	62	LYS	C-N-CA	-5.14	108.84	121.70
1	25S	1672	U	N1-C2-O2	-5.14	119.20	122.80
1	25S	2884	C	N3-C4-N4	5.14	121.60	118.00
1	25S	2756	C	OP1-P-O3'	5.14	116.50	105.20
1	25S	2380	U	C5-C6-N1	-5.14	120.13	122.70
1	25S	2418	G	OP2-P-O3'	5.14	116.50	105.20
46	18S	1314	U	O4'-C1'-N1	5.14	112.31	108.20
1	25S	3091	A	C8-N9-C4	-5.13	103.75	105.80
46	18S	982	U	N1-C2-O2	-5.13	119.21	122.80
1	25S	1098	A	C5-N7-C8	-5.13	101.33	103.90
1	25S	861	C	N3-C4-C5	5.13	123.95	121.90
1	25S	2158	A	C8-N9-C4	5.13	107.85	105.80
1	25S	2314	U	C5-C6-N1	-5.13	120.14	122.70
78	RACK	13	LEU	CA-CB-CG	5.13	127.10	115.30
1	25S	98	G	C5-C6-O6	-5.13	125.53	128.60
1	25S	818	C	N1-C2-O2	-5.13	115.82	118.90
1	25S	2148	U	C2-N3-C4	-5.13	123.92	127.00
2	AB	84	A	N9-C4-C5	5.12	107.85	105.80
1	25S	2209	U	N1-C2-O2	5.12	126.39	122.80
1	25S	2242	A	C2-N3-C4	-5.12	108.04	110.60
1	25S	2238	G	N1-C6-O6	5.12	122.97	119.90
1	25S	2985	C	N3-C4-C5	-5.12	119.85	121.90
81	PSIT	1	C	C6-N1-C2	-5.12	118.25	120.30
1	25S	1907	C	N3-C4-C5	5.12	123.95	121.90
1	25S	2417	U	N3-C4-O4	5.11	122.98	119.40
1	25S	353	G	O4'-C1'-N9	5.11	112.29	108.20
1	25S	2937	G	OP2-P-O3'	5.11	116.44	105.20
41	eL39	23	LEU	CA-CB-CG	5.11	127.05	115.30
46	18S	1143	A	O5'-P-OP2	-5.11	101.10	105.70
1	25S	1481	A	N9-C4-C5	-5.11	103.76	105.80
46	18S	1365	C	C5-C6-N1	5.11	123.55	121.00
1	25S	2294	U	O5'-P-OP1	-5.11	101.10	105.70
1	25S	2930	A	O4'-C1'-N9	5.11	112.29	108.20
46	18S	424	C	C6-N1-C2	5.11	122.34	120.30
46	18S	1458	G	N3-C4-N9	5.11	129.06	126.00
1	25S	2816	G	C4-N9-C1'	-5.11	119.86	126.50
1	25S	2375	G	C4-N9-C1'	-5.10	119.86	126.50
1	25S	3330	A	C8-N9-C4	5.10	107.84	105.80
1	25S	874	U	N1-C2-O2	5.10	126.37	122.80
46	18S	117	U	OP1-P-OP2	5.10	127.25	119.60
62	uS19	65	LEU	CA-CB-CG	5.10	127.04	115.30
1	25S	2382	G	N1-C2-N2	-5.10	111.61	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	18S	434	G	N9-C4-C5	5.10	107.44	105.40
46	18S	1196	A	OP2-P-O3'	5.10	116.42	105.20
1	25S	1206	G	N1-C6-O6	5.10	122.96	119.90
1	25S	1615	C	N1-C2-O2	5.10	121.96	118.90
1	25S	2500	A	O4'-C1'-N9	5.10	112.28	108.20
1	25S	98	G	N1-C6-O6	5.09	122.96	119.90
1	25S	889	U	OP2-P-O3'	5.09	116.41	105.20
1	25S	1116	G	N3-C2-N2	-5.09	116.33	119.90
1	25S	2378	C	N3-C2-O2	-5.09	118.33	121.90
1	25S	3382	U	C5-C6-N1	5.09	125.25	122.70
46	18S	18	C	N3-C4-C5	-5.09	119.86	121.90
1	25S	1729	A	OP1-P-OP2	-5.09	111.96	119.60
1	25S	888	A	C5-C6-N6	-5.09	119.63	123.70
1	25S	2293	C	C5-C6-N1	-5.09	118.45	121.00
1	25S	3365	U	O5'-P-OP2	-5.09	101.12	105.70
46	18S	1011	G	N1-C6-O6	5.09	122.95	119.90
46	18S	395	U	C5-C4-O4	-5.09	122.85	125.90
2	AB	2	G	N1-C6-O6	-5.09	116.85	119.90
46	18S	1491	U	P-O3'-C3'	5.09	125.81	119.70
1	25S	1796	G	C6-N1-C2	-5.09	122.05	125.10
1	25S	3117	C	N3-C2-O2	5.09	125.46	121.90
1	25S	283	G	C4-C5-N7	5.08	112.83	110.80
1	25S	3050	U	N1-C2-O2	5.08	126.36	122.80
1	25S	1900	A	OP1-P-O3'	5.08	116.38	105.20
1	25S	3309	G	C8-N9-C4	-5.08	104.37	106.40
1	25S	1716	U	O5'-P-OP1	-5.08	101.13	105.70
46	18S	1108	G	C8-N9-C4	5.08	108.43	106.40
46	18S	378	A	O5'-P-OP1	5.08	116.79	110.70
1	25S	868	C	OP2-P-O3'	5.07	116.36	105.20
1	25S	2763	U	C5-C4-O4	-5.07	122.86	125.90
1	25S	545	U	C5-C6-N1	5.07	125.23	122.70
1	25S	3367	C	OP1-P-O3'	5.07	116.35	105.20
46	18S	314	C	N1-C2-O2	-5.07	115.86	118.90
1	25S	2935	U	N1-C2-N3	-5.07	111.86	114.90
1	25S	3382	U	C6-N1-C1'	-5.07	114.11	121.20
46	18S	583	C	C2-N1-C1'	5.07	124.37	118.80
1	25S	427	C	N1-C2-O2	-5.06	115.86	118.90
80	eEF2	31	GLY	O-C-N	-5.06	114.60	122.70
1	25S	923	C	C6-N1-C2	5.06	122.33	120.30
46	18S	354	C	C2-N3-C4	5.06	122.43	119.90
1	25S	807	A	O4'-C1'-N9	5.06	112.25	108.20
1	25S	2960	C	C4-C5-C6	5.06	119.93	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	2640	A	OP1-P-OP2	-5.06	112.02	119.60
1	25S	857	G	N3-C4-C5	5.05	131.13	128.60
46	18S	1073	G	C4-C5-N7	-5.05	108.78	110.80
1	25S	2826	U	C5-C4-O4	5.05	128.93	125.90
1	25S	2985	C	C6-N1-C2	-5.05	118.28	120.30
1	25S	307	A	C8-N9-C4	5.05	107.82	105.80
1	25S	1831	U	O5'-P-OP1	-5.05	101.15	105.70
1	25S	2213	A	N1-C6-N6	-5.05	115.57	118.60
62	uS19	123	TYR	C-N-CA	-5.05	109.07	121.70
1	25S	1411	C	N1-C2-O2	5.05	121.93	118.90
1	25S	1890	U	N3-C4-O4	5.05	122.93	119.40
1	25S	2958	A	N1-C2-N3	5.05	131.82	129.30
46	18S	1660	A	C5-C6-N6	-5.05	119.66	123.70
1	25S	1145	G	O5'-P-OP2	-5.05	101.16	105.70
15	eL13	54	LEU	C-N-CA	-5.05	109.09	121.70
46	18S	1595	U	C4-C5-C6	5.05	122.73	119.70
1	25S	3309	G	N1-C6-O6	5.04	122.93	119.90
46	18S	985	G	N9-C4-C5	-5.04	103.38	105.40
1	25S	2915	U	C2-N1-C1'	-5.04	111.65	117.70
46	18S	423	G	C4-N9-C1'	-5.04	119.95	126.50
50	uS3	96	LEU	CA-CB-CG	5.04	126.89	115.30
1	25S	1152	G	C4-N9-C1'	5.04	133.05	126.50
46	18S	1200	G	C5-C6-O6	-5.04	125.58	128.60
46	18S	376	C	O5'-P-OP2	-5.04	101.17	105.70
46	18S	1747	G	C8-N9-C4	-5.04	104.39	106.40
1	25S	1133	A	C8-N9-C4	5.03	107.81	105.80
1	25S	1562	C	P-O3'-C3'	5.03	125.74	119.70
1	25S	1820	U	OP2-P-O3'	5.03	116.28	105.20
46	18S	1097	U	N1-C2-O2	5.03	126.32	122.80
1	25S	1348	U	O4'-C1'-N1	5.03	112.23	108.20
46	18S	430	G	OP2-P-O3'	5.03	116.27	105.20
1	25S	2271	A	OP1-P-O3'	5.03	116.27	105.20
1	25S	2878	G	N1-C2-N2	-5.03	111.67	116.20
1	25S	2377	G	N9-C4-C5	-5.03	103.39	105.40
46	18S	628	G	N1-C6-O6	5.03	122.92	119.90
1	25S	46	U	C4-C5-C6	-5.02	116.69	119.70
1	25S	2335	G	N3-C2-N2	-5.02	116.38	119.90
1	25S	3140	G	C5-C6-O6	-5.02	125.59	128.60
46	18S	403	G	N1-C6-O6	5.02	122.91	119.90
46	18S	1157	A	N7-C8-N9	5.02	116.31	113.80
1	25S	3309	G	C4-C5-C6	5.01	121.81	118.80
3	58S	8	C	N1-C2-O2	-5.01	115.89	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	890	C	C2-N1-C1'	-5.01	113.29	118.80
1	25S	2911	A	O5'-P-OP1	-5.01	101.19	105.70
46	18S	1633	A	P-O3'-C3'	5.01	125.72	119.70
1	25S	1138	U	OP1-P-OP2	-5.01	112.08	119.60
1	25S	1921	A	OP2-P-O3'	5.01	116.23	105.20
1	25S	2123	G	N3-C4-N9	5.01	129.01	126.00
46	18S	13	C	N1-C2-O2	5.01	121.91	118.90
46	18S	43	A	N9-C4-C5	-5.01	103.80	105.80
2	AB	68	C	C6-N1-C2	-5.01	118.30	120.30
46	18S	1595	U	C2-N1-C1'	-5.01	111.69	117.70
1	25S	1434	G	N3-C2-N2	-5.01	116.39	119.90
1	25S	1838	G	N3-C4-N9	5.01	129.00	126.00
46	18S	42	G	C4-C5-N7	-5.01	108.80	110.80
1	25S	2761	G	C4-C5-C6	-5.00	115.80	118.80
1	25S	2984	C	C2-N3-C4	5.00	122.40	119.90
1	25S	1808	G	C2-N3-C4	-5.00	109.40	111.90
46	18S	1030	A	OP2-P-O3'	5.00	116.20	105.20

There are no chirality outliers.

All (53) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
78	RACK	302	PHE	Peptide
80	eEF2	493	VAL	Peptide
16	eL14	28	SER	Peptide
20	eL18	116	LYS	Peptide
22	eL20	22	PRO	Peptide
22	eL20	23	LYS	Peptide
23	eL21	103	GLN	Peptide
35	eL33	15	SER	Peptide
36	eL34	80	ARG	Peptide
40	eL38	73	LEU	Peptide
44	eL42	14	GLY	Peptide
57	eS10	11	ILE	Peptide
59	eS12	130	THR	Peptide
59	eS12	50	LYS	Peptide
59	eS12	63	VAL	Peptide
71	eS24	48	TYR	Peptide
71	eS24	49	LYS	Peptide
72	eS25	47	TYR	Peptide
72	eS25	48	ASP	Peptide
74	eS27	78	SER	Peptide

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Mol	Chain	Res	Type	Group
51	eS4	118	GLU	Peptide
53	eS6	153	VAL	Peptide
53	eS6	166	GLU	Peptide
53	eS6	27	PHE	Peptide
53	eS6	80	ASN	Peptide
54	eS7	108	GLN	Peptide
55	eS8	86	SER	Peptide
83	uL11	155	ILE	Peptide
18	uL13	110	PRO	Peptide
18	uL13	13	GLY	Peptide
8	uL18	58	LYS	Peptide
5	uL2	19	HIS	Peptide
19	uL22	69	ARG	Sidechain
6	uL3	126	LYS	Peptide
6	uL3	385	LYS	Peptide
7	uL4	318	LEU	Peptide
14	uL5	94	ARG	Peptide
61	uS11	123	SER	Peptide
61	uS11	124	ASP	Peptide
65	uS13	12	GLN	Peptide
60	uS15	105	ASN	Peptide
60	uS15	43	LYS	Peptide
62	uS19	52	LYS	Peptide
47	uS2	94	GLY	Peptide
50	uS3	142	LEU	Peptide
50	uS3	143	ARG	Peptide
52	uS7	105	GLY	Peptide
52	uS7	65	ARG	Peptide
52	uS7	80	LYS	Peptide
69	uS8	54	ASP	Peptide
63	uS9	40	GLU	Peptide
63	uS9	41	PRO	Peptide
63	uS9	97	VAL	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	25S	68026	0	34186	737	0
2	AB	2579	0	1304	25	0
3	58S	3353	0	1695	43	0
4	uL10	1543	0	0	0	0
5	uL2	1878	0	2248	0	0
6	uL3	3075	0	3336	0	0
7	uL4	2748	0	2859	0	0
8	uL18	2375	0	0	0	0
9	eL6	1239	0	1326	0	0
10	uL30	1784	0	0	0	0
11	eL8	1779	0	1858	0	0
12	uL6	1518	0	1587	0	0
13	uL16	1710	0	0	0	0
14	uL5	1353	0	1383	0	0
15	eL13	1543	0	0	0	0
16	eL14	1053	0	0	0	0
17	eL15	1720	0	0	0	0
18	uL13	1555	0	0	0	0
19	uL22	1222	0	0	0	0
20	eL18	1441	0	0	0	0
21	eL19	1409	0	0	0	0
22	eL20	1445	0	0	0	0
23	eL21	1276	0	0	0	0
24	eL22	778	0	0	0	0
25	uL14	981	0	0	0	0
26	eL24	521	0	0	0	0
27	uL23	964	0	0	0	0
28	uL24	993	0	0	0	0
29	eL27	1092	0	0	0	0
30	uL15	1173	0	0	0	0
31	eL29	462	0	0	0	0
32	eL30	742	0	0	0	0
33	eL31	883	0	0	0	0
34	eL32	1020	0	0	0	0
35	eL33	850	0	0	0	0
36	eL34	880	0	0	0	0
37	uL29	969	0	0	0	0
38	eL36	771	0	0	0	0
39	eL37	670	0	0	0	0
40	eL38	612	0	0	0	0
41	eL39	436	0	0	0	0
42	eL40	417	0	0	0	0
43	eL41	233	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
44	eL42	847	0	0	0	0
45	eL43	694	0	0	0	0
46	18S	36588	0	18412	490	0
47	uS2	1555	0	1554	0	0
48	eS1	1703	0	1979	0	0
49	uS5	1635	0	1723	0	0
50	uS3	1664	0	1743	0	0
51	eS4	2056	0	2140	0	0
52	uS7	1609	0	1675	0	0
53	eS6	1790	0	1881	0	0
54	eS7	1481	0	1572	0	0
55	eS8	1489	0	1525	0	0
56	uS4	1494	0	1573	0	0
57	eS10	772	0	0	0	0
58	uS17	1143	0	0	0	0
59	eS12	890	0	0	0	0
60	uS15	1192	0	0	0	0
61	uS11	891	0	0	0	0
62	uS19	924	0	0	0	0
63	uS9	1062	0	1118	0	0
64	eS17	961	0	0	0	0
65	uS13	1192	0	0	0	0
66	eS19	1112	0	0	0	0
67	uS10	644	0	0	0	0
68	eS21	684	0	0	0	0
69	uS8	1021	0	1060	0	0
70	uS12	1121	0	0	0	0
71	eS24	1073	0	0	0	0
72	eS25	563	0	0	0	0
73	eS26	769	0	0	0	0
74	eS27	610	0	0	0	0
75	eS28	478	0	0	0	0
76	uS14	420	0	0	0	0
77	eS30	448	0	0	0	0
78	RACK	2436	0	0	0	0
79	eS31	499	0	0	0	0
80	eEF2	6559	0	0	0	0
81	PSIT	1644	0	0	0	0
82	mRNA	65	0	0	0	0
83	uL11	672	0	0	0	0
84	18S	109	0	0	0	0
84	25S	335	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
84	58S	9	0	0	0	0
84	AB	10	0	0	0	0
84	PSIT	2	0	0	0	0
84	eEF2	4	0	0	0	0
84	eL19	1	0	0	0	0
84	eL22	1	0	0	0	0
84	eL30	2	0	0	0	0
84	eL32	2	0	0	0	0
84	eL37	1	0	0	0	0
84	eL39	1	0	0	0	0
84	eL41	1	0	0	0	0
84	eL42	1	0	0	0	0
84	eS26	1	0	0	0	0
84	eS6	1	0	0	0	0
84	uL13	2	0	0	0	0
84	uL14	1	0	0	0	0
84	uL16	2	0	0	0	0
84	uL2	2	0	0	0	0
84	uL22	1	0	0	0	0
84	uL3	1	0	0	0	0
84	uS12	3	0	0	0	0
84	uS4	1	0	0	0	0
84	uS5	1	0	0	0	0
85	eL34	1	0	0	0	0
85	eL37	1	0	0	0	0
85	eL40	1	0	0	0	0
85	eL42	1	0	0	0	0
85	eL43	1	0	0	0	0
85	eS26	1	0	0	0	0
85	eS31	1	0	0	0	0
85	uS14	1	0	0	0	0
86	eEF2	32	0	0	0	0
All	All	208056	0	89737	1285	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 15.

All (1285) 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)
46:18S:1585:U:H3	46:18S:1611:A:H2	1.11	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:1021:G:H22	1:25S:1031:C:H42	1.13	0.91
1:25S:1765:U:H6	1:25S:1765:U:H5"	1.34	0.91
46:18S:1595:U:H3	46:18S:1600:A:H2	1.11	0.90
46:18S:992:A:H2	46:18S:1012:U:H3	1.11	0.88
1:25S:2463:G:N2	1:25S:2493:U:O4	2.07	0.87
46:18S:742:U:H3'	46:18S:743:U:H5'	1.57	0.86
46:18S:1588:G:H1	46:18S:1608:U:H3	1.22	0.86
46:18S:1291:G:N2	46:18S:1324:G:H22	1.74	0.85
46:18S:811:A:O2'	46:18S:858:G:N2	2.09	0.85
1:25S:1301:A:H4'	1:25S:1302:A:H5"	1.58	0.83
46:18S:212:U:H2'	46:18S:213:A:H8	1.43	0.83
46:18S:693:U:H5'	46:18S:694:U:H5"	1.60	0.83
1:25S:1580:A:H4'	1:25S:1581:C:H5'	1.60	0.82
46:18S:61:A:O2'	46:18S:62:A:O4'	1.97	0.82
46:18S:756:A:OP2	46:18S:793:A:N6	2.13	0.82
3:58S:82:U:H2'	3:58S:83:C:H4'	1.60	0.81
46:18S:1362:U:H1'	46:18S:1363:U:H5"	1.63	0.81
1:25S:1013:G:H1	1:25S:1037:C:H42	1.27	0.79
46:18S:170:U:H3	46:18S:289:U:HO2'	1.31	0.79
1:25S:2897:A:H2'	1:25S:2899:C:H5"	1.65	0.79
46:18S:825:U:H3	46:18S:847:A:H61	1.31	0.79
46:18S:1536:G:O2'	46:18S:1537:C:O5'	2.00	0.78
1:25S:2442:G:H1	1:25S:2505:U:H3	1.31	0.78
46:18S:824:G:H1	46:18S:848:C:H42	1.28	0.78
46:18S:1615:C:H5'	46:18S:1615:C:H6	1.48	0.77
46:18S:1397:U:H3'	46:18S:1398:U:H5"	1.64	0.77
1:25S:687:U:H2'	1:25S:688:G:C8	2.20	0.77
46:18S:649:U:H3	46:18S:685:A:H61	1.33	0.77
1:25S:542:G:H1	1:25S:549:U:H3	1.33	0.77
46:18S:491:C:H42	46:18S:496:G:H1	1.32	0.76
46:18S:868:G:H1	46:18S:960:U:H3	1.34	0.76
1:25S:162:G:N2	1:25S:259:C:O2	2.18	0.75
46:18S:992:A:O2'	46:18S:1785:U:O2	2.03	0.75
46:18S:1533:C:H4'	46:18S:1539:G:N1	2.01	0.75
1:25S:2532:U:H2'	1:25S:2533:G:H8	1.50	0.75
46:18S:1620:C:H2'	46:18S:1621:U:H6	1.53	0.74
46:18S:490:C:N4	46:18S:497:G:O6	2.19	0.74
46:18S:741:C:O2'	46:18S:742:U:H5"	1.89	0.73
46:18S:812:A:H5'	46:18S:858:G:H22	1.53	0.73
1:25S:1336:U:H2'	1:25S:1337:A:H8	1.53	0.73
1:25S:161:G:N2	1:25S:261:U:O2	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:1291:G:H22	46:18S:1324:G:H1	1.37	0.72
46:18S:1229:G:O2'	46:18S:1230:A:OP2	2.07	0.72
46:18S:1220:C:H42	46:18S:1263:G:H1	1.36	0.72
46:18S:1290:U:H2'	46:18S:1291:G:C8	2.24	0.72
46:18S:477:A:N6	46:18S:540:G:O6	2.20	0.72
1:25S:495:G:O6	1:25S:618:C:N4	2.15	0.72
1:25S:1021:G:H22	1:25S:1031:C:N4	1.87	0.71
1:25S:177:U:H3	1:25S:242:C:H42	1.38	0.70
46:18S:16:G:H2'	46:18S:17:C:C6	2.26	0.70
1:25S:1765:U:H6	1:25S:1765:U:C5'	2.05	0.70
46:18S:1681:A:H2	46:18S:1720:G:H21	1.40	0.69
46:18S:1213:G:O2'	46:18S:1244:A:N6	2.25	0.69
46:18S:67:A:N6	46:18S:83:G:O2'	2.25	0.69
1:25S:2205:U:O2'	1:25S:2206:G:O4'	2.12	0.68
46:18S:1087:A:H2'	46:18S:1088:A:C8	2.28	0.68
46:18S:591:A:H2'	46:18S:592:A:C8	2.29	0.68
46:18S:742:U:H3'	46:18S:743:U:C5'	2.24	0.68
1:25S:2568:C:H1'	1:25S:2569:A:H5'	1.77	0.67
1:25S:1093:A:N3	1:25S:1096:U:N3	2.42	0.67
1:25S:1646:G:O2'	1:25S:1808:G:N2	2.24	0.67
1:25S:2836:C:H5	1:25S:2852:C:H42	1.40	0.67
1:25S:2442:G:H2'	1:25S:2443:A:C8	2.29	0.67
1:25S:2307:G:O2'	1:25S:2310:U:OP2	2.11	0.67
46:18S:1535:U:O2'	46:18S:1536:G:H5"	1.95	0.67
46:18S:1677:C:H42	46:18S:1724:U:H3	1.40	0.67
46:18S:1334:U:H3	46:18S:1417:A:H61	1.42	0.67
1:25S:3285:C:H2'	1:25S:3286:G:C8	2.30	0.66
46:18S:733:A:H2	46:18S:737:A:H61	1.42	0.66
46:18S:819:G:N7	46:18S:853:G:N2	2.43	0.66
1:25S:112:U:O2'	1:25S:113:C:OP2	2.14	0.66
46:18S:1227:A:N3	46:18S:1229:G:N2	2.33	0.66
46:18S:1056:U:H3'	46:18S:1057:U:C5'	2.25	0.66
46:18S:1482:C:OP2	46:18S:1521:G:N1	2.29	0.66
2:AB:60:G:H2'	2:AB:61:G:H8	1.61	0.66
46:18S:336:G:H2'	46:18S:338:C:H5	1.59	0.65
1:25S:3174:A:H2'	1:25S:3175:U:H5'	1.77	0.65
1:25S:2516:U:O2'	1:25S:2595:A:N6	2.29	0.65
1:25S:3216:G:N2	1:25S:3259:U:OP1	2.29	0.65
46:18S:1479:A:H2	46:18S:1528:U:H3	1.43	0.65
46:18S:1595:U:N3	46:18S:1600:A:H2	1.90	0.65
1:25S:2465:G:H22	1:25S:2491:A:H1'	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:1014:U:H3'	1:25S:1015:U:H5"	1.79	0.65
3:58S:143:U:H2'	3:58S:144:G:O4'	1.96	0.65
46:18S:1039:A:H2'	46:18S:1040:G:H8	1.62	0.65
1:25S:1196:C:H4'	1:25S:1197:A:OP1	1.97	0.64
46:18S:811:A:HO2'	46:18S:858:G:H21	1.44	0.64
46:18S:212:U:H2'	46:18S:213:A:C8	2.30	0.64
46:18S:1533:C:H4'	46:18S:1539:G:H1	1.62	0.64
1:25S:1176:C:H2'	1:25S:1177:G:N2	2.12	0.64
1:25S:2569:A:O2'	1:25S:2570:U:H5"	1.97	0.64
1:25S:2759:U:H5"	1:25S:2760:C:H5'	1.80	0.64
1:25S:3366:G:H2'	1:25S:3367:C:C6	2.33	0.64
2:AB:60:G:H2'	2:AB:61:G:C8	2.32	0.64
46:18S:1057:U:H4'	46:18S:1058:U:H5'	1.80	0.64
1:25S:1234:G:H5"	1:25S:1235:U:H5"	1.79	0.64
1:25S:3080:G:H2'	1:25S:3081:C:H6	1.61	0.64
1:25S:3153:U:H3'	1:25S:3154:C:H2'	1.79	0.64
46:18S:1060:U:O2'	46:18S:1061:A:O4'	2.16	0.63
1:25S:708:G:N2	1:25S:711:A:OP2	2.24	0.63
1:25S:1495:U:H5	1:25S:1835:A:N1	1.96	0.63
1:25S:982:C:H42	1:25S:1101:G:H1	1.45	0.63
46:18S:218:A:H2	46:18S:843:U:HO2'	1.46	0.63
1:25S:2356:A:H61	1:25S:2983:C:H5	1.46	0.63
1:25S:3195:U:O2'	1:25S:3197:G:N2	2.31	0.63
46:18S:1451:C:H2'	46:18S:1452:U:C6	2.33	0.63
1:25S:835:G:O2'	1:25S:857:G:N2	2.22	0.63
1:25S:24:G:H2'	1:25S:25:U:O4'	1.99	0.62
1:25S:1915:A:H2'	1:25S:1916:U:C6	2.35	0.62
46:18S:811:A:H2	46:18S:814:A:H62	1.47	0.62
46:18S:1564:U:H2'	46:18S:1565:C:C6	2.34	0.62
1:25S:2344:U:H2'	1:25S:2345:A:C8	2.35	0.62
1:25S:585:A:H2'	1:25S:586:C:C6	2.35	0.62
1:25S:980:A:H2'	1:25S:981:U:C2	2.34	0.62
1:25S:1096:U:H4'	1:25S:1097:G:O5'	2.00	0.62
46:18S:512:A:H61	46:18S:538:A:H8	1.47	0.62
46:18S:1695:G:H1'	46:18S:1707:A:H2	1.65	0.62
46:18S:1524:A:H2'	46:18S:1525:A:C8	2.35	0.62
1:25S:3335:A:N7	1:25S:3370:A:O2'	2.28	0.61
46:18S:800:U:H2'	46:18S:801:G:C8	2.35	0.61
1:25S:873:C:H3'	1:25S:874:U:H4'	1.83	0.61
1:25S:1278:A:H5"	1:25S:1279:C:H5	1.65	0.61
1:25S:3343:G:H21	1:25S:3362:A:H2	1.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:1560:G:O2'	1:25S:1561:G:O4'	2.12	0.61
46:18S:705:U:H2'	46:18S:706:A:C5	2.36	0.61
46:18S:1356:U:H2'	46:18S:1357:A:H8	1.65	0.61
1:25S:900:G:H1'	1:25S:1589:A:N6	2.14	0.61
46:18S:1716:C:O2'	46:18S:1717:G:O4'	2.19	0.61
46:18S:542:A:N7	46:18S:543:C:H2'	2.15	0.61
1:25S:2206:G:H2'	1:25S:2206:G:N3	2.16	0.61
1:25S:223:U:P	1:25S:224:C:H41	2.24	0.61
46:18S:142:G:H1	46:18S:172:C:H42	1.48	0.61
1:25S:1593:A:H2'	1:25S:1594:A:C8	2.36	0.60
1:25S:1814:A:H5"	1:25S:1816:A:H1'	1.82	0.60
46:18S:1392:U:H2'	46:18S:1393:C:C6	2.36	0.60
46:18S:1534:G:O2'	46:18S:1535:U:OP2	2.18	0.60
46:18S:1693:A:N6	46:18S:1709:C:O2	2.34	0.60
46:18S:1344:A:H2'	46:18S:1345:A:C8	2.36	0.60
1:25S:959:C:OP2	1:25S:960:U:H5	1.83	0.60
1:25S:2488:A:H3'	1:25S:2489:C:H5"	1.82	0.60
46:18S:1584:G:H22	46:18S:1611:A:P	2.24	0.60
1:25S:1026:A:H2'	1:25S:1027:A:O4'	2.01	0.60
3:58S:149:A:H2'	3:58S:150:G:C8	2.37	0.60
46:18S:751:G:H2'	46:18S:752:A:C8	2.37	0.60
46:18S:1171:A:H2'	46:18S:1172:G:C8	2.37	0.60
1:25S:1781:C:H2'	1:25S:1782:U:C6	2.36	0.60
1:25S:3080:G:H2'	1:25S:3081:C:C6	2.37	0.60
46:18S:488:G:O6	46:18S:499:U:O2'	2.19	0.60
1:25S:1483:G:C8	1:25S:1485:G:C8	2.90	0.60
1:25S:129:U:H2'	1:25S:130:A:C8	2.36	0.59
1:25S:2655:U:H4'	1:25S:2656:A:O4'	2.02	0.59
46:18S:1427:A:O2'	46:18S:1428:G:OP1	2.20	0.59
1:25S:3291:G:H2'	1:25S:3292:A:C8	2.38	0.59
1:25S:2885:C:O2'	1:25S:2886:U:H5'	2.03	0.59
46:18S:925:G:H2'	46:18S:926:A:H8	1.67	0.59
46:18S:1362:U:H4'	46:18S:1363:U:OP1	2.01	0.59
1:25S:761:A:C2	1:25S:771:A:H1'	2.38	0.59
1:25S:1765:U:H5"	1:25S:1765:U:C6	2.26	0.59
1:25S:655:C:H2'	1:25S:656:A:H8	1.67	0.59
1:25S:1101:G:H2'	1:25S:1102:A:H8	1.66	0.59
1:25S:3131:U:H2'	1:25S:3132:C:C6	2.37	0.59
46:18S:218:A:H5"	46:18S:830:U:H1'	1.83	0.59
1:25S:2775:U:O2'	1:25S:2777:G:N1	2.36	0.59
46:18S:491:C:H2'	46:18S:492:A:H5'	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:1101:G:H2'	1:25S:1102:A:C8	2.38	0.58
46:18S:1164:G:H2'	46:18S:1165:G:H8	1.67	0.58
46:18S:1539:G:H5'	46:18S:1539:G:H8	1.68	0.58
1:25S:3052:G:O2'	1:25S:3053:G:H5'	2.03	0.58
46:18S:1344:A:N6	46:18S:1377:U:O2'	2.35	0.58
46:18S:1694:A:H2'	46:18S:1695:G:C8	2.38	0.58
1:25S:158:G:H2'	1:25S:159:A:C8	2.38	0.58
1:25S:3302:U:H3	1:25S:3312:U:H3	1.49	0.58
46:18S:702:G:O6	46:18S:732:G:O2'	2.19	0.58
46:18S:1044:U:H2'	46:18S:1045:C:C6	2.38	0.58
1:25S:207:U:H2'	1:25S:208:C:H6	1.68	0.58
1:25S:2481:G:H3'	1:25S:2482:U:H5"	1.86	0.58
1:25S:2573:G:H2'	1:25S:2574:G:H8	1.68	0.58
1:25S:2884:C:O2	1:25S:2939:G:C2	2.57	0.58
46:18S:138:A:O4'	46:18S:140:A:H5'	2.03	0.58
46:18S:1712:A:H5"	46:18S:1713:G:H5"	1.85	0.58
1:25S:622:A:H2'	1:25S:623:U:O4'	2.04	0.58
1:25S:155:G:H5"	1:25S:156:G:C8	2.38	0.58
1:25S:655:C:H2'	1:25S:656:A:C8	2.39	0.58
46:18S:1172:G:H2'	46:18S:1173:C:C6	2.39	0.58
1:25S:1077:U:H3	1:25S:1082:U:H3	1.51	0.58
1:25S:1661:G:H2'	1:25S:1662:G:C8	2.39	0.58
1:25S:1760:A:C6	1:25S:1766:G:O6	2.57	0.58
46:18S:97:C:H1'	46:18S:426:G:H5'	1.85	0.58
46:18S:1697:G:H1'	46:18S:1705:C:H1'	1.86	0.58
1:25S:2304:C:C5	1:25S:2305:G:C6	2.92	0.57
46:18S:1410:A:H2'	46:18S:1411:A:O4'	2.03	0.57
1:25S:2592:G:H4'	1:25S:2594:C:C2	2.39	0.57
1:25S:869:G:H1	1:25S:890:C:H42	1.52	0.57
1:25S:1596:C:H2'	1:25S:1597:C:C6	2.38	0.57
1:25S:1605:A:O2'	1:25S:1607:U:OP2	2.21	0.57
46:18S:491:C:N3	46:18S:496:G:N2	2.52	0.57
3:58S:155:A:H2'	3:58S:156:U:O4'	2.05	0.57
46:18S:252:U:H2'	46:18S:253:A:C8	2.39	0.57
1:25S:874:U:H5"	1:25S:2950:G:OP1	2.05	0.57
1:25S:1583:A:H2'	1:25S:1584:U:O4'	2.04	0.57
1:25S:959:C:OP2	1:25S:960:U:C5	2.57	0.57
1:25S:2393:G:O2'	1:25S:2394:G:OP2	2.21	0.57
1:25S:3174:A:C2'	1:25S:3175:U:H5'	2.35	0.57
46:18S:138:A:O2'	46:18S:177:U:O2	2.23	0.57
46:18S:1297:G:N2	46:18S:1300:A:OP2	2.26	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:1696:A:H2'	1:25S:1697:A:C8	2.39	0.56
46:18S:925:G:H2'	46:18S:926:A:C8	2.40	0.56
46:18S:1291:G:H22	46:18S:1324:G:H22	1.46	0.56
1:25S:595:G:H2'	1:25S:596:C:H6	1.69	0.56
1:25S:528:U:H2'	1:25S:529:A:C8	2.40	0.56
1:25S:2458:A:H2'	1:25S:2459:A:H5"	1.86	0.56
1:25S:2618:G:O2'	1:25S:2865:U:OP1	2.20	0.56
1:25S:1619:A:H2'	1:25S:1620:U:O4'	2.05	0.56
1:25S:2532:U:H2'	1:25S:2533:G:C8	2.36	0.56
46:18S:696:C:OP1	46:18S:696:C:H4'	2.04	0.56
46:18S:1409:G:N2	46:18S:1411:A:H3'	2.20	0.56
46:18S:1762:A:H5'	46:18S:1762:A:H8	1.70	0.56
46:18S:1563:C:H2'	46:18S:1564:U:H6	1.70	0.56
46:18S:1525:A:H2'	46:18S:1526:A:C8	2.41	0.56
1:25S:2166:A:H2'	1:25S:2167:A:C8	2.41	0.56
46:18S:709:C:N4	46:18S:731:C:O4'	2.39	0.56
46:18S:1257:U:H3'	46:18S:1258:U:H5'	1.88	0.56
1:25S:981:U:H2'	1:25S:982:C:O4'	2.06	0.56
1:25S:1018:G:N2	1:25S:1034:U:H3	2.04	0.56
1:25S:2217:U:H2'	1:25S:2218:G:C8	2.41	0.56
1:25S:2498:C:H2'	1:25S:2499:U:C6	2.40	0.56
3:58S:37:A:H4'	3:58S:38:U:H5"	1.87	0.56
46:18S:754:A:N1	46:18S:793:A:H5'	2.21	0.56
46:18S:1314:U:O2'	46:18S:1315:U:OP2	2.24	0.56
3:58S:78:G:H2'	3:58S:79:A:C8	2.40	0.55
1:25S:2683:U:H2'	1:25S:2684:C:C6	2.41	0.55
46:18S:1409:G:N2	46:18S:1412:G:OP2	2.38	0.55
46:18S:259:U:H3'	46:18S:260:U:H5"	1.89	0.55
1:25S:650:C:H2'	1:25S:651:G:C8	2.41	0.55
1:25S:1809:A:H2'	1:25S:1810:A:O4'	2.06	0.55
1:25S:2747:A:H2'	1:25S:2748:A:C8	2.41	0.55
1:25S:618:C:C2'	1:25S:619:A:H5'	2.36	0.55
1:25S:1948:G:H2'	1:25S:1949:G:H8	1.71	0.55
46:18S:487:G:H2'	46:18S:487:G:N3	2.21	0.55
46:18S:876:G:H1'	46:18S:944:A:O4'	2.07	0.55
46:18S:1243:G:H4'	46:18S:1244:A:H3'	1.88	0.55
46:18S:1584:G:N2	46:18S:1611:A:OP2	2.32	0.55
46:18S:862:A:C2	46:18S:963:A:C4	2.94	0.55
46:18S:1251:U:H1'	46:18S:1252:C:C6	2.42	0.55
46:18S:1536:G:HO2'	46:18S:1537:C:P	2.27	0.55
1:25S:120:G:N3	1:25S:121:A:N6	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:945:C:H2'	1:25S:946:U:C6	2.42	0.55
46:18S:540:G:N2	46:18S:542:A:C8	2.74	0.55
46:18S:824:G:H21	46:18S:849:C:N4	2.04	0.55
46:18S:1353:U:H2'	46:18S:1354:G:C8	2.41	0.55
1:25S:966:U:H2'	1:25S:967:A:C8	2.42	0.55
1:25S:2504:U:H2'	1:25S:2505:U:C6	2.41	0.55
46:18S:745:U:H2'	46:18S:746:A:O4'	2.07	0.55
46:18S:1039:A:H2'	46:18S:1040:G:C8	2.41	0.55
1:25S:215:G:H2'	1:25S:216:G:H8	1.72	0.54
1:25S:1014:U:H3	1:25S:1036:A:H61	1.55	0.54
46:18S:139:C:H41	46:18S:280:U:HO2'	1.52	0.54
46:18S:1182:U:O2	46:18S:1184:A:H8	1.90	0.54
46:18S:1291:G:H22	46:18S:1324:G:N2	2.04	0.54
46:18S:1586:A:H2'	46:18S:1587:A:O4'	2.07	0.54
46:18S:1684:U:H2'	46:18S:1685:G:H8	1.72	0.54
1:25S:3222:U:H3	1:25S:3263:G:H1	1.55	0.54
46:18S:1025:A:H2'	46:18S:1027:A:H5"	1.89	0.54
46:18S:1368:G:C2	46:18S:1369:U:H1'	2.42	0.54
1:25S:254:A:H2'	1:25S:255:A:H8	1.72	0.54
1:25S:782:U:H2'	1:25S:783:A:O4'	2.07	0.54
1:25S:873:C:H5"	1:25S:874:U:O5'	2.06	0.54
1:25S:3133:C:H2'	1:25S:3134:A:O4'	2.07	0.54
46:18S:554:C:O2	46:18S:555:A:N6	2.39	0.54
46:18S:845:G:H2'	46:18S:846:G:H8	1.72	0.54
46:18S:1236:A:OP1	46:18S:1243:G:N2	2.40	0.54
1:25S:1255:C:H2'	1:25S:1256:G:H8	1.72	0.54
46:18S:924:A:H2'	46:18S:925:G:C8	2.42	0.54
46:18S:1733:C:H2'	46:18S:1734:U:C6	2.43	0.54
1:25S:2541:U:H3'	1:25S:2542:U:O4'	2.06	0.54
46:18S:1191:U:O2'	46:18S:1192:C:C6	2.59	0.54
1:25S:588:G:H4'	1:25S:589:A:C4	2.43	0.54
1:25S:1325:U:H2'	1:25S:1326:A:H8	1.72	0.54
1:25S:1336:U:H2'	1:25S:1337:A:C8	2.38	0.54
1:25S:3287:U:H2'	1:25S:3288:G:C8	2.41	0.54
1:25S:2207:A:H5"	1:25S:2208:A:H5'	1.90	0.54
46:18S:267:U:H2'	46:18S:268:C:H6	1.73	0.54
1:25S:245:U:H2'	1:25S:246:U:C5	2.43	0.54
1:25S:954:U:O4	1:25S:1115:G:H1'	2.08	0.54
1:25S:2430:A:H2'	1:25S:2431:C:C6	2.42	0.54
1:25S:2662:G:H2'	1:25S:2663:G:C8	2.42	0.54
1:25S:3279:A:H5'	1:25S:3280:U:OP2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:58S:59:A:H4'	3:58S:60:U:H5'	1.90	0.54
46:18S:487:G:C2	46:18S:488:G:H5"	2.43	0.54
46:18S:861:U:H3'	46:18S:862:A:C8	2.43	0.54
46:18S:992:A:C8	46:18S:1777:G:H1'	2.42	0.54
1:25S:49:A:C2	1:25S:279:U:H4'	2.43	0.54
1:25S:1029:G:H2'	1:25S:1030:A:C8	2.43	0.54
1:25S:2221:G:N2	1:25S:2223:A:H3'	2.23	0.54
46:18S:695:U:H3'	46:18S:696:C:H5"	1.89	0.54
46:18S:1365:C:O5'	46:18S:1365:C:H6	1.91	0.54
46:18S:1697:G:C6	46:18S:1704:U:H1'	2.43	0.54
1:25S:1118:C:O2'	1:25S:1154:A:N1	2.34	0.53
46:18S:614:C:C2	46:18S:615:A:C8	2.96	0.53
1:25S:194:U:O2	1:25S:202:G:N2	2.41	0.53
1:25S:503:C:H42	1:25S:588:G:H1	1.57	0.53
46:18S:1056:U:H3'	46:18S:1057:U:H5'	1.91	0.53
46:18S:1114:G:O2'	46:18S:1130:G:O6	2.25	0.53
46:18S:1266:U:H2'	46:18S:1267:G:C8	2.43	0.53
46:18S:1352:G:H1	46:18S:1373:C:N4	2.07	0.53
46:18S:1689:A:C6	46:18S:1712:A:N6	2.77	0.53
1:25S:146:U:H5"	1:25S:148:G:O4'	2.09	0.53
1:25S:2458:A:C6	1:25S:2460:U:H2'	2.43	0.53
1:25S:2697:A:H2'	1:25S:2698:G:C8	2.43	0.53
1:25S:3006:A:H2'	1:25S:3007:U:O4'	2.08	0.53
46:18S:1382:A:O2'	46:18S:1383:G:H5"	2.08	0.53
1:25S:2463:G:H1	1:25S:2492:C:N4	2.06	0.53
1:25S:3349:C:N3	1:25S:3350:C:N4	2.56	0.53
46:18S:1080:U:H2'	46:18S:1081:A:C1'	2.39	0.53
46:18S:1477:G:H2'	46:18S:1478:G:C8	2.44	0.53
1:25S:760:G:N2	1:25S:770:G:O2'	2.42	0.53
1:25S:1556:C:H5'	1:25S:2169:G:N2	2.24	0.53
1:25S:2444:C:H2'	1:25S:2445:A:H8	1.74	0.53
1:25S:2543:U:H2'	1:25S:2544:U:O4'	2.09	0.53
1:25S:2660:G:H2'	1:25S:2661:G:H8	1.73	0.53
46:18S:64:U:O2'	46:18S:168:A:N3	2.34	0.53
1:25S:2207:A:H5'	1:25S:2208:A:N3	2.24	0.53
1:25S:2842:U:O2'	1:25S:2843:U:OP1	2.24	0.53
46:18S:680:U:H3'	46:18S:681:U:C6	2.44	0.53
46:18S:1650:U:H2'	46:18S:1651:A:C8	2.43	0.53
1:25S:158:G:H1	1:25S:263:C:H42	1.57	0.53
1:25S:2221:G:H2'	1:25S:2223:A:OP2	2.09	0.53
46:18S:1280:C:H2'	46:18S:1281:G:C8	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:1315:U:H5"	46:18S:1329:A:C2	2.43	0.53
46:18S:1539:G:H5'	46:18S:1539:G:C8	2.43	0.53
1:25S:128:G:N1	1:25S:140:C:O2	2.40	0.52
1:25S:872:U:H2'	1:25S:873:C:C6	2.44	0.52
1:25S:1641:U:O2'	1:25S:1642:A:H3'	2.09	0.52
1:25S:2130:G:O4'	1:25S:2144:A:H4'	2.09	0.52
1:25S:958:C:H5'	1:25S:2799:A:H2'	1.92	0.52
1:25S:2102:U:H2'	1:25S:2103:U:H6	1.75	0.52
46:18S:823:G:H2'	46:18S:824:G:O4'	2.08	0.52
46:18S:1074:G:O2'	46:18S:1075:C:H5'	2.10	0.52
1:25S:158:G:N2	1:25S:264:G:H1'	2.24	0.52
1:25S:422:A:C2	1:25S:2363:A:H4'	2.45	0.52
1:25S:3126:C:H2'	1:25S:3127:A:O4'	2.09	0.52
46:18S:39:A:O2'	46:18S:40:A:OP2	2.27	0.52
46:18S:1156:C:H42	46:18S:1622:G:H1	1.55	0.52
1:25S:8:C:H2'	1:25S:9:U:O4'	2.10	0.52
1:25S:108:A:O2'	1:25S:109:A:H2'	2.09	0.52
2:AB:23:A:HO2'	2:AB:120:C:HO2'	1.56	0.52
1:25S:423:A:C6	1:25S:424:G:C6	2.97	0.52
1:25S:2573:G:H2'	1:25S:2574:G:C8	2.44	0.52
46:18S:993:A:H5"	46:18S:994:G:OP2	2.10	0.52
46:18S:1687:U:H1'	46:18S:1715:G:N2	2.24	0.52
1:25S:576:C:H2'	1:25S:577:C:C6	2.44	0.52
1:25S:1325:U:H2'	1:25S:1326:A:C8	2.45	0.52
1:25S:2446:U:H3	1:25S:2500:A:H61	1.56	0.52
1:25S:2568:C:H42	1:25S:2573:G:H1	1.57	0.52
1:25S:11:A:H2'	1:25S:12:A:C8	2.45	0.52
1:25S:1423:C:H2'	1:25S:1424:C:H6	1.75	0.52
1:25S:2542:U:H2'	1:25S:2543:U:C6	2.45	0.52
46:18S:894:U:H1'	46:18S:919:A:C2	2.44	0.52
46:18S:1353:U:H2'	46:18S:1354:G:H8	1.74	0.52
46:18S:791:A:H2'	46:18S:792:U:C6	2.44	0.52
46:18S:1451:C:H2'	46:18S:1452:U:H6	1.72	0.52
1:25S:595:G:C8	1:25S:609:G:C6	2.97	0.52
1:25S:871:U:H2'	1:25S:872:U:C6	2.45	0.52
1:25S:1471:U:H2'	1:25S:1472:U:H6	1.75	0.52
1:25S:2578:U:H2'	1:25S:2579:G:O4'	2.09	0.52
3:58S:57:C:O2'	3:58S:58:G:H5'	2.10	0.52
46:18S:145:A:O2'	46:18S:146:U:O4'	2.16	0.52
46:18S:1684:U:H2'	46:18S:1685:G:C8	2.44	0.52
1:25S:26:A:N3	1:25S:328:U:O2'	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:109:A:H4'	1:25S:110:G:OP1	2.10	0.51
1:25S:254:A:H2'	1:25S:255:A:C8	2.45	0.51
1:25S:746:A:H2'	1:25S:747:A:H8	1.76	0.51
1:25S:920:A:OP1	1:25S:922:U:H5	1.93	0.51
1:25S:516:A:O2'	1:25S:517:G:H5'	2.11	0.51
1:25S:1438:U:H2'	1:25S:1439:U:C6	2.45	0.51
46:18S:862:A:H4'	46:18S:863:A:O5'	2.10	0.51
1:25S:567:G:H2'	1:25S:568:G:C8	2.45	0.51
1:25S:1064:A:H5"	1:25S:1066:G:O4'	2.11	0.51
1:25S:2830:G:H1'	1:25S:2861:U:C2	2.46	0.51
46:18S:1738:U:H2'	46:18S:1739:C:C6	2.46	0.51
1:25S:125:C:H2'	1:25S:126:U:H6	1.75	0.51
1:25S:2217:U:H2'	1:25S:2218:G:H8	1.76	0.51
1:25S:2269:U:H5	1:25S:2271:A:H62	1.59	0.51
1:25S:2344:U:H2'	1:25S:2345:A:H8	1.76	0.51
3:58S:10:A:H2'	3:58S:11:C:C6	2.46	0.51
1:25S:1195:A:H2'	1:25S:1309:U:O2	2.10	0.51
1:25S:1806:A:H2'	1:25S:1807:G:O4'	2.11	0.51
1:25S:2635:A:N6	1:25S:2642:A:OP2	2.36	0.51
1:25S:2860:U:H2'	1:25S:2861:U:H5'	1.93	0.51
1:25S:3215:A:O2'	1:25S:3216:G:H5'	2.11	0.51
46:18S:1087:A:H2'	46:18S:1088:A:H8	1.73	0.51
1:25S:1255:C:H2'	1:25S:1256:G:C8	2.45	0.51
1:25S:3362:A:H2'	1:25S:3363:U:O4'	2.11	0.51
46:18S:130:C:N4	46:18S:202:A:OP1	2.44	0.51
46:18S:500:C:H2'	46:18S:501:U:O4'	2.11	0.51
46:18S:1407:U:H2'	46:18S:1408:G:O4'	2.11	0.51
1:25S:259:C:H2'	1:25S:260:C:O4'	2.11	0.51
1:25S:1278:A:H5'	1:25S:1279:C:OP2	2.11	0.51
1:25S:1327:C:O2'	1:25S:1328:C:H5'	2.10	0.51
1:25S:2949:U:C5	1:25S:2950:G:C6	2.99	0.51
2:AB:49:G:H4'	2:AB:50:U:C5'	2.41	0.51
3:58S:126:A:OP2	3:58S:126:A:H8	1.94	0.51
46:18S:1060:U:O2'	46:18S:1061:A:N3	2.32	0.51
46:18S:1695:G:HO2'	46:18S:1707:A:H2	1.58	0.51
1:25S:2446:U:H2'	1:25S:2447:A:C8	2.46	0.51
46:18S:607:G:H5'	46:18S:613:G:N2	2.25	0.51
1:25S:172:G:N1	1:25S:247:C:O2	2.44	0.50
1:25S:3131:U:H2'	1:25S:3132:C:H6	1.76	0.50
3:58S:16:G:O2'	3:58S:17:A:OP2	2.25	0.50
3:58S:86:U:H4'	3:58S:87:G:C8	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:66:A:H3'	1:25S:316:U:H5'	1.93	0.50
2:AB:38:U:HO2'	2:AB:40:C:H5	1.58	0.50
2:AB:48:U:H2'	2:AB:49:G:H5'	1.93	0.50
2:AB:89:G:N2	2:AB:92:A:OP2	2.45	0.50
46:18S:1406:A:H2'	46:18S:1407:U:C6	2.46	0.50
46:18S:1622:G:H2'	46:18S:1623:C:C6	2.46	0.50
46:18S:1762:A:H5'	46:18S:1762:A:C8	2.46	0.50
46:18S:646:C:H2'	46:18S:647:G:O4'	2.11	0.50
46:18S:743:U:H6	46:18S:743:U:H5"	1.76	0.50
46:18S:1434:U:O3'	46:18S:1435:G:H3'	2.12	0.50
46:18S:1689:A:N6	46:18S:1690:G:O6	2.44	0.50
1:25S:96:G:N2	1:25S:97:U:H1'	2.26	0.50
1:25S:107:A:O2'	1:25S:324:A:N3	2.43	0.50
1:25S:1740:U:C1'	1:25S:1741:A:H2	2.24	0.50
46:18S:1712:A:N6	46:18S:1713:G:N3	2.58	0.50
1:25S:1100:U:H2'	1:25S:1101:G:C8	2.47	0.50
46:18S:852:C:H2'	46:18S:853:G:O4'	2.10	0.50
1:25S:167:U:H2'	1:25S:168:U:C6	2.47	0.50
1:25S:1423:C:H2'	1:25S:1424:C:C6	2.47	0.50
1:25S:1704:A:H2'	1:25S:1705:U:C6	2.46	0.50
1:25S:2249:G:C8	1:25S:2272:G:C8	2.99	0.50
1:25S:3041:U:H2'	1:25S:3042:U:C6	2.47	0.50
46:18S:17:C:H2'	46:18S:18:C:C6	2.46	0.50
46:18S:760:A:H2'	46:18S:761:G:O4'	2.11	0.50
46:18S:1310:U:H1'	46:18S:1316:G:N2	2.27	0.50
46:18S:1553:G:N1	46:18S:1556:A:OP2	2.43	0.50
1:25S:892:U:H2'	1:25S:893:C:O4'	2.11	0.50
1:25S:1697:A:H2'	1:25S:1698:C:O4'	2.12	0.50
46:18S:1347:U:O2	46:18S:1516:A:H5'	2.12	0.50
46:18S:1713:G:H2'	46:18S:1714:A:H8	1.76	0.50
1:25S:300:G:H1	1:25S:315:C:H42	1.60	0.50
1:25S:618:C:H2'	1:25S:619:A:H5'	1.94	0.50
1:25S:1690:C:H2'	1:25S:1691:U:O4'	2.11	0.50
1:25S:2419:A:H2'	1:25S:2420:C:C6	2.46	0.50
1:25S:2568:C:N4	1:25S:2573:G:H1	2.10	0.50
46:18S:336:G:H2'	46:18S:338:C:C5	2.45	0.50
1:25S:1494:U:H4'	1:25S:1495:U:O5'	2.12	0.50
1:25S:2262:A:H5"	1:25S:2263:C:OP2	2.11	0.50
46:18S:680:U:H5"	46:18S:681:U:C5	2.47	0.50
46:18S:1087:A:H5'	46:18S:1298:U:O4	2.12	0.50
1:25S:61:A:H2'	1:25S:62:A:O4'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:776:U:H5	1:25S:2719:U:O2	1.95	0.49
1:25S:1222:G:H1'	1:25S:1285:G:N2	2.27	0.49
1:25S:1704:A:H5"	1:25S:1704:A:H8	1.76	0.49
1:25S:1899:G:O2'	1:25S:2334:U:O4	2.20	0.49
1:25S:3106:A:H2'	1:25S:3107:U:O4'	2.12	0.49
46:18S:538:A:N3	46:18S:540:G:N1	2.54	0.49
46:18S:1041:G:H2'	46:18S:1042:G:C8	2.46	0.49
46:18S:1080:U:H2'	46:18S:1081:A:H1'	1.95	0.49
46:18S:1657:U:O2'	46:18S:1658:G:OP2	2.29	0.49
1:25S:108:A:O2'	1:25S:323:A:N1	2.41	0.49
1:25S:196:G:N2	1:25S:199:A:C8	2.80	0.49
1:25S:314:U:H2'	1:25S:315:C:C6	2.47	0.49
1:25S:793:C:H2'	1:25S:794:U:O4'	2.12	0.49
1:25S:2196:C:O2'	1:25S:2270:A:N3	2.36	0.49
46:18S:1516:A:O2'	46:18S:1517:U:H5'	2.12	0.49
46:18S:1620:C:H2'	46:18S:1621:U:C6	2.39	0.49
46:18S:567:A:N1	46:18S:583:C:H1'	2.28	0.49
1:25S:695:C:H2'	1:25S:696:C:H6	1.77	0.49
46:18S:591:A:H2'	46:18S:592:A:H8	1.77	0.49
46:18S:1151:A:H2'	46:18S:1152:A:C8	2.47	0.49
46:18S:1409:G:O2'	46:18S:1411:A:N7	2.37	0.49
46:18S:1534:G:HO2'	46:18S:1535:U:P	2.35	0.49
46:18S:1542:G:N2	46:18S:1568:C:H1'	2.28	0.49
1:25S:162:G:N2	1:25S:260:C:H1'	2.27	0.49
1:25S:958:C:OP1	1:25S:2799:A:H3'	2.12	0.49
1:25S:1348:U:H4'	1:25S:1349:G:OP1	2.11	0.49
1:25S:2254:U:H2'	1:25S:2261:G:N2	2.27	0.49
46:18S:31:C:O2'	46:18S:547:U:OP1	2.24	0.49
1:25S:1011:A:H61	1:25S:1039:U:H3	1.61	0.49
1:25S:2268:U:H2'	1:25S:2269:U:O4'	2.12	0.49
46:18S:771:A:H3'	46:18S:772:G:H8	1.78	0.49
1:25S:543:C:O2	1:25S:548:G:N1	2.46	0.49
1:25S:801:A:H4'	1:25S:802:C:H5"	1.94	0.49
46:18S:403:G:H8	46:18S:403:G:P	2.36	0.49
46:18S:486:G:H2'	46:18S:487:G:O4'	2.13	0.49
46:18S:490:C:C4	46:18S:498:G:C6	3.01	0.49
46:18S:1371:A:C2	46:18S:1373:C:H5"	2.48	0.49
46:18S:1688:U:H2'	46:18S:1689:A:C8	2.48	0.49
1:25S:3156:U:H4'	1:25S:3156:U:OP1	2.11	0.49
46:18S:94:U:C5	46:18S:94:U:N1	2.80	0.49
46:18S:216:U:H5"	46:18S:217:A:OP1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:1563:C:H2'	46:18S:1564:U:C6	2.47	0.49
1:25S:125:C:H2'	1:25S:126:U:C6	2.47	0.49
1:25S:1063:G:N7	1:25S:1097:G:O2'	2.34	0.49
1:25S:2581:U:H2'	1:25S:2582:C:C6	2.48	0.49
1:25S:687:U:H2'	1:25S:688:G:H8	1.74	0.48
1:25S:1313:G:O2'	1:25S:1314:C:H5'	2.13	0.48
1:25S:2443:A:H61	1:25S:2504:U:H3	1.61	0.48
46:18S:156:A:H2'	46:18S:157:A:O4'	2.13	0.48
46:18S:654:C:H2'	46:18S:655:G:O4'	2.13	0.48
1:25S:67:A:N6	1:25S:271:C:O2'	2.47	0.48
3:58S:63:G:N2	3:58S:98:U:O2	2.44	0.48
46:18S:518:A:O2'	46:18S:534:A:N6	2.42	0.48
46:18S:872:G:H2'	46:18S:873:U:O4'	2.13	0.48
46:18S:1187:U:O2'	46:18S:1188:G:H5'	2.12	0.48
1:25S:865:U:OP2	1:25S:893:C:N4	2.41	0.48
1:25S:1381:A:C2	1:25S:1426:C:C2	3.01	0.48
46:18S:486:G:C2	46:18S:487:G:H1'	2.48	0.48
46:18S:1323:C:H2'	46:18S:1324:G:O4'	2.13	0.48
46:18S:1672:G:H2'	46:18S:1673:G:C8	2.48	0.48
1:25S:18:G:H2'	1:25S:19:U:O4'	2.13	0.48
1:25S:127:G:H2'	1:25S:128:G:C8	2.49	0.48
1:25S:209:A:H4'	1:25S:211:A:C8	2.48	0.48
1:25S:627:U:H2'	1:25S:628:A:C8	2.48	0.48
1:25S:1239:C:H2'	1:25S:1240:A:O4'	2.13	0.48
1:25S:1396:C:H2'	1:25S:1397:C:H6	1.79	0.48
2:AB:41:G:C2	2:AB:45:A:C2	3.01	0.48
46:18S:1535:U:H1'	46:18S:1536:G:C2	2.47	0.48
1:25S:435:C:H42	1:25S:624:G:H1	1.62	0.48
1:25S:1614:C:H2'	1:25S:1615:C:H6	1.77	0.48
1:25S:2407:C:H2'	1:25S:2408:U:C6	2.49	0.48
1:25S:3081:C:H2'	1:25S:3082:C:H6	1.79	0.48
46:18S:404:G:H2'	46:18S:405:C:C6	2.48	0.48
46:18S:901:G:C6	46:18S:902:G:C6	3.01	0.48
46:18S:1087:A:C2	46:18S:1142:A:H4'	2.49	0.48
1:25S:209:A:H4'	1:25S:211:A:N7	2.28	0.48
1:25S:343:U:H4'	1:25S:344:A:OP2	2.14	0.48
1:25S:1128:U:H2'	1:25S:1129:A:O4'	2.13	0.48
1:25S:1317:A:O2'	1:25S:1318:A:H3'	2.12	0.48
46:18S:246:G:C6	46:18S:247:A:C6	3.02	0.48
46:18S:1087:A:H2	46:18S:1142:A:H4'	1.79	0.48
46:18S:1169:G:O6	46:18S:1574:G:H8	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:407:A:C2	3:58S:17:A:H1'	2.49	0.48
1:25S:2418:G:H4'	1:25S:2419:A:OP2	2.10	0.48
1:25S:2677:G:H2'	1:25S:2677:G:N3	2.29	0.48
1:25S:2814:G:O2'	1:25S:2815:G:H5'	2.13	0.48
46:18S:40:A:C2	46:18S:469:C:C6	3.02	0.48
46:18S:443:C:C2	46:18S:462:G:N2	2.82	0.48
46:18S:682:C:H2'	46:18S:683:C:O4'	2.13	0.48
46:18S:1515:A:H4'	46:18S:1517:U:H5	1.79	0.48
1:25S:1176:C:H2'	1:25S:1177:G:H21	1.79	0.48
1:25S:1228:C:H2'	1:25S:1229:G:H8	1.78	0.48
1:25S:1912:U:C4	1:25S:1913:A:C6	3.02	0.48
1:25S:3297:U:O5'	1:25S:3297:U:H6	1.96	0.48
46:18S:61:A:H8	46:18S:269:G:HO2'	1.59	0.48
46:18S:97:C:H1'	46:18S:426:G:C5'	2.43	0.48
46:18S:182:A:H61	46:18S:202:A:H61	1.60	0.48
46:18S:1633:A:H4'	46:18S:1634:C:O5'	2.13	0.48
1:25S:3:U:C2	3:58S:157:U:H1'	2.49	0.48
1:25S:1307:G:C2	1:25S:1308:A:C2	3.01	0.48
1:25S:2192:C:H2'	1:25S:2193:U:O4'	2.14	0.48
46:18S:1651:A:H8	46:18S:1651:A:OP2	1.97	0.48
1:25S:619:A:H4'	1:25S:620:U:C6	2.49	0.48
1:25S:1385:C:N3	1:25S:1387:G:C8	2.82	0.48
1:25S:1618:G:H4'	3:58S:129:C:H1'	1.96	0.48
1:25S:2146:C:C2'	1:25S:2147:A:H5'	2.44	0.48
1:25S:913:A:H2	1:25S:2134:G:N3	2.12	0.47
1:25S:1872:C:H2'	1:25S:1873:U:H6	1.78	0.47
1:25S:2536:A:H2'	1:25S:2537:U:C6	2.49	0.47
46:18S:1521:G:O2'	46:18S:1523:G:OP2	2.20	0.47
1:25S:358:G:N2	1:25S:361:A:OP2	2.47	0.47
1:25S:1616:U:H2'	1:25S:1617:G:C8	2.49	0.47
1:25S:1632:A:H2'	1:25S:1633:C:C6	2.49	0.47
1:25S:2261:G:O2'	1:25S:2263:C:N4	2.46	0.47
3:58S:142:C:H2'	3:58S:143:U:C6	2.49	0.47
46:18S:5:U:H2'	46:18S:6:G:H8	1.79	0.47
46:18S:259:U:C3'	46:18S:260:U:H5"	2.44	0.47
46:18S:1545:A:C2	46:18S:1567:U:C2	3.02	0.47
1:25S:276:U:H2'	1:25S:277:G:C8	2.49	0.47
1:25S:953:G:O2'	1:25S:1116:G:H5'	2.14	0.47
1:25S:1208:U:O2	1:25S:3115:C:N4	2.47	0.47
1:25S:2778:G:O2'	1:25S:2779:A:H5'	2.14	0.47
46:18S:827:C:N3	46:18S:845:G:N2	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:1215:C:OP1	46:18S:1246:C:H4'	2.13	0.47
46:18S:1508:U:H2'	46:18S:1509:C:C6	2.49	0.47
1:25S:548:G:H2'	1:25S:549:U:O4'	2.15	0.47
1:25S:831:G:O2'	1:25S:1864:A:N3	2.36	0.47
1:25S:1481:A:H5'	1:25S:1481:A:H8	1.79	0.47
1:25S:1948:G:H2'	1:25S:1949:G:C8	2.50	0.47
1:25S:2385:G:N7	1:25S:3143:C:O2'	2.41	0.47
1:25S:2463:G:H1	1:25S:2492:C:H42	1.60	0.47
1:25S:3105:U:OP2	1:25S:3128:G:N1	2.31	0.47
1:25S:3154:C:H3'	1:25S:3154:C:OP2	2.14	0.47
46:18S:1371:A:H2	46:18S:1373:C:H5"	1.79	0.47
1:25S:590:G:N7	1:25S:591:G:C6	2.82	0.47
1:25S:1468:A:N6	1:25S:1508:C:O2	2.48	0.47
1:25S:1604:G:H3'	1:25S:1604:G:N3	2.28	0.47
1:25S:2660:G:H2'	1:25S:2661:G:C8	2.49	0.47
46:18S:445:A:H2'	46:18S:446:A:H8	1.80	0.47
46:18S:705:U:H2'	46:18S:706:A:N7	2.29	0.47
1:25S:9:U:H2'	1:25S:10:C:O4'	2.14	0.47
1:25S:595:G:H2'	1:25S:596:C:C6	2.49	0.47
1:25S:2499:U:H2'	1:25S:2500:A:C8	2.49	0.47
1:25S:2661:G:H2'	1:25S:2662:G:C8	2.49	0.47
46:18S:1351:G:C2	46:18S:1375:A:C2	3.02	0.47
46:18S:1483:A:H2'	46:18S:1484:G:C8	2.49	0.47
1:25S:816:A:H1'	1:25S:819:U:O4	2.14	0.47
1:25S:900:G:H1'	1:25S:1589:A:H61	1.80	0.47
1:25S:979:U:H6	1:25S:979:U:H2'	1.56	0.47
1:25S:1301:A:H4'	1:25S:1302:A:C5'	2.38	0.47
1:25S:2567:C:O2'	1:25S:2568:C:H5'	2.13	0.47
1:25S:3060:C:H1'	1:25S:3332:U:H1'	1.96	0.47
2:AB:49:G:H4'	2:AB:50:U:O5'	2.14	0.47
46:18S:503:G:H2'	46:18S:504:U:C6	2.49	0.47
46:18S:748:U:O2'	46:18S:749:U:H5'	2.15	0.47
46:18S:1146:G:C6	46:18S:1147:A:C6	3.02	0.47
46:18S:1174:C:C2	46:18S:1466:G:N2	2.82	0.47
46:18S:1201:G:H22	46:18S:1600:A:C5'	2.28	0.47
46:18S:1688:U:H3	46:18S:1713:G:H1	1.62	0.47
1:25S:246:U:H6	1:25S:246:U:O5'	1.98	0.47
1:25S:438:A:H1'	1:25S:619:A:C2	2.50	0.47
1:25S:664:U:H2'	1:25S:665:A:C8	2.50	0.47
1:25S:1081:U:HO2'	1:25S:1082:U:P	2.38	0.47
1:25S:1203:A:N6	1:25S:1300:G:H2'	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:743:U:H5"	46:18S:743:U:C6	2.49	0.47
46:18S:1147:A:H2'	46:18S:1148:C:C6	2.49	0.47
46:18S:1225:U:O2	46:18S:1230:A:O2'	2.18	0.47
1:25S:576:C:H2'	1:25S:577:C:H6	1.79	0.47
1:25S:1104:G:P	1:25S:1104:G:H8	2.38	0.47
1:25S:1675:G:H2'	1:25S:1676:A:C8	2.50	0.47
1:25S:2448:G:H2'	1:25S:2449:A:H8	1.80	0.47
46:18S:51:A:OP2	46:18S:424:C:N4	2.47	0.47
46:18S:1320:U:O2	46:18S:1322:A:H5'	2.15	0.47
1:25S:184:U:H2'	1:25S:185:C:C6	2.50	0.47
1:25S:2101:C:H2'	1:25S:2102:U:C6	2.50	0.47
1:25S:2307:G:H4'	1:25S:2308:C:OP2	2.14	0.47
1:25S:3235:C:C4	1:25S:3236:U:C4	3.02	0.47
46:18S:453:U:O2	46:18S:453:U:H2'	2.13	0.47
46:18S:1087:A:H5'	46:18S:1298:U:C4	2.50	0.47
1:25S:3267:A:O2'	1:25S:3268:A:H5'	2.15	0.46
2:AB:57:G:H3'	2:AB:58:C:H6	1.80	0.46
46:18S:538:A:C2	46:18S:540:G:N1	2.82	0.46
46:18S:1612:U:H2'	46:18S:1613:U:H5'	1.97	0.46
1:25S:112:U:O2'	1:25S:113:C:P	2.73	0.46
1:25S:536:U:H1'	1:25S:559:A:C8	2.51	0.46
1:25S:614:C:H2'	1:25S:615:U:H6	1.80	0.46
1:25S:1943:C:OP1	1:25S:3346:U:H1'	2.14	0.46
1:25S:3016:A:H2'	1:25S:3017:A:C8	2.50	0.46
46:18S:333:A:H5"	46:18S:334:G:OP2	2.14	0.46
46:18S:1053:G:C2	46:18S:1054:U:C5	3.04	0.46
46:18S:1066:C:H2'	46:18S:1067:C:H6	1.80	0.46
46:18S:1715:G:O6	46:18S:1716:C:N4	2.47	0.46
1:25S:676:G:O2'	1:25S:678:G:O2'	2.33	0.46
1:25S:2101:C:H2'	1:25S:2102:U:H6	1.80	0.46
46:18S:472:U:H2'	46:18S:473:A:C8	2.51	0.46
46:18S:538:A:C8	46:18S:543:C:N4	2.84	0.46
46:18S:1514:U:H5"	46:18S:1515:A:O4'	2.15	0.46
1:25S:1532:C:H2'	1:25S:1533:U:C6	2.51	0.46
1:25S:2947:G:OP2	1:25S:2947:G:H4'	2.14	0.46
46:18S:261:U:H6	46:18S:261:U:H2'	1.55	0.46
46:18S:855:A:C2	46:18S:857:U:H1'	2.50	0.46
46:18S:894:U:H2'	46:18S:895:G:C8	2.51	0.46
46:18S:1397:U:C3'	46:18S:1398:U:H5"	2.41	0.46
46:18S:1736:G:H2'	46:18S:1737:G:H8	1.81	0.46
1:25S:746:A:H2'	1:25S:747:A:C8	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:2369:G:H2'	1:25S:2370:G:C8	2.51	0.46
1:25S:2373:A:N3	1:25S:2824:G:O2'	2.41	0.46
46:18S:337:G:OP2	46:18S:338:C:N4	2.41	0.46
46:18S:491:C:N4	46:18S:496:G:H1	2.07	0.46
46:18S:1360:A:C2	46:18S:1361:U:H1'	2.51	0.46
46:18S:1639:C:H2'	46:18S:1640:C:O4'	2.15	0.46
1:25S:66:A:H2	1:25S:77:A:O3'	1.99	0.46
1:25S:370:U:H4'	1:25S:404:G:H5'	1.97	0.46
1:25S:1555:U:H5	1:25S:1557:A:N7	2.13	0.46
1:25S:1813:A:H4'	1:25S:1813:A:OP1	2.16	0.46
1:25S:3393:U:H2'	1:25S:3394:U:C6	2.51	0.46
46:18S:1151:A:H4'	46:18S:1766:A:N7	2.31	0.46
46:18S:1278:G:H2'	46:18S:1279:C:O4'	2.15	0.46
1:25S:5:G:C6	3:58S:155:A:C2	3.04	0.46
1:25S:17:G:H2'	1:25S:18:G:O4'	2.16	0.46
1:25S:139:G:H2'	1:25S:140:C:O4'	2.16	0.46
1:25S:1012:G:N2	1:25S:1039:U:H1'	2.30	0.46
1:25S:1104:G:H2'	1:25S:1105:A:H8	1.81	0.46
1:25S:1556:C:H5'	1:25S:2169:G:C2	2.50	0.46
1:25S:3159:C:H2'	1:25S:3160:U:O4'	2.15	0.46
46:18S:424:C:H4'	46:18S:426:G:OP1	2.16	0.46
46:18S:427:C:O2'	46:18S:459:G:N3	2.36	0.46
46:18S:1091:A:H4'	46:18S:1092:A:O4'	2.16	0.46
46:18S:1215:C:H2'	46:18S:1216:C:C6	2.51	0.46
1:25S:959:C:H5"	1:25S:960:U:H5'	1.97	0.46
1:25S:1012:G:H22	1:25S:1039:U:H1'	1.81	0.46
1:25S:1355:A:H4'	1:25S:1356:U:H5"	1.98	0.46
1:25S:1509:A:H8	1:25S:1509:A:O5'	1.99	0.46
2:AB:3:U:H2'	2:AB:4:U:C6	2.49	0.46
46:18S:63:G:H4'	46:18S:170:U:C5	2.51	0.46
46:18S:1500:C:H42	46:18S:1507:G:H1	1.64	0.46
1:25S:240:U:H1'	1:25S:241:G:H5"	1.98	0.46
1:25S:2454:G:N2	1:25S:2483:G:O2'	2.45	0.46
1:25S:2971:A:H8	1:25S:2971:A:O5'	1.98	0.46
1:25S:3151:U:H4'	1:25S:3294:A:H1'	1.97	0.46
1:25S:3331:U:H2'	1:25S:3332:U:O4'	2.16	0.46
46:18S:41:A:H2'	46:18S:438:A:H62	1.81	0.46
46:18S:587:C:C4	46:18S:588:U:C4	3.04	0.46
46:18S:735:C:O2'	46:18S:736:C:OP2	2.27	0.46
46:18S:934:C:C4	46:18S:1077:C:H4'	2.51	0.46
46:18S:1388:A:H5'	46:18S:1389:C:C6	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:589:A:H1'	1:25S:1337:A:H5"	1.98	0.46
1:25S:951:A:C4	1:25S:1369:A:C2	3.04	0.46
1:25S:1078:U:H1'	1:25S:1082:U:O2	2.15	0.46
1:25S:2485:A:H5'	1:25S:2486:A:OP2	2.16	0.46
1:25S:3236:U:H2'	1:25S:3237:U:C6	2.51	0.46
46:18S:564:G:N1	46:18S:580:A:OP2	2.43	0.46
46:18S:698:U:H2'	46:18S:699:U:C5	2.51	0.46
46:18S:1380:U:H2'	46:18S:1381:U:C6	2.51	0.46
46:18S:1449:U:H2'	46:18S:1450:U:C6	2.51	0.46
1:25S:1461:A:H2'	1:25S:1462:A:H8	1.82	0.45
1:25S:1656:A:H4'	1:25S:1657:C:O5'	2.16	0.45
1:25S:3376:A:H3'	1:25S:3377:G:H5"	1.98	0.45
46:18S:452:A:H3'	46:18S:453:U:C5	2.51	0.45
46:18S:980:G:H4'	46:18S:1776:A:H4'	1.98	0.45
46:18S:1561:U:H4'	46:18S:1599:C:H4'	1.97	0.45
1:25S:160:G:C2	1:25S:262:U:O2	2.69	0.45
1:25S:181:U:H2'	1:25S:182:U:O4'	2.16	0.45
1:25S:230:U:H2'	1:25S:231:G:O4'	2.16	0.45
1:25S:975:C:H2'	1:25S:976:U:C6	2.52	0.45
1:25S:1615:C:H2'	1:25S:1616:U:C6	2.51	0.45
1:25S:2911:A:H4'	1:25S:2912:G:C8	2.51	0.45
1:25S:3266:G:C6	1:25S:3267:A:C6	3.04	0.45
46:18S:476:U:H5"	46:18S:477:A:O4'	2.16	0.45
46:18S:778:G:N2	46:18S:783:G:C6	2.83	0.45
1:25S:32:U:H2'	1:25S:33:G:O4'	2.16	0.45
1:25S:90:C:H2'	1:25S:91:G:H5'	1.97	0.45
1:25S:222:A:C6	1:25S:223:U:C4	3.04	0.45
1:25S:3084:C:H2'	1:25S:3085:G:O4'	2.17	0.45
3:58S:154:C:H2'	3:58S:155:A:O4'	2.17	0.45
46:18S:783:G:N2	46:18S:784:C:C2	2.85	0.45
46:18S:814:A:H2'	46:18S:814:A:N3	2.32	0.45
1:25S:153:U:O3'	1:25S:158:G:H4'	2.17	0.45
1:25S:653:A:C2	1:25S:1443:G:C4	3.05	0.45
1:25S:799:G:H2'	1:25S:801:A:N7	2.30	0.45
1:25S:1018:G:H21	1:25S:1034:U:H3	1.65	0.45
1:25S:1523:U:OP1	1:25S:1607:U:N3	2.49	0.45
1:25S:2152:A:H2'	1:25S:2153:U:H6	1.80	0.45
1:25S:3079:U:O5'	1:25S:3079:U:H6	1.99	0.45
2:AB:59:U:H2'	2:AB:60:G:C8	2.51	0.45
46:18S:260:U:H3'	46:18S:261:U:C5'	2.47	0.45
46:18S:619:A:N3	46:18S:1141:G:H1'	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:920:U:H2'	46:18S:921:U:O4'	2.17	0.45
46:18S:985:G:H2'	46:18S:986:G:O4'	2.16	0.45
46:18S:1291:G:H21	46:18S:1324:G:H22	1.57	0.45
46:18S:1321:A:H4'	46:18S:1322:A:O5'	2.16	0.45
46:18S:1348:A:H61	46:18S:1377:U:H3	1.65	0.45
46:18S:1372:U:O2	46:18S:1373:C:N4	2.49	0.45
46:18S:1458:G:H3'	46:18S:1459:C:C5	2.52	0.45
1:25S:59:G:H2'	3:58S:33:A:O2'	2.16	0.45
1:25S:327:A:H2'	1:25S:328:U:O4'	2.17	0.45
1:25S:1820:U:H4'	1:25S:1821:U:O5'	2.15	0.45
1:25S:2205:U:HO2'	1:25S:2206:G:H8	1.62	0.45
1:25S:3045:G:H2'	1:25S:3046:A:O4'	2.16	0.45
46:18S:895:G:H1	46:18S:917:U:H3	1.65	0.45
46:18S:1080:U:H2'	46:18S:1081:A:O4'	2.16	0.45
46:18S:1388:A:N6	46:18S:1409:G:H1'	2.32	0.45
1:25S:1081:U:O2'	1:25S:1082:U:OP2	2.32	0.45
1:25S:1685:C:H2'	1:25S:1686:U:O4'	2.17	0.45
1:25S:2378:C:H2'	1:25S:2379:U:C6	2.52	0.45
1:25S:3191:G:C6	1:25S:3192:U:C4	3.05	0.45
1:25S:3281:U:H2'	1:25S:3282:U:C6	2.52	0.45
3:58S:18:U:H2'	3:58S:19:C:H6	1.81	0.45
46:18S:267:U:H2'	46:18S:268:C:C6	2.50	0.45
46:18S:274:G:N2	46:18S:283:U:H1'	2.32	0.45
46:18S:1015:U:H5"	46:18S:1016:C:OP2	2.17	0.45
46:18S:1164:G:H2'	46:18S:1165:G:C8	2.50	0.45
1:25S:168:U:H2'	1:25S:169:U:C6	2.52	0.45
1:25S:419:G:H8	1:25S:419:G:O5'	2.00	0.45
1:25S:869:G:H1	1:25S:890:C:N4	2.14	0.45
1:25S:1701:C:H2'	1:25S:1702:U:O4'	2.16	0.45
1:25S:2336:U:H2'	1:25S:2337:C:H6	1.82	0.45
1:25S:2342:U:H2'	1:25S:2343:C:H6	1.80	0.45
1:25S:2585:G:H5"	3:58S:151:C:C4	2.51	0.45
1:25S:2585:G:H5"	3:58S:151:C:N4	2.32	0.45
1:25S:3010:U:O2'	1:25S:3011:A:H2'	2.17	0.45
46:18S:45:U:C2	46:18S:436:A:N6	2.85	0.45
46:18S:861:U:H5'	46:18S:862:A:OP2	2.17	0.45
46:18S:1525:A:C6	46:18S:1526:A:C6	3.04	0.45
1:25S:2117:A:H2'	1:25S:2118:C:O4'	2.17	0.45
1:25S:2726:C:O2'	1:25S:2727:A:H2'	2.17	0.45
1:25S:2822:U:H2'	1:25S:2823:G:O4'	2.17	0.45
1:25S:3052:G:H2'	1:25S:3053:G:C8	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:3393:U:H2'	1:25S:3394:U:H6	1.81	0.45
46:18S:1472:C:H4'	46:18S:1473:U:H5'	1.99	0.45
1:25S:158:G:H1	1:25S:263:C:N4	2.15	0.45
1:25S:261:U:H2'	1:25S:262:U:C6	2.52	0.45
1:25S:2152:A:H2'	1:25S:2153:U:C6	2.52	0.45
1:25S:2507:C:H2'	1:25S:2508:U:C6	2.52	0.45
1:25S:2776:C:H5"	1:25S:2777:G:O5'	2.16	0.45
1:25S:2943:G:H2'	1:25S:2944:U:O4'	2.16	0.45
1:25S:3208:G:H4'	1:25S:3209:A:O5'	2.17	0.45
46:18S:116:U:H2'	46:18S:117:U:C6	2.52	0.45
46:18S:1201:G:H22	46:18S:1600:A:H5'	1.80	0.45
46:18S:1396:U:H5"	46:18S:1397:U:OP2	2.17	0.45
1:25S:214:G:H1	1:25S:226:C:H42	1.65	0.45
1:25S:855:U:H2'	1:25S:856:G:O4'	2.17	0.45
1:25S:908:G:H4'	1:25S:909:G:O5'	2.17	0.45
1:25S:1094:U:H3'	1:25S:1095:U:H3'	1.99	0.45
2:AB:113:C:H2'	2:AB:114:U:O4'	2.17	0.45
46:18S:59:C:O2'	46:18S:60:U:OP2	2.25	0.45
46:18S:842:C:H2'	46:18S:843:U:O4'	2.17	0.45
46:18S:1671:A:H2'	46:18S:1672:G:O4'	2.17	0.45
46:18S:1727:G:H2'	46:18S:1728:A:C8	2.51	0.45
1:25S:172:G:C6	1:25S:173:G:C5	3.05	0.44
1:25S:759:U:H2'	1:25S:760:G:H5'	1.99	0.44
1:25S:869:G:O2'	1:25S:870:G:H5'	2.17	0.44
1:25S:1155:C:O2'	1:25S:1197:A:N1	2.40	0.44
1:25S:1840:U:H4'	1:25S:1841:A:H5"	1.98	0.44
1:25S:1902:G:O2'	1:25S:2337:C:H4'	2.17	0.44
1:25S:2463:G:H22	1:25S:2492:C:N4	2.14	0.44
1:25S:2510:U:H2'	1:25S:2511:A:C8	2.52	0.44
1:25S:2696:A:H2'	1:25S:2697:A:C8	2.51	0.44
1:25S:3366:G:H2'	1:25S:3367:C:H6	1.82	0.44
2:AB:24:A:H2'	2:AB:25:G:O4'	2.17	0.44
46:18S:827:C:H42	46:18S:845:G:H1	1.63	0.44
46:18S:1373:C:H2'	46:18S:1374:C:C6	2.52	0.44
46:18S:1489:U:H2'	46:18S:1514:U:O4	2.18	0.44
1:25S:2778:G:C2'	1:25S:2779:A:H5'	2.46	0.44
46:18S:861:U:O2	46:18S:861:U:H2'	2.17	0.44
46:18S:1557:U:O2'	46:18S:1558:U:H2'	2.17	0.44
46:18S:1796:C:H5'	46:18S:1797:A:C8	2.53	0.44
1:25S:167:U:H2'	1:25S:168:U:H6	1.81	0.44
1:25S:232:G:H2'	1:25S:233:C:O4'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:527:A:C5	1:25S:528:U:C4	3.05	0.44
1:25S:695:C:H2'	1:25S:696:C:C6	2.51	0.44
1:25S:1094:U:H3'	1:25S:1096:U:OP1	2.16	0.44
1:25S:1591:G:H2'	1:25S:1592:G:H5'	1.99	0.44
1:25S:1748:G:H3'	1:25S:1749:A:H2'	2.00	0.44
1:25S:2108:C:H1'	1:25S:3344:A:N3	2.32	0.44
1:25S:2498:C:H2'	1:25S:2499:U:H6	1.79	0.44
1:25S:2842:U:HO2'	1:25S:2843:U:P	2.40	0.44
46:18S:901:G:N1	46:18S:902:G:O6	2.50	0.44
46:18S:1304:G:H5'	46:18S:1322:A:OP2	2.18	0.44
46:18S:1614:A:C3'	46:18S:1615:C:H5"	2.47	0.44
1:25S:2761:G:C4	1:25S:2795:U:C5	3.05	0.44
2:AB:3:U:H2'	2:AB:4:U:H6	1.81	0.44
46:18S:1080:U:H3'	46:18S:1080:U:H6	1.82	0.44
1:25S:66:A:N1	1:25S:77:A:H5"	2.32	0.44
1:25S:355:A:H2'	1:25S:356:C:O4'	2.18	0.44
1:25S:1602:A:C5	1:25S:1603:A:C6	3.06	0.44
1:25S:1765:U:C6	1:25S:1765:U:OP2	2.70	0.44
1:25S:3087:A:O5'	1:25S:3087:A:H8	2.00	0.44
1:25S:3116:G:N3	1:25S:3116:G:H5"	2.32	0.44
1:25S:3295:A:H2'	1:25S:3296:A:C8	2.52	0.44
3:58S:102:U:H2'	3:58S:103:G:C8	2.53	0.44
46:18S:532:U:H2'	46:18S:533:U:O4'	2.17	0.44
46:18S:1142:A:H2'	46:18S:1143:A:O4'	2.17	0.44
46:18S:1657:U:H4'	46:18S:1658:G:O5'	2.18	0.44
46:18S:1755:A:H2'	46:18S:1756:A:H5'	1.99	0.44
46:18S:1755:A:H8	46:18S:1755:A:OP2	2.01	0.44
1:25S:283:G:O6	1:25S:304:G:H1'	2.18	0.44
1:25S:1481:A:C4	1:25S:1859:A:C8	3.05	0.44
1:25S:1940:G:H2'	1:25S:1941:C:O4'	2.17	0.44
1:25S:2689:A:H2'	1:25S:2689:A:N3	2.32	0.44
1:25S:3000:A:H2'	1:25S:3001:C:H6	1.83	0.44
1:25S:3073:A:H2'	1:25S:3074:G:O4'	2.18	0.44
3:58S:145:U:H2'	3:58S:146:U:C6	2.52	0.44
46:18S:1125:A:C5	46:18S:1126:G:H1'	2.52	0.44
46:18S:1326:A:H2'	46:18S:1327:C:C6	2.53	0.44
1:25S:694:C:H2'	1:25S:695:C:C6	2.52	0.44
1:25S:735:A:H2'	1:25S:736:A:C8	2.53	0.44
1:25S:777:U:H2'	1:25S:778:U:H6	1.83	0.44
1:25S:999:G:O2'	1:25S:1000:C:H5'	2.17	0.44
1:25S:1191:U:H4'	1:25S:1192:C:OP2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:2460:U:O2'	1:25S:2461:A:H5'	2.17	0.44
1:25S:2714:G:C6	1:25S:2740:A:N6	2.86	0.44
1:25S:3223:A:H2'	1:25S:3224:G:O4'	2.18	0.44
1:25S:3338:C:H2'	1:25S:3339:A:O4'	2.18	0.44
3:58S:106:C:H4'	3:58S:107:G:H5"	1.99	0.44
46:18S:706:A:O2'	46:18S:707:A:O4'	2.32	0.44
46:18S:1092:A:O2'	46:18S:1093:A:H3'	2.17	0.44
46:18S:1615:C:H5'	46:18S:1615:C:C6	2.38	0.44
1:25S:527:A:H2'	1:25S:528:U:C6	2.52	0.44
1:25S:1100:U:H2'	1:25S:1101:G:H8	1.82	0.44
1:25S:1658:G:H2'	1:25S:1659:U:O4'	2.17	0.44
1:25S:2146:C:H2'	1:25S:2147:A:H5'	2.00	0.44
1:25S:2836:C:O2	1:25S:2836:C:O4'	2.35	0.44
1:25S:3366:G:C6	1:25S:3367:C:N4	2.86	0.44
2:AB:1:G:H2'	2:AB:2:G:H8	1.83	0.44
46:18S:139:C:N4	46:18S:280:U:HO2'	2.15	0.44
46:18S:1352:G:N2	46:18S:1374:C:N3	2.66	0.44
46:18S:1621:U:C4	46:18S:1622:G:N7	2.86	0.44
1:25S:171:G:C2	1:25S:172:G:C8	3.05	0.44
1:25S:1581:C:O2'	1:25S:1582:C:H2'	2.18	0.44
1:25S:2342:U:H2'	1:25S:2343:C:C6	2.52	0.44
46:18S:484:C:H42	46:18S:503:G:H1	1.65	0.44
46:18S:647:G:N2	46:18S:687:G:H1	2.16	0.44
1:25S:241:G:C6	1:25S:242:C:C4	3.06	0.43
1:25S:278:U:H2'	1:25S:279:U:O4'	2.18	0.43
1:25S:748:U:H2'	1:25S:749:C:C6	2.52	0.43
1:25S:847:A:H2'	1:25S:848:A:C8	2.53	0.43
1:25S:1069:C:H2'	1:25S:1070:U:C6	2.53	0.43
1:25S:1178:G:C6	1:25S:1179:A:N1	2.86	0.43
1:25S:2204:C:H42	1:25S:2238:G:H1	1.65	0.43
1:25S:2430:A:H2'	1:25S:2431:C:H6	1.81	0.43
1:25S:2483:G:N7	1:25S:2485:A:H1'	2.33	0.43
1:25S:2714:G:H4'	1:25S:2715:A:H5"	2.00	0.43
1:25S:3115:C:O5'	1:25S:3115:C:H6	2.01	0.43
3:58S:96:A:H2'	3:58S:97:A:O4'	2.18	0.43
3:58S:146:U:H2'	3:58S:147:U:H6	1.83	0.43
46:18S:513:U:H2'	46:18S:514:G:C8	2.53	0.43
46:18S:1022:C:H4'	46:18S:1125:A:H61	1.83	0.43
1:25S:1157:G:H2'	1:25S:1158:A:O4'	2.19	0.43
2:AB:2:G:O2'	2:AB:23:A:N1	2.46	0.43
46:18S:87:C:C4	46:18S:88:U:C5	3.05	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:210:A:H2'	46:18S:211:U:C6	2.54	0.43
46:18S:210:A:H2'	46:18S:211:U:H6	1.83	0.43
1:25S:15:C:OP1	1:25S:15:C:H3'	2.19	0.43
1:25S:400:G:H4'	1:25S:401:U:H5"	1.99	0.43
1:25S:967:A:N6	1:25S:968:G:C6	2.86	0.43
1:25S:1249:G:H2'	1:25S:1250:G:C8	2.53	0.43
1:25S:1784:G:H2'	1:25S:1785:U:O4'	2.17	0.43
1:25S:2407:C:H2'	1:25S:2408:U:H6	1.82	0.43
1:25S:2448:G:H2'	1:25S:2449:A:C8	2.53	0.43
1:25S:3165:A:H2'	1:25S:3166:C:C6	2.53	0.43
1:25S:3285:C:H2'	1:25S:3286:G:H8	1.81	0.43
46:18S:142:G:H1	46:18S:172:C:N4	2.15	0.43
46:18S:766:U:H5'	46:18S:767:U:H5"	2.00	0.43
1:25S:37:U:O3'	1:25S:935:U:H4'	2.18	0.43
1:25S:94:G:H2'	1:25S:95:A:C8	2.53	0.43
1:25S:196:G:C2	1:25S:199:A:C8	3.05	0.43
1:25S:1281:G:H2'	1:25S:1282:G:H8	1.83	0.43
1:25S:1724:U:H1'	1:25S:1725:C:C6	2.53	0.43
1:25S:1845:G:H5"	1:25S:1846:C:H5"	1.99	0.43
3:58S:9:A:H2'	3:58S:10:A:C8	2.54	0.43
46:18S:431:C:H2'	46:18S:432:G:O4'	2.18	0.43
46:18S:1222:C:H2'	46:18S:1223:A:C8	2.52	0.43
1:25S:170:G:C2	1:25S:171:G:H1'	2.53	0.43
1:25S:223:U:OP2	1:25S:224:C:N4	2.45	0.43
1:25S:433:A:H2'	1:25S:434:U:O4'	2.18	0.43
1:25S:726:G:N2	1:25S:743:C:C5	2.86	0.43
1:25S:979:U:O2'	1:25S:980:A:H5'	2.17	0.43
1:25S:1265:U:O2	1:25S:1277:C:H1'	2.18	0.43
1:25S:1940:G:C2	1:25S:2109:U:O2	2.72	0.43
1:25S:2358:A:H3'	1:25S:2359:C:C6	2.53	0.43
1:25S:3069:G:C2	1:25S:3070:A:C8	3.05	0.43
46:18S:388:G:C8	46:18S:423:G:C2	3.06	0.43
46:18S:751:G:H2'	46:18S:752:A:H8	1.82	0.43
46:18S:877:G:H5'	46:18S:937:C:H1'	2.00	0.43
1:25S:380:U:H2'	1:25S:381:U:C6	2.54	0.43
1:25S:829:U:H2'	1:25S:894:G:O6	2.18	0.43
1:25S:1642:A:N3	1:25S:1822:C:O2'	2.34	0.43
1:25S:1765:U:C5'	1:25S:1765:U:C6	2.95	0.43
1:25S:2102:U:H2'	1:25S:2103:U:C6	2.52	0.43
2:AB:36:C:H2'	2:AB:37:G:C8	2.54	0.43
2:AB:72:A:H4'	2:AB:73:C:OP1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:58S:15:G:C6	3:58S:16:G:N1	2.86	0.43
46:18S:81:G:H2'	46:18S:82:U:C6	2.53	0.43
46:18S:176:C:H2'	46:18S:177:U:H5'	2.00	0.43
46:18S:811:A:C2	46:18S:858:G:H1'	2.54	0.43
1:25S:21:G:OP2	3:58S:36:G:N2	2.50	0.43
1:25S:264:G:O5'	1:25S:264:G:H8	2.02	0.43
1:25S:333:G:H2'	1:25S:334:A:O4'	2.19	0.43
1:25S:348:A:H1'	1:25S:352:A:O2'	2.18	0.43
1:25S:435:C:N4	1:25S:624:G:H1	2.16	0.43
1:25S:1240:A:H61	1:25S:1244:A:H2'	1.82	0.43
1:25S:1757:A:C2	1:25S:1769:G:C2	3.06	0.43
1:25S:2645:G:C6	1:25S:2646:C:C4	3.06	0.43
1:25S:2775:U:H2'	1:25S:2776:C:C6	2.53	0.43
2:AB:5:G:H2'	2:AB:6:C:O4'	2.18	0.43
1:25S:359:U:H2'	1:25S:360:G:O4'	2.18	0.43
1:25S:1488:G:C2	1:25S:1489:A:C8	3.07	0.43
1:25S:2093:A:H2'	1:25S:2094:C:O4'	2.19	0.43
1:25S:2299:A:H2'	1:25S:2300:G:H5'	1.99	0.43
1:25S:2659:G:H4'	1:25S:2751:G:O2'	2.19	0.43
1:25S:3299:A:C5	1:25S:3300:U:C5	3.06	0.43
46:18S:153:G:H2'	46:18S:154:G:C8	2.54	0.43
46:18S:1750:A:H2'	46:18S:1751:C:O4'	2.18	0.43
1:25S:848:A:C5	1:25S:849:C:H1'	2.53	0.43
1:25S:955:U:H2'	1:25S:956:U:C6	2.53	0.43
1:25S:1396:C:H2'	1:25S:1397:C:C6	2.54	0.43
1:25S:1742:U:O5'	1:25S:1742:U:H6	2.02	0.43
1:25S:2588:U:C2	1:25S:2589:G:C8	3.07	0.43
1:25S:2828:G:C2	1:25S:2829:U:H1'	2.54	0.43
1:25S:3052:G:H2'	1:25S:3053:G:H8	1.83	0.43
2:AB:40:C:H5"	2:AB:41:G:OP2	2.19	0.43
2:AB:59:U:H2'	2:AB:60:G:H8	1.84	0.43
46:18S:56:U:H4'	46:18S:57:G:O5'	2.19	0.43
1:25S:159:A:C2	1:25S:263:C:O2	2.71	0.43
1:25S:160:G:H2'	1:25S:161:G:O4'	2.19	0.43
1:25S:215:G:C4	1:25S:216:G:C8	3.07	0.43
1:25S:312:C:C2	1:25S:313:A:C8	3.07	0.43
1:25S:437:G:H5"	1:25S:438:A:OP2	2.19	0.43
1:25S:1095:U:OP2	1:25S:1096:U:H5"	2.19	0.43
1:25S:1228:C:H2'	1:25S:1229:G:C8	2.54	0.43
46:18S:1:U:H4'	46:18S:2:A:OP2	2.16	0.43
46:18S:91:G:H2'	46:18S:92:A:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:99:C:H2'	46:18S:378:A:H4'	2.00	0.43
46:18S:392:G:H2'	46:18S:393:C:O4'	2.19	0.43
46:18S:460:A:H5'	46:18S:461:G:OP2	2.19	0.43
46:18S:1253:U:H3'	46:18S:1254:U:H6	1.84	0.43
46:18S:1311:U:H1'	46:18S:1315:U:O2	2.19	0.43
46:18S:1701:A:H5'	46:18S:1702:A:H5"	2.01	0.43
1:25S:241:G:O6	1:25S:242:C:N4	2.52	0.42
1:25S:412:G:C6	3:58S:12:A:C2	3.07	0.42
1:25S:566:G:H2'	1:25S:567:G:H8	1.82	0.42
1:25S:1377:G:H5'	1:25S:1408:G:O3'	2.19	0.42
1:25S:1602:A:C6	1:25S:1603:A:N1	2.86	0.42
1:25S:2376:G:H2'	1:25S:2377:G:C8	2.54	0.42
1:25S:2438:A:H61	1:25S:2509:U:H3	1.66	0.42
1:25S:2888:U:C6	1:25S:2911:A:N6	2.87	0.42
3:58S:126:A:OP2	3:58S:126:A:H2'	2.19	0.42
46:18S:252:U:H2'	46:18S:253:A:H8	1.84	0.42
1:25S:1019:G:H2'	1:25S:1019:G:N3	2.34	0.42
1:25S:1104:G:H2'	1:25S:1105:A:C8	2.54	0.42
1:25S:1552:G:H5"	1:25S:2171:G:H5'	2.00	0.42
1:25S:2498:C:O2'	1:25S:2499:U:H5'	2.19	0.42
1:25S:2568:C:HO2'	1:25S:2569:A:C5'	2.32	0.42
1:25S:2698:G:H8	1:25S:2698:G:O5'	2.02	0.42
1:25S:2816:G:N2	1:25S:2819:A:OP2	2.52	0.42
1:25S:2931:C:H2'	1:25S:2932:U:O4'	2.19	0.42
46:18S:46:A:N1	46:18S:432:G:O2'	2.36	0.42
46:18S:730:G:P	46:18S:732:G:H22	2.41	0.42
46:18S:893:U:H3	46:18S:919:A:H61	1.67	0.42
46:18S:1517:U:O2'	46:18S:1518:C:H5'	2.18	0.42
1:25S:94:G:H2'	1:25S:95:A:H8	1.84	0.42
1:25S:372:A:C6	1:25S:373:A:C6	3.07	0.42
1:25S:861:C:H2'	1:25S:862:U:O4'	2.19	0.42
1:25S:980:A:H2'	1:25S:981:U:O2	2.19	0.42
1:25S:1265:U:H2'	1:25S:1266:G:O4'	2.18	0.42
1:25S:1740:U:H1'	1:25S:1741:A:H2	1.83	0.42
3:58S:46:G:N2	3:58S:58:G:C4	2.87	0.42
3:58S:75:G:H2'	3:58S:76:C:C6	2.54	0.42
46:18S:930:A:H5"	46:18S:931:C:OP2	2.19	0.42
46:18S:1472:C:H6	46:18S:1472:C:H2'	1.63	0.42
46:18S:1783:C:H2'	46:18S:1784:C:H6	1.82	0.42
1:25S:293:C:H2'	1:25S:294:U:O4'	2.19	0.42
1:25S:402:A:H4'	1:25S:403:C:OP2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:778:U:O2'	1:25S:779:G:H5'	2.20	0.42
1:25S:1241:U:H2'	1:25S:1243:G:OP2	2.20	0.42
1:25S:1506:A:H1'	1:25S:1848:G:C6	2.55	0.42
1:25S:2116:G:C2	1:25S:3064:U:H5'	2.53	0.42
1:25S:2775:U:H2'	1:25S:2776:C:H6	1.84	0.42
3:58S:128:U:P	3:58S:129:C:H41	2.43	0.42
46:18S:805:U:O4	46:18S:806:A:N6	2.52	0.42
46:18S:824:G:H21	46:18S:849:C:H41	1.65	0.42
46:18S:1080:U:H3	46:18S:1091:A:H2	1.68	0.42
46:18S:1214:U:H5'	46:18S:1246:C:H1'	2.01	0.42
46:18S:1238:A:H2'	46:18S:1239:U:H5'	2.02	0.42
46:18S:1287:A:H4'	46:18S:1288:G:OP1	2.19	0.42
1:25S:16:A:C5	3:58S:144:G:N2	2.87	0.42
1:25S:90:C:C2'	1:25S:91:G:H5'	2.50	0.42
1:25S:222:A:C2	1:25S:223:U:C2	3.08	0.42
1:25S:1207:G:O2'	1:25S:1209:G:OP2	2.32	0.42
1:25S:1346:G:C6	1:25S:1347:U:C4	3.08	0.42
1:25S:2268:U:H3'	1:25S:2269:U:C5'	2.49	0.42
46:18S:245:U:H2'	46:18S:247:A:OP2	2.20	0.42
46:18S:683:C:H2'	46:18S:684:A:N7	2.34	0.42
46:18S:684:A:N3	46:18S:684:A:H2'	2.35	0.42
46:18S:822:U:H2'	46:18S:823:G:C8	2.54	0.42
46:18S:1202:A:H3'	46:18S:1202:A:N3	2.35	0.42
46:18S:1280:C:H2'	46:18S:1281:G:H8	1.84	0.42
46:18S:1459:C:H4'	46:18S:1460:A:OP1	2.19	0.42
1:25S:760:G:H1'	1:25S:770:G:N2	2.34	0.42
1:25S:1194:G:O2'	1:25S:1195:A:H5'	2.19	0.42
1:25S:1472:U:H2'	1:25S:1473:G:H8	1.84	0.42
1:25S:2113:A:O2'	1:25S:2116:G:N7	2.47	0.42
1:25S:3265:C:H2'	1:25S:3266:G:O4'	2.20	0.42
46:18S:243:G:C2	46:18S:251:A:C2	3.08	0.42
46:18S:446:A:C5	46:18S:447:U:C5	3.07	0.42
46:18S:1090:C:C2'	46:18S:1091:A:H5"	2.50	0.42
46:18S:1171:A:H2'	46:18S:1172:G:H8	1.82	0.42
46:18S:1311:U:O2	46:18S:1315:U:C2	2.73	0.42
1:25S:126:U:H3'	1:25S:127:G:H8	1.85	0.42
1:25S:1121:U:C4	1:25S:1122:U:C4	3.07	0.42
1:25S:2667:A:O2'	1:25S:2691:A:OP1	2.22	0.42
2:AB:48:U:C2'	2:AB:49:G:H5'	2.48	0.42
46:18S:465:G:C5	46:18S:466:U:C5	3.08	0.42
46:18S:648:G:N2	46:18S:649:U:O2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:385:A:H2'	1:25S:386:A:C8	2.55	0.42
1:25S:884:A:N7	1:25S:2139:A:C4	2.88	0.42
1:25S:890:C:O2	1:25S:2324:A:H2	2.03	0.42
1:25S:1659:U:H2'	1:25S:1660:C:C6	2.54	0.42
1:25S:1798:A:H2'	1:25S:1799:A:C8	2.55	0.42
1:25S:2168:A:C6	1:25S:2170:U:H1'	2.54	0.42
1:25S:2179:C:H4'	1:25S:2180:G:OP2	2.19	0.42
1:25S:2836:C:H5	1:25S:2852:C:N4	2.13	0.42
1:25S:3192:U:H2'	1:25S:3193:C:C6	2.54	0.42
46:18S:119:A:H1'	46:18S:397:A:C5	2.54	0.42
46:18S:520:A:H2'	46:18S:521:A:O4'	2.20	0.42
46:18S:855:A:O2'	46:18S:856:A:H3'	2.20	0.42
46:18S:915:A:H2'	46:18S:915:A:N3	2.35	0.42
46:18S:1182:U:H2'	46:18S:1184:A:OP2	2.19	0.42
46:18S:1477:G:H2'	46:18S:1478:G:H8	1.84	0.42
46:18S:1554:U:H5'	46:18S:1555:A:OP2	2.20	0.42
46:18S:1767:G:H4'	46:18S:1768:G:C4	2.54	0.42
46:18S:1796:C:H4'	46:18S:1797:A:OP2	2.19	0.42
1:25S:864:G:N2	1:25S:865:U:C4	2.88	0.42
1:25S:1074:U:O2'	1:25S:1075:A:H2'	2.20	0.42
1:25S:1667:A:H8	1:25S:1667:A:O5'	2.03	0.42
1:25S:1857:C:N4	1:25S:1858:A:N6	2.67	0.42
1:25S:1870:C:H4'	1:25S:3076:C:O2	2.20	0.42
1:25S:2221:G:N2	1:25S:2224:A:OP2	2.45	0.42
1:25S:2419:A:H2'	1:25S:2420:C:H6	1.85	0.42
1:25S:2442:G:H8	1:25S:2442:G:O5'	2.03	0.42
1:25S:2764:C:C4	1:25S:2765:C:C5	3.07	0.42
1:25S:2938:G:C2	1:25S:2939:G:C8	3.08	0.42
1:25S:3047:U:O2'	1:25S:3048:A:H5'	2.20	0.42
46:18S:1607:G:H2'	46:18S:1608:U:H6	1.85	0.42
46:18S:1783:C:H2'	46:18S:1784:C:C6	2.55	0.42
1:25S:735:A:H2'	1:25S:736:A:H8	1.85	0.42
1:25S:1022:U:O2'	1:25S:1023:C:H5'	2.20	0.42
1:25S:1032:C:H2'	1:25S:1033:U:O4'	2.20	0.42
1:25S:1203:A:H61	1:25S:1300:G:H2'	1.84	0.42
1:25S:1700:G:H2'	1:25S:1701:C:O4'	2.20	0.42
1:25S:1814:A:C5'	1:25S:1816:A:H1'	2.47	0.42
1:25S:1940:G:N2	1:25S:2109:U:O2	2.52	0.42
1:25S:2363:A:C6	1:25S:2364:G:C6	3.08	0.42
1:25S:2630:C:O2'	1:25S:2631:U:H5'	2.20	0.42
1:25S:3385:U:H2'	1:25S:3386:G:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:182:A:N6	46:18S:202:A:H61	2.18	0.42
46:18S:651:G:H2'	46:18S:652:G:O4'	2.19	0.42
46:18S:779:U:C6	46:18S:779:U:H3'	2.55	0.42
46:18S:1017:U:H2'	46:18S:1018:U:C6	2.55	0.42
46:18S:1369:U:H5"	46:18S:1370:U:OP2	2.20	0.42
46:18S:1467:C:H5'	46:18S:1602:C:OP1	2.19	0.42
1:25S:138:U:H2'	1:25S:139:G:C8	2.55	0.41
1:25S:603:A:H3'	1:25S:604:G:O4'	2.19	0.41
1:25S:620:U:O2'	1:25S:621:A:O4'	2.25	0.41
1:25S:1363:A:H2'	1:25S:1364:C:O4'	2.20	0.41
1:25S:2427:U:H1'	1:25S:2603:G:N2	2.35	0.41
1:25S:2523:A:O2'	1:25S:2587:U:H1'	2.20	0.41
1:25S:2729:U:C2	1:25S:2730:G:C8	3.08	0.41
46:18S:181:A:H2'	46:18S:182:A:O4'	2.20	0.41
46:18S:1163:A:N6	46:18S:1164:G:C6	2.88	0.41
46:18S:1229:G:N2	46:18S:1256:A:N6	2.68	0.41
46:18S:1469:A:H2'	46:18S:1470:C:C6	2.55	0.41
46:18S:1715:G:H2'	46:18S:1716:C:H5'	2.01	0.41
46:18S:1725:U:H2'	46:18S:1726:G:O4'	2.20	0.41
1:25S:160:G:N2	1:25S:262:U:O2	2.53	0.41
1:25S:421:G:O6	1:25S:2383:C:O2'	2.27	0.41
1:25S:686:G:C5	1:25S:687:U:C5	3.07	0.41
1:25S:1362:G:H2'	1:25S:1363:A:C8	2.55	0.41
1:25S:1495:U:C5	1:25S:1835:A:N1	2.83	0.41
1:25S:3181:C:O2	1:25S:3181:C:O4'	2.38	0.41
46:18S:275:C:N3	46:18S:276:C:N4	2.68	0.41
46:18S:331:A:C5	46:18S:332:U:C4	3.08	0.41
46:18S:825:U:H3	46:18S:847:A:N6	2.07	0.41
46:18S:1166:A:H2'	46:18S:1167:G:O4'	2.20	0.41
1:25S:1712:G:O5'	1:25S:1712:G:H8	2.03	0.41
1:25S:1863:G:N1	1:25S:1866:C:OP2	2.42	0.41
1:25S:3252:G:H2'	1:25S:3253:G:C8	2.55	0.41
46:18S:93:A:H4'	46:18S:94:U:OP2	2.20	0.41
46:18S:793:A:H3'	46:18S:794:U:H5'	2.01	0.41
46:18S:828:U:H3	46:18S:844:A:H2	1.66	0.41
46:18S:849:C:H2'	46:18S:850:A:O4'	2.20	0.41
46:18S:1090:C:H2'	46:18S:1091:A:H5"	2.02	0.41
46:18S:1475:A:H2'	46:18S:1476:C:O4'	2.20	0.41
46:18S:1736:G:O2'	46:18S:1737:G:H5'	2.21	0.41
46:18S:1738:U:H2'	46:18S:1739:C:H6	1.84	0.41
1:25S:718:G:C2	1:25S:721:G:H1'	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:1045:C:O2'	1:25S:1046:A:H5'	2.20	0.41
1:25S:1479:U:H2'	1:25S:1480:G:H5'	2.02	0.41
1:25S:1613:A:C6	1:25S:1614:C:C4	3.08	0.41
1:25S:2162:U:H2'	1:25S:2163:C:O4'	2.19	0.41
1:25S:2335:G:H8	1:25S:2335:G:OP1	2.04	0.41
1:25S:3013:U:H2'	1:25S:3014:U:C6	2.55	0.41
46:18S:1273:G:O5'	46:18S:1274:C:H3'	2.20	0.41
46:18S:1553:G:H2'	46:18S:1554:U:H5'	2.03	0.41
46:18S:1652:C:H2'	46:18S:1653:C:C6	2.54	0.41
46:18S:1665:U:H2'	46:18S:1666:U:C6	2.56	0.41
1:25S:311:C:C2	1:25S:312:C:C6	3.08	0.41
1:25S:590:G:C2	1:25S:610:G:H2'	2.55	0.41
1:25S:1385:C:C4	1:25S:1387:G:C8	3.08	0.41
1:25S:2298:U:O4	1:25S:2923:U:H5	2.04	0.41
3:58S:68:G:H2'	3:58S:69:U:H6	1.84	0.41
3:58S:153:U:H2'	3:58S:154:C:C6	2.55	0.41
46:18S:182:A:H61	46:18S:202:A:N6	2.19	0.41
46:18S:489:C:H2'	46:18S:498:G:H1	1.86	0.41
1:25S:26:A:C2	1:25S:27:C:C2	3.09	0.41
1:25S:59:G:H4'	1:25S:60:A:H4'	2.02	0.41
1:25S:197:G:H2'	1:25S:198:A:C8	2.56	0.41
1:25S:513:G:O2'	1:25S:514:G:H5'	2.20	0.41
1:25S:2488:A:H3'	1:25S:2489:C:C5'	2.51	0.41
46:18S:104:A:H4'	46:18S:105:A:O5'	2.20	0.41
46:18S:748:U:H2'	46:18S:749:U:H6	1.86	0.41
46:18S:912:U:O2	46:18S:914:G:N1	2.53	0.41
46:18S:914:G:O3'	46:18S:915:A:H8	2.04	0.41
46:18S:1125:A:N7	46:18S:1126:G:H1'	2.35	0.41
46:18S:1224:A:H2'	46:18S:1225:U:O4'	2.21	0.41
46:18S:1315:U:H5"	46:18S:1329:A:N3	2.35	0.41
46:18S:1339:C:N4	46:18S:1386:G:C6	2.89	0.41
1:25S:647:A:N6	1:25S:2371:G:HO2'	2.18	0.41
1:25S:747:A:C5	1:25S:748:U:C5	3.08	0.41
1:25S:752:C:H6	1:25S:752:C:O5'	2.03	0.41
1:25S:787:G:H2'	1:25S:788:C:C6	2.55	0.41
1:25S:1434:G:O2'	1:25S:1435:A:H5'	2.21	0.41
1:25S:1597:C:H2'	1:25S:1598:G:H8	1.85	0.41
1:25S:3049:A:H2'	1:25S:3050:U:O4'	2.21	0.41
1:25S:3063:C:H2'	1:25S:3064:U:H6	1.85	0.41
46:18S:447:U:C4	46:18S:448:C:C4	3.08	0.41
46:18S:1737:G:H2'	46:18S:1738:U:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:12:A:H2'	1:25S:13:A:C8	2.56	0.41
1:25S:226:C:H2'	1:25S:227:G:O4'	2.20	0.41
1:25S:340:C:H2'	1:25S:341:G:C8	2.56	0.41
1:25S:383:G:N2	1:25S:386:A:OP2	2.52	0.41
1:25S:537:A:H1'	1:25S:557:A:O2'	2.20	0.41
1:25S:619:A:H4'	1:25S:620:U:C5	2.55	0.41
1:25S:652:G:OP1	1:25S:1436:U:O2'	2.32	0.41
1:25S:1472:U:C2	1:25S:1473:G:C8	3.09	0.41
1:25S:1597:C:H2'	1:25S:1598:G:C8	2.55	0.41
1:25S:1617:G:C2	1:25S:1828:A:C2	3.09	0.41
1:25S:2745:G:O2'	1:25S:2747:A:N7	2.51	0.41
1:25S:2772:C:H4'	1:25S:2773:C:O5'	2.21	0.41
1:25S:3081:C:H2'	1:25S:3082:C:C6	2.56	0.41
46:18S:809:A:H2'	46:18S:810:G:O4'	2.21	0.41
46:18S:1394:G:N3	46:18S:1405:G:C2	2.89	0.41
46:18S:1531:G:H2'	46:18S:1532:U:C6	2.56	0.41
46:18S:1614:A:H2'	46:18S:1615:C:H5"	2.02	0.41
1:25S:80:G:O2'	1:25S:326:U:H4'	2.21	0.41
1:25S:184:U:H2'	1:25S:185:C:H6	1.86	0.41
1:25S:431:U:H2'	1:25S:432:G:H8	1.86	0.41
1:25S:549:U:H2'	1:25S:550:A:C8	2.55	0.41
1:25S:645:A:C8	1:25S:649:A:C6	3.09	0.41
1:25S:992:A:C2'	1:25S:993:G:H5'	2.51	0.41
1:25S:1146:C:H4'	1:25S:1331:U:C5	2.55	0.41
1:25S:1233:G:C2	1:25S:1234:G:C8	3.09	0.41
1:25S:1532:C:C2	1:25S:1591:G:C2	3.08	0.41
1:25S:2210:G:O5'	1:25S:2210:G:H8	2.03	0.41
1:25S:2265:C:H2'	1:25S:2266:U:O4'	2.21	0.41
1:25S:2356:A:N6	1:25S:2983:C:H5	2.15	0.41
1:25S:2812:C:O2'	1:25S:2813:A:H5'	2.21	0.41
1:25S:2830:G:C6	1:25S:2831:G:C5	3.09	0.41
1:25S:3335:A:H5"	1:25S:3336:A:OP2	2.20	0.41
1:25S:3350:C:N4	1:25S:3353:G:H22	2.18	0.41
3:58S:18:U:H2'	3:58S:19:C:C6	2.56	0.41
3:58S:138:A:C2	3:58S:139:U:C2	3.09	0.41
46:18S:504:U:H2'	46:18S:505:A:C8	2.55	0.41
46:18S:1147:A:H2'	46:18S:1148:C:H6	1.85	0.41
1:25S:1011:A:C2	1:25S:1040:A:C2	3.09	0.41
1:25S:1439:U:H2'	1:25S:1440:G:O4'	2.21	0.41
1:25S:1469:C:C2	1:25S:1509:A:C2	3.09	0.41
1:25S:1744:G:H2'	1:25S:1745:C:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:1901:A:O3'	1:25S:2918:G:H5'	2.20	0.41
1:25S:2180:G:H2'	1:25S:2181:C:C6	2.56	0.41
46:18S:433:C:H2'	46:18S:434:G:O4'	2.20	0.41
46:18S:815:G:H4'	46:18S:816:G:OP2	2.20	0.41
46:18S:1680:G:OP2	46:18S:1680:G:H8	2.04	0.41
46:18S:1778:G:H2'	46:18S:1779:U:O4'	2.21	0.41
1:25S:411:U:O2'	1:25S:412:G:H5'	2.21	0.40
1:25S:2205:U:H6	1:25S:2205:U:H2'	1.61	0.40
1:25S:2511:A:N3	1:25S:2511:A:H2'	2.35	0.40
1:25S:2599:U:H2'	1:25S:2600:C:C6	2.57	0.40
1:25S:2951:G:H2'	1:25S:2951:G:N3	2.35	0.40
1:25S:2985:C:H2'	1:25S:2986:U:C6	2.56	0.40
1:25S:3268:A:H3'	1:25S:3269:U:H5'	2.01	0.40
46:18S:646:C:H3'	46:18S:647:G:H8	1.86	0.40
46:18S:819:G:H1	46:18S:853:G:H2'	1.86	0.40
46:18S:947:U:H2'	46:18S:948:G:C8	2.56	0.40
46:18S:978:A:H2'	46:18S:979:A:O4'	2.21	0.40
46:18S:1237:G:H2'	46:18S:1238:A:C8	2.55	0.40
46:18S:1285:U:H4'	46:18S:1286:U:O5'	2.22	0.40
1:25S:547:G:H2'	1:25S:548:G:C8	2.57	0.40
1:25S:675:C:O2'	1:25S:679:U:OP1	2.33	0.40
1:25S:873:C:H2'	1:25S:875:G:O4'	2.21	0.40
1:25S:1316:C:H5"	1:25S:1317:A:H2	1.86	0.40
1:25S:1478:C:H2'	1:25S:1479:U:C6	2.56	0.40
1:25S:1765:U:C6	1:25S:1765:U:C4'	3.03	0.40
1:25S:1852:G:C6	1:25S:1853:U:C4	3.09	0.40
1:25S:2884:C:O2'	1:25S:2885:C:H5'	2.20	0.40
2:AB:79:A:H2'	2:AB:80:G:O4'	2.21	0.40
46:18S:486:G:N2	46:18S:502:U:O2	2.54	0.40
1:25S:66:A:C5	1:25S:68:C:C2	3.09	0.40
1:25S:129:U:H2'	1:25S:130:A:H8	1.81	0.40
1:25S:308:A:H5'	1:25S:2223:A:O2'	2.21	0.40
1:25S:736:A:C4	1:25S:737:G:H1'	2.56	0.40
1:25S:1084:A:O5'	1:25S:1084:A:H8	2.05	0.40
46:18S:161:U:H2'	46:18S:162:A:H8	1.86	0.40
46:18S:845:G:H2'	46:18S:846:G:C8	2.53	0.40
1:25S:641:C:H42	1:25S:645:A:H8	1.68	0.40
1:25S:740:G:H2'	1:25S:741:U:O4'	2.22	0.40
1:25S:1704:A:N7	1:25S:1739:U:C4	2.90	0.40
1:25S:2426:U:H2'	1:25S:2427:U:C6	2.56	0.40
1:25S:2512:C:O2'	1:25S:2513:U:H5'	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:2986:U:H2'	1:25S:2987:A:C8	2.57	0.40
1:25S:3041:U:H2'	1:25S:3042:U:H6	1.86	0.40
3:58S:104:A:C8	3:58S:105:A:C8	3.10	0.40
46:18S:497:G:H2'	46:18S:497:G:N3	2.36	0.40
46:18S:1615:C:H6	46:18S:1615:C:C5'	2.26	0.40
46:18S:1652:C:H2'	46:18S:1653:C:H6	1.87	0.40
1:25S:190:U:N3	1:25S:224:C:O4'	2.55	0.40
1:25S:238:A:C2'	1:25S:239:G:H5'	2.51	0.40
1:25S:1192:C:OP2	1:25S:1192:C:H4'	2.22	0.40
1:25S:1501:U:O2'	1:25S:1502:C:H5'	2.20	0.40
2:AB:74:C:H1'	2:AB:106:U:O2	2.21	0.40
3:58S:56:G:N3	3:58S:62:C:C2	2.89	0.40
46:18S:248:U:H2'	46:18S:249:U:H5"	2.02	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	
4	uL10	197/312 (63%)	153 (78%)	43 (22%)	1 (0%)	29	68
5	uL2	245/254 (96%)	221 (90%)	24 (10%)	0	100	100
6	uL3	384/387 (99%)	337 (88%)	44 (12%)	3 (1%)	19	57
7	uL4	359/362 (99%)	306 (85%)	50 (14%)	3 (1%)	19	57
8	uL18	294/297 (99%)	258 (88%)	35 (12%)	1 (0%)	41	76
9	eL6	152/176 (86%)	129 (85%)	22 (14%)	1 (1%)	22	60
10	uL30	220/244 (90%)	195 (89%)	24 (11%)	1 (0%)	29	68
11	eL8	227/256 (89%)	197 (87%)	28 (12%)	2 (1%)	17	55
12	uL6	189/191 (99%)	171 (90%)	17 (9%)	1 (0%)	29	68
13	uL16	206/221 (93%)	182 (88%)	24 (12%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
14	uL5	167/174 (96%)	143 (86%)	22 (13%)	2 (1%)	13 48
15	eL13	191/199 (96%)	167 (87%)	20 (10%)	4 (2%)	7 33
16	eL14	134/138 (97%)	122 (91%)	12 (9%)	0	100 100
17	eL15	201/204 (98%)	181 (90%)	17 (8%)	3 (2%)	10 42
18	uL13	195/199 (98%)	176 (90%)	15 (8%)	4 (2%)	7 33
19	uL22	152/184 (83%)	138 (91%)	14 (9%)	0	100 100
20	eL18	183/186 (98%)	158 (86%)	25 (14%)	0	100 100
21	eL19	172/189 (91%)	161 (94%)	10 (6%)	1 (1%)	25 64
22	eL20	170/172 (99%)	150 (88%)	19 (11%)	1 (1%)	25 64
23	eL21	157/160 (98%)	138 (88%)	18 (12%)	1 (1%)	25 64
24	eL22	96/121 (79%)	76 (79%)	19 (20%)	1 (1%)	15 53
25	uL14	130/137 (95%)	118 (91%)	12 (9%)	0	100 100
26	eL24	61/155 (39%)	56 (92%)	5 (8%)	0	100 100
27	uL23	119/142 (84%)	108 (91%)	11 (9%)	0	100 100
28	uL24	124/127 (98%)	114 (92%)	10 (8%)	0	100 100
29	eL27	133/135 (98%)	117 (88%)	16 (12%)	0	100 100
30	uL15	146/149 (98%)	124 (85%)	20 (14%)	2 (1%)	11 43
31	eL29	56/59 (95%)	48 (86%)	8 (14%)	0	100 100
32	eL30	95/105 (90%)	88 (93%)	7 (7%)	0	100 100
33	eL31	107/113 (95%)	90 (84%)	16 (15%)	1 (1%)	17 55
34	eL32	125/130 (96%)	113 (90%)	12 (10%)	0	100 100
35	eL33	104/107 (97%)	96 (92%)	7 (7%)	1 (1%)	15 53
36	eL34	110/121 (91%)	99 (90%)	10 (9%)	1 (1%)	17 55
37	uL29	117/120 (98%)	103 (88%)	14 (12%)	0	100 100
38	eL36	97/100 (97%)	78 (80%)	18 (19%)	1 (1%)	15 53
39	eL37	83/88 (94%)	74 (89%)	7 (8%)	2 (2%)	6 29
40	eL38	75/78 (96%)	65 (87%)	10 (13%)	0	100 100
41	eL39	48/51 (94%)	40 (83%)	7 (15%)	1 (2%)	7 33
42	eL40	50/128 (39%)	47 (94%)	3 (6%)	0	100 100
43	eL41	23/25 (92%)	21 (91%)	2 (9%)	0	100 100
44	eL42	103/106 (97%)	82 (80%)	21 (20%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	eL43	89/92 (97%)	84 (94%)	5 (6%)	0	100	100
47	uS2	200/252 (79%)	170 (85%)	29 (14%)	1 (0%)	29	68
48	eS1	212/255 (83%)	175 (82%)	36 (17%)	1 (0%)	29	68
49	uS5	215/254 (85%)	187 (87%)	25 (12%)	3 (1%)	11	43
50	uS3	212/240 (88%)	178 (84%)	33 (16%)	1 (0%)	29	68
51	eS4	256/261 (98%)	221 (86%)	33 (13%)	2 (1%)	19	57
52	uS7	204/225 (91%)	161 (79%)	41 (20%)	2 (1%)	15	53
53	eS6	221/236 (94%)	173 (78%)	47 (21%)	1 (0%)	29	68
54	eS7	182/190 (96%)	147 (81%)	34 (19%)	1 (0%)	29	68
55	eS8	184/200 (92%)	159 (86%)	23 (12%)	2 (1%)	14	50
56	uS4	183/197 (93%)	154 (84%)	26 (14%)	3 (2%)	9	40
57	eS10	94/105 (90%)	72 (77%)	21 (22%)	1 (1%)	14	50
58	uS17	139/156 (89%)	120 (86%)	19 (14%)	0	100	100
59	eS12	122/143 (85%)	82 (67%)	40 (33%)	0	100	100
60	uS15	148/151 (98%)	130 (88%)	17 (12%)	1 (1%)	22	60
61	uS11	125/137 (91%)	99 (79%)	23 (18%)	3 (2%)	6	29
62	uS19	114/142 (80%)	90 (79%)	22 (19%)	2 (2%)	8	37
63	uS9	133/143 (93%)	105 (79%)	28 (21%)	0	100	100
64	eS17	119/136 (88%)	92 (77%)	25 (21%)	2 (2%)	9	39
65	uS13	143/146 (98%)	118 (82%)	23 (16%)	2 (1%)	11	43
66	eS19	141/144 (98%)	113 (80%)	28 (20%)	0	100	100
67	uS10	71/121 (59%)	66 (93%)	4 (6%)	1 (1%)	11	43
68	eS21	85/87 (98%)	64 (75%)	21 (25%)	0	100	100
69	uS8	127/130 (98%)	115 (91%)	12 (9%)	0	100	100
70	uS12	142/145 (98%)	125 (88%)	16 (11%)	1 (1%)	22	60
71	eS24	132/135 (98%)	112 (85%)	19 (14%)	1 (1%)	19	57
72	eS25	68/108 (63%)	53 (78%)	14 (21%)	1 (2%)	10	42
73	eS26	95/119 (80%)	76 (80%)	18 (19%)	1 (1%)	14	50
74	eS27	79/82 (96%)	64 (81%)	15 (19%)	0	100	100
75	eS28	59/67 (88%)	45 (76%)	14 (24%)	0	100	100
76	uS14	47/56 (84%)	41 (87%)	6 (13%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
77	eS30	54/63 (86%)	37 (68%)	16 (30%)	1 (2%)	8 36
78	RACK	316/319 (99%)	231 (73%)	83 (26%)	2 (1%)	25 64
79	eS31	61/152 (40%)	40 (66%)	19 (31%)	2 (3%)	4 21
80	eEF2	840/842 (100%)	721 (86%)	111 (13%)	8 (1%)	15 53
83	uL11	129/165 (78%)	98 (76%)	30 (23%)	1 (1%)	19 57
All	All	11938/13198 (90%)	10158 (85%)	1694 (14%)	86 (1%)	22 60

All (86) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	uL10	124	VAL
6	uL3	5	LYS
6	uL3	127	LYS
11	eL8	157	VAL
14	uL5	95	ASN
18	uL13	15	LEU
18	uL13	111	PRO
30	uL15	47	LYS
33	eL31	97	LEU
36	eL34	82	ALA
41	eL39	31	THR
49	uS5	91	ARG
51	eS4	24	SER
52	uS7	125	THR
54	eS7	65	PRO
57	eS10	88	PRO
61	uS11	42	VAL
61	uS11	126	THR
65	uS13	91	ASP
77	eS30	9	ALA
79	eS31	102	VAL
79	eS31	118	ARG
6	uL3	187	SER
7	uL4	182	LEU
8	uL18	125	VAL
9	eL6	5	LYS
15	eL13	51	LEU
18	uL13	12	LYS
24	eL22	66	VAL
35	eL33	59	VAL

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Mol	Chain	Res	Type
47	uS2	28	ASN
49	uS5	40	LYS
49	uS5	92	ALA
55	eS8	22	ARG
56	uS4	134	ILE
56	uS4	168	ARG
60	uS15	106	ARG
61	uS11	40	ALA
71	eS24	49	LYS
80	eEF2	28	VAL
80	eEF2	697	ALA
21	eL19	53	LYS
30	uL15	117	ARG
39	eL37	64	MET
48	eS1	207	LEU
56	uS4	91	LYS
62	uS19	52	LYS
72	eS25	54	VAL
80	eEF2	389	SER
80	eEF2	676	ILE
80	eEF2	764	PRO
15	eL13	76	THR
15	eL13	136	GLU
51	eS4	194	THR
62	uS19	101	ALA
78	RACK	86	ASP
80	eEF2	50	LYS
7	uL4	14	GLU
7	uL4	338	LYS
11	eL8	39	ALA
17	eL15	94	TYR
18	uL13	13	GLY
38	eL36	15	LYS
55	eS8	121	LEU
65	uS13	14	ILE
80	eEF2	425	ASP
12	uL6	190	ASP
22	eL20	24	LEU
23	eL21	18	ASP
39	eL37	84	SER
64	eS17	23	LYS
64	eS17	24	LEU

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Mol	Chain	Res	Type
80	eEF2	572	SER
83	uL11	105	GLN
78	RACK	194	GLY
52	uS7	220	VAL
10	uL30	191	VAL
15	eL13	48	PRO
17	eL15	74	PRO
50	uS3	36	GLY
73	eS26	19	LYS
14	uL5	8	PRO
17	eL15	75	VAL
67	uS10	73	GLY
70	uS12	41	SER
53	eS6	86	PRO

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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
4	uL10	168/254 (66%)	118 (70%)	50 (30%)	0 1
5	uL2	189/196 (96%)	161 (85%)	28 (15%)	3 14
6	uL3	319/323 (99%)	278 (87%)	41 (13%)	4 19
7	uL4	288/289 (100%)	229 (80%)	59 (20%)	1 6
8	uL18	244/245 (100%)	192 (79%)	52 (21%)	1 5
9	eL6	134/153 (88%)	113 (84%)	21 (16%)	2 13
10	uL30	186/205 (91%)	164 (88%)	22 (12%)	5 22
11	eL8	184/208 (88%)	146 (79%)	38 (21%)	1 6
12	uL6	171/171 (100%)	136 (80%)	35 (20%)	1 6
13	uL16	180/187 (96%)	156 (87%)	24 (13%)	4 17
14	uL5	147/150 (98%)	115 (78%)	32 (22%)	1 5
15	eL13	154/159 (97%)	129 (84%)	25 (16%)	2 12
16	eL14	107/109 (98%)	96 (90%)	11 (10%)	7 28

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
17	eL15	175/176 (99%)	151 (86%)	24 (14%)	3 17
18	uL13	160/162 (99%)	137 (86%)	23 (14%)	3 15
19	uL22	125/146 (86%)	99 (79%)	26 (21%)	1 5
20	eL18	150/151 (99%)	131 (87%)	19 (13%)	4 19
21	eL19	142/154 (92%)	117 (82%)	25 (18%)	2 10
22	eL20	156/156 (100%)	124 (80%)	32 (20%)	1 6
23	eL21	136/137 (99%)	119 (88%)	17 (12%)	4 20
24	eL22	85/107 (79%)	69 (81%)	16 (19%)	1 8
25	uL14	102/105 (97%)	86 (84%)	16 (16%)	2 13
26	eL24	55/129 (43%)	44 (80%)	11 (20%)	1 7
27	uL23	104/118 (88%)	91 (88%)	13 (12%)	4 20
28	uL24	109/110 (99%)	89 (82%)	20 (18%)	1 9
29	eL27	115/115 (100%)	95 (83%)	20 (17%)	2 10
30	uL15	118/119 (99%)	98 (83%)	20 (17%)	2 11
31	eL29	46/47 (98%)	38 (83%)	8 (17%)	2 10
32	eL30	81/88 (92%)	67 (83%)	14 (17%)	2 10
33	eL31	94/97 (97%)	82 (87%)	12 (13%)	4 19
34	eL32	109/111 (98%)	96 (88%)	13 (12%)	5 22
35	eL33	90/91 (99%)	76 (84%)	14 (16%)	2 13
36	eL34	95/103 (92%)	81 (85%)	14 (15%)	3 15
37	uL29	104/105 (99%)	81 (78%)	23 (22%)	1 4
38	eL36	81/82 (99%)	58 (72%)	23 (28%)	0 2
39	eL37	69/71 (97%)	62 (90%)	7 (10%)	7 29
40	eL38	68/69 (99%)	54 (79%)	14 (21%)	1 6
41	eL39	45/46 (98%)	37 (82%)	8 (18%)	2 9
42	eL40	47/116 (40%)	42 (89%)	5 (11%)	6 26
43	eL41	23/23 (100%)	16 (70%)	7 (30%)	0 1
44	eL42	90/91 (99%)	70 (78%)	20 (22%)	1 4
45	eL43	71/72 (99%)	60 (84%)	11 (16%)	2 13
47	uS2	163/210 (78%)	139 (85%)	24 (15%)	3 15
48	eS1	190/224 (85%)	156 (82%)	34 (18%)	2 9

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
49	uS5	176/205 (86%)	141 (80%)	35 (20%)	1 7
50	uS3	174/195 (89%)	135 (78%)	39 (22%)	1 4
51	eS4	220/222 (99%)	186 (84%)	34 (16%)	2 13
52	uS7	173/191 (91%)	131 (76%)	42 (24%)	0 3
53	eS6	189/201 (94%)	148 (78%)	41 (22%)	1 5
54	eS7	165/170 (97%)	131 (79%)	34 (21%)	1 6
55	eS8	150/161 (93%)	120 (80%)	30 (20%)	1 7
56	uS4	158/166 (95%)	133 (84%)	25 (16%)	2 12
57	eS10	77/98 (79%)	60 (78%)	17 (22%)	1 4
58	uS17	128/137 (93%)	106 (83%)	22 (17%)	2 10
59	eS12	88/119 (74%)	63 (72%)	25 (28%)	0 2
60	uS15	127/128 (99%)	98 (77%)	29 (23%)	1 4
61	uS11	81/105 (77%)	63 (78%)	18 (22%)	1 4
62	uS19	97/118 (82%)	75 (77%)	22 (23%)	1 4
63	uS9	112/119 (94%)	92 (82%)	20 (18%)	2 9
64	eS17	105/124 (85%)	80 (76%)	25 (24%)	0 3
65	uS13	128/129 (99%)	99 (77%)	29 (23%)	1 4
66	eS19	115/116 (99%)	91 (79%)	24 (21%)	1 5
67	uS10	76/114 (67%)	65 (86%)	11 (14%)	3 15
68	eS21	74/74 (100%)	57 (77%)	17 (23%)	1 4
69	uS8	110/111 (99%)	93 (84%)	17 (16%)	2 13
70	uS12	119/120 (99%)	102 (86%)	17 (14%)	3 15
71	eS24	112/113 (99%)	89 (80%)	23 (20%)	1 6
72	eS25	61/89 (68%)	49 (80%)	12 (20%)	1 7
73	eS26	83/101 (82%)	68 (82%)	15 (18%)	1 9
74	eS27	70/71 (99%)	52 (74%)	18 (26%)	0 3
75	eS28	54/60 (90%)	37 (68%)	17 (32%)	0 1
76	uS14	45/49 (92%)	39 (87%)	6 (13%)	4 17
77	eS30	48/54 (89%)	41 (85%)	7 (15%)	3 15
78	RACK	259/262 (99%)	207 (80%)	52 (20%)	1 6
79	eS31	54/135 (40%)	44 (82%)	10 (18%)	1 8

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
80	eEF2	715/715 (100%)	605 (85%)	110 (15%)	2 13
All	All	10012/10952 (91%)	8198 (82%)	1814 (18%)	1 9

All (1814) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	uL10	4	ILE
4	uL10	5	ARG
4	uL10	6	GLU
4	uL10	7	LYS
4	uL10	15	LEU
4	uL10	19	LEU
4	uL10	23	LYS
4	uL10	28	VAL
4	uL10	31	ASP
4	uL10	34	SER
4	uL10	37	GLN
4	uL10	40	GLU
4	uL10	41	VAL
4	uL10	42	ARG
4	uL10	43	LYS
4	uL10	44	GLU
4	uL10	52	LEU
4	uL10	67	LEU
4	uL10	69	ASP
4	uL10	72	ASP
4	uL10	73	PHE
4	uL10	74	GLU
4	uL10	76	LEU
4	uL10	94	THR
4	uL10	97	LYS
4	uL10	105	VAL
4	uL10	110	ARG
4	uL10	114	VAL
4	uL10	121	VAL
4	uL10	124	VAL
4	uL10	129	GLU
4	uL10	141	VAL
4	uL10	143	THR
4	uL10	147	ARG
4	uL10	158	VAL
4	uL10	159	VAL

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Mol	Chain	Res	Type
4	uL10	164	LYS
4	uL10	165	VAL
4	uL10	169	GLU
4	uL10	172	LEU
4	uL10	179	SER
4	uL10	181	PHE
4	uL10	183	PHE
4	uL10	185	LEU
4	uL10	186	THR
4	uL10	187	VAL
4	uL10	188	VAL
4	uL10	191	TYR
4	uL10	193	ASN
4	uL10	196	VAL
5	uL2	20	THR
5	uL2	22	LEU
5	uL2	31	THR
5	uL2	48	ILE
5	uL2	64	ARG
5	uL2	82	VAL
5	uL2	97	ASN
5	uL2	101	VAL
5	uL2	116	VAL
5	uL2	119	LYS
5	uL2	128	ARG
5	uL2	134	VAL
5	uL2	137	ILE
5	uL2	155	LYS
5	uL2	157	VAL
5	uL2	165	VAL
5	uL2	168	VAL
5	uL2	180	LEU
5	uL2	193	ARG
5	uL2	199	THR
5	uL2	202	VAL
5	uL2	219	ILE
5	uL2	225	ILE
5	uL2	226	SER
5	uL2	227	ARG
5	uL2	230	VAL
5	uL2	243	THR
5	uL2	247	ARG

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Mol	Chain	Res	Type
6	uL3	7	GLU
6	uL3	10	ARG
6	uL3	25	ILE
6	uL3	29	VAL
6	uL3	70	ARG
6	uL3	73	VAL
6	uL3	85	VAL
6	uL3	95	THR
6	uL3	103	THR
6	uL3	109	HIS
6	uL3	111	SER
6	uL3	114	VAL
6	uL3	139	GLN
6	uL3	140	ASP
6	uL3	145	GLU
6	uL3	156	SER
6	uL3	157	VAL
6	uL3	178	LEU
6	uL3	187	SER
6	uL3	201	LYS
6	uL3	206	ASP
6	uL3	210	GLU
6	uL3	216	ASP
6	uL3	229	VAL
6	uL3	235	THR
6	uL3	236	LYS
6	uL3	242	THR
6	uL3	246	LEU
6	uL3	252	ILE
6	uL3	285	VAL
6	uL3	291	GLU
6	uL3	296	THR
6	uL3	297	SER
6	uL3	306	THR
6	uL3	332	ARG
6	uL3	341	SER
6	uL3	344	THR
6	uL3	346	THR
6	uL3	348	ARG
6	uL3	375	GLU
6	uL3	385	LYS
7	uL4	3	ARG

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Mol	Chain	Res	Type
7	uL4	6	VAL
7	uL4	12	THR
7	uL4	22	LEU
7	uL4	52	VAL
7	uL4	54	GLU
7	uL4	71	VAL
7	uL4	73	ARG
7	uL4	74	ILE
7	uL4	82	THR
7	uL4	92	ASN
7	uL4	93	MET
7	uL4	95	ARG
7	uL4	99	MET
7	uL4	111	VAL
7	uL4	120	TYR
7	uL4	129	THR
7	uL4	133	SER
7	uL4	138	ARG
7	uL4	145	ILE
7	uL4	150	LEU
7	uL4	154	THR
7	uL4	156	LEU
7	uL4	161	LYS
7	uL4	170	LYS
7	uL4	172	VAL
7	uL4	176	SER
7	uL4	180	LYS
7	uL4	182	LEU
7	uL4	193	LYS
7	uL4	194	TYR
7	uL4	203	ARG
7	uL4	206	LEU
7	uL4	208	VAL
7	uL4	215	ILE
7	uL4	226	GLU
7	uL4	230	VAL
7	uL4	246	ARG
7	uL4	250	TRP
7	uL4	258	LEU
7	uL4	259	ASP
7	uL4	275	THR
7	uL4	276	LEU

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Mol	Chain	Res	Type
7	uL4	281	ILE
7	uL4	287	THR
7	uL4	290	ILE
7	uL4	306	THR
7	uL4	311	HIS
7	uL4	312	VAL
7	uL4	313	LEU
7	uL4	314	LYS
7	uL4	318	LEU
7	uL4	323	VAL
7	uL4	327	LEU
7	uL4	339	LEU
7	uL4	341	SER
7	uL4	342	LYS
7	uL4	346	LYS
7	uL4	350	LYS
8	uL18	6	ASP
8	uL18	8	LYS
8	uL18	10	SER
8	uL18	13	SER
8	uL18	22	ARG
8	uL18	23	ARG
8	uL18	31	TYR
8	uL18	36	LEU
8	uL18	37	VAL
8	uL18	50	ARG
8	uL18	68	THR
8	uL18	70	THR
8	uL18	81	HIS
8	uL18	88	ILE
8	uL18	92	LEU
8	uL18	93	THR
8	uL18	107	ARG
8	uL18	109	THR
8	uL18	112	LYS
8	uL18	116	ASP
8	uL18	118	THR
8	uL18	124	GLU
8	uL18	125	VAL
8	uL18	126	GLU
8	uL18	135	VAL
8	uL18	144	VAL

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Mol	Chain	Res	Type
8	uL18	146	LEU
8	uL18	152	ARG
8	uL18	155	THR
8	uL18	164	LYS
8	uL18	176	SER
8	uL18	185	PHE
8	uL18	187	THR
8	uL18	188	GLU
8	uL18	195	LEU
8	uL18	196	ARG
8	uL18	204	VAL
8	uL18	211	LEU
8	uL18	213	ASP
8	uL18	214	ASP
8	uL18	220	SER
8	uL18	231	ILE
8	uL18	235	SER
8	uL18	236	LEU
8	uL18	241	THR
8	uL18	261	THR
8	uL18	262	LYS
8	uL18	268	GLU
8	uL18	275	THR
8	uL18	285	ARG
8	uL18	286	VAL
8	uL18	296	GLN
9	eL6	4	GLN
9	eL6	5	LYS
9	eL6	8	LYS
9	eL6	18	LEU
9	eL6	21	THR
9	eL6	31	ARG
9	eL6	33	SER
9	eL6	34	LEU
9	eL6	52	VAL
9	eL6	87	THR
9	eL6	90	LYS
9	eL6	94	GLU
9	eL6	99	GLU
9	eL6	104	GLU
9	eL6	108	LYS
9	eL6	137	ASP

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Mol	Chain	Res	Type
9	eL6	142	ASP
9	eL6	159	LEU
9	eL6	162	SER
9	eL6	167	ASN
9	eL6	173	MET
10	uL30	24	GLU
10	uL30	25	GLN
10	uL30	26	VAL
10	uL30	34	LYS
10	uL30	40	LYS
10	uL30	45	LEU
10	uL30	47	ARG
10	uL30	77	VAL
10	uL30	82	LYS
10	uL30	93	ASN
10	uL30	95	ILE
10	uL30	117	VAL
10	uL30	120	THR
10	uL30	124	LEU
10	uL30	156	ILE
10	uL30	160	ARG
10	uL30	164	SER
10	uL30	166	ASN
10	uL30	179	LEU
10	uL30	183	ASP
10	uL30	239	LEU
10	uL30	241	LYS
11	eL8	24	ASN
11	eL8	36	ILE
11	eL8	38	GLN
11	eL8	40	VAL
11	eL8	46	LEU
11	eL8	49	TYR
11	eL8	50	VAL
11	eL8	57	ARG
11	eL8	67	ILE
11	eL8	69	LEU
11	eL8	74	THR
11	eL8	79	GLN
11	eL8	82	LEU
11	eL8	90	THR
11	eL8	92	LYS

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Mol	Chain	Res	Type
11	eL8	98	ARG
11	eL8	106	LYS
11	eL8	108	ARG
11	eL8	109	LEU
11	eL8	111	LYS
11	eL8	116	VAL
11	eL8	118	GLU
11	eL8	124	ASP
11	eL8	134	TYR
11	eL8	156	ASP
11	eL8	160	ILE
11	eL8	163	VAL
11	eL8	169	LEU
11	eL8	171	LYS
11	eL8	190	VAL
11	eL8	191	ASN
11	eL8	192	GLN
11	eL8	193	LYS
11	eL8	194	THR
11	eL8	215	VAL
11	eL8	227	ASP
11	eL8	240	ASN
11	eL8	249	ARG
12	uL6	1	MET
12	uL6	7	GLU
12	uL6	9	GLN
12	uL6	11	GLU
12	uL6	12	VAL
12	uL6	17	THR
12	uL6	18	VAL
12	uL6	19	SER
12	uL6	21	LYS
12	uL6	22	SER
12	uL6	25	VAL
12	uL6	27	VAL
12	uL6	28	VAL
12	uL6	33	THR
12	uL6	35	THR
12	uL6	44	THR
12	uL6	46	THR
12	uL6	48	VAL
12	uL6	50	ASN

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Mol	Chain	Res	Type
12	uL6	55	VAL
12	uL6	69	ARG
12	uL6	74	LEU
12	uL6	82	VAL
12	uL6	92	TYR
12	uL6	103	ILE
12	uL6	130	ASP
12	uL6	133	THR
12	uL6	134	ILE
12	uL6	135	GLU
12	uL6	139	ASN
12	uL6	154	VAL
12	uL6	162	GLN
12	uL6	167	VAL
12	uL6	170	LYS
12	uL6	173	ARG
13	uL16	3	ARG
13	uL16	8	CYS
13	uL16	26	VAL
13	uL16	29	SER
13	uL16	42	THR
13	uL16	48	LEU
13	uL16	83	ASP
13	uL16	97	LEU
13	uL16	101	LYS
13	uL16	121	LYS
13	uL16	129	VAL
13	uL16	130	ASP
13	uL16	147	VAL
13	uL16	153	ARG
13	uL16	165	ILE
13	uL16	170	LYS
13	uL16	185	ARG
13	uL16	186	GLU
13	uL16	192	ASP
13	uL16	205	SER
13	uL16	206	LEU
13	uL16	210	ILE
13	uL16	213	PHE
13	uL16	215	GLU
14	uL5	7	ASN
14	uL5	12	LEU

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Mol	Chain	Res	Type
14	uL5	23	VAL
14	uL5	28	ASP
14	uL5	30	LEU
14	uL5	31	THR
14	uL5	34	SER
14	uL5	40	LEU
14	uL5	46	VAL
14	uL5	52	TYR
14	uL5	56	THR
14	uL5	71	VAL
14	uL5	77	GLU
14	uL5	84	LEU
14	uL5	92	ARG
14	uL5	94	ARG
14	uL5	106	ILE
14	uL5	107	ASP
14	uL5	109	HIS
14	uL5	112	LEU
14	uL5	115	LYS
14	uL5	116	TYR
14	uL5	132	ASN
14	uL5	137	ARG
14	uL5	151	SER
14	uL5	154	THR
14	uL5	155	THR
14	uL5	158	ASP
14	uL5	164	LYS
14	uL5	170	ASP
14	uL5	171	VAL
14	uL5	172	LEU
15	eL13	36	ARG
15	eL13	37	ASN
15	eL13	39	ARG
15	eL13	46	ILE
15	eL13	54	LEU
15	eL13	63	VAL
15	eL13	70	ARG
15	eL13	85	LEU
15	eL13	97	VAL
15	eL13	98	ASP
15	eL13	100	ARG
15	eL13	103	ASN

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Mol	Chain	Res	Type
15	eL13	114	GLN
15	eL13	124	ILE
15	eL13	125	VAL
15	eL13	129	ASN
15	eL13	134	GLU
15	eL13	138	VAL
15	eL13	140	SER
15	eL13	144	THR
15	eL13	152	THR
15	eL13	160	GLN
15	eL13	177	LYS
15	eL13	178	LYS
15	eL13	192	GLU
16	eL14	6	ILE
16	eL14	8	LYS
16	eL14	20	VAL
16	eL14	27	GLN
16	eL14	63	VAL
16	eL14	64	VAL
16	eL14	74	ARG
16	eL14	90	VAL
16	eL14	91	CYS
16	eL14	93	LYS
16	eL14	137	LYS
17	eL15	7	LEU
17	eL15	10	LEU
17	eL15	18	VAL
17	eL15	33	LYS
17	eL15	57	GLN
17	eL15	80	THR
17	eL15	95	GLN
17	eL15	101	THR
17	eL15	106	VAL
17	eL15	117	ASN
17	eL15	121	VAL
17	eL15	132	VAL
17	eL15	138	GLN
17	eL15	140	LYS
17	eL15	142	ILE
17	eL15	145	ASP
17	eL15	149	ASN
17	eL15	153	ASP

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Mol	Chain	Res	Type
17	eL15	165	THR
17	eL15	188	ARG
17	eL15	189	LYS
17	eL15	190	THR
17	eL15	195	ASN
17	eL15	196	THR
18	uL13	15	LEU
18	uL13	33	ILE
18	uL13	34	VAL
18	uL13	43	ILE
18	uL13	44	SER
18	uL13	58	LEU
18	uL13	68	ARG
18	uL13	78	ARG
18	uL13	79	ILE
18	uL13	85	ARG
18	uL13	111	PRO
18	uL13	118	VAL
18	uL13	129	LEU
18	uL13	135	TYR
18	uL13	140	LYS
18	uL13	143	THR
18	uL13	163	SER
18	uL13	170	LYS
18	uL13	172	ARG
18	uL13	174	PHE
18	uL13	176	LYS
18	uL13	182	ASN
18	uL13	197	LEU
19	uL22	3	ARG
19	uL22	7	THR
19	uL22	8	SER
19	uL22	18	ARG
19	uL22	31	GLU
19	uL22	36	ILE
19	uL22	40	GLU
19	uL22	41	LEU
19	uL22	42	THR
19	uL22	55	GLN
19	uL22	69	ARG
19	uL22	79	THR
19	uL22	88	VAL

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Mol	Chain	Res	Type
19	uL22	91	VAL
19	uL22	96	GLN
19	uL22	113	TYR
19	uL22	115	SER
19	uL22	116	HIS
19	uL22	124	LYS
19	uL22	125	GLN
19	uL22	126	ARG
19	uL22	138	LYS
19	uL22	148	LEU
19	uL22	150	VAL
19	uL22	152	GLU
19	uL22	154	GLU
20	eL18	8	LYS
20	eL18	11	LYS
20	eL18	20	LYS
20	eL18	31	LYS
20	eL18	62	VAL
20	eL18	66	ARG
20	eL18	82	VAL
20	eL18	84	VAL
20	eL18	86	THR
20	eL18	95	GLU
20	eL18	100	THR
20	eL18	135	GLN
20	eL18	136	ASN
20	eL18	146	SER
20	eL18	147	ARG
20	eL18	161	LYS
20	eL18	166	LEU
20	eL18	180	ARG
20	eL18	185	LYS
21	eL19	3	ASN
21	eL19	6	THR
21	eL19	10	LEU
21	eL19	24	LEU
21	eL19	25	ASP
21	eL19	44	LEU
21	eL19	51	VAL
21	eL19	57	VAL
21	eL19	69	SER
21	eL19	70	LYS

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Mol	Chain	Res	Type
21	eL19	80	LYS
21	eL19	82	LYS
21	eL19	86	GLU
21	eL19	91	SER
21	eL19	93	VAL
21	eL19	96	ILE
21	eL19	101	VAL
21	eL19	117	LYS
21	eL19	128	LYS
21	eL19	133	LYS
21	eL19	134	HIS
21	eL19	143	ILE
21	eL19	150	GLN
21	eL19	162	ARG
21	eL19	166	ASN
22	eL20	10	ILE
22	eL20	13	ARG
22	eL20	17	GLU
22	eL20	19	VAL
22	eL20	21	GLU
22	eL20	24	LEU
22	eL20	26	ARG
22	eL20	28	ARG
22	eL20	35	VAL
22	eL20	40	ARG
22	eL20	45	LEU
22	eL20	52	LYS
22	eL20	61	ILE
22	eL20	62	ASN
22	eL20	79	VAL
22	eL20	87	THR
22	eL20	97	VAL
22	eL20	100	VAL
22	eL20	106	LEU
22	eL20	120	SER
22	eL20	126	VAL
22	eL20	130	GLU
22	eL20	132	THR
22	eL20	136	LYS
22	eL20	138	GLN
22	eL20	149	LYS
22	eL20	155	ARG

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Mol	Chain	Res	Type
22	eL20	158	LYS
22	eL20	162	THR
22	eL20	164	SER
22	eL20	166	LYS
22	eL20	172	TYR
23	eL21	4	SER
23	eL21	26	HIS
23	eL21	63	VAL
23	eL21	72	VAL
23	eL21	89	LEU
23	eL21	90	ASN
23	eL21	102	ARG
23	eL21	103	GLN
23	eL21	104	GLU
23	eL21	124	VAL
23	eL21	126	VAL
23	eL21	138	SER
23	eL21	139	ARG
23	eL21	141	VAL
23	eL21	147	VAL
23	eL21	154	VAL
23	eL21	157	GLU
24	eL22	11	ILE
24	eL22	16	THR
24	eL22	21	SER
24	eL22	23	THR
24	eL22	29	ASP
24	eL22	39	ASP
24	eL22	52	ASN
24	eL22	55	THR
24	eL22	63	VAL
24	eL22	67	SER
24	eL22	68	THR
24	eL22	74	LYS
24	eL22	75	TYR
24	eL22	90	ARG
24	eL22	98	THR
24	eL22	100	THR
25	uL14	9	THR
25	uL14	10	LYS
25	uL14	12	ARG
25	uL14	13	ILE

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Mol	Chain	Res	Type
25	uL14	14	SER
25	uL14	22	ILE
25	uL14	39	VAL
25	uL14	54	LEU
25	uL14	57	MET
25	uL14	73	VAL
25	uL14	97	ASP
25	uL14	115	THR
25	uL14	125	LEU
25	uL14	128	ARG
25	uL14	133	SER
25	uL14	136	VAL
26	eL24	4	GLU
26	eL24	17	ARG
26	eL24	19	THR
26	eL24	25	ASP
26	eL24	33	ASN
26	eL24	35	LYS
26	eL24	39	LEU
26	eL24	43	ARG
26	eL24	54	LEU
26	eL24	55	PHE
26	eL24	57	LYS
27	uL23	24	LEU
27	uL23	34	LEU
27	uL23	37	THR
27	uL23	40	LEU
27	uL23	57	LEU
27	uL23	61	LYS
27	uL23	77	GLU
27	uL23	89	LYS
27	uL23	102	LEU
27	uL23	107	VAL
27	uL23	112	THR
27	uL23	113	LEU
27	uL23	134	ASP
28	uL24	5	SER
28	uL24	28	ARG
28	uL24	37	LYS
28	uL24	38	GLU
28	uL24	39	LEU
28	uL24	40	ARG

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Mol	Chain	Res	Type
28	uL24	51	ARG
28	uL24	56	VAL
28	uL24	59	VAL
28	uL24	64	LYS
28	uL24	74	TYR
28	uL24	80	VAL
28	uL24	82	VAL
28	uL24	83	ASP
28	uL24	85	VAL
28	uL24	86	THR
28	uL24	88	GLU
28	uL24	94	SER
28	uL24	105	VAL
28	uL24	126	LEU
29	eL27	3	LYS
29	eL27	13	VAL
29	eL27	15	ARG
29	eL27	30	ASP
29	eL27	34	LYS
29	eL27	52	LYS
29	eL27	53	VAL
29	eL27	54	THR
29	eL27	55	LYS
29	eL27	57	HIS
29	eL27	64	LYS
29	eL27	74	VAL
29	eL27	83	THR
29	eL27	86	THR
29	eL27	90	GLU
29	eL27	92	PHE
29	eL27	94	SER
29	eL27	95	VAL
29	eL27	96	VAL
29	eL27	116	LYS
30	uL15	4	ARG
30	uL15	6	THR
30	uL15	8	THR
30	uL15	19	LYS
30	uL15	22	ILE
30	uL15	32	ARG
30	uL15	42	ARG
30	uL15	58	MET

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Mol	Chain	Res	Type
30	uL15	60	TYR
30	uL15	64	GLN
30	uL15	74	ASN
30	uL15	78	LEU
30	uL15	80	THR
30	uL15	85	ASP
30	uL15	115	LYS
30	uL15	118	ILE
30	uL15	124	ILE
30	uL15	135	GLU
30	uL15	145	VAL
30	uL15	148	ILE
31	eL29	5	LYS
31	eL29	18	ARG
31	eL29	23	LYS
31	eL29	26	THR
31	eL29	38	LYS
31	eL29	42	ASN
31	eL29	47	LEU
31	eL29	59	LYS
32	eL30	25	LEU
32	eL30	28	LYS
32	eL30	29	SER
32	eL30	32	LYS
32	eL30	39	SER
32	eL30	48	THR
32	eL30	54	SER
32	eL30	55	GLU
32	eL30	67	VAL
32	eL30	77	LEU
32	eL30	79	THR
32	eL30	84	LEU
32	eL30	101	LEU
32	eL30	104	LEU
33	eL31	7	VAL
33	eL31	8	VAL
33	eL31	12	TYR
33	eL31	28	ARG
33	eL31	34	LYS
33	eL31	46	THR
33	eL31	51	LEU
33	eL31	64	VAL

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Mol	Chain	Res	Type
33	eL31	71	LEU
33	eL31	81	GLU
33	eL31	98	VAL
33	eL31	106	THR
34	eL32	16	LYS
34	eL32	27	ARG
34	eL32	31	ASN
34	eL32	40	SER
34	eL32	41	VAL
34	eL32	42	VAL
34	eL32	51	SER
34	eL32	52	GLN
34	eL32	59	SER
34	eL32	78	ASN
34	eL32	80	LYS
34	eL32	109	LEU
34	eL32	125	ARG
35	eL33	4	SER
35	eL33	10	LYS
35	eL33	12	LYS
35	eL33	15	SER
35	eL33	21	ARG
35	eL33	30	ILE
35	eL33	33	GLU
35	eL33	54	ARG
35	eL33	59	VAL
35	eL33	60	ARG
35	eL33	74	THR
35	eL33	80	VAL
35	eL33	98	VAL
35	eL33	102	LEU
36	eL34	5	VAL
36	eL34	10	ARG
36	eL34	11	ASN
36	eL34	35	VAL
36	eL34	36	LYS
36	eL34	69	HIS
36	eL34	71	THR
36	eL34	79	SER
36	eL34	80	ARG
36	eL34	85	VAL
36	eL34	103	LYS

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Mol	Chain	Res	Type
36	eL34	105	VAL
36	eL34	106	LYS
36	eL34	113	LYS
37	uL29	8	GLU
37	uL29	10	ARG
37	uL29	14	LYS
37	uL29	22	VAL
37	uL29	30	GLU
37	uL29	35	LYS
37	uL29	41	LEU
37	uL29	46	THR
37	uL29	47	VAL
37	uL29	48	ARG
37	uL29	53	CYS
37	uL29	56	THR
37	uL29	59	ASN
37	uL29	64	GLU
37	uL29	71	LYS
37	uL29	84	LYS
37	uL29	89	ARG
37	uL29	90	ARG
37	uL29	105	ARG
37	uL29	108	GLN
37	uL29	114	ARG
37	uL29	118	ILE
37	uL29	119	LYS
38	eL36	4	LYS
38	eL36	12	ASN
38	eL36	18	THR
38	eL36	19	SER
38	eL36	21	THR
38	eL36	26	ILE
38	eL36	27	SER
38	eL36	35	ASN
38	eL36	37	THR
38	eL36	38	LYS
38	eL36	40	VAL
38	eL36	51	SER
38	eL36	57	LEU
38	eL36	60	LEU
38	eL36	62	ARG
38	eL36	70	ARG

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Mol	Chain	Res	Type
38	eL36	77	LEU
38	eL36	79	SER
38	eL36	80	PHE
38	eL36	81	THR
38	eL36	88	GLU
38	eL36	92	ASN
38	eL36	99	ARG
39	eL37	18	LEU
39	eL37	24	ARG
39	eL37	25	ARG
39	eL37	31	LYS
39	eL37	59	THR
39	eL37	68	LYS
39	eL37	80	THR
40	eL38	9	LYS
40	eL38	16	ARG
40	eL38	17	ARG
40	eL38	20	VAL
40	eL38	22	THR
40	eL38	25	VAL
40	eL38	29	LYS
40	eL38	45	VAL
40	eL38	50	SER
40	eL38	55	VAL
40	eL38	63	LYS
40	eL38	65	LEU
40	eL38	68	SER
40	eL38	75	VAL
41	eL39	5	LYS
41	eL39	6	SER
41	eL39	18	LYS
41	eL39	23	LEU
41	eL39	28	ARG
41	eL39	31	THR
41	eL39	47	THR
41	eL39	51	ILE
42	eL40	79	GLU
42	eL40	93	LYS
42	eL40	94	SER
42	eL40	98	LYS
42	eL40	127	LEU
43	eL41	4	LYS

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Mol	Chain	Res	Type
43	eL41	6	ARG
43	eL41	7	LYS
43	eL41	8	LYS
43	eL41	10	THR
43	eL41	12	ARG
43	eL41	19	LYS
44	eL42	2	VAL
44	eL42	4	VAL
44	eL42	20	HIS
44	eL42	22	GLN
44	eL42	35	LEU
44	eL42	38	GLN
44	eL42	63	LYS
44	eL42	66	LYS
44	eL42	67	LYS
44	eL42	68	VAL
44	eL42	69	VAL
44	eL42	70	LEU
44	eL42	71	ARG
44	eL42	77	CYS
44	eL42	79	THR
44	eL42	84	THR
44	eL42	93	LEU
44	eL42	100	LYS
44	eL42	104	LEU
44	eL42	106	PHE
45	eL43	4	ARG
45	eL43	16	VAL
45	eL43	33	GLN
45	eL43	38	ASP
45	eL43	40	SER
45	eL43	46	THR
45	eL43	56	THR
45	eL43	60	CYS
45	eL43	82	THR
45	eL43	90	VAL
45	eL43	91	GLU
47	uS2	8	ASP
47	uS2	9	LEU
47	uS2	10	THR
47	uS2	15	GLN
47	uS2	18	LEU

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Mol	Chain	Res	Type
47	uS2	22	THR
47	uS2	45	VAL
47	uS2	50	VAL
47	uS2	55	GLU
47	uS2	71	GLU
47	uS2	80	THR
47	uS2	93	THR
47	uS2	120	LEU
47	uS2	121	VAL
47	uS2	147	THR
47	uS2	158	VAL
47	uS2	167	LYS
47	uS2	168	HIS
47	uS2	172	LEU
47	uS2	182	LEU
47	uS2	184	LEU
47	uS2	185	ARG
47	uS2	188	LEU
47	uS2	189	VAL
48	eS1	26	ARG
48	eS1	28	GLU
48	eS1	32	ILE
48	eS1	43	VAL
48	eS1	50	LYS
48	eS1	65	VAL
48	eS1	67	GLU
48	eS1	79	HIS
48	eS1	83	LYS
48	eS1	90	GLU
48	eS1	91	VAL
48	eS1	94	LYS
48	eS1	97	LEU
48	eS1	103	MET
48	eS1	107	THR
48	eS1	108	ASP
48	eS1	110	LEU
48	eS1	115	ARG
48	eS1	126	THR
48	eS1	127	VAL
48	eS1	128	LYS
48	eS1	145	LYS
48	eS1	167	VAL

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Mol	Chain	Res	Type
48	eS1	169	SER
48	eS1	171	ILE
48	eS1	173	THR
48	eS1	174	LYS
48	eS1	177	GLN
48	eS1	180	THR
48	eS1	181	LEU
48	eS1	188	LEU
48	eS1	212	VAL
48	eS1	220	GLN
48	eS1	222	LYS
49	uS5	43	ARG
49	uS5	45	VAL
49	uS5	46	LYS
49	uS5	51	THR
49	uS5	52	THR
49	uS5	53	ILE
49	uS5	58	LEU
49	uS5	68	ILE
49	uS5	69	ILE
49	uS5	70	ASP
49	uS5	72	LEU
49	uS5	73	LEU
49	uS5	77	GLN
49	uS5	78	ASP
49	uS5	90	THR
49	uS5	94	GLN
49	uS5	95	ARG
49	uS5	103	VAL
49	uS5	111	VAL
49	uS5	117	THR
49	uS5	137	ILE
49	uS5	146	THR
49	uS5	148	LEU
49	uS5	150	GLN
49	uS5	154	LEU
49	uS5	166	THR
49	uS5	167	VAL
49	uS5	181	SER
49	uS5	186	LYS
49	uS5	193	VAL
49	uS5	206	THR

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Mol	Chain	Res	Type
49	uS5	210	THR
49	uS5	221	THR
49	uS5	226	THR
49	uS5	232	GLU
50	uS3	11	LEU
50	uS3	21	LEU
50	uS3	29	LEU
50	uS3	31	GLU
50	uS3	42	THR
50	uS3	46	THR
50	uS3	56	GLN
50	uS3	57	ASP
50	uS3	62	ASN
50	uS3	66	ILE
50	uS3	68	GLU
50	uS3	76	ARG
50	uS3	84	ILE
50	uS3	93	ASP
50	uS3	94	ARG
50	uS3	96	LEU
50	uS3	97	SER
50	uS3	99	VAL
50	uS3	113	LEU
50	uS3	116	ARG
50	uS3	122	VAL
50	uS3	124	ARG
50	uS3	134	CYS
50	uS3	137	VAL
50	uS3	138	VAL
50	uS3	148	LYS
50	uS3	150	MET
50	uS3	157	LEU
50	uS3	170	THR
50	uS3	172	THR
50	uS3	174	HIS
50	uS3	175	VAL
50	uS3	177	MET
50	uS3	179	GLN
50	uS3	197	THR
50	uS3	207	THR
50	uS3	208	ILE
50	uS3	212	LYS

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Mol	Chain	Res	Type
50	uS3	214	GLU
51	eS4	6	LYS
51	eS4	20	LEU
51	eS4	21	ASP
51	eS4	32	SER
51	eS4	42	LEU
51	eS4	51	ARG
51	eS4	61	VAL
51	eS4	64	ILE
51	eS4	71	LYS
51	eS4	80	THR
51	eS4	81	THR
51	eS4	87	MET
51	eS4	90	ILE
51	eS4	96	ASN
51	eS4	116	ASP
51	eS4	133	LYS
51	eS4	163	ASP
51	eS4	169	ILE
51	eS4	170	THR
51	eS4	182	TYR
51	eS4	189	LEU
51	eS4	196	VAL
51	eS4	197	HIS
51	eS4	206	ASP
51	eS4	215	ASP
51	eS4	217	THR
51	eS4	220	THR
51	eS4	221	ARG
51	eS4	227	VAL
51	eS4	236	ILE
51	eS4	237	SER
51	eS4	246	LEU
51	eS4	247	SER
51	eS4	256	ARG
52	uS7	27	THR
52	uS7	33	VAL
52	uS7	35	GLN
52	uS7	37	GLN
52	uS7	38	THR
52	uS7	42	LEU
52	uS7	43	PHE

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Mol	Chain	Res	Type
52	uS7	48	PHE
52	uS7	50	GLU
52	uS7	63	GLN
52	uS7	76	ARG
52	uS7	82	PHE
52	uS7	83	ARG
52	uS7	92	ARG
52	uS7	100	ASN
52	uS7	108	LEU
52	uS7	109	LYS
52	uS7	112	ARG
52	uS7	115	LYS
52	uS7	119	ASP
52	uS7	124	LEU
52	uS7	125	THR
52	uS7	133	VAL
52	uS7	135	ASP
52	uS7	139	ASN
52	uS7	143	ARG
52	uS7	147	THR
52	uS7	149	VAL
52	uS7	157	ARG
52	uS7	170	GLN
52	uS7	187	ILE
52	uS7	189	THR
52	uS7	194	LEU
52	uS7	196	GLU
52	uS7	197	GLU
52	uS7	200	ASN
52	uS7	203	LYS
52	uS7	205	SER
52	uS7	213	LYS
52	uS7	219	ARG
52	uS7	220	VAL
52	uS7	225	ARG
53	eS6	2	LYS
53	eS6	6	SER
53	eS6	7	TYR
53	eS6	10	ASN
53	eS6	15	THR
53	eS6	22	HIS
53	eS6	31	ARG

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Mol	Chain	Res	Type
53	eS6	34	GLN
53	eS6	36	VAL
53	eS6	39	GLU
53	eS6	45	PHE
53	eS6	46	LYS
53	eS6	65	GLN
53	eS6	67	VAL
53	eS6	85	ARG
53	eS6	87	ARG
53	eS6	88	ARG
53	eS6	92	ARG
53	eS6	98	ARG
53	eS6	101	ILE
53	eS6	114	VAL
53	eS6	120	GLU
53	eS6	121	LEU
53	eS6	124	LEU
53	eS6	125	THR
53	eS6	126	ASP
53	eS6	127	THR
53	eS6	139	ASN
53	eS6	150	GLU
53	eS6	151	ASP
53	eS6	152	ASP
53	eS6	154	ARG
53	eS6	156	PHE
53	eS6	157	VAL
53	eS6	164	LYS
53	eS6	169	TYR
53	eS6	178	LEU
53	eS6	179	VAL
53	eS6	182	GLN
53	eS6	195	VAL
53	eS6	216	LEU
54	eS7	7	LYS
54	eS7	9	LEU
54	eS7	14	THR
54	eS7	17	GLU
54	eS7	19	GLN
54	eS7	27	LEU
54	eS7	28	GLU
54	eS7	35	LYS

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Mol	Chain	Res	Type
54	eS7	37	GLU
54	eS7	38	LEU
54	eS7	46	ILE
54	eS7	51	VAL
54	eS7	75	THR
54	eS7	77	LEU
54	eS7	78	THR
54	eS7	80	GLU
54	eS7	82	GLU
54	eS7	83	LYS
54	eS7	87	ASP
54	eS7	104	ARG
54	eS7	105	THR
54	eS7	106	SER
54	eS7	118	LEU
54	eS7	119	THR
54	eS7	126	LEU
54	eS7	129	LEU
54	eS7	133	THR
54	eS7	140	VAL
54	eS7	155	ASP
54	eS7	156	SER
54	eS7	159	VAL
54	eS7	170	GLN
54	eS7	173	TYR
54	eS7	184	GLU
55	eS8	7	SER
55	eS8	10	LYS
55	eS8	14	THR
55	eS8	21	PHE
55	eS8	25	ARG
55	eS8	32	GLN
55	eS8	36	THR
55	eS8	45	SER
55	eS8	58	LEU
55	eS8	60	ILE
55	eS8	62	THR
55	eS8	66	SER
55	eS8	76	THR
55	eS8	91	VAL
55	eS8	95	THR
55	eS8	96	LEU

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Mol	Chain	Res	Type
55	eS8	104	ILE
55	eS8	110	ARG
55	eS8	113	PHE
55	eS8	116	HIS
55	eS8	120	THR
55	eS8	121	LEU
55	eS8	143	TRP
55	eS8	156	VAL
55	eS8	158	SER
55	eS8	168	CYS
55	eS8	172	ARG
55	eS8	178	ARG
55	eS8	179	CYS
55	eS8	182	TYR
56	uS4	3	ARG
56	uS4	6	ARG
56	uS4	30	LEU
56	uS4	38	ASN
56	uS4	46	SER
56	uS4	54	ARG
56	uS4	58	ASP
56	uS4	60	LEU
56	uS4	63	ASP
56	uS4	70	LEU
56	uS4	83	VAL
56	uS4	96	VAL
56	uS4	99	LEU
56	uS4	110	GLN
56	uS4	118	LEU
56	uS4	121	SER
56	uS4	130	THR
56	uS4	134	ILE
56	uS4	138	LYS
56	uS4	150	LEU
56	uS4	152	SER
56	uS4	161	THR
56	uS4	172	VAL
56	uS4	174	ARG
56	uS4	179	ARG
57	eS10	3	MET
57	eS10	8	ARG
57	eS10	9	ASN

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Mol	Chain	Res	Type
57	eS10	12	HIS
57	eS10	15	LEU
57	eS10	27	PHE
57	eS10	33	GLU
57	eS10	34	GLU
57	eS10	38	LYS
57	eS10	44	LYS
57	eS10	57	THR
57	eS10	64	TYR
57	eS10	68	LEU
57	eS10	70	GLU
57	eS10	76	LEU
57	eS10	77	ARG
57	eS10	79	TYR
58	uS17	3	THR
58	uS17	4	GLU
58	uS17	7	VAL
58	uS17	20	PHE
58	uS17	21	ASN
58	uS17	25	VAL
58	uS17	26	LYS
58	uS17	27	THR
58	uS17	29	LYS
58	uS17	33	ARG
58	uS17	40	LEU
58	uS17	42	PHE
58	uS17	47	THR
58	uS17	63	LEU
58	uS17	67	ARG
58	uS17	74	THR
58	uS17	80	MET
58	uS17	85	VAL
58	uS17	98	ASN
58	uS17	123	VAL
58	uS17	141	LYS
58	uS17	142	VAL
59	eS12	25	GLU
59	eS12	26	ASP
59	eS12	28	LEU
59	eS12	32	LEU
59	eS12	41	LEU
59	eS12	53	THR

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Mol	Chain	Res	Type
59	eS12	62	LEU
59	eS12	63	VAL
59	eS12	64	SER
59	eS12	67	THR
59	eS12	68	GLU
59	eS12	71	ILE
59	eS12	72	ILE
59	eS12	80	ASN
59	eS12	81	ASP
59	eS12	96	GLN
59	eS12	97	LEU
59	eS12	103	LEU
59	eS12	115	VAL
59	eS12	122	VAL
59	eS12	123	VAL
59	eS12	133	LEU
59	eS12	136	ILE
59	eS12	139	HIS
59	eS12	142	GLN
60	uS15	3	ARG
60	uS15	14	SER
60	uS15	16	ILE
60	uS15	27	LYS
60	uS15	32	SER
60	uS15	33	VAL
60	uS15	34	ILE
60	uS15	52	VAL
60	uS15	53	LEU
60	uS15	60	VAL
60	uS15	62	GLN
60	uS15	64	ARG
60	uS15	65	VAL
60	uS15	74	ILE
60	uS15	84	ILE
60	uS15	88	LEU
60	uS15	93	LYS
60	uS15	98	VAL
60	uS15	100	LYS
60	uS15	102	LEU
60	uS15	103	GLU
60	uS15	104	ARG
60	uS15	116	ILE

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Mol	Chain	Res	Type
60	uS15	125	LEU
60	uS15	134	VAL
60	uS15	138	ASN
60	uS15	140	LYS
60	uS15	145	THR
60	uS15	151	ASN
61	uS11	13	VAL
61	uS11	20	TYR
61	uS11	22	SER
61	uS11	28	VAL
61	uS11	29	HIS
61	uS11	39	ILE
61	uS11	43	THR
61	uS11	47	LYS
61	uS11	84	ARG
61	uS11	93	THR
61	uS11	111	ARG
61	uS11	112	ILE
61	uS11	114	ARG
61	uS11	115	ILE
61	uS11	121	VAL
61	uS11	126	THR
61	uS11	136	ARG
61	uS11	137	LEU
62	uS19	14	THR
62	uS19	15	HIS
62	uS19	24	LYS
62	uS19	25	LEU
62	uS19	30	THR
62	uS19	32	ASP
62	uS19	35	LYS
62	uS19	36	LEU
62	uS19	44	ARG
62	uS19	49	MET
62	uS19	50	THR
62	uS19	52	LYS
62	uS19	56	PHE
62	uS19	60	LEU
62	uS19	64	LYS
62	uS19	65	LEU
62	uS19	84	ILE
62	uS19	86	VAL

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Mol	Chain	Res	Type
62	uS19	92	SER
62	uS19	100	LYS
62	uS19	104	GLN
62	uS19	111	MET
63	uS9	10	PHE
63	uS9	21	HIS
63	uS9	22	VAL
63	uS9	28	LEU
63	uS9	36	ILE
63	uS9	37	THR
63	uS9	39	VAL
63	uS9	42	GLU
63	uS9	48	VAL
63	uS9	52	LEU
63	uS9	57	LEU
63	uS9	61	SER
63	uS9	66	ARG
63	uS9	69	VAL
63	uS9	82	ARG
63	uS9	110	THR
63	uS9	116	LEU
63	uS9	117	LEU
63	uS9	127	LYS
63	uS9	132	LYS
64	eS17	8	THR
64	eS17	9	VAL
64	eS17	11	ARG
64	eS17	21	TYR
64	eS17	30	THR
64	eS17	32	LYS
64	eS17	36	ASP
64	eS17	42	GLN
64	eS17	46	LEU
64	eS17	63	LYS
64	eS17	66	VAL
64	eS17	75	GLU
64	eS17	79	GLU
64	eS17	80	ARG
64	eS17	83	GLN
64	eS17	84	TYR
64	eS17	95	ARG
64	eS17	97	ASN

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Mol	Chain	Res	Type
64	eS17	99	VAL
64	eS17	102	VAL
64	eS17	105	GLN
64	eS17	106	THR
64	eS17	107	SER
64	eS17	108	ASP
64	eS17	113	LEU
65	uS13	8	GLN
65	uS13	11	PHE
65	uS13	13	HIS
65	uS13	15	LEU
65	uS13	21	ASN
65	uS13	22	VAL
65	uS13	27	LYS
65	uS13	28	ILE
65	uS13	44	ASN
65	uS13	51	ASP
65	uS13	66	LEU
65	uS13	67	GLU
65	uS13	72	ILE
65	uS13	74	GLN
65	uS13	77	THR
65	uS13	78	HIS
65	uS13	81	ILE
65	uS13	85	PHE
65	uS13	89	GLN
65	uS13	90	ASN
65	uS13	96	LYS
65	uS13	97	ASP
65	uS13	105	VAL
65	uS13	107	SER
65	uS13	125	ILE
65	uS13	126	ARG
65	uS13	127	HIS
65	uS13	133	VAL
65	uS13	141	THR
66	eS19	8	ASP
66	eS19	18	TYR
66	eS19	21	PHE
66	eS19	28	LEU
66	eS19	30	VAL
66	eS19	33	TYR

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Mol	Chain	Res	Type
66	eS19	36	ILE
66	eS19	45	MET
66	eS19	49	ASP
66	eS19	51	GLU
66	eS19	63	ARG
66	eS19	64	HIS
66	eS19	67	MET
66	eS19	70	GLN
66	eS19	71	VAL
66	eS19	79	LEU
66	eS19	88	VAL
66	eS19	104	VAL
66	eS19	122	ARG
66	eS19	131	ASP
66	eS19	133	ASP
66	eS19	135	ILE
66	eS19	142	GLU
66	eS19	144	GLU
67	uS10	26	LEU
67	uS10	30	LYS
67	uS10	31	VAL
67	uS10	40	ASN
67	uS10	47	GLN
67	uS10	61	LYS
67	uS10	62	VAL
67	uS10	65	ILE
67	uS10	114	VAL
67	uS10	116	VAL
67	uS10	117	VAL
68	eS21	3	ASN
68	eS21	4	ASP
68	eS21	8	LEU
68	eS21	11	LEU
68	eS21	12	TYR
68	eS21	13	VAL
68	eS21	24	ILE
68	eS21	38	LYS
68	eS21	41	GLU
68	eS21	42	GLU
68	eS21	49	GLU
68	eS21	52	THR
68	eS21	62	ARG

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Mol	Chain	Res	Type
68	eS21	66	ASP
68	eS21	68	SER
68	eS21	69	LEU
68	eS21	81	ASN
69	uS8	15	ASN
69	uS8	37	PHE
69	uS8	40	VAL
69	uS8	55	ASP
69	uS8	58	SER
69	uS8	65	LEU
69	uS8	69	LEU
69	uS8	81	VAL
69	uS8	82	LYS
69	uS8	83	ILE
69	uS8	88	LYS
69	uS8	94	LEU
69	uS8	102	VAL
69	uS8	103	ILE
69	uS8	105	THR
69	uS8	119	LYS
69	uS8	125	ILE
70	uS12	9	LEU
70	uS12	14	LYS
70	uS12	33	LEU
70	uS12	36	THR
70	uS12	38	PHE
70	uS12	60	GLU
70	uS12	100	ASP
70	uS12	107	PHE
70	uS12	125	VAL
70	uS12	128	SER
70	uS12	132	LEU
70	uS12	133	LEU
70	uS12	138	GLU
70	uS12	139	LYS
70	uS12	141	GLU
70	uS12	142	LYS
70	uS12	144	ARG
71	eS24	5	VAL
71	eS24	6	THR
71	eS24	9	THR
71	eS24	12	VAL

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Mol	Chain	Res	Type
71	eS24	20	ARG
71	eS24	24	VAL
71	eS24	27	VAL
71	eS24	28	LEU
71	eS24	34	ASN
71	eS24	36	SER
71	eS24	38	ASP
71	eS24	44	LEU
71	eS24	48	TYR
71	eS24	55	VAL
71	eS24	62	THR
71	eS24	63	GLN
71	eS24	74	LEU
71	eS24	79	VAL
71	eS24	84	LYS
71	eS24	93	ARG
71	eS24	99	LYS
71	eS24	101	GLU
71	eS24	112	LYS
72	eS25	40	VAL
72	eS25	41	ILE
72	eS25	42	LEU
72	eS25	50	ILE
72	eS25	54	VAL
72	eS25	58	ARG
72	eS25	62	VAL
72	eS25	63	SER
72	eS25	84	GLU
72	eS25	88	ILE
72	eS25	90	LYS
72	eS25	96	SER
73	eS26	12	LYS
73	eS26	13	LYS
73	eS26	15	ARG
73	eS26	18	VAL
73	eS26	28	LYS
73	eS26	29	SER
73	eS26	34	LYS
73	eS26	39	MET
73	eS26	41	ILE
73	eS26	44	ILE
73	eS26	66	LYS

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Mol	Chain	Res	Type
73	eS26	76	SER
73	eS26	82	ARG
73	eS26	86	VAL
73	eS26	88	SER
74	eS27	3	LEU
74	eS27	17	ARG
74	eS27	24	LEU
74	eS27	26	GLN
74	eS27	33	LEU
74	eS27	34	ASP
74	eS27	41	LEU
74	eS27	42	ASN
74	eS27	46	VAL
74	eS27	52	THR
74	eS27	63	LEU
74	eS27	64	CYS
74	eS27	72	LYS
74	eS27	73	LEU
74	eS27	77	THR
74	eS27	79	PHE
74	eS27	81	ARG
74	eS27	82	LYS
75	eS28	8	THR
75	eS28	9	LEU
75	eS28	15	VAL
75	eS28	22	ARG
75	eS28	30	VAL
75	eS28	32	PHE
75	eS28	33	LEU
75	eS28	36	THR
75	eS28	39	THR
75	eS28	40	ILE
75	eS28	49	ARG
75	eS28	50	GLU
75	eS28	60	GLU
75	eS28	61	ARG
75	eS28	62	GLU
75	eS28	64	ARG
75	eS28	65	ARG
76	uS14	8	PHE
76	uS14	9	SER
76	uS14	19	ARG

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Mol	Chain	Res	Type
76	uS14	32	ARG
76	uS14	36	LEU
76	uS14	50	ILE
77	eS30	7	SER
77	eS30	8	LEU
77	eS30	13	LYS
77	eS30	23	LYS
77	eS30	24	THR
77	eS30	47	VAL
77	eS30	57	ASN
78	RACK	5	GLU
78	RACK	7	LEU
78	RACK	8	VAL
78	RACK	14	GLU
78	RACK	21	THR
78	RACK	25	THR
78	RACK	31	ASN
78	RACK	32	LEU
78	RACK	35	SER
78	RACK	38	ARG
78	RACK	45	TRP
78	RACK	48	THR
78	RACK	50	ASP
78	RACK	53	LYS
78	RACK	66	HIS
78	RACK	73	LEU
78	RACK	76	ASP
78	RACK	84	SER
78	RACK	90	ARG
78	RACK	91	LEU
78	RACK	99	THR
78	RACK	103	PHE
78	RACK	106	HIS
78	RACK	113	VAL
78	RACK	123	ILE
78	RACK	136	ILE
78	RACK	143	THR
78	RACK	144	LEU
78	RACK	147	HIS
78	RACK	154	VAL
78	RACK	164	ASP
78	RACK	167	VAL

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Mol	Chain	Res	Type
78	RACK	178	VAL
78	RACK	183	LEU
78	RACK	184	ASN
78	RACK	186	PHE
78	RACK	189	GLU
78	RACK	193	ILE
78	RACK	217	ASP
78	RACK	231	MET
78	RACK	238	ASP
78	RACK	243	LEU
78	RACK	245	PHE
78	RACK	251	TRP
78	RACK	263	PHE
78	RACK	269	TYR
78	RACK	270	LEU
78	RACK	275	ARG
78	RACK	292	LEU
78	RACK	302	PHE
78	RACK	312	VAL
78	RACK	315	VAL
79	eS31	97	LYS
79	eS31	106	TYR
79	eS31	107	LYS
79	eS31	108	VAL
79	eS31	113	LYS
79	eS31	118	ARG
79	eS31	119	ARG
79	eS31	130	VAL
79	eS31	138	ARG
79	eS31	151	ASN
80	eEF2	2	VAL
80	eEF2	6	VAL
80	eEF2	7	ASP
80	eEF2	8	GLN
80	eEF2	19	VAL
80	eEF2	22	MET
80	eEF2	32	LYS
80	eEF2	34	THR
80	eEF2	36	THR
80	eEF2	41	GLN
80	eEF2	45	ILE
80	eEF2	53	GLU

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Mol	Chain	Res	Type
80	eEF2	68	ILE
80	eEF2	73	THR
80	eEF2	80	GLU
80	eEF2	90	LYS
80	eEF2	105	SER
80	eEF2	109	VAL
80	eEF2	110	ASP
80	eEF2	112	SER
80	eEF2	116	THR
80	eEF2	135	VAL
80	eEF2	166	GLU
80	eEF2	169	VAL
80	eEF2	177	THR
80	eEF2	233	PHE
80	eEF2	236	ASP
80	eEF2	254	THR
80	eEF2	256	LYS
80	eEF2	258	THR
80	eEF2	265	GLU
80	eEF2	286	THR
80	eEF2	292	LYS
80	eEF2	293	LYS
80	eEF2	299	LEU
80	eEF2	306	VAL
80	eEF2	308	LYS
80	eEF2	313	ASP
80	eEF2	314	LEU
80	eEF2	321	LYS
80	eEF2	322	VAL
80	eEF2	346	VAL
80	eEF2	355	GLN
80	eEF2	362	ASP
80	eEF2	369	ILE
80	eEF2	384	LYS
80	eEF2	393	ARG
80	eEF2	405	VAL
80	eEF2	406	LYS
80	eEF2	418	TYR
80	eEF2	434	VAL
80	eEF2	442	VAL
80	eEF2	445	ILE
80	eEF2	460	ASP

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Mol	Chain	Res	Type
80	eEF2	468	THR
80	eEF2	473	GLU
80	eEF2	477	ASN
80	eEF2	478	MET
80	eEF2	483	PHE
80	eEF2	484	SER
80	eEF2	489	VAL
80	eEF2	494	GLU
80	eEF2	495	VAL
80	eEF2	497	ASN
80	eEF2	510	ARG
80	eEF2	514	SER
80	eEF2	515	ASP
80	eEF2	522	MET
80	eEF2	525	SER
80	eEF2	533	THR
80	eEF2	536	LEU
80	eEF2	543	GLN
80	eEF2	548	ASP
80	eEF2	555	LYS
80	eEF2	556	ILE
80	eEF2	557	SER
80	eEF2	568	GLU
80	eEF2	574	THR
80	eEF2	591	GLU
80	eEF2	593	ILE
80	eEF2	594	ASP
80	eEF2	595	GLU
80	eEF2	596	GLU
80	eEF2	609	ARG
80	eEF2	617	ARG
80	eEF2	653	VAL
80	eEF2	654	GLN
80	eEF2	668	GLN
80	eEF2	684	VAL
80	eEF2	687	ASN
80	eEF2	688	ILE
80	eEF2	700	ARG
80	eEF2	745	SER
80	eEF2	747	LEU
80	eEF2	750	LYS
80	eEF2	756	SER

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Mol	Chain	Res	Type
80	eEF2	757	GLU
80	eEF2	758	GLU
80	eEF2	760	ARG
80	eEF2	767	THR
80	eEF2	771	TYR
80	eEF2	772	LEU
80	eEF2	774	VAL
80	eEF2	781	THR
80	eEF2	795	GLN
80	eEF2	802	SER
80	eEF2	809	LEU
80	eEF2	826	HIS
80	eEF2	841	LYS
80	eEF2	842	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	25S	3174/3396 (93%)	642 (20%)	32 (1%)
2	AB	120/121 (99%)	10 (8%)	1 (0%)
3	58S	157/753 (20%)	32 (20%)	2 (1%)
46	18S	1709/1798 (95%)	429 (25%)	24 (1%)
81	PSIT	76/77 (98%)	23 (30%)	4 (5%)
82	mRNA	2/3 (66%)	0	0
All	All	5238/6148 (85%)	1136 (21%)	63 (1%)

All (1136) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	25S	16	A
1	25S	26	A
1	25S	30	G
1	25S	40	A
1	25S	43	A
1	25S	45	A
1	25S	49	A
1	25S	51	A
1	25S	59	G

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Mol	Chain	Res	Type
1	25S	60	A
1	25S	65	A
1	25S	66	A
1	25S	73	C
1	25S	84	U
1	25S	85	A
1	25S	92	G
1	25S	99	A
1	25S	110	G
1	25S	111	C
1	25S	113	C
1	25S	116	A
1	25S	118	U
1	25S	120	G
1	25S	122	A
1	25S	131	C
1	25S	135	C
1	25S	136	G
1	25S	156	G
1	25S	157	A
1	25S	162	G
1	25S	165	A
1	25S	170	G
1	25S	173	G
1	25S	174	C
1	25S	176	G
1	25S	187	A
1	25S	190	U
1	25S	201	A
1	25S	206	G
1	25S	219	A
1	25S	220	G
1	25S	239	G
1	25S	240	U
1	25S	241	G
1	25S	243	G
1	25S	245	U
1	25S	250	U
1	25S	251	G
1	25S	252	U
1	25S	253	A
1	25S	263	C

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Mol	Chain	Res	Type
1	25S	269	G
1	25S	270	U
1	25S	286	U
1	25S	295	A
1	25S	305	U
1	25S	315	C
1	25S	316	U
1	25S	329	U
1	25S	338	A
1	25S	346	C
1	25S	350	C
1	25S	351	A
1	25S	370	U
1	25S	376	G
1	25S	377	A
1	25S	379	C
1	25S	398	A
1	25S	399	A
1	25S	401	U
1	25S	402	A
1	25S	403	C
1	25S	421	G
1	25S	422	A
1	25S	433	A
1	25S	435	C
1	25S	436	A
1	25S	437	G
1	25S	438	A
1	25S	439	C
1	25S	440	A
1	25S	495	G
1	25S	496	C
1	25S	520	U
1	25S	521	A
1	25S	523	A
1	25S	531	G
1	25S	532	A
1	25S	533	A
1	25S	534	U
1	25S	543	C
1	25S	547	G
1	25S	549	U

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Mol	Chain	Res	Type
1	25S	550	A
1	25S	556	U
1	25S	557	A
1	25S	559	A
1	25S	578	A
1	25S	589	A
1	25S	592	A
1	25S	593	C
1	25S	594	U
1	25S	602	A
1	25S	604	G
1	25S	607	A
1	25S	611	A
1	25S	612	U
1	25S	620	U
1	25S	621	A
1	25S	622	A
1	25S	636	C
1	25S	647	A
1	25S	649	A
1	25S	652	G
1	25S	660	A
1	25S	677	A
1	25S	678	G
1	25S	681	U
1	25S	689	U
1	25S	705	A
1	25S	707	U
1	25S	709	A
1	25S	712	G
1	25S	716	A
1	25S	718	G
1	25S	719	U
1	25S	733	G
1	25S	736	A
1	25S	739	G
1	25S	766	U
1	25S	767	U
1	25S	774	G
1	25S	775	A
1	25S	776	U
1	25S	777	U

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Mol	Chain	Res	Type
1	25S	780	A
1	25S	781	G
1	25S	785	G
1	25S	817	A
1	25S	818	C
1	25S	823	C
1	25S	830	A
1	25S	853	G
1	25S	860	G
1	25S	861	C
1	25S	869	G
1	25S	874	U
1	25S	879	U
1	25S	890	C
1	25S	896	A
1	25S	897	U
1	25S	907	G
1	25S	908	G
1	25S	914	A
1	25S	916	G
1	25S	917	A
1	25S	921	A
1	25S	923	C
1	25S	937	G
1	25S	944	C
1	25S	959	C
1	25S	960	U
1	25S	961	C
1	25S	974	G
1	25S	979	U
1	25S	980	A
1	25S	981	U
1	25S	993	G
1	25S	994	G
1	25S	1010	G
1	25S	1014	U
1	25S	1015	U
1	25S	1016	C
1	25S	1018	G
1	25S	1019	G
1	25S	1020	G
1	25S	1023	C

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Mol	Chain	Res	Type
1	25S	1025	A
1	25S	1026	A
1	25S	1028	U
1	25S	1029	G
1	25S	1036	A
1	25S	1037	C
1	25S	1041	U
1	25S	1047	A
1	25S	1057	A
1	25S	1064	A
1	25S	1065	A
1	25S	1072	G
1	25S	1081	U
1	25S	1093	A
1	25S	1094	U
1	25S	1095	U
1	25S	1096	U
1	25S	1097	G
1	25S	1098	A
1	25S	1102	A
1	25S	1103	A
1	25S	1104	G
1	25S	1117	G
1	25S	1131	G
1	25S	1144	U
1	25S	1150	A
1	25S	1152	G
1	25S	1153	A
1	25S	1159	A
1	25S	1161	G
1	25S	1174	G
1	25S	1180	A
1	25S	1181	U
1	25S	1182	A
1	25S	1191	U
1	25S	1192	C
1	25S	1193	A
1	25S	1196	C
1	25S	1201	C
1	25S	1209	G
1	25S	1218	U
1	25S	1221	A

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Mol	Chain	Res	Type
1	25S	1222	G
1	25S	1227	C
1	25S	1234	G
1	25S	1235	U
1	25S	1236	G
1	25S	1237	G
1	25S	1240	A
1	25S	1242	G
1	25S	1245	A
1	25S	1246	G
1	25S	1258	U
1	25S	1263	A
1	25S	1264	G
1	25S	1265	U
1	25S	1266	G
1	25S	1275	C
1	25S	1278	A
1	25S	1287	A
1	25S	1302	A
1	25S	1305	U
1	25S	1309	U
1	25S	1313	G
1	25S	1330	A
1	25S	1331	U
1	25S	1332	A
1	25S	1334	U
1	25S	1348	U
1	25S	1349	G
1	25S	1350	A
1	25S	1351	U
1	25S	1352	A
1	25S	1353	U
1	25S	1355	A
1	25S	1356	U
1	25S	1357	G
1	25S	1386	A
1	25S	1392	G
1	25S	1399	A
1	25S	1400	G
1	25S	1408	G
1	25S	1416	C
1	25S	1417	G

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Mol	Chain	Res	Type
1	25S	1418	A
1	25S	1425	U
1	25S	1428	A
1	25S	1430	U
1	25S	1433	A
1	25S	1434	G
1	25S	1437	C
1	25S	1443	G
1	25S	1446	A
1	25S	1450	G
1	25S	1451	C
1	25S	1468	A
1	25S	1469	C
1	25S	1481	A
1	25S	1482	A
1	25S	1496	C
1	25S	1508	C
1	25S	1527	C
1	25S	1536	G
1	25S	1539	A
1	25S	1555	U
1	25S	1556	C
1	25S	1557	A
1	25S	1562	C
1	25S	1563	C
1	25S	1576	G
1	25S	1577	G
1	25S	1579	C
1	25S	1581	C
1	25S	1582	C
1	25S	1583	A
1	25S	1587	A
1	25S	1589	A
1	25S	1593	A
1	25S	1605	A
1	25S	1606	U
1	25S	1619	A
1	25S	1621	A
1	25S	1622	U
1	25S	1629	U
1	25S	1632	A
1	25S	1643	A

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Mol	Chain	Res	Type
1	25S	1645	U
1	25S	1656	A
1	25S	1657	C
1	25S	1666	G
1	25S	1683	A
1	25S	1704	A
1	25S	1705	U
1	25S	1716	U
1	25S	1720	U
1	25S	1724	U
1	25S	1725	C
1	25S	1731	A
1	25S	1741	A
1	25S	1750	A
1	25S	1751	G
1	25S	1758	G
1	25S	1761	C
1	25S	1762	C
1	25S	1763	U
1	25S	1765	U
1	25S	1766	G
1	25S	1769	G
1	25S	1772	U
1	25S	1775	G
1	25S	1778	G
1	25S	1796	G
1	25S	1797	A
1	25S	1812	G
1	25S	1813	A
1	25S	1815	U
1	25S	1816	A
1	25S	1820	U
1	25S	1821	U
1	25S	1827	C
1	25S	1829	G
1	25S	1842	A
1	25S	1850	A
1	25S	1867	A
1	25S	1878	G
1	25S	1879	A
1	25S	1880	U
1	25S	1885	U

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Mol	Chain	Res	Type
1	25S	1886	A
1	25S	1903	U
1	25S	1906	G
1	25S	1935	G
1	25S	1948	G
1	25S	1952	G
1	25S	1953	G
1	25S	1954	G
1	25S	1955	U
1	25S	2098	C
1	25S	2101	C
1	25S	2102	U
1	25S	2112	U
1	25S	2113	A
1	25S	2122	G
1	25S	2126	A
1	25S	2131	A
1	25S	2140	U
1	25S	2158	A
1	25S	2169	G
1	25S	2170	U
1	25S	2171	G
1	25S	2179	C
1	25S	2188	A
1	25S	2192	C
1	25S	2198	A
1	25S	2201	G
1	25S	2206	G
1	25S	2207	A
1	25S	2209	U
1	25S	2210	G
1	25S	2222	A
1	25S	2225	U
1	25S	2244	A
1	25S	2248	C
1	25S	2252	A
1	25S	2256	A
1	25S	2257	C
1	25S	2262	A
1	25S	2269	U
1	25S	2270	A
1	25S	2273	G

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Mol	Chain	Res	Type
1	25S	2279	A
1	25S	2281	A
1	25S	2305	G
1	25S	2306	C
1	25S	2307	G
1	25S	2308	C
1	25S	2310	U
1	25S	2313	A
1	25S	2315	G
1	25S	2334	U
1	25S	2335	G
1	25S	2336	U
1	25S	2343	C
1	25S	2366	C
1	25S	2372	A
1	25S	2373	A
1	25S	2374	C
1	25S	2375	G
1	25S	2385	G
1	25S	2388	U
1	25S	2393	G
1	25S	2397	A
1	25S	2398	A
1	25S	2402	A
1	25S	2403	G
1	25S	2404	A
1	25S	2411	U
1	25S	2418	G
1	25S	2419	A
1	25S	2434	U
1	25S	2435	G
1	25S	2440	G
1	25S	2445	A
1	25S	2448	G
1	25S	2451	G
1	25S	2452	G
1	25S	2453	U
1	25S	2454	G
1	25S	2459	A
1	25S	2460	U
1	25S	2462	A
1	25S	2463	G

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Mol	Chain	Res	Type
1	25S	2464	U
1	25S	2465	G
1	25S	2478	C
1	25S	2479	C
1	25S	2480	A
1	25S	2481	G
1	25S	2482	U
1	25S	2483	G
1	25S	2484	A
1	25S	2485	A
1	25S	2486	A
1	25S	2488	A
1	25S	2489	C
1	25S	2491	A
1	25S	2492	C
1	25S	2494	A
1	25S	2496	C
1	25S	2500	A
1	25S	2501	U
1	25S	2502	A
1	25S	2503	G
1	25S	2505	U
1	25S	2511	A
1	25S	2514	U
1	25S	2515	A
1	25S	2536	A
1	25S	2539	C
1	25S	2540	A
1	25S	2541	U
1	25S	2542	U
1	25S	2543	U
1	25S	2549	G
1	25S	2552	C
1	25S	2554	A
1	25S	2555	G
1	25S	2560	C
1	25S	2561	A
1	25S	2568	C
1	25S	2569	A
1	25S	2570	U
1	25S	2572	C
1	25S	2573	G

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Mol	Chain	Res	Type
1	25S	2580	A
1	25S	2581	U
1	25S	2585	G
1	25S	2586	G
1	25S	2587	U
1	25S	2590	A
1	25S	2593	A
1	25S	2599	U
1	25S	2602	G
1	25S	2606	G
1	25S	2607	G
1	25S	2610	G
1	25S	2614	G
1	25S	2638	C
1	25S	2652	U
1	25S	2656	A
1	25S	2658	G
1	25S	2674	A
1	25S	2677	G
1	25S	2681	U
1	25S	2689	A
1	25S	2691	A
1	25S	2696	A
1	25S	2704	A
1	25S	2714	G
1	25S	2719	U
1	25S	2722	U
1	25S	2728	G
1	25S	2729	U
1	25S	2753	G
1	25S	2762	A
1	25S	2772	C
1	25S	2777	G
1	25S	2778	G
1	25S	2779	A
1	25S	2787	G
1	25S	2795	U
1	25S	2796	G
1	25S	2799	A
1	25S	2800	G
1	25S	2801	A
1	25S	2803	A

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Mol	Chain	Res	Type
1	25S	2808	A
1	25S	2810	C
1	25S	2814	G
1	25S	2817	A
1	25S	2829	U
1	25S	2842	U
1	25S	2843	U
1	25S	2845	A
1	25S	2847	A
1	25S	2860	U
1	25S	2865	U
1	25S	2867	C
1	25S	2871	G
1	25S	2872	A
1	25S	2887	A
1	25S	2898	G
1	25S	2899	C
1	25S	2906	C
1	25S	2911	A
1	25S	2914	G
1	25S	2935	U
1	25S	2936	A
1	25S	2939	G
1	25S	2942	C
1	25S	2947	G
1	25S	2955	U
1	25S	2971	A
1	25S	2976	A
1	25S	2979	U
1	25S	2983	C
1	25S	2985	C
1	25S	2990	G
1	25S	2996	U
1	25S	2997	G
1	25S	3012	A
1	25S	3048	A
1	25S	3056	U
1	25S	3059	G
1	25S	3078	U
1	25S	3079	U
1	25S	3092	C
1	25S	3093	C

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Mol	Chain	Res	Type
1	25S	3109	G
1	25S	3113	A
1	25S	3116	G
1	25S	3127	A
1	25S	3131	U
1	25S	3138	U
1	25S	3142	A
1	25S	3143	C
1	25S	3153	U
1	25S	3154	C
1	25S	3155	U
1	25S	3156	U
1	25S	3157	U
1	25S	3158	G
1	25S	3159	C
1	25S	3168	A
1	25S	3170	A
1	25S	3172	A
1	25S	3173	G
1	25S	3176	G
1	25S	3179	U
1	25S	3181	C
1	25S	3187	A
1	25S	3194	C
1	25S	3195	U
1	25S	3196	U
1	25S	3198	U
1	25S	3199	G
1	25S	3200	G
1	25S	3206	C
1	25S	3207	U
1	25S	3208	G
1	25S	3209	A
1	25S	3216	G
1	25S	3217	C
1	25S	3218	A
1	25S	3219	G
1	25S	3224	G
1	25S	3228	C
1	25S	3231	U
1	25S	3236	U
1	25S	3242	G

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Mol	Chain	Res	Type
1	25S	3244	A
1	25S	3246	G
1	25S	3253	G
1	25S	3256	G
1	25S	3264	G
1	25S	3269	U
1	25S	3270	U
1	25S	3271	G
1	25S	3275	U
1	25S	3276	G
1	25S	3277	U
1	25S	3279	A
1	25S	3280	U
1	25S	3281	U
1	25S	3288	G
1	25S	3290	G
1	25S	3294	A
1	25S	3295	A
1	25S	3304	U
1	25S	3313	U
1	25S	3316	A
1	25S	3335	A
1	25S	3339	A
1	25S	3341	U
1	25S	3345	G
1	25S	3348	G
1	25S	3349	C
1	25S	3351	U
1	25S	3352	U
1	25S	3353	G
1	25S	3354	U
1	25S	3355	U
1	25S	3356	G
1	25S	3358	U
1	25S	3363	U
1	25S	3368	U
1	25S	3369	G
1	25S	3377	G
1	25S	3378	C
1	25S	3381	U
1	25S	3382	U
1	25S	3383	G

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Mol	Chain	Res	Type
1	25S	3386	G
1	25S	3389	U
1	25S	3390	G
2	AB	7	G
2	AB	13	A
2	AB	40	C
2	AB	65	G
2	AB	73	C
2	AB	74	C
2	AB	76	A
2	AB	91	G
2	AB	112	G
2	AB	121	U
3	58S	21	C
3	58S	22	U
3	58S	34	U
3	58S	35	C
3	58S	53	A
3	58S	58	G
3	58S	59	A
3	58S	60	U
3	58S	62	C
3	58S	63	G
3	58S	80	A
3	58S	81	U
3	58S	82	U
3	58S	83	C
3	58S	84	C
3	58S	85	G
3	58S	86	U
3	58S	87	G
3	58S	90	U
3	58S	91	C
3	58S	95	G
3	58S	97	A
3	58S	104	A
3	58S	105	A
3	58S	106	C
3	58S	109	A
3	58S	113	U
3	58S	125	U
3	58S	126	A

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Mol	Chain	Res	Type
3	58S	127	U
3	58S	131	A
3	58S	157	U
46	18S	2	A
46	18S	4	C
46	18S	13	C
46	18S	17	C
46	18S	26	A
46	18S	34	G
46	18S	47	A
46	18S	60	U
46	18S	61	A
46	18S	62	A
46	18S	63	G
46	18S	65	A
46	18S	68	A
46	18S	78	A
46	18S	100	A
46	18S	114	C
46	18S	116	U
46	18S	122	U
46	18S	126	A
46	18S	127	G
46	18S	130	C
46	18S	137	U
46	18S	140	A
46	18S	143	G
46	18S	144	U
46	18S	145	A
46	18S	146	U
46	18S	153	G
46	18S	177	U
46	18S	179	A
46	18S	181	A
46	18S	184	C
46	18S	186	C
46	18S	200	A
46	18S	201	G
46	18S	202	A
46	18S	204	G
46	18S	217	A
46	18S	218	A

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Mol	Chain	Res	Type
46	18S	219	A
46	18S	245	U
46	18S	249	U
46	18S	254	A
46	18S	260	U
46	18S	261	U
46	18S	265	A
46	18S	268	C
46	18S	269	G
46	18S	270	C
46	18S	271	A
46	18S	272	U
46	18S	276	C
46	18S	277	U
46	18S	278	U
46	18S	280	U
46	18S	281	G
46	18S	299	A
46	18S	308	C
46	18S	313	U
46	18S	314	C
46	18S	316	A
46	18S	321	C
46	18S	322	G
46	18S	333	A
46	18S	337	G
46	18S	338	C
46	18S	359	A
46	18S	361	C
46	18S	376	C
46	18S	388	G
46	18S	400	A
46	18S	401	A
46	18S	402	C
46	18S	411	C
46	18S	419	G
46	18S	423	G
46	18S	424	C
46	18S	425	A
46	18S	426	G
46	18S	434	G
46	18S	437	A

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Mol	Chain	Res	Type
46	18S	439	U
46	18S	444	C
46	18S	445	A
46	18S	448	C
46	18S	468	A
46	18S	475	A
46	18S	486	G
46	18S	487	G
46	18S	488	G
46	18S	489	C
46	18S	490	C
46	18S	491	C
46	18S	495	C
46	18S	496	G
46	18S	498	G
46	18S	499	U
46	18S	503	G
46	18S	507	U
46	18S	515	A
46	18S	519	C
46	18S	527	A
46	18S	534	A
46	18S	535	A
46	18S	539	G
46	18S	540	G
46	18S	541	A
46	18S	542	A
46	18S	543	C
46	18S	544	A
46	18S	545	A
46	18S	549	G
46	18S	551	G
46	18S	554	C
46	18S	556	A
46	18S	557	G
46	18S	558	U
46	18S	565	C
46	18S	567	A
46	18S	568	G
46	18S	571	G
46	18S	578	U
46	18S	579	A

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Mol	Chain	Res	Type
46	18S	580	A
46	18S	594	A
46	18S	606	A
46	18S	609	U
46	18S	619	A
46	18S	620	A
46	18S	623	A
46	18S	624	G
46	18S	629	U
46	18S	630	A
46	18S	640	U
46	18S	644	C
46	18S	648	G
46	18S	649	U
46	18S	650	U
46	18S	652	G
46	18S	653	C
46	18S	654	C
46	18S	655	G
46	18S	656	G
46	18S	657	U
46	18S	658	C
46	18S	677	G
46	18S	679	U
46	18S	680	U
46	18S	681	U
46	18S	682	C
46	18S	683	C
46	18S	684	A
46	18S	685	A
46	18S	693	U
46	18S	696	C
46	18S	697	C
46	18S	698	U
46	18S	700	C
46	18S	702	G
46	18S	703	G
46	18S	705	U
46	18S	706	A
46	18S	707	A
46	18S	708	C
46	18S	709	C

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Mol	Chain	Res	Type
46	18S	710	U
46	18S	730	G
46	18S	731	C
46	18S	732	G
46	18S	733	A
46	18S	735	C
46	18S	736	C
46	18S	738	G
46	18S	741	C
46	18S	742	U
46	18S	743	U
46	18S	765	G
46	18S	766	U
46	18S	775	G
46	18S	780	A
46	18S	781	U
46	18S	783	G
46	18S	789	A
46	18S	793	A
46	18S	794	U
46	18S	796	A
46	18S	810	G
46	18S	811	A
46	18S	812	A
46	18S	813	U
46	18S	814	A
46	18S	815	G
46	18S	816	G
46	18S	820	U
46	18S	821	U
46	18S	827	C
46	18S	828	U
46	18S	829	A
46	18S	830	U
46	18S	831	U
46	18S	841	U
46	18S	850	A
46	18S	852	C
46	18S	859	A
46	18S	860	U
46	18S	861	U
46	18S	863	A

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Mol	Chain	Res	Type
46	18S	864	U
46	18S	886	U
46	18S	890	C
46	18S	895	G
46	18S	898	A
46	18S	913	G
46	18S	914	G
46	18S	915	A
46	18S	919	A
46	18S	933	A
46	18S	935	U
46	18S	951	A
46	18S	960	U
46	18S	964	U
46	18S	966	A
46	18S	973	A
46	18S	984	G
46	18S	987	G
46	18S	988	A
46	18S	991	G
46	18S	992	A
46	18S	993	A
46	18S	998	A
46	18S	1010	C
46	18S	1021	C
46	18S	1026	A
46	18S	1028	C
46	18S	1031	U
46	18S	1032	G
46	18S	1040	G
46	18S	1047	G
46	18S	1052	U
46	18S	1053	G
46	18S	1055	U
46	18S	1057	U
46	18S	1058	U
46	18S	1060	U
46	18S	1061	A
46	18S	1070	C
46	18S	1076	A
46	18S	1081	A
46	18S	1082	C

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Mol	Chain	Res	Type
46	18S	1083	G
46	18S	1092	A
46	18S	1094	G
46	18S	1097	U
46	18S	1100	G
46	18S	1109	G
46	18S	1135	U
46	18S	1138	A
46	18S	1139	A
46	18S	1143	A
46	18S	1146	G
46	18S	1150	G
46	18S	1151	A
46	18S	1154	G
46	18S	1158	C
46	18S	1159	C
46	18S	1164	G
46	18S	1172	G
46	18S	1185	U
46	18S	1188	G
46	18S	1189	A
46	18S	1190	C
46	18S	1191	U
46	18S	1192	C
46	18S	1194	A
46	18S	1196	A
46	18S	1199	G
46	18S	1200	G
46	18S	1202	A
46	18S	1203	A
46	18S	1207	C
46	18S	1216	C
46	18S	1217	A
46	18S	1218	G
46	18S	1227	A
46	18S	1228	G
46	18S	1229	G
46	18S	1230	A
46	18S	1244	A
46	18S	1245	G
46	18S	1246	C
46	18S	1252	C

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Mol	Chain	Res	Type
46	18S	1253	U
46	18S	1256	A
46	18S	1257	U
46	18S	1258	U
46	18S	1263	G
46	18S	1273	G
46	18S	1274	C
46	18S	1275	A
46	18S	1293	U
46	18S	1294	G
46	18S	1307	U
46	18S	1314	U
46	18S	1315	U
46	18S	1316	G
46	18S	1318	G
46	18S	1321	A
46	18S	1330	G
46	18S	1336	A
46	18S	1337	A
46	18S	1339	C
46	18S	1340	U
46	18S	1341	A
46	18S	1342	C
46	18S	1344	A
46	18S	1345	A
46	18S	1346	A
46	18S	1349	G
46	18S	1354	G
46	18S	1361	U
46	18S	1363	U
46	18S	1370	U
46	18S	1371	A
46	18S	1372	U
46	18S	1373	C
46	18S	1380	U
46	18S	1383	G
46	18S	1390	U
46	18S	1391	A
46	18S	1397	U
46	18S	1398	U
46	18S	1399	C
46	18S	1402	G

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Mol	Chain	Res	Type
46	18S	1413	U
46	18S	1414	U
46	18S	1415	U
46	18S	1425	A
46	18S	1427	A
46	18S	1428	G
46	18S	1432	U
46	18S	1433	G
46	18S	1436	A
46	18S	1445	G
46	18S	1454	G
46	18S	1457	C
46	18S	1459	C
46	18S	1460	A
46	18S	1461	C
46	18S	1471	A
46	18S	1472	C
46	18S	1473	U
46	18S	1474	G
46	18S	1482	C
46	18S	1490	C
46	18S	1492	A
46	18S	1493	A
46	18S	1494	C
46	18S	1499	G
46	18S	1500	C
46	18S	1501	C
46	18S	1510	U
46	18S	1514	U
46	18S	1516	A
46	18S	1517	U
46	18S	1518	C
46	18S	1521	G
46	18S	1523	G
46	18S	1524	A
46	18S	1533	C
46	18S	1535	U
46	18S	1536	G
46	18S	1537	C
46	18S	1538	U
46	18S	1554	U
46	18S	1557	U

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Mol	Chain	Res	Type
46	18S	1558	U
46	18S	1559	A
46	18S	1565	C
46	18S	1573	A
46	18S	1575	G
46	18S	1584	G
46	18S	1590	G
46	18S	1600	A
46	18S	1601	G
46	18S	1607	G
46	18S	1616	G
46	18S	1634	C
46	18S	1635	A
46	18S	1651	A
46	18S	1657	U
46	18S	1658	G
46	18S	1678	A
46	18S	1680	G
46	18S	1681	A
46	18S	1683	C
46	18S	1687	U
46	18S	1690	G
46	18S	1694	A
46	18S	1696	G
46	18S	1697	G
46	18S	1698	G
46	18S	1699	G
46	18S	1700	C
46	18S	1701	A
46	18S	1702	A
46	18S	1703	C
46	18S	1705	C
46	18S	1707	A
46	18S	1709	C
46	18S	1710	U
46	18S	1713	G
46	18S	1714	A
46	18S	1715	G
46	18S	1717	G
46	18S	1731	A
46	18S	1736	G
46	18S	1756	A

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Mol	Chain	Res	Type
46	18S	1760	G
46	18S	1762	A
46	18S	1766	A
46	18S	1769	U
46	18S	1770	U
46	18S	1782	A
46	18S	1783	C
46	18S	1792	G
46	18S	1793	G
46	18S	1794	A
46	18S	1795	U
46	18S	1796	C
81	PSIT	9	G
81	PSIT	12	G
81	PSIT	14	A
81	PSIT	16	C
81	PSIT	17	C
81	PSIT	18	C
81	PSIT	19	G
81	PSIT	20	G
81	PSIT	21	U
81	PSIT	22	A
81	PSIT	25	U
81	PSIT	27	G
81	PSIT	32	G
81	PSIT	45	A
81	PSIT	48	U
81	PSIT	50	G
81	PSIT	53	G
81	PSIT	57	C
81	PSIT	58	A
81	PSIT	59	A
81	PSIT	65	G
81	PSIT	66	C
81	PSIT	77	A

All (63) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	25S	109	A
1	25S	240	U
1	25S	437	G

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Mol	Chain	Res	Type
1	25S	594	U
1	25S	619	A
1	25S	873	C
1	25S	896	A
1	25S	916	G
1	25S	937	G
1	25S	960	U
1	25S	1096	U
1	25S	1160	C
1	25S	1222	G
1	25S	1317	A
1	25S	1331	U
1	25S	1348	U
1	25S	1352	A
1	25S	1481	A
1	25S	1562	C
1	25S	1605	A
1	25S	1704	A
1	25S	1820	U
1	25S	2101	C
1	25S	2372	A
1	25S	2418	G
1	25S	2728	G
1	25S	2842	U
1	25S	2859	U
1	25S	2954	U
1	25S	3115	C
1	25S	3206	C
1	25S	3382	U
2	AB	72	A
3	58S	84	C
3	58S	126	A
46	18S	1	U
46	18S	313	U
46	18S	400	A
46	18S	679	U
46	18S	742	U
46	18S	815	G
46	18S	859	A
46	18S	1039	A
46	18S	1082	C
46	18S	1108	G

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Mol	Chain	Res	Type
46	18S	1244	A
46	18S	1273	G
46	18S	1274	C
46	18S	1335	U
46	18S	1339	C
46	18S	1362	U
46	18S	1397	U
46	18S	1458	G
46	18S	1481	C
46	18S	1489	U
46	18S	1491	U
46	18S	1600	A
46	18S	1633	A
46	18S	1657	U
81	PSIT	20	G
81	PSIT	21	U
81	PSIT	24	C
81	PSIT	61	U

5.4 Non-standard residues in protein, DNA, RNA chains

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

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry

Of 504 ligands modelled in this entry, 503 are monoatomic - leaving 1 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
46	18S	1
2	AB	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	18S	1798:U	O3'	1799:U	P	2.81
1	AB	1:G	O3'	2:G	P	1.27

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	25S	3180/3396 (93%)	-0.33	16 (0%) 91 75	63, 98, 191, 291	0
2	AB	121/121 (100%)	-0.48	0 100 100	50, 106, 130, 137	0
3	58S	158/753 (20%)	-0.31	0 100 100	94, 112, 155, 220	0
4	uL10	199/312 (63%)	0.15	10 (5%) 28 10	108, 158, 184, 198	0
5	uL2	247/254 (97%)	-0.23	0 100 100	66, 83, 105, 128	0
6	uL3	386/387 (99%)	-0.15	4 (1%) 82 59	64, 90, 116, 149	0
7	uL4	361/362 (99%)	0.16	21 (5%) 23 7	73, 117, 142, 153	0
8	uL18	296/297 (99%)	0.81	52 (17%) 1 0	87, 126, 161, 193	0
9	eL6	156/176 (88%)	-0.34	0 100 100	94, 130, 164, 174	0
10	uL30	222/244 (90%)	0.25	10 (4%) 33 12	71, 95, 146, 201	0
11	eL8	229/256 (89%)	0.91	46 (20%) 1 0	98, 137, 184, 206	0
12	uL6	191/191 (100%)	0.28	5 (2%) 56 27	81, 99, 125, 166	0
13	uL16	210/221 (95%)	-0.05	3 (1%) 75 49	74, 95, 131, 145	0
14	uL5	169/174 (97%)	0.61	14 (8%) 11 3	97, 135, 157, 176	0
15	eL13	193/199 (96%)	0.74	27 (13%) 2 1	79, 129, 173, 189	0
16	eL14	136/138 (98%)	-0.13	1 (0%) 87 69	84, 103, 144, 159	0
17	eL15	203/204 (99%)	0.63	19 (9%) 8 3	78, 106, 125, 141	0
18	uL13	197/199 (98%)	-0.01	2 (1%) 82 59	67, 85, 135, 156	0
19	uL22	154/184 (83%)	0.76	22 (14%) 2 1	75, 96, 121, 165	0
20	eL18	185/186 (99%)	0.71	34 (18%) 1 0	88, 113, 128, 142	0
21	eL19	174/189 (92%)	0.32	12 (6%) 16 5	73, 99, 191, 198	0
22	eL20	172/172 (100%)	0.49	13 (7%) 13 4	76, 92, 116, 138	0
23	eL21	159/160 (99%)	0.67	23 (14%) 2 1	80, 96, 162, 180	0
24	eL22	98/121 (80%)	0.84	15 (15%) 2 1	110, 149, 164, 175	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
25	uL14	132/137 (96%)	-0.01	1 (0%) 86 65	67, 82, 110, 131	0
26	eL24	63/155 (40%)	-0.31	0 100 100	74, 88, 113, 134	0
27	uL23	121/142 (85%)	0.82	18 (14%) 2 1	95, 121, 144, 161	0
28	uL24	126/127 (99%)	0.86	25 (19%) 1 0	105, 129, 148, 157	0
29	eL27	135/135 (100%)	-0.04	2 (1%) 73 46	95, 122, 144, 160	0
30	uL15	148/149 (99%)	1.27	42 (28%) 0 0	75, 113, 153, 162	0
31	eL29	58/59 (98%)	1.12	9 (15%) 2 1	69, 120, 160, 179	0
32	eL30	97/105 (92%)	0.75	12 (12%) 4 1	92, 114, 160, 181	0
33	eL31	109/113 (96%)	0.70	10 (9%) 9 3	82, 100, 168, 181	0
34	eL32	127/130 (97%)	0.67	17 (13%) 3 1	78, 105, 131, 152	0
35	eL33	106/107 (99%)	0.46	5 (4%) 31 11	78, 97, 133, 145	0
36	eL34	112/121 (92%)	0.02	2 (1%) 68 40	81, 100, 174, 186	0
37	uL29	119/120 (99%)	1.45	35 (29%) 0 0	108, 132, 151, 156	0
38	eL36	99/100 (99%)	0.64	15 (15%) 2 1	111, 131, 172, 188	0
39	eL37	85/88 (96%)	1.09	14 (16%) 1 0	70, 93, 138, 148	0
40	eL38	77/78 (98%)	-0.40	0 100 100	108, 135, 162, 176	0
41	eL39	50/51 (98%)	2.06	24 (48%) 0 0	84, 104, 129, 134	0
42	eL40	52/128 (40%)	-0.00	2 (3%) 40 16	73, 85, 109, 128	0
43	eL41	25/25 (100%)	1.47	8 (32%) 0 0	81, 100, 119, 122	0
44	eL42	105/106 (99%)	0.21	5 (4%) 30 11	73, 103, 147, 200	0
45	eL43	91/92 (98%)	-0.16	1 (1%) 80 56	70, 85, 107, 116	0
46	18S	1717/1798 (95%)	-0.43	35 (2%) 65 36	71, 114, 238, 323	0
47	uS2	202/252 (80%)	0.38	13 (6%) 19 6	107, 128, 152, 171	0
48	eS1	214/255 (83%)	0.04	6 (2%) 53 25	93, 122, 163, 179	0
49	uS5	217/254 (85%)	1.23	56 (25%) 0 0	89, 110, 141, 187	0
50	uS3	214/240 (89%)	0.83	37 (17%) 1 0	115, 146, 186, 198	0
51	eS4	258/261 (98%)	0.84	41 (15%) 1 1	93, 127, 151, 174	0
52	uS7	206/225 (91%)	0.68	27 (13%) 3 1	117, 152, 187, 196	0
53	eS6	223/236 (94%)	0.30	21 (9%) 8 3	92, 140, 176, 192	0
54	eS7	184/190 (96%)	1.81	62 (33%) 0 0	102, 171, 215, 234	0
55	eS8	188/200 (94%)	0.84	27 (14%) 2 1	87, 125, 172, 195	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
56	uS4	185/197 (93%)	0.39	6 (3%) 47 20	100, 125, 160, 214	0
57	eS10	96/105 (91%)	0.39	12 (12%) 3 1	136, 166, 201, 217	0
58	uS17	141/156 (90%)	1.18	26 (18%) 1 0	84, 108, 165, 191	0
59	eS12	124/143 (86%)	0.96	28 (22%) 0 0	190, 209, 229, 238	0
60	uS15	150/151 (99%)	0.51	11 (7%) 15 4	85, 116, 139, 146	0
61	uS11	127/137 (92%)	-0.03	4 (3%) 49 21	76, 113, 134, 162	0
62	uS19	117/142 (82%)	0.40	12 (10%) 6 2	110, 146, 182, 200	0
63	uS9	135/143 (94%)	1.24	36 (26%) 0 0	101, 151, 185, 189	0
64	eS17	121/136 (88%)	0.30	6 (4%) 28 10	111, 150, 185, 191	0
65	uS13	145/146 (99%)	0.76	21 (14%) 2 1	113, 144, 175, 192	0
66	eS19	143/144 (99%)	1.13	37 (25%) 0 0	110, 152, 174, 195	0
67	uS10	79/121 (65%)	1.70	28 (35%) 0 0	100, 161, 204, 212	0
68	eS21	87/87 (100%)	-0.18	2 (2%) 60 31	104, 122, 160, 173	0
69	uS8	129/130 (99%)	0.62	13 (10%) 7 2	90, 105, 117, 123	0
70	uS12	144/145 (99%)	0.56	8 (5%) 24 8	78, 91, 111, 139	0
71	eS24	134/135 (99%)	0.04	5 (3%) 41 17	96, 133, 171, 197	0
72	eS25	70/108 (64%)	0.21	5 (7%) 16 5	143, 169, 188, 198	0
73	eS26	97/119 (81%)	0.90	14 (14%) 2 1	84, 103, 168, 176	0
74	eS27	81/82 (98%)	0.02	2 (2%) 57 29	99, 122, 184, 194	0
75	eS28	61/67 (91%)	0.62	9 (14%) 2 1	121, 147, 188, 209	0
76	uS14	51/56 (91%)	0.92	13 (25%) 0 0	109, 123, 137, 145	0
77	eS30	56/63 (88%)	1.64	15 (26%) 0 0	94, 130, 199, 218	0
78	RACK	318/319 (99%)	1.17	76 (23%) 0 0	158, 192, 208, 223	0
79	eS31	63/152 (41%)	0.68	11 (17%) 1 0	165, 193, 205, 207	0
80	eEF2	842/842 (100%)	-0.00	25 (2%) 50 22	82, 117, 153, 173	0
81	PSIT	77/77 (100%)	-0.69	0 100 100	80, 152, 185, 191	0
82	mRNA	3/3 (100%)	1.54	1 (33%) 0 0	119, 119, 130, 140	0
83	uL11	137/165 (83%)	-0.41	6 (4%) 34 13	125, 139, 148, 157	0
All	All	17369/19346 (89%)	0.23	1353 (7%) 13 4	50, 116, 190, 323	0

All (1353) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
50	uS3	3	ALA	14.6
54	eS7	4	PRO	13.8
11	eL8	112	GLU	13.8
80	eEF2	1	MET	13.6
77	eS30	51	ASN	13.3
1	25S	1026	A	13.3
78	RACK	212	ALA	11.9
11	eL8	115	ALA	11.8
1	25S	1025	A	11.6
11	eL8	120	LYS	11.1
11	eL8	121	SER	10.9
30	uL15	149	ALA	10.9
66	eS19	29	GLU	10.8
77	eS30	48	THR	10.6
53	eS6	219	ARG	10.5
57	eS10	93	GLN	10.0
58	uS17	3	THR	9.8
65	uS13	145	ARG	9.6
77	eS30	54	ARG	9.5
54	eS7	7	LYS	9.3
54	eS7	93	LEU	9.2
50	uS3	4	LEU	9.1
11	eL8	131	ALA	9.0
4	uL10	46	ARG	8.9
78	RACK	309	VAL	8.8
53	eS6	220	LYS	8.7
59	eS12	136	ILE	8.6
54	eS7	36	ALA	8.6
1	25S	1762	C	8.4
78	RACK	141	LEU	8.4
78	RACK	11	GLY	8.4
15	eL13	132	ALA	8.3
44	eL42	105	GLN	8.3
62	uS19	51	SER	8.2
59	eS12	23	THR	8.1
79	eS31	152	ALA	8.0
59	eS12	22	VAL	8.0
77	eS30	49	LEU	7.8
15	eL13	133	PRO	7.8
4	uL10	47	GLY	7.6
58	uS17	25	VAL	7.6
77	eS30	52	GLY	7.5
78	RACK	100	TYR	7.4

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Mol	Chain	Res	Type	RSRZ
71	eS24	135	ASP	7.3
32	eL30	105	ALA	7.3
22	eL20	1	MET	7.2
19	uL22	126	ARG	7.2
78	RACK	7	LEU	7.2
59	eS12	24	ILE	7.2
11	eL8	118	GLU	7.1
53	eS6	169	TYR	7.0
15	eL13	128	ARG	7.0
57	eS10	12	HIS	7.0
11	eL8	130	TYR	7.0
77	eS30	53	LYS	6.9
4	uL10	48	ARG	6.9
78	RACK	73	LEU	6.9
24	eL22	108	TYR	6.9
58	uS17	27	THR	6.9
54	eS7	95	GLU	6.8
15	eL13	129	ASN	6.7
54	eS7	44	LYS	6.7
11	eL8	109	LEU	6.7
55	eS8	68	ALA	6.7
41	eL39	51	ILE	6.7
37	uL29	2	ALA	6.7
11	eL8	133	LYS	6.7
57	eS10	92	ILE	6.7
78	RACK	253	ALA	6.7
8	uL18	181	PRO	6.6
58	uS17	30	ARG	6.6
67	uS10	84	MET	6.6
63	uS9	12	LYS	6.6
80	eEF2	842	LEU	6.5
11	eL8	119	GLY	6.5
78	RACK	74	THR	6.5
54	eS7	10	SER	6.5
54	eS7	8	ILE	6.5
46	18S	737	A	6.4
1	25S	1027	A	6.4
67	uS10	65	ILE	6.3
78	RACK	213	SER	6.2
65	uS13	146	ALA	6.2
65	uS13	74	GLN	6.2
28	uL24	79	ALA	6.2

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Mol	Chain	Res	Type	RSRZ
55	eS8	67	TRP	6.1
46	18S	709	C	6.1
46	18S	739	G	6.1
50	uS3	142	LEU	6.1
78	RACK	115	ILE	6.1
53	eS6	167	LYS	6.0
63	uS9	20	ALA	6.0
54	eS7	91	ILE	6.0
11	eL8	132	VAL	6.0
38	eL36	2	THR	6.0
78	RACK	34	LEU	6.0
1	25S	241	G	6.0
67	uS10	82	TYR	6.0
66	eS19	27	LYS	5.9
66	eS19	28	LEU	5.9
12	uL6	191	LEU	5.9
54	eS7	42	GLN	5.9
19	uL22	125	GLN	5.9
80	eEF2	696	ASP	5.8
54	eS7	11	GLN	5.8
30	uL15	116	GLY	5.8
31	eL29	33	LYS	5.8
8	uL18	2	ALA	5.7
54	eS7	35	LYS	5.7
54	eS7	94	ALA	5.7
11	eL8	114	ALA	5.7
77	eS30	55	ARG	5.7
27	uL23	142	ILE	5.6
54	eS7	12	ALA	5.6
19	uL22	20	SER	5.6
80	eEF2	655	TYR	5.6
66	eS19	25	GLN	5.6
11	eL8	203	VAL	5.6
54	eS7	58	LEU	5.5
46	18S	740	A	5.5
60	uS15	151	ASN	5.5
66	eS19	55	TYR	5.5
66	eS19	31	PRO	5.5
78	RACK	214	ALA	5.5
54	eS7	63	PRO	5.5
31	eL29	58	LYS	5.5
8	uL18	131	LEU	5.5

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Mol	Chain	Res	Type	RSRZ
58	uS17	26	LYS	5.4
78	RACK	6	VAL	5.4
78	RACK	252	LEU	5.4
42	eL40	128	LYS	5.4
41	eL39	36	ARG	5.3
21	eL19	159	ALA	5.3
59	eS12	139	HIS	5.3
66	eS19	108	LEU	5.3
54	eS7	43	PHE	5.3
52	uS7	127	GLN	5.3
44	eL42	106	PHE	5.2
14	uL5	15	GLU	5.2
63	uS9	14	LYS	5.2
54	eS7	61	PHE	5.2
57	eS10	95	ARG	5.2
76	uS14	52	PHE	5.2
54	eS7	39	ARG	5.2
8	uL18	62	CYS	5.2
51	eS4	47	PHE	5.2
63	uS9	123	ARG	5.2
54	eS7	5	GLN	5.2
7	uL4	90	PHE	5.1
63	uS9	54	LEU	5.1
49	uS5	178	ILE	5.1
11	eL8	105	LYS	5.1
11	eL8	202	GLU	5.1
41	eL39	50	ASN	5.1
76	uS14	54	LYS	5.1
78	RACK	12	THR	5.1
33	eL31	112	ASP	5.1
54	eS7	31	SER	5.0
55	eS8	152	ILE	5.0
58	uS17	24	LYS	5.0
53	eS6	165	GLY	5.0
55	eS8	148	ALA	4.9
50	uS3	143	ARG	4.9
65	uS13	46	VAL	4.9
52	uS7	39	GLU	4.9
79	eS31	151	ASN	4.9
78	RACK	311	ARG	4.9
77	eS30	45	VAL	4.9
53	eS6	218	GLU	4.9

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Mol	Chain	Res	Type	RSRZ
80	eEF2	830	GLU	4.9
31	eL29	59	LYS	4.9
54	eS7	17	GLU	4.9
72	eS25	56	THR	4.8
8	uL18	296	GLN	4.8
52	uS7	70	VAL	4.8
78	RACK	33	LEU	4.8
78	RACK	8	VAL	4.8
53	eS6	216	LEU	4.8
69	uS8	41	MET	4.8
63	uS9	13	LYS	4.8
11	eL8	198	ALA	4.8
11	eL8	199	ALA	4.8
65	uS13	142	GLY	4.8
63	uS9	70	THR	4.8
39	eL37	11	ARG	4.8
46	18S	658	C	4.8
77	eS30	47	VAL	4.8
8	uL18	130	GLU	4.8
49	uS5	196	VAL	4.8
82	mRNA	1	A	4.7
31	eL29	25	LYS	4.7
65	uS13	42	TYR	4.7
78	RACK	277	GLU	4.7
44	eL42	104	LEU	4.7
52	uS7	71	ALA	4.7
66	eS19	105	LEU	4.7
54	eS7	50	ASP	4.6
80	eEF2	2	VAL	4.6
24	eL22	33	TYR	4.6
15	eL13	134	GLU	4.6
67	uS10	66	SER	4.6
17	eL15	145	ASP	4.6
49	uS5	95	ARG	4.6
41	eL39	46	ARG	4.6
7	uL4	82	THR	4.6
37	uL29	115	LYS	4.6
77	eS30	50	VAL	4.5
27	uL23	122	ALA	4.5
53	eS6	211	LEU	4.5
70	uS12	71	CYS	4.5
19	uL22	141	SER	4.5

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Mol	Chain	Res	Type	RSRZ
67	uS10	99	ILE	4.5
51	eS4	225	VAL	4.5
23	eL21	53	PRO	4.5
52	uS7	135	ASP	4.5
43	eL41	25	LYS	4.5
52	uS7	41	LYS	4.5
50	uS3	178	ARG	4.5
30	uL15	144	VAL	4.5
41	eL39	42	ARG	4.4
63	uS9	18	ALA	4.4
53	eS6	208	TYR	4.4
50	uS3	5	ILE	4.4
27	uL23	50	ALA	4.4
14	uL5	174	LYS	4.4
54	eS7	38	LEU	4.4
46	18S	707	A	4.4
78	RACK	211	ILE	4.4
59	eS12	133	LEU	4.4
67	uS10	85	ARG	4.4
37	uL29	120	ALA	4.4
78	RACK	204	ALA	4.4
66	eS19	35	ASP	4.4
55	eS8	151	LYS	4.4
54	eS7	9	LEU	4.4
20	eL18	168	THR	4.4
59	eS12	135	MET	4.4
65	uS13	47	CYS	4.4
55	eS8	96	LEU	4.4
8	uL18	123	GLU	4.3
33	eL31	110	GLU	4.3
63	uS9	17	THR	4.3
76	uS14	36	LEU	4.3
51	eS4	54	TYR	4.3
19	uL22	23	ARG	4.3
55	eS8	149	SER	4.3
67	uS10	64	LYS	4.3
49	uS5	186	LYS	4.3
76	uS14	56	ARG	4.2
51	eS4	229	GLY	4.2
46	18S	710	U	4.2
54	eS7	22	GLN	4.2
46	18S	706	A	4.2

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Mol	Chain	Res	Type	RSRZ
19	uL22	22	LEU	4.2
73	eS26	47	ALA	4.2
66	eS19	30	VAL	4.2
31	eL29	26	THR	4.2
19	uL22	144	SER	4.2
27	uL23	111	ASN	4.2
80	eEF2	585	ARG	4.2
54	eS7	51	VAL	4.1
39	eL37	18	LEU	4.1
14	uL5	129	VAL	4.1
21	eL19	26	PRO	4.1
80	eEF2	410	LYS	4.1
60	uS15	72	MET	4.1
54	eS7	41	LEU	4.1
50	uS3	187	LYS	4.1
11	eL8	116	VAL	4.1
59	eS12	89	ILE	4.1
78	RACK	2	ALA	4.1
54	eS7	46	ILE	4.1
8	uL18	122	VAL	4.1
15	eL13	131	LYS	4.1
10	uL30	85	PHE	4.1
38	eL36	64	SER	4.1
8	uL18	175	HIS	4.1
54	eS7	40	PRO	4.0
54	eS7	48	GLU	4.0
78	RACK	276	PRO	4.0
11	eL8	93	LEU	4.0
67	uS10	98	GLN	4.0
43	eL41	24	SER	4.0
33	eL31	87	ASN	4.0
49	uS5	201	ASN	4.0
11	eL8	113	ALA	4.0
30	uL15	148	ILE	4.0
80	eEF2	692	THR	4.0
13	uL16	2	ALA	4.0
51	eS4	109	PHE	4.0
28	uL24	126	LEU	4.0
8	uL18	185	PHE	4.0
30	uL15	72	VAL	4.0
11	eL8	111	LYS	4.0
52	uS7	225	ARG	4.0

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Mol	Chain	Res	Type	RSRZ
24	eL22	94	ARG	3.9
8	uL18	203	HIS	3.9
58	uS17	42	PHE	3.9
67	uS10	49	ASN	3.9
67	uS10	61	LYS	3.9
22	eL20	126	VAL	3.9
54	eS7	92	PHE	3.9
54	eS7	32	PRO	3.9
78	RACK	10	ARG	3.9
8	uL18	171	LEU	3.9
49	uS5	185	LYS	3.9
54	eS7	148	LYS	3.9
78	RACK	263	PHE	3.9
19	uL22	128	ARG	3.9
37	uL29	105	ARG	3.9
30	uL15	146	GLU	3.9
63	uS9	115	THR	3.9
54	eS7	45	SER	3.9
19	uL22	124	LYS	3.9
54	eS7	49	ILE	3.9
11	eL8	106	LYS	3.9
41	eL39	28	ARG	3.9
55	eS8	184	LEU	3.9
67	uS10	63	LEU	3.9
58	uS17	4	GLU	3.9
54	eS7	64	VAL	3.8
57	eS10	4	PRO	3.8
78	RACK	60	SER	3.8
58	uS17	5	LEU	3.8
11	eL8	100	GLU	3.8
65	uS13	71	GLN	3.8
67	uS10	62	VAL	3.8
78	RACK	23	LEU	3.8
78	RACK	305	TYR	3.8
79	eS31	129	GLY	3.8
32	eL30	104	LEU	3.8
46	18S	697	C	3.8
79	eS31	107	LYS	3.8
80	eEF2	3	ALA	3.8
15	eL13	23	LYS	3.8
14	uL5	72	ARG	3.8
30	uL15	145	VAL	3.8

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Mol	Chain	Res	Type	RSRZ
30	uL15	110	GLY	3.8
28	uL24	33	ALA	3.8
41	eL39	12	LYS	3.8
50	uS3	141	LYS	3.8
78	RACK	101	GLN	3.8
53	eS6	215	ARG	3.8
54	eS7	34	LEU	3.8
65	uS13	73	MET	3.8
60	uS15	43	LYS	3.8
28	uL24	74	TYR	3.7
46	18S	738	G	3.7
67	uS10	57	ARG	3.7
32	eL30	9	SER	3.7
56	uS4	20	GLU	3.7
67	uS10	88	LYS	3.7
63	uS9	117	LEU	3.7
66	eS19	36	ILE	3.7
50	uS3	206	VAL	3.7
11	eL8	134	TYR	3.7
51	eS4	103	TYR	3.7
78	RACK	55	GLY	3.7
49	uS5	81	MET	3.7
32	eL30	43	ILE	3.7
66	eS19	92	LYS	3.7
11	eL8	152	LEU	3.7
52	uS7	68	ILE	3.7
28	uL24	75	ARG	3.7
51	eS4	133	LYS	3.7
51	eS4	226	PHE	3.7
63	uS9	79	TYR	3.7
55	eS8	146	ARG	3.7
58	uS17	28	SER	3.7
46	18S	820	U	3.6
20	eL18	103	ALA	3.6
20	eL18	167	SER	3.6
64	eS17	70	SER	3.6
80	eEF2	693	LEU	3.6
34	eL32	50	ILE	3.6
34	eL32	35	GLN	3.6
41	eL39	4	GLN	3.6
51	eS4	110	ALA	3.6
34	eL32	52	GLN	3.6

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Mol	Chain	Res	Type	RSRZ
61	uS11	28	VAL	3.6
27	uL23	60	TYR	3.6
27	uL23	82	LEU	3.6
79	eS31	146	SER	3.6
65	uS13	144	ARG	3.6
11	eL8	122	LYS	3.6
52	uS7	38	THR	3.6
54	eS7	30	SER	3.6
22	eL20	75	PHE	3.6
67	uS10	67	THR	3.6
80	eEF2	694	HIS	3.6
49	uS5	207	LEU	3.6
49	uS5	162	CYS	3.6
27	uL23	84	PHE	3.6
8	uL18	126	GLU	3.6
20	eL18	148	GLU	3.6
41	eL39	35	ILE	3.6
54	eS7	97	ARG	3.5
20	eL18	163	PRO	3.5
46	18S	733	A	3.5
47	uS2	112	THR	3.5
50	uS3	152	PHE	3.5
59	eS12	21	GLU	3.5
49	uS5	113	LEU	3.5
78	RACK	22	SER	3.5
63	uS9	43	ILE	3.5
30	uL15	113	LEU	3.5
78	RACK	181	TRP	3.5
27	uL23	121	LYS	3.5
49	uS5	47	ALA	3.5
19	uL22	146	ILE	3.5
80	eEF2	691	VAL	3.5
17	eL15	148	TYR	3.5
73	eS26	18	VAL	3.5
8	uL18	61	ILE	3.5
4	uL10	45	LEU	3.5
4	uL10	93	LEU	3.5
30	uL15	75	LEU	3.5
50	uS3	117	ARG	3.5
54	eS7	13	PRO	3.5
17	eL15	195	ASN	3.5
49	uS5	209	ASN	3.5

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Mol	Chain	Res	Type	RSRZ
52	uS7	204	GLY	3.5
37	uL29	97	ALA	3.5
46	18S	704	C	3.4
50	uS3	109	LEU	3.4
72	eS25	105	THR	3.4
59	eS12	128	ALA	3.4
41	eL39	25	GLN	3.4
67	uS10	102	ARG	3.4
83	uL11	156	ASN	3.4
59	eS12	63	VAL	3.4
51	eS4	204	GLY	3.4
52	uS7	92	ARG	3.4
51	eS4	207	LEU	3.4
8	uL18	64	ILE	3.4
67	uS10	103	ILE	3.4
47	uS2	113	ARG	3.4
10	uL30	86	VAL	3.4
24	eL22	105	LEU	3.4
50	uS3	153	ALA	3.4
20	eL18	160	GLY	3.4
49	uS5	208	GLU	3.4
15	eL13	160	GLN	3.4
19	uL22	127	ARG	3.4
8	uL18	146	LEU	3.4
37	uL29	108	GLN	3.4
55	eS8	119	GLN	3.4
7	uL4	187	LEU	3.4
80	eEF2	587	TYR	3.4
63	uS9	90	VAL	3.4
37	uL29	44	ILE	3.4
37	uL29	70	TYR	3.4
65	uS13	125	ILE	3.3
66	eS19	21	PHE	3.3
50	uS3	43	PRO	3.3
46	18S	493	U	3.3
63	uS9	95	LYS	3.3
49	uS5	87	GLN	3.3
38	eL36	80	PHE	3.3
55	eS8	100	ALA	3.3
78	RACK	308	ASN	3.3
67	uS10	48	HIS	3.3
17	eL15	144	ARG	3.3

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Mol	Chain	Res	Type	RSRZ
20	eL18	155	MET	3.3
41	eL39	44	TRP	3.3
22	eL20	74	ASN	3.3
58	uS17	22	ASN	3.3
59	eS12	80	ASN	3.3
39	eL37	9	GLY	3.3
8	uL18	295	GLY	3.3
24	eL22	25	ASN	3.3
52	uS7	154	ALA	3.3
19	uL22	21	TYR	3.3
37	uL29	92	LEU	3.3
8	uL18	95	TRP	3.3
8	uL18	49	TYR	3.3
21	eL19	156	ASN	3.3
51	eS4	131	LEU	3.3
20	eL18	161	LYS	3.3
49	uS5	200	SER	3.2
11	eL8	108	ARG	3.2
15	eL13	164	GLU	3.2
28	uL24	48	LEU	3.2
34	eL32	34	LYS	3.2
50	uS3	177	MET	3.2
55	eS8	185	GLU	3.2
63	uS9	50	GLU	3.2
54	eS7	47	ARG	3.2
67	uS10	34	LEU	3.2
1	25S	1028	U	3.2
37	uL29	84	LYS	3.2
51	eS4	251	GLU	3.2
72	eS25	41	ILE	3.2
8	uL18	297	GLN	3.2
30	uL15	65	GLN	3.2
11	eL8	129	PRO	3.2
46	18S	736	C	3.2
46	18S	741	C	3.2
41	eL39	49	MET	3.2
49	uS5	211	LEU	3.2
75	eS28	5	THR	3.2
80	eEF2	698	ILE	3.2
15	eL13	2	ALA	3.2
54	eS7	6	ALA	3.2
51	eS4	102	VAL	3.2

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Mol	Chain	Res	Type	RSRZ
57	eS10	79	TYR	3.2
51	eS4	191	ARG	3.2
78	RACK	3	SER	3.2
38	eL36	8	ALA	3.2
66	eS19	71	VAL	3.2
51	eS4	205	PHE	3.2
35	eL33	75	HIS	3.2
37	uL29	36	LEU	3.2
67	uS10	24	ILE	3.2
31	eL29	27	TYR	3.2
19	uL22	19	GLY	3.1
66	eS19	37	VAL	3.1
20	eL18	171	LYS	3.1
34	eL32	36	LYS	3.1
54	eS7	96	ARG	3.1
49	uS5	79	GLU	3.1
39	eL37	20	ASN	3.1
49	uS5	84	LYS	3.1
54	eS7	16	LEU	3.1
4	uL10	44	GLU	3.1
83	uL11	101	SER	3.1
6	uL3	289	ASP	3.1
37	uL29	106	LYS	3.1
11	eL8	140	VAL	3.1
50	uS3	144	ALA	3.1
78	RACK	75	ALA	3.1
24	eL22	36	TYR	3.1
49	uS5	94	GLN	3.1
78	RACK	144	LEU	3.1
53	eS6	142	ARG	3.1
14	uL5	49	LYS	3.1
39	eL37	65	ARG	3.1
50	uS3	134	CYS	3.1
20	eL18	166	LEU	3.1
53	eS6	221	ALA	3.1
58	uS17	6	THR	3.1
8	uL18	7	ALA	3.1
14	uL5	173	ASP	3.1
66	eS19	107	ALA	3.1
37	uL29	48	ARG	3.1
54	eS7	54	GLY	3.1
66	eS19	26	GLY	3.1

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Mol	Chain	Res	Type	RSRZ
11	eL8	144	GLU	3.1
78	RACK	83	ALA	3.1
41	eL39	48	LYS	3.1
52	uS7	50	GLU	3.1
66	eS19	104	VAL	3.1
80	eEF2	582	LYS	3.1
10	uL30	163	LEU	3.0
20	eL18	153	PHE	3.0
55	eS8	199	LYS	3.0
78	RACK	4	ASN	3.0
14	uL5	55	ARG	3.0
46	18S	1058	U	3.0
60	uS15	45	LEU	3.0
80	eEF2	656	LEU	3.0
49	uS5	40	LYS	3.0
23	eL21	124	VAL	3.0
49	uS5	249	ALA	3.0
67	uS10	86	ILE	3.0
58	uS17	140	VAL	3.0
49	uS5	210	THR	3.0
7	uL4	84	ARG	3.0
69	uS8	53	ILE	3.0
80	eEF2	658	GLU	3.0
77	eS30	58	PRO	3.0
8	uL18	195	LEU	3.0
23	eL21	55	LYS	3.0
52	uS7	128	ASN	3.0
55	eS8	35	ASN	3.0
8	uL18	294	ALA	3.0
50	uS3	184	ILE	3.0
59	eS12	77	GLY	3.0
59	eS12	132	GLU	3.0
28	uL24	73	VAL	3.0
63	uS9	114	ARG	3.0
76	uS14	48	ASN	3.0
80	eEF2	695	ALA	3.0
63	uS9	75	VAL	3.0
8	uL18	163	LEU	3.0
49	uS5	163	GLY	3.0
73	eS26	37	LYS	3.0
66	eS19	132	LEU	3.0
7	uL4	75	PRO	3.0

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Mol	Chain	Res	Type	RSRZ
37	uL29	61	GLN	3.0
50	uS3	179	GLN	3.0
7	uL4	67	THR	3.0
8	uL18	75	LEU	3.0
58	uS17	31	THR	3.0
38	eL36	78	GLY	3.0
53	eS6	161	GLU	3.0
67	uS10	83	GLU	3.0
51	eS4	248	ILE	3.0
78	RACK	13	LEU	3.0
78	RACK	314	GLN	3.0
8	uL18	129	TYR	3.0
50	uS3	120	TYR	3.0
60	uS15	149	LEU	3.0
78	RACK	262	VAL	3.0
54	eS7	55	LYS	3.0
44	eL42	36	PHE	3.0
62	uS19	102	PHE	3.0
19	uL22	136	ILE	2.9
32	eL30	45	ALA	2.9
38	eL36	70	ARG	2.9
17	eL15	56	LYS	2.9
34	eL32	18	LYS	2.9
73	eS26	72	HIS	2.9
15	eL13	124	ILE	2.9
30	uL15	124	ILE	2.9
32	eL30	44	ILE	2.9
14	uL5	17	LEU	2.9
8	uL18	77	ALA	2.9
54	eS7	62	VAL	2.9
55	eS8	34	ALA	2.9
78	RACK	24	ALA	2.9
67	uS10	81	THR	2.9
49	uS5	144	TRP	2.9
59	eS12	126	TRP	2.9
43	eL41	19	LYS	2.9
53	eS6	152	ASP	2.9
11	eL8	197	VAL	2.9
53	eS6	212	LEU	2.9
11	eL8	117	ALA	2.9
4	uL10	73	PHE	2.9
28	uL24	98	ASN	2.9

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Mol	Chain	Res	Type	RSRZ
30	uL15	42	ARG	2.9
31	eL29	2	ALA	2.9
62	uS19	101	ALA	2.9
76	uS14	51	GLY	2.9
14	uL5	71	VAL	2.9
30	uL15	147	LEU	2.9
7	uL4	70	ALA	2.9
76	uS14	34	TYR	2.9
78	RACK	229	LYS	2.9
7	uL4	63	GLU	2.9
49	uS5	121	VAL	2.9
19	uL22	140	GLU	2.9
46	18S	705	U	2.9
11	eL8	147	LYS	2.9
34	eL32	128	LEU	2.9
38	eL36	3	VAL	2.9
62	uS19	94	VAL	2.9
4	uL10	49	ALA	2.9
7	uL4	117	GLU	2.9
20	eL18	139	ILE	2.9
67	uS10	22	ILE	2.9
71	eS24	96	LEU	2.9
76	uS14	50	ILE	2.9
34	eL32	17	PHE	2.9
19	uL22	154	GLU	2.9
31	eL29	44	LYS	2.9
50	uS3	122	VAL	2.9
55	eS8	109	PHE	2.9
4	uL10	51	VAL	2.8
39	eL37	29	VAL	2.8
51	eS4	256	ARG	2.8
28	uL24	106	ILE	2.8
50	uS3	148	LYS	2.8
69	uS8	26	LEU	2.8
22	eL20	81	TYR	2.8
20	eL18	51	ALA	2.8
69	uS8	51	GLU	2.8
8	uL18	115	LEU	2.8
51	eS4	198	LYS	2.8
11	eL8	125	ALA	2.8
34	eL32	97	ALA	2.8
78	RACK	254	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
8	uL18	227	LEU	2.8
50	uS3	132	LYS	2.8
73	eS26	8	ASN	2.8
7	uL4	280	ILE	2.8
53	eS6	157	VAL	2.8
20	eL18	178	ARG	2.8
62	uS19	17	TYR	2.8
62	uS19	15	HIS	2.8
28	uL24	104	LEU	2.8
57	eS10	13	GLN	2.8
8	uL18	220	SER	2.8
63	uS9	65	ILE	2.8
30	uL15	76	ASP	2.8
57	eS10	91	TYR	2.8
60	uS15	40	TYR	2.8
14	uL5	127	PHE	2.8
32	eL30	10	ILE	2.8
79	eS31	96	LYS	2.8
36	eL34	2	ALA	2.8
59	eS12	88	LEU	2.8
37	uL29	76	GLN	2.8
49	uS5	80	VAL	2.8
66	eS19	54	PHE	2.8
11	eL8	97	TYR	2.8
46	18S	696	C	2.8
46	18S	735	C	2.8
52	uS7	73	THR	2.8
67	uS10	29	THR	2.8
73	eS26	73	TYR	2.8
7	uL4	249	ILE	2.8
41	eL39	45	ARG	2.8
66	eS19	73	VAL	2.8
50	uS3	188	ILE	2.8
28	uL24	111	LEU	2.8
19	uL22	145	HIS	2.8
55	eS8	21	PHE	2.8
8	uL18	208	MET	2.7
58	uS17	71	LEU	2.7
20	eL18	64	VAL	2.7
47	uS2	107	PHE	2.7
50	uS3	12	VAL	2.7
15	eL13	85	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
60	uS15	88	LEU	2.7
67	uS10	26	LEU	2.7
73	eS26	3	LYS	2.7
66	eS19	24	ARG	2.7
15	eL13	135	ALA	2.7
20	eL18	48	VAL	2.7
28	uL24	78	PHE	2.7
59	eS12	92	ALA	2.7
49	uS5	85	PRO	2.7
30	uL15	81	LEU	2.7
43	eL41	23	ARG	2.7
58	uS17	141	LYS	2.7
18	uL13	80	PHE	2.7
58	uS17	137	PHE	2.7
28	uL24	127	GLU	2.7
37	uL29	35	LYS	2.7
37	uL29	107	LYS	2.7
50	uS3	124	ARG	2.7
54	eS7	161	GLN	2.7
30	uL15	73	LEU	2.7
83	uL11	19	GLY	2.7
15	eL13	174	ARG	2.7
39	eL37	10	LYS	2.7
20	eL18	52	LEU	2.7
46	18S	708	C	2.7
69	uS8	5	SER	2.7
11	eL8	196	ALA	2.7
23	eL21	60	LYS	2.7
70	uS12	81	LYS	2.7
21	eL19	150	GLN	2.7
46	18S	1491	U	2.7
14	uL5	16	LYS	2.7
20	eL18	170	ARG	2.7
30	uL15	134	ALA	2.7
22	eL20	95	ARG	2.7
51	eS4	208	VAL	2.7
23	eL21	34	TYR	2.7
48	eS1	84	ILE	2.7
77	eS30	35	TYR	2.7
78	RACK	76	ASP	2.7
49	uS5	88	LYS	2.7
20	eL18	186	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
73	eS26	30	ILE	2.7
1	25S	1029	G	2.7
20	eL18	82	VAL	2.7
79	eS31	124	PRO	2.7
45	eL43	44	LYS	2.7
52	uS7	94	THR	2.7
8	uL18	160	PHE	2.7
28	uL24	20	PHE	2.7
33	eL31	57	GLN	2.7
8	uL18	159	VAL	2.7
12	uL6	53	ILE	2.7
20	eL18	158	HIS	2.7
27	uL23	59	SER	2.6
50	uS3	185	LYS	2.6
63	uS9	132	LYS	2.6
19	uL22	119	VAL	2.6
15	eL13	3	ILE	2.6
11	eL8	162	LEU	2.6
28	uL24	76	LEU	2.6
75	eS28	34	GLU	2.6
78	RACK	143	THR	2.6
52	uS7	40	ILE	2.6
54	eS7	59	ALA	2.6
66	eS19	113	ILE	2.6
78	RACK	79	TYR	2.6
83	uL11	70	ALA	2.6
24	eL22	56	VAL	2.6
46	18S	494	U	2.6
8	uL18	162	ALA	2.6
11	eL8	136	LEU	2.6
23	eL21	153	PRO	2.6
70	uS12	42	PRO	2.6
78	RACK	250	TYR	2.6
78	RACK	318	ALA	2.6
50	uS3	9	ARG	2.6
57	eS10	22	VAL	2.6
59	eS12	104	GLY	2.6
69	uS8	2	THR	2.6
10	uL30	87	VAL	2.6
23	eL21	104	GLU	2.6
53	eS6	166	GLU	2.6
54	eS7	82	GLU	2.6

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Mol	Chain	Res	Type	RSRZ
76	uS14	44	ARG	2.6
7	uL4	60	THR	2.6
1	25S	252	U	2.6
78	RACK	304	GLY	2.6
20	eL18	185	LYS	2.6
30	uL15	82	ILE	2.6
47	uS2	115	PHE	2.6
1	25S	240	U	2.6
8	uL18	151	GLN	2.6
34	eL32	96	ILE	2.6
54	eS7	60	ILE	2.6
20	eL18	151	ARG	2.6
78	RACK	142	ALA	2.6
50	uS3	172	THR	2.6
11	eL8	153	ILE	2.6
17	eL15	142	ILE	2.6
24	eL22	93	ILE	2.6
69	uS8	61	ILE	2.6
24	eL22	29	ASP	2.6
24	eL22	64	THR	2.6
50	uS3	186	VAL	2.6
63	uS9	69	VAL	2.6
17	eL15	134	LEU	2.6
24	eL22	104	ARG	2.6
74	eS27	7	LEU	2.6
62	uS19	104	GLN	2.6
47	uS2	116	LYS	2.6
62	uS19	30	THR	2.6
34	eL32	54	LYS	2.6
49	uS5	86	VAL	2.6
49	uS5	181	SER	2.6
65	uS13	2	SER	2.6
75	eS28	44	VAL	2.6
65	uS13	131	LEU	2.6
51	eS4	184	THR	2.6
79	eS31	106	TYR	2.5
1	25S	1022	U	2.5
30	uL15	46	ASP	2.5
11	eL8	110	THR	2.5
33	eL31	54	GLU	2.5
20	eL18	104	LEU	2.5
59	eS12	65	SER	2.5

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Mol	Chain	Res	Type	RSRZ
62	uS19	29	SER	2.5
66	eS19	143	ASP	2.5
65	uS13	13	HIS	2.5
65	uS13	55	HIS	2.5
41	eL39	37	TYR	2.5
50	uS3	118	ALA	2.5
66	eS19	50	ALA	2.5
12	uL6	28	VAL	2.5
78	RACK	20	VAL	2.5
23	eL21	75	ILE	2.5
51	eS4	175	PHE	2.5
21	eL19	34	GLN	2.5
22	eL20	2	ALA	2.5
59	eS12	138	GLU	2.5
63	uS9	24	ALA	2.5
66	eS19	106	GLN	2.5
37	uL29	114	ARG	2.5
49	uS5	98	PHE	2.5
1	25S	178	U	2.5
49	uS5	176	SER	2.5
52	uS7	145	ASP	2.5
23	eL21	66	ASN	2.5
51	eS4	183	VAL	2.5
78	RACK	104	VAL	2.5
33	eL31	71	LEU	2.5
66	eS19	140	LEU	2.5
20	eL18	164	ARG	2.5
37	uL29	109	ILE	2.5
51	eS4	228	ILE	2.5
56	uS4	62	ARG	2.5
46	18S	702	G	2.5
78	RACK	120	SER	2.5
63	uS9	16	ALA	2.5
76	uS14	53	ASN	2.5
52	uS7	76	ARG	2.5
8	uL18	198	TYR	2.5
11	eL8	151	VAL	2.5
17	eL15	198	SER	2.5
28	uL24	80	VAL	2.5
63	uS9	55	VAL	2.5
75	eS28	9	LEU	2.5
49	uS5	120	GLU	2.5

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Mol	Chain	Res	Type	RSRZ
30	uL15	126	LYS	2.5
46	18S	657	U	2.5
27	uL23	90	ALA	2.5
64	eS17	115	LEU	2.5
50	uS3	174	HIS	2.5
55	eS8	200	LYS	2.5
78	RACK	291	SER	2.5
8	uL18	25	GLU	2.5
13	uL16	24	ARG	2.5
58	uS17	23	PRO	2.5
8	uL18	60	ILE	2.5
17	eL15	151	ILE	2.5
52	uS7	130	ILE	2.5
66	eS19	144	GLU	2.5
28	uL24	14	LYS	2.5
28	uL24	35	LEU	2.5
35	eL33	83	ALA	2.5
66	eS19	110	LYS	2.5
72	eS25	47	TYR	2.5
78	RACK	274	LEU	2.5
15	eL13	127	PRO	2.5
20	eL18	174	ARG	2.5
37	uL29	63	ARG	2.5
38	eL36	7	ILE	2.5
47	uS2	128	SER	2.5
49	uS5	91	ARG	2.5
75	eS28	35	ASP	2.5
8	uL18	127	GLY	2.4
8	uL18	293	LEU	2.4
49	uS5	44	LEU	2.4
51	eS4	105	VAL	2.4
79	eS31	108	VAL	2.4
41	eL39	39	ALA	2.4
34	eL32	43	ARG	2.4
71	eS24	13	ILE	2.4
30	uL15	41	HIS	2.4
17	eL15	197	LEU	2.4
24	eL22	92	TRP	2.4
78	RACK	46	LYS	2.4
46	18S	127	G	2.4
23	eL21	119	ALA	2.4
34	eL32	74	PHE	2.4

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Mol	Chain	Res	Type	RSRZ
55	eS8	179	CYS	2.4
80	eEF2	93	THR	2.4
7	uL4	59	GLN	2.4
37	uL29	99	GLN	2.4
49	uS5	182	PRO	2.4
50	uS3	7	LYS	2.4
11	eL8	150	LEU	2.4
32	eL30	16	LEU	2.4
51	eS4	138	TYR	2.4
78	RACK	59	ARG	2.4
41	eL39	34	THR	2.4
58	uS17	138	ASN	2.4
1	25S	3156	U	2.4
56	uS4	65	LYS	2.4
20	eL18	150	VAL	2.4
1	25S	1023	C	2.4
10	uL30	132	PRO	2.4
38	eL36	60	LEU	2.4
41	eL39	23	LEU	2.4
10	uL30	27	ALA	2.4
20	eL18	102	ALA	2.4
49	uS5	180	ALA	2.4
20	eL18	173	GLU	2.4
51	eS4	147	ILE	2.4
79	eS31	111	GLU	2.4
17	eL15	193	ARG	2.4
52	uS7	79	ASN	2.4
54	eS7	105	THR	2.4
65	uS13	45	LEU	2.4
37	uL29	79	ASP	2.4
21	eL19	31	GLU	2.4
30	uL15	118	ILE	2.4
33	eL31	79	ARG	2.4
63	uS9	82	ARG	2.4
51	eS4	23	LEU	2.4
65	uS13	29	VAL	2.4
52	uS7	69	PHE	2.4
78	RACK	54	PHE	2.4
78	RACK	307	ASP	2.4
14	uL5	106	ILE	2.4
58	uS17	29	LYS	2.4
78	RACK	52	GLN	2.4

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Mol	Chain	Res	Type	RSRZ
23	eL21	65	TYR	2.4
33	eL31	94	GLU	2.4
49	uS5	141	ARG	2.4
55	eS8	147	ALA	2.4
69	uS8	52	TYR	2.4
1	25S	180	C	2.4
15	eL13	77	LEU	2.4
24	eL22	76	LEU	2.4
49	uS5	164	SER	2.4
78	RACK	210	LEU	2.4
63	uS9	10	PHE	2.4
46	18S	703	G	2.4
59	eS12	26	ASP	2.4
49	uS5	190	LEU	2.4
53	eS6	149	LYS	2.4
78	RACK	51	ASP	2.4
20	eL18	140	LEU	2.4
46	18S	1799	U	2.4
17	eL15	147	ARG	2.4
59	eS12	33	ARG	2.4
34	eL32	49	ASN	2.4
42	eL40	77	ILE	2.4
49	uS5	166	THR	2.4
71	eS24	133	ASN	2.4
80	eEF2	578	LYS	2.4
72	eS25	80	LEU	2.4
7	uL4	81	GLY	2.4
55	eS8	80	GLY	2.4
7	uL4	54	GLU	2.4
70	uS12	60	GLU	2.4
37	uL29	9	LEU	2.4
53	eS6	109	LEU	2.4
46	18S	217	A	2.3
52	uS7	20	PHE	2.3
58	uS17	116	ARG	2.3
78	RACK	92	TRP	2.3
63	uS9	109	PHE	2.3
23	eL21	152	ALA	2.3
36	eL34	90	ILE	2.3
54	eS7	52	ALA	2.3
69	uS8	27	ILE	2.3
22	eL20	77	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
59	eS12	91	VAL	2.3
73	eS26	89	ARG	2.3
58	uS17	60	PHE	2.3
39	eL37	54	LYS	2.3
59	eS12	90	LYS	2.3
11	eL8	161	GLU	2.3
55	eS8	70	GLU	2.3
56	uS4	186	GLU	2.3
43	eL41	18	ARG	2.3
52	uS7	93	LEU	2.3
30	uL15	70	LYS	2.3
63	uS9	71	GLY	2.3
22	eL20	123	ILE	2.3
19	uL22	24	VAL	2.3
80	eEF2	584	ASN	2.3
23	eL21	151	LEU	2.3
28	uL24	72	SER	2.3
30	uL15	68	PHE	2.3
33	eL31	96	VAL	2.3
41	eL39	47	THR	2.3
49	uS5	206	THR	2.3
8	uL18	51	LEU	2.3
49	uS5	197	TYR	2.3
63	uS9	92	TYR	2.3
37	uL29	47	VAL	2.3
38	eL36	6	GLY	2.3
46	18S	495	C	2.3
62	uS19	41	VAL	2.3
46	18S	729	G	2.3
66	eS19	72	GLY	2.3
30	uL15	117	ARG	2.3
62	uS19	71	GLU	2.3
21	eL19	7	GLN	2.3
30	uL15	79	TRP	2.3
27	uL23	112	THR	2.3
37	uL29	43	LYS	2.3
41	eL39	43	ASN	2.3
50	uS3	182	LEU	2.3
54	eS7	179	LYS	2.3
66	eS19	101	ASN	2.3
78	RACK	223	TRP	2.3
74	eS27	53	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
51	eS4	167	GLY	2.3
23	eL21	88	ARG	2.3
75	eS28	61	ARG	2.3
28	uL24	125	LYS	2.3
38	eL36	4	LYS	2.3
49	uS5	240	LEU	2.3
64	eS17	16	LEU	2.3
65	uS13	85	PHE	2.3
7	uL4	55	LYS	2.3
30	uL15	111	LYS	2.3
49	uS5	134	LEU	2.3
54	eS7	77	LEU	2.3
61	uS11	76	ILE	2.3
32	eL30	87	VAL	2.3
37	uL29	38	ARG	2.3
56	uS4	17	ARG	2.3
8	uL18	236	LEU	2.3
13	uL16	112	GLN	2.3
30	uL15	38	GLN	2.3
37	uL29	75	TYR	2.3
77	eS30	46	ASN	2.3
30	uL15	105	LEU	2.3
27	uL23	95	ILE	2.3
47	uS2	127	ARG	2.3
50	uS3	158	ILE	2.3
53	eS6	217	SER	2.3
66	eS19	122	ARG	2.3
30	uL15	53	PHE	2.3
21	eL19	167	ARG	2.3
49	uS5	169	LEU	2.3
30	uL15	47	LYS	2.3
30	uL15	121	VAL	2.3
58	uS17	139	VAL	2.3
76	uS14	55	PHE	2.3
10	uL30	88	ARG	2.2
51	eS4	48	LEU	2.2
14	uL5	14	ILE	2.2
57	eS10	16	PHE	2.2
62	uS19	56	PHE	2.2
63	uS9	85	ILE	2.2
10	uL30	134	VAL	2.2
28	uL24	109	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
78	RACK	62	LYS	2.2
8	uL18	53	VAL	2.2
23	eL21	74	VAL	2.2
34	eL32	46	PHE	2.2
70	uS12	72	VAL	2.2
8	uL18	76	ALA	2.2
55	eS8	150	ALA	2.2
71	eS24	97	ALA	2.2
22	eL20	122	HIS	2.2
31	eL29	48	HIS	2.2
47	uS2	32	HIS	2.2
51	eS4	101	LEU	2.2
61	uS11	110	LEU	2.2
28	uL24	50	ILE	2.2
39	eL37	78	PHE	2.2
54	eS7	162	ILE	2.2
59	eS12	125	ASN	2.2
6	uL3	253	GLY	2.2
8	uL18	63	GLN	2.2
19	uL22	122	ALA	2.2
78	RACK	107	LYS	2.2
58	uS17	40	LEU	2.2
78	RACK	65	SER	2.2
4	uL10	50	VAL	2.2
7	uL4	73	ARG	2.2
59	eS12	93	ASP	2.2
10	uL30	115	THR	2.2
30	uL15	119	PRO	2.2
54	eS7	33	GLU	2.2
70	uS12	82	LYS	2.2
51	eS4	69	HIS	2.2
79	eS31	139	LEU	2.2
78	RACK	121	MET	2.2
15	eL13	130	GLY	2.2
37	uL29	60	GLU	2.2
8	uL18	8	LYS	2.2
38	eL36	9	ILE	2.2
50	uS3	189	MET	2.2
56	uS4	68	LYS	2.2
30	uL15	52	TYR	2.2
30	uL15	89	GLN	2.2
63	uS9	58	ASP	2.2

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Mol	Chain	Res	Type	RSRZ
54	eS7	75	THR	2.2
15	eL13	25	HIS	2.2
49	uS5	35	TRP	2.2
27	uL23	110	VAL	2.2
34	eL32	51	SER	2.2
15	eL13	21	ARG	2.2
32	eL30	11	ASN	2.2
33	eL31	61	LYS	2.2
37	uL29	78	LYS	2.2
48	eS1	24	PHE	2.2
70	uS12	30	LYS	2.2
7	uL4	52	VAL	2.2
23	eL21	54	HIS	2.2
17	eL15	131	GLU	2.2
47	uS2	74	VAL	2.2
51	eS4	219	VAL	2.2
8	uL18	172	TYR	2.2
27	uL23	123	TYR	2.2
46	18S	734	A	2.2
15	eL13	10	LEU	2.2
29	eL27	42	LEU	2.2
63	uS9	134	ALA	2.2
73	eS26	71	LEU	2.2
73	eS26	2	PRO	2.2
43	eL41	1	MET	2.2
49	uS5	99	LYS	2.2
65	uS13	43	SER	2.2
66	eS19	22	LEU	2.2
67	uS10	90	TYR	2.2
28	uL24	53	ASP	2.2
47	uS2	126	PRO	2.2
48	eS1	99	ASN	2.2
52	uS7	172	ILE	2.2
67	uS10	87	HIS	2.2
12	uL6	34	LEU	2.2
34	eL32	57	TYR	2.2
52	uS7	83	ARG	2.2
55	eS8	165	LEU	2.2
78	RACK	158	PRO	2.2
80	eEF2	211	PHE	2.2
22	eL20	72	VAL	2.2
23	eL21	107	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
23	eL21	77	ASN	2.2
35	eL33	21	ARG	2.2
51	eS4	203	GLY	2.2
83	uL11	134	GLY	2.2
27	uL23	40	LEU	2.1
16	eL14	138	ALA	2.1
63	uS9	121	SER	2.1
7	uL4	76	ARG	2.1
22	eL20	94	ILE	2.1
29	eL27	13	VAL	2.1
57	eS10	21	VAL	2.1
70	uS12	141	GLU	2.1
59	eS12	111	ASN	2.1
20	eL18	149	ALA	2.1
52	uS7	158	GLN	2.1
49	uS5	139	ILE	2.1
59	eS12	60	VAL	2.1
60	uS15	83	GLU	2.1
78	RACK	235	SER	2.1
12	uL6	190	ASP	2.1
17	eL15	199	LEU	2.1
75	eS28	16	LEU	2.1
7	uL4	106	TRP	2.1
51	eS4	235	TYR	2.1
1	25S	1024	G	2.1
77	eS30	56	MET	2.1
19	uL22	26	PHE	2.1
48	eS1	98	THR	2.1
64	eS17	67	ARG	2.1
73	eS26	10	ARG	2.1
11	eL8	139	VAL	2.1
30	uL15	112	ILE	2.1
64	eS17	69	ILE	2.1
78	RACK	315	VAL	2.1
54	eS7	129	LEU	2.1
68	eS21	87	ARG	2.1
17	eL15	120	TRP	2.1
78	RACK	113	VAL	2.1
6	uL3	387	LEU	2.1
30	uL15	78	LEU	2.1
53	eS6	76	LEU	2.1
14	uL5	75	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
73	eS26	20	PRO	2.1
15	eL13	91	ARG	2.1
24	eL22	71	PHE	2.1
22	eL20	102	ALA	2.1
46	18S	215	A	2.1
49	uS5	215	PHE	2.1
46	18S	676	G	2.1
15	eL13	18	TRP	2.1
15	eL13	155	GLU	2.1
54	eS7	25	VAL	2.1
47	uS2	15	GLN	2.1
65	uS13	26	ILE	2.1
69	uS8	14	ILE	2.1
17	eL15	73	ARG	2.1
38	eL36	13	LYS	2.1
39	eL37	73	ARG	2.1
44	eL42	32	LYS	2.1
55	eS8	29	LEU	2.1
68	eS21	53	TYR	2.1
49	uS5	68	ILE	2.1
49	uS5	170	ILE	2.1
7	uL4	86	GLY	2.1
11	eL8	200	LEU	2.1
20	eL18	138	LEU	2.1
35	eL33	14	LEU	2.1
39	eL37	14	LYS	2.1
60	uS15	69	ASN	2.1
65	uS13	82	PRO	2.1
17	eL15	152	CYS	2.1
23	eL21	118	GLU	2.1
23	eL21	125	ALA	2.1
30	uL15	127	ALA	2.1
41	eL39	2	ALA	2.1
66	eS19	109	GLU	2.1
6	uL3	252	ILE	2.1
19	uL22	138	LYS	2.1
27	uL23	49	LYS	2.1
58	uS17	46	LYS	2.1
60	uS15	39	LYS	2.1
69	uS8	62	VAL	2.1
63	uS9	44	LEU	2.1
63	uS9	68	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
75	eS28	33	LEU	2.1
80	eEF2	700	ARG	2.1
37	uL29	66	VAL	2.1
41	eL39	40	LYS	2.1
64	eS17	78	ARG	2.1
10	uL30	239	LEU	2.1
39	eL37	67	LEU	2.1
48	eS1	92	GLN	2.1
46	18S	701	U	2.1
51	eS4	153	ASN	2.1
27	uL23	44	PRO	2.1
37	uL29	110	ALA	2.1
51	eS4	127	LYS	2.1
77	eS30	60	PRO	2.1
8	uL18	167	SER	2.1
55	eS8	3	ILE	2.1
66	eS19	111	ILE	2.1
61	uS11	137	LEU	2.1
66	eS19	112	GLY	2.1
8	uL18	55	PHE	2.1
78	RACK	103	PHE	2.1
21	eL19	152	GLU	2.1
51	eS4	62	LYS	2.1
75	eS28	43	ASN	2.1
76	uS14	31	ILE	2.1
25	uL14	7	GLN	2.0
39	eL37	12	HIS	2.1
76	uS14	46	LYS	2.0
80	eEF2	654	GLN	2.0
43	eL41	21	ARG	2.0
1	25S	3157	U	2.0
27	uL23	114	VAL	2.0
30	uL15	35	ALA	2.0
60	uS15	126	ALA	2.0
21	eL19	143	ILE	2.0
49	uS5	137	ILE	2.0
24	eL22	81	LYS	2.0
23	eL21	57	TYR	2.0
51	eS4	89	VAL	2.0
69	uS8	63	VAL	2.0
35	eL33	7	LEU	2.0
47	uS2	18	LEU	2.0

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Mol	Chain	Res	Type	RSRZ
28	uL24	84	LYS	2.0
21	eL19	173	ARG	2.0
30	uL15	21	ARG	2.0
41	eL39	41	ARG	2.0
43	eL41	12	ARG	2.0
20	eL18	152	HIS	2.0
32	eL30	12	GLN	2.0
17	eL15	141	ALA	2.0
63	uS9	78	VAL	2.0
30	uL15	115	LYS	2.0
37	uL29	24	LEU	2.0
38	eL36	84	LYS	2.0
49	uS5	49	LYS	2.0
49	uS5	69	ILE	2.0
55	eS8	78	ILE	2.0
15	eL13	126	PHE	2.0
49	uS5	205	ARG	2.0
57	eS10	81	ASN	2.0
78	RACK	102	ARG	2.0
83	uL11	59	THR	2.0
54	eS7	28	GLU	2.0
8	uL18	78	ALA	2.0
18	uL13	54	TYR	2.0
32	eL30	59	TYR	2.0
17	eL15	162	ARG	2.0
21	eL19	163	ARG	2.0
23	eL21	89	LEU	2.0
37	uL29	41	LEU	2.0
39	eL37	52	LYS	2.0
58	uS17	32	LYS	2.0
73	eS26	38	ARG	2.0
8	uL18	142	PHE	2.0
20	eL18	172	PHE	2.0
38	eL36	90	MET	2.0
15	eL13	5	LYS	2.0
15	eL13	125	VAL	2.0
51	eS4	128	LYS	2.0
50	uS3	176	LEU	2.0
51	eS4	149	TYR	2.0
66	eS19	75	LYS	2.0
69	uS8	36	LYS	2.0
8	uL18	218	ARG	2.0

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Mol	Chain	Res	Type	RSRZ
11	eL8	142	LEU	2.0
37	uL29	58	ILE	2.0
47	uS2	119	ARG	2.0
48	eS1	213	ARG	2.0
23	eL21	62	GLY	2.0
41	eL39	38	ASN	2.0
28	uL24	43	TYR	2.0
37	uL29	54	VAL	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (i)

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

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	25S	3721	1/1	-0.04	0.36	110,110,110,110	0
84	MG	58S	406	1/1	0.17	0.27	126,126,126,126	0
84	MG	25S	3510	1/1	0.23	0.56	134,134,134,134	0
84	MG	25S	3691	1/1	0.26	0.45	117,117,117,117	0
84	MG	18S	1861	1/1	0.30	0.24	96,96,96,96	0
84	MG	18S	1904	1/1	0.30	0.26	121,121,121,121	0
84	MG	18S	1870	1/1	0.31	0.17	86,86,86,86	0
84	MG	25S	3658	1/1	0.32	0.23	101,101,101,101	0
84	MG	18S	1869	1/1	0.32	0.21	108,108,108,108	0
84	MG	25S	3575	1/1	0.33	0.42	106,106,106,106	0
84	MG	25S	3693	1/1	0.40	0.56	106,106,106,106	0
84	MG	25S	3717	1/1	0.41	0.32	117,117,117,117	0
84	MG	eL22	201	1/1	0.41	0.34	122,122,122,122	0
84	MG	AB	209	1/1	0.41	0.43	109,109,109,109	0
84	MG	25S	3694	1/1	0.44	0.55	115,115,115,115	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	18S	1903	1/1	0.45	0.20	109,109,109,109	0
84	MG	25S	3585	1/1	0.45	0.32	98,98,98,98	0
84	MG	25S	3622	1/1	0.46	0.25	82,82,82,82	0
84	MG	uL13	201	1/1	0.46	0.70	105,105,105,105	0
84	MG	18S	1835	1/1	0.48	0.27	100,100,100,100	0
84	MG	25S	3641	1/1	0.48	0.70	98,98,98,98	0
84	MG	25S	3654	1/1	0.49	0.43	110,110,110,110	0
84	MG	eEF2	903	1/1	0.50	0.46	113,113,113,113	0
84	MG	25S	3732	1/1	0.51	0.43	132,132,132,132	0
84	MG	25S	3687	1/1	0.52	0.22	96,96,96,96	0
84	MG	eL42	201	1/1	0.53	0.50	112,112,112,112	0
84	MG	18S	1847	1/1	0.53	0.32	125,125,125,125	0
84	MG	25S	3627	1/1	0.54	0.56	108,108,108,108	0
84	MG	25S	3606	1/1	0.54	0.52	111,111,111,111	0
84	MG	25S	3649	1/1	0.55	0.41	93,93,93,93	0
84	MG	25S	3673	1/1	0.56	0.14	94,94,94,94	0
84	MG	25S	3514	1/1	0.56	0.26	91,91,91,91	0
84	MG	25S	3710	1/1	0.56	0.20	111,111,111,111	0
84	MG	25S	3711	1/1	0.56	0.29	86,86,86,86	0
84	MG	25S	3659	1/1	0.56	0.31	115,115,115,115	0
84	MG	58S	409	1/1	0.58	0.17	121,121,121,121	0
84	MG	25S	3713	1/1	0.58	0.17	91,91,91,91	0
84	MG	25S	3561	1/1	0.58	0.55	106,106,106,106	0
84	MG	25S	3540	1/1	0.58	0.28	81,81,81,81	0
84	MG	25S	3552	1/1	0.59	0.40	92,92,92,92	0
84	MG	25S	3513	1/1	0.59	0.36	104,104,104,104	0
84	MG	25S	3656	1/1	0.59	0.26	103,103,103,103	0
84	MG	AB	210	1/1	0.59	0.69	107,107,107,107	0
84	MG	18S	1868	1/1	0.59	0.18	97,97,97,97	0
84	MG	25S	3503	1/1	0.59	0.31	100,100,100,100	0
84	MG	25S	3632	1/1	0.59	0.38	105,105,105,105	0
84	MG	18S	1889	1/1	0.59	0.25	115,115,115,115	0
84	MG	25S	3635	1/1	0.59	0.30	140,140,140,140	0
84	MG	25S	3500	1/1	0.59	0.30	110,110,110,110	0
84	MG	eL32	202	1/1	0.59	0.27	83,83,83,83	0
84	MG	25S	3522	1/1	0.60	0.41	90,90,90,90	0
84	MG	25S	3601	1/1	0.60	0.75	118,118,118,118	0
84	MG	25S	3515	1/1	0.61	0.48	91,91,91,91	0
84	MG	uL13	202	1/1	0.61	0.47	112,112,112,112	0
84	MG	25S	3705	1/1	0.61	0.46	113,113,113,113	0
84	MG	25S	3689	1/1	0.62	0.32	97,97,97,97	0
84	MG	25S	3558	1/1	0.62	0.49	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	25S	3517	1/1	0.62	0.27	88,88,88,88	0
84	MG	25S	3729	1/1	0.63	0.33	101,101,101,101	0
84	MG	uS4	201	1/1	0.63	0.21	117,117,117,117	0
84	MG	eL32	201	1/1	0.63	0.38	88,88,88,88	0
84	MG	18S	1828	1/1	0.64	0.35	101,101,101,101	0
84	MG	25S	3534	1/1	0.64	0.52	92,92,92,92	0
84	MG	18S	1907	1/1	0.64	0.54	124,124,124,124	0
84	MG	25S	3639	1/1	0.64	0.33	107,107,107,107	0
84	MG	eEF2	901	1/1	0.64	0.23	105,105,105,105	0
84	MG	25S	3695	1/1	0.64	0.39	100,100,100,100	0
84	MG	25S	3688	1/1	0.65	0.25	101,101,101,101	0
85	ZN	eS31	201	1/1	0.65	0.15	206,206,206,206	0
84	MG	uL16	302	1/1	0.66	0.17	75,75,75,75	0
84	MG	18S	1811	1/1	0.66	0.51	90,90,90,90	0
84	MG	18S	1902	1/1	0.66	0.42	102,102,102,102	0
84	MG	25S	3630	1/1	0.66	0.35	88,88,88,88	0
84	MG	25S	3444	1/1	0.66	0.43	93,93,93,93	0
84	MG	25S	3655	1/1	0.67	0.34	98,98,98,98	0
84	MG	18S	1818	1/1	0.67	0.35	93,93,93,93	0
84	MG	25S	3707	1/1	0.67	0.26	91,91,91,91	0
84	MG	25S	3700	1/1	0.68	0.48	105,105,105,105	0
84	MG	18S	1892	1/1	0.68	0.30	104,104,104,104	0
84	MG	25S	3564	1/1	0.68	0.59	103,103,103,103	0
84	MG	25S	3508	1/1	0.68	0.37	99,99,99,99	0
84	MG	25S	3716	1/1	0.68	0.27	109,109,109,109	0
84	MG	eL39	101	1/1	0.69	1.30	106,106,106,106	0
84	MG	25S	3731	1/1	0.69	0.18	92,92,92,92	0
84	MG	25S	3489	1/1	0.69	0.30	120,120,120,120	0
84	MG	25S	3617	1/1	0.69	0.40	111,111,111,111	0
84	MG	uS12	201	1/1	0.69	0.55	92,92,92,92	0
84	MG	25S	3723	1/1	0.69	0.13	111,111,111,111	0
84	MG	25S	3728	1/1	0.69	0.40	81,81,81,81	0
84	MG	25S	3521	1/1	0.69	0.15	80,80,80,80	0
84	MG	25S	3697	1/1	0.70	0.16	77,77,77,77	0
84	MG	25S	3702	1/1	0.70	0.35	113,113,113,113	0
84	MG	18S	1852	1/1	0.70	0.30	104,104,104,104	0
84	MG	25S	3645	1/1	0.71	0.59	121,121,121,121	0
84	MG	25S	3724	1/1	0.71	0.26	76,76,76,76	0
84	MG	18S	1858	1/1	0.71	0.24	99,99,99,99	0
84	MG	25S	3652	1/1	0.72	0.74	111,111,111,111	0
84	MG	25S	3502	1/1	0.72	0.26	77,77,77,77	0
84	MG	18S	1897	1/1	0.72	0.25	112,112,112,112	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	25S	3634	1/1	0.73	0.57	122,122,122,122	0
84	MG	25S	3580	1/1	0.73	0.41	106,106,106,106	0
84	MG	eL19	201	1/1	0.73	0.65	101,101,101,101	0
84	MG	18S	1896	1/1	0.73	0.16	112,112,112,112	0
84	MG	25S	3477	1/1	0.73	0.14	79,79,79,79	0
84	MG	25S	3722	1/1	0.73	0.32	107,107,107,107	0
84	MG	25S	3474	1/1	0.73	0.38	77,77,77,77	0
84	MG	25S	3633	1/1	0.74	0.30	108,108,108,108	0
84	MG	25S	3718	1/1	0.74	0.23	102,102,102,102	0
84	MG	25S	3621	1/1	0.74	0.25	80,80,80,80	0
84	MG	25S	3543	1/1	0.74	0.46	107,107,107,107	0
84	MG	25S	3547	1/1	0.74	0.13	79,79,79,79	0
84	MG	25S	3613	1/1	0.74	0.28	98,98,98,98	0
84	MG	18S	1873	1/1	0.74	0.24	116,116,116,116	0
84	MG	18S	1875	1/1	0.74	0.27	117,117,117,117	0
84	MG	18S	1884	1/1	0.74	0.30	109,109,109,109	0
84	MG	25S	3511	1/1	0.74	0.22	96,96,96,96	0
84	MG	18S	1851	1/1	0.74	0.22	88,88,88,88	0
84	MG	18S	1880	1/1	0.75	0.42	101,101,101,101	0
84	MG	25S	3720	1/1	0.75	0.35	127,127,127,127	0
84	MG	25S	3548	1/1	0.75	0.28	96,96,96,96	0
84	MG	25S	3698	1/1	0.75	0.21	74,74,74,74	0
84	MG	25S	3484	1/1	0.75	0.64	97,97,97,97	0
84	MG	58S	404	1/1	0.76	0.33	122,122,122,122	0
84	MG	18S	1882	1/1	0.76	0.34	114,114,114,114	0
84	MG	25S	3471	1/1	0.76	0.42	79,79,79,79	0
84	MG	eL30	202	1/1	0.76	0.36	97,97,97,97	0
84	MG	25S	3572	1/1	0.76	0.36	129,129,129,129	0
84	MG	25S	3525	1/1	0.76	0.57	124,124,124,124	0
84	MG	25S	3660	1/1	0.76	0.46	121,121,121,121	0
84	MG	25S	3712	1/1	0.76	0.25	91,91,91,91	0
84	MG	25S	3610	1/1	0.77	0.44	111,111,111,111	0
84	MG	25S	3535	1/1	0.77	0.26	99,99,99,99	0
84	MG	18S	1894	1/1	0.77	0.29	115,115,115,115	0
84	MG	18S	1827	1/1	0.77	0.30	94,94,94,94	0
84	MG	25S	3516	1/1	0.77	0.55	111,111,111,111	0
84	MG	25S	3554	1/1	0.77	0.47	102,102,102,102	0
84	MG	25S	3640	1/1	0.77	0.47	98,98,98,98	0
84	MG	25S	3479	1/1	0.78	0.53	87,87,87,87	0
84	MG	25S	3692	1/1	0.78	0.46	102,102,102,102	0
84	MG	eS26	201	1/1	0.78	0.36	107,107,107,107	0
84	MG	18S	1877	1/1	0.78	0.43	102,102,102,102	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	25S	3690	1/1	0.78	0.47	109,109,109,109	0
84	MG	25S	3714	1/1	0.78	0.27	91,91,91,91	0
84	MG	25S	3530	1/1	0.79	0.41	88,88,88,88	0
84	MG	25S	3504	1/1	0.79	0.35	95,95,95,95	0
84	MG	25S	3458	1/1	0.79	0.41	82,82,82,82	0
84	MG	25S	3485	1/1	0.80	0.38	91,91,91,91	0
84	MG	58S	407	1/1	0.80	0.35	117,117,117,117	0
84	MG	25S	3591	1/1	0.80	0.10	75,75,75,75	0
84	MG	25S	3415	1/1	0.80	0.48	80,80,80,80	0
84	MG	25S	3604	1/1	0.80	0.27	82,82,82,82	0
84	MG	18S	1867	1/1	0.80	0.39	90,90,90,90	0
84	MG	uS12	202	1/1	0.80	0.37	90,90,90,90	0
84	MG	AB	208	1/1	0.80	0.32	91,91,91,91	0
84	MG	25S	3703	1/1	0.80	0.28	116,116,116,116	0
84	MG	25S	3671	1/1	0.80	0.73	104,104,104,104	0
84	MG	PSIT	102	1/1	0.80	0.14	106,106,106,106	0
84	MG	25S	3706	1/1	0.80	0.27	97,97,97,97	0
84	MG	18S	1809	1/1	0.81	0.37	79,79,79,79	0
84	MG	AB	204	1/1	0.81	0.28	111,111,111,111	0
84	MG	25S	3686	1/1	0.81	0.47	109,109,109,109	0
84	MG	25S	3579	1/1	0.81	0.39	101,101,101,101	0
84	MG	18S	1878	1/1	0.81	0.24	87,87,87,87	0
84	MG	18S	1900	1/1	0.81	0.17	117,117,117,117	0
84	MG	25S	3648	1/1	0.81	0.13	86,86,86,86	0
84	MG	25S	3473	1/1	0.81	0.67	94,94,94,94	0
84	MG	25S	3553	1/1	0.81	0.40	104,104,104,104	0
84	MG	uS5	301	1/1	0.82	0.38	109,109,109,109	0
84	MG	25S	3708	1/1	0.82	0.27	94,94,94,94	0
84	MG	58S	408	1/1	0.82	1.06	101,101,101,101	0
84	MG	25S	3505	1/1	0.82	0.57	96,96,96,96	0
84	MG	25S	3593	1/1	0.82	0.33	82,82,82,82	0
84	MG	25S	3620	1/1	0.82	0.22	102,102,102,102	0
84	MG	18S	1841	1/1	0.82	0.21	87,87,87,87	0
84	MG	25S	3407	1/1	0.82	0.57	83,83,83,83	0
84	MG	25S	3670	1/1	0.82	0.23	90,90,90,90	0
84	MG	eL30	201	1/1	0.83	0.31	89,89,89,89	0
84	MG	18S	1874	1/1	0.83	0.20	102,102,102,102	0
84	MG	25S	3507	1/1	0.83	0.62	95,95,95,95	0
84	MG	25S	3499	1/1	0.83	0.50	87,87,87,87	0
84	MG	25S	3626	1/1	0.83	0.30	99,99,99,99	0
84	MG	18S	1879	1/1	0.83	0.28	113,113,113,113	0
84	MG	25S	3449	1/1	0.83	0.11	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	25S	3615	1/1	0.83	0.26	93,93,93,93	0
84	MG	25S	3616	1/1	0.83	0.45	112,112,112,112	0
84	MG	18S	1863	1/1	0.83	0.13	79,79,79,79	0
84	MG	25S	3506	1/1	0.83	0.26	95,95,95,95	0
84	MG	25S	3650	1/1	0.83	0.39	103,103,103,103	0
84	MG	eEF2	904	1/1	0.83	0.32	122,122,122,122	0
84	MG	25S	3512	1/1	0.83	0.14	70,70,70,70	0
84	MG	25S	3680	1/1	0.83	0.24	91,91,91,91	0
84	MG	25S	3653	1/1	0.84	0.54	103,103,103,103	0
84	MG	25S	3549	1/1	0.84	0.50	105,105,105,105	0
84	MG	25S	3719	1/1	0.84	0.49	113,113,113,113	0
84	MG	18S	1813	1/1	0.84	0.37	69,69,69,69	0
84	MG	25S	3546	1/1	0.84	0.19	75,75,75,75	0
84	MG	58S	402	1/1	0.84	0.29	106,106,106,106	0
84	MG	25S	3440	1/1	0.85	0.33	85,85,85,85	0
84	MG	25S	3701	1/1	0.85	0.19	88,88,88,88	0
84	MG	25S	3726	1/1	0.85	0.53	121,121,121,121	0
84	MG	18S	1854	1/1	0.85	0.40	100,100,100,100	0
84	MG	25S	3454	1/1	0.85	0.35	73,73,73,73	0
84	MG	25S	3518	1/1	0.85	0.22	80,80,80,80	0
84	MG	25S	3537	1/1	0.85	0.53	96,96,96,96	0
84	MG	18S	1865	1/1	0.85	0.23	100,100,100,100	0
84	MG	eS6	301	1/1	0.85	0.16	110,110,110,110	0
84	MG	25S	3491	1/1	0.86	0.36	93,93,93,93	0
84	MG	18S	1895	1/1	0.86	0.32	111,111,111,111	0
84	MG	18S	1836	1/1	0.86	0.27	91,91,91,91	0
84	MG	18S	1817	1/1	0.86	0.47	104,104,104,104	0
84	MG	25S	3583	1/1	0.86	0.38	99,99,99,99	0
84	MG	58S	405	1/1	0.86	0.41	96,96,96,96	0
84	MG	25S	3696	1/1	0.86	0.42	115,115,115,115	0
84	MG	18S	1829	1/1	0.86	0.45	105,105,105,105	0
84	MG	18S	1831	1/1	0.86	0.47	99,99,99,99	0
84	MG	18S	1859	1/1	0.86	0.21	94,94,94,94	0
84	MG	18S	1899	1/1	0.87	0.12	97,97,97,97	0
84	MG	58S	403	1/1	0.87	0.46	100,100,100,100	0
84	MG	25S	3576	1/1	0.87	0.25	94,94,94,94	0
84	MG	uS12	203	1/1	0.87	0.23	80,80,80,80	0
84	MG	25S	3536	1/1	0.87	0.21	66,66,66,66	0
84	MG	25S	3541	1/1	0.87	0.53	110,110,110,110	0
84	MG	18S	1906	1/1	0.87	0.22	127,127,127,127	0
84	MG	25S	3676	1/1	0.87	0.44	96,96,96,96	0
84	MG	18S	1838	1/1	0.87	0.42	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	25S	3488	1/1	0.87	0.30	88,88,88,88	0
84	MG	25S	3566	1/1	0.88	0.28	85,85,85,85	0
84	MG	25S	3497	1/1	0.88	0.52	92,92,92,92	0
84	MG	18S	1891	1/1	0.88	0.20	136,136,136,136	0
84	MG	25S	3588	1/1	0.88	0.14	93,93,93,93	0
84	MG	25S	3574	1/1	0.88	0.33	99,99,99,99	0
84	MG	18S	1819	1/1	0.88	0.28	73,73,73,73	0
84	MG	25S	3557	1/1	0.88	0.33	82,82,82,82	0
84	MG	AB	202	1/1	0.88	0.66	109,109,109,109	0
84	MG	18S	1898	1/1	0.88	0.11	103,103,103,103	0
84	MG	25S	3438	1/1	0.88	0.58	72,72,72,72	0
84	MG	25S	3446	1/1	0.88	0.26	80,80,80,80	0
84	MG	25S	3637	1/1	0.88	0.09	81,81,81,81	0
84	MG	25S	3424	1/1	0.88	0.45	92,92,92,92	0
84	MG	18S	1866	1/1	0.88	0.39	98,98,98,98	0
84	MG	25S	3612	1/1	0.89	0.29	118,118,118,118	0
84	MG	25S	3559	1/1	0.89	0.26	67,67,67,67	0
84	MG	25S	3480	1/1	0.89	0.44	81,81,81,81	0
84	MG	uL2	302	1/1	0.89	0.08	54,54,54,54	0
84	MG	25S	3563	1/1	0.89	0.40	100,100,100,100	0
84	MG	18S	1806	1/1	0.89	0.45	83,83,83,83	0
84	MG	25S	3498	1/1	0.89	0.07	87,87,87,87	0
84	MG	18S	1837	1/1	0.89	0.24	129,129,129,129	0
84	MG	25S	3428	1/1	0.89	0.51	84,84,84,84	0
84	MG	25S	3568	1/1	0.89	0.11	73,73,73,73	0
84	MG	25S	3661	1/1	0.89	0.27	81,81,81,81	0
84	MG	25S	3533	1/1	0.89	0.27	92,92,92,92	0
84	MG	25S	3683	1/1	0.90	0.28	109,109,109,109	0
84	MG	18S	1849	1/1	0.90	0.20	94,94,94,94	0
84	MG	25S	3685	1/1	0.90	0.14	87,87,87,87	0
84	MG	25S	3605	1/1	0.90	0.21	126,126,126,126	0
84	MG	25S	3436	1/1	0.90	0.56	74,74,74,74	0
84	MG	25S	3587	1/1	0.90	0.19	95,95,95,95	0
84	MG	AB	206	1/1	0.90	0.38	109,109,109,109	0
84	MG	AB	207	1/1	0.90	0.45	102,102,102,102	0
84	MG	25S	3418	1/1	0.90	0.40	62,62,62,62	0
84	MG	25S	3412	1/1	0.90	0.54	79,79,79,79	0
84	MG	25S	3410	1/1	0.90	0.41	71,71,71,71	0
84	MG	25S	3581	1/1	0.90	0.10	71,71,71,71	0
84	MG	25S	3602	1/1	0.90	0.11	81,81,81,81	0
84	MG	eEF2	902	1/1	0.90	0.23	84,84,84,84	0
84	MG	25S	3603	1/1	0.90	0.23	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	25S	3677	1/1	0.90	0.12	91,91,91,91	0
84	MG	25S	3469	1/1	0.90	0.21	76,76,76,76	0
84	MG	18S	1802	1/1	0.90	0.35	75,75,75,75	0
84	MG	25S	3599	1/1	0.91	0.19	105,105,105,105	0
84	MG	eL41	101	1/1	0.91	0.21	92,92,92,92	0
84	MG	25S	3432	1/1	0.91	0.30	83,83,83,83	0
84	MG	25S	3619	1/1	0.91	0.10	85,85,85,85	0
84	MG	uL2	301	1/1	0.91	0.48	92,92,92,92	0
84	MG	18S	1842	1/1	0.91	0.36	92,92,92,92	0
84	MG	25S	3490	1/1	0.91	0.28	110,110,110,110	0
84	MG	18S	1810	1/1	0.91	0.30	85,85,85,85	0
84	MG	25S	3465	1/1	0.91	0.27	102,102,102,102	0
84	MG	25S	3519	1/1	0.91	0.49	112,112,112,112	0
84	MG	25S	3417	1/1	0.91	0.40	65,65,65,65	0
84	MG	18S	1883	1/1	0.91	0.36	87,87,87,87	0
84	MG	25S	3589	1/1	0.91	0.36	74,74,74,74	0
84	MG	18S	1886	1/1	0.91	0.27	88,88,88,88	0
84	MG	25S	3565	1/1	0.91	0.26	85,85,85,85	0
84	MG	18S	1822	1/1	0.91	0.37	96,96,96,96	0
84	MG	25S	3631	1/1	0.91	0.31	96,96,96,96	0
84	MG	18S	1864	1/1	0.91	0.13	116,116,116,116	0
84	MG	25S	3457	1/1	0.91	0.32	72,72,72,72	0
84	MG	25S	3596	1/1	0.91	0.40	105,105,105,105	0
84	MG	25S	3597	1/1	0.91	0.10	109,109,109,109	0
84	MG	25S	3403	1/1	0.92	0.34	72,72,72,72	0
84	MG	25S	3509	1/1	0.92	0.21	92,92,92,92	0
84	MG	18S	1839	1/1	0.92	0.21	94,94,94,94	0
84	MG	25S	3453	1/1	0.92	0.56	86,86,86,86	0
84	MG	25S	3623	1/1	0.92	0.13	101,101,101,101	0
84	MG	25S	3420	1/1	0.92	0.30	70,70,70,70	0
84	MG	25S	3594	1/1	0.92	0.21	79,79,79,79	0
84	MG	25S	3476	1/1	0.92	0.41	80,80,80,80	0
84	MG	25S	3422	1/1	0.92	0.33	84,84,84,84	0
84	MG	eL37	101	1/1	0.92	0.18	85,85,85,85	0
84	MG	AB	201	1/1	0.92	0.25	101,101,101,101	0
84	MG	25S	3478	1/1	0.92	0.17	79,79,79,79	0
84	MG	18S	1901	1/1	0.92	0.15	104,104,104,104	0
84	MG	25S	3433	1/1	0.92	0.37	70,70,70,70	0
84	MG	25S	3501	1/1	0.92	0.26	83,83,83,83	0
84	MG	25S	3463	1/1	0.92	0.33	84,84,84,84	0
84	MG	25S	3679	1/1	0.92	0.29	108,108,108,108	0
84	MG	25S	3709	1/1	0.92	0.36	112,112,112,112	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	25S	3482	1/1	0.92	0.22	84,84,84,84	0
84	MG	25S	3483	1/1	0.92	0.31	76,76,76,76	0
84	MG	25S	3520[A]	1/1	0.92	0.32	116,116,116,116	1
84	MG	25S	3550	1/1	0.92	0.13	80,80,80,80	0
84	MG	25S	3520[B]	1/1	0.92	0.32	110,110,110,110	1
84	MG	25S	3715	1/1	0.92	0.23	102,102,102,102	0
84	MG	18S	1826	1/1	0.92	0.42	87,87,87,87	0
84	MG	25S	3646	1/1	0.92	0.45	92,92,92,92	0
84	MG	25S	3582	1/1	0.92	0.32	91,91,91,91	0
84	MG	25S	3435	1/1	0.92	0.26	95,95,95,95	0
84	MG	25S	3584	1/1	0.92	0.41	93,93,93,93	0
84	MG	25S	3468	1/1	0.92	0.28	107,107,107,107	0
84	MG	25S	3447	1/1	0.92	0.33	80,80,80,80	0
84	MG	25S	3618[A]	1/1	0.93	0.24	85,85,85,85	1
84	MG	18S	1830	1/1	0.93	0.49	86,86,86,86	0
84	MG	25S	3618[B]	1/1	0.93	0.24	89,89,89,89	1
84	MG	25S	3452	1/1	0.93	0.52	96,96,96,96	0
84	MG	25S	3699	1/1	0.93	0.18	84,84,84,84	0
84	MG	25S	3590	1/1	0.93	0.27	82,82,82,82	0
84	MG	25S	3567	1/1	0.93	0.28	112,112,112,112	0
84	MG	18S	1808	1/1	0.93	0.37	90,90,90,90	0
84	MG	AB	203	1/1	0.93	0.39	86,86,86,86	0
84	MG	18S	1905	1/1	0.93	0.20	93,93,93,93	0
84	MG	25S	3592	1/1	0.93	0.12	74,74,74,74	0
84	MG	25S	3542	1/1	0.93	0.23	73,73,73,73	0
84	MG	25S	3704	1/1	0.93	0.22	96,96,96,96	0
84	MG	uL22	201	1/1	0.93	0.33	76,76,76,76	0
84	MG	25S	3466	1/1	0.93	0.42	88,88,88,88	0
84	MG	18S	1853	1/1	0.93	0.19	77,77,77,77	0
84	MG	25S	3595	1/1	0.93	0.26	93,93,93,93	0
84	MG	18S	1885	1/1	0.93	0.11	92,92,92,92	0
84	MG	18S	1856	1/1	0.93	0.23	91,91,91,91	0
84	MG	18S	1887	1/1	0.93	0.37	101,101,101,101	0
84	MG	25S	3562	1/1	0.93	0.25	93,93,93,93	0
84	MG	18S	1823	1/1	0.93	0.39	96,96,96,96	0
84	MG	25S	3427	1/1	0.93	0.60	73,73,73,73	0
84	MG	PSIT	101	1/1	0.93	0.30	94,94,94,94	0
84	MG	25S	3481	1/1	0.93	0.38	76,76,76,76	0
84	MG	25S	3493	1/1	0.93	0.29	86,86,86,86	0
84	MG	25S	3430	1/1	0.94	0.48	96,96,96,96	0
84	MG	25S	3487	1/1	0.94	0.54	87,87,87,87	0
84	MG	25S	3624	1/1	0.94	0.49	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	25S	3464	1/1	0.94	0.39	80,80,80,80	0
84	MG	25S	3643	1/1	0.94	0.34	65,65,65,65	0
84	MG	18S	1840	1/1	0.94	0.53	97,97,97,97	0
84	MG	25S	3578	1/1	0.94	0.14	67,67,67,67	0
84	MG	25S	3408	1/1	0.94	0.35	76,76,76,76	0
84	MG	25S	3663	1/1	0.94	0.14	92,92,92,92	0
84	MG	25S	3730	1/1	0.94	0.36	107,107,107,107	0
84	MG	25S	3664	1/1	0.94	0.08	86,86,86,86	0
84	MG	18S	1815	1/1	0.94	0.35	97,97,97,97	0
84	MG	25S	3665	1/1	0.94	0.26	67,67,67,67	0
84	MG	25S	3666	1/1	0.94	0.32	62,62,62,62	0
84	MG	25S	3556	1/1	0.94	0.20	77,77,77,77	0
84	MG	25S	3450	1/1	0.94	0.36	77,77,77,77	0
84	MG	18S	1888	1/1	0.94	0.46	93,93,93,93	0
84	MG	25S	3425	1/1	0.94	0.38	71,71,71,71	0
84	MG	25S	3674	1/1	0.94	0.27	102,102,102,102	0
84	MG	25S	3675	1/1	0.94	0.17	87,87,87,87	0
84	MG	25S	3459	1/1	0.94	0.35	62,62,62,62	0
84	MG	25S	3560	1/1	0.94	0.45	100,100,100,100	0
84	MG	25S	3678	1/1	0.94	0.36	92,92,92,92	0
84	MG	58S	401	1/1	0.94	0.48	102,102,102,102	0
84	MG	25S	3460	1/1	0.95	0.47	75,75,75,75	0
84	MG	25S	3462	1/1	0.95	0.30	69,69,69,69	0
84	MG	25S	3662	1/1	0.95	0.25	89,89,89,89	0
84	MG	18S	1890	1/1	0.95	0.29	121,121,121,121	0
84	MG	25S	3614	1/1	0.95	0.31	119,119,119,119	0
84	MG	25S	3636	1/1	0.95	0.33	88,88,88,88	0
84	MG	18S	1812	1/1	0.95	0.28	70,70,70,70	0
84	MG	25S	3573	1/1	0.95	0.22	75,75,75,75	0
84	MG	18S	1857	1/1	0.95	0.27	85,85,85,85	0
84	MG	25S	3495	1/1	0.95	0.46	87,87,87,87	0
84	MG	18S	1816	1/1	0.95	0.41	83,83,83,83	0
84	MG	18S	1860	1/1	0.95	0.41	100,100,100,100	0
84	MG	25S	3667	1/1	0.95	0.34	91,91,91,91	0
84	MG	25S	3421	1/1	0.95	0.38	79,79,79,79	0
84	MG	25S	3539	1/1	0.95	0.13	95,95,95,95	0
84	MG	18S	1820	1/1	0.95	0.36	91,91,91,91	0
84	MG	18S	1821	1/1	0.95	0.22	108,108,108,108	0
84	MG	25S	3475	1/1	0.95	0.34	86,86,86,86	0
84	MG	25S	3443	1/1	0.95	0.33	96,96,96,96	0
84	MG	25S	3486	1/1	0.95	0.54	88,88,88,88	0
84	MG	25S	3647	1/1	0.95	0.21	93,93,93,93	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	18S	1871	1/1	0.95	0.29	113,113,113,113	0
84	MG	25S	3456	1/1	0.95	0.16	77,77,77,77	0
84	MG	25S	3544	1/1	0.95	0.22	88,88,88,88	0
84	MG	25S	3524	1/1	0.95	0.34	96,96,96,96	0
84	MG	25S	3416	1/1	0.95	0.35	69,69,69,69	0
84	MG	25S	3682	1/1	0.95	0.23	102,102,102,102	0
84	MG	25S	3526	1/1	0.95	0.09	77,77,77,77	0
84	MG	AB	205	1/1	0.95	0.32	99,99,99,99	0
84	MG	25S	3586	1/1	0.95	0.22	101,101,101,101	0
84	MG	25S	3629	1/1	0.95	0.28	101,101,101,101	0
84	MG	25S	3451	1/1	0.95	0.44	72,72,72,72	0
84	MG	25S	3608	1/1	0.95	0.25	107,107,107,107	0
84	MG	25S	3414	1/1	0.95	0.46	67,67,67,67	0
86	GTP	eEF2	905	32/32	0.95	0.19	83,95,105,109	0
84	MG	18S	1832[B]	1/1	0.96	0.28	103,103,103,103	1
84	MG	18S	1833	1/1	0.96	0.14	110,110,110,110	0
84	MG	25S	3609	1/1	0.96	0.21	70,70,70,70	0
84	MG	25S	3684	1/1	0.96	0.18	79,79,79,79	0
84	MG	25S	3651	1/1	0.96	0.29	92,92,92,92	0
84	MG	25S	3538	1/1	0.96	0.09	81,81,81,81	0
84	MG	25S	3413	1/1	0.96	0.38	74,74,74,74	0
84	MG	25S	3638	1/1	0.96	0.33	71,71,71,71	0
84	MG	25S	3672	1/1	0.96	0.32	111,111,111,111	0
84	MG	25S	3455	1/1	0.96	0.44	74,74,74,74	0
84	MG	18S	1843	1/1	0.96	0.28	110,110,110,110	0
84	MG	18S	1845	1/1	0.96	0.27	90,90,90,90	0
84	MG	25S	3725	1/1	0.96	0.28	90,90,90,90	0
84	MG	18S	1848	1/1	0.96	0.28	89,89,89,89	0
84	MG	25S	3532	1/1	0.96	0.31	97,97,97,97	0
84	MG	18S	1850	1/1	0.96	0.18	79,79,79,79	0
84	MG	25S	3467	1/1	0.96	0.29	75,75,75,75	0
84	MG	25S	3461	1/1	0.96	0.41	87,87,87,87	0
84	MG	25S	3555	1/1	0.96	0.31	68,68,68,68	0
84	MG	18S	1824	1/1	0.96	0.21	108,108,108,108	0
84	MG	25S	3439	1/1	0.96	0.40	82,82,82,82	0
84	MG	25S	3402	1/1	0.96	0.38	65,65,65,65	0
84	MG	18S	1804	1/1	0.96	0.42	85,85,85,85	0
84	MG	25S	3401	1/1	0.96	0.50	67,67,67,67	0
84	MG	25S	3681	1/1	0.96	0.14	88,88,88,88	0
84	MG	25S	3571	1/1	0.96	0.33	84,84,84,84	0
84	MG	18S	1893	1/1	0.96	0.33	120,120,120,120	0
84	MG	18S	1832[A]	1/1	0.96	0.28	100,100,100,100	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	18S	1872	1/1	0.97	0.18	105,105,105,105	0
84	MG	18S	1807	1/1	0.97	0.33	84,84,84,84	0
84	MG	25S	3545	1/1	0.97	0.33	111,111,111,111	0
84	MG	25S	3442	1/1	0.97	0.33	69,69,69,69	0
84	MG	18S	1876	1/1	0.97	0.30	85,85,85,85	0
84	MG	25S	3628	1/1	0.97	0.24	105,105,105,105	0
84	MG	25S	3437	1/1	0.97	0.39	78,78,78,78	0
84	MG	25S	3434	1/1	0.97	0.37	61,61,61,61	0
84	MG	18S	1855	1/1	0.97	0.24	93,93,93,93	0
84	MG	25S	3529	1/1	0.97	0.14	80,80,80,80	0
84	MG	18S	1814	1/1	0.97	0.32	85,85,85,85	0
84	MG	25S	3445	1/1	0.97	0.25	70,70,70,70	0
84	MG	25S	3607	1/1	0.97	0.19	78,78,78,78	0
84	MG	25S	3404	1/1	0.97	0.34	62,62,62,62	0
84	MG	25S	3419	1/1	0.97	0.46	68,68,68,68	0
84	MG	18S	1862	1/1	0.97	0.26	102,102,102,102	0
84	MG	25S	3470	1/1	0.97	0.31	71,71,71,71	0
84	MG	25S	3598	1/1	0.97	0.29	71,71,71,71	0
84	MG	25S	3441	1/1	0.97	0.32	77,77,77,77	0
84	MG	uL3	401	1/1	0.97	0.20	62,62,62,62	0
84	MG	18S	1803	1/1	0.97	0.27	75,75,75,75	0
84	MG	18S	1844	1/1	0.97	0.32	95,95,95,95	0
84	MG	uL16	301	1/1	0.97	0.34	85,85,85,85	0
84	MG	18S	1825	1/1	0.97	0.32	97,97,97,97	0
84	MG	25S	3668	1/1	0.97	0.19	64,64,64,64	0
84	MG	25S	3611	1/1	0.98	0.14	92,92,92,92	0
84	MG	25S	3431	1/1	0.98	0.53	76,76,76,76	0
84	MG	25S	3472	1/1	0.98	0.37	96,96,96,96	0
84	MG	uL14	201	1/1	0.98	0.47	66,66,66,66	0
84	MG	18S	1834[A]	1/1	0.98	0.17	102,102,102,102	1
84	MG	18S	1834[B]	1/1	0.98	0.17	108,108,108,108	1
84	MG	25S	3426	1/1	0.98	0.54	76,76,76,76	0
84	MG	25S	3406	1/1	0.98	0.32	70,70,70,70	0
84	MG	25S	3523	1/1	0.98	0.25	112,112,112,112	0
84	MG	25S	3600	1/1	0.98	0.19	74,74,74,74	0
84	MG	25S	3411	1/1	0.98	0.33	73,73,73,73	0
84	MG	25S	3492	1/1	0.98	0.43	70,70,70,70	0
84	MG	25S	3429	1/1	0.98	0.32	77,77,77,77	0
84	MG	25S	3494	1/1	0.98	0.17	88,88,88,88	0
84	MG	18S	1801	1/1	0.98	0.24	76,76,76,76	0
84	MG	25S	3448	1/1	0.98	0.39	72,72,72,72	0
84	MG	25S	3531[A]	1/1	0.98	0.33	66,66,66,66	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	25S	3531[B]	1/1	0.98	0.33	66,66,66,66	1
84	MG	18S	1805	1/1	0.98	0.40	73,73,73,73	0
84	MG	25S	3577	1/1	0.98	0.36	95,95,95,95	0
84	MG	25S	3625	1/1	0.98	0.10	100,100,100,100	0
85	ZN	eL34	201	1/1	0.98	0.04	123,123,123,123	0
85	ZN	uS14	101	1/1	0.98	0.17	114,114,114,114	0
84	MG	25S	3496	1/1	0.98	0.59	89,89,89,89	0
84	MG	25S	3409	1/1	0.98	0.47	82,82,82,82	0
84	MG	25S	3644	1/1	0.99	0.50	82,82,82,82	0
84	MG	25S	3527	1/1	0.99	0.31	64,64,64,64	0
84	MG	25S	3551	1/1	0.99	0.39	74,74,74,74	0
84	MG	25S	3528	1/1	0.99	0.38	81,81,81,81	0
84	MG	25S	3569	1/1	0.99	0.33	68,68,68,68	0
84	MG	25S	3657	1/1	0.99	0.20	72,72,72,72	0
84	MG	25S	3727	1/1	0.99	0.19	90,90,90,90	0
84	MG	25S	3570	1/1	0.99	0.29	58,58,58,58	0
84	MG	18S	1881	1/1	0.99	0.26	90,90,90,90	0
84	MG	25S	3642	1/1	0.99	0.38	73,73,73,73	0
85	ZN	eL37	102	1/1	0.99	0.19	98,98,98,98	0
85	ZN	eL40	201	1/1	0.99	0.26	105,105,105,105	0
85	ZN	eL42	202	1/1	0.99	0.18	130,130,130,130	0
85	ZN	eS26	202	1/1	0.99	0.16	96,96,96,96	0
84	MG	18S	1846	1/1	0.99	0.28	77,77,77,77	0
84	MG	25S	3669	1/1	0.99	0.17	74,74,74,74	0
84	MG	25S	3405	1/1	0.99	0.41	57,57,57,57	0
84	MG	25S	3423	1/1	1.00	0.31	86,86,86,86	0
85	ZN	eL43	101	1/1	1.00	0.20	102,102,102,102	0

6.5 Other polymers (i)

There are no such residues in this entry.