Full wwPDB X-ray Structure Validation Report ⓘ

Nov 29, 2021 – 04:52 pm GMT

PDB ID	:	7OSM
Title	:	Intermediate 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	:	2021-06-09
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 ⓘ symbol.

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

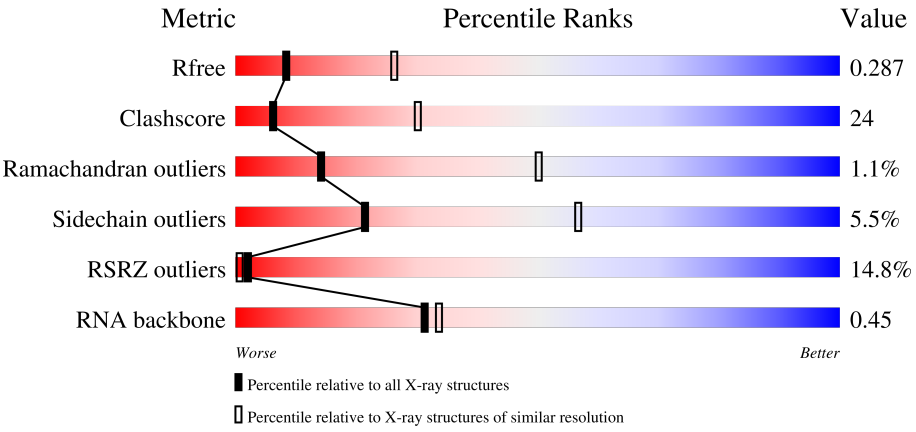
MolProbity	:	4.02b-467
Mogul	:	1.8.4 (270009), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.23.2
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0267
CCP4	:	7.1.010 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (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	38% 43% 11% • 7%
2	AB	121	45% 44% 11%
3	58S	158	% 37% 49% 14%
4	uL10	312	15% 50% 7% 42%

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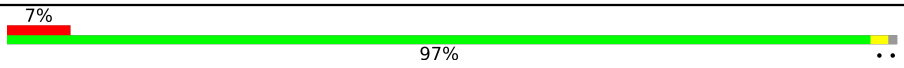
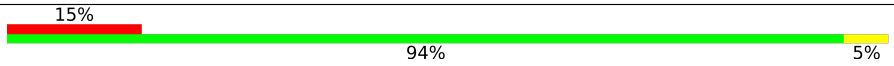
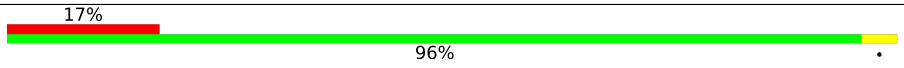
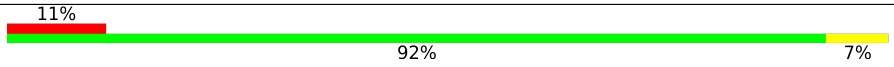
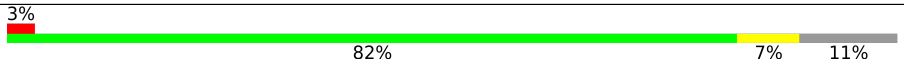
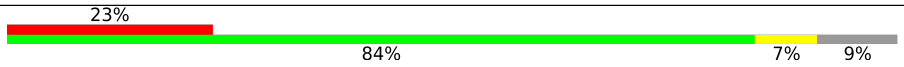
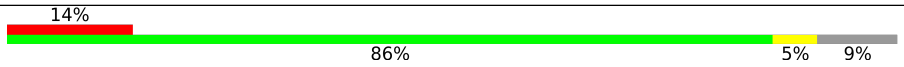
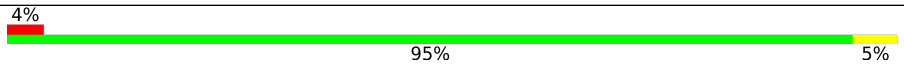
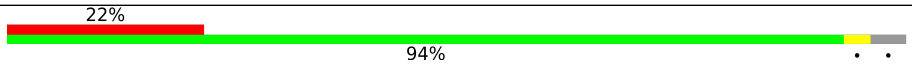
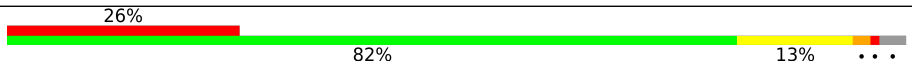
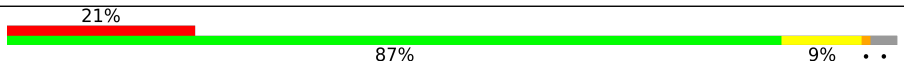
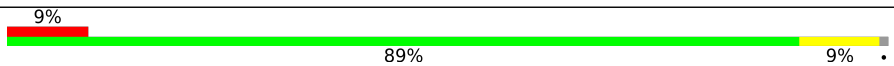
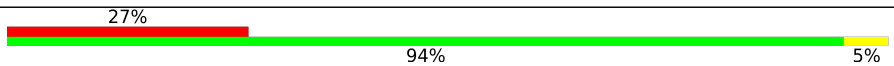
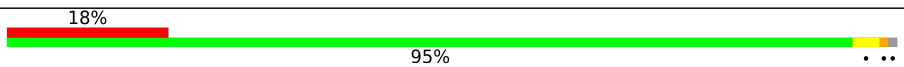
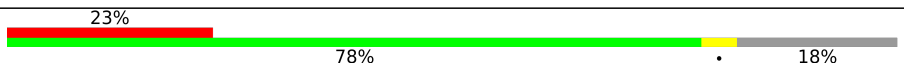
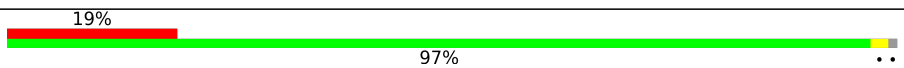
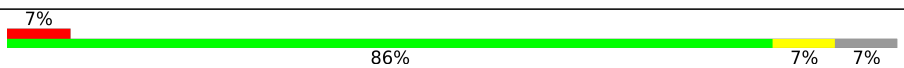
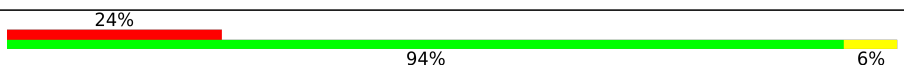
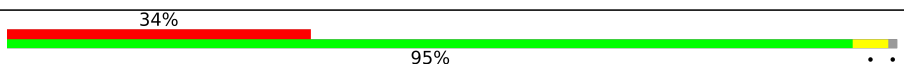
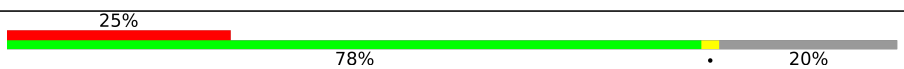
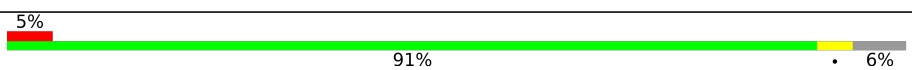
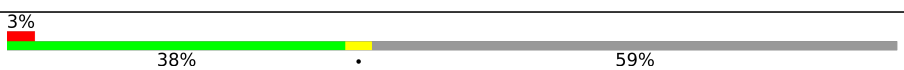
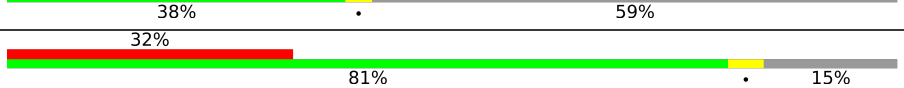
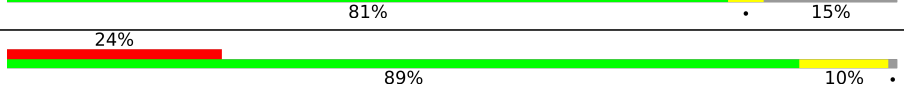
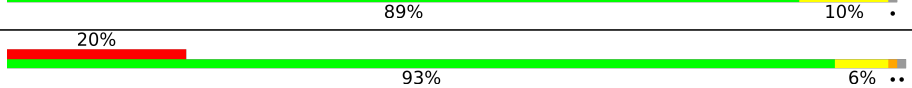
Mol	Chain	Length	Quality of chain
5	uL2	254	
6	uL3	387	
7	uL4	362	
8	uL18	297	
9	eL6	176	
10	uL30	244	
11	eL8	256	
12	uL6	191	
13	uL16	221	
14	uL5	174	
15	eL13	199	
16	eL14	138	
17	eL15	204	
18	uL13	199	
19	uL22	184	
20	eL18	186	
21	eL19	189	
22	eL20	172	
23	eL21	160	
24	eL22	121	
25	uL14	137	
26	eL24	155	
27	uL23	142	
28	uL24	127	
29	eL27	136	

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Mol	Chain	Length	Quality of chain
30	uL15	149	30% 91% 6%
31	eL29	59	12% 93% 5%
32	eL30	105	10% 89% 8%
33	eL31	113	30% 93%
34	eL32	130	25% 95%
35	eL33	107	14% 92% 7%
36	eL34	121	10% 88% 10%
37	uL29	120	17% 98%
38	eL36	100	20% 92% 7%
39	eL37	88	20% 92% 5%
40	eL38	78	6% 85% 14%
41	eL39	51	39% 84% 14%
42	eL40	128	38% 59%
43	eL41	25	24% 88% 12%
44	eL42	106	29% 90% 6%
45	eL43	92	9% 95%
46	18S	1798	% 34% 47% 14%
47	uS2	252	10% 78% 18%
48	eS1	255	18% 71% 11% 17%
49	uS5	254	29% 79% 6% 15%
50	uS3	240	38% 69% 7% 24%
51	eS4	261	23% 92% 7%
52	uS7	225	45% 82% 10% 8%
53	eS6	236	7% 81% 11% 7%
54	eS7	190	17% 87% 8%

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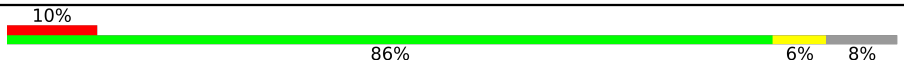
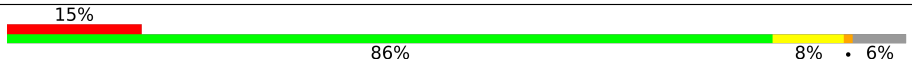
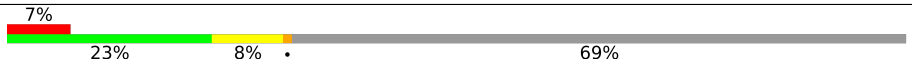
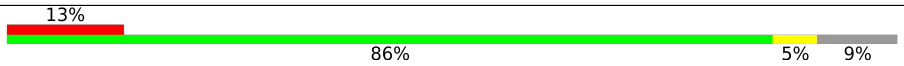
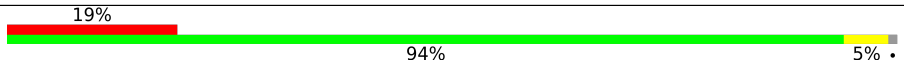
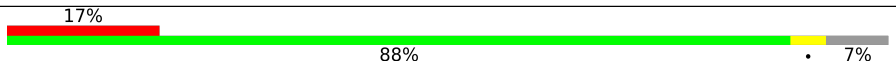
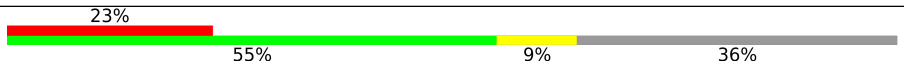
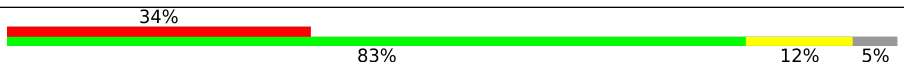
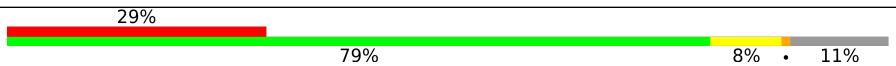
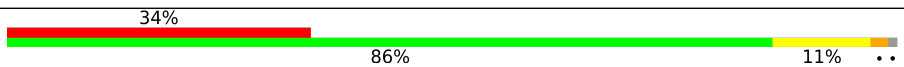
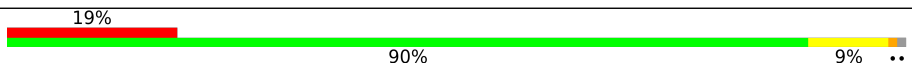
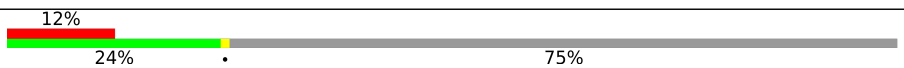
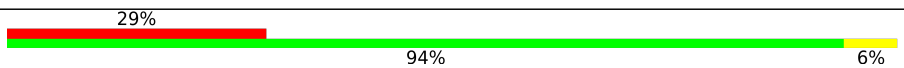
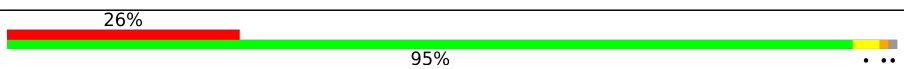
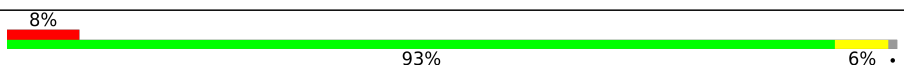
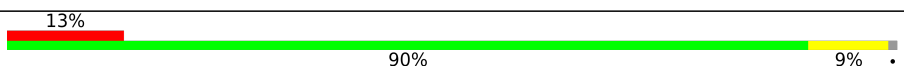
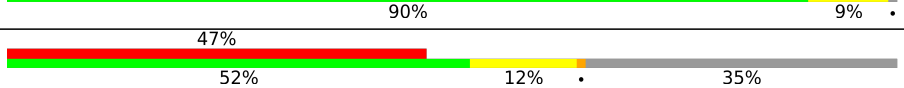
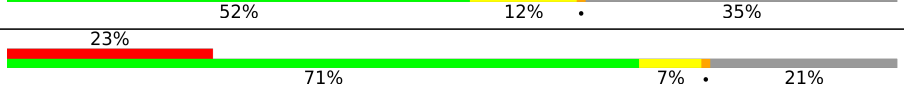
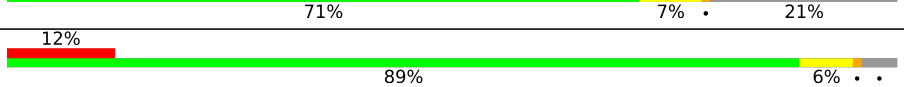
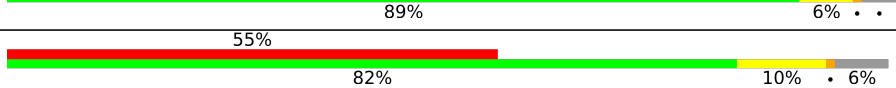
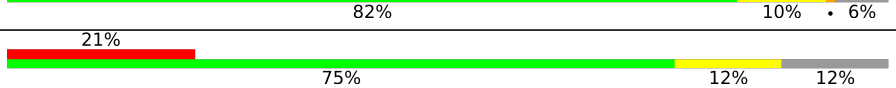
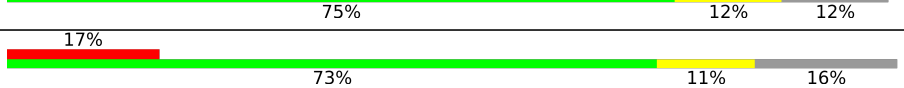
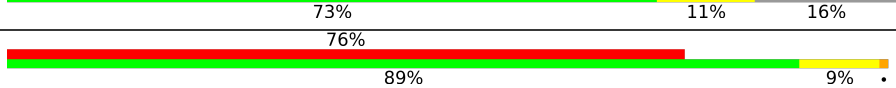
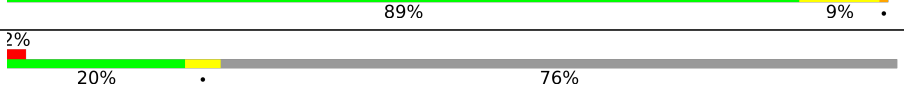
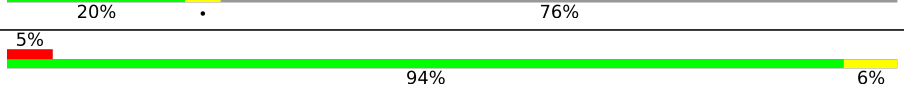
Mol	Chain	Length	Quality of chain
55	eS8	200	
56	uS4	197	
57	eS10	105	
58	uS17	156	
59	uS15	151	
60	uS11	137	
61	uS19	142	
62	uS9	143	
63	eS17	136	
64	uS13	146	
65	eS19	144	
66	uS10	121	
67	eS21	87	
68	uS8	130	
69	uS12	145	
70	eS24	135	
71	eS25	108	
72	eS26	119	
73	eS27	82	
74	eS28	67	
75	uS14	56	
76	eS30	63	
77	RACK	319	
78	eS31	152	
79	eEF2	842	

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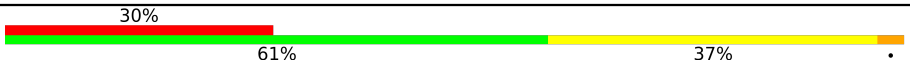
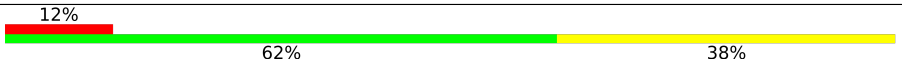
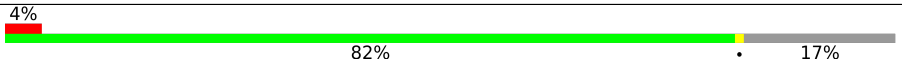
Mol	Chain	Length	Quality of chain
80	ASIT	76	
81	PSIT	77	
82	mRNA	8	
83	uL11	165	

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	1825	-	-	-	X
84	MG	18S	1886	-	-	-	X
84	MG	18S	1896	-	-	-	X
84	MG	18S	1899	-	-	-	X
84	MG	25S	3438	-	-	-	X
84	MG	25S	3472	-	-	-	X
84	MG	25S	3484	-	-	-	X
84	MG	25S	3488	-	-	-	X
84	MG	25S	3515	-	-	-	X
84	MG	25S	3532	-	-	-	X
84	MG	25S	3534	-	-	-	X
84	MG	25S	3547	-	-	-	X
84	MG	25S	3567	-	-	-	X
84	MG	25S	3578	-	-	-	X
84	MG	25S	3600	-	-	-	X
84	MG	25S	3615	-	-	-	X
84	MG	25S	3633	-	-	-	X
84	MG	25S	3649	-	-	-	X
84	MG	25S	3656	-	-	-	X
84	MG	25S	3687	-	-	-	X
84	MG	25S	3702	-	-	-	X
84	MG	25S	3714	-	-	-	X
84	MG	PSIT	102	-	-	-	X
84	MG	eL30	201	-	-	-	X
84	MG	eL42	201	-	-	-	X

2 Entry composition

There are 86 unique types of molecules in this entry. The entry contains 207073 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	3162	67633	30210	12192	22069	3162	0	0	0

- Molecule 2 is a RNA chain called 5S rRNA.

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	180	1397	898	239	257	3	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	252	1914	1191	388	334	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	233	Total	C	N	O	S	0	0	0
			1804	1151	323	327	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	213	Total	C	N	O	S	0	0	0
			1732	1096	329	301	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	151	Total	C	N	O	0	0	0
			1195	745	233	217			

- 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	176	Total	C	N	O	0	0	0
			1423	875	308	240			

- 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	97	Total	C	N	O	0	0	0
			770	499	126	145			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	uL14	129	Total	C	N	O	S	0	0	0
			963	607	180	169	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	120	Total	C	N	O	S	0	0	0
			959	617	168	172	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	109	Total	C	N	O	S	0	0	0
			861	533	175	149	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	84	Total	C	N	O	S	0	0	0
			665	405	145	110	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	102	Total	C	N	O	S	0	0	0
			819	514	166	134	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	1732	Total	C	N	O	P	0	0	0
			36918	16504	6551	12131	1732			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	uS2	206	Total	C	N	O	S	0	0	0
			1577	1014	278	283	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	eS1	212	Total	C	N	O	S	0	0	0
			1689	1073	303	309	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	183	Total	C	N	O	S	0	0	0
			1412	893	260	253	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	219	Total	C	N	O	S	0	0	0
			1766	1108	341	314	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	184	Total	C	N	O	S	0	0	0
			1457	906	291	258	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	33	Total	C	N	O	0	0	0
			300	199	46	55			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	uS17	142	Total	C	N	O	S	0	0	0
			1146	735	217	191	3			

- Molecule 59 is a protein called 40S ribosomal protein S13.

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

- Molecule 60 is a protein called 40S ribosomal protein S14-A.

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

- Molecule 61 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
61	uS19	91	Total	C	N	O	S	0	0	0
			732	469	138	120	5			

- Molecule 62 is a protein called BJ4_G0008010.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
62	uS9	136	Total	C	N	O	0	0	0
			1069	686	195	188			

- Molecule 63 is a protein called BJ4_G0020710.mRNA.1.CDS.1.

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

- Molecule 64 is a protein called 40S ribosomal protein S18-B.

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

- Molecule 65 is a protein called 40S ribosomal protein S19-A.

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

- Molecule 66 is a protein called 40S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
66	uS10	30	Total	C	N	O	S	0	0	0
			245	155	44	45	1			

- Molecule 67 is a protein called 40S ribosomal protein S21.

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

- Molecule 68 is a protein called 40S ribosomal protein S22-A.

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

- Molecule 69 is a protein called 40S ribosomal protein S23.

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

- Molecule 70 is a protein called 40S ribosomal protein S24.

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

- Molecule 71 is a protein called 40S ribosomal protein S25.

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

- Molecule 72 is a protein called 40S ribosomal protein S26.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
72	eS26	94	Total	C	N	O	S	0	0	0
			750	462	157	126	5			

- Molecule 73 is a protein called 40S ribosomal protein S27-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
73	eS27	79	Total	C	N	O	S	0	0	0
			590	370	104	111	5			

- Molecule 74 is a protein called eS28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
74	eS28	63	Total	C	N	O	S	0	0	0
			497	306	99	91	1			

- Molecule 75 is a protein called HLJ1_G0030400.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
75	uS14	49	Total	C	N	O	S	0	0	0
			404	249	86	65	4			

- Molecule 76 is a protein called 40S ribosomal protein S30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
76	eS30	53	Total	C	N	O	S	0	0	0
			427	269	88	69	1			

- Molecule 77 is a protein called BJ4_G0022010.mRNA.1.CDS.1.

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

- Molecule 78 is a protein called Ubiquitin-40S ribosomal protein S31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
78	eS31	36	Total	C	N	O	S	0	0	0
			276	173	54	45	4			

- Molecule 79 is a protein called Elongation factor 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
79	eEF2	842	Total	C	N	O	S	0	0	0
			6569	4173	1126	1239	31			

- Molecule 80 is a RNA chain called PHE tRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
80	ASIT	76	Total	C	N	O	P	0	0	0
			1636	734	291	536	75			

- Molecule 81 is a RNA chain called FMET tRNA.

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	8	Total	C	N	O	P	0	0	0
			169	76	29	56	8			

- 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
			673	399	137	137			

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

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
84	25S	317	Total Mg 324 324	0	7
84	AB	5	Total Mg 5 5	0	0
84	58S	7	Total Mg 7 7	0	0
84	uL2	3	Total Mg 3 3	0	0
84	uL3	1	Total Mg 1 1	0	0
84	uL18	2	Total Mg 2 2	0	0
84	uL16	1	Total Mg 1 1	0	0
84	eL15	1	Total Mg 1 1	0	0
84	uL22	1	Total Mg 1 1	0	0
84	eL18	1	Total Mg 1 1	0	0
84	eL20	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	eL31	1	Total Mg 1 1	0	0
84	eL32	1	Total Mg 1 1	0	0
84	eL33	1	Total Mg 1 1	0	0
84	eL40	1	Total Mg 1 1	0	0
84	eL41	1	Total Mg 1 1	0	0
84	eL42	2	Total Mg 2 2	0	0
84	18S	122	Total Mg 122 122	0	0
84	eS1	1	Total Mg 1 1	0	0
84	eS4	3	Total Mg 3 3	0	0

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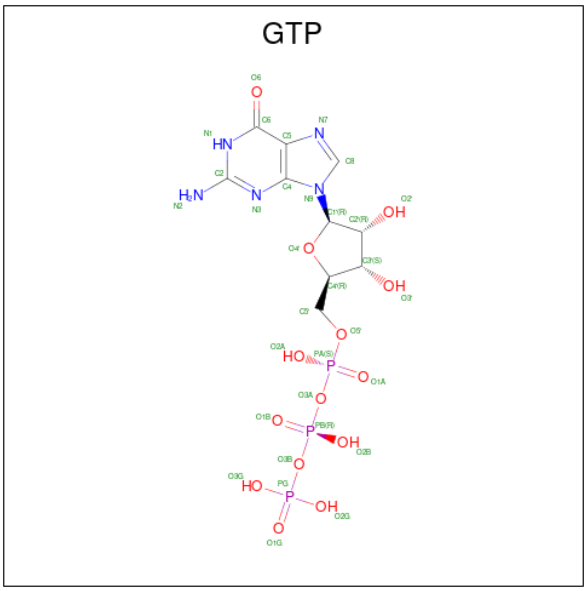
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
84	eS6	2	Total Mg 2 2	0	0
84	uS15	1	Total Mg 1 1	0	0
84	uS19	1	Total Mg 1 1	0	0
84	uS12	3	Total Mg 3 3	0	0
84	eS26	1	Total Mg 1 1	0	0
84	uS14	1	Total Mg 1 1	0	0
84	eEF2	6	Total Mg 6 6	0	0
84	ASIT	1	Total Mg 1 1	0	0
84	PSIT	6	Total Mg 6 6	0	0
84	mRNA	1	Total Mg 1 1	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: $C_{10}H_{16}N_5O_{14}P_3$).



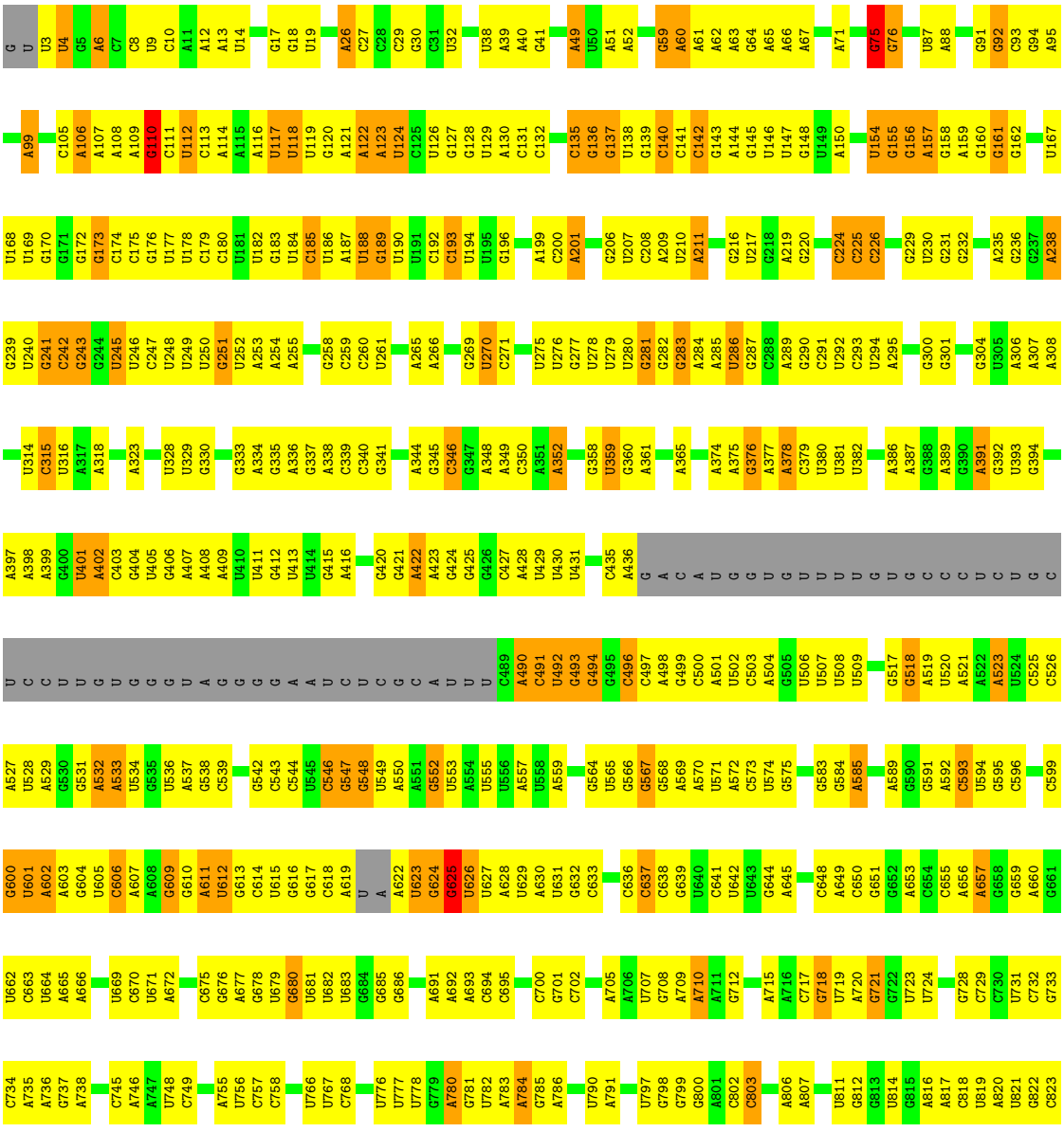
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
86	eEF2	1	32	10	5	14	3	0	0

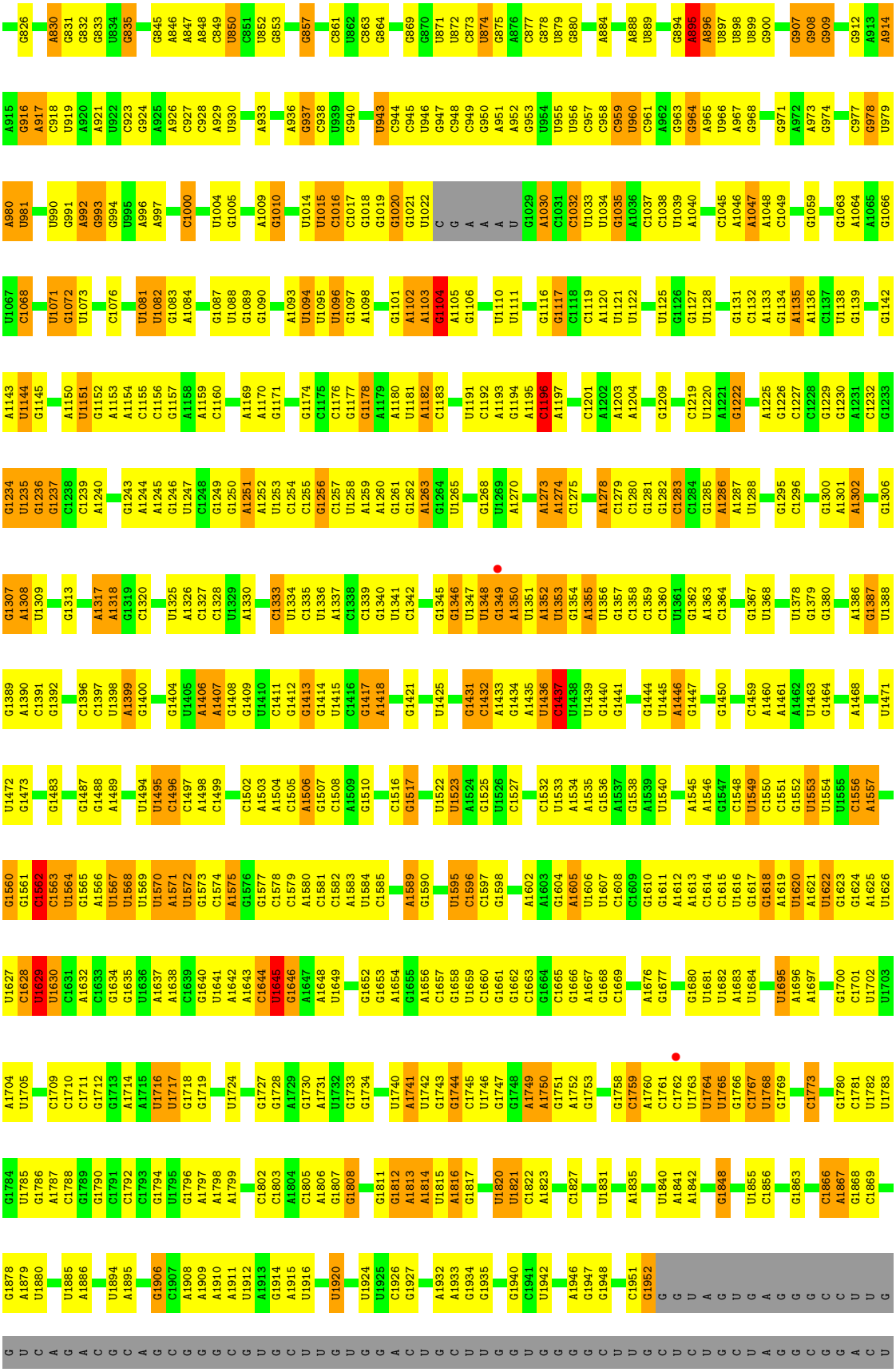
3 Residue-property plots (i)

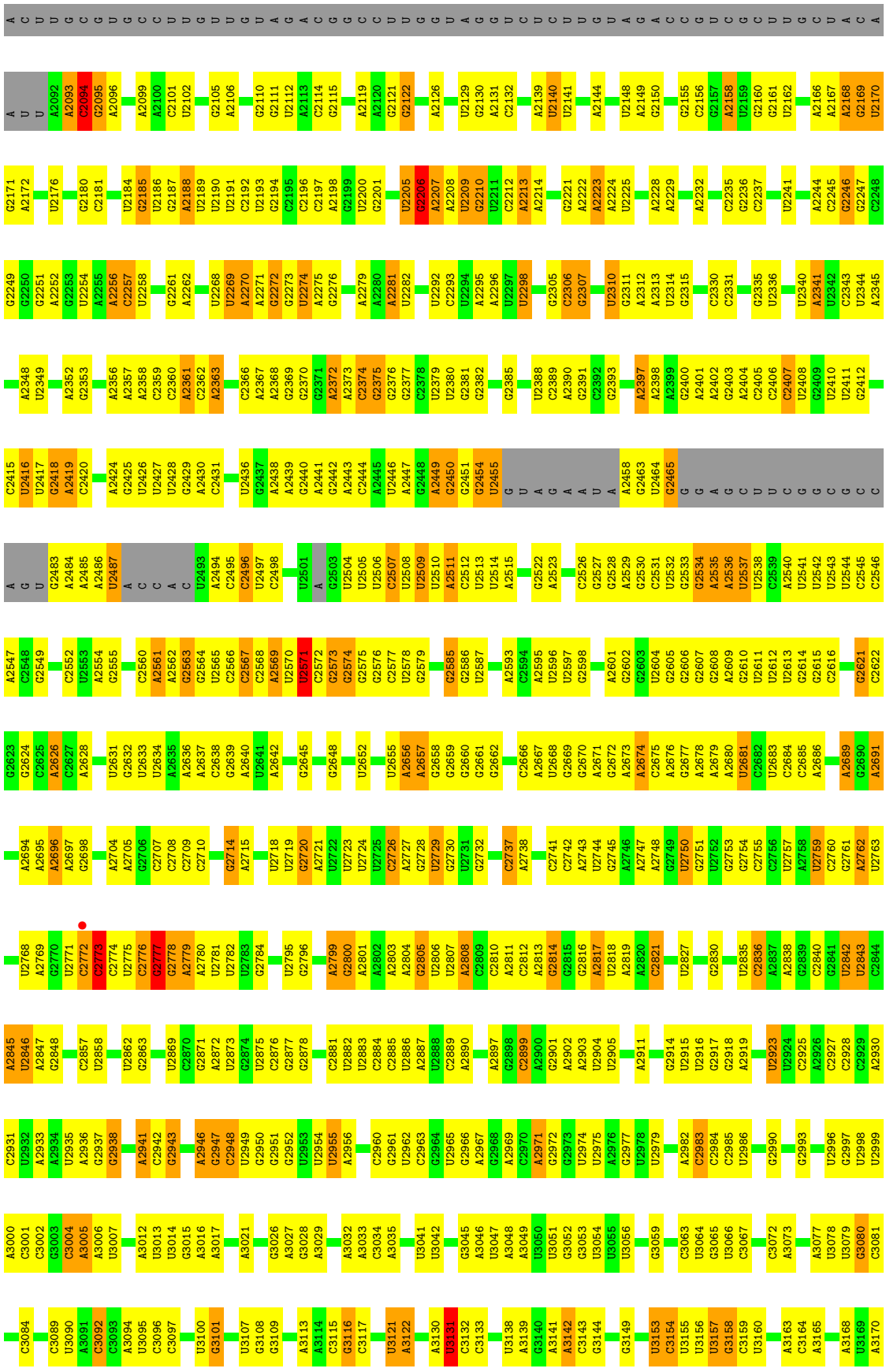
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

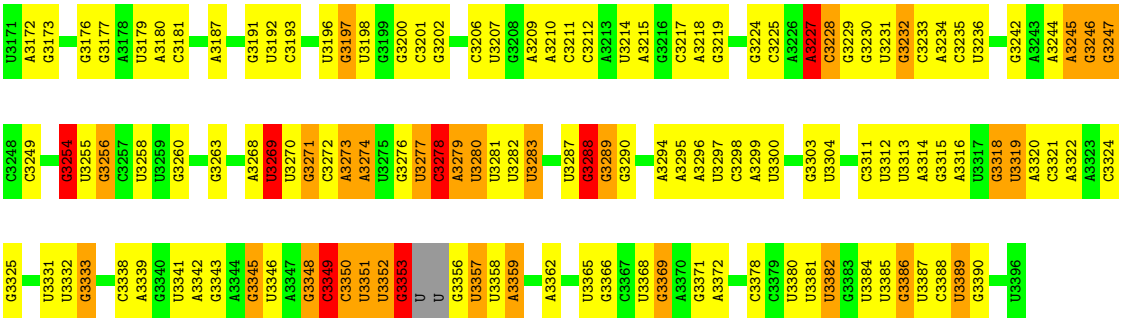
- Molecule 1: 25S rRNA

Chain 25S:



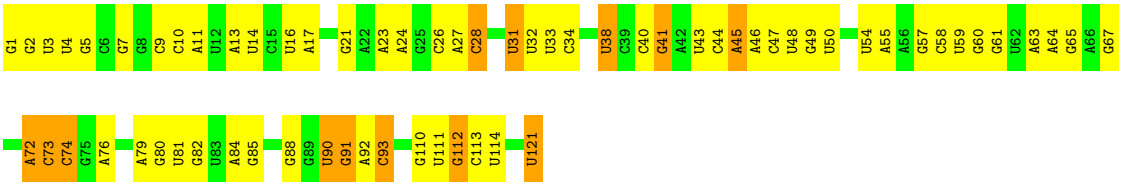






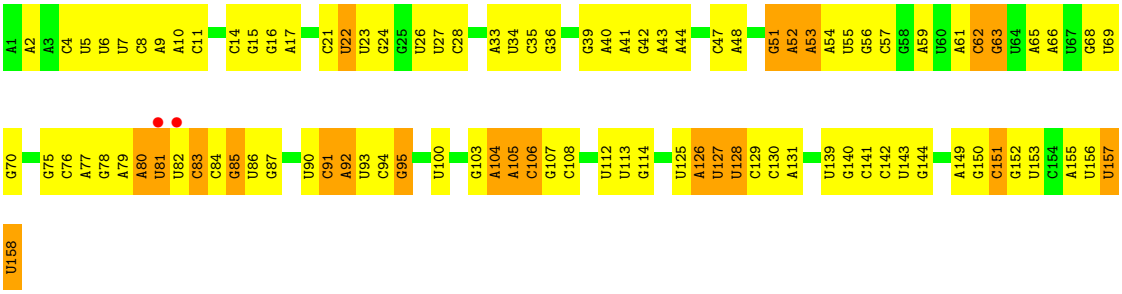
• Molecule 2: 5S rRNA

Chain AB:



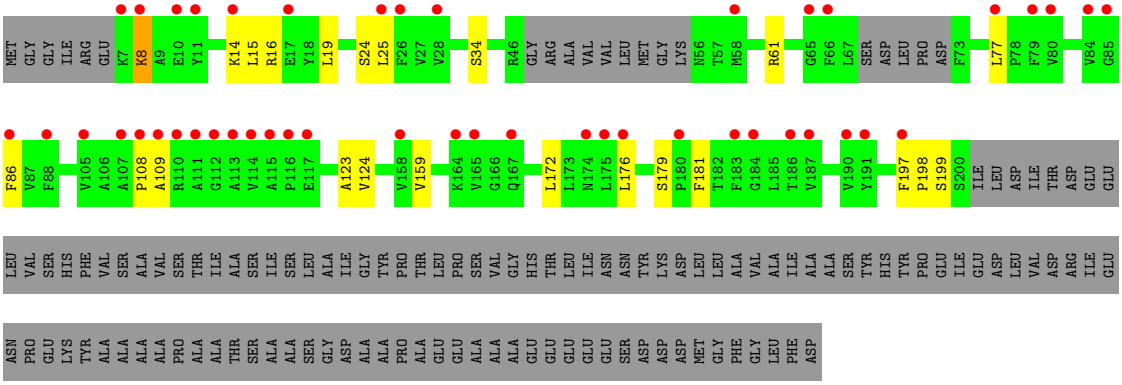
• Molecule 3: 5.8S rRNA

Chain 58S:



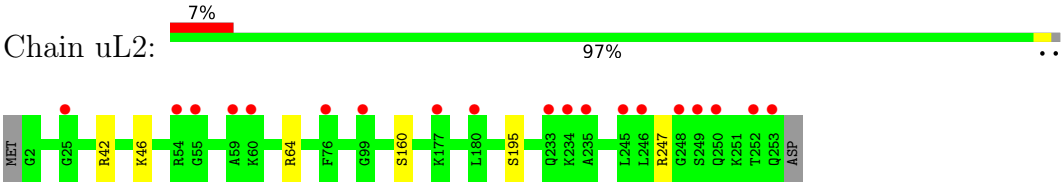
• Molecule 4: 60S acidic ribosomal protein P0

Chain uL10:



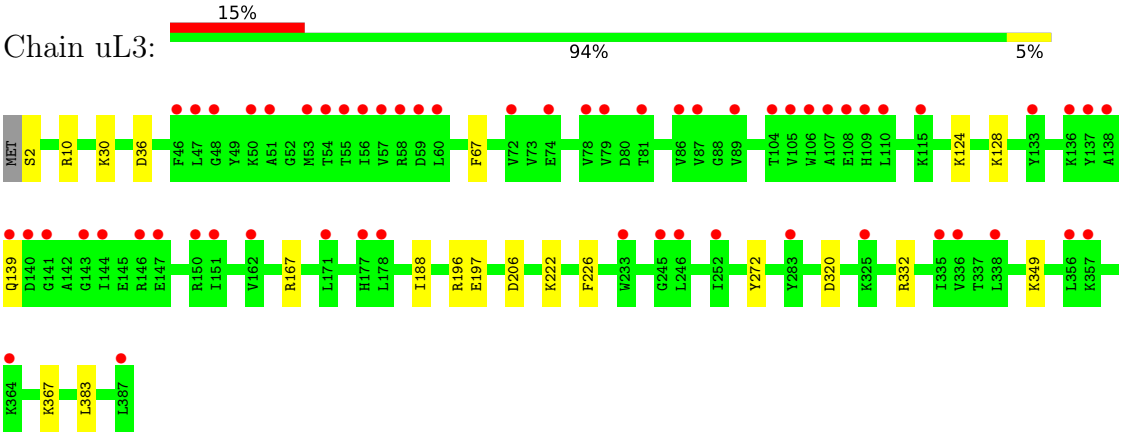
• Molecule 5: 60S ribosomal protein L2-B

Chain uL2:



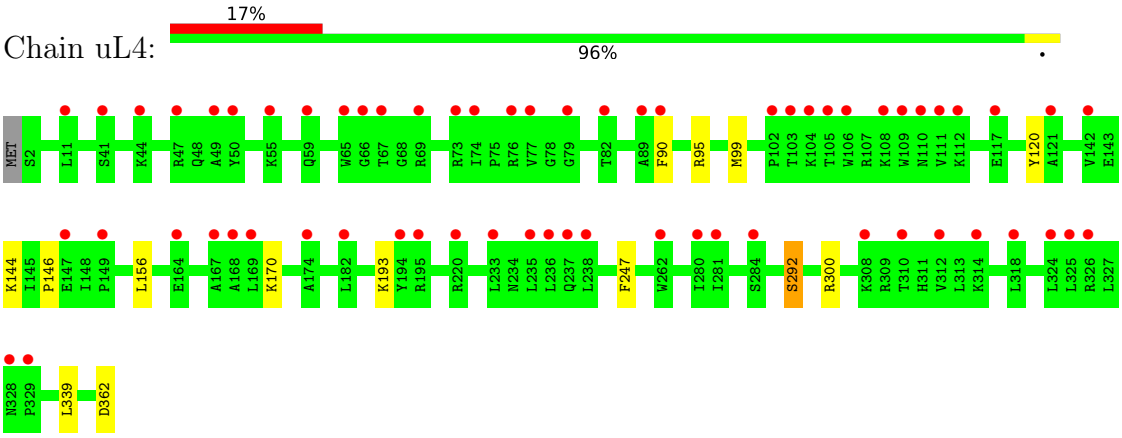
• Molecule 6: 60S ribosomal protein L3

Chain uL3:



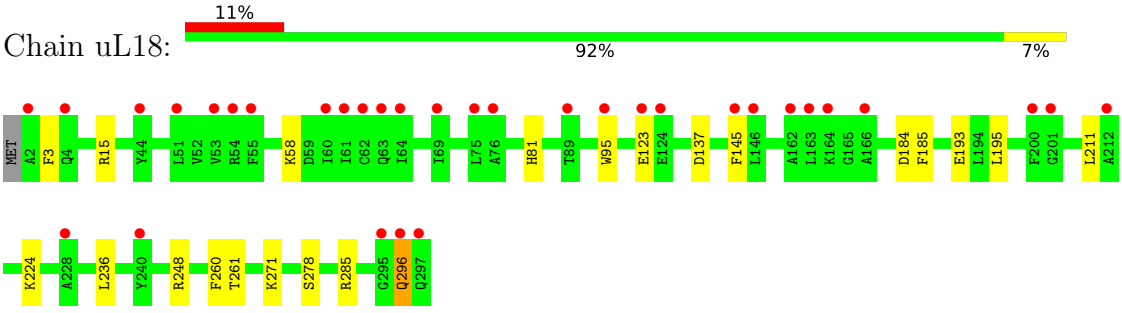
• Molecule 7: BJ4_G0008850.mRNA.1.CDS.1

Chain uL4:



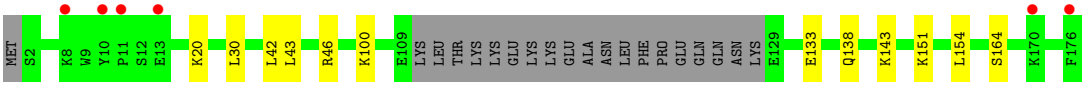
• Molecule 8: 60S ribosomal protein L5

Chain uL18:



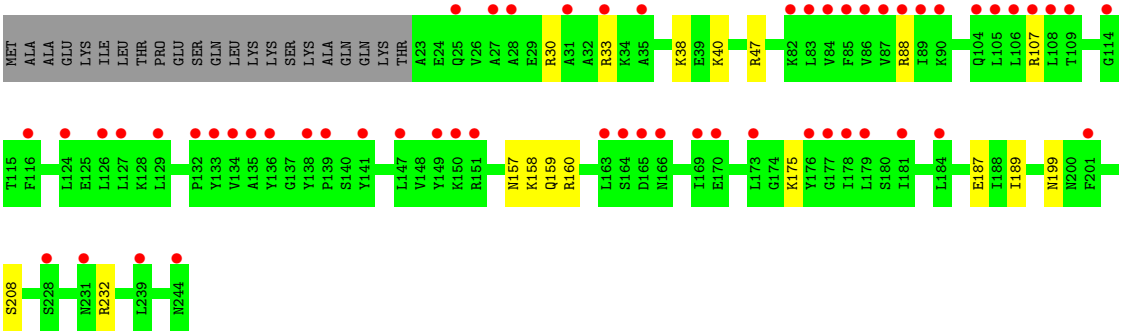
• Molecule 9: 60S ribosomal protein L6

Chain eL6:



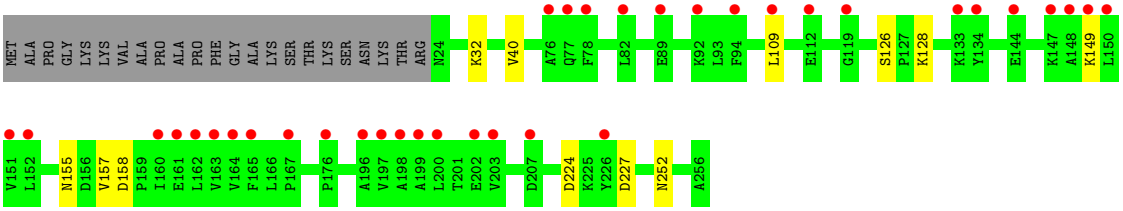
• Molecule 10: 60S ribosomal protein L7-A

Chain uL30:



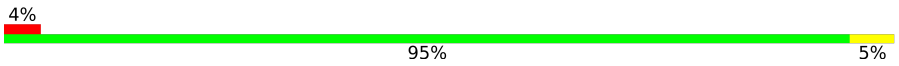
• Molecule 11: 60S ribosomal protein L8-A

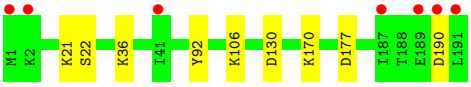
Chain eL8:



• Molecule 12: 60S ribosomal protein L9-A

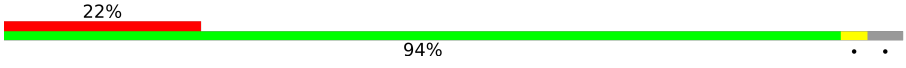
Chain uL6:

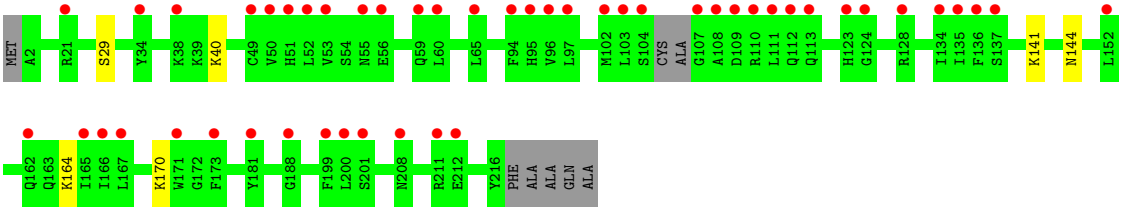




• Molecule 13: 60S ribosomal protein L10

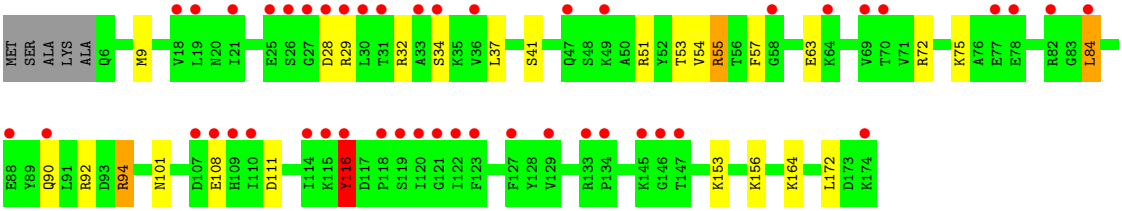
Chain uL16:



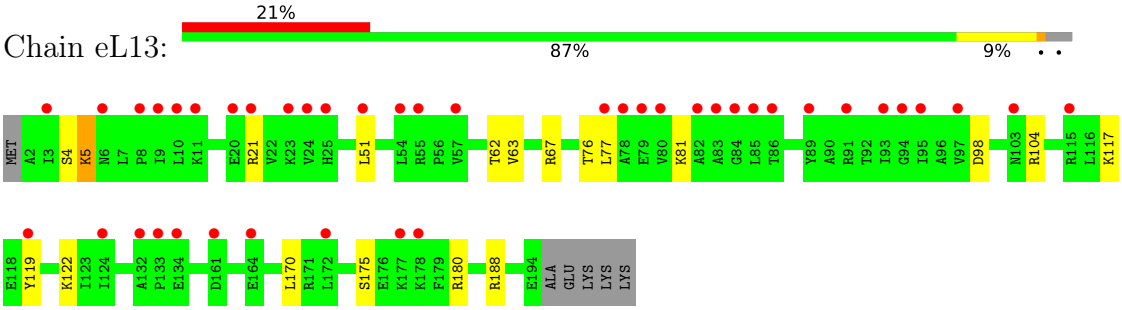


• Molecule 14: BJ4_G0027750.mRNA.1.CDS.1

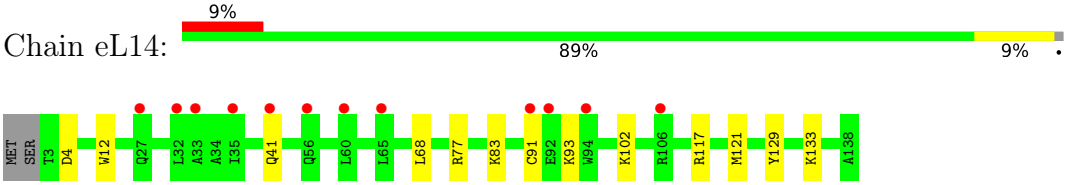
Chain uL5:



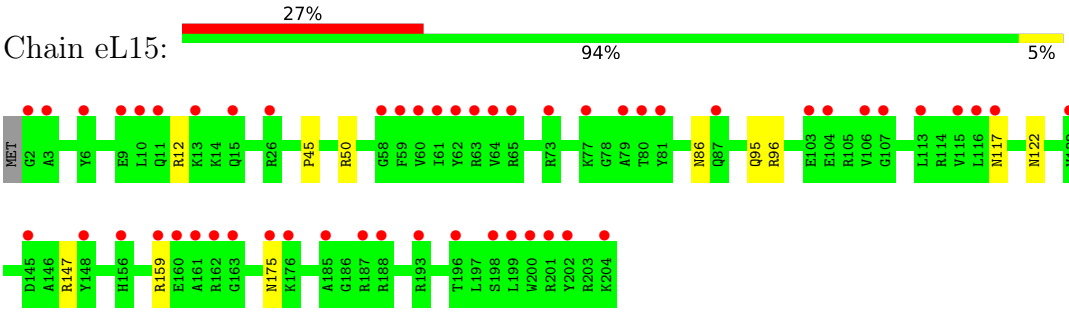
• Molecule 15: 60S ribosomal protein L13



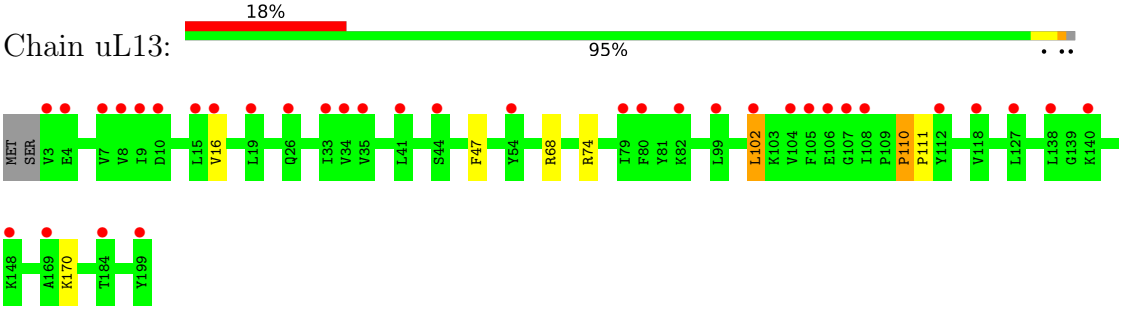
• Molecule 16: 60S ribosomal protein L14-A



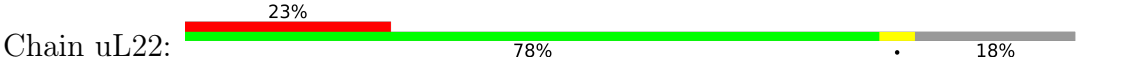
• Molecule 17: 60S ribosomal protein L15-A

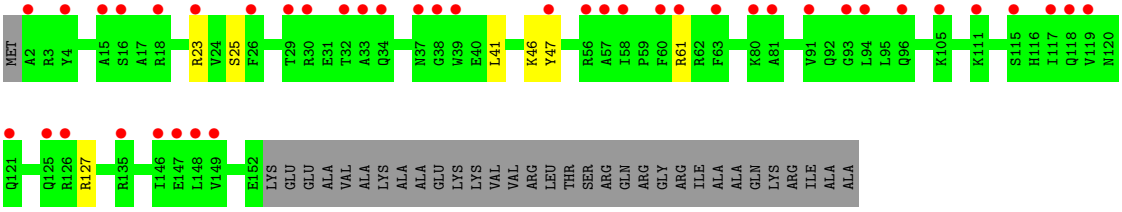


• Molecule 18: 60S ribosomal protein L16-A



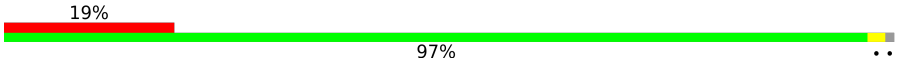
• Molecule 19: BJ4_G0005750.mRNA.1.CDS.1

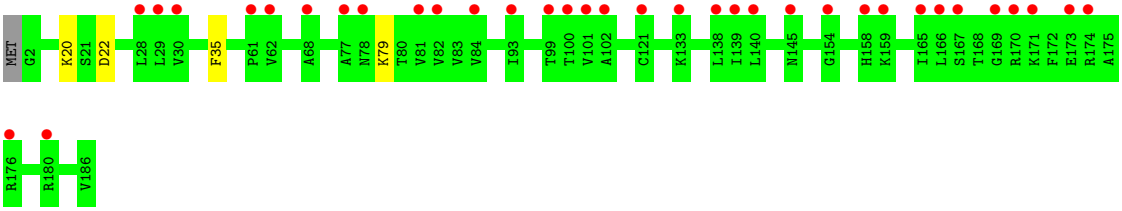




• Molecule 20: BJ4_G0033900.mRNA.1.CDS.1

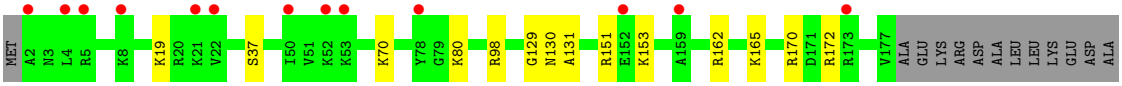
Chain eL18:





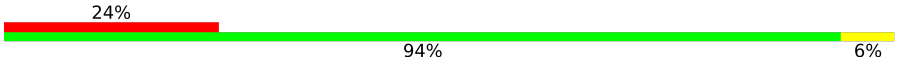
• Molecule 21: 60S ribosomal protein L19-A

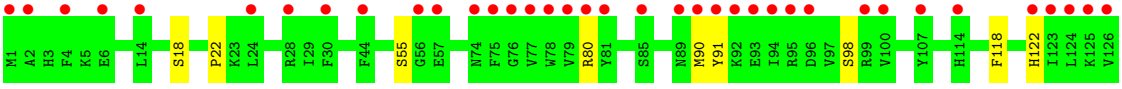
Chain eL19:



• Molecule 22: 60S ribosomal protein L20

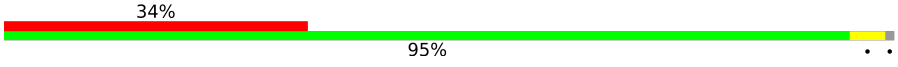
Chain eL20:

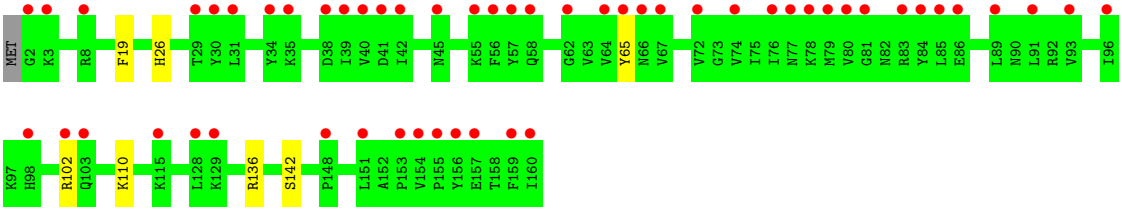




• Molecule 23: BJ4_G0003770.mRNA.1.CDS.1

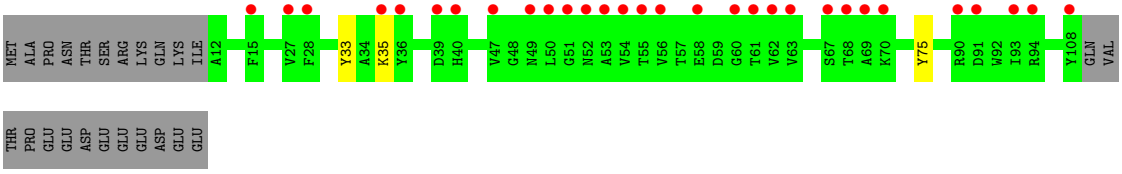
Chain eL21:





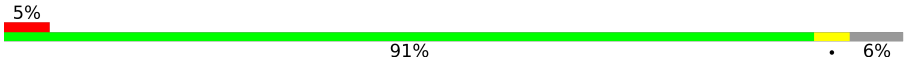
• Molecule 24: 60S ribosomal protein L22-A

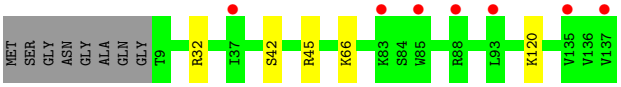
Chain eL22:



• Molecule 25: 60S ribosomal protein L23-B

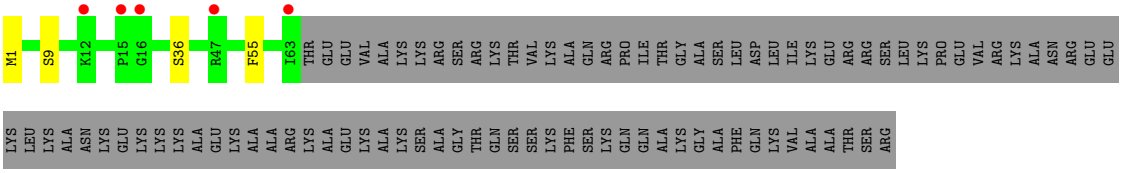
Chain uL14:





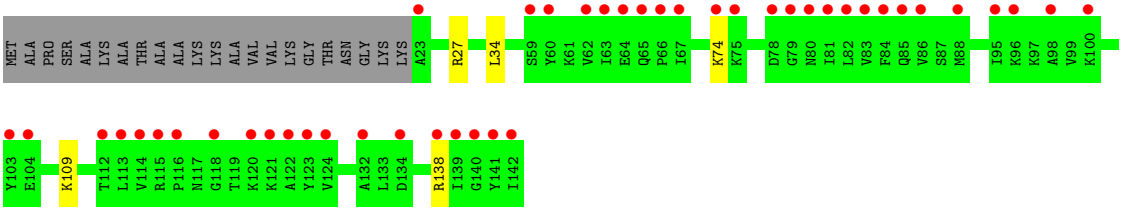
• Molecule 26: 60S ribosomal protein L24-A

Chain eL24:



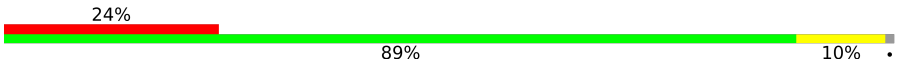
• Molecule 27: 60S ribosomal protein L25

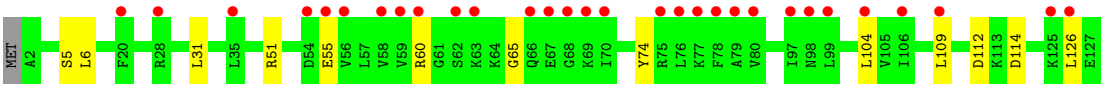
Chain uL23:



• Molecule 28: 60S ribosomal protein L26-A

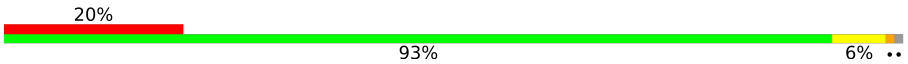
Chain uL24:

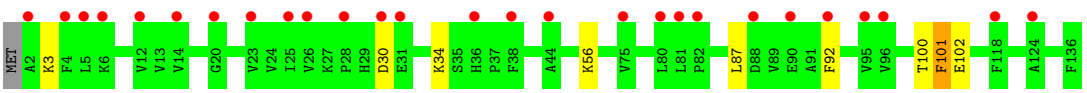




• Molecule 29: 60S ribosomal protein L27

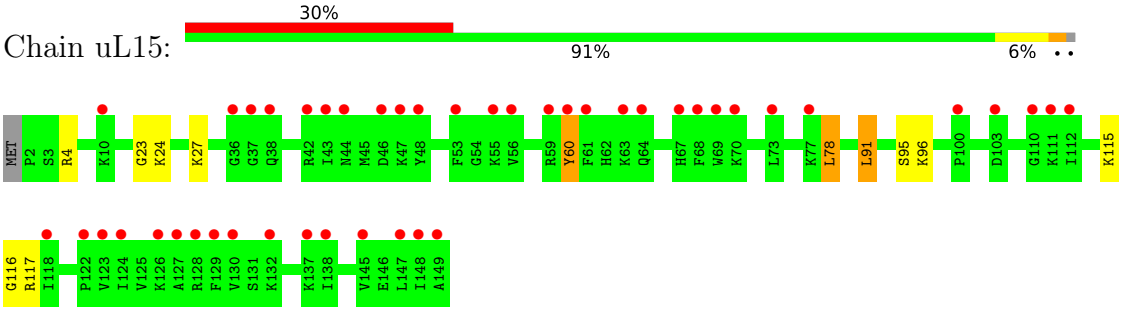
Chain eL27:





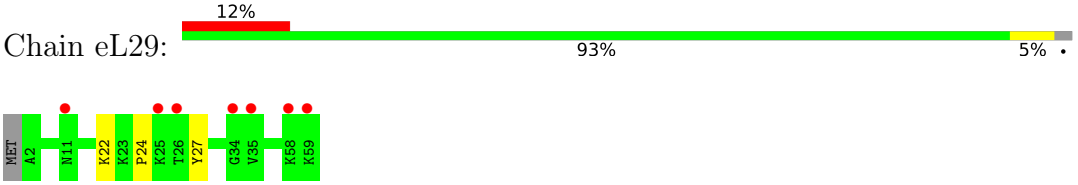
• Molecule 30: 60S ribosomal protein L28

Chain uL15:



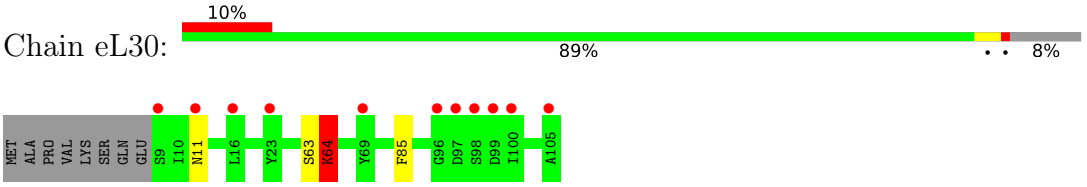
• Molecule 31: 60S ribosomal protein L29

Chain eL29:



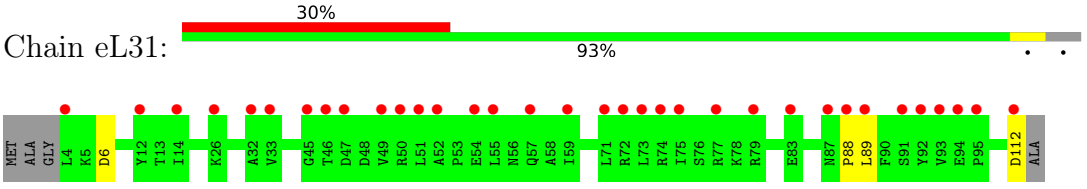
• Molecule 32: BJ4_G0020000.mRNA.1.CDS.1

Chain eL30:



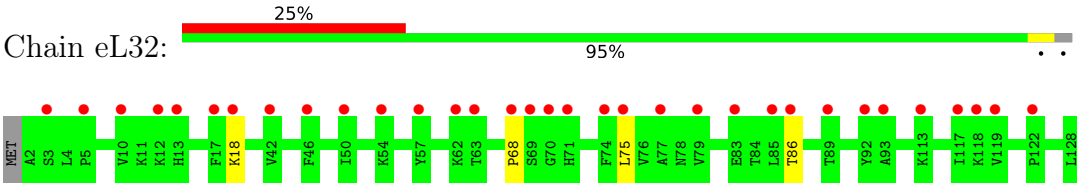
• Molecule 33: BJ4_G0008090.mRNA.1.CDS.1

Chain eL31:



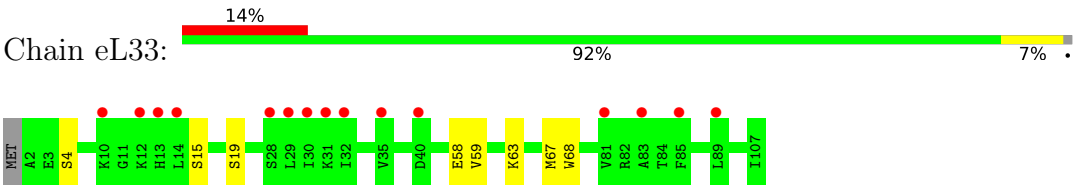
• Molecule 34: HN1_G0013350.mRNA.1.CDS.1

Chain eL32:



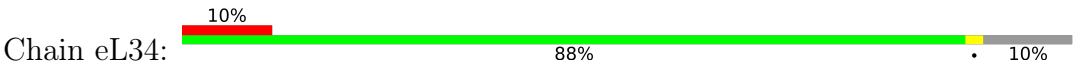
• Molecule 35: BJ4_G0025510.mRNA.1.CDS.1

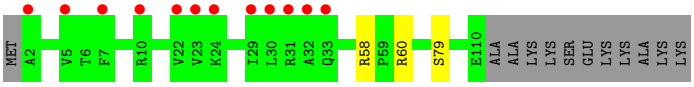
Chain eL33:



• Molecule 36: 60S ribosomal protein L34-A

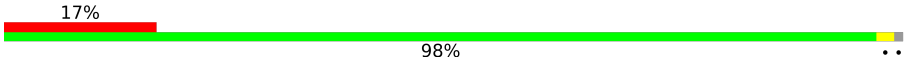
Chain eL34:

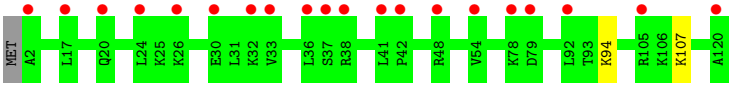




• Molecule 37: BJ4_G0044250.mRNA.1.CDS.1

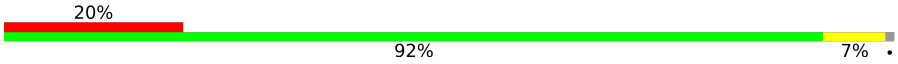
Chain uL29:

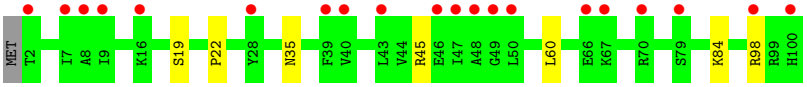




• Molecule 38: 60S ribosomal protein L36-A

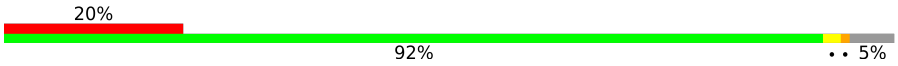
Chain eL36:

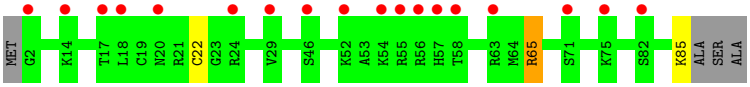




• Molecule 39: Ribosomal protein L37

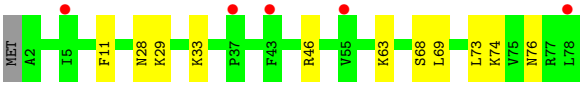
Chain eL37:





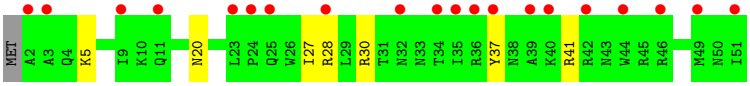
• Molecule 40: BJ4_G0032190.mRNA.1.CDS.1

Chain eL38:



• Molecule 41: 60S ribosomal protein L39

Chain eL39:

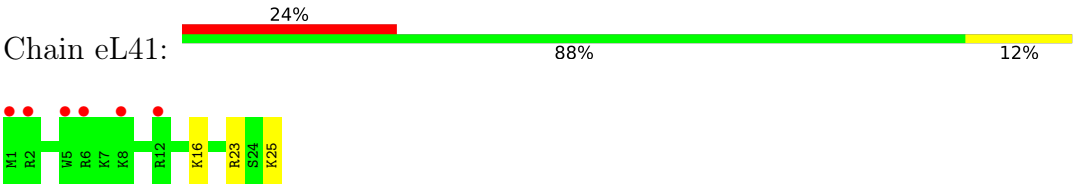


• Molecule 42: Ubiquitin

Chain eL40:

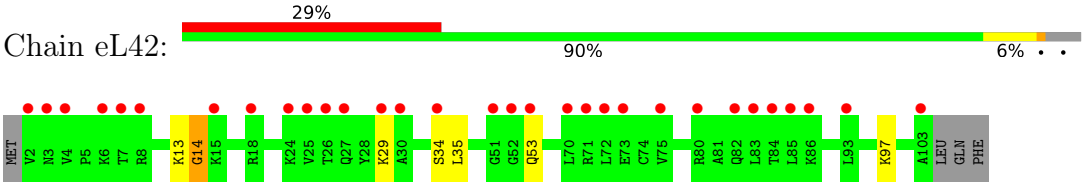
• Molecule 43: eL41

Chain eL41:



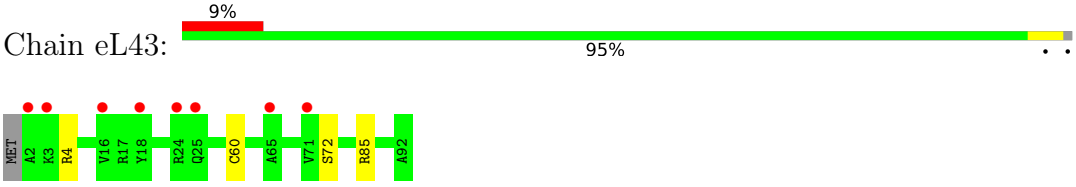
• Molecule 44: BJ4_G0001880.mRNA.1.CDS.1

Chain eL42:



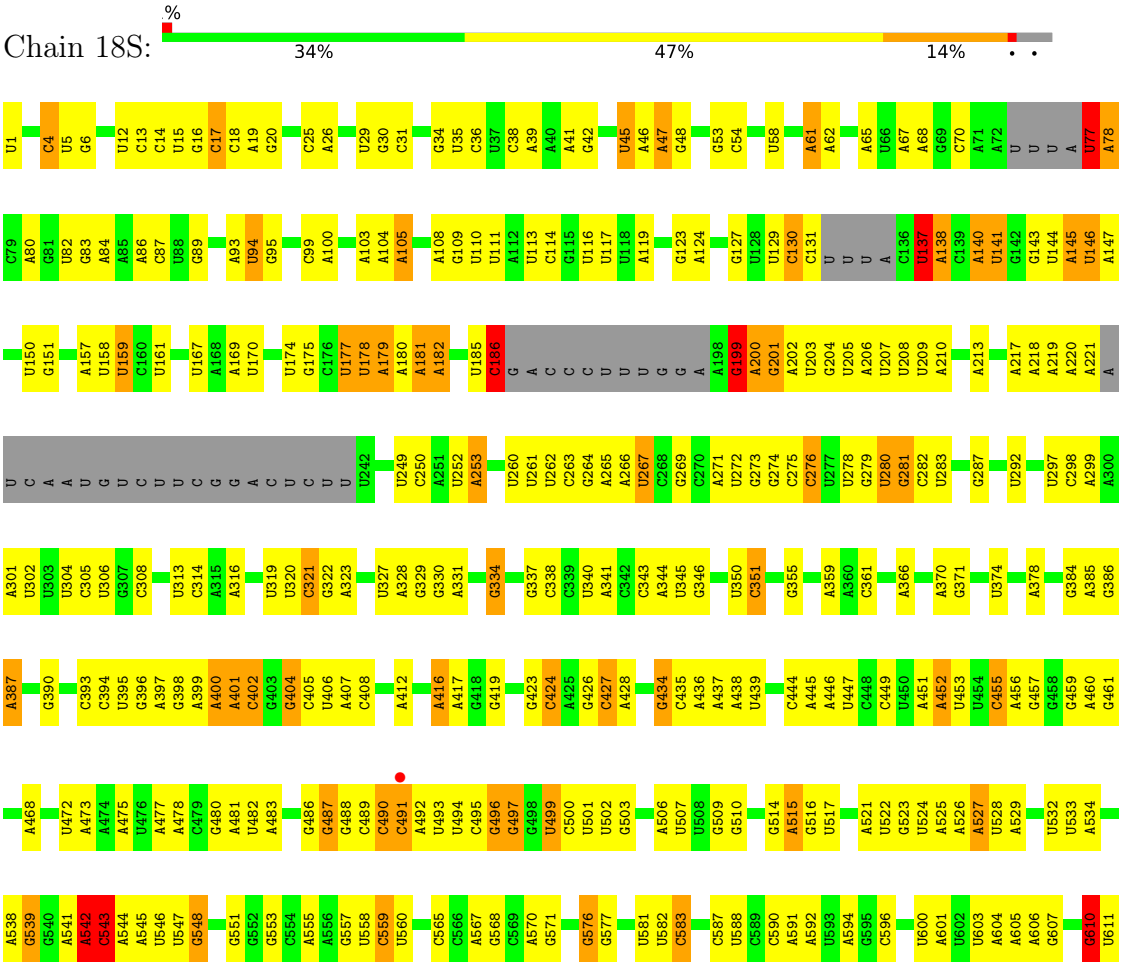
• Molecule 45: 60S ribosomal protein L43-A

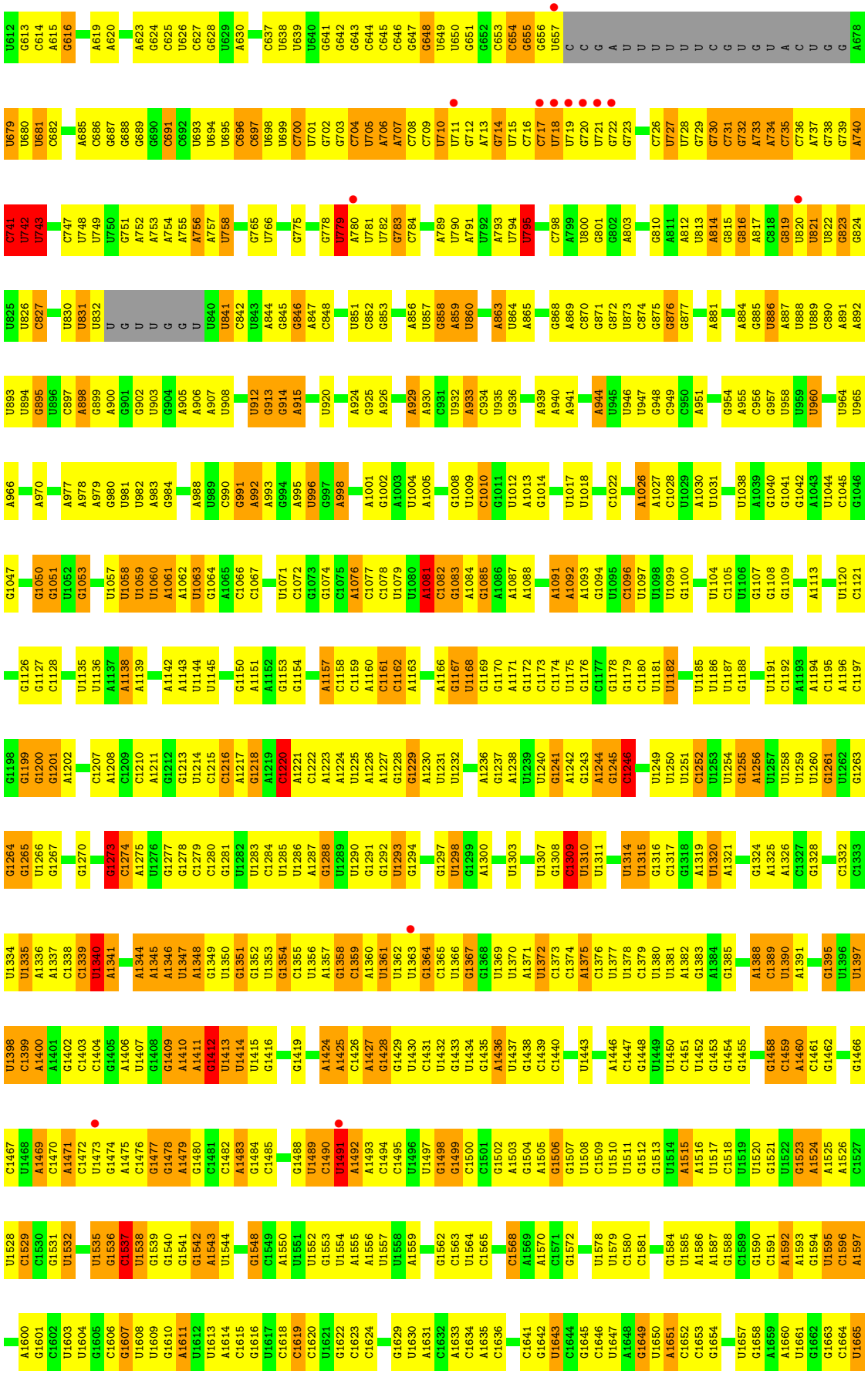
Chain eL43:

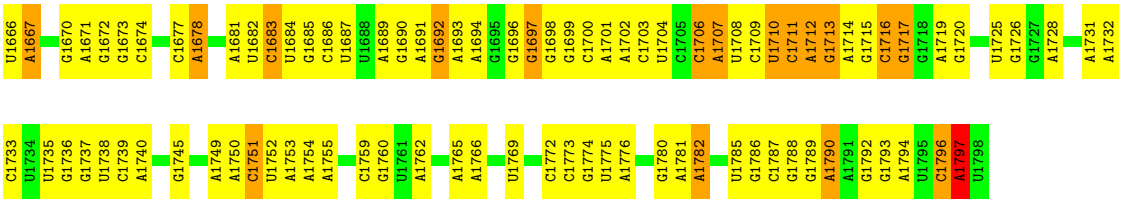


• Molecule 46: 18S rRNA

Chain 18S:

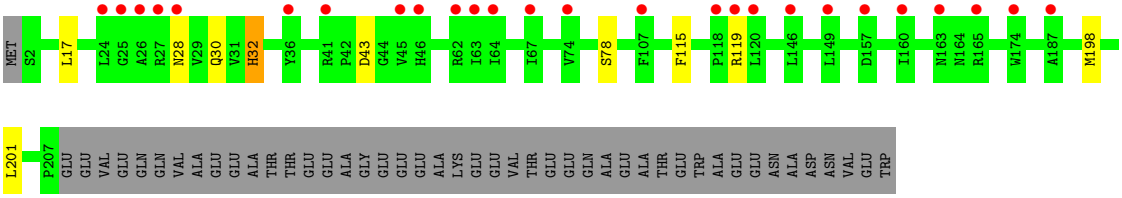






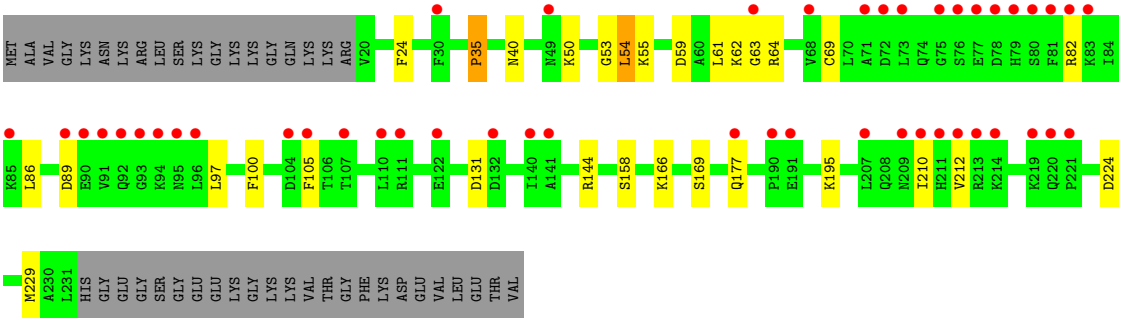
• Molecule 47: 40S ribosomal protein S0

Chain uS2:



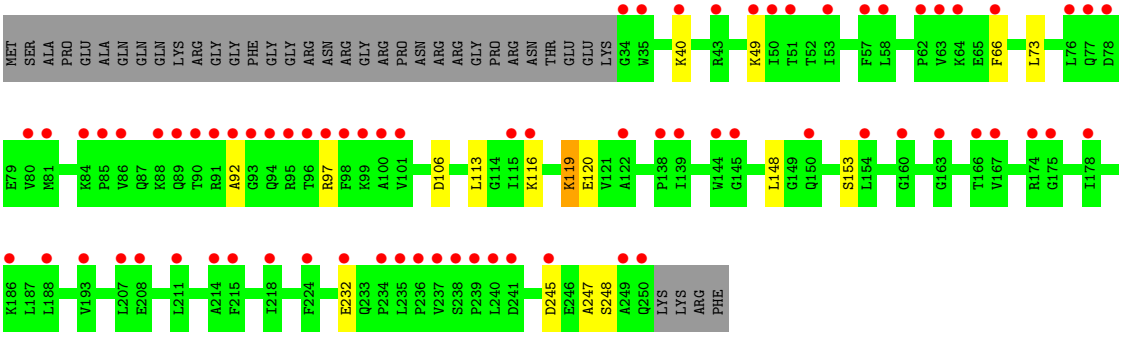
• Molecule 48: 40S ribosomal protein S1

Chain eS1:



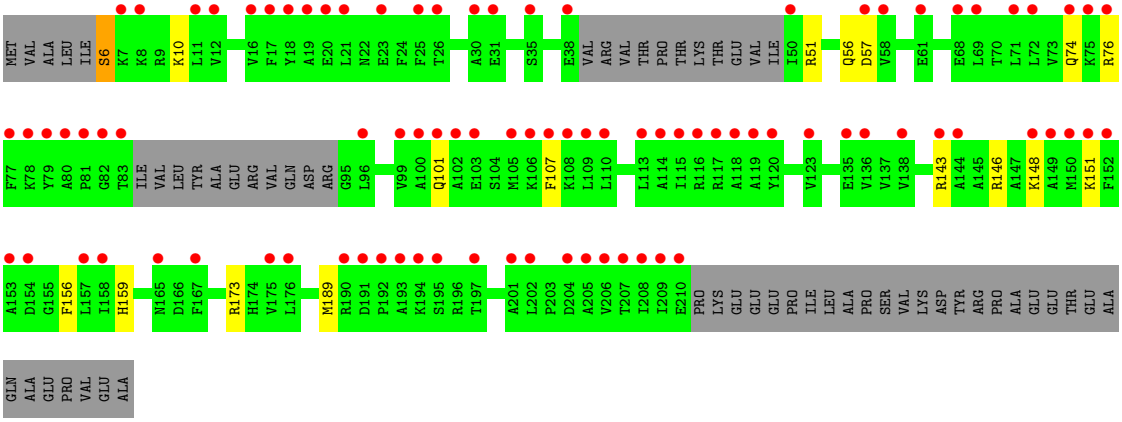
• Molecule 49: 40S ribosomal protein S2

Chain uS5:



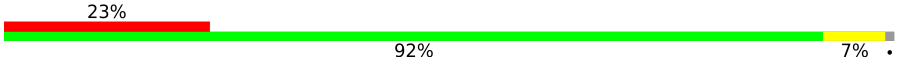
• Molecule 50: BJ4_G0045400.mRNA.1.CDS.1

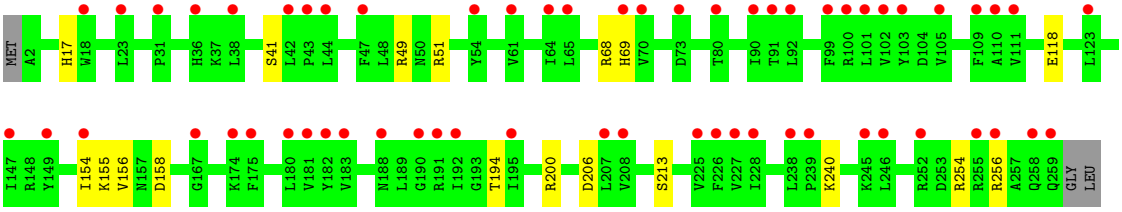
Chain uS3:



• Molecule 51: 40S ribosomal protein S4

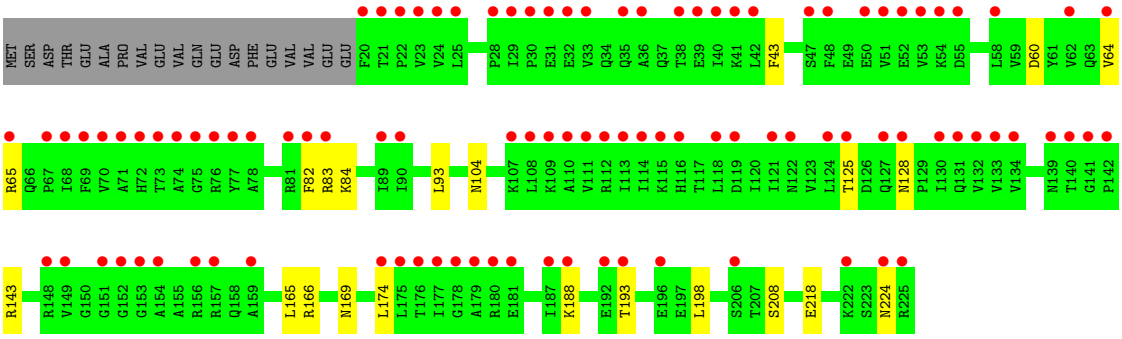
Chain eS4:





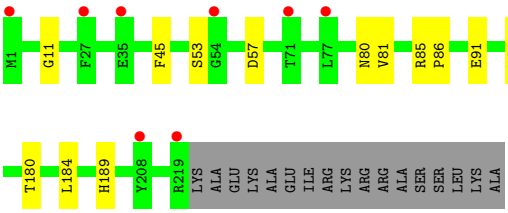
• Molecule 52: Rps5p

Chain uS7:



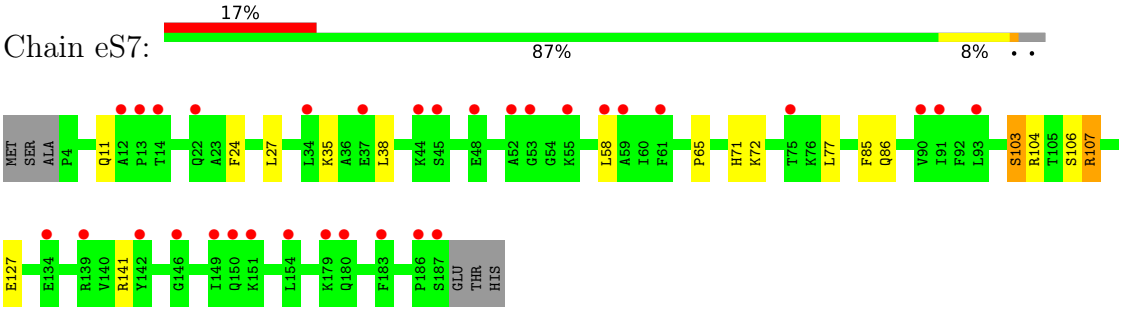
• Molecule 53: 40S ribosomal protein S6

Chain eS6:



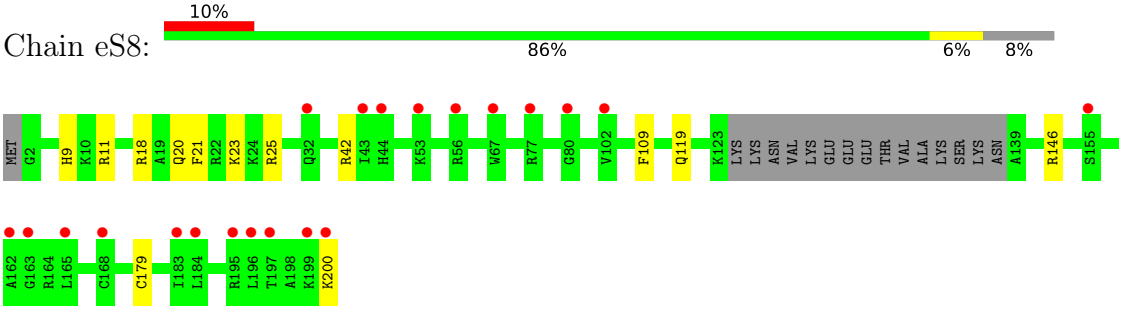
• Molecule 54: 40S ribosomal protein S7

Chain eS7:



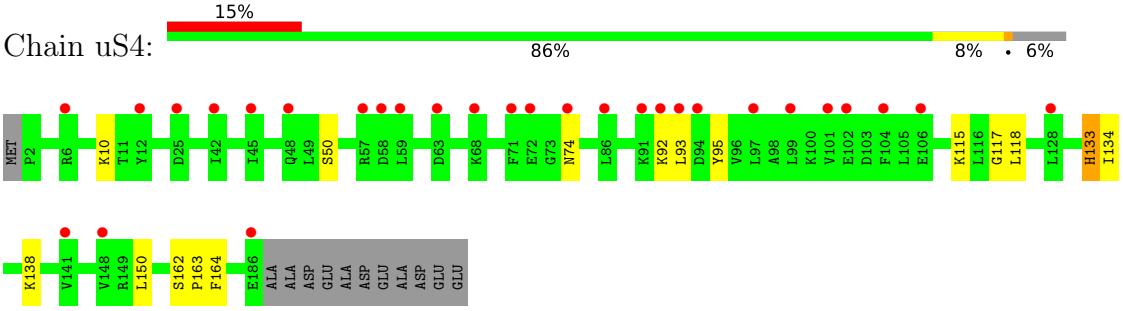
• Molecule 55: 40S ribosomal protein S8

Chain eS8:



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

Chain uS4:

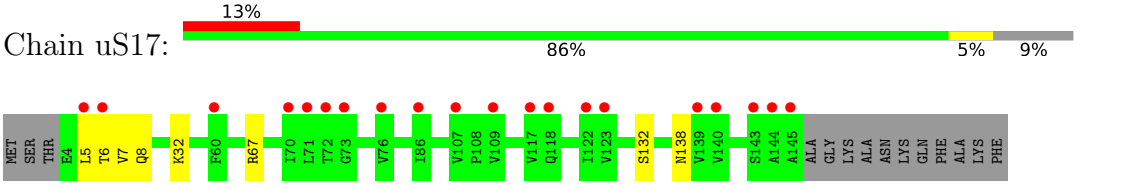


• Molecule 57: 40S ribosomal protein S10-A

Chain eS10:

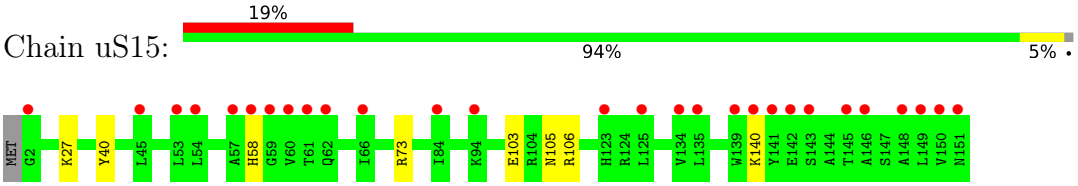
• Molecule 58: 40S ribosomal protein S11-B

Chain uS17:



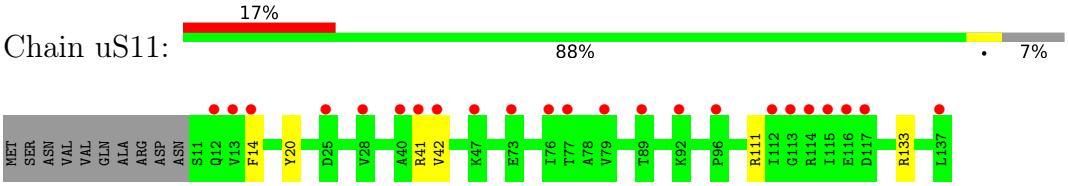
• Molecule 59: 40S ribosomal protein S13

Chain uS15:



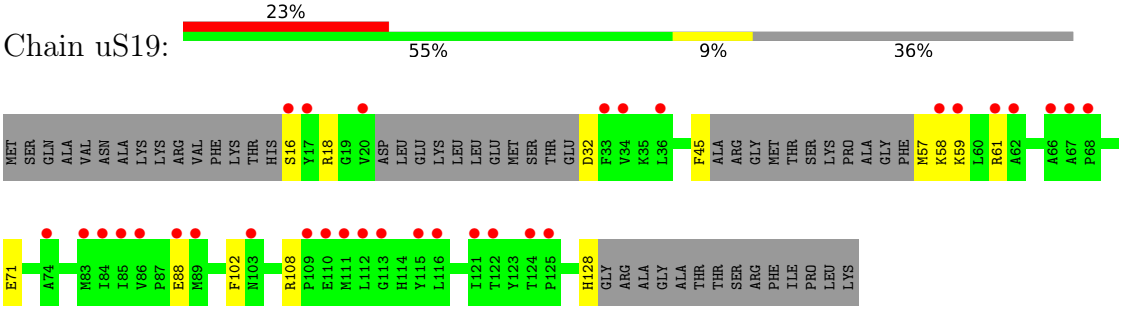
• Molecule 60: 40S ribosomal protein S14-A

Chain uS11:



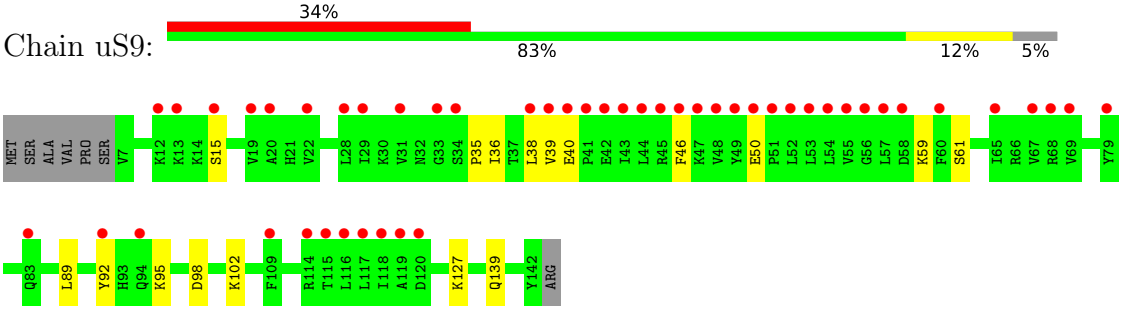
• Molecule 61: 40S ribosomal protein S15

Chain uS19:



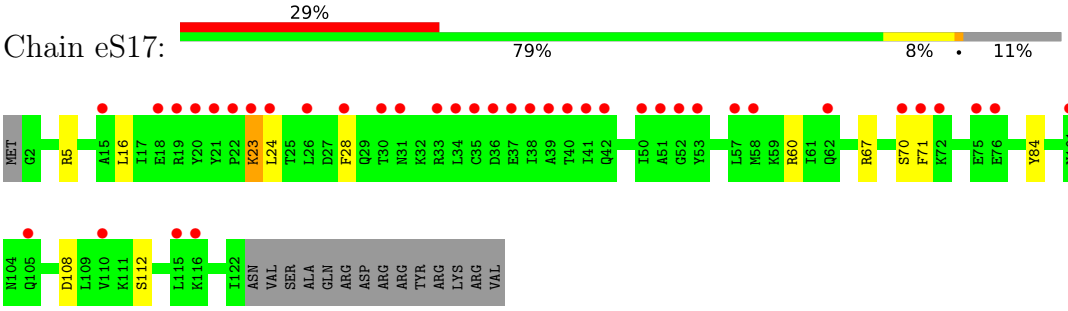
• Molecule 62: BJ4_G0008010.mRNA.1.CDS.1

Chain uS9:



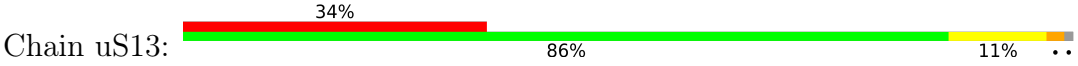
• Molecule 63: BJ4_G0020710.mRNA.1.CDS.1

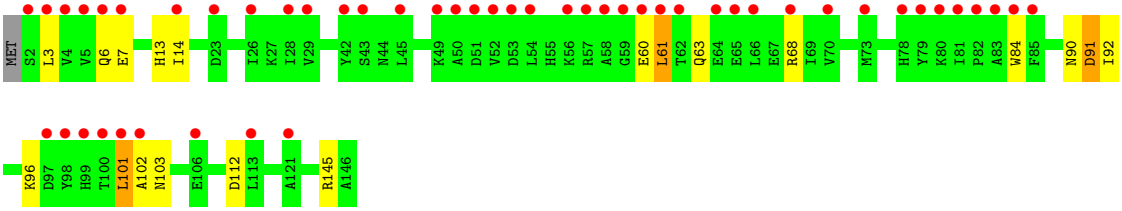
Chain eS17:



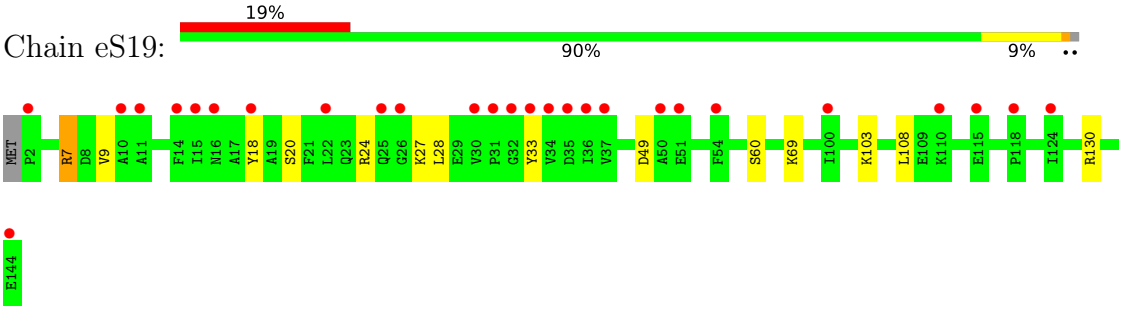
• Molecule 64: 40S ribosomal protein S18-B

Chain uS13:

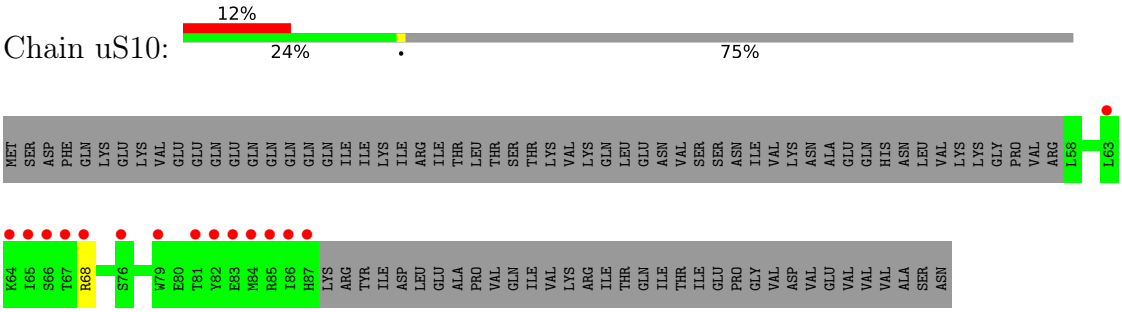




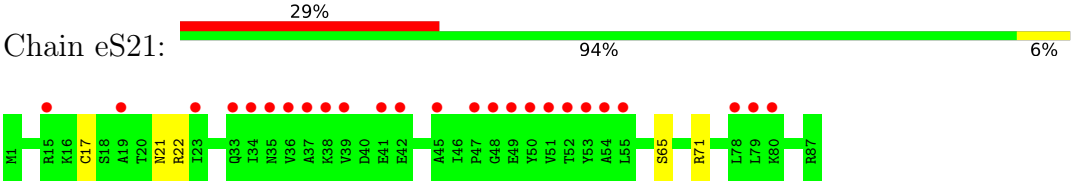
• Molecule 65: 40S ribosomal protein S19-A



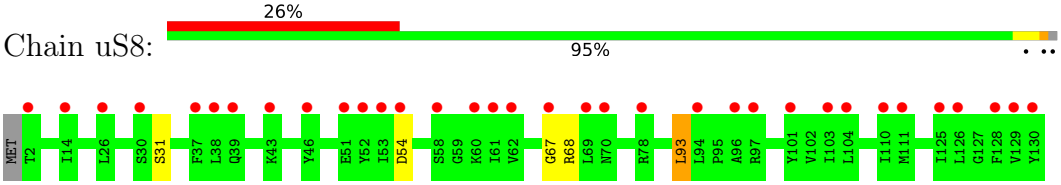
• Molecule 66: 40S ribosomal protein S20



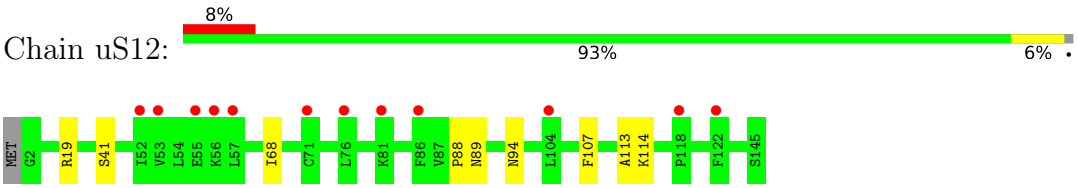
• Molecule 67: 40S ribosomal protein S21



• Molecule 68: 40S ribosomal protein S22-A

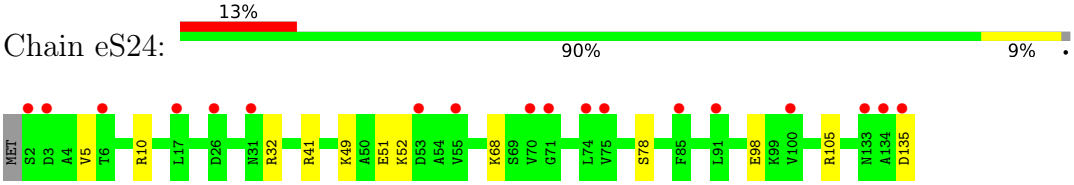


• Molecule 69: 40S ribosomal protein S23



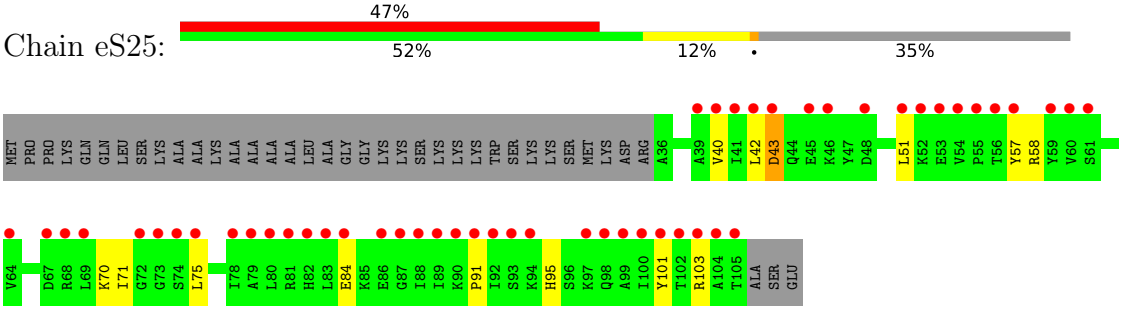
• Molecule 70: 40S ribosomal protein S24

Chain eS24:



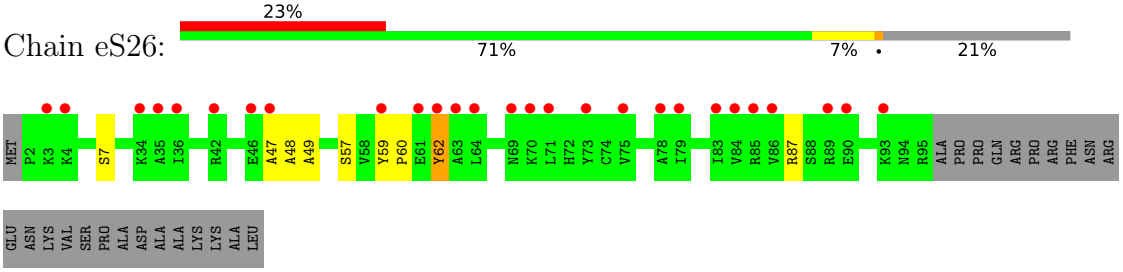
• Molecule 71: 40S ribosomal protein S25

Chain eS25:



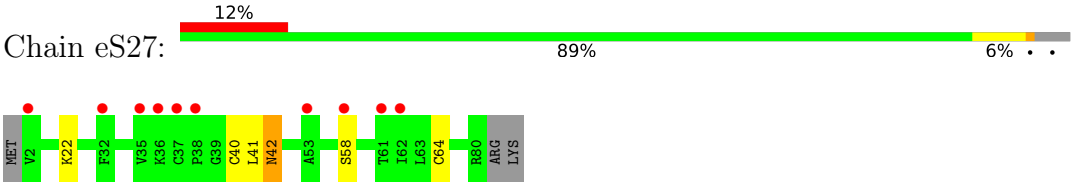
• Molecule 72: 40S ribosomal protein S26

Chain eS26:



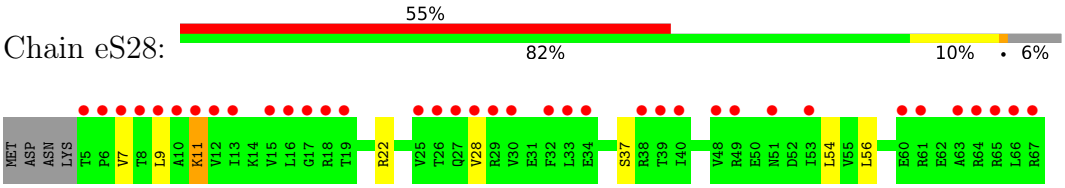
• Molecule 73: 40S ribosomal protein S27-A

Chain eS27:



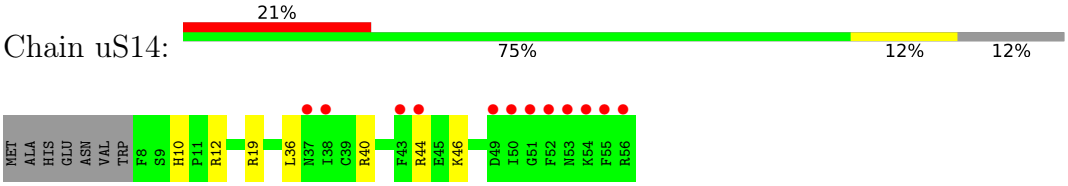
• Molecule 74: eS28

Chain eS28:



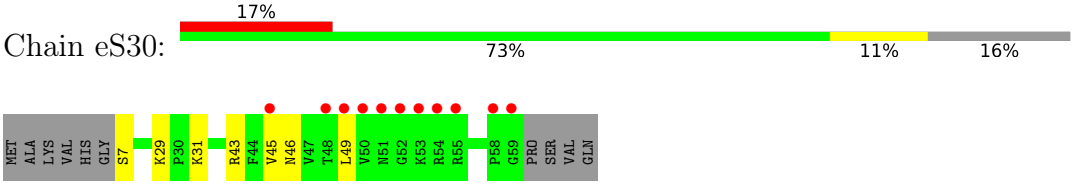
• Molecule 75: HLJ1_G0030400.mRNA.1.CDS.1

Chain uS14:



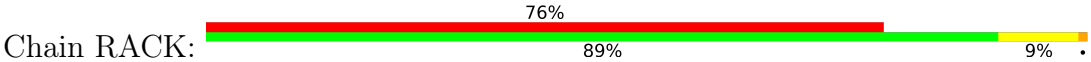
• Molecule 76: 40S ribosomal protein S30

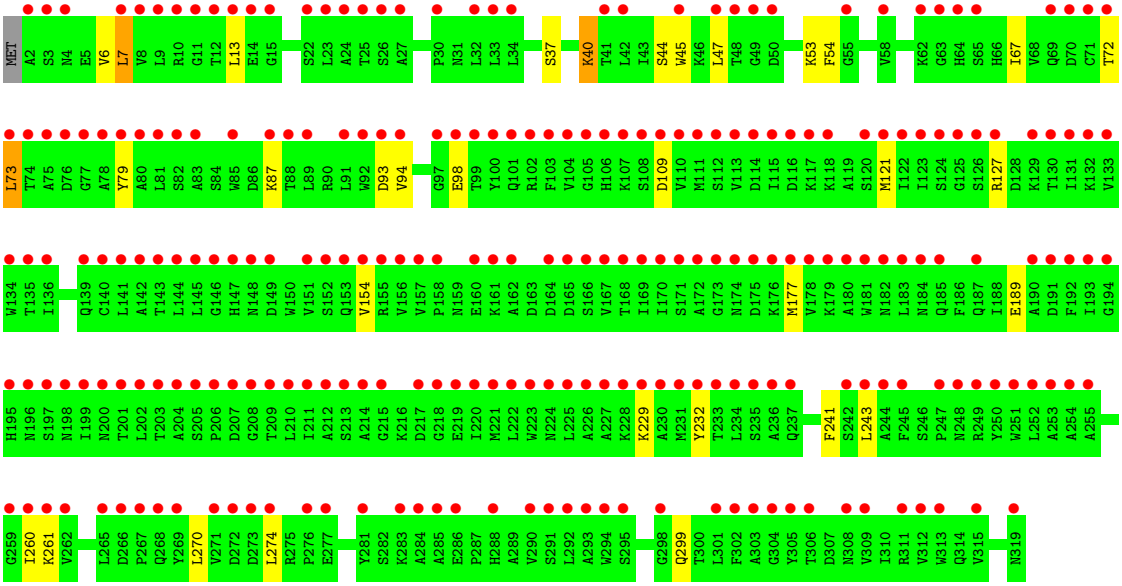
Chain eS30:



• Molecule 77: BJ4_G0022010.mRNA.1.CDS.1

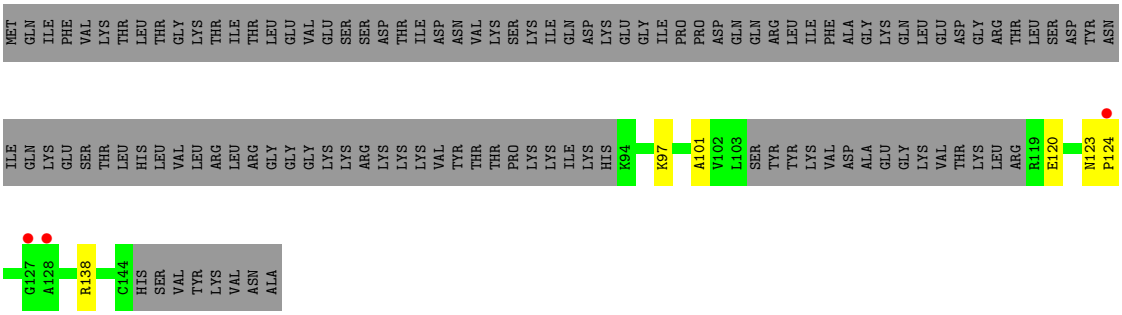
Chain RACK:





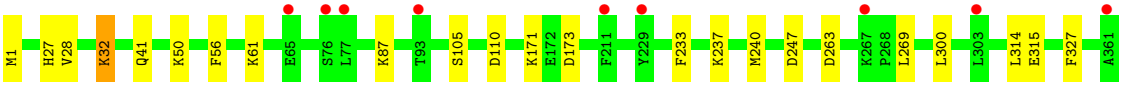
• Molecule 78: Ubiquitin-40S ribosomal protein S31

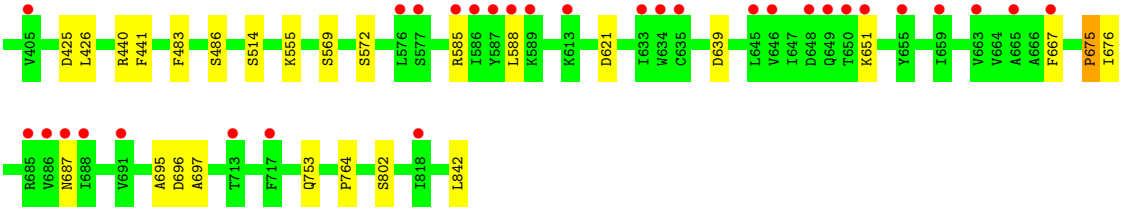
Chain eS31:



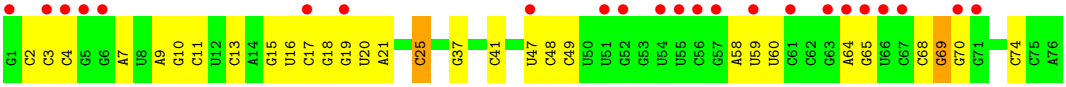
• Molecule 79: Elongation factor 2

Chain eEF2:

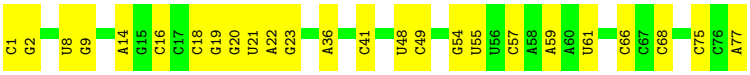




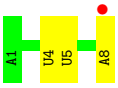
• Molecule 80: PHE tRNA



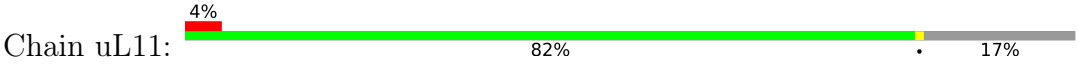
• Molecule 81: FMET tRNA

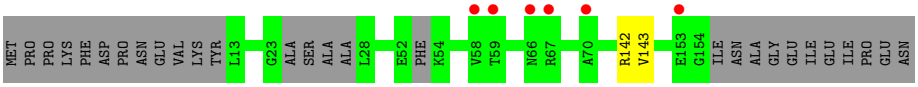


• Molecule 82: MRNA



• Molecule 83: 60S ribosomal protein L12-B





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	233.49Å 299.85Å 513.84Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	149.93 – 3.00 212.57 – 3.00	Depositor EDS
% Data completeness (in resolution range)	100.0 (149.93-3.00) 90.5 (212.57-3.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	0.56 (at 3.01Å)	Xtriage
Refinement program	PHENIX 1.19rc4_4035	Depositor
R, R_{free}	0.228 , 0.284 0.227 , 0.287	Depositor DCC
R_{free} test set	2000 reflections (0.28%)	wwPDB-VP
Wilson B-factor (Å^2)	88.5	Xtriage
Anisotropy	0.039	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	(Not available) , (Not available)	EDS
L-test for twinning[2]	$< \|L\| > = 0.44$, $< L^2 > = 0.26$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.92	EDS
Total number of atoms	207073	wwPDB-VP
Average B, all atoms (Å^2)	120.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.16% 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: DDE, YG, 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	0.29	0/75698	0.95	140/118002 (0.1%)
2	AB	0.27	0/2883	0.91	2/4491 (0.0%)
3	58S	0.25	0/3746	0.86	2/5832 (0.0%)
4	uL10	0.51	0/1421	0.94	5/1921 (0.3%)
5	uL2	0.29	0/1948	0.56	0/2617
6	uL3	0.29	0/3146	0.53	0/4228
7	uL4	0.33	0/2800	0.67	1/3790 (0.0%)
8	uL18	0.38	1/2425 (0.0%)	0.65	4/3271 (0.1%)
9	eL6	0.41	0/1260	0.77	3/1694 (0.2%)
10	uL30	0.31	0/1821	0.64	1/2451 (0.0%)
11	eL8	0.37	0/1836	0.67	1/2481 (0.0%)
12	uL6	0.34	0/1539	0.60	0/2073
13	uL16	0.32	0/1767	0.55	0/2368
14	uL5	0.84	7/1374 (0.5%)	1.10	12/1842 (0.7%)
15	eL13	0.35	0/1568	0.68	3/2106 (0.1%)
16	eL14	0.41	0/1068	0.70	2/1438 (0.1%)
17	eL15	0.30	0/1757	0.54	0/2354
18	uL13	0.45	2/1585 (0.1%)	0.64	3/2128 (0.1%)
19	uL22	0.29	0/1218	0.55	1/1641 (0.1%)
20	eL18	0.32	0/1465	0.60	0/1965
21	eL19	0.35	1/1440 (0.1%)	0.60	1/1921 (0.1%)
22	eL20	0.30	0/1481	0.55	0/1990
23	eL21	0.31	0/1300	0.54	0/1743
24	eL22	0.43	0/786	0.81	1/1065 (0.1%)
25	uL14	0.29	0/978	0.56	0/1316
26	eL24	0.27	0/533	0.46	0/707
27	uL23	0.33	0/974	0.66	1/1314 (0.1%)
28	uL24	0.45	0/1004	0.95	5/1341 (0.4%)
29	eL27	0.37	0/1118	0.62	1/1497 (0.1%)
30	uL15	0.43	0/1204	0.74	3/1612 (0.2%)
31	eL29	0.28	0/473	0.55	0/629
32	eL30	0.35	0/750	0.59	1/1008 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
33	eL31	0.40	1/897 (0.1%)	0.67	1/1205 (0.1%)
34	eL32	0.30	0/1041	0.66	1/1394 (0.1%)
35	eL33	0.31	0/868	0.57	0/1168
36	eL34	0.26	0/871	0.52	0/1164
37	uL29	0.33	0/978	0.64	0/1301
38	eL36	0.34	0/778	0.65	1/1034 (0.1%)
39	eL37	0.29	0/680	0.58	0/901
40	eL38	0.36	0/618	0.78	1/826 (0.1%)
41	eL39	0.30	0/443	0.72	1/588 (0.2%)
42	eL40	0.27	0/423	0.47	0/562
43	eL41	0.23	0/234	0.50	0/300
44	eL42	0.30	0/831	0.63	1/1097 (0.1%)
45	eL43	0.26	0/701	0.54	0/934
46	18S	0.31	2/41291 (0.0%)	0.97	94/64331 (0.1%)
47	uS2	0.36	0/1617	0.68	3/2215 (0.1%)
48	eS1	0.53	0/1714	1.03	6/2308 (0.3%)
49	uS5	0.37	0/1665	0.73	5/2263 (0.2%)
50	uS3	0.55	2/1429 (0.1%)	0.74	1/1913 (0.1%)
51	eS4	0.31	0/2097	0.61	0/2823
52	uS7	0.53	0/1629	0.94	4/2202 (0.2%)
53	eS6	0.46	1/1790 (0.1%)	0.78	2/2393 (0.1%)
54	eS7	0.41	0/1506	0.75	1/2028 (0.0%)
55	eS8	0.32	0/1482	0.63	1/1980 (0.1%)
56	uS4	0.36	0/1519	0.71	3/2035 (0.1%)
57	eS10	0.60	0/309	1.13	4/416 (1.0%)
58	uS17	0.31	0/1172	0.56	1/1580 (0.1%)
59	uS15	0.33	0/1215	0.58	0/1638
60	uS11	0.35	0/901	0.69	0/1217
61	uS19	0.38	0/747	0.71	1/1002 (0.1%)
62	uS9	0.46	0/1088	0.86	3/1459 (0.2%)
63	eS17	0.55	0/971	0.87	2/1303 (0.2%)
64	uS13	0.46	0/1211	0.95	3/1628 (0.2%)
65	eS19	0.51	1/1130 (0.1%)	0.78	4/1517 (0.3%)
66	uS10	0.42	0/250	0.70	1/336 (0.3%)
67	eS21	0.33	0/693	0.65	0/935
68	uS8	0.27	0/1038	0.59	1/1395 (0.1%)
69	uS12	0.28	0/1139	0.55	0/1518
70	eS24	0.34	0/1087	0.57	0/1449
71	eS25	0.74	2/571 (0.4%)	1.09	3/768 (0.4%)
72	eS26	0.37	0/761	0.66	0/1016
73	eS27	0.43	1/600 (0.2%)	0.86	2/813 (0.2%)
74	eS28	0.50	1/499 (0.2%)	0.92	2/670 (0.3%)
75	uS14	0.37	0/412	0.65	0/544

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
76	eS30	0.31	0/433	0.78	1/575 (0.2%)
77	RACK	0.61	1/2489 (0.0%)	1.05	11/3389 (0.3%)
78	eS31	0.48	0/279	0.93	0/369
79	eEF2	0.32	0/6673	0.62	4/9032 (0.0%)
80	ASIT	0.28	0/1784	0.97	3/2780 (0.1%)
81	PSIT	0.42	1/1836 (0.1%)	1.08	3/2859 (0.1%)
82	mRNA	0.17	0/188	0.70	0/290
83	uL11	0.24	0/670	0.48	0/926
All	All	0.34	24/221614 (0.0%)	0.86	368/325225 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
4	uL10	0	4
6	uL3	0	1
10	uL30	0	2
11	eL8	0	2
12	uL6	0	1
14	uL5	0	5
15	eL13	0	1
18	uL13	0	1
20	eL18	0	1
21	eL19	0	1
22	eL20	0	1
25	uL14	0	1
28	uL24	0	1
29	eL27	0	3
30	uL15	0	4
31	eL29	0	1
35	eL33	0	1
38	eL36	0	1
40	eL38	0	1
41	eL39	0	2
44	eL42	0	1
47	uS2	0	2
48	eS1	0	8
49	uS5	0	4
51	eS4	0	2
52	uS7	0	5

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Mol	Chain	#Chirality outliers	#Planarity outliers
53	eS6	0	6
54	eS7	0	5
56	uS4	0	3
57	eS10	0	4
58	uS17	0	1
59	uS15	0	2
60	uS11	0	1
62	uS9	0	1
63	eS17	0	3
64	uS13	0	5
65	eS19	0	3
68	uS8	0	1
69	uS12	0	1
70	eS24	0	2
71	eS25	0	3
72	eS26	0	5
74	eS28	0	2
77	RACK	0	7
78	eS31	0	2
79	eEF2	0	5
83	uL11	0	1
All	All	0	120

All (24) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	uL5	29	ARG	CG-CD	11.86	1.81	1.51
81	PSIT	1	C	OP3-P	-10.54	1.48	1.61
14	uL5	29	ARG	CB-CG	8.89	1.76	1.52
18	uL13	170	LYS	CE-NZ	8.76	1.71	1.49
50	uS3	10	LYS	CD-CE	7.40	1.69	1.51
71	eS25	91	PRO	CB-CG	7.13	1.85	1.50
73	eS27	40	CYS	CB-SG	-6.97	1.70	1.82
14	uL5	63	GLU	CG-CD	-6.77	1.41	1.51
8	uL18	296	GLN	CD-OE1	-6.45	1.09	1.24
14	uL5	29	ARG	CD-NE	6.30	1.57	1.46
46	18S	741	C	N1-C6	6.30	1.41	1.37
18	uL13	170	LYS	CD-CE	-6.09	1.36	1.51
21	eL19	162	ARG	NE-CZ	6.05	1.41	1.33
77	RACK	54	PHE	CE1-CZ	5.92	1.48	1.37
71	eS25	101	TYR	CB-CG	5.88	1.60	1.51
46	18S	779	U	C1'-N1	5.81	1.57	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	uL5	116	TYR	CD2-CE2	-5.78	1.30	1.39
65	eS19	103	LYS	CB-CG	5.68	1.67	1.52
53	eS6	91	GLU	CG-CD	-5.62	1.43	1.51
33	eL31	89	LEU	CG-CD1	5.40	1.71	1.51
14	uL5	116	TYR	CB-CG	-5.36	1.43	1.51
14	uL5	75	LYS	CD-CE	5.21	1.64	1.51
74	eS28	28	VAL	CB-CG2	-5.21	1.42	1.52
50	uS3	6	SER	CA-CB	5.10	1.60	1.52

All (368) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
48	eS1	61	LEU	CB-CG-CD1	20.84	146.43	111.00
46	18S	94	U	C2-N3-C4	15.29	136.18	127.00
18	uL13	170	LYS	CD-CE-NZ	-13.49	80.67	111.70
46	18S	1390	U	O5'-P-OP2	-12.89	94.10	105.70
46	18S	1389	C	C2-N1-C1'	12.35	132.39	118.80
46	18S	1389	C	C6-N1-C1'	-11.48	107.02	120.80
1	25S	593	C	O5'-P-OP2	-11.42	95.42	105.70
62	uS9	39	VAL	C-N-CA	11.29	149.92	121.70
1	25S	185	C	C2-N1-C1'	-11.28	106.39	118.80
1	25S	2777	G	C8-N9-C4	-11.21	101.92	106.40
46	18S	1596	C	O5'-P-OP2	-11.19	95.63	105.70
49	uS5	97	ARG	NE-CZ-NH2	-10.95	114.83	120.30
52	uS7	143	ARG	NE-CZ-NH1	-10.76	114.92	120.30
1	25S	1618	G	N3-C2-N2	-10.66	112.44	119.90
4	uL10	176	LEU	CA-CB-CG	10.55	139.56	115.30
73	eS27	41	LEU	CA-CB-CG	10.30	138.99	115.30
1	25S	2777	G	N7-C8-N9	9.86	118.03	113.10
48	eS1	61	LEU	CA-CB-CG	9.68	137.57	115.30
48	eS1	64	ARG	NE-CZ-NH1	-9.56	115.52	120.30
77	RACK	270	LEU	CB-CG-CD1	-9.55	94.76	111.00
46	18S	186	C	C2-N1-C1'	9.26	128.99	118.80
1	25S	2563	G	O5'-P-OP1	-9.23	97.39	105.70
1	25S	2777	G	N3-C4-N9	-9.23	120.46	126.00
46	18S	186	C	N1-C2-O2	9.11	124.37	118.90
1	25S	185	C	N3-C4-N4	-9.11	111.62	118.00
30	uL15	60	TYR	CB-CG-CD1	9.03	126.42	121.00
1	25S	3278	C	N1-C2-O2	8.97	124.28	118.90
1	25S	2777	G	N9-C4-C5	8.95	108.98	105.40
46	18S	1797	A	O5'-P-OP1	-8.80	97.78	105.70
74	eS28	54	LEU	CA-CB-CG	8.72	135.36	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	18S	453	U	C2-N1-C1'	8.70	128.14	117.70
77	RACK	47	LEU	CA-CB-CG	8.66	135.22	115.30
8	uL18	236	LEU	CB-CG-CD2	-8.58	96.41	111.00
9	eL6	42	LEU	CA-CB-CG	8.55	134.96	115.30
46	18S	691	C	C2-N1-C1'	8.48	128.13	118.80
4	uL10	172	LEU	CA-CB-CG	8.35	134.50	115.30
46	18S	1595	U	C2-N1-C1'	-8.28	107.77	117.70
77	RACK	13	LEU	CA-CB-CG	8.26	134.29	115.30
14	uL5	29	ARG	CB-CG-CD	8.19	132.89	111.60
57	eS10	16	PHE	CB-CG-CD2	-8.17	115.08	120.80
1	25S	1645	U	C2-N1-C1'	8.15	127.48	117.70
57	eS10	15	LEU	CA-CB-CG	8.14	134.01	115.30
1	25S	2094	C	C6-N1-C2	-8.12	117.05	120.30
46	18S	741	C	C2-N1-C1'	-8.12	109.87	118.80
64	uS13	61	LEU	CA-CB-CG	8.06	133.85	115.30
1	25S	185	C	C6-N1-C1'	8.05	130.46	120.80
57	eS10	16	PHE	CB-CG-CD1	7.98	126.38	120.80
21	eL19	165	LYS	CD-CE-NZ	-7.87	93.61	111.70
1	25S	2773	C	C2-N1-C1'	7.86	127.45	118.80
1	25S	3278	C	C2-N1-C1'	7.83	127.41	118.80
71	eS25	101	TYR	CB-CG-CD2	7.83	125.70	121.00
76	eS30	49	LEU	CA-CB-CG	7.78	133.19	115.30
1	25S	2777	G	C5-N7-C8	-7.75	100.42	104.30
46	18S	1596	C	OP1-P-OP2	7.65	131.07	119.60
46	18S	1332	C	C2-N1-C1'	7.63	127.20	118.80
52	uS7	93	LEU	CA-CB-CG	7.61	132.81	115.30
1	25S	2821	C	C2-N1-C1'	7.61	127.17	118.80
1	25S	1413	G	N3-C2-N2	-7.59	114.58	119.90
63	eS17	16	LEU	CA-CB-CG	7.59	132.75	115.30
1	25S	2821	C	N1-C2-O2	7.59	123.45	118.90
14	uL5	116	TYR	CB-CG-CD2	-7.58	116.45	121.00
28	uL24	31	LEU	CA-CB-CG	7.56	132.70	115.30
46	18S	94	U	N1-C2-N3	7.55	119.43	114.90
79	eEF2	300	LEU	CA-CB-CG	7.53	132.61	115.30
30	uL15	60	TYR	CB-CG-CD2	-7.49	116.50	121.00
16	eL14	133	LYS	CD-CE-NZ	-7.48	94.49	111.70
1	25S	2821	C	C6-N1-C2	-7.42	117.33	120.30
14	uL5	172	LEU	CA-CB-CG	7.41	132.34	115.30
46	18S	741	C	C6-N1-C2	7.40	123.26	120.30
3	58S	112	U	O5'-P-OP2	-7.38	99.06	105.70
71	eS25	75	LEU	CA-CB-CG	-7.35	98.39	115.30
1	25S	2094	C	C5-C6-N1	7.34	124.67	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	18S	1548	G	O5'-P-OP1	-7.33	99.11	105.70
1	25S	2821	C	N3-C2-O2	-7.32	116.78	121.90
1	25S	3351	U	O5'-P-OP2	7.27	119.43	110.70
46	18S	1390	U	N1-C2-O2	-7.24	117.73	122.80
46	18S	186	C	N3-C2-O2	-7.23	116.84	121.90
1	25S	3351	U	C5-C6-N1	7.20	126.30	122.70
4	uL10	77	LEU	CA-CB-CG	7.19	131.84	115.30
1	25S	1196	C	C2-N1-C1'	7.16	126.68	118.80
10	uL30	157	ASN	C-N-CA	7.15	139.58	121.70
58	uS17	5	LEU	CA-CB-CG	7.14	131.72	115.30
48	eS1	61	LEU	CD1-CG-CD2	-7.12	89.14	110.50
77	RACK	270	LEU	CA-CB-CG	-7.12	98.93	115.30
2	AB	121	U	O4'-C1'-N1	7.11	113.89	108.20
1	25S	2574	G	N1-C6-O6	7.11	124.17	119.90
1	25S	3278	C	N3-C2-O2	-7.07	116.95	121.90
1	25S	185	C	C6-N1-C2	7.07	123.13	120.30
46	18S	453	U	N1-C2-O2	7.03	127.72	122.80
1	25S	3353	G	C4-N9-C1'	-6.96	117.46	126.50
1	25S	717	C	C2-N1-C1'	6.91	126.39	118.80
1	25S	1283	C	N3-C2-O2	-6.88	117.08	121.90
1	25S	625	G	N1-C6-O6	-6.87	115.78	119.90
56	uS4	118	LEU	CA-CB-CG	6.82	130.99	115.30
1	25S	567	G	N3-C2-N2	-6.81	115.13	119.90
46	18S	691	C	C6-N1-C1'	-6.81	112.62	120.80
1	25S	3288	G	C6-C5-N7	-6.80	126.32	130.40
49	uS5	113	LEU	CA-CB-CG	6.79	130.91	115.30
46	18S	1796	C	C6-N1-C2	6.75	123.00	120.30
14	uL5	28	ASP	CB-CG-OD1	6.74	124.36	118.30
1	25S	625	G	C5-C6-O6	6.73	132.64	128.60
1	25S	895	A	N9-C4-C5	-6.73	103.11	105.80
1	25S	2574	G	C6-C5-N7	-6.72	126.37	130.40
1	25S	1618	G	C6-N1-C2	-6.71	121.07	125.10
63	eS17	23	LYS	C-N-CA	6.65	138.32	121.70
1	25S	1517	G	N3-C2-N2	-6.64	115.25	119.90
28	uL24	126	LEU	CA-CB-CG	6.64	130.58	115.30
46	18S	1596	C	C2-N1-C1'	6.64	126.10	118.80
1	25S	185	C	N3-C4-C5	6.62	124.55	121.90
8	uL18	211	LEU	CA-CB-CG	6.62	130.51	115.30
46	18S	94	U	N3-C4-C5	6.61	118.57	114.60
9	eL6	42	LEU	CB-CG-CD2	-6.60	99.77	111.00
79	eEF2	695	ALA	C-N-CA	6.58	138.16	121.70
47	uS2	17	LEU	CA-CB-CG	6.57	130.40	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	1496	C	C2-N1-C1'	6.56	126.02	118.80
46	18S	186	C	C6-N1-C1'	-6.52	112.98	120.80
46	18S	1389	C	C5-C4-N4	-6.50	115.65	120.20
1	25S	2963	C	N1-C2-O2	-6.50	115.00	118.90
46	18S	1389	C	N1-C2-O2	6.47	122.78	118.90
79	eEF2	314	LEU	CA-CB-CG	6.44	130.12	115.30
55	eS8	119	GLN	C-N-CA	6.42	137.75	121.70
77	RACK	72	THR	CA-CB-CG2	6.41	121.38	112.40
46	18S	1611	A	O4'-C1'-N9	6.41	113.33	108.20
33	eL31	89	LEU	CB-CG-CD1	-6.41	100.11	111.00
46	18S	1389	C	P-O3'-C3'	6.36	127.33	119.70
81	PSIT	41	C	N1-C2-O2	-6.33	115.10	118.90
46	18S	1611	A	N1-C2-N3	6.32	132.46	129.30
1	25S	1645	U	C6-N1-C1'	-6.32	112.35	121.20
46	18S	1096	C	N1-C2-O2	6.32	122.69	118.90
1	25S	494	G	O4'-C1'-N9	6.30	113.24	108.20
1	25S	1618	G	N1-C2-N2	6.30	121.87	116.20
1	25S	2567	C	N3-C2-O2	-6.30	117.49	121.90
1	25S	1618	G	N9-C4-C5	6.30	107.92	105.40
52	uS7	174	LEU	CA-CB-CG	6.29	129.76	115.30
1	25S	2574	G	C5-C6-O6	-6.28	124.83	128.60
80	ASIT	25	C	C2-N1-C1'	6.27	125.70	118.80
1	25S	2571	U	O5'-P-OP1	-6.23	100.09	105.70
1	25S	717	C	N1-C2-O2	6.22	122.63	118.90
1	25S	2773	C	C6-N1-C1'	-6.22	113.33	120.80
46	18S	795	U	N1-C2-O2	6.22	127.15	122.80
1	25S	1579	C	N1-C2-O2	6.21	122.62	118.90
46	18S	543	C	N1-C2-O2	6.19	122.62	118.90
47	uS2	43	ASP	CB-CG-OD1	6.19	123.87	118.30
1	25S	2773	C	N1-C2-O2	6.17	122.60	118.90
46	18S	1412	G	C5-C6-O6	-6.16	124.90	128.60
46	18S	1419	G	N1-C6-O6	-6.15	116.21	119.90
56	uS4	93	LEU	CA-CB-CG	6.15	129.45	115.30
46	18S	1050	G	N3-C2-N2	-6.15	115.59	119.90
14	uL5	55	ARG	N-CA-C	-6.14	94.43	111.00
16	eL14	68	LEU	CA-CB-CG	6.13	129.40	115.30
80	ASIT	25	C	N1-C2-O2	6.12	122.58	118.90
1	25S	3254	G	N3-C4-N9	-6.12	122.33	126.00
46	18S	1220	C	C5-C6-N1	6.10	124.05	121.00
1	25S	3353	G	C6-C5-N7	6.10	134.06	130.40
1	25S	1196	C	N1-C2-O2	6.10	122.56	118.90
14	uL5	84	LEU	CA-CB-CG	6.07	129.26	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	uL23	34	LEU	CA-CB-CG	6.07	129.25	115.30
29	eL27	87	LEU	CA-CB-CG	-6.05	101.38	115.30
46	18S	453	U	C6-N1-C1'	-6.04	112.74	121.20
1	25S	2821	C	O4'-C1'-N1	6.02	113.02	108.20
74	eS28	9	LEU	CA-CB-CG	6.02	129.15	115.30
46	18S	1309	C	C2-N1-C1'	6.02	125.42	118.80
1	25S	1437	C	C2-N1-C1'	6.01	125.42	118.80
11	eL8	109	LEU	O-C-N	-6.01	113.08	122.70
61	uS19	71	GLU	C-N-CA	-6.00	106.70	121.70
46	18S	1595	U	C6-N1-C1'	5.99	129.58	121.20
44	eL42	35	LEU	CA-CB-CG	5.98	129.05	115.30
73	eS27	42	ASN	N-CA-C	-5.98	94.86	111.00
77	RACK	274	LEU	CA-CB-CG	5.97	129.03	115.30
46	18S	453	U	N3-C2-O2	-5.96	118.03	122.20
1	25S	1234	G	N3-C4-N9	5.95	129.57	126.00
15	eL13	170	LEU	CA-CB-CG	5.94	128.96	115.30
77	RACK	270	LEU	CB-CG-CD2	5.91	121.05	111.00
1	25S	75	G	C4-N9-C1'	5.90	134.17	126.50
1	25S	3353	G	C8-N9-C1'	5.89	134.66	127.00
1	25S	3288	G	N3-C4-N9	5.89	129.53	126.00
48	eS1	97	LEU	CB-CG-CD2	-5.88	101.00	111.00
81	PSIT	68	C	N3-C2-O2	-5.87	117.79	121.90
14	uL5	29	ARG	CD-NE-CZ	5.87	131.82	123.60
49	uS5	73	LEU	CB-CG-CD1	-5.87	101.03	111.00
77	RACK	243	LEU	CA-CB-CG	5.86	128.78	115.30
1	25S	1768	U	C2-N1-C1'	5.85	124.72	117.70
46	18S	1595	U	C5-C6-N1	-5.84	119.78	122.70
46	18S	1340	U	C6-N1-C1'	-5.84	113.03	121.20
57	eS10	49	LEU	CB-CG-CD2	-5.83	101.08	111.00
1	25S	835	G	O4'-C1'-N9	5.83	112.86	108.20
15	eL13	51	LEU	CA-CB-CG	5.82	128.69	115.30
52	uS7	198	LEU	CA-CB-CG	5.78	128.60	115.30
46	18S	965	U	C2-N1-C1'	5.76	124.61	117.70
77	RACK	7	LEU	CA-CB-CG	-5.75	102.06	115.30
1	25S	2496	C	C5-C6-N1	5.74	123.87	121.00
46	18S	490	C	N1-C2-O2	5.74	122.34	118.90
28	uL24	126	LEU	CB-CG-CD1	-5.73	101.26	111.00
1	25S	1629	U	N3-C2-O2	-5.72	118.20	122.20
14	uL5	37	LEU	CA-CB-CG	5.72	128.45	115.30
34	eL32	75	LEU	CA-CB-CG	5.72	128.46	115.30
46	18S	1796	C	OP2-P-O3'	5.71	117.77	105.20
46	18S	1498	G	N3-C2-N2	-5.71	115.90	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	2574	G	N3-C4-N9	5.71	129.43	126.00
1	25S	3318	G	N9-C4-C5	-5.70	103.12	105.40
46	18S	795	U	N3-C2-O2	-5.70	118.21	122.20
46	18S	583	C	C2-N1-C1'	5.70	125.07	118.80
1	25S	3254	G	N9-C4-C5	5.70	107.68	105.40
1	25S	2496	C	C6-N1-C2	-5.69	118.02	120.30
1	25S	3144	G	N3-C2-N2	-5.69	115.92	119.90
53	eS6	159	ARG	NE-CZ-NH2	5.68	123.14	120.30
46	18S	77	U	P-O3'-C3'	5.67	126.51	119.70
46	18S	1596	C	O5'-P-OP1	-5.67	100.60	105.70
1	25S	112	U	O4'-C1'-N1	5.66	112.72	108.20
46	18S	186	C	C6-N1-C2	-5.65	118.04	120.30
46	18S	1529	C	N1-C2-O2	5.65	122.29	118.90
1	25S	162	G	C6-C5-N7	5.64	133.79	130.40
49	uS5	97	ARG	NE-CZ-NH1	5.64	123.12	120.30
1	25S	2741	C	N3-C2-O2	-5.64	117.95	121.90
46	18S	548	G	N3-C4-N9	5.64	129.38	126.00
1	25S	3288	G	C4-C5-N7	5.64	113.06	110.80
46	18S	743	U	C2-N1-C1'	5.63	124.46	117.70
46	18S	1649	G	N3-C2-N2	-5.63	115.96	119.90
1	25S	1773	C	N1-C2-O2	5.63	122.28	118.90
46	18S	334	G	O4'-C1'-N9	5.63	112.70	108.20
71	eS25	42	LEU	CA-CB-CG	5.62	128.24	115.30
46	18S	691	C	N1-C2-O2	5.62	122.27	118.90
28	uL24	109	LEU	CA-CB-CG	5.62	128.22	115.30
46	18S	1246	C	C2-N1-C1'	5.61	124.97	118.80
1	25S	2237	C	C5-C4-N4	-5.61	116.27	120.20
1	25S	2574	G	N9-C4-C5	-5.61	103.16	105.40
46	18S	1390	U	N3-C4-C5	5.61	117.97	114.60
1	25S	283	G	C4-N9-C1'	5.57	133.75	126.50
1	25S	193	C	C2-N1-C1'	5.57	124.93	118.80
1	25S	162	G	N3-C4-N9	-5.56	122.66	126.00
1	25S	3214	U	C5-C6-N1	5.56	125.48	122.70
1	25S	1275	C	N1-C2-O2	5.56	122.24	118.90
1	25S	2836	C	C6-N1-C2	-5.53	118.09	120.30
46	18S	1340	U	C6-N1-C2	5.53	124.32	121.00
64	uS13	101	LEU	CA-CB-CG	5.53	128.02	115.30
56	uS4	150	LEU	CA-CB-CG	5.52	128.01	115.30
9	eL6	154	LEU	CA-CB-CG	5.52	128.00	115.30
46	18S	199	G	O4'-C1'-N9	-5.52	103.79	108.20
49	uS5	119	LYS	CA-CB-CG	5.50	125.51	113.40
64	uS13	3	LEU	CA-CB-CG	5.49	127.93	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	18S	77	U	OP2-P-O3'	5.49	117.27	105.20
62	uS9	102	LYS	CD-CE-NZ	5.49	124.32	111.70
46	18S	1491	U	P-O3'-C3'	5.49	126.28	119.70
1	25S	1174	G	N3-C2-N2	-5.49	116.06	119.90
1	25S	1608	C	C2-N1-C1'	5.48	124.83	118.80
28	uL24	104	LEU	CA-CB-CG	5.48	127.91	115.30
2	AB	28	C	N1-C2-O2	-5.47	115.62	118.90
46	18S	543	C	N3-C2-O2	-5.47	118.07	121.90
1	25S	3278	C	C6-N1-C1'	-5.47	114.24	120.80
53	eS6	152	ASP	C-N-CA	5.46	135.35	121.70
1	25S	3288	G	N9-C4-C5	-5.46	103.22	105.40
32	eL30	64	LYS	CD-CE-NZ	-5.45	99.17	111.70
46	18S	137	U	C2-N1-C1'	5.45	124.24	117.70
46	18S	742	U	C6-N1-C2	5.44	124.27	121.00
1	25S	1645	U	C5-C4-O4	-5.44	122.64	125.90
65	eS19	108	LEU	CB-CG-CD2	-5.44	101.76	111.00
46	18S	334	G	C8-N9-C1'	5.42	134.05	127.00
30	uL15	91	LEU	CA-CB-CG	5.42	127.76	115.30
1	25S	496	C	C2-N1-C1'	5.42	124.76	118.80
46	18S	1340	U	N1-C2-N3	-5.41	111.65	114.90
65	eS19	28	LEU	CA-CB-CG	5.41	127.73	115.30
1	25S	1020	G	N9-C1'-C2'	-5.40	106.06	112.00
1	25S	2679	A	O4'-C1'-N9	5.40	112.52	108.20
1	25S	3131	U	C2-N1-C1'	5.39	124.16	117.70
77	RACK	13	LEU	CB-CG-CD2	5.39	120.16	111.00
3	58S	100	U	C2-N1-C1'	5.38	124.15	117.70
46	18S	1389	C	C5-C6-N1	5.37	123.68	121.00
1	25S	137	G	N3-C2-N2	-5.36	116.14	119.90
4	uL10	15	LEU	CA-CB-CG	-5.36	102.98	115.30
1	25S	75	G	C8-N9-C1'	-5.35	120.04	127.00
1	25S	1234	G	C6-C5-N7	-5.35	127.19	130.40
1	25S	110	G	N3-C4-N9	5.34	129.21	126.00
46	18S	1096	C	N3-C2-O2	-5.32	118.17	121.90
46	18S	1438	G	C8-N9-C4	5.32	108.53	106.40
46	18S	1201	G	C4-N9-C1'	-5.32	119.58	126.50
50	uS3	10	LYS	CA-CB-CG	5.32	125.10	113.40
1	25S	2206	G	C5-C6-O6	-5.32	125.41	128.60
1	25S	1196	C	C6-N1-C1'	-5.32	114.42	120.80
14	uL5	75	LYS	CG-CD-CE	5.32	127.85	111.90
24	eL22	35	LYS	CB-CG-CD	5.31	125.41	111.60
8	uL18	236	LEU	CA-CB-CG	5.31	127.51	115.30
62	uS9	89	LEU	CA-CB-CG	5.30	127.50	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
81	PSIT	57	C	N3-C2-O2	-5.30	118.19	121.90
46	18S	1246	C	O4'-C1'-N1	5.30	112.44	108.20
1	25S	1579	C	C2-N1-C1'	5.30	124.63	118.80
80	ASIT	69	G	C4-N9-C1'	-5.30	119.61	126.50
46	18S	1389	C	O4'-C1'-N1	5.29	112.43	108.20
1	25S	283	G	C8-N9-C1'	-5.28	120.13	127.00
1	25S	2094	C	C2-N1-C1'	5.27	124.60	118.80
46	18S	542	A	O4'-C1'-N9	5.26	112.41	108.20
14	uL5	32	ARG	NE-CZ-NH1	5.26	122.93	120.30
46	18S	1796	C	OP1-P-O3'	-5.25	93.64	105.20
66	uS10	68	ARG	NE-CZ-NH2	-5.25	117.67	120.30
1	25S	2574	G	C4-C5-N7	5.25	112.90	110.80
1	25S	3318	G	N1-C6-O6	5.25	123.05	119.90
46	18S	1332	C	C6-N1-C2	-5.24	118.20	120.30
1	25S	1275	C	C2-N1-C1'	5.23	124.55	118.80
65	eS19	27	LYS	CD-CE-NZ	-5.22	99.69	111.70
14	uL5	63	GLU	OE1-CD-OE2	5.22	129.56	123.30
1	25S	3288	G	C4-N9-C1'	5.21	133.27	126.50
1	25S	1517	G	C6-N1-C2	-5.21	121.98	125.10
1	25S	1768	U	C5-C6-N1	5.21	125.30	122.70
19	uL22	41	LEU	CA-CB-CG	5.20	127.27	115.30
8	uL18	195	LEU	CA-CB-CG	-5.20	103.34	115.30
77	RACK	7	LEU	CD1-CG-CD2	5.19	126.07	110.50
1	25S	3318	G	C4-C5-N7	5.19	112.88	110.80
41	eL39	28	ARG	NE-CZ-NH2	-5.19	117.71	120.30
1	25S	2132	C	N3-C2-O2	-5.19	118.27	121.90
1	25S	1413	G	N9-C4-C5	5.18	107.47	105.40
15	eL13	119	TYR	CA-CB-CG	5.18	123.24	113.40
46	18S	334	G	C4-N9-C1'	-5.18	119.77	126.50
4	uL10	197	PHE	CB-CG-CD2	-5.17	117.18	120.80
7	uL4	292	SER	C-N-CA	-5.17	108.76	121.70
46	18S	1332	C	C6-N1-C1'	-5.17	114.59	120.80
46	18S	1273	G	OP2-P-O3'	5.17	116.58	105.20
1	25S	2454	G	O4'-C1'-N9	5.17	112.34	108.20
46	18S	1168	U	C2-N1-C1'	5.17	123.90	117.70
65	eS19	108	LEU	CA-CB-CG	5.17	127.19	115.30
79	eEF2	32	LYS	C-N-CA	-5.17	108.77	121.70
46	18S	1537	C	C2-N1-C1'	5.17	124.48	118.80
1	25S	2726	C	C2-N1-C1'	5.16	124.47	118.80
1	25S	185	C	C5-C4-N4	5.15	123.81	120.20
1	25S	3214	U	C2-N1-C1'	5.15	123.88	117.70
1	25S	3269	U	C2-N1-C1'	5.15	123.88	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	2836	C	N3-C2-O2	-5.14	118.30	121.90
1	25S	283	G	N3-C4-N9	5.14	129.08	126.00
1	25S	3349	C	C2-N3-C4	-5.14	117.33	119.90
38	eL36	22	PRO	C-N-CA	5.13	134.53	121.70
46	18S	1427	A	C2-N3-C4	5.13	113.16	110.60
1	25S	2206	G	N3-C4-N9	5.13	129.08	126.00
46	18S	1687	U	C2-N1-C1'	5.13	123.85	117.70
46	18S	864	U	C2-N1-C1'	5.12	123.84	117.70
46	18S	1438	G	N9-C4-C5	-5.11	103.36	105.40
54	eS7	38	LEU	CA-CB-CG	5.11	127.06	115.30
1	25S	3318	G	C6-C5-N7	-5.10	127.34	130.40
46	18S	610	G	C4-N9-C1'	5.10	133.13	126.50
48	eS1	86	LEU	CA-CB-CG	5.10	127.03	115.30
47	uS2	201	LEU	CA-CB-CG	5.08	126.98	115.30
1	25S	3144	G	C6-N1-C2	-5.08	122.06	125.10
1	25S	2454	G	C4-N9-C1'	-5.06	119.92	126.50
46	18S	1664	C	C2-N1-C1'	5.06	124.36	118.80
1	25S	2237	C	N3-C4-N4	5.06	121.54	118.00
46	18S	490	C	C2-N1-C1'	5.05	124.36	118.80
1	25S	552	G	N3-C4-N9	-5.05	122.97	126.00
1	25S	1413	G	C6-N1-C2	-5.05	122.07	125.10
1	25S	2407	C	C5-C6-N1	5.05	123.53	121.00
1	25S	1827	C	N3-C2-O2	-5.05	118.37	121.90
68	uS8	93	LEU	CA-CB-CG	5.05	126.91	115.30
1	25S	3318	G	C8-N9-C1'	-5.05	120.44	127.00
46	18S	1081	A	P-O3'-C3'	5.05	125.76	119.70
1	25S	185	C	C2-N3-C4	-5.04	117.38	119.90
1	25S	1104	G	N3-C4-N9	-5.04	122.97	126.00
14	uL5	29	ARG	NE-CZ-NH2	5.04	122.82	120.30
46	18S	1201	G	C8-N9-C1'	5.04	133.55	127.00
1	25S	895	A	C4-C5-N7	5.03	113.22	110.70
18	uL13	170	LYS	CG-CD-CE	-5.03	96.80	111.90
1	25S	717	C	C6-N1-C1'	-5.03	114.76	120.80
1	25S	895	A	C6-C5-N7	-5.03	128.78	132.30
18	uL13	102	LEU	CA-CB-CG	5.03	126.87	115.30
46	18S	1390	U	N1-C2-N3	5.03	117.92	114.90
1	25S	3227	A	C8-N9-C4	5.02	107.81	105.80
1	25S	1525	G	C4-N9-C1'	5.01	133.01	126.50
46	18S	741	C	C6-N1-C1'	5.01	126.81	120.80
1	25S	3197	G	N3-C4-N9	-5.01	123.00	126.00
1	25S	3289	G	N3-C2-N2	-5.00	116.40	119.90
1	25S	1562	C	P-O3'-C3'	5.00	125.70	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25S	2366	C	C2-N1-C1'	5.00	124.30	118.80
40	eL38	73	LEU	CA-CB-CG	5.00	126.80	115.30

There are no chirality outliers.

All (120) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
77	RACK	154	VAL	Peptide
77	RACK	260	ILE	Peptide
77	RACK	6	VAL	Peptide
77	RACK	7	LEU	Peptide
77	RACK	73	LEU	Peptide
77	RACK	93	ASP	Peptide
77	RACK	98	GLU	Peptide
79	eEF2	27	HIS	Peptide
79	eEF2	315	GLU	Peptide
79	eEF2	440	ARG	Peptide
79	eEF2	675	PRO	Peptide
79	eEF2	696	ASP	Peptide
15	eL13	4	SER	Peptide
20	eL18	20	LYS	Peptide
21	eL19	129	GLY	Peptide
22	eL20	22	PRO	Peptide
29	eL27	100	THR	Peptide
29	eL27	101	PHE	Peptide
29	eL27	34	LYS	Peptide
31	eL29	24	PRO	Peptide
35	eL33	58	GLU	Peptide
38	eL36	19	SER	Peptide
40	eL38	69	LEU	Peptide
41	eL39	27	ILE	Peptide
41	eL39	30	ARG	Peptide
44	eL42	14	GLY	Peptide
11	eL8	155	ASN	Peptide
11	eL8	158	ASP	Peptide
48	eS1	131	ASP	Peptide
48	eS1	177	GLN	Peptide
48	eS1	212	VAL	Peptide
48	eS1	35	PRO	Peptide
48	eS1	50	LYS	Peptide
48	eS1	53	GLY	Peptide
48	eS1	54	LEU	Peptide

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Mol	Chain	Res	Type	Group
48	eS1	62	LYS	Peptide
57	eS10	52	LYS	Peptide
57	eS10	54	TYR	Peptide
57	eS10	61	TRP	Peptide
57	eS10	67	THR	Peptide
63	eS17	103	ASP	Peptide
63	eS17	112	SER	Peptide
63	eS17	70	SER	Peptide
65	eS19	49	ASP	Peptide
65	eS19	7	ARG	Sidechain
65	eS19	9	VAL	Peptide
70	eS24	5	VAL	Peptide
70	eS24	51	GLU	Peptide
71	eS25	43	ASP	Peptide
71	eS25	70	LYS	Peptide
71	eS25	71	ILE	Peptide
72	eS26	47	ALA	Peptide
72	eS26	57	SER	Peptide
72	eS26	60	PRO	Peptide
72	eS26	62	TYR	Peptide
72	eS26	7	SER	Peptide
74	eS28	11	LYS	Peptide
74	eS28	7	VAL	Peptide
78	eS31	101	ALA	Peptide
78	eS31	97	LYS	Peptide
51	eS4	118	GLU	Peptide
51	eS4	154	ILE	Peptide
53	eS6	147	LEU	Peptide
53	eS6	173	PRO	Peptide
53	eS6	180	THR	Peptide
53	eS6	57	ASP	Peptide
53	eS6	80	ASN	Peptide
53	eS6	86	PRO	Peptide
54	eS7	103	SER	Peptide
54	eS7	106	SER	Peptide
54	eS7	11	GLN	Peptide
54	eS7	27	LEU	Peptide
54	eS7	86	GLN	Peptide
4	uL10	108	PRO	Peptide
4	uL10	123	ALA	Peptide
4	uL10	198	PRO	Peptide
4	uL10	8	LYS	Peptide

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Mol	Chain	Res	Type	Group
83	uL11	142	ARG	Peptide
18	uL13	110	PRO	Peptide
25	uL14	66	LYS	Peptide
30	uL15	115	LYS	Peptide
30	uL15	116	GLY	Peptide
30	uL15	23	GLY	Peptide
30	uL15	91	LEU	Peptide
28	uL24	65	GLY	Peptide
6	uL3	349	LYS	Peptide
10	uL30	189	ILE	Peptide
10	uL30	232	ARG	Peptide
14	uL5	101	ASN	Peptide
14	uL5	108	GLU	Peptide
14	uL5	53	THR	Peptide
14	uL5	90	GLN	Peptide
14	uL5	94	ARG	Peptide
12	uL6	21	LYS	Peptide
60	uS11	41	ARG	Peptide
69	uS12	88	PRO	Peptide
64	uS13	101	LEU	Peptide
64	uS13	13	HIS	Peptide
64	uS13	60	GLU	Peptide
64	uS13	90	ASN	Peptide
64	uS13	91	ASP	Peptide
59	uS15	105	ASN	Peptide
59	uS15	140	LYS	Peptide
58	uS17	6	THR	Peptide
47	uS2	115	PHE	Peptide
47	uS2	32	HIS	Peptide
56	uS4	117	GLY	Peptide
56	uS4	133	HIS	Peptide
56	uS4	92	LYS	Peptide
49	uS5	120	GLU	Peptide
49	uS5	247	ALA	Peptide
49	uS5	49	LYS	Peptide
49	uS5	92	ALA	Peptide
52	uS7	104	ASN	Peptide
52	uS7	125	THR	Peptide
52	uS7	193	THR	Peptide
52	uS7	218	GLU	Peptide
52	uS7	65	ARG	Peptide
68	uS8	54	ASP	Peptide

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Mol	Chain	Res	Type	Group
62	uS9	40	GLU	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	67633	0	33994	1260	0
2	AB	2579	0	1304	41	0
3	58S	3353	0	1695	68	0
4	uL10	1397	0	0	0	0
5	uL2	1914	0	2283	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	1804	0	1877	0	0
12	uL6	1518	0	1587	0	0
13	uL16	1732	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	1195	0	0	0	0
20	eL18	1441	0	0	0	0
21	eL19	1423	0	0	0	0
22	eL20	1445	0	0	0	0
23	eL21	1276	0	0	0	0
24	eL22	770	0	0	0	0
25	uL14	963	0	0	0	0
26	eL24	521	0	0	0	0
27	uL23	959	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	1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
33	eL31	883	0	0	0	0
34	eL32	1020	0	0	0	0
35	eL33	850	0	0	0	0
36	eL34	861	0	0	0	0
37	uL29	969	0	0	0	0
38	eL36	771	0	0	0	0
39	eL37	665	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
44	eL42	819	0	0	0	0
45	eL43	694	0	0	0	0
46	18S	36918	0	18578	736	1
47	uS2	1577	0	1567	0	0
48	eS1	1689	0	1874	0	0
49	uS5	1635	0	1723	0	0
50	uS3	1412	0	1473	0	0
51	eS4	2056	0	2140	0	0
52	uS7	1609	0	1675	0	0
53	eS6	1766	0	1859	0	0
54	eS7	1481	0	1572	0	0
55	eS8	1457	0	1488	0	0
56	uS4	1494	0	1573	0	0
57	eS10	300	0	0	0	0
58	uS17	1146	0	0	0	0
59	uS15	1192	0	0	0	0
60	uS11	891	0	0	0	0
61	uS19	732	0	0	0	0
62	uS9	1069	0	1126	0	0
63	eS17	961	0	0	0	0
64	uS13	1192	0	0	0	0
65	eS19	1112	0	0	0	0
66	uS10	245	0	0	0	0
67	eS21	684	0	0	0	0
68	uS8	1021	0	1060	0	0
69	uS12	1121	0	0	0	0
70	eS24	1073	0	0	0	0
71	eS25	563	0	0	0	0
72	eS26	750	0	0	0	0
73	eS27	590	0	0	0	0
74	eS28	497	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
75	uS14	404	0	0	0	0
76	eS30	427	0	0	0	0
77	RACK	2436	0	0	0	0
78	eS31	276	0	0	0	0
79	eEF2	6569	0	0	0	0
80	ASIT	1636	0	0	0	0
81	PSIT	1644	0	0	0	0
82	mRNA	169	0	0	0	0
83	uL11	673	0	0	0	0
84	18S	122	0	0	0	0
84	25S	324	0	0	0	0
84	58S	7	0	0	0	0
84	AB	5	0	0	0	0
84	ASIT	1	0	0	0	0
84	PSIT	6	0	0	0	0
84	eEF2	6	0	0	0	0
84	eL15	1	0	0	0	0
84	eL18	1	0	0	0	0
84	eL20	1	0	0	0	0
84	eL30	2	0	0	0	0
84	eL31	1	0	0	0	0
84	eL32	1	0	0	0	0
84	eL33	1	0	0	0	0
84	eL40	1	0	0	0	0
84	eL41	1	0	0	0	0
84	eL42	2	0	0	0	0
84	eS1	1	0	0	0	0
84	eS26	1	0	0	0	0
84	eS4	3	0	0	0	0
84	eS6	2	0	0	0	0
84	mRNA	1	0	0	0	0
84	uL14	1	0	0	0	0
84	uL16	1	0	0	0	0
84	uL18	2	0	0	0	0
84	uL2	3	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	uS14	1	0	0	0	0
84	uS15	1	0	0	0	0
84	uS19	1	0	0	0	0
85	eL34	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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	207073	0	89352	2085	1

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 24.

All (2085) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:3321:C:O2	1:25S:3386:G:N2	1.98	0.95
46:18S:1397:U:H3'	46:18S:1398:U:H5"	1.46	0.94
1:25S:1352:A:H4'	1:25S:1353:U:H5'	1.50	0.93
1:25S:547:G:H2'	1:25S:548:G:C8	2.04	0.93
1:25S:3348:G:H1	1:25S:3357:U:H3	1.20	0.90
1:25S:1255:C:H2'	1:25S:1256:G:H8	1.37	0.90
46:18S:1585:U:H3	46:18S:1611:A:H2	1.19	0.90
46:18S:1291:G:H22	46:18S:1324:G:H1	1.19	0.89
1:25S:542:G:N2	1:25S:549:U:O2	2.04	0.89
1:25S:1540:U:O2	1:25S:1557:A:N6	2.04	0.89
46:18S:868:G:H1	46:18S:960:U:H3	1.19	0.88
46:18S:827:C:H42	46:18S:845:G:H1	1.20	0.88
1:25S:599:C:O2	1:25S:604:G:N2	2.05	0.87
1:25S:240:U:H4'	1:25S:241:G:H5'	1.57	0.87
1:25S:1019:G:N2	1:25S:1033:U:O2	2.08	0.86
3:58S:83:C:O2'	3:58S:85:G:N2	2.08	0.86
1:25S:2568:C:O2	1:25S:2573:G:N2	2.09	0.85
1:25S:6:A:N6	3:58S:153:U:O2	2.10	0.85
1:25S:1758:G:O6	1:25S:1767:C:N4	2.10	0.84
1:25S:2776:C:H5'	1:25S:2777:G:C4	2.13	0.84
46:18S:992:A:H2	46:18S:1012:U:H3	1.19	0.84
46:18S:1278:G:H1	46:18S:1430:U:H3	1.26	0.83
46:18S:1497:U:H3'	46:18S:1498:G:H8	1.43	0.83
1:25S:2344:U:H2'	1:25S:2345:A:H8	1.43	0.82
1:25S:3233:C:H2'	1:25S:3234:A:C8	2.14	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:1297:G:N2	46:18S:1300:A:OP2	2.13	0.81
46:18S:1171:A:H2'	46:18S:1172:G:H8	1.46	0.81
46:18S:1511:U:H2'	46:18S:1512:G:C8	2.16	0.80
46:18S:1588:G:H1	46:18S:1608:U:H3	1.30	0.80
1:25S:1255:C:H2'	1:25S:1256:G:C8	2.17	0.80
1:25S:1765:U:H2'	1:25S:1766:G:C8	2.16	0.80
1:25S:1340:G:N2	1:25S:1364:C:O2	2.14	0.80
1:25S:2533:G:H2'	1:25S:2534:G:H8	1.45	0.80
1:25S:783:A:H5"	1:25S:784:A:H5"	1.64	0.79
1:25S:2344:U:H2'	1:25S:2345:A:C8	2.18	0.79
1:25S:3287:U:H2'	1:25S:3288:G:C8	2.17	0.79
1:25S:542:G:H1	1:25S:549:U:H3	1.26	0.79
1:25S:126:U:O4	1:25S:142:C:N4	2.16	0.79
1:25S:894:G:H4'	1:25S:895:A:H5'	1.65	0.79
1:25S:2775:U:O2'	1:25S:2777:G:N1	2.16	0.79
46:18S:1521:G:O2'	46:18S:1523:G:OP2	2.00	0.78
1:25S:1235:U:H4'	1:25S:1236:G:H5'	1.65	0.78
1:25S:160:G:H1	1:25S:261:U:H3	1.28	0.78
46:18S:1280:C:H2'	46:18S:1281:G:H8	1.49	0.78
1:25S:2442:G:H2'	1:25S:2443:A:H8	1.50	0.78
46:18S:1524:A:H2'	46:18S:1525:A:C8	2.19	0.78
1:25S:129:U:H2'	1:25S:130:A:C8	2.20	0.77
46:18S:1280:C:H2'	46:18S:1281:G:C8	2.20	0.77
1:25S:2718:U:H2'	1:25S:2719:U:C6	2.19	0.77
1:25S:686:G:N2	1:25S:694:C:O2	2.11	0.77
1:25S:1758:G:H1	1:25S:1767:C:N4	1.82	0.77
1:25S:2946:A:H5"	1:25S:2947:G:H5'	1.68	0.76
1:25S:1758:G:C6	1:25S:1767:C:N4	2.53	0.76
1:25S:655:C:H2'	1:25S:656:A:H8	1.50	0.76
1:25S:2213:A:H2'	1:25S:2214:A:C8	2.21	0.76
1:25S:1767:C:OP1	1:25S:1767:C:H4'	1.85	0.76
1:25S:1345:G:N2	1:25S:1359:C:O2	2.18	0.75
46:18S:1479:A:H2'	46:18S:1480:G:C8	2.21	0.75
46:18S:647:G:N2	46:18S:687:G:H1	1.85	0.75
46:18S:1692:G:N1	46:18S:1709:C:O2	2.20	0.75
1:25S:2206:G:H3'	1:25S:2207:A:H8	1.52	0.75
46:18S:1579:U:H2'	46:18S:1580:C:C6	2.22	0.75
1:25S:2406:C:H2'	1:25S:2407:C:C6	2.22	0.74
1:25S:1237:G:H22	1:25S:1251:A:H2	1.33	0.74
46:18S:180:A:H2'	46:18S:181:A:H8	1.49	0.74
1:25S:655:C:H2'	1:25S:656:A:C8	2.23	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:1094:U:H3'	1:25S:1095:U:H3'	1.69	0.74
2:AB:21:G:H1	2:AB:58:C:H42	1.34	0.74
1:25S:155:G:H5'	1:25S:156:G:C8	2.23	0.74
3:58S:47:C:H1'	3:58S:61:A:H2'	1.69	0.74
46:18S:407:A:O2'	46:18S:1671:A:N3	2.20	0.74
1:25S:600:G:H2'	1:25S:601:U:H3'	1.70	0.74
1:25S:1596:C:H2'	1:25S:1597:C:C6	2.23	0.74
1:25S:436:A:N1	1:25S:622:A:N6	2.36	0.73
2:AB:32:U:O2	2:AB:34:C:N4	2.21	0.73
46:18S:1446:A:O2'	46:18S:1448:G:N7	2.20	0.73
46:18S:180:A:H2'	46:18S:181:A:C8	2.23	0.73
1:25S:2427:U:H2'	1:25S:2428:U:C6	2.24	0.73
46:18S:1273:G:H4'	46:18S:1274:C:H5'	1.71	0.73
1:25S:1758:G:N1	1:25S:1767:C:N4	2.37	0.73
1:25S:1813:A:H2'	1:25S:1814:A:C8	2.24	0.73
3:58S:142:C:H2'	3:58S:143:U:C6	2.24	0.73
46:18S:906:A:H2'	46:18S:907:A:C8	2.24	0.73
46:18S:1397:U:H3'	46:18S:1398:U:C5'	2.19	0.73
46:18S:1171:A:H2'	46:18S:1172:G:C8	2.23	0.72
46:18S:1479:A:H2'	46:18S:1480:G:H8	1.54	0.72
46:18S:1619:C:H2'	46:18S:1620:C:H6	1.53	0.72
1:25S:224:C:H2'	1:25S:225:C:H6	1.54	0.72
46:18S:826:U:O2	46:18S:846:G:N2	2.21	0.72
1:25S:1567:U:H2'	1:25S:1568:U:H4'	1.70	0.72
46:18S:1290:U:H2'	46:18S:1291:G:C8	2.25	0.72
1:25S:664:U:H2'	1:25S:665:A:C8	2.24	0.72
1:25S:3229:G:H22	1:25S:3258:U:H3	1.38	0.72
46:18S:1157:A:H3'	46:18S:1160:A:H62	1.52	0.72
1:25S:1940:G:H21	1:25S:3362:A:H8	1.38	0.72
46:18S:12:U:H2'	46:18S:13:C:C6	2.24	0.72
46:18S:1537:C:OP2	46:18S:1572:G:N1	2.17	0.72
46:18S:1497:U:H3'	46:18S:1498:G:C8	2.25	0.72
46:18S:1716:C:O2'	46:18S:1717:G:O5'	2.08	0.72
46:18S:273:G:H1	46:18S:283:U:H3	1.35	0.71
46:18S:1488:G:N2	46:18S:1495:C:O2	2.22	0.71
1:25S:196:G:N2	1:25S:199:A:OP2	2.23	0.71
1:25S:1359:C:H2'	1:25S:1360:C:C6	2.25	0.71
1:25S:2442:G:H2'	1:25S:2443:A:C8	2.26	0.71
46:18S:45:U:O2'	46:18S:46:A:H2'	1.91	0.71
46:18S:1434:U:O2'	46:18S:1436:A:OP1	2.06	0.71
46:18S:1181:U:H2'	46:18S:1182:U:O4'	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:2357:A:H2'	1:25S:2358:A:H8	1.56	0.70
46:18S:407:A:H2'	46:18S:408:C:C6	2.26	0.70
46:18S:885:G:H2'	46:18S:886:U:C6	2.26	0.70
46:18S:1488:G:H3'	46:18S:1515:A:H61	1.57	0.70
46:18S:340:U:H2'	46:18S:341:A:C8	2.27	0.70
1:25S:1759:C:N4	1:25S:1767:C:N4	2.40	0.70
1:25S:2830:G:H1	1:25S:2858:U:H3	1.36	0.70
46:18S:110:U:OP1	46:18S:753:A:O2'	2.10	0.70
46:18S:1477:G:H2'	46:18S:1478:G:C8	2.27	0.70
1:25S:358:G:N2	1:25S:361:A:OP2	2.22	0.69
1:25S:2568:C:N3	1:25S:2573:G:N1	2.32	0.69
46:18S:655:G:N2	46:18S:679:U:O4'	2.25	0.69
46:18S:1315:U:OP1	46:18S:1328:G:N2	2.21	0.69
46:18S:1071:U:H2'	46:18S:1072:C:C6	2.27	0.69
1:25S:1661:G:H2'	1:25S:1662:G:C8	2.27	0.69
46:18S:404:G:H2'	46:18S:405:C:C6	2.27	0.69
1:25S:679:U:H2'	1:25S:680:G:C8	2.28	0.69
1:25S:2407:C:H2'	1:25S:2408:U:H6	1.56	0.69
46:18S:655:G:N1	46:18S:679:U:OP2	2.26	0.69
46:18S:1528:U:H2'	46:18S:1529:C:C6	2.28	0.69
1:25S:140:C:H2'	1:25S:141:C:C6	2.27	0.69
1:25S:348:A:N3	1:25S:352:A:O2'	2.26	0.69
46:18S:1291:G:N2	46:18S:1324:G:H22	1.91	0.69
1:25S:1301:A:H4'	1:25S:1302:A:H5"	1.73	0.68
46:18S:1606:C:H2'	46:18S:1607:G:C8	2.28	0.68
46:18S:1409:G:N2	46:18S:1412:G:OP2	2.27	0.68
1:25S:1203:A:H2'	1:25S:1204:A:C8	2.27	0.68
1:25S:1345:G:H2'	1:25S:1346:G:H8	1.59	0.68
46:18S:1297:G:H5'	46:18S:1298:U:OP2	1.93	0.68
1:25S:1765:U:H2'	1:25S:1766:G:H8	1.56	0.68
1:25S:3016:A:H2'	1:25S:3017:A:H8	1.58	0.68
46:18S:495:C:H3'	46:18S:496:G:H4'	1.74	0.68
1:25S:75:G:H3'	1:25S:76:G:C8	2.29	0.68
46:18S:1511:U:H2'	46:18S:1512:G:H8	1.57	0.68
46:18S:1663:G:H1	46:18S:1738:U:H3	1.38	0.68
1:25S:1354:G:N1	1:25S:1358:C:H5'	2.09	0.68
1:25S:1615:C:H2'	1:25S:1616:U:C6	2.28	0.68
1:25S:2442:G:H22	1:25S:2505:U:H3	1.40	0.68
46:18S:1210:C:H2'	46:18S:1211:A:H8	1.58	0.68
1:25S:224:C:H2'	1:25S:225:C:C6	2.28	0.68
1:25S:3231:U:H2'	1:25S:3232:G:C8	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:407:A:H2'	46:18S:408:C:H6	1.57	0.68
1:25S:631:U:H2'	1:25S:632:G:C8	2.29	0.68
1:25S:1354:G:N2	1:25S:1358:C:OP1	2.27	0.68
46:18S:1325:A:H2'	46:18S:1326:A:C8	2.29	0.68
1:25S:1597:C:H2'	1:25S:1598:G:H8	1.59	0.68
46:18S:1515:A:O2'	46:18S:1518:C:N4	2.27	0.67
46:18S:205:U:H2'	46:18S:206:A:H8	1.57	0.67
46:18S:1348:A:H2'	46:18S:1349:G:C8	2.29	0.67
46:18S:61:A:H8	46:18S:269:G:HO2'	1.42	0.67
46:18S:1344:A:N7	46:18S:1377:U:O2'	2.22	0.67
1:25S:158:G:H2'	1:25S:159:A:H8	1.58	0.67
46:18S:1410:A:O2'	46:18S:1411:A:OP1	2.09	0.67
46:18S:1690:G:H1	46:18S:1712:A:H62	1.43	0.67
1:25S:1399:A:N1	3:58S:7:U:O2'	2.24	0.67
1:25S:2941:A:H5"	1:25S:2943:G:H4'	1.75	0.67
1:25S:1021:G:H22	1:25S:1030:A:N6	1.93	0.67
1:25S:2228:A:H2'	1:25S:2229:A:C8	2.30	0.67
1:25S:2742:C:H2'	1:25S:2743:A:H8	1.60	0.67
1:25S:2533:G:H2'	1:25S:2534:G:C8	2.30	0.67
46:18S:1585:U:N3	46:18S:1611:A:H2	1.91	0.67
1:25S:1192:C:N4	1:25S:1301:A:O2'	2.27	0.66
46:18S:1553:G:N2	46:18S:1556:A:OP2	2.28	0.66
1:25S:745:C:H2'	1:25S:746:A:H8	1.59	0.66
1:25S:1646:G:O2'	1:25S:1808:G:N2	2.27	0.66
46:18S:119:A:H1'	46:18S:397:A:C4	2.30	0.66
1:25S:247:C:H2'	1:25S:248:U:O4'	1.95	0.66
1:25S:1354:G:H1	1:25S:1358:C:H5'	1.58	0.66
46:18S:1044:U:H2'	46:18S:1045:C:C6	2.30	0.66
46:18S:58:U:O2'	46:18S:451:A:N3	2.29	0.66
1:25S:2835:U:H2'	1:25S:2836:C:O2	1.97	0.65
46:18S:340:U:H2'	46:18S:341:A:H8	1.60	0.65
1:25S:615:U:H2'	1:25S:616:G:H8	1.62	0.65
1:25S:2093:A:HO2'	1:25S:2094:C:H6	1.45	0.65
1:25S:2708:C:H2'	1:25S:2709:C:C6	2.31	0.65
1:25S:1659:U:H2'	1:25S:1660:C:C6	2.32	0.65
1:25S:2742:C:H2'	1:25S:2743:A:C8	2.31	0.65
1:25S:138:U:H2'	1:25S:139:G:C8	2.32	0.65
1:25S:1744:G:H2'	1:25S:1745:C:C6	2.31	0.65
46:18S:591:A:H2'	46:18S:592:A:C8	2.31	0.65
1:25S:2256:A:H62	46:18S:1645:G:H22	1.45	0.65
1:25S:2406:C:H2'	1:25S:2407:C:H6	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:500:C:H2'	1:25S:501:A:H8	1.61	0.65
1:25S:2160:G:H2'	1:25S:2161:G:H8	1.60	0.65
46:18S:89:G:H21	46:18S:452:A:H5'	1.62	0.65
46:18S:1208:A:N1	46:18S:1455:G:N2	2.42	0.65
46:18S:1672:G:H2'	46:18S:1673:G:C8	2.31	0.65
1:25S:2180:G:H2'	1:25S:2181:C:C6	2.31	0.65
46:18S:1525:A:H2'	46:18S:1526:A:C8	2.33	0.65
46:18S:1166:A:H2'	46:18S:1167:G:O4'	1.98	0.64
46:18S:1213:G:H1	46:18S:1450:U:H3	1.45	0.64
1:25S:952:A:H4'	1:25S:968:G:H22	1.62	0.64
1:25S:3084:C:O2'	1:25S:3332:U:OP1	2.14	0.64
46:18S:491:C:H42	46:18S:497:G:H1	1.43	0.64
46:18S:824:G:N2	46:18S:848:C:O2	2.25	0.64
46:18S:1008:G:H2'	46:18S:1009:U:C6	2.31	0.64
46:18S:1613:U:H2'	46:18S:1614:A:C8	2.32	0.64
1:25S:289:A:H2'	1:25S:290:G:H8	1.63	0.64
46:18S:1277:G:H22	46:18S:1434:U:H3	1.45	0.64
1:25S:3287:U:H2'	1:25S:3288:G:H8	1.60	0.64
46:18S:319:U:H4'	46:18S:323:A:C8	2.32	0.64
46:18S:1220:C:H2'	46:18S:1221:A:C8	2.33	0.64
1:25S:2160:G:H2'	1:25S:2161:G:C8	2.32	0.64
2:AB:3:U:H2'	2:AB:4:U:C6	2.32	0.64
1:25S:1390:A:N6	1:25S:1418:A:O2'	2.31	0.64
2:AB:60:G:H2'	2:AB:61:G:C8	2.32	0.64
46:18S:1536:G:H3'	46:18S:1572:G:H22	1.63	0.64
46:18S:1537:C:H6	46:18S:1538:U:H5	1.45	0.64
46:18S:1773:C:H2'	46:18S:1774:G:H8	1.62	0.64
46:18S:482:U:H2'	46:18S:483:A:H8	1.63	0.64
1:25S:1229:G:H2'	1:25S:1230:G:H8	1.61	0.63
1:25S:1345:G:H2'	1:25S:1346:G:C8	2.33	0.63
1:25S:1232:C:H5	1:25S:1261:G:H2'	1.63	0.63
46:18S:205:U:H2'	46:18S:206:A:C8	2.33	0.63
46:18S:647:G:H21	46:18S:687:G:H22	1.44	0.63
1:25S:2624:G:O2'	1:25S:2626:A:N6	2.32	0.63
1:25S:1822:C:H2'	1:25S:1823:A:H8	1.62	0.63
1:25S:3350:C:N4	1:25S:3352:U:O2	2.32	0.63
1:25S:415:G:H2'	1:25S:416:A:H8	1.64	0.63
46:18S:1266:U:H2'	46:18S:1267:G:C8	2.34	0.63
46:18S:1613:U:H2'	46:18S:1614:A:H8	1.62	0.63
1:25S:631:U:H2'	1:25S:632:G:H8	1.64	0.63
1:25S:2534:G:H2'	1:25S:2535:A:O4'	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:1236:A:H2'	46:18S:1237:G:H8	1.64	0.63
1:25S:549:U:H2'	1:25S:550:A:C8	2.34	0.63
1:25S:1621:A:H2'	1:25S:1622:U:C6	2.34	0.63
1:25S:1666:G:H2'	1:25S:1667:A:C8	2.34	0.63
1:25S:2960:C:H2'	1:25S:2961:G:H8	1.64	0.63
46:18S:82:U:H2'	46:18S:83:G:O4'	1.99	0.63
46:18S:851:U:H2'	46:18S:852:C:C6	2.33	0.63
1:25S:928:C:H2'	1:25S:929:A:C8	2.34	0.62
1:25S:2356:A:H61	1:25S:2983:C:H5	1.47	0.62
1:25S:2545:C:H2'	1:25S:2546:C:C6	2.34	0.62
46:18S:826:U:H3	46:18S:846:G:H1	1.44	0.62
1:25S:1696:A:H2'	1:25S:1697:A:C8	2.34	0.62
46:18S:1278:G:H2'	46:18S:1279:C:O4'	1.98	0.62
1:25S:75:G:H3'	1:25S:76:G:H8	1.64	0.62
46:18S:751:G:H2'	46:18S:752:A:C8	2.33	0.62
1:25S:2707:C:H2'	1:25S:2708:C:C6	2.34	0.62
1:25S:2897:A:H2'	1:25S:2899:C:H5"	1.81	0.62
3:58S:149:A:H2'	3:58S:150:G:C8	2.34	0.62
46:18S:1356:U:H2'	46:18S:1357:A:H8	1.64	0.62
1:25S:819:U:H2'	1:25S:820:A:H8	1.64	0.62
1:25S:1605:A:O2'	1:25S:1607:U:OP2	2.17	0.62
1:25S:1863:G:N2	1:25S:1866:C:OP2	2.29	0.62
1:25S:2426:U:H2'	1:25S:2427:U:C6	2.34	0.62
46:18S:1773:C:H2'	46:18S:1774:G:C8	2.34	0.62
1:25S:978:G:H1'	1:25S:1104:G:N2	2.15	0.62
1:25S:429:U:H2'	1:25S:430:U:H6	1.65	0.62
1:25S:501:A:H2'	1:25S:502:U:C6	2.35	0.62
1:25S:952:A:H4'	1:25S:968:G:N2	2.15	0.62
1:25S:1786:G:H2'	1:25S:1787:A:C8	2.35	0.62
1:25S:3004:C:O2'	1:25S:3005:A:OP1	2.16	0.62
46:18S:280:U:H3'	46:18S:281:G:H5'	1.82	0.62
1:25S:178:U:H2'	1:25S:179:C:C6	2.35	0.62
1:25S:3227:A:H2'	1:25S:3228:C:C6	2.35	0.61
46:18S:61:A:O2'	46:18S:62:A:O4'	2.18	0.61
46:18S:449:C:H42	46:18S:457:G:H1	1.48	0.61
46:18S:1229:G:O2'	46:18S:1255:G:N2	2.33	0.61
46:18S:1366:U:H2'	46:18S:1367:G:O4'	1.99	0.61
1:25S:1538:G:H21	1:25S:1583:A:H62	1.48	0.61
1:25S:1597:C:H2'	1:25S:1598:G:C8	2.35	0.61
1:25S:1566:A:N6	1:25S:1571:A:O2'	2.29	0.61
1:25S:1615:C:H2'	1:25S:1616:U:H6	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:3224:G:H2'	1:25S:3225:C:H6	1.65	0.61
46:18S:384:G:H2'	46:18S:385:A:C8	2.35	0.61
46:18S:887:A:H2'	46:18S:888:U:H6	1.66	0.61
46:18S:1477:G:H1'	46:18S:1531:G:N2	2.15	0.61
1:25S:544:C:O2	1:25S:547:G:N2	2.34	0.61
1:25S:2684:C:H2'	1:25S:2685:C:H6	1.65	0.61
1:25S:3229:G:H2'	1:25S:3230:G:C8	2.35	0.61
46:18S:821:U:H2'	46:18S:822:U:C6	2.36	0.61
1:25S:2198:A:H1'	1:25S:2270:A:H5"	1.82	0.61
1:25S:2960:C:H2'	1:25S:2961:G:C8	2.36	0.61
1:25S:3353:G:H1'	1:25S:3356:G:C8	2.35	0.61
46:18S:1539:G:H5"	46:18S:1542:G:O6	2.01	0.61
1:25S:675:C:O2'	1:25S:679:U:OP1	2.11	0.61
1:25S:2974:U:H2'	1:25S:2975:U:C6	2.36	0.61
1:25S:126:U:H2'	1:25S:127:G:O4'	2.01	0.61
1:25S:2375:G:O2'	1:25S:2377:G:OP2	2.19	0.61
1:25S:2696:A:H2'	1:25S:2697:A:C8	2.35	0.61
46:18S:886:U:C2	46:18S:887:A:C8	2.89	0.61
46:18S:1352:G:H1	46:18S:1373:C:H42	1.49	0.61
46:18S:1697:G:N2	46:18S:1704:U:O2'	2.34	0.61
1:25S:1157:G:O2'	1:25S:1169:A:N3	2.32	0.61
1:25S:2768:U:H2'	1:25S:2769:A:C8	2.36	0.61
46:18S:1175:U:H2'	46:18S:1176:G:C8	2.36	0.61
1:25S:379:C:H2'	1:25S:380:U:C6	2.36	0.61
1:25S:500:C:H2'	1:25S:501:A:C8	2.35	0.61
1:25S:2463:G:H1'	1:25S:2494:A:N1	2.16	0.61
1:25S:2577:C:H2'	1:25S:2578:U:O4'	2.01	0.61
46:18S:404:G:H2'	46:18S:405:C:H6	1.66	0.60
1:25S:1564:U:H2'	1:25S:1565:G:H8	1.64	0.60
1:25S:2506:U:H2'	1:25S:2507:C:C6	2.36	0.60
46:18S:1017:U:H2'	46:18S:1018:U:C6	2.36	0.60
46:18S:1210:C:H2'	46:18S:1211:A:C8	2.34	0.60
1:25S:908:G:H4'	1:25S:909:G:H5"	1.83	0.60
1:25S:1572:U:H3	1:25S:1574:C:H41	1.50	0.60
1:25S:2407:C:H2'	1:25S:2408:U:C6	2.35	0.60
1:25S:525:C:H2'	1:25S:526:C:C6	2.36	0.60
1:25S:966:U:H2'	1:25S:967:A:C8	2.36	0.60
1:25S:2495:C:H2'	1:25S:2496:C:C5	2.36	0.60
46:18S:67:A:N6	46:18S:83:G:O2'	2.34	0.60
1:25S:2719:U:H2'	1:25S:2720:G:H8	1.66	0.60
46:18S:201:G:H8	46:18S:201:G:O5'	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:118:U:O2	1:25S:121:A:H5”	2.00	0.60
1:25S:627:U:H2’	1:25S:628:A:C8	2.36	0.60
1:25S:1666:G:H2’	1:25S:1667:A:H8	1.65	0.60
1:25S:2533:G:H1	1:25S:2546:C:H42	1.48	0.60
1:25S:2669:G:H2’	1:25S:2670:G:C8	2.37	0.60
1:25S:3234:A:N1	1:25S:3254:G:N2	2.50	0.60
2:AB:16:U:H2’	2:AB:17:A:C8	2.37	0.60
46:18S:587:C:H2’	46:18S:588:U:C6	2.36	0.60
46:18S:1187:U:H2’	46:18S:1188:G:C8	2.37	0.60
1:25S:1340:G:H2’	1:25S:1341:U:C6	2.36	0.60
1:25S:2221:G:N2	1:25S:2224:A:OP2	2.22	0.60
1:25S:2723:U:H2’	1:25S:2724:U:C6	2.36	0.60
1:25S:3387:U:H2’	1:25S:3388:C:C6	2.35	0.60
3:58S:36:G:O2’	3:58S:104:A:N1	2.30	0.60
46:18S:137:U:O2	46:18S:140:A:H4’	2.01	0.60
1:25S:411:U:H2’	1:25S:412:G:H8	1.66	0.60
1:25S:945:C:H2’	1:25S:946:U:C6	2.36	0.60
1:25S:1378:U:H2’	1:25S:1379:G:H8	1.65	0.60
1:25S:1733:G:H2’	1:25S:1734:G:H8	1.67	0.60
1:25S:2446:U:H2’	1:25S:2447:A:C8	2.36	0.60
1:25S:2927:C:H2’	1:25S:2928:C:C6	2.37	0.60
2:AB:1:G:H2’	2:AB:2:G:H8	1.67	0.60
46:18S:1044:U:H3	46:18S:1074:G:H1	1.50	0.60
1:25S:2419:A:H2’	1:25S:2420:C:C6	2.37	0.60
46:18S:330:G:H2’	46:18S:331:A:C8	2.37	0.60
46:18S:826:U:H2’	46:18S:827:C:C5	2.37	0.60
46:18S:1087:A:H2’	46:18S:1088:A:C8	2.37	0.60
1:25S:158:G:H2’	1:25S:159:A:C8	2.35	0.60
46:18S:86:A:H2’	46:18S:87:C:H6	1.66	0.60
46:18S:1291:G:H21	46:18S:1324:G:H22	1.49	0.59
1:25S:254:A:H2’	1:25S:255:A:C8	2.37	0.59
1:25S:1219:C:O2’	1:25S:1286:A:N1	2.28	0.59
1:25S:2213:A:H2’	1:25S:2214:A:H8	1.64	0.59
46:18S:1:U:H1’	46:18S:370:A:H5”	1.84	0.59
46:18S:1251:U:O2’	46:18S:1252:C:O5’	2.20	0.59
1:25S:172:G:H3’	1:25S:173:G:H8	1.67	0.59
46:18S:603:U:H2’	46:18S:604:A:C8	2.37	0.59
46:18S:934:C:C4	46:18S:1077:C:H4’	2.37	0.59
46:18S:1453:G:H2’	46:18S:1454:G:H8	1.67	0.59
1:25S:3349:C:H2’	1:25S:3350:C:O4’	2.02	0.59
3:58S:156:U:H2’	3:58S:157:U:C6	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:2778:G:H2'	1:25S:2779:A:H5'	1.84	0.59
1:25S:2961:G:H2'	1:25S:2962:U:C6	2.38	0.59
1:25S:3254:G:H2'	1:25S:3255:U:C6	2.37	0.59
46:18S:103:A:O3'	46:18S:308:C:N4	2.34	0.59
46:18S:1120:U:H2'	46:18S:1121:C:C6	2.36	0.59
46:18S:1240:U:H2'	46:18S:1241:G:H5"	1.84	0.59
1:25S:1560:G:O2'	1:25S:1561:G:O4'	2.13	0.59
1:25S:491:C:H2'	1:25S:492:U:O4'	2.01	0.59
1:25S:1225:A:H2'	1:25S:1226:G:H8	1.68	0.59
1:25S:1472:U:H2'	1:25S:1473:G:H8	1.67	0.59
1:25S:2209:U:H3	1:25S:2212:C:N4	2.00	0.59
46:18S:329:G:H2'	46:18S:330:G:H8	1.66	0.59
46:18S:1475:A:O2'	46:18S:1540:G:OP1	2.20	0.59
1:25S:408:A:N3	1:25S:655:C:O2'	2.30	0.59
1:25S:1340:G:H2'	1:25S:1341:U:H6	1.66	0.59
1:25S:1667:A:H2'	1:25S:1668:G:C8	2.38	0.59
1:25S:3332:U:H2'	1:25S:3333:G:O4'	2.02	0.59
46:18S:1535:U:H1'	46:18S:1536:G:N2	2.18	0.59
1:25S:291:C:H2'	1:25S:292:U:H6	1.68	0.59
1:25S:671:U:H2'	1:25S:672:A:C8	2.38	0.59
1:25S:782:U:H2'	1:25S:783:A:O4'	2.02	0.59
1:25S:2256:A:H62	46:18S:1645:G:N2	2.00	0.59
46:18S:742:U:P	46:18S:743:U:H4'	2.42	0.59
1:25S:1234:G:H2'	1:25S:1235:U:C5	2.37	0.59
1:25S:1551:C:O2'	1:25S:2170:U:O2'	2.19	0.59
1:25S:2426:U:H2'	1:25S:2427:U:H6	1.67	0.59
1:25S:2669:G:H2'	1:25S:2670:G:H8	1.68	0.59
1:25S:2948:C:H2'	1:25S:2949:U:C6	2.38	0.59
1:25S:3155:U:C4	1:25S:3158:G:H1'	2.37	0.59
46:18S:982:U:H2'	46:18S:983:A:C8	2.38	0.59
46:18S:1220:C:H2'	46:18S:1221:A:H8	1.65	0.59
1:25S:184:U:H2'	1:25S:185:C:C6	2.38	0.58
1:25S:1341:U:H2'	1:25S:1342:C:C6	2.38	0.58
1:25S:1411:C:H2'	1:25S:1412:G:H8	1.68	0.58
1:25S:2661:G:H2'	1:25S:2662:G:C8	2.38	0.58
3:58S:80:A:H5"	3:58S:81:U:OP2	2.02	0.58
46:18S:16:G:H2'	46:18S:17:C:C6	2.38	0.58
46:18S:891:A:H2'	46:18S:892:A:C8	2.37	0.58
1:25S:173:G:H22	1:25S:245:U:H3	1.51	0.58
1:25S:291:C:H2'	1:25S:292:U:C6	2.37	0.58
1:25S:3160:U:H3	1:25S:3290:G:H22	1.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:648:G:H22	46:18S:687:G:H1'	1.68	0.58
1:25S:734:C:H2'	1:25S:735:A:O4'	2.03	0.58
1:25S:900:G:H1'	1:25S:1589:A:N6	2.17	0.58
1:25S:2536:A:H2	1:25S:2544:U:H3	1.50	0.58
1:25S:2611:U:H2'	1:25S:2612:U:C6	2.39	0.58
1:25S:2697:A:H2'	1:25S:2698:G:C8	2.38	0.58
1:25S:3295:A:H2'	1:25S:3296:A:C8	2.39	0.58
46:18S:406:U:H2'	46:18S:407:A:H8	1.67	0.58
1:25S:1134:G:O2'	1:25S:2642:A:N3	2.30	0.58
1:25S:3026:G:N2	1:25S:3029:A:OP2	2.36	0.58
1:25S:3163:A:H2'	1:25S:3164:C:C6	2.38	0.58
3:58S:6:U:H2'	3:58S:7:U:C6	2.39	0.58
46:18S:1044:U:O2	46:18S:1074:G:N2	2.34	0.58
1:25S:978:G:O2'	1:25S:980:A:N3	2.26	0.58
2:AB:72:A:O2'	2:AB:73:C:OP1	2.21	0.58
46:18S:108:A:H2'	46:18S:109:G:C8	2.38	0.58
46:18S:1339:C:O2'	46:18S:1341:A:N7	2.37	0.58
46:18S:1594:G:OP2	46:18S:1596:C:N4	2.36	0.58
46:18S:1077:C:H2'	46:18S:1078:C:C6	2.39	0.58
1:25S:848:A:H2'	1:25S:849:C:O4'	2.03	0.58
1:25S:2357:A:H2'	1:25S:2358:A:C8	2.36	0.58
2:AB:26:C:H2'	2:AB:27:A:O4'	2.03	0.58
46:18S:1503:A:H2'	46:18S:1504:G:C8	2.39	0.58
1:25S:1711:C:H2'	1:25S:1712:G:O4'	2.04	0.58
46:18S:145:A:H4'	46:18S:146:U:OP1	2.04	0.58
46:18S:1498:G:C2	46:18S:1499:G:C8	2.92	0.58
46:18S:1660:A:H2'	46:18S:1661:U:C6	2.39	0.58
1:25S:567:G:H2'	1:25S:568:G:C8	2.38	0.58
1:25S:990:U:H3	1:25S:1059:G:H1	1.52	0.58
1:25S:1704:A:H2'	1:25S:1705:U:C6	2.38	0.58
1:25S:2428:U:H2'	1:25S:2429:G:C8	2.39	0.58
1:25S:3229:G:H2'	1:25S:3230:G:H8	1.69	0.58
46:18S:1413:U:O2'	46:18S:1416:G:OP1	2.16	0.58
1:25S:600:G:O2'	1:25S:602:A:N7	2.28	0.57
1:25S:1229:G:H2'	1:25S:1230:G:C8	2.39	0.57
1:25S:2537:U:H2'	1:25S:2538:U:C6	2.39	0.57
1:25S:1910:A:H2'	1:25S:1911:A:C8	2.39	0.57
1:25S:2573:G:H2'	1:25S:2574:G:H8	1.69	0.57
46:18S:946:U:H2'	46:18S:947:U:C6	2.39	0.57
1:25S:59:G:H4'	1:25S:60:A:H4'	1.86	0.57
1:25S:1335:C:H2'	1:25S:1336:U:C6	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:1543:A:H2'	46:18S:1544:U:C6	2.39	0.57
1:25S:1626:U:H2'	1:25S:1627:U:C6	2.39	0.57
1:25S:1700:G:H2'	1:25S:1701:C:C6	2.40	0.57
46:18S:1402:G:H2'	46:18S:1403:C:C6	2.40	0.57
1:25S:187:A:N3	1:25S:208:C:O2'	2.33	0.57
1:25S:1408:G:H2'	1:25S:1409:G:H8	1.69	0.57
1:25S:1604:G:H4'	1:25S:1835:A:H4'	1.86	0.57
46:18S:1539:G:O2'	46:18S:1540:G:H5'	2.05	0.57
46:18S:1710:U:H4'	46:18S:1711:C:H5'	1.87	0.57
1:25S:2450:G:H2'	1:25S:2450:G:N3	2.18	0.57
1:25S:3006:A:H2'	1:25S:3007:U:O4'	2.05	0.57
46:18S:992:A:O2'	46:18S:1785:U:O2	2.19	0.57
46:18S:1489:U:O2'	46:18S:1490:C:OP1	2.21	0.57
1:25S:1792:C:HO2'	1:25S:1794:G:H8	1.51	0.57
46:18S:1175:U:H2'	46:18S:1176:G:H8	1.70	0.57
46:18S:1292:G:H2'	46:18S:1293:U:C6	2.40	0.57
46:18S:1735:U:H2'	46:18S:1736:G:H8	1.70	0.57
1:25S:41:G:N2	1:25S:2803:A:H62	2.03	0.56
1:25S:852:U:H2'	1:25S:853:G:H8	1.70	0.56
1:25S:996:A:N3	2:AB:80:G:O2'	2.36	0.56
1:25S:1563:C:H1'	1:25S:1577:G:H22	1.70	0.56
1:25S:2708:C:H2'	1:25S:2709:C:H6	1.67	0.56
46:18S:206:A:H1'	46:18S:262:U:C2	2.40	0.56
1:25S:250:U:H5"	1:25S:251:G:H2'	1.85	0.56
1:25S:1009:A:H2'	1:25S:1010:G:C8	2.39	0.56
1:25S:1225:A:H2'	1:25S:1226:G:C8	2.40	0.56
1:25S:2971:A:H2'	1:25S:2971:A:N3	2.20	0.56
1:25S:3277:U:O2'	1:25S:3278:C:O4'	2.23	0.56
1:25S:3346:U:H3	1:25S:3359:A:H61	1.51	0.56
3:58S:10:A:H2'	3:58S:11:C:C6	2.40	0.56
46:18S:710:U:H1'	46:18S:730:G:C8	2.40	0.56
1:25S:241:G:O2'	1:25S:242:C:H5'	2.05	0.56
1:25S:245:U:H2'	1:25S:246:U:C6	2.40	0.56
1:25S:665:A:H2'	1:25S:666:A:C8	2.39	0.56
1:25S:1150:A:H3'	1:25S:1151:U:H6	1.71	0.56
1:25S:1347:U:H3	1:25S:1357:G:H1	1.52	0.56
1:25S:1570:U:H3	1:25S:1572:U:H1'	1.69	0.56
1:25S:2745:G:N2	1:25S:2748:A:OP2	2.27	0.56
1:25S:2842:U:O2'	1:25S:2843:U:OP1	2.22	0.56
1:25S:3072:C:H2'	1:25S:3073:A:O4'	2.05	0.56
1:25S:3192:U:H2'	1:25S:3193:C:C6	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:330:G:H2'	46:18S:331:A:H8	1.68	0.56
46:18S:460:A:H3'	46:18S:461:G:H8	1.70	0.56
1:25S:950:G:N2	1:25S:1368:U:OP2	2.29	0.56
46:18S:868:G:N2	46:18S:960:U:O2	2.33	0.56
1:25S:1196:C:H4'	1:25S:1197:A:OP1	2.04	0.56
1:25S:2367:A:H2'	1:25S:2368:A:C8	2.40	0.56
1:25S:2729:U:H2'	1:25S:2730:G:O4'	2.06	0.56
3:58S:62:C:H4'	3:58S:63:G:O5'	2.06	0.56
46:18S:546:U:H2'	46:18S:547:U:C6	2.40	0.56
46:18S:859:A:H3'	46:18S:860:U:H5"	1.88	0.56
46:18S:1142:A:H2'	46:18S:1143:A:C8	2.41	0.56
1:25S:953:G:H2'	1:25S:1117:G:H5"	1.87	0.56
1:25S:2915:U:H5"	1:25S:2916:U:H5'	1.88	0.56
3:58S:68:G:H2'	3:58S:69:U:C6	2.39	0.56
46:18S:1063:U:H3'	46:18S:1064:G:H8	1.70	0.56
46:18S:1689:A:N6	46:18S:1712:A:H61	2.04	0.56
1:25S:144:A:H2'	1:25S:145:G:O4'	2.05	0.56
1:25S:2659:G:H4'	1:25S:2751:G:O2'	2.06	0.56
46:18S:1058:U:H1'	46:18S:1059:U:H2'	1.88	0.56
46:18S:1641:C:O2	46:18S:1782:A:O2'	2.12	0.56
1:25S:1408:G:H2'	1:25S:1409:G:C8	2.41	0.56
1:25S:1553:U:H4'	1:25S:1554:U:H5'	1.88	0.56
1:25S:2655:U:H4'	1:25S:2656:A:O4'	2.06	0.56
1:25S:3016:A:H2'	1:25S:3017:A:C8	2.38	0.56
46:18S:553:G:N2	46:18S:571:G:N7	2.53	0.56
1:25S:671:U:H2'	1:25S:672:A:H8	1.70	0.56
2:AB:16:U:H2'	2:AB:17:A:H8	1.71	0.56
1:25S:728:G:H2'	1:25S:729:C:H6	1.70	0.55
1:25S:1717:U:H3	1:25S:1727:G:H1	1.53	0.55
1:25S:538:G:H3'	1:25S:539:C:H6	1.70	0.55
1:25S:895:A:O2'	1:25S:896:A:OP2	2.20	0.55
1:25S:1176:C:H2'	1:25S:1177:G:N2	2.22	0.55
1:25S:2660:G:OP1	1:25S:2750:U:O2'	2.24	0.55
46:18S:5:U:H2'	46:18S:6:G:H8	1.70	0.55
46:18S:343:C:H2'	46:18S:344:A:H8	1.71	0.55
46:18S:887:A:H2'	46:18S:888:U:C6	2.41	0.55
46:18S:1160:A:H2'	46:18S:1161:C:C6	2.41	0.55
46:18S:1277:G:H2'	46:18S:1278:G:O4'	2.06	0.55
46:18S:1785:U:H2'	46:18S:1786:G:H8	1.72	0.55
1:25S:614:C:H2'	1:25S:615:U:C6	2.42	0.55
1:25S:947:G:H2'	1:25S:948:C:C6	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:2532:U:H2'	1:25S:2533:G:C8	2.41	0.55
1:25S:2671:A:H2'	1:25S:2672:G:O4'	2.07	0.55
1:25S:3004:C:O2'	1:25S:3005:A:H5'	2.06	0.55
1:25S:1348:U:H5"	1:25S:1355:A:N1	2.21	0.55
1:25S:1353:U:O2'	1:25S:1354:G:H5'	2.06	0.55
1:25S:2419:A:H2'	1:25S:2420:C:H6	1.69	0.55
1:25S:2444:C:O2	1:25S:2504:U:O2	2.25	0.55
1:25S:2449:A:H2'	1:25S:2450:G:H8	1.71	0.55
3:58S:142:C:H2'	3:58S:143:U:H6	1.69	0.55
46:18S:416:A:H3'	46:18S:417:A:H8	1.71	0.55
46:18S:481:A:H2'	46:18S:482:U:C6	2.42	0.55
46:18S:1665:U:H3	46:18S:1736:G:H1	1.54	0.55
46:18S:1735:U:H2'	46:18S:1736:G:C8	2.41	0.55
1:25S:728:G:H2'	1:25S:729:C:C6	2.42	0.55
1:25S:1171:G:H1	1:25S:1328:C:H42	1.53	0.55
1:25S:1459:C:H2'	1:25S:1460:A:C8	2.42	0.55
1:25S:2595:A:H3'	1:25S:2596:U:H6	1.71	0.55
46:18S:130:C:N4	46:18S:202:A:OP1	2.32	0.55
1:25S:259:C:H2'	1:25S:260:C:H6	1.71	0.55
1:25S:1317:A:O2'	1:25S:1318:A:H3'	2.07	0.55
46:18S:104:A:H4'	46:18S:105:A:H5"	1.89	0.55
46:18S:532:U:H2'	46:18S:533:U:O4'	2.06	0.55
1:25S:1439:U:H2'	1:25S:1440:G:C8	2.42	0.55
1:25S:1641:U:O2'	1:25S:1642:A:H3'	2.06	0.55
46:18S:899:G:H2'	46:18S:900:A:H8	1.72	0.55
1:25S:290:G:H2'	1:25S:291:C:C6	2.42	0.55
1:25S:293:C:H2'	1:25S:294:U:O4'	2.05	0.55
1:25S:611:A:O2'	1:25S:612:U:H5"	2.07	0.55
1:25S:1802:C:H2'	1:25S:1803:C:C6	2.42	0.55
1:25S:3348:G:N2	1:25S:3357:U:O2	2.36	0.55
46:18S:487:G:C2	46:18S:501:U:O2	2.59	0.55
46:18S:487:G:N2	46:18S:501:U:O2	2.39	0.55
46:18S:1084:A:H2'	46:18S:1085:G:O4'	2.07	0.55
46:18S:1652:C:H2'	46:18S:1653:C:H6	1.71	0.55
1:25S:1659:U:H2'	1:25S:1660:C:H6	1.71	0.55
1:25S:1767:C:H2'	1:25S:1768:U:H6	1.71	0.55
1:25S:3231:U:H2'	1:25S:3232:G:H8	1.70	0.55
1:25S:3321:C:N3	1:25S:3386:G:N1	2.46	0.55
3:58S:139:U:H2'	3:58S:140:G:H8	1.72	0.55
46:18S:1173:C:H2'	46:18S:1174:C:H6	1.71	0.55
1:25S:1911:A:H2	1:25S:2122:G:C8	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:3107:U:H2'	1:25S:3108:G:C8	2.42	0.55
2:AB:48:U:N3	2:AB:49:G:N7	2.55	0.55
1:25S:2561:A:H2'	1:25S:2562:A:H8	1.72	0.54
1:25S:2572:C:H3'	1:25S:2573:G:O4'	2.07	0.54
1:25S:2615:G:H2'	1:25S:2616:C:C6	2.43	0.54
3:58S:78:G:H2'	3:58S:79:A:O4'	2.07	0.54
1:25S:172:G:C2	1:25S:247:C:C2	2.95	0.54
1:25S:378:A:N6	1:25S:391:A:O2'	2.40	0.54
1:25S:1396:C:H2'	1:25S:1397:C:C6	2.42	0.54
1:25S:1447:G:N2	1:25S:2356:A:OP2	2.33	0.54
1:25S:2680:A:H3'	1:25S:2681:U:C5	2.42	0.54
46:18S:209:U:H2'	46:18S:210:A:C8	2.43	0.54
46:18S:706:A:O2'	46:18S:707:A:O4'	2.22	0.54
46:18S:736:C:H42	46:18S:737:A:H62	1.55	0.54
46:18S:940:A:H2'	46:18S:941:A:C8	2.42	0.54
46:18S:1081:A:H5'	46:18S:1082:C:OP1	2.07	0.54
46:18S:1453:G:H2'	46:18S:1454:G:C8	2.43	0.54
1:25S:265:A:H5"	1:25S:266:A:OP2	2.07	0.54
1:25S:429:U:H2'	1:25S:430:U:C6	2.42	0.54
1:25S:1019:G:H2'	1:25S:1020:G:C8	2.42	0.54
1:25S:1516:C:H2'	1:25S:1517:G:H8	1.72	0.54
1:25S:2869:U:O2'	1:25S:2873:U:OP1	2.26	0.54
46:18S:1754:A:H2'	46:18S:1755:A:O4'	2.07	0.54
1:25S:907:G:H2'	1:25S:926:A:H62	1.72	0.54
1:25S:1103:A:N1	1:25S:1363:A:O2'	2.38	0.54
2:AB:9:C:OP2	2:AB:10:C:N4	2.31	0.54
46:18S:209:U:H2'	46:18S:210:A:H8	1.71	0.54
46:18S:1469:A:H2'	46:18S:1470:C:C6	2.42	0.54
1:25S:700:C:H2'	1:25S:701:G:H8	1.72	0.54
1:25S:2418:G:H4'	1:25S:2419:A:OP2	2.08	0.54
1:25S:2881:C:H2'	1:25S:2882:U:C6	2.42	0.54
46:18S:706:A:N6	46:18S:734:A:N7	2.55	0.54
46:18S:1543:A:H2'	46:18S:1544:U:H6	1.72	0.54
1:25S:1733:G:H2'	1:25S:1734:G:C8	2.42	0.54
1:25S:2148:U:H2'	1:25S:2149:A:C8	2.42	0.54
2:AB:4:U:H4'	2:AB:26:C:H4'	1.90	0.54
1:25S:159:A:H2'	1:25S:160:G:C8	2.43	0.54
1:25S:275:U:H2'	1:25S:276:U:C6	2.43	0.54
1:25S:283:G:O6	1:25S:304:G:H1'	2.07	0.54
1:25S:662:U:H2'	1:25S:663:C:C6	2.43	0.54
1:25S:835:G:O2'	1:25S:857:G:N2	2.29	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:2443:A:C6	1:25S:2444:C:C2	2.95	0.54
1:25S:2697:A:H2'	1:25S:2698:G:H8	1.73	0.54
1:25S:2806:U:H2'	1:25S:2807:U:C6	2.43	0.54
46:18S:1349:G:H2'	46:18S:1350:U:C6	2.42	0.54
1:25S:427:C:H2'	1:25S:428:A:C8	2.43	0.54
1:25S:651:G:O2'	1:25S:1435:A:OP1	2.25	0.54
1:25S:1595:U:O2'	1:25S:1596:C:H5"	2.08	0.54
46:18S:15:U:H2'	46:18S:16:G:O4'	2.08	0.54
46:18S:899:G:H2'	46:18S:900:A:C8	2.43	0.54
46:18S:1061:A:H2'	46:18S:1062:A:C8	2.43	0.54
46:18S:1398:U:O4	46:18S:1400:A:N6	2.41	0.54
1:25S:745:C:H2'	1:25S:746:A:C8	2.42	0.54
1:25S:790:U:H2'	1:25S:791:A:C8	2.43	0.54
1:25S:2268:U:H3'	1:25S:2269:U:H5"	1.90	0.54
1:25S:3382:U:OP1	1:25S:3382:U:H2'	2.08	0.54
46:18S:108:A:H61	46:18S:306:U:H3	1.56	0.54
46:18S:1752:U:H2'	46:18S:1753:A:O4'	2.08	0.54
1:25S:146:U:OP1	1:25S:147:U:O2'	2.21	0.54
1:25S:1728:G:H5"	1:25S:1730:G:O4'	2.08	0.54
1:25S:49:A:C4	1:25S:279:U:H4'	2.43	0.53
1:25S:503:C:H2'	1:25S:504:A:C8	2.43	0.53
1:25S:589:A:H1'	1:25S:1337:A:H5"	1.89	0.53
1:25S:1392:G:O2'	1:25S:1417:G:N2	2.34	0.53
1:25S:3343:G:O2'	1:25S:3362:A:N6	2.41	0.53
46:18S:100:A:H61	46:18S:385:A:H1'	1.72	0.53
46:18S:1199:G:N3	46:18S:1199:G:H2'	2.22	0.53
46:18S:1346:A:H4'	46:18S:1347:U:H5'	1.89	0.53
46:18S:1353:U:H2'	46:18S:1354:G:C8	2.44	0.53
46:18S:1528:U:H2'	46:18S:1529:C:C5	2.42	0.53
1:25S:284:A:H5"	1:25S:285:A:O4'	2.08	0.53
46:18S:478:A:N6	46:18S:539:G:H22	2.05	0.53
46:18S:717:C:O2'	46:18S:718:U:OP1	2.22	0.53
46:18S:1609:U:H2'	46:18S:1610:G:O4'	2.07	0.53
46:18S:1753:A:H2'	46:18S:1754:A:C8	2.43	0.53
1:25S:91:G:OP2	1:25S:93:C:N4	2.37	0.53
1:25S:599:C:H2'	1:25S:600:G:C8	2.42	0.53
1:25S:1895:A:O2'	1:25S:3053:G:H4'	2.09	0.53
1:25S:1942:U:HO2'	1:25S:3345:G:HO2'	1.54	0.53
1:25S:2674:A:H2'	1:25S:2675:C:O4'	2.08	0.53
1:25S:2683:U:H2'	1:25S:2684:C:C6	2.44	0.53
46:18S:406:U:H2'	46:18S:407:A:C8	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:1215:C:H2'	46:18S:1216:C:C6	2.43	0.53
46:18S:1619:C:H2'	46:18S:1620:C:C6	2.37	0.53
1:25S:415:G:H2'	1:25S:416:A:C8	2.41	0.53
1:25S:872:U:H2'	1:25S:873:C:C6	2.44	0.53
1:25S:2533:G:O2'	1:25S:2534:G:H5'	2.08	0.53
1:25S:2680:A:H3'	1:25S:2681:U:C6	2.43	0.53
46:18S:906:A:H2'	46:18S:907:A:H8	1.71	0.53
1:25S:1831:U:O2'	3:58S:114:G:OP1	2.18	0.53
46:18S:1646:C:H2'	46:18S:1647:U:C6	2.43	0.53
1:25S:189:G:C6	1:25S:206:G:C6	2.97	0.53
1:25S:1746:U:C2	1:25S:1747:G:C8	2.96	0.53
1:25S:3333:G:N2	1:25S:3369:G:O2'	2.42	0.53
46:18S:731:C:O2'	46:18S:732:G:O4'	2.26	0.53
46:18S:1736:G:H2'	46:18S:1737:G:O4'	2.08	0.53
1:25S:386:A:C5	1:25S:387:A:H1'	2.44	0.53
1:25S:411:U:H2'	1:25S:412:G:C8	2.44	0.53
1:25S:1602:A:H8	1:25S:1602:A:OP1	1.92	0.53
46:18S:329:G:H2'	46:18S:330:G:C8	2.44	0.53
1:25S:1083:G:H2'	1:25S:1084:A:H8	1.73	0.53
1:25S:1552:G:H2'	1:25S:1553:U:C6	2.44	0.53
1:25S:2714:G:H4'	1:25S:2715:A:H5"	1.91	0.53
1:25S:3192:U:H2'	1:25S:3193:C:H6	1.73	0.53
1:25S:3371:G:H2'	1:25S:3372:A:C8	2.44	0.53
46:18S:1242:A:O2'	46:18S:1244:A:OP1	2.23	0.53
46:18S:1673:G:H2'	46:18S:1674:C:H6	1.74	0.53
1:25S:172:G:H3'	1:25S:173:G:C8	2.43	0.53
1:25S:314:U:H2'	1:25S:315:C:C6	2.44	0.53
1:25S:2455:U:H2'	1:25S:2458:A:C2	2.44	0.53
1:25S:3092:C:O2'	1:25S:3094:A:OP2	2.12	0.53
3:58S:68:G:H2'	3:58S:69:U:H6	1.73	0.53
46:18S:1159:C:N4	46:18S:1283:U:OP1	2.42	0.53
46:18S:1513:G:H1'	46:18S:1518:C:O2	2.08	0.53
46:18S:1607:G:H2'	46:18S:1608:U:C6	2.44	0.53
1:25S:94:G:H2'	1:25S:95:A:C8	2.43	0.53
1:25S:394:G:N1	1:25S:397:A:OP2	2.42	0.53
1:25S:852:U:H2'	1:25S:853:G:C8	2.44	0.53
1:25S:1354:G:H2'	1:25S:1357:G:H4'	1.90	0.53
1:25S:1538:G:N2	1:25S:1583:A:H62	2.06	0.53
1:25S:1556:C:H2'	1:25S:2169:G:N1	2.24	0.53
46:18S:170:U:OP1	46:18S:267:U:O2'	2.26	0.53
46:18S:1059:U:O2'	46:18S:1060:U:H5"	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:1797:A:H8	46:18S:1797:A:O5'	1.92	0.53
1:25S:259:C:H2'	1:25S:260:C:C6	2.43	0.52
1:25S:493:G:H2'	1:25S:494:G:H5'	1.91	0.52
1:25S:1616:U:H2'	1:25S:1617:G:H8	1.73	0.52
1:25S:2206:G:H3'	1:25S:2207:A:C8	2.39	0.52
2:AB:112:G:H2'	2:AB:113:C:C6	2.44	0.52
46:18S:304:U:H2'	46:18S:305:C:C6	2.43	0.52
46:18S:980:G:H4'	46:18S:1776:A:H4'	1.91	0.52
46:18S:1294:G:H1	46:18S:1303:U:H3	1.58	0.52
46:18S:1395:G:H1	46:18S:1403:C:H42	1.56	0.52
46:18S:1450:U:H2'	46:18S:1451:C:C6	2.43	0.52
1:25S:352:A:N1	1:25S:365:A:H5"	2.24	0.52
1:25S:1144:U:H1'	1:25S:1145:G:C8	2.44	0.52
1:25S:1182:A:H2'	1:25S:1183:C:H6	1.73	0.52
1:25S:1182:A:H2'	1:25S:1183:C:C6	2.44	0.52
1:25S:1556:C:H2'	1:25S:2169:G:H1	1.74	0.52
1:25S:2689:A:H2'	1:25S:2689:A:N3	2.24	0.52
46:18S:29:U:H2'	46:18S:30:G:C8	2.44	0.52
46:18S:1591:C:H2'	46:18S:1592:A:H8	1.75	0.52
46:18S:1636:C:O2	46:18S:1765:A:N6	2.43	0.52
1:25S:282:G:H2'	1:25S:286:U:O4'	2.10	0.52
2:AB:60:G:H2'	2:AB:61:G:H8	1.74	0.52
46:18S:892:A:H2'	46:18S:893:U:C6	2.44	0.52
46:18S:1435:G:H4'	46:18S:1436:A:H5'	1.90	0.52
46:18S:1716:C:HO2'	46:18S:1717:G:P	2.30	0.52
1:25S:491:C:O2'	1:25S:492:U:OP1	2.20	0.52
1:25S:1034:U:H2'	1:25S:1035:G:C8	2.45	0.52
1:25S:1498:A:H2'	1:25S:1499:C:C6	2.44	0.52
1:25S:1630:U:H5"	1:25S:1813:A:H61	1.74	0.52
1:25S:3034:C:H2'	1:25S:3035:A:H8	1.75	0.52
2:AB:49:G:H4'	2:AB:50:U:O5'	2.10	0.52
46:18S:713:A:H2	46:18S:726:C:H42	1.56	0.52
46:18S:1176:G:O2'	46:18S:1197:C:N4	2.35	0.52
46:18S:1491:U:O2'	46:18S:1492:A:OP2	2.21	0.52
1:25S:2877:G:H2'	1:25S:2878:G:H8	1.74	0.52
3:58S:143:U:H2'	3:58S:144:G:O4'	2.09	0.52
46:18S:138:A:O4'	46:18S:140:A:H5'	2.10	0.52
46:18S:472:U:C2	46:18S:473:A:C8	2.97	0.52
46:18S:525:A:H2'	46:18S:526:A:C8	2.44	0.52
46:18S:1579:U:H2'	46:18S:1580:C:H6	1.70	0.52
46:18S:1706:C:H5"	46:18S:1707:A:OP2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:1725:U:H2'	46:18S:1726:G:O4'	2.09	0.52
1:25S:18:G:H2'	1:25S:19:U:O4'	2.09	0.52
1:25S:1565:G:N1	1:25S:1575:A:N3	2.57	0.52
1:25S:2685:C:H2'	1:25S:2686:A:C8	2.44	0.52
1:25S:307:A:H2'	1:25S:308:A:C8	2.44	0.52
1:25S:648:C:O2	1:25S:2374:C:O2'	2.28	0.52
1:25S:1534:A:H2'	1:25S:1535:A:C8	2.44	0.52
1:25S:2578:U:H2'	1:25S:2579:G:O4'	2.09	0.52
1:25S:2609:A:H2'	1:25S:2610:G:C8	2.44	0.52
1:25S:2948:C:H2'	1:25S:2949:U:H6	1.75	0.52
46:18S:424:C:O2	46:18S:427:C:N4	2.33	0.52
46:18S:482:U:H2'	46:18S:483:A:C8	2.42	0.52
46:18S:844:A:H2'	46:18S:845:G:C8	2.45	0.52
46:18S:954:G:H2'	46:18S:955:A:H8	1.73	0.52
1:25S:340:C:H2'	1:25S:341:G:C8	2.45	0.52
1:25S:531:G:C2'	1:25S:532:A:H5'	2.40	0.52
1:25S:926:A:H2'	1:25S:927:C:C6	2.45	0.52
1:25S:1446:A:H61	1:25S:2356:A:H5"	1.73	0.52
1:25S:1742:U:H2'	1:25S:1743:G:C8	2.45	0.52
1:25S:2312:A:OP1	1:25S:2314:U:H5	1.93	0.52
1:25S:2379:U:H2'	1:25S:2380:U:C6	2.45	0.52
1:25S:2999:U:H2'	1:25S:3000:A:C8	2.45	0.52
1:25S:3153:U:H3'	1:25S:3154:C:H2'	1.92	0.52
1:25S:3385:U:H2'	1:25S:3386:G:C8	2.45	0.52
1:25S:937:G:H5'	1:25S:938:C:C5	2.44	0.52
1:25S:1339:C:H2'	1:25S:1340:G:C8	2.44	0.52
46:18S:871:G:H2'	46:18S:872:G:C8	2.45	0.52
46:18S:1436:A:H2'	46:18S:1437:U:O4'	2.10	0.52
1:25S:183:G:H2'	1:25S:184:U:C6	2.43	0.52
1:25S:548:G:H2'	1:25S:549:U:H6	1.74	0.52
1:25S:700:C:H2'	1:25S:701:G:C8	2.45	0.52
1:25S:907:G:H4'	1:25S:908:G:H5'	1.91	0.52
46:18S:86:A:H2'	46:18S:87:C:C6	2.44	0.52
46:18S:1502:G:N2	46:18S:1504:G:H3'	2.25	0.52
1:25S:622:A:O2'	1:25S:623:U:O4'	2.26	0.51
1:25S:664:U:H2'	1:25S:665:A:H8	1.73	0.51
1:25S:731:U:H2'	1:25S:732:C:C6	2.44	0.51
1:25S:1506:A:H1'	1:25S:1848:G:O6	2.09	0.51
1:25S:1926:C:H5'	1:25S:1927:G:C8	2.45	0.51
1:25S:2903:A:H2'	1:25S:2904:U:O4'	2.10	0.51
46:18S:1475:A:H2'	46:18S:1476:C:H6	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:1697:G:H22	46:18S:1704:U:H1'	1.74	0.51
1:25S:231:G:H2'	1:25S:232:G:C8	2.45	0.51
1:25S:503:C:H2'	1:25S:504:A:H8	1.74	0.51
1:25S:1334:U:H2'	1:25S:1335:C:C6	2.45	0.51
1:25S:2768:U:H2'	1:25S:2769:A:H8	1.74	0.51
1:25S:3063:C:H2'	1:25S:3064:U:H6	1.75	0.51
3:58S:57:C:H4'	3:58S:63:G:N7	2.25	0.51
46:18S:327:U:H2'	46:18S:328:A:H8	1.75	0.51
46:18S:646:C:H2'	46:18S:647:G:O4'	2.10	0.51
1:25S:1222:G:HO2'	1:25S:1285:G:H1	1.56	0.51
1:25S:2282:U:O2	1:25S:2310:U:H4'	2.10	0.51
2:AB:1:G:H2'	2:AB:2:G:C8	2.44	0.51
46:18S:17:C:H2'	46:18S:18:C:C6	2.44	0.51
1:25S:641:C:H2'	1:25S:642:U:O4'	2.09	0.51
1:25S:1359:C:H2'	1:25S:1360:C:H6	1.72	0.51
1:25S:2141:U:H5'	1:25S:2977:G:H4'	1.91	0.51
1:25S:2407:C:C2	1:25S:2408:U:C5	2.98	0.51
1:25S:2430:A:H2'	1:25S:2431:C:C6	2.44	0.51
1:25S:2684:C:H2'	1:25S:2685:C:C6	2.44	0.51
1:25S:3096:C:H2'	1:25S:3097:C:C6	2.46	0.51
3:58S:57:C:H4'	3:58S:63:G:C5	2.45	0.51
46:18S:5:U:H2'	46:18S:6:G:C8	2.44	0.51
46:18S:213:A:H61	46:18S:252:U:H3	1.58	0.51
46:18S:641:G:H2'	46:18S:642:G:O4'	2.10	0.51
46:18S:1398:U:O2'	46:18S:1399:C:H3'	2.10	0.51
1:25S:625:G:H2'	1:25S:626:U:C6	2.46	0.51
1:25S:1759:C:N4	1:25S:1767:C:H42	2.09	0.51
1:25S:2745:G:N2	1:25S:2747:A:H3'	2.26	0.51
1:25S:3159:C:H2'	1:25S:3160:U:C6	2.45	0.51
46:18S:178:U:O2'	46:18S:179:A:O4'	2.24	0.51
46:18S:526:A:H2'	46:18S:527:A:O4'	2.10	0.51
46:18S:1349:G:H2'	46:18S:1350:U:H6	1.76	0.51
1:25S:235:A:H2'	1:25S:236:G:C8	2.46	0.51
1:25S:873:C:H3'	1:25S:874:U:H4'	1.91	0.51
1:25S:1413:G:H2'	1:25S:1414:G:C8	2.46	0.51
1:25S:2877:G:H2'	1:25S:2878:G:C8	2.46	0.51
1:25S:3034:C:C2	1:25S:3035:A:C8	2.98	0.51
1:25S:3384:U:H2'	1:25S:3385:U:O4'	2.10	0.51
46:18S:1334:U:H2'	46:18S:1335:U:C6	2.45	0.51
1:25S:87:U:H2'	1:25S:88:A:H8	1.76	0.51
1:25S:242:C:HO2'	1:25S:243:G:C5'	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:601:U:O2'	1:25S:602:A:OP1	2.27	0.51
1:25S:1120:A:H2'	1:25S:1121:U:C6	2.45	0.51
1:25S:3000:A:H2'	1:25S:3001:C:C6	2.45	0.51
1:25S:3066:U:H2'	1:25S:3067:C:C6	2.46	0.51
1:25S:3331:U:H2'	1:25S:3332:U:C6	2.45	0.51
2:AB:57:G:H3'	2:AB:58:C:H6	1.75	0.51
46:18S:158:U:O2'	46:18S:159:U:H3'	2.11	0.51
46:18S:515:A:H2'	46:18S:516:G:O4'	2.10	0.51
46:18S:1284:C:OP2	46:18S:1623:C:H4'	2.10	0.51
46:18S:603:U:H2'	46:18S:604:A:H8	1.75	0.51
46:18S:1607:G:H2'	46:18S:1608:U:H6	1.76	0.51
46:18S:1787:C:H2'	46:18S:1788:G:C8	2.46	0.51
1:25S:1333:C:C2	1:25S:1334:U:C5	2.99	0.51
1:25S:1780:G:H2'	1:25S:1781:C:C6	2.46	0.51
1:25S:2458:A:H1'	1:25S:2483:G:H1'	1.93	0.51
1:25S:279:U:H2'	1:25S:280:U:C6	2.46	0.51
1:25S:406:G:H1'	3:58S:16:G:N2	2.26	0.51
1:25S:2961:G:H2'	1:25S:2962:U:H6	1.76	0.51
46:18S:275:C:O2'	46:18S:276:C:H5'	2.11	0.51
46:18S:889:U:H2'	46:18S:890:C:C6	2.46	0.51
46:18S:1317:C:O2'	46:18S:1400:A:N3	2.37	0.51
46:18S:1345:A:C8	46:18S:1348:A:N6	2.79	0.51
1:25S:526:C:H2'	1:25S:527:A:H8	1.76	0.50
1:25S:992:A:O2'	1:25S:993:G:H5'	2.12	0.50
1:25S:1039:U:H2'	1:25S:1040:A:C8	2.46	0.50
1:25S:1695:U:O2'	1:25S:1749:A:N1	2.35	0.50
1:25S:3343:G:H21	1:25S:3362:A:H2	1.57	0.50
2:AB:13:A:OP1	2:AB:111:U:H1'	2.11	0.50
46:18S:263:C:H2'	46:18S:264:G:O4'	2.11	0.50
46:18S:647:G:H22	46:18S:687:G:H1	1.58	0.50
46:18S:735:C:O2'	46:18S:736:C:OP2	2.27	0.50
46:18S:1088:A:H4'	46:18S:1143:A:H5'	1.93	0.50
46:18S:1600:A:H2'	46:18S:1600:A:N3	2.26	0.50
1:25S:538:G:H3'	1:25S:539:C:C6	2.46	0.50
1:25S:694:C:H2'	1:25S:695:C:C6	2.46	0.50
1:25S:980:A:H2'	1:25S:981:U:C2	2.46	0.50
1:25S:2268:U:H3'	1:25S:2269:U:C5'	2.41	0.50
46:18S:47:A:H4'	46:18S:48:G:C5'	2.41	0.50
46:18S:1395:G:H22	46:18S:1403:C:N4	2.10	0.50
1:25S:9:U:H2'	1:25S:10:C:C6	2.46	0.50
1:25S:945:C:H2'	1:25S:946:U:H6	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:2256:A:N6	46:18S:1645:G:H22	2.07	0.50
1:25S:3154:C:H5"	1:25S:3157:U:H3	1.76	0.50
46:18S:370:A:H2'	46:18S:371:G:O4'	2.11	0.50
46:18S:779:U:OP2	46:18S:779:U:H6	1.94	0.50
1:25S:179:C:C2	1:25S:180:C:C5	2.99	0.50
1:25S:2158:A:H5'	1:25S:2160:G:O4'	2.11	0.50
46:18S:328:A:H2'	46:18S:329:G:O4'	2.11	0.50
46:18S:607:G:H5'	46:18S:613:G:N2	2.27	0.50
46:18S:827:C:N4	46:18S:845:G:H1	1.99	0.50
1:25S:71:A:C2	1:25S:2778:G:H1'	2.46	0.50
1:25S:177:U:H2'	1:25S:178:U:O4'	2.12	0.50
1:25S:3066:U:H2'	1:25S:3067:C:H6	1.77	0.50
1:25S:3089:C:H2'	1:25S:3090:U:O4'	2.11	0.50
46:18S:747:C:H2'	46:18S:748:U:C6	2.47	0.50
46:18S:1232:U:N3	46:18S:1254:U:O2	2.44	0.50
46:18S:1475:A:H2'	46:18S:1476:C:C6	2.47	0.50
46:18S:1654:G:H22	46:18S:1745:G:H2'	1.77	0.50
1:25S:3:U:H2'	1:25S:4:U:C6	2.47	0.50
1:25S:67:A:N1	1:25S:300:G:O2'	2.39	0.50
1:25S:374:A:O2'	1:25S:376:G:H5'	2.12	0.50
1:25S:1032:C:H3'	1:25S:1033:U:C6	2.47	0.50
1:25S:2890:A:O2'	1:25S:2933:A:N3	2.45	0.50
46:18S:29:U:H2'	46:18S:30:G:H8	1.74	0.50
46:18S:1451:C:H2'	46:18S:1452:U:C6	2.47	0.50
46:18S:1751:C:H2'	46:18S:1752:U:C6	2.46	0.50
1:25S:584:G:H2'	1:25S:585:A:C8	2.47	0.50
1:25S:603:A:C5	1:25S:604:G:H1'	2.47	0.50
1:25S:1750:A:H1'	1:25S:1752:A:N7	2.27	0.50
1:25S:1811:G:H2'	1:25S:1812:G:O4'	2.12	0.50
1:25S:2762:A:C8	1:25S:2800:G:C2	3.00	0.50
3:58S:6:U:H2'	3:58S:7:U:H6	1.77	0.50
46:18S:65:A:H2	46:18S:84:A:H62	1.58	0.50
1:25S:615:U:H2'	1:25S:616:G:C8	2.45	0.50
1:25S:1560:G:H2'	1:25S:1561:G:C8	2.46	0.50
1:25S:1406:A:O2'	1:25S:1407:A:H5'	2.12	0.50
1:25S:1610:G:H2'	1:25S:1611:G:O4'	2.12	0.50
1:25S:2484:A:H2'	1:25S:2484:A:N3	2.27	0.50
1:25S:2569:A:N1	1:25S:2573:G:C6	2.80	0.50
3:58S:69:U:H2'	3:58S:70:G:O4'	2.11	0.50
46:18S:509:G:H2'	46:18S:510:G:C8	2.47	0.50
46:18S:1591:C:H2'	46:18S:1592:A:C8	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:308:A:H1'	1:25S:2222:A:N3	2.27	0.49
1:25S:916:G:H5'	1:25S:917:A:OP1	2.12	0.49
1:25S:1021:G:N3	1:25S:1021:G:H2'	2.27	0.49
1:25S:1308:A:N1	1:25S:2381:G:O2'	2.35	0.49
1:25S:1498:A:H2'	1:25S:1499:C:H6	1.77	0.49
1:25S:2209:U:H4'	1:25S:2210:G:OP1	2.12	0.49
1:25S:2573:G:H2'	1:25S:2574:G:C8	2.46	0.49
1:25S:3000:A:H2'	1:25S:3001:C:H6	1.77	0.49
46:18S:625:C:H2'	46:18S:626:U:C6	2.47	0.49
46:18S:1587:A:H2'	46:18S:1588:G:H8	1.76	0.49
1:25S:59:G:H2'	3:58S:33:A:O2'	2.12	0.49
1:25S:709:A:H8	1:25S:709:A:O5'	1.94	0.49
1:25S:1083:G:C4	1:25S:1084:A:C8	3.00	0.49
1:25S:1339:C:H2'	1:25S:1340:G:H8	1.76	0.49
1:25S:1506:A:H1'	1:25S:1848:G:C6	2.47	0.49
1:25S:2439:A:H2'	1:25S:2440:G:C8	2.46	0.49
1:25S:2585:G:H2'	1:25S:2585:G:N3	2.27	0.49
1:25S:3121:U:H1'	1:25S:3122:A:H5"	1.94	0.49
3:58S:106:C:H5"	3:58S:108:C:OP2	2.12	0.49
46:18S:220:A:N6	46:18S:842:C:C2	2.80	0.49
46:18S:1082:C:HO2'	46:18S:1083:G:P	2.33	0.49
1:25S:871:U:H2'	1:25S:872:U:C6	2.47	0.49
1:25S:1347:U:O2	1:25S:1357:G:N2	2.39	0.49
1:25S:2585:G:H5"	3:58S:151:C:C4	2.46	0.49
1:25S:3200:G:H2'	1:25S:3201:C:C6	2.47	0.49
1:25S:3273:A:H2'	1:25S:3274:A:H5'	1.94	0.49
1:25S:239:G:O2'	1:25S:240:U:H5'	2.11	0.49
1:25S:723:U:H2'	1:25S:724:U:H6	1.77	0.49
1:25S:1616:U:H2'	1:25S:1617:G:C8	2.47	0.49
1:25S:2359:C:H2'	1:25S:2360:C:C6	2.47	0.49
1:25S:2561:A:H2'	1:25S:2562:A:C8	2.46	0.49
1:25S:2955:U:H2'	1:25S:2956:A:O4'	2.11	0.49
1:25S:2966:G:H2'	1:25S:2967:A:C8	2.47	0.49
1:25S:3065:G:H2'	1:25S:3066:U:C6	2.48	0.49
46:18S:17:C:H2'	46:18S:18:C:H6	1.77	0.49
46:18S:494:U:H2'	46:18S:496:G:H21	1.76	0.49
46:18S:614:C:C2	46:18S:615:A:C8	3.00	0.49
46:18S:680:U:H3'	46:18S:681:U:C5	2.48	0.49
46:18S:790:U:H2'	46:18S:791:A:C8	2.48	0.49
46:18S:1013:A:H2'	46:18S:1014:G:O4'	2.12	0.49
46:18S:1266:U:H2'	46:18S:1267:G:N7	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:1587:A:H2'	46:18S:1588:G:C8	2.47	0.49
46:18S:1592:A:H2'	46:18S:1593:A:C8	2.47	0.49
46:18S:1732:A:H2'	46:18S:1733:C:H6	1.77	0.49
1:25S:552:G:H2'	1:25S:553:U:C6	2.47	0.49
1:25S:591:G:N2	1:25S:612:U:OP1	2.45	0.49
1:25S:964:G:H2'	1:25S:965:A:C8	2.48	0.49
1:25S:1714:A:C2	1:25S:1731:A:C4	3.01	0.49
1:25S:1782:U:H2'	1:25S:1783:U:O4'	2.12	0.49
1:25S:3164:C:H2'	1:25S:3165:A:C8	2.48	0.49
2:AB:23:A:H2'	2:AB:24:A:C8	2.48	0.49
46:18S:393:C:H2'	46:18S:394:C:H6	1.76	0.49
46:18S:1351:G:H1	46:18S:1375:A:H1'	1.78	0.49
46:18S:1429:G:H2'	46:18S:1430:U:C6	2.47	0.49
1:25S:1120:A:H2'	1:25S:1121:U:H6	1.78	0.49
1:25S:2999:U:H2'	1:25S:3000:A:H8	1.76	0.49
3:58S:106:C:H4'	3:58S:107:G:H5"	1.93	0.49
46:18S:119:A:H1'	46:18S:397:A:C5	2.47	0.49
46:18S:327:U:H2'	46:18S:328:A:C8	2.47	0.49
46:18S:983:A:H2'	46:18S:984:G:H8	1.77	0.49
46:18S:1221:A:C6	46:18S:1263:G:N2	2.80	0.49
46:18S:1471:A:C2	46:18S:1540:G:H4'	2.48	0.49
1:25S:143:G:H2'	1:25S:144:A:C8	2.48	0.49
1:25S:641:C:H42	1:25S:645:A:H8	1.60	0.49
1:25S:1103:A:OP2	1:25S:1103:A:H4'	2.12	0.49
1:25S:1701:C:H2'	1:25S:1702:U:O4'	2.13	0.49
2:AB:41:G:H1'	2:AB:44:C:N4	2.28	0.49
1:25S:2416:U:H2'	1:25S:2417:U:C6	2.48	0.49
46:18S:206:A:H1'	46:18S:262:U:O2	2.12	0.49
46:18S:644:C:H2'	46:18S:645:C:C6	2.47	0.49
46:18S:754:A:H5"	46:18S:755:A:H5'	1.95	0.49
46:18S:1077:C:H2'	46:18S:1078:C:H6	1.76	0.49
1:25S:536:U:H2'	1:25S:537:A:C8	2.47	0.49
1:25S:638:C:H2'	1:25S:639:G:C8	2.48	0.49
1:25S:735:A:H2'	1:25S:736:A:C8	2.48	0.49
1:25S:1019:G:H2'	1:25S:1020:G:H8	1.78	0.49
1:25S:1203:A:N6	1:25S:1300:G:H2'	2.28	0.49
1:25S:1472:U:H2'	1:25S:1473:G:C8	2.48	0.49
1:25S:1637:A:N3	1:25S:1709:C:O2'	2.46	0.49
1:25S:2495:C:H2'	1:25S:2496:C:C6	2.47	0.49
1:25S:2601:A:H2'	1:25S:2602:G:C8	2.48	0.49
1:25S:3311:C:H2'	1:25S:3312:U:O4'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:41:G:H1'	2:AB:44:C:H42	1.77	0.49
3:58S:126:A:OP2	3:58S:126:A:H8	1.94	0.49
46:18S:30:G:H2'	46:18S:31:C:C6	2.48	0.49
46:18S:116:U:H1'	46:18S:334:G:N3	2.28	0.49
46:18S:712:G:O6	46:18S:727:U:O2'	2.22	0.49
46:18S:748:U:H2'	46:18S:749:U:H6	1.78	0.49
46:18S:1292:G:H2'	46:18S:1293:U:H6	1.78	0.49
46:18S:1654:G:N2	46:18S:1745:G:H2'	2.27	0.49
1:25S:756:U:H2'	1:25S:757:C:C6	2.48	0.49
1:25S:1566:A:H2	1:25S:1572:U:C4	2.31	0.49
1:25S:1572:U:H2'	1:25S:1573:G:H5"	1.94	0.49
1:25S:1906:G:H1'	1:25S:1908:A:N6	2.28	0.49
1:25S:2093:A:O2'	1:25S:2094:C:O4'	2.29	0.49
1:25S:2571:U:H3'	1:25S:2572:C:H6	1.78	0.49
46:18S:181:A:H2'	46:18S:182:A:H5'	1.94	0.49
46:18S:1787:C:H2'	46:18S:1788:G:H8	1.77	0.49
1:25S:499:G:H2'	1:25S:500:C:C6	2.48	0.48
1:25S:1249:G:H2'	1:25S:1250:G:H8	1.78	0.48
1:25S:1497:C:H2'	1:25S:1498:A:H8	1.77	0.48
1:25S:1680:G:H2'	1:25S:1681:U:C6	2.48	0.48
1:25S:2254:U:H2'	1:25S:2261:G:N2	2.28	0.48
1:25S:2808:A:O2'	1:25S:2969:A:OP1	2.25	0.48
1:25S:2811:A:H2'	1:25S:2812:C:H6	1.78	0.48
1:25S:2947:G:OP1	1:25S:2982:A:N6	2.37	0.48
1:25S:3132:C:H2'	1:25S:3133:C:C6	2.47	0.48
46:18S:1537:C:H6	46:18S:1538:U:C5	2.29	0.48
1:25S:1718:G:H2'	1:25S:1719:G:C8	2.48	0.48
1:25S:2130:G:H1'	1:25S:2144:A:H5'	1.94	0.48
1:25S:2369:G:H2'	1:25S:2370:G:C8	2.48	0.48
1:25S:2536:A:H2'	1:25S:2537:U:O4'	2.13	0.48
1:25S:3094:A:H2'	1:25S:3095:U:C6	2.48	0.48
46:18S:47:A:H4'	46:18S:48:G:H5"	1.95	0.48
46:18S:77:U:H4'	46:18S:78:A:H5"	1.94	0.48
46:18S:704:C:H41	46:18S:732:G:H8	1.59	0.48
46:18S:948:G:H2'	46:18S:949:C:C6	2.48	0.48
1:25S:497:C:H2'	1:25S:498:A:H8	1.77	0.48
1:25S:525:C:H2'	1:25S:526:C:H6	1.77	0.48
1:25S:733:G:N2	1:25S:736:A:OP2	2.45	0.48
1:25S:955:U:H2'	1:25S:956:U:C6	2.48	0.48
1:25S:1390:A:H5'	1:25S:1390:A:N3	2.28	0.48
1:25S:1659:U:H3	1:25S:1790:G:H1	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:2576:G:H2'	1:25S:2577:C:C6	2.48	0.48
1:25S:3278:C:H5"	1:25S:3279:A:N7	2.28	0.48
3:58S:139:U:H2'	3:58S:140:G:C8	2.49	0.48
46:18S:116:U:H2'	46:18S:117:U:C6	2.48	0.48
46:18S:592:A:O2'	46:18S:596:C:OP1	2.27	0.48
46:18S:700:C:N4	46:18S:733:A:N1	2.55	0.48
46:18S:978:A:H2'	46:18S:979:A:O4'	2.13	0.48
46:18S:1026:A:N7	46:18S:1772:C:O2'	2.45	0.48
46:18S:1187:U:H2'	46:18S:1188:G:H8	1.75	0.48
46:18S:1597:A:H8	46:18S:1597:A:OP1	1.96	0.48
46:18S:1707:A:O2'	46:18S:1708:U:O4'	2.28	0.48
1:25S:1047:A:H2'	1:25S:1048:A:C8	2.48	0.48
1:25S:1087:G:H2'	1:25S:1088:U:H6	1.78	0.48
1:25S:1203:A:H61	1:25S:1300:G:H2'	1.78	0.48
1:25S:1545:A:H2	1:25S:1548:C:OP2	1.96	0.48
1:25S:2615:G:H2'	1:25S:2616:C:H6	1.79	0.48
46:18S:982:U:H2'	46:18S:983:A:H8	1.78	0.48
1:25S:179:C:H2'	1:25S:180:C:H6	1.79	0.48
1:25S:623:U:H2'	1:25S:624:G:C8	2.49	0.48
1:25S:707:U:OP1	1:25S:780:A:O2'	2.25	0.48
1:25S:1362:G:H2'	1:25S:1363:A:C8	2.48	0.48
1:25S:1940:G:N2	1:25S:3362:A:H8	2.07	0.48
46:18S:1160:A:H2'	46:18S:1161:C:H6	1.78	0.48
46:18S:1429:G:H2'	46:18S:1430:U:H6	1.78	0.48
1:25S:67:A:N6	1:25S:271:C:O2'	2.46	0.48
1:25S:1072:G:H2'	1:25S:1073:U:C6	2.49	0.48
1:25S:1460:A:H2'	1:25S:1461:A:H8	1.78	0.48
1:25S:1760:A:H2'	1:25S:1761:C:C6	2.48	0.48
1:25S:3318:G:O2'	1:25S:3319:U:O5'	2.28	0.48
3:58S:39:G:H1'	3:58S:104:A:N6	2.29	0.48
46:18S:1225:U:O2	46:18S:1230:A:O2'	2.27	0.48
46:18S:1254:U:O5'	46:18S:1254:U:H6	1.97	0.48
46:18S:1673:G:H22	46:18S:1728:A:H2	1.61	0.48
1:25S:109:A:N3	1:25S:110:G:H1'	2.28	0.48
1:25S:1652:G:H2'	1:25S:1653:G:H8	1.79	0.48
1:25S:2115:G:C2	1:25S:2119:A:C2	3.02	0.48
1:25S:2149:A:N1	1:25S:2188:A:H5'	2.28	0.48
1:25S:2613:U:O2'	1:25S:2805:G:OP2	2.27	0.48
1:25S:3041:U:H2'	1:25S:3042:U:H6	1.77	0.48
46:18S:201:G:H2'	46:18S:202:A:H8	1.79	0.48
46:18S:320:U:C5	46:18S:321:C:H2'	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:496:G:N2	46:18S:497:G:N7	2.61	0.48
46:18S:790:U:H2'	46:18S:791:A:H8	1.78	0.48
1:25S:800:G:C2	1:25S:933:A:N6	2.82	0.48
1:25S:1144:U:O4'	1:25S:1160:C:N4	2.47	0.48
1:25S:1150:A:H3'	1:25S:1151:U:C6	2.47	0.48
1:25S:1232:C:C5	1:25S:1261:G:H2'	2.48	0.48
1:25S:1247:U:H2'	1:25S:1268:G:O6	2.13	0.48
1:25S:1503:A:C4	1:25S:1504:A:C8	3.01	0.48
1:25S:2656:A:O2'	1:25S:2657:A:H3'	2.14	0.48
1:25S:2667:A:O2'	1:25S:2691:A:OP1	2.23	0.48
3:58S:7:U:H2'	3:58S:8:C:C6	2.49	0.48
46:18S:1001:A:H2'	46:18S:1002:G:C8	2.48	0.48
1:25S:709:A:H2'	1:25S:710:A:O4'	2.13	0.48
1:25S:1101:G:H2'	1:25S:1102:A:C8	2.48	0.48
1:25S:1709:C:H2'	1:25S:1710:C:H6	1.78	0.48
46:18S:472:U:H2'	46:18S:473:A:H8	1.78	0.48
46:18S:870:C:H2'	46:18S:871:G:C8	2.49	0.48
46:18S:1157:A:H2'	46:18S:1160:A:N7	2.29	0.48
46:18S:1360:A:H2'	46:18S:1361:U:H4'	1.96	0.48
1:25S:542:G:C2	1:25S:549:U:O2	2.66	0.48
1:25S:637:C:C2	1:25S:638:C:C5	3.02	0.48
1:25S:1349:G:H2'	1:25S:1349:G:N3	2.26	0.48
1:25S:1389:G:O2'	1:25S:1418:A:N1	2.40	0.48
1:25S:2197:C:N4	1:25S:2241:U:H2'	2.28	0.48
1:25S:2918:G:H2'	1:25S:2919:A:H8	1.78	0.48
1:25S:2930:A:H2'	1:25S:2931:C:C6	2.49	0.48
46:18S:487:G:N1	46:18S:501:U:C2	2.82	0.48
46:18S:707:A:O2'	46:18S:731:C:N4	2.46	0.48
46:18S:991:G:O2'	46:18S:1013:A:N6	2.46	0.48
46:18S:1507:G:H2'	46:18S:1508:U:O4'	2.14	0.48
1:25S:173:G:H2'	1:25S:174:C:C6	2.49	0.47
1:25S:912:G:C2	1:25S:914:A:C2	3.02	0.47
1:25S:1015:U:H4'	1:25S:1016:C:C5	2.49	0.47
1:25S:1652:G:H2'	1:25S:1653:G:C8	2.49	0.47
1:25S:1952:G:H8	1:25S:1952:G:O5'	1.97	0.47
1:25S:2192:C:O2	1:25S:2312:A:H2	1.97	0.47
1:25S:2361:A:H2'	1:25S:2362:C:H6	1.78	0.47
1:25S:2561:A:N6	1:25S:2579:G:H2'	2.29	0.47
1:25S:3191:G:H2'	1:25S:3192:U:C6	2.48	0.47
46:18S:297:U:H2'	46:18S:298:C:C6	2.49	0.47
46:18S:826:U:O2	46:18S:846:G:C2	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:1357:A:H2'	46:18S:1358:G:C8	2.49	0.47
1:25S:1102:A:H5"	1:25S:1103:A:OP1	2.14	0.47
1:25S:1348:U:H4'	1:25S:1349:G:OP1	2.13	0.47
1:25S:1662:G:H22	1:25S:1787:A:H2	1.61	0.47
1:25S:2463:G:H1'	1:25S:2494:A:C6	2.49	0.47
46:18S:343:C:H2'	46:18S:344:A:C8	2.49	0.47
46:18S:1107:G:O2'	46:18S:1108:G:H5'	2.13	0.47
1:25S:381:U:H2'	1:25S:382:U:C6	2.49	0.47
1:25S:650:C:H2'	1:25S:651:G:C8	2.49	0.47
1:25S:1020:G:C2	1:25S:1033:U:H1'	2.49	0.47
1:25S:1398:U:H5"	3:58S:9:A:H5"	1.96	0.47
1:25S:1619:A:H2'	1:25S:1620:U:O4'	2.14	0.47
1:25S:1867:A:H2'	1:25S:1868:G:C8	2.49	0.47
1:25S:2140:U:O2	1:25S:2977:G:O2'	2.16	0.47
1:25S:2463:G:H2'	1:25S:2463:G:N3	2.29	0.47
1:25S:2685:C:H2'	1:25S:2686:A:H8	1.78	0.47
1:25S:2857:C:H2'	1:25S:2858:U:C6	2.49	0.47
1:25S:2937:G:H2'	1:25S:2938:G:O4'	2.14	0.47
46:18S:1287:A:H4'	46:18S:1288:G:H5'	1.97	0.47
1:25S:61:A:H2'	1:25S:62:A:O4'	2.14	0.47
1:25S:404:G:H2'	1:25S:405:U:O4'	2.15	0.47
1:25S:627:U:H2'	1:25S:628:A:H8	1.79	0.47
1:25S:863:C:H2'	1:25S:864:G:O4'	2.15	0.47
1:25S:1081:U:O2'	1:25S:1082:U:OP2	2.27	0.47
1:25S:1767:C:H2'	1:25S:1768:U:C6	2.50	0.47
1:25S:2352:A:H2'	1:25S:2353:G:H8	1.79	0.47
1:25S:2676:A:C5	1:25S:2680:A:N7	2.82	0.47
46:18S:366:A:OP1	46:18S:758:U:O2'	2.27	0.47
46:18S:888:U:H2'	46:18S:889:U:H6	1.78	0.47
46:18S:1060:U:O2'	46:18S:1061:A:O4'	2.22	0.47
1:25S:626:U:H2'	1:25S:627:U:C6	2.50	0.47
1:25S:884:A:N7	1:25S:2139:A:C4	2.82	0.47
1:25S:2168:A:N6	1:25S:2170:U:O2	2.46	0.47
1:25S:2904:U:H2'	1:25S:2905:U:H6	1.80	0.47
1:25S:3141:A:H3'	1:25S:3142:A:O3'	2.15	0.47
1:25S:3232:G:C5	1:25S:3233:C:C4	3.03	0.47
1:25S:3279:A:C2'	1:25S:3280:U:H5'	2.45	0.47
46:18S:61:A:H8	46:18S:269:G:O2'	1.96	0.47
46:18S:455:C:H3'	46:18S:456:A:H8	1.80	0.47
46:18S:990:C:H2'	46:18S:991:G:O4'	2.15	0.47
46:18S:1179:G:H2'	46:18S:1180:C:O4'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:1094:U:H5"	1:25S:1096:U:OP1	2.14	0.47
1:25S:1564:U:H2'	1:25S:1565:G:C8	2.46	0.47
1:25S:2207:A:OP1	46:18S:913:G:N2	2.47	0.47
3:58S:21:C:N4	3:58S:22:U:O4	2.48	0.47
46:18S:705:U:H5'	46:18S:706:A:OP2	2.14	0.47
46:18S:800:U:H2'	46:18S:801:G:C8	2.49	0.47
46:18S:1398:U:C4	46:18S:1400:A:N6	2.83	0.47
46:18S:1492:A:H3'	46:18S:1492:A:OP1	2.15	0.47
46:18S:1553:G:H22	46:18S:1556:A:P	2.37	0.47
1:25S:286:U:H2'	1:25S:287:G:C8	2.49	0.47
1:25S:422:A:C2	1:25S:2363:A:H4'	2.50	0.47
1:25S:1268:G:O2'	1:25S:1273:A:N6	2.48	0.47
1:25S:1278:A:H3'	1:25S:1279:C:C6	2.50	0.47
1:25S:1463:U:H2'	1:25S:1464:G:C8	2.50	0.47
1:25S:1565:G:C4	1:25S:1566:A:H1'	2.49	0.47
1:25S:1634:G:C6	1:25S:1640:G:C6	3.02	0.47
1:25S:1740:U:H1'	1:25S:1741:A:H2	1.79	0.47
1:25S:1813:A:H2'	1:25S:1814:A:N7	2.29	0.47
1:25S:2621:G:H2'	1:25S:2622:C:H6	1.80	0.47
1:25S:3299:A:C6	1:25S:3300:U:C4	3.01	0.47
2:AB:57:G:H3'	2:AB:58:C:C6	2.50	0.47
46:18S:713:A:O2'	46:18S:714:G:O4'	2.32	0.47
46:18S:736:C:C4	46:18S:737:A:N7	2.83	0.47
46:18S:823:G:N2	46:18S:824:G:H1'	2.30	0.47
46:18S:1135:U:H2'	46:18S:1136:U:C6	2.50	0.47
46:18S:1236:A:C4	46:18S:1237:G:C8	3.03	0.47
46:18S:1241:G:H3'	46:18S:1242:A:C8	2.50	0.47
46:18S:1340:U:O4'	46:18S:1378:U:H5"	2.14	0.47
46:18S:1459:C:H4'	46:18S:1460:A:OP1	2.14	0.47
46:18S:1578:U:H2'	46:18S:1579:U:H6	1.80	0.47
1:25S:412:G:H2'	1:25S:413:U:C6	2.49	0.47
1:25S:686:G:N1	1:25S:694:C:N3	2.50	0.47
1:25S:973:A:H2'	1:25S:974:G:O4'	2.15	0.47
1:25S:3026:G:O2'	1:25S:3028:G:N7	2.34	0.47
46:18S:600:U:H2'	46:18S:601:A:C8	2.50	0.47
46:18S:644:C:H2'	46:18S:645:C:H6	1.79	0.47
46:18S:685:A:H2'	46:18S:686:C:H6	1.79	0.47
46:18S:929:A:H3'	46:18S:930:A:H8	1.80	0.47
46:18S:939:A:H2'	46:18S:940:A:C8	2.50	0.47
46:18S:1041:G:H2'	46:18S:1042:G:C8	2.50	0.47
46:18S:1173:C:H2'	46:18S:1174:C:C6	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:1242:A:N6	46:18S:1244:A:N1	2.62	0.47
46:18S:1629:G:H2'	46:18S:1630:U:C6	2.50	0.47
3:58S:91:C:H2'	3:58S:92:A:C8	2.50	0.47
46:18S:123:G:H2'	46:18S:124:A:O4'	2.15	0.47
46:18S:252:U:H2'	46:18S:253:A:H8	1.79	0.47
46:18S:647:G:H8	46:18S:647:G:O5'	1.97	0.47
46:18S:929:A:H3'	46:18S:930:A:C8	2.49	0.47
46:18S:1670:G:HO2'	46:18S:1671:A:H8	1.59	0.47
1:25S:26:A:C4	1:25S:330:G:C8	3.03	0.47
1:25S:211:A:H5'	1:25S:229:G:H4'	1.95	0.47
1:25S:537:A:C4	1:25S:538:G:C8	3.03	0.47
1:25S:959:C:O2'	1:25S:2410:U:N3	2.46	0.47
1:25S:996:A:H2'	1:25S:997:A:O4'	2.15	0.47
1:25S:1004:U:H2'	1:25S:1005:G:C8	2.50	0.47
1:25S:1306:G:O2'	1:25S:1307:G:H5"	2.14	0.47
1:25S:2352:A:H2'	1:25S:2353:G:C8	2.51	0.47
2:AB:45:A:H2'	2:AB:46:A:C8	2.50	0.47
3:58S:77:A:H2'	3:58S:78:G:O4'	2.14	0.47
46:18S:390:G:O2'	46:18S:1731:A:H5"	2.15	0.47
46:18S:687:G:H8	46:18S:687:G:OP2	1.98	0.47
46:18S:755:A:H2'	46:18S:756:A:O4'	2.14	0.47
46:18S:1004:U:H5'	46:18S:1005:A:H5"	1.96	0.47
46:18S:1279:C:H2'	46:18S:1280:C:O4'	2.15	0.47
46:18S:1578:U:H2'	46:18S:1579:U:C6	2.50	0.47
1:25S:123:A:H5'	1:25S:124:U:OP2	2.14	0.46
1:25S:167:U:H2'	1:25S:168:U:O4'	2.15	0.46
1:25S:216:G:H2'	1:25S:217:U:C6	2.49	0.46
1:25S:501:A:H2'	1:25S:502:U:H6	1.80	0.46
1:25S:1068:C:N4	1:25S:1090:G:H1	2.14	0.46
1:25S:1326:A:H2'	1:25S:1327:C:O4'	2.15	0.46
1:25S:1648:A:H61	1:25S:1807:G:H1'	1.80	0.46
1:25S:2526:C:C2	1:25S:2527:G:C8	3.03	0.46
1:25S:3013:U:H2'	1:25S:3014:U:C6	2.50	0.46
46:18S:980:G:H2'	46:18S:981:U:H6	1.80	0.46
1:25S:1459:C:H2'	1:25S:1460:A:H8	1.78	0.46
1:25S:1516:C:H2'	1:25S:1517:G:C8	2.50	0.46
1:25S:1635:G:N2	1:25S:1638:A:OP2	2.32	0.46
1:25S:1716:U:O2'	1:25S:1717:U:H4'	2.15	0.46
1:25S:2507:C:H2'	1:25S:2508:U:C6	2.49	0.46
1:25S:2781:U:H2'	1:25S:2782:U:C6	2.50	0.46
3:58S:53:A:C4	3:58S:54:A:C8	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:998:A:N6	46:18S:1004:U:OP1	2.48	0.46
46:18S:1389:C:H2'	46:18S:1391:A:H5'	1.97	0.46
46:18S:1505:A:C5	46:18S:1506:G:H1'	2.50	0.46
1:25S:978:G:O2'	1:25S:980:A:H1'	2.15	0.46
1:25S:1575:A:N3	1:25S:1575:A:H2'	2.30	0.46
1:25S:2144:A:C4	1:25S:2281:A:N6	2.83	0.46
1:25S:2668:U:H2'	1:25S:2669:G:C8	2.51	0.46
1:25S:2885:C:O2'	1:25S:2886:U:H5'	2.15	0.46
1:25S:3278:C:O2	1:25S:3278:C:H2'	2.15	0.46
3:58S:94:C:HO2'	3:58S:95:G:H8	1.63	0.46
46:18S:977:A:H3'	46:18S:978:A:H8	1.80	0.46
46:18S:1050:G:C2'	46:18S:1051:G:H5'	2.45	0.46
46:18S:1349:G:H1'	46:18S:1379:C:N3	2.30	0.46
1:25S:201:A:H5'	1:25S:220:G:H2'	1.97	0.46
1:25S:949:C:H2'	1:25S:950:G:O4'	2.15	0.46
1:25S:1121:U:H2'	1:25S:1122:U:C6	2.51	0.46
1:25S:2464:U:H2'	1:25S:2465:G:H21	1.79	0.46
1:25S:3234:A:C6	1:25S:3254:G:N2	2.83	0.46
46:18S:174:U:H2'	46:18S:175:G:O4'	2.16	0.46
46:18S:396:G:N2	46:18S:398:G:H3'	2.30	0.46
46:18S:1186:U:H2'	46:18S:1187:U:O4'	2.15	0.46
1:25S:359:U:H2'	1:25S:360:G:O4'	2.16	0.46
1:25S:756:U:H2'	1:25S:757:C:H6	1.80	0.46
1:25S:826:G:OP1	1:25S:1590:G:O2'	2.29	0.46
1:25S:1250:G:H2'	1:25S:1251:A:C8	2.51	0.46
1:25S:1568:U:O2'	1:25S:1570:U:H2'	2.16	0.46
1:25S:1618:G:H5'	3:58S:129:C:H4'	1.97	0.46
1:25S:2726:C:O2'	1:25S:2727:A:H2'	2.14	0.46
1:25S:3345:G:H2'	1:25S:3346:U:C6	2.51	0.46
46:18S:38:C:H2'	46:18S:39:A:H5'	1.96	0.46
46:18S:876:G:H1'	46:18S:944:A:O4'	2.15	0.46
46:18S:888:U:H2'	46:18S:889:U:C6	2.50	0.46
46:18S:1162:C:H3'	46:18S:1163:A:H8	1.80	0.46
46:18S:1505:A:H1'	46:18S:1562:G:H21	1.80	0.46
1:25S:242:C:O2'	1:25S:243:G:O5'	2.29	0.46
1:25S:406:G:N2	3:58S:16:G:O2'	2.47	0.46
1:25S:526:C:C2	1:25S:527:A:C8	3.03	0.46
1:25S:1088:U:H3'	1:25S:1089:G:H8	1.80	0.46
1:25S:1623:G:H2'	1:25S:1624:G:O4'	2.15	0.46
3:58S:75:G:H2'	3:58S:76:C:C6	2.50	0.46
46:18S:177:U:H2'	46:18S:178:U:C5	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:890:C:H2'	46:18S:891:A:C8	2.51	0.46
46:18S:1109:G:O5'	46:18S:1109:G:H8	1.99	0.46
46:18S:1642:G:H2'	46:18S:1643:U:H6	1.81	0.46
1:25S:1404:G:N2	1:25S:1407:A:OP2	2.44	0.46
1:25S:1912:U:O2'	1:25S:2121:G:N7	2.36	0.46
1:25S:2776:C:H4'	1:25S:2777:G:C5	2.51	0.46
1:25S:2965:U:H2'	1:25S:2966:G:O4'	2.15	0.46
1:25S:2985:C:H2'	1:25S:2986:U:C6	2.50	0.46
46:18S:891:A:H2'	46:18S:892:A:H8	1.77	0.46
46:18S:1267:G:H8	46:18S:1267:G:O5'	1.98	0.46
1:25S:374:A:N3	1:25S:376:G:H5"	2.31	0.46
1:25S:412:G:H2'	1:25S:413:U:H6	1.81	0.46
1:25S:1032:C:H3'	1:25S:1033:U:H6	1.81	0.46
1:25S:1648:A:H2'	1:25S:1649:U:O4'	2.16	0.46
1:25S:2095:G:H3'	1:25S:2096:A:C8	2.50	0.46
1:25S:2772:C:H4'	1:25S:2773:C:O5'	2.16	0.46
1:25S:2902:A:H2'	1:25S:2903:A:O4'	2.15	0.46
1:25S:3230:G:H2'	1:25S:3231:U:O4'	2.15	0.46
46:18S:273:G:H2'	46:18S:274:G:C8	2.50	0.46
46:18S:874:C:H2'	46:18S:875:G:C8	2.51	0.46
46:18S:1310:U:H2'	46:18S:1311:U:C6	2.50	0.46
46:18S:1439:C:H2'	46:18S:1440:C:C6	2.51	0.46
46:18S:1554:U:H2'	46:18S:1555:A:O4'	2.16	0.46
1:25S:8:C:H2'	1:25S:9:U:O4'	2.15	0.46
1:25S:731:U:H2'	1:25S:732:C:H6	1.81	0.46
1:25S:737:G:H2'	1:25S:738:A:H8	1.80	0.46
1:25S:929:A:H2'	1:25S:930:U:C6	2.51	0.46
1:25S:2882:U:H2'	1:25S:2883:U:C6	2.51	0.46
46:18S:221:A:H2'	46:18S:221:A:N3	2.31	0.46
46:18S:446:A:C6	46:18S:447:U:C4	3.04	0.46
46:18S:559:C:H2'	46:18S:560:U:C6	2.51	0.46
46:18S:570:A:H8	46:18S:570:A:O5'	1.98	0.46
46:18S:1477:G:C2	46:18S:1478:G:C5	3.04	0.46
1:25S:140:C:H2'	1:25S:141:C:H6	1.79	0.46
1:25S:160:G:H2'	1:25S:161:G:O4'	2.16	0.46
1:25S:675:C:H2'	1:25S:676:G:O4'	2.15	0.46
1:25S:926:A:H2'	1:25S:927:C:H6	1.81	0.46
1:25S:977:C:H2'	1:25S:978:G:O4'	2.16	0.46
1:25S:1302:A:N7	1:25S:2857:C:O2'	2.49	0.46
1:25S:1487:G:H1	1:25S:1855:U:H3	1.64	0.46
1:25S:2361:A:H2'	1:25S:2362:C:C6	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:3041:U:H2'	1:25S:3042:U:C6	2.50	0.46
1:25S:3053:G:H2'	1:25S:3054:U:C6	2.51	0.46
1:25S:3371:G:H2'	1:25S:3372:A:H8	1.80	0.46
3:58S:55:U:C2	3:58S:56:G:C8	3.04	0.46
46:18S:699:U:H2'	46:18S:700:C:O4'	2.16	0.46
46:18S:872:G:H2'	46:18S:873:U:O4'	2.16	0.46
46:18S:1267:G:N2	46:18S:1446:A:H2	2.13	0.46
46:18S:1541:G:H2'	46:18S:1542:G:C4	2.50	0.46
1:25S:117:U:O2	1:25S:119:U:H2'	2.17	0.45
1:25S:240:U:H4'	1:25S:241:G:C5'	2.36	0.45
1:25S:499:G:H2'	1:25S:500:C:H6	1.81	0.45
1:25S:707:U:H2'	1:25S:708:G:C8	2.52	0.45
1:25S:937:G:H5'	1:25S:938:C:H5	1.81	0.45
1:25S:1273:A:H3'	1:25S:1274:A:H8	1.81	0.45
1:25S:2424:A:O5'	1:25S:2424:A:H8	1.99	0.45
1:25S:2621:G:H2'	1:25S:2622:C:C6	2.50	0.45
1:25S:2707:C:H2'	1:25S:2708:C:H6	1.80	0.45
3:58S:157:U:H2'	3:58S:158:U:H5'	1.98	0.45
46:18S:819:G:C6	46:18S:853:G:C2	3.04	0.45
46:18S:894:U:H2'	46:18S:895:G:C8	2.51	0.45
46:18S:1395:G:H22	46:18S:1403:C:H42	1.63	0.45
46:18S:1652:C:H2'	46:18S:1653:C:C6	2.49	0.45
1:25S:135:C:H5"	1:25S:136:G:C8	2.51	0.45
1:25S:548:G:H2'	1:25S:549:U:C6	2.50	0.45
1:25S:907:G:C4	1:25S:926:A:C8	3.04	0.45
1:25S:1089:G:H2'	1:25S:1090:G:H8	1.81	0.45
1:25S:1203:A:H2'	1:25S:1204:A:H8	1.77	0.45
1:25S:1764:U:H3'	1:25S:1765:U:O4'	2.16	0.45
1:25S:2348:A:O2'	1:25S:2391:G:OP1	2.27	0.45
1:25S:2842:U:HO2'	1:25S:2843:U:P	2.38	0.45
1:25S:3235:C:H3'	1:25S:3236:U:H6	1.81	0.45
46:18S:252:U:H2'	46:18S:253:A:C8	2.50	0.45
46:18S:876:G:H2'	46:18S:936:G:N2	2.31	0.45
46:18S:902:G:H2'	46:18S:903:U:H6	1.81	0.45
46:18S:912:U:H1'	46:18S:914:G:C5	2.51	0.45
46:18S:995:A:H2'	46:18S:996:U:O4'	2.15	0.45
46:18S:1082:C:O2'	46:18S:1083:G:OP1	2.27	0.45
46:18S:1483:A:H2'	46:18S:1484:G:C8	2.51	0.45
46:18S:1483:A:C5	46:18S:1524:A:C5	3.05	0.45
1:25S:490:A:H2'	1:25S:491:C:O4'	2.16	0.45
1:25S:937:G:N3	1:25S:963:G:H1'	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:1668:G:H2'	1:25S:1669:C:H6	1.81	0.45
1:25S:2441:A:H2'	1:25S:2442:G:O4'	2.17	0.45
1:25S:2955:U:OP2	1:25S:2977:G:N2	2.42	0.45
1:25S:3314:A:H2'	1:25S:3315:G:C8	2.52	0.45
2:AB:4:U:H4'	2:AB:26:C:C4'	2.47	0.45
2:AB:31:U:O2'	2:AB:32:U:H5'	2.17	0.45
46:18S:30:G:H2'	46:18S:31:C:H6	1.81	0.45
46:18S:206:A:C5	46:18S:207:U:C5	3.04	0.45
46:18S:521:A:H2'	46:18S:522:U:O4'	2.16	0.45
1:25S:308:A:H5'	1:25S:2223:A:O2'	2.15	0.45
1:25S:616:G:C2	1:25S:617:G:C8	3.04	0.45
3:58S:93:U:H2'	3:58S:94:C:C6	2.51	0.45
46:18S:887:A:C4	46:18S:888:U:C5	3.04	0.45
46:18S:1162:C:H3'	46:18S:1163:A:C8	2.51	0.45
46:18S:1218:G:O2'	46:18S:1264:G:N2	2.45	0.45
1:25S:26:A:N3	1:25S:328:U:H1'	2.32	0.45
1:25S:277:G:H2'	1:25S:278:U:C6	2.51	0.45
1:25S:300:G:H2'	1:25S:301:G:H8	1.81	0.45
1:25S:346:C:OP1	3:58S:26:U:H4'	2.17	0.45
1:25S:508:U:H2'	1:25S:509:U:C6	2.52	0.45
1:25S:1169:A:H2'	1:25S:1170:A:C8	2.51	0.45
1:25S:1628:C:H4'	1:25S:1629:U:H3'	1.99	0.45
1:25S:2214:A:H2	1:25S:2430:A:H1'	1.81	0.45
1:25S:2424:A:H3'	1:25S:2425:G:H8	1.81	0.45
1:25S:2446:U:H2'	1:25S:2447:A:H8	1.79	0.45
1:25S:2572:C:C5	1:25S:2573:G:H1'	2.51	0.45
1:25S:2709:C:H2'	1:25S:2710:C:H6	1.82	0.45
1:25S:3116:G:H3'	1:25S:3117:C:H6	1.82	0.45
46:18S:713:A:H2	46:18S:726:C:N4	2.14	0.45
46:18S:1564:U:H2'	46:18S:1565:C:C6	2.51	0.45
46:18S:1590:G:H2'	46:18S:1591:C:H6	1.81	0.45
46:18S:1689:A:N1	46:18S:1713:G:C4	2.85	0.45
1:25S:123:A:C6	1:25S:150:A:C5	3.05	0.45
1:25S:335:G:H2'	1:25S:336:A:O4'	2.17	0.45
1:25S:380:U:H2'	1:25S:381:U:O4'	2.16	0.45
1:25S:392:G:H2'	1:25S:393:U:C6	2.52	0.45
1:25S:1460:A:H2'	1:25S:1461:A:C8	2.52	0.45
1:25S:1718:G:H2'	1:25S:1719:G:H8	1.82	0.45
1:25S:3201:C:H2'	1:25S:3202:G:O4'	2.17	0.45
1:25S:3296:A:H2'	1:25S:3297:U:C6	2.51	0.45
2:AB:84:A:H2'	2:AB:85:G:C8	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:615:A:C2'	46:18S:616:G:H5'	2.47	0.45
46:18S:1002:G:N2	46:18S:1760:G:H4'	2.32	0.45
46:18S:1666:U:H2'	46:18S:1667:A:C8	2.52	0.45
1:25S:708:G:H2'	1:25S:710:A:N7	2.32	0.45
1:25S:723:U:H2'	1:25S:724:U:C6	2.52	0.45
1:25S:748:U:H2'	1:25S:749:C:C6	2.52	0.45
1:25S:1471:U:H2'	1:25S:1472:U:C6	2.51	0.45
1:25S:2358:A:H3'	1:25S:2359:C:H6	1.82	0.45
1:25S:2389:C:H2'	1:25S:2390:A:C8	2.52	0.45
1:25S:2429:G:H2'	1:25S:2430:A:H8	1.82	0.45
46:18S:273:G:H2'	46:18S:274:G:H8	1.81	0.45
46:18S:395:U:H2'	46:18S:396:G:O4'	2.16	0.45
46:18S:482:U:N3	46:18S:483:A:N7	2.65	0.45
46:18S:992:A:H2	46:18S:1012:U:N3	2.01	0.45
1:25S:127:G:H2'	1:25S:128:G:C8	2.52	0.45
1:25S:277:G:H2'	1:25S:278:U:H6	1.81	0.45
1:25S:349:A:C4	3:58S:24:G:H1'	2.52	0.45
1:25S:845:G:N2	1:25S:848:A:OP2	2.49	0.45
1:25S:993:G:N3	1:25S:2637:A:H2'	2.31	0.45
1:25S:1488:G:C2	1:25S:1489:A:C8	3.04	0.45
1:25S:1704:A:H1'	1:25S:1741:A:N6	2.31	0.45
1:25S:1704:A:H1'	1:25S:1741:A:H61	1.82	0.45
1:25S:2269:U:H5	1:25S:2272:G:O6	2.00	0.45
1:25S:2397:A:H61	1:25S:2869:U:H4'	1.81	0.45
1:25S:2656:A:C4	1:25S:2658:G:N7	2.85	0.45
1:25S:2813:A:H2'	1:25S:2814:G:O4'	2.16	0.45
1:25S:2846:U:H5"	1:25S:2848:G:O6	2.16	0.45
46:18S:460:A:H5'	46:18S:461:G:OP2	2.16	0.45
46:18S:979:A:C4	46:18S:980:G:C8	3.05	0.45
1:25S:830:A:H2'	1:25S:831:G:O4'	2.17	0.45
1:25S:991:G:C6	1:25S:1059:G:C6	3.04	0.45
1:25S:2428:U:H2'	1:25S:2429:G:H8	1.81	0.45
46:18S:61:A:H1'	46:18S:269:G:O2'	2.17	0.45
46:18S:590:C:H2'	46:18S:591:A:C8	2.52	0.45
46:18S:954:G:H2'	46:18S:955:A:C8	2.51	0.45
1:25S:601:U:HO2'	1:25S:602:A:P	2.39	0.45
1:25S:624:G:H2'	1:25S:625:G:C8	2.51	0.45
1:25S:638:C:H2'	1:25S:639:G:H8	1.82	0.45
1:25S:1349:G:OP1	1:25S:1349:G:H3'	2.17	0.45
1:25S:1378:U:H2'	1:25S:1379:G:C8	2.48	0.45
1:25S:2676:A:C6	1:25S:2680:A:C8	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:2776:C:H4'	1:25S:2777:G:N7	2.32	0.45
1:25S:3153:U:H4'	1:25S:3155:U:O4	2.16	0.45
1:25S:3164:C:H2'	1:25S:3165:A:H8	1.81	0.45
46:18S:524:U:H1'	46:18S:527:A:N7	2.32	0.45
46:18S:688:G:H2'	46:18S:689:G:O4'	2.16	0.45
46:18S:816:G:C2	46:18S:817:A:C8	3.04	0.45
46:18S:1081:A:H4'	46:18S:1082:C:H5'	1.97	0.45
46:18S:1220:C:O5'	46:18S:1220:C:H6	1.99	0.45
46:18S:1340:U:H2'	46:18S:1340:U:H6	1.52	0.45
46:18S:1353:U:N3	46:18S:1354:G:O6	2.50	0.45
1:25S:130:A:H2'	1:25S:131:C:O4'	2.17	0.44
1:25S:380:U:H2'	1:25S:381:U:C6	2.52	0.44
1:25S:693:A:H2'	1:25S:694:C:H6	1.82	0.44
1:25S:701:G:H2'	1:25S:702:C:C6	2.51	0.44
1:25S:720:A:C2	1:25S:784:A:H5'	2.51	0.44
1:25S:1068:C:H42	1:25S:1090:G:H1	1.64	0.44
1:25S:1816:A:H2'	1:25S:1816:A:N3	2.32	0.44
1:25S:2150:G:O2'	1:25S:2189:U:OP1	2.34	0.44
1:25S:2257:C:H2'	1:25S:2258:U:O4'	2.17	0.44
3:58S:4:C:H2'	3:58S:5:U:H6	1.82	0.44
46:18S:542:A:H8	46:18S:543:C:H5'	1.82	0.44
46:18S:903:U:H1'	46:18S:906:A:N7	2.32	0.44
46:18S:1406:A:H2'	46:18S:1407:U:C6	2.52	0.44
46:18S:1580:C:H2'	46:18S:1581:C:C6	2.52	0.44
1:25S:143:G:H2'	1:25S:144:A:H8	1.83	0.44
1:25S:669:U:H2'	1:25S:670:C:C6	2.52	0.44
1:25S:936:A:H5"	1:25S:937:G:OP1	2.17	0.44
1:25S:1047:A:N3	1:25S:2633:U:O2'	2.50	0.44
1:25S:1243:G:H2'	1:25S:1244:A:H5"	1.99	0.44
1:25S:1552:G:H2'	1:25S:1553:U:H6	1.81	0.44
1:25S:1566:A:H2	1:25S:1572:U:N3	2.15	0.44
1:25S:2429:G:H2'	1:25S:2430:A:C8	2.52	0.44
1:25S:2511:A:N3	1:25S:2511:A:H2'	2.32	0.44
1:25S:2778:G:C2'	1:25S:2779:A:H5'	2.47	0.44
2:AB:27:A:H2'	2:AB:28:C:C6	2.52	0.44
3:58S:76:C:H2'	3:58S:77:A:O4'	2.17	0.44
46:18S:31:C:O2'	46:18S:547:U:OP1	2.29	0.44
46:18S:827:C:N4	46:18S:845:G:H22	2.15	0.44
1:25S:888:A:H2'	1:25S:889:U:C6	2.52	0.44
1:25S:1505:C:O2'	1:25S:1506:A:H5'	2.18	0.44
1:25S:1618:G:H4'	3:58S:129:C:H1'	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:199:G:O2'	46:18S:200:A:OP2	2.34	0.44
46:18S:604:A:H2'	46:18S:605:A:O4'	2.16	0.44
46:18S:654:C:N4	46:18S:679:U:O4	2.50	0.44
46:18S:1168:U:H2'	46:18S:1169:G:H8	1.82	0.44
46:18S:1348:A:H2'	46:18S:1349:G:H8	1.76	0.44
46:18S:1364:G:H2'	46:18S:1365:C:H6	1.82	0.44
46:18S:1509:C:H2'	46:18S:1510:U:O4'	2.16	0.44
46:18S:1682:U:HO2'	46:18S:1683:C:H6	1.64	0.44
1:25S:544:C:H2'	1:25S:546:C:OP2	2.16	0.44
1:25S:593:C:C2'	1:25S:594:U:H5'	2.47	0.44
1:25S:595:G:H2'	1:25S:596:C:C6	2.51	0.44
1:25S:846:A:H2'	1:25S:847:A:O4'	2.18	0.44
1:25S:1132:C:H2'	1:25S:1133:A:C8	2.52	0.44
1:25S:1356:U:H5'	1:25S:1357:G:C8	2.52	0.44
1:25S:1745:C:H2'	1:25S:1746:U:H6	1.82	0.44
1:25S:2305:G:OP2	1:25S:2305:G:N2	2.45	0.44
1:25S:3027:A:H2'	1:25S:3028:G:O4'	2.18	0.44
1:25S:3296:A:H2'	1:25S:3297:U:H6	1.83	0.44
1:25S:3321:C:H2'	1:25S:3322:A:H8	1.82	0.44
2:AB:113:C:H2'	2:AB:114:U:O4'	2.18	0.44
3:58S:40:A:H2'	3:58S:41:A:C8	2.53	0.44
46:18S:384:G:H2'	46:18S:385:A:H8	1.81	0.44
46:18S:874:C:H5'	46:18S:1047:G:OP1	2.17	0.44
1:25S:564:G:C2	1:25S:565:U:H1'	2.52	0.44
1:25S:1946:A:H2'	1:25S:1947:G:C8	2.53	0.44
1:25S:2235:C:C4	1:25S:2236:G:N7	2.86	0.44
1:25S:2389:C:H2'	1:25S:2390:A:H8	1.82	0.44
1:25S:3051:U:C2	1:25S:3052:G:C8	3.05	0.44
46:18S:150:U:H2'	46:18S:151:G:O4'	2.17	0.44
46:18S:199:G:O2'	46:18S:200:A:N7	2.50	0.44
46:18S:514:G:N3	46:18S:515:A:C8	2.86	0.44
46:18S:1410:A:HO2'	46:18S:1411:A:P	2.35	0.44
1:25S:517:G:H2'	1:25S:518:G:O4'	2.18	0.44
1:25S:537:A:H2'	1:25S:538:G:H8	1.83	0.44
1:25S:951:A:P	1:25S:1367:G:H22	2.40	0.44
1:25S:1780:G:H2'	1:25S:1781:C:H6	1.83	0.44
1:25S:1924:U:H2'	1:25S:1926:C:C4	2.53	0.44
1:25S:2993:G:H2'	1:25S:3142:A:H61	1.82	0.44
3:58S:103:G:OP2	3:58S:105:A:O2'	2.30	0.44
46:18S:434:G:N2	46:18S:436:A:H3'	2.32	0.44
46:18S:647:G:N2	46:18S:687:G:N1	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:740:A:H2'	46:18S:741:C:O2	2.18	0.44
46:18S:1096:C:H1'	46:18S:1099:U:H4'	1.98	0.44
46:18S:1484:G:O2'	46:18S:1485:C:H5'	2.17	0.44
1:25S:160:G:H8	1:25S:160:G:O5'	2.01	0.44
1:25S:361:A:O4'	1:25S:814:U:H4'	2.18	0.44
1:25S:531:G:H2'	1:25S:532:A:H5'	2.00	0.44
1:25S:595:G:C8	1:25S:609:G:C6	3.05	0.44
1:25S:1909:A:H2'	1:25S:1910:A:C8	2.53	0.44
1:25S:2363:A:C2	1:25S:2376:G:C6	3.06	0.44
1:25S:2438:A:H2'	1:25S:2439:A:O4'	2.18	0.44
1:25S:3063:C:H2'	1:25S:3064:U:C6	2.53	0.44
1:25S:3211:C:H2'	1:25S:3212:C:C6	2.53	0.44
1:25S:3282:U:H2'	1:25S:3283:U:C6	2.53	0.44
46:18S:53:G:H2'	46:18S:54:C:C6	2.52	0.44
46:18S:182:A:H8	46:18S:182:A:OP2	2.01	0.44
46:18S:741:C:OP1	46:18S:741:C:H4'	2.17	0.44
46:18S:1334:U:H2'	46:18S:1335:U:H6	1.82	0.44
46:18S:1590:G:H2'	46:18S:1591:C:C6	2.52	0.44
1:25S:12:A:H2'	1:25S:13:A:C8	2.53	0.44
1:25S:51:A:C4	1:25S:52:A:C8	3.06	0.44
1:25S:99:A:H1'	1:25S:281:G:N7	2.33	0.44
1:25S:532:A:O2'	1:25S:533:A:O5'	2.35	0.44
1:25S:1355:A:H4'	1:25S:1356:U:C5'	2.47	0.44
1:25S:1532:C:H2'	1:25S:1533:U:C6	2.52	0.44
1:25S:1595:U:C2	1:25S:1596:C:C6	3.06	0.44
1:25S:1709:C:H2'	1:25S:1710:C:C6	2.53	0.44
1:25S:2508:U:H2'	1:25S:2509:U:O4'	2.18	0.44
1:25S:2666:C:N3	1:25S:2689:A:H8	2.16	0.44
46:18S:99:C:H2'	46:18S:378:A:H4'	2.00	0.44
46:18S:733:A:H1'	46:18S:735:C:H41	1.83	0.44
46:18S:823:G:C2	46:18S:824:G:H1'	2.53	0.44
46:18S:1222:C:C2	46:18S:1223:A:C8	3.05	0.44
46:18S:1360:A:C6	46:18S:1361:U:H1'	2.53	0.44
46:18S:1650:U:H2'	46:18S:1651:A:C8	2.52	0.44
1:25S:62:A:H2'	1:25S:63:A:C8	2.53	0.44
1:25S:172:G:H2'	1:25S:172:G:N3	2.33	0.44
1:25S:300:G:H2'	1:25S:301:G:C8	2.53	0.44
1:25S:401:U:O2'	1:25S:402:A:OP2	2.32	0.44
1:25S:1622:U:C2	1:25S:1623:G:C8	3.06	0.44
1:25S:1805:C:H2'	1:25S:1806:A:C8	2.53	0.44
1:25S:2545:C:H2'	1:25S:2546:C:H6	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:2576:G:H2'	1:25S:2577:C:H6	1.82	0.44
1:25S:2631:U:OP1	1:25S:2757:U:O2'	2.26	0.44
1:25S:2639:G:H2'	1:25S:2640:A:C8	2.53	0.44
1:25S:2737:C:H2'	1:25S:2738:A:O4'	2.17	0.44
1:25S:2762:A:H2'	1:25S:2763:U:H6	1.82	0.44
1:25S:2817:A:HO2'	1:25S:2818:U:H5	1.64	0.44
1:25S:2881:C:H2'	1:25S:2882:U:H6	1.83	0.44
46:18S:523:G:N1	46:18S:528:U:OP2	2.39	0.44
46:18S:1063:U:H3'	46:18S:1064:G:C8	2.51	0.44
46:18S:1078:C:H2'	46:18S:1079:U:H6	1.82	0.44
46:18S:1144:U:H2'	46:18S:1145:U:C6	2.52	0.44
46:18S:1200:G:H4'	46:18S:1201:G:C5'	2.48	0.44
46:18S:1381:U:H2'	46:18S:1382:A:H5'	1.99	0.44
1:25S:26:A:C2	1:25S:328:U:H1'	2.53	0.43
1:25S:107:A:H2'	1:25S:108:A:O4'	2.18	0.43
1:25S:258:G:H2'	1:25S:259:C:C6	2.53	0.43
1:25S:536:U:H2'	1:25S:537:A:H8	1.83	0.43
1:25S:592:A:H2'	1:25S:593:C:O4'	2.18	0.43
1:25S:632:G:H2'	1:25S:633:C:C6	2.53	0.43
1:25S:1226:G:H2'	1:25S:1227:C:C6	2.53	0.43
46:18S:273:G:N2	46:18S:283:U:O2	2.42	0.43
46:18S:642:G:H2'	46:18S:643:G:H8	1.83	0.43
46:18S:645:C:H2'	46:18S:646:C:C6	2.53	0.43
46:18S:1266:U:O5'	46:18S:1266:U:H6	2.01	0.43
46:18S:1287:A:H4'	46:18S:1288:G:OP1	2.18	0.43
46:18S:1348:A:C6	46:18S:1349:G:C6	3.06	0.43
46:18S:1414:U:OP1	46:18S:1414:U:H6	2.00	0.43
46:18S:1584:G:O2'	46:18S:1610:G:O6	2.28	0.43
1:25S:664:U:O2	1:25S:798:G:N2	2.41	0.43
1:25S:1260:A:N3	1:25S:1280:C:H1'	2.34	0.43
1:25S:1667:A:H2'	1:25S:1668:G:H8	1.82	0.43
1:25S:3351:U:OP1	1:25S:3351:U:H6	2.01	0.43
46:18S:869:A:H61	46:18S:958:U:H3	1.66	0.43
46:18S:1651:A:N1	46:18S:1749:A:H2	2.16	0.43
1:25S:289:A:H2'	1:25S:290:G:C8	2.48	0.43
1:25S:629:U:H2'	1:25S:630:A:C8	2.53	0.43
1:25S:1105:A:H2'	1:25S:1106:G:C8	2.53	0.43
1:25S:1915:A:H2'	1:25S:1916:U:C6	2.53	0.43
1:25S:2775:U:H2'	1:25S:2776:C:C6	2.53	0.43
1:25S:2884:C:H2'	1:25S:2885:C:H6	1.82	0.43
1:25S:3004:C:H2'	1:25S:3005:A:O4'	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:3232:G:C6	1:25S:3233:C:C4	3.06	0.43
2:AB:33:U:H2'	2:AB:34:C:O4'	2.18	0.43
2:AB:79:A:H2'	2:AB:80:G:O4'	2.19	0.43
46:18S:1359:C:H2'	46:18S:1360:A:O4'	2.18	0.43
46:18S:1594:G:H2'	46:18S:1595:U:O4'	2.18	0.43
46:18S:1775:U:H2'	46:18S:1776:A:C8	2.53	0.43
1:25S:41:G:N2	1:25S:2803:A:N7	2.67	0.43
1:25S:92:G:H5'	1:25S:94:G:N7	2.34	0.43
1:25S:112:U:C2	1:25S:113:C:C6	3.07	0.43
1:25S:253:A:H2'	1:25S:254:A:O4'	2.19	0.43
1:25S:508:U:H3	1:25S:583:G:H1	1.66	0.43
1:25S:821:U:H2'	1:25S:822:G:H8	1.81	0.43
1:25S:960:U:H4'	1:25S:963:G:C2	2.54	0.43
1:25S:1000:C:C2	1:25S:1045:C:N4	2.87	0.43
1:25S:1226:G:H2'	1:25S:1227:C:H6	1.83	0.43
1:25S:1665:C:H2'	1:25S:1666:G:H8	1.83	0.43
1:25S:2223:A:H8	1:25S:2223:A:OP2	2.02	0.43
2:AB:38:U:H2'	2:AB:40:C:H5	1.83	0.43
46:18S:499:U:H3'	46:18S:500:C:C5	2.53	0.43
46:18S:1053:G:H2'	46:18S:1053:G:N3	2.32	0.43
46:18S:1319:A:H2'	46:18S:1320:U:O4'	2.18	0.43
46:18S:1466:G:H2'	46:18S:1467:C:C6	2.53	0.43
1:25S:132:C:C2	1:25S:137:G:C2	3.06	0.43
1:25S:208:C:H2'	1:25S:209:A:C8	2.53	0.43
1:25S:270:U:O2'	1:25S:318:A:H1'	2.18	0.43
1:25S:816:A:N1	1:25S:919:U:H1'	2.33	0.43
1:25S:1177:G:H1'	1:25S:1178:G:N7	2.33	0.43
1:25S:1436:U:H5"	1:25S:1437:C:O5'	2.19	0.43
1:25S:1495:U:H5	1:25S:1835:A:C2	2.35	0.43
1:25S:1561:G:O2'	1:25S:1562:C:P	2.77	0.43
1:25S:1613:A:H2'	1:25S:1614:C:C6	2.54	0.43
1:25S:1676:A:C6	1:25S:1677:G:N7	2.86	0.43
1:25S:2816:G:C8	1:25S:2869:U:H3'	2.54	0.43
46:18S:472:U:H2'	46:18S:473:A:C8	2.52	0.43
46:18S:956:C:H2'	46:18S:957:G:H8	1.84	0.43
46:18S:1260:U:H2'	46:18S:1261:G:C8	2.54	0.43
46:18S:1458:G:H2'	46:18S:1458:G:N3	2.32	0.43
46:18S:1475:A:H61	46:18S:1532:U:H3	1.66	0.43
46:18S:1677:C:H2'	46:18S:1678:A:O4'	2.18	0.43
1:25S:207:U:H2'	1:25S:208:C:C6	2.54	0.43
1:25S:692:A:H2'	1:25S:693:A:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:802:C:O2'	1:25S:803:C:H5'	2.18	0.43
1:25S:822:G:H2'	1:25S:823:C:H6	1.84	0.43
1:25S:1127:G:H8	1:25S:1127:G:O5'	2.00	0.43
1:25S:1387:G:C2	1:25S:1388:U:C5	3.07	0.43
1:25S:1622:U:N3	1:25S:1623:G:N7	2.65	0.43
1:25S:1766:G:C6	1:25S:1767:C:C5	3.06	0.43
1:25S:2190:U:C4	1:25S:2191:U:C4	3.07	0.43
1:25S:2197:C:H4'	1:25S:2198:A:H8	1.83	0.43
1:25S:2200:U:C2	1:25S:2201:G:C8	3.06	0.43
1:25S:2213:A:C8	1:25S:2232:A:N6	2.86	0.43
1:25S:2296:A:H2	1:25S:2918:G:N3	2.16	0.43
1:25S:3047:U:O2'	1:25S:3048:A:H5'	2.19	0.43
1:25S:3255:U:C4	1:25S:3256:G:N7	2.87	0.43
46:18S:208:U:H2'	46:18S:209:U:C6	2.53	0.43
46:18S:907:A:H2'	46:18S:908:U:C6	2.53	0.43
46:18S:1221:A:H2'	46:18S:1222:C:H6	1.83	0.43
46:18S:1461:C:H2'	46:18S:1462:G:C8	2.54	0.43
1:25S:193:C:H2'	1:25S:194:U:H6	1.84	0.43
1:25S:408:A:H2'	1:25S:409:A:O4'	2.19	0.43
1:25S:656:A:H2'	1:25S:657:A:C8	2.54	0.43
1:25S:659:G:H2'	1:25S:1432:C:H42	1.84	0.43
1:25S:1295:G:H2'	1:25S:1296:C:C6	2.54	0.43
1:25S:1494:U:H1'	1:25S:1496:C:C5	2.54	0.43
1:25S:2247:G:H1'	1:25S:2270:A:N1	2.33	0.43
1:25S:2533:G:N2	1:25S:2547:A:N3	2.66	0.43
1:25S:2799:A:H4'	1:25S:2800:G:C8	2.53	0.43
3:58S:47:C:O2'	3:58S:48:A:H5'	2.19	0.43
46:18S:1104:U:H2'	46:18S:1105:C:C6	2.54	0.43
46:18S:1352:G:N2	46:18S:1374:C:C4	2.86	0.43
46:18S:1452:U:H2'	46:18S:1453:G:H8	1.84	0.43
46:18S:1732:A:H2'	46:18S:1733:C:C6	2.53	0.43
1:25S:106:A:H5'	1:25S:685:G:H5'	2.00	0.43
1:25S:1229:G:C4	1:25S:1230:G:C8	3.07	0.43
1:25S:1676:A:H8	1:25S:1676:A:O5'	2.01	0.43
1:25S:1710:C:H2'	1:25S:1711:C:C6	2.54	0.43
1:25S:3100:U:O2'	1:25S:3101:G:H8	2.02	0.43
1:25S:3321:C:H2'	1:25S:3322:A:C8	2.54	0.43
2:AB:47:C:H2'	2:AB:48:U:C6	2.54	0.43
46:18S:1214:U:C4	46:18S:1215:C:C4	3.07	0.43
46:18S:1214:U:OP1	46:18S:1246:C:H1'	2.18	0.43
46:18S:1382:A:H1'	46:18S:1383:G:C8	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:1504:G:C6	46:18S:1505:A:C6	3.07	0.43
46:18S:1543:A:N6	46:18S:1568:C:O4'	2.52	0.43
46:18S:1592:A:H2'	46:18S:1593:A:H8	1.84	0.43
46:18S:1623:C:H2'	46:18S:1624:C:C6	2.54	0.43
1:25S:122:A:N7	1:25S:146:U:N3	2.67	0.43
1:25S:407:A:C2	3:58S:17:A:H1'	2.54	0.43
1:25S:1014:U:O2	1:25S:1017:C:N4	2.52	0.43
1:25S:1281:G:C2	1:25S:1282:G:C8	3.06	0.43
1:25S:1668:G:H2'	1:25S:1669:C:C6	2.53	0.43
1:25S:1785:U:H2'	1:25S:1786:G:C8	2.54	0.43
1:25S:1855:U:H2'	1:25S:1856:C:C6	2.54	0.43
1:25S:2412:G:C2	1:25S:2811:A:C4	3.07	0.43
1:25S:3269:U:O4'	1:25S:3271:G:N1	2.52	0.43
46:18S:186:C:C2	46:18S:199:G:O6	2.72	0.43
46:18S:275:C:H2'	46:18S:276:C:C6	2.54	0.43
46:18S:628:G:N1	46:18S:970:A:OP2	2.36	0.43
46:18S:821:U:H2'	46:18S:822:U:H6	1.83	0.43
46:18S:932:U:H4'	46:18S:933:A:O4'	2.19	0.43
46:18S:1172:G:H2'	46:18S:1173:C:C6	2.53	0.43
1:25S:638:C:C2	1:25S:639:G:C8	3.07	0.43
1:25S:900:G:H1'	1:25S:1589:A:H61	1.82	0.43
1:25S:1867:A:H3'	1:25S:1868:G:C8	2.54	0.43
1:25S:2105:G:H2'	1:25S:2106:A:H8	1.84	0.43
1:25S:3351:U:O4	1:25S:3356:G:N2	2.48	0.43
3:58S:65:A:C4	3:58S:66:A:C8	3.07	0.43
46:18S:859:A:H3'	46:18S:860:U:C5'	2.48	0.43
46:18S:863:A:C8	46:18S:865:A:C8	3.07	0.43
46:18S:1038:U:C2	46:18S:1094:G:N2	2.87	0.43
1:25S:337:G:N2	3:58S:27:U:H1'	2.34	0.42
1:25S:626:U:H2'	1:25S:627:U:H6	1.84	0.42
1:25S:1627:U:O2	1:25S:1814:A:N6	2.52	0.42
1:25S:2271:A:N7	1:25S:2272:G:C6	2.88	0.42
1:25S:2608:G:H2'	1:25S:2609:A:H8	1.84	0.42
2:AB:14:U:O4	2:AB:67:G:N2	2.52	0.42
46:18S:77:U:O2'	46:18S:78:A:OP2	2.31	0.42
46:18S:301:A:H2'	46:18S:302:U:O4'	2.19	0.42
46:18S:681:U:H2'	46:18S:682:C:C6	2.54	0.42
46:18S:1066:C:H2'	46:18S:1067:C:H6	1.84	0.42
46:18S:1076:A:H2'	46:18S:1077:C:O4'	2.19	0.42
1:25S:113:C:H3'	1:25S:154:U:O4	2.19	0.42
1:25S:613:G:H2'	1:25S:614:C:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:693:A:H2'	1:25S:694:C:C6	2.54	0.42
1:25S:1249:G:H2'	1:25S:1250:G:C8	2.53	0.42
1:25S:1549:U:H2'	1:25S:1550:C:C6	2.53	0.42
1:25S:2390:A:H2'	1:25S:2391:G:O4'	2.19	0.42
1:25S:2862:U:H2'	1:25S:2863:G:O4'	2.19	0.42
1:25S:2882:U:H2'	1:25S:2883:U:H6	1.84	0.42
46:18S:141:U:C6	46:18S:266:A:C6	3.08	0.42
46:18S:852:C:H2'	46:18S:853:G:O4'	2.19	0.42
46:18S:1162:C:H5'	46:18S:1163:A:OP2	2.20	0.42
46:18S:1178:G:C6	46:18S:1462:G:C6	3.07	0.42
46:18S:1186:U:C2	46:18S:1208:A:C5	3.06	0.42
46:18S:1250:U:O2'	46:18S:1251:U:H5'	2.19	0.42
46:18S:1266:U:H3	46:18S:1443:U:H3	1.68	0.42
46:18S:1439:C:H2'	46:18S:1440:C:H6	1.84	0.42
1:25S:518:G:H3'	1:25S:519:A:H3'	2.02	0.42
1:25S:605:U:O2'	1:25S:606:C:H5'	2.18	0.42
1:25S:874:U:H5"	1:25S:2950:G:OP1	2.20	0.42
1:25S:964:G:H2'	1:25S:965:A:H8	1.84	0.42
1:25S:1019:G:H22	1:25S:1033:U:H3	1.68	0.42
1:25S:2405:C:O2	1:25S:2819:A:N1	2.52	0.42
1:25S:3131:U:H2'	1:25S:3132:C:H6	1.84	0.42
3:58S:27:U:H2'	3:58S:28:C:C6	2.54	0.42
46:18S:20:G:H5'	46:18S:571:G:C8	2.54	0.42
46:18S:93:A:H5'	46:18S:94:U:C5	2.54	0.42
46:18S:220:A:H8	46:18S:831:U:O2	2.02	0.42
46:18S:1088:A:C4'	46:18S:1143:A:H5'	2.50	0.42
46:18S:1288:G:N7	46:18S:1314:U:O2'	2.40	0.42
1:25S:38:U:H2'	1:25S:39:A:O4'	2.19	0.42
1:25S:155:G:H5'	1:25S:156:G:H8	1.78	0.42
1:25S:286:U:H2'	1:25S:287:G:H8	1.85	0.42
1:25S:290:G:H2'	1:25S:291:C:H6	1.84	0.42
1:25S:1597:C:C2	1:25S:1598:G:N7	2.87	0.42
1:25S:1658:G:H2'	1:25S:1659:U:H6	1.85	0.42
1:25S:2571:U:H3'	1:25S:2572:C:C6	2.54	0.42
46:18S:648:G:C2	46:18S:687:G:N3	2.87	0.42
46:18S:846:G:H2'	46:18S:847:A:H8	1.84	0.42
46:18S:857:U:C2'	46:18S:858:G:H5'	2.50	0.42
46:18S:924:A:H2'	46:18S:925:G:C8	2.55	0.42
46:18S:1078:C:H2'	46:18S:1079:U:C6	2.55	0.42
46:18S:1091:A:H4'	46:18S:1092:A:O4'	2.19	0.42
46:18S:1291:G:H2'	46:18S:1292:G:H8	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:1759:C:H2'	46:18S:1760:G:O4'	2.20	0.42
1:25S:344:A:C4	1:25S:345:G:C8	3.08	0.42
1:25S:377:A:H1'	1:25S:392:G:N2	2.34	0.42
1:25S:1497:C:H2'	1:25S:1498:A:C8	2.53	0.42
1:25S:1644:C:H5"	1:25S:1645:U:OP1	2.20	0.42
1:25S:2631:U:H2'	1:25S:2632:G:H8	1.84	0.42
1:25S:2904:U:H2'	1:25S:2905:U:C6	2.54	0.42
3:58S:14:C:C4	3:58S:15:G:C6	3.07	0.42
46:18S:53:G:H2'	46:18S:54:C:H6	1.84	0.42
46:18S:281:G:H2'	46:18S:282:C:C6	2.54	0.42
46:18S:387:A:H2'	46:18S:402:C:H5"	2.01	0.42
46:18S:600:U:H2'	46:18S:601:A:H8	1.84	0.42
46:18S:1428:G:H3'	46:18S:1428:G:OP2	2.19	0.42
46:18S:1525:A:H2'	46:18S:1526:A:H8	1.80	0.42
1:25S:1110:U:H2'	1:25S:1111:U:C6	2.54	0.42
1:25S:1741:A:H3'	1:25S:1742:U:H6	1.84	0.42
1:25S:1787:A:H2'	1:25S:1788:C:O4'	2.19	0.42
1:25S:2567:C:C4	1:25S:2575:G:C6	3.07	0.42
1:25S:2811:A:H2'	1:25S:2812:C:C6	2.54	0.42
1:25S:2933:A:OP1	1:25S:3015:G:H4'	2.19	0.42
2:AB:11:A:H4'	2:AB:13:A:C8	2.55	0.42
46:18S:345:U:H1'	46:18S:346:G:C8	2.55	0.42
46:18S:845:G:H2'	46:18S:846:G:C8	2.54	0.42
46:18S:903:U:O2'	46:18S:905:A:N7	2.48	0.42
46:18S:956:C:C2	46:18S:957:G:C8	3.08	0.42
46:18S:1424:A:H2'	46:18S:1425:A:O4'	2.19	0.42
1:25S:177:U:H3	1:25S:242:C:H42	1.66	0.42
1:25S:820:A:H2'	1:25S:821:U:C6	2.55	0.42
1:25S:1135:A:C6	1:25S:1136:A:N7	2.88	0.42
1:25S:1611:G:H2'	1:25S:1612:A:O4'	2.19	0.42
1:25S:2205:U:OP1	1:25S:2205:U:H2'	2.19	0.42
1:25S:2714:G:H4'	1:25S:2715:A:C5'	2.49	0.42
1:25S:3077:A:N6	1:25S:3080:G:C5	2.88	0.42
2:AB:92:A:C5	2:AB:93:C:H1'	2.55	0.42
3:58S:52:A:C5	3:58S:53:A:C8	3.07	0.42
46:18S:301:A:O2'	46:18S:334:G:O6	2.28	0.42
46:18S:350:U:OP1	46:18S:351:C:O2'	2.32	0.42
46:18S:1176:G:N3	46:18S:1195:C:O2'	2.42	0.42
46:18S:1231:U:H2'	46:18S:1232:U:C6	2.55	0.42
46:18S:1510:U:H2'	46:18S:1511:U:O4'	2.20	0.42
46:18S:1585:U:H2'	46:18S:1586:A:H8	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:653:A:O4'	1:25S:2360:C:H2'	2.19	0.42
1:25S:790:U:H2'	1:25S:791:A:H8	1.82	0.42
1:25S:943:U:O2	1:25S:1431:G:H3'	2.20	0.42
1:25S:946:U:H2'	1:25S:947:G:H8	1.84	0.42
1:25S:1192:C:H6	1:25S:1192:C:H2'	1.59	0.42
1:25S:2148:U:H2'	1:25S:2149:A:C5	2.54	0.42
1:25S:2160:G:H8	1:25S:2160:G:O5'	2.02	0.42
1:25S:2709:C:H2'	1:25S:2710:C:C6	2.55	0.42
1:25S:2993:G:H2'	1:25S:3142:A:N6	2.35	0.42
1:25S:3107:U:H2'	1:25S:3108:G:H8	1.83	0.42
1:25S:3298:C:C4	1:25S:3299:A:N7	2.88	0.42
2:AB:4:U:H2'	2:AB:5:G:H8	1.85	0.42
3:58S:63:G:OP1	3:58S:90:U:H5'	2.19	0.42
46:18S:94:U:H2'	46:18S:95:G:O4'	2.19	0.42
46:18S:638:U:H4'	46:18S:639:U:OP2	2.20	0.42
46:18S:819:G:C5	46:18S:853:G:C2	3.08	0.42
46:18S:857:U:H2'	46:18S:858:G:H5'	2.01	0.42
46:18S:995:A:C2	46:18S:1010:C:C2	3.08	0.42
46:18S:1058:U:O3'	46:18S:1059:U:H3'	2.19	0.42
46:18S:1236:A:N3	46:18S:1237:G:C8	2.88	0.42
46:18S:1264:G:H2'	46:18S:1265:G:O4'	2.20	0.42
46:18S:1452:U:H2'	46:18S:1453:G:C8	2.54	0.42
1:25S:29:C:H4'	1:25S:62:A:H4'	2.02	0.42
1:25S:283:G:H3'	1:25S:283:G:N3	2.35	0.42
1:25S:644:G:H2'	1:25S:2372:A:C5	2.54	0.42
1:25S:755:A:C6	1:25S:756:U:C4	3.08	0.42
1:25S:873:C:H5"	1:25S:874:U:O5'	2.19	0.42
1:25S:917:A:H2'	1:25S:918:C:C6	2.55	0.42
1:25S:1237:G:C8	1:25S:1263:A:C8	3.08	0.42
1:25S:2535:A:C6	1:25S:2536:A:C6	3.07	0.42
1:25S:2675:C:C4	1:25S:2676:A:C5	3.07	0.42
1:25S:2946:A:H2'	1:25S:2982:A:N7	2.35	0.42
1:25S:3353:G:N3	1:25S:3353:G:O4'	2.52	0.42
3:58S:43:A:H2'	3:58S:44:A:C8	2.54	0.42
46:18S:263:C:H4'	46:18S:292:U:H5'	2.01	0.42
46:18S:482:U:C2	46:18S:483:A:C8	3.08	0.42
46:18S:1395:G:H8	46:18S:1395:G:O5'	2.03	0.42
46:18S:1511:U:C2	46:18S:1512:G:N7	2.88	0.42
46:18S:1585:U:C2	46:18S:1611:A:H2	2.38	0.42
46:18S:1750:A:H2'	46:18S:1751:C:O4'	2.20	0.42
1:25S:279:U:H2'	1:25S:280:U:H6	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:967:A:C4	1:25S:968:G:C8	3.07	0.42
1:25S:1119:C:H2'	1:25S:1120:A:H8	1.84	0.42
1:25S:1915:A:H2'	1:25S:1916:U:H6	1.85	0.42
1:25S:2597:U:H2'	1:25S:2598:G:H8	1.84	0.42
1:25S:2634:U:C2	1:25S:2645:G:C6	3.07	0.42
1:25S:3015:G:H2'	1:25S:3016:A:H8	1.83	0.42
1:25S:3065:G:H2'	1:25S:3066:U:H6	1.85	0.42
1:25S:3324:C:C2	1:25S:3325:G:C8	3.08	0.42
3:58S:27:U:H2'	3:58S:28:C:H6	1.85	0.42
46:18S:1265:G:H2'	46:18S:1266:U:O4'	2.19	0.42
46:18S:1404:C:O5'	46:18S:1404:C:H6	2.03	0.42
46:18S:1603:U:H2'	46:18S:1604:U:C6	2.55	0.42
1:25S:26:A:C5	1:25S:27:C:C5	3.08	0.41
1:25S:1700:G:H2'	1:25S:1701:C:H6	1.84	0.41
1:25S:1841:A:C6	1:25S:1848:G:C2	3.08	0.41
1:25S:2343:C:H2'	1:25S:2344:U:H6	1.85	0.41
1:25S:3080:G:H2'	1:25S:3081:C:H6	1.85	0.41
46:18S:38:C:C2'	46:18S:39:A:H5'	2.49	0.41
46:18S:648:G:H2'	46:18S:648:G:N3	2.35	0.41
46:18S:1045:C:C2	46:18S:1074:G:N2	2.87	0.41
46:18S:1498:G:N1	46:18S:1499:G:N7	2.68	0.41
46:18S:1738:U:H2'	46:18S:1739:C:C6	2.54	0.41
1:25S:156:G:O2'	1:25S:157:A:H4'	2.20	0.41
1:25S:1038:C:H2'	1:25S:1039:U:C6	2.55	0.41
1:25S:1349:G:H5"	1:25S:1350:A:OP1	2.20	0.41
1:25S:1662:G:H2'	1:25S:1663:C:C6	2.55	0.41
1:25S:1681:U:H2'	1:25S:1682:U:O4'	2.20	0.41
1:25S:2676:A:C6	1:25S:2680:A:N7	2.88	0.41
1:25S:2676:A:N1	1:25S:2680:A:H8	2.18	0.41
1:25S:2840:C:N4	1:25S:2845:A:O2'	2.45	0.41
1:25S:3021:A:N1	1:25S:3032:A:H5"	2.35	0.41
1:25S:3042:U:OP2	1:25S:3092:C:N4	2.41	0.41
1:25S:3045:G:H2'	1:25S:3046:A:O4'	2.20	0.41
1:25S:3100:U:O2'	1:25S:3101:G:H5"	2.19	0.41
1:25S:3365:U:H2'	1:25S:3366:G:C8	2.55	0.41
46:18S:179:A:N6	46:18S:180:A:N3	2.68	0.41
46:18S:201:G:H2'	46:18S:202:A:C8	2.55	0.41
46:18S:887:A:H2	46:18S:925:G:H22	1.68	0.41
46:18S:1127:G:C5	46:18S:1128:C:C5	3.08	0.41
46:18S:1719:A:H2'	46:18S:1720:G:O4'	2.20	0.41
1:25S:333:G:H2'	1:25S:334:A:O4'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:423:A:H2'	1:25S:424:G:C8	2.55	0.41
1:25S:593:C:H2'	1:25S:594:U:H5'	2.02	0.41
1:25S:1354:G:H8	1:25S:1354:G:O5'	2.02	0.41
1:25S:1432:C:O2'	1:25S:1433:A:H3'	2.20	0.41
1:25S:1584:U:H2'	1:25S:1585:C:C6	2.56	0.41
1:25S:1914:G:C6	1:25S:1915:A:C5	3.08	0.41
1:25S:2292:U:H2'	1:25S:2293:C:C6	2.54	0.41
1:25S:2732:G:H5'	1:25S:2761:G:H5"	2.02	0.41
1:25S:3015:G:H2'	1:25S:3016:A:C8	2.55	0.41
3:58S:127:U:C2'	3:58S:128:U:H5'	2.50	0.41
46:18S:35:U:H2'	46:18S:36:C:C6	2.55	0.41
46:18S:482:U:C2	46:18S:483:A:N7	2.87	0.41
46:18S:627:C:H2'	46:18S:628:G:O4'	2.19	0.41
46:18S:778:G:N1	46:18S:783:G:C6	2.88	0.41
46:18S:1283:U:OP2	46:18S:1284:C:O2'	2.31	0.41
46:18S:1398:U:HO2'	46:18S:1399:C:H6	1.68	0.41
1:25S:105:C:H2'	1:25S:106:A:H8	1.84	0.41
1:25S:225:C:H2'	1:25S:226:C:O4'	2.20	0.41
1:25S:532:A:O2'	1:25S:533:A:H8	2.03	0.41
1:25S:1195:A:O2'	1:25S:1320:C:OP1	2.30	0.41
1:25S:2185:G:O2'	1:25S:2314:U:OP2	2.34	0.41
1:25S:2330:C:H2'	1:25S:2331:C:H6	1.85	0.41
1:25S:2530:G:C6	1:25S:2531:C:C4	3.08	0.41
1:25S:3095:U:H2'	1:25S:3096:C:C6	2.56	0.41
2:AB:81:U:H2'	2:AB:82:G:C8	2.55	0.41
46:18S:220:A:N6	46:18S:841:U:N3	2.68	0.41
46:18S:610:G:H2'	46:18S:614:C:C5	2.55	0.41
46:18S:1388:A:H4'	46:18S:1389:C:O5'	2.20	0.41
46:18S:1524:A:C6	46:18S:1525:A:C6	3.08	0.41
46:18S:1552:U:H2'	46:18S:1553:G:O4'	2.21	0.41
1:25S:128:G:H2'	1:25S:129:U:O4'	2.21	0.41
1:25S:526:C:C2	1:25S:567:G:N2	2.89	0.41
1:25S:1071:U:H1'	1:25S:1072:G:C8	2.55	0.41
1:25S:1444:G:H2'	1:25S:1445:U:O4'	2.20	0.41
1:25S:1522:U:H4'	1:25S:1604:G:O2'	2.21	0.41
1:25S:1523:U:OP1	1:25S:1607:U:N3	2.51	0.41
1:25S:2155:G:H2'	1:25S:2156:C:C6	2.55	0.41
1:25S:2166:A:H2'	1:25S:2167:A:C8	2.55	0.41
1:25S:2529:A:C4	1:25S:2530:G:C8	3.08	0.41
1:25S:2821:C:O2	1:25S:2821:C:H2'	2.21	0.41
1:25S:2857:C:H2'	1:25S:2858:U:H6	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:58S:48:A:O2'	3:58S:51:G:N2	2.54	0.41
46:18S:427:C:C4	46:18S:428:A:N7	2.89	0.41
46:18S:1348:A:N1	46:18S:1349:G:C6	2.88	0.41
1:25S:238:A:H2'	1:25S:239:G:O4'	2.19	0.41
1:25S:306:A:N6	1:25S:2784:G:C2	2.88	0.41
1:25S:566:G:H2'	1:25S:567:G:C8	2.56	0.41
1:25S:1259:A:H2	1:25S:1281:G:H1'	1.85	0.41
1:25S:1561:G:H1'	1:25S:1562:C:H5'	2.01	0.41
1:25S:2105:G:H2'	1:25S:2106:A:C8	2.56	0.41
1:25S:2193:U:H5'	1:25S:2194:G:H5'	2.02	0.41
1:25S:2546:C:H3'	1:25S:2547:A:H8	1.85	0.41
1:25S:2610:G:H2'	1:25S:2611:U:O4'	2.21	0.41
2:AB:90:U:H2'	2:AB:91:G:O4'	2.21	0.41
46:18S:898:A:C2	46:18S:915:A:C5	3.09	0.41
46:18S:1081:A:H2'	46:18S:1083:G:N7	2.35	0.41
46:18S:1649:G:H2'	46:18S:1650:U:C6	2.55	0.41
46:18S:1720:G:H8	46:18S:1720:G:OP2	2.04	0.41
1:25S:60:A:H2'	1:25S:61:A:H8	1.86	0.41
1:25S:99:A:H1'	1:25S:281:G:C5	2.56	0.41
1:25S:422:A:C4	1:25S:2363:A:H4'	2.55	0.41
1:25S:956:U:H2'	1:25S:957:C:C6	2.56	0.41
1:25S:1116:G:N2	1:25S:2817:A:O4'	2.54	0.41
1:25S:1357:G:H2'	1:25S:1358:C:C6	2.56	0.41
1:25S:1439:U:H2'	1:25S:1440:G:H8	1.81	0.41
1:25S:1820:U:H4'	1:25S:1821:U:O5'	2.19	0.41
1:25S:2773:C:C2	1:25S:2774:C:C5	3.08	0.41
1:25S:3080:G:H2'	1:25S:3081:C:C6	2.56	0.41
3:58S:140:G:H2'	3:58S:141:C:H6	1.86	0.41
46:18S:19:A:H2'	46:18S:20:G:O4'	2.21	0.41
46:18S:740:A:H5'	46:18S:741:C:OP2	2.21	0.41
46:18S:795:U:O2	46:18S:795:U:H2'	2.20	0.41
46:18S:1138:A:H2'	46:18S:1139:A:C8	2.56	0.41
1:25S:63:A:H2'	1:25S:64:G:C8	2.55	0.41
1:25S:109:A:H4'	1:25S:110:G:OP1	2.21	0.41
1:25S:506:U:H2'	1:25S:507:U:O4'	2.21	0.41
1:25S:926:A:C4	1:25S:927:C:C5	3.09	0.41
1:25S:2535:A:O2'	1:25S:2536:A:H5'	2.21	0.41
1:25S:2565:U:H2'	1:25S:2566:C:C6	2.56	0.41
1:25S:2759:U:O3'	1:25S:2760:C:H6	2.03	0.41
1:25S:3314:A:H8	1:25S:3314:A:O5'	2.04	0.41
46:18S:4:C:O2	46:18S:4:C:H2'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:18S:615:A:H2'	46:18S:616:G:H5'	2.02	0.41
46:18S:875:G:H2'	46:18S:877:G:OP1	2.20	0.41
46:18S:1126:G:C2	46:18S:1127:G:C8	3.09	0.41
46:18S:1227:A:H5"	46:18S:1256:A:N6	2.35	0.41
46:18S:1369:U:H2'	46:18S:1372:U:C5	2.56	0.41
1:25S:114:A:N1	1:25S:266:A:O2'	2.44	0.41
1:25S:189:G:P	1:25S:189:G:H3'	2.60	0.41
1:25S:242:C:C2	1:25S:243:G:C8	3.09	0.41
1:25S:276:U:H2'	1:25S:277:G:C8	2.55	0.41
1:25S:497:C:H2'	1:25S:498:A:C8	2.56	0.41
1:25S:574:U:H2'	1:25S:575:G:O4'	2.21	0.41
1:25S:644:G:H2'	1:25S:2372:A:N7	2.35	0.41
1:25S:664:U:H3	1:25S:798:G:H1	1.69	0.41
1:25S:849:C:O2'	1:25S:850:U:H5'	2.20	0.41
1:25S:912:G:C2	1:25S:917:A:N6	2.88	0.41
1:25S:958:C:H5'	1:25S:2799:A:H2'	2.02	0.41
1:25S:1225:A:C4	1:25S:1226:G:C8	3.09	0.41
1:25S:1232:C:O2	1:25S:1232:C:H2'	2.19	0.41
1:25S:1234:G:OP2	1:25S:1235:U:H3'	2.20	0.41
1:25S:1254:C:H2'	1:25S:1255:C:O4'	2.20	0.41
1:25S:1414:G:C6	1:25S:1415:U:C4	3.09	0.41
1:25S:1574:C:H2'	1:25S:1575:A:H5'	2.02	0.41
1:25S:1658:G:H2'	1:25S:1659:U:C6	2.55	0.41
1:25S:1683:A:C5	1:25S:1684:U:C5	3.09	0.41
1:25S:1709:C:C2	1:25S:1710:C:C5	3.09	0.41
1:25S:1868:G:C5	1:25S:1869:C:C5	3.08	0.41
1:25S:1911:A:C2	1:25S:2122:G:C8	3.08	0.41
1:25S:2129:U:H2'	1:25S:2130:G:C8	2.55	0.41
1:25S:2340:U:O2'	1:25S:2341:A:H5'	2.20	0.41
1:25S:2486:A:H2'	1:25S:2487:U:O4'	2.20	0.41
1:25S:2528:G:H2'	1:25S:2529:A:O4'	2.20	0.41
1:25S:2780:A:H2'	1:25S:2781:U:C6	2.56	0.41
1:25S:3380:U:H2'	1:25S:3381:U:C6	2.56	0.41
1:25S:3389:U:H6	1:25S:3389:U:OP2	2.03	0.41
46:18S:41:A:H2'	46:18S:438:A:H62	1.86	0.41
46:18S:374:U:O2'	46:18S:603:U:OP1	2.35	0.41
46:18S:696:C:O3'	46:18S:697:C:H2'	2.21	0.41
46:18S:1180:C:H2'	46:18S:1181:U:C6	2.55	0.41
46:18S:1641:C:H2'	46:18S:1642:G:C8	2.56	0.41
46:18S:1673:G:C5	46:18S:1674:C:C5	3.09	0.41
46:18S:1677:C:C2	46:18S:1725:U:C2	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:1239:C:C2	1:25S:1250:G:C2	3.08	0.41
1:25S:1273:A:H3'	1:25S:1274:A:C8	2.56	0.41
1:25S:1397:C:H2'	1:25S:1398:U:O4'	2.21	0.41
1:25S:1920:U:H1'	1:25S:1933:A:C6	2.56	0.41
1:25S:3138:U:C2	1:25S:3139:A:C8	3.09	0.41
1:25S:3246:G:H4'	1:25S:3247:G:O4'	2.21	0.41
3:58S:4:C:H2'	3:58S:5:U:C6	2.56	0.41
46:18S:590:C:H2'	46:18S:591:A:H8	1.83	0.41
46:18S:814:A:O2'	46:18S:815:G:H3'	2.21	0.41
46:18S:915:A:H2'	46:18S:915:A:N3	2.36	0.41
46:18S:940:A:H2'	46:18S:941:A:H8	1.84	0.41
46:18S:1360:A:H8	46:18S:1360:A:O5'	2.04	0.41
1:25S:422:A:N3	1:25S:2363:A:H4'	2.35	0.40
1:25S:718:G:C2	1:25S:721:G:H1'	2.56	0.40
1:25S:1155:C:H2'	1:25S:1156:C:C6	2.56	0.40
1:25S:1440:G:H2'	1:25S:1441:G:O4'	2.21	0.40
1:25S:1630:U:H5"	1:25S:1813:A:N6	2.35	0.40
1:25S:1744:G:C6	1:25S:1745:C:N4	2.89	0.40
1:25S:1920:U:O2	1:25S:1932:A:H5"	2.20	0.40
1:25S:2298:U:O4	1:25S:2923:U:H5	2.04	0.40
1:25S:2562:A:C4	1:25S:2563:G:C8	3.09	0.40
1:25S:2845:A:C2'	1:25S:2846:U:H5'	2.51	0.40
1:25S:2899:C:O2'	1:25S:2901:G:OP2	2.29	0.40
1:25S:3033:A:H2'	1:25S:3034:C:H6	1.86	0.40
1:25S:3113:A:N1	1:25S:3122:A:C8	2.89	0.40
1:25S:3338:C:H2'	1:25S:3339:A:O4'	2.21	0.40
2:AB:72:A:O2'	2:AB:74:C:OP1	2.29	0.40
46:18S:400:A:H4'	46:18S:401:A:H5"	2.02	0.40
46:18S:858:G:O2'	46:18S:859:A:OP1	2.35	0.40
46:18S:859:A:OP1	46:18S:859:A:H4'	2.20	0.40
46:18S:1109:G:H1	46:18S:1136:U:H3	1.69	0.40
46:18S:1245:G:H1	46:18S:1250:U:H3	1.69	0.40
1:25S:138:U:H2'	1:25S:139:G:H8	1.83	0.40
1:25S:339:C:OP1	1:25S:1380:G:O2'	2.37	0.40
1:25S:797:U:H2'	1:25S:798:G:C8	2.56	0.40
1:25S:898:U:H2'	1:25S:899:U:O4'	2.22	0.40
1:25S:1564:U:C2'	1:25S:1565:G:H8	2.30	0.40
1:25S:1624:G:C4	1:25S:1625:A:C8	3.09	0.40
1:25S:2196:C:O2'	1:25S:2270:A:H1'	2.20	0.40
1:25S:2221:G:N1	1:25S:2223:A:H5"	2.37	0.40
1:25S:2275:A:H61	1:25S:2311:G:H1'	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:2512:C:O2'	1:25S:2513:U:H5'	2.21	0.40
1:25S:2604:U:H2'	1:25S:2605:G:O4'	2.22	0.40
1:25S:2719:U:H2'	1:25S:2720:G:C8	2.51	0.40
3:58S:42:G:C2	3:58S:43:A:C8	3.10	0.40
46:18S:393:C:H2'	46:18S:394:C:C6	2.56	0.40
46:18S:884:A:H2'	46:18S:885:G:C8	2.57	0.40
46:18S:1138:A:H2'	46:18S:1139:A:H8	1.86	0.40
46:18S:1536:G:C6	46:18S:1538:U:H1'	2.56	0.40
46:18S:1536:G:C2	46:18S:1538:U:C2	3.09	0.40
46:18S:1789:G:H2'	46:18S:1790:A:H8	1.85	0.40
1:25S:172:G:N1	1:25S:247:C:N3	2.70	0.40
1:25S:523:A:N6	1:25S:570:A:C2	2.90	0.40
1:25S:811:U:H2'	1:25S:812:G:C8	2.56	0.40
1:25S:1104:G:H2'	1:25S:1105:A:H8	1.87	0.40
1:25S:1132:C:H2'	1:25S:1133:A:H8	1.85	0.40
1:25S:1798:A:H2'	1:25S:1799:A:C8	2.56	0.40
1:25S:2245:C:H2'	1:25S:2246:G:O4'	2.21	0.40
1:25S:2344:U:C2	1:25S:2345:A:N7	2.89	0.40
1:25S:2400:G:N7	1:25S:2401:A:N6	2.70	0.40
2:AB:43:U:C4	2:AB:44:C:C5	3.10	0.40
46:18S:460:A:H3'	46:18S:461:G:C8	2.54	0.40
46:18S:501:U:H2'	46:18S:502:U:C6	2.57	0.40
46:18S:576:G:H5"	46:18S:577:G:OP2	2.21	0.40
46:18S:614:C:H2'	46:18S:615:A:H8	1.86	0.40
46:18S:685:A:H2'	46:18S:686:C:C6	2.55	0.40
1:25S:173:G:H1	1:25S:245:U:H3	1.68	0.40
1:25S:210:U:O2	1:25S:230:U:H4'	2.22	0.40
1:25S:528:U:H2'	1:25S:529:A:C8	2.57	0.40
1:25S:571:U:H2'	1:25S:572:A:H8	1.87	0.40
1:25S:1121:U:C4	1:25S:1122:U:C4	3.09	0.40
1:25S:2110:G:O2'	1:25S:2111:G:H5"	2.20	0.40
1:25S:2186:U:H2'	1:25S:2187:G:O4'	2.20	0.40
1:25S:2274:U:H2'	1:25S:2275:A:C8	2.57	0.40
1:25S:2306:C:H4'	1:25S:2307:G:O5'	2.21	0.40
1:25S:2917:G:C6	1:25S:2930:A:C2	3.09	0.40
1:25S:3242:G:O4'	1:25S:3245:A:H1'	2.21	0.40
46:18S:1291:G:H8	46:18S:1291:G:O5'	2.04	0.40
1:25S:18:G:N2	3:58S:142:C:C2	2.89	0.40
1:25S:187:A:H2'	1:25S:188:U:C6	2.56	0.40
1:25S:1046:A:H2'	1:25S:1049:C:C5	2.57	0.40
1:25S:1088:U:H3'	1:25S:1089:G:C8	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25S:1138:U:H2'	1:25S:1139:G:C8	2.57	0.40
1:25S:2572:C:H3'	1:25S:2573:G:C4'	2.51	0.40
1:25S:2657:A:C2	1:25S:2694:A:C8	3.10	0.40
3:58S:91:C:H2'	3:58S:92:A:O4'	2.21	0.40
46:18S:208:U:H2'	46:18S:209:U:H6	1.87	0.40
46:18S:1195:C:H5"	46:18S:1197:C:C6	2.57	0.40
46:18S:1291:G:N2	46:18S:1324:G:N2	2.64	0.40
46:18S:1308:G:H2'	46:18S:1309:C:C6	2.56	0.40
46:18S:1660:A:H2'	46:18S:1661:U:H6	1.85	0.40
46:18S:1692:G:H22	46:18S:1709:C:H1'	1.86	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:eL30:64:LYS:NZ	46:18S:273:G:O3'[3_455]	2.07	0.13

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	174/312 (56%)	127 (73%)	42 (24%)	5 (3%)	4 24
5	uL2	250/254 (98%)	230 (92%)	20 (8%)	0	100 100
6	uL3	384/387 (99%)	336 (88%)	47 (12%)	1 (0%)	41 76
7	uL4	359/362 (99%)	307 (86%)	50 (14%)	2 (1%)	25 64
8	uL18	294/297 (99%)	260 (88%)	33 (11%)	1 (0%)	41 76
9	eL6	152/176 (86%)	127 (84%)	25 (16%)	0	100 100
10	uL30	220/244 (90%)	199 (90%)	19 (9%)	2 (1%)	17 55
11	eL8	231/256 (90%)	200 (87%)	29 (13%)	2 (1%)	17 55

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
12	uL6	189/191 (99%)	162 (86%)	26 (14%)	1 (0%)	29 68
13	uL16	209/221 (95%)	185 (88%)	24 (12%)	0	100 100
14	uL5	167/174 (96%)	125 (75%)	37 (22%)	5 (3%)	4 24
15	eL13	191/199 (96%)	152 (80%)	34 (18%)	5 (3%)	5 27
16	eL14	134/138 (97%)	118 (88%)	16 (12%)	0	100 100
17	eL15	201/204 (98%)	173 (86%)	27 (13%)	1 (0%)	29 68
18	uL13	195/199 (98%)	182 (93%)	10 (5%)	3 (2%)	10 42
19	uL22	149/184 (81%)	134 (90%)	15 (10%)	0	100 100
20	eL18	183/186 (98%)	153 (84%)	30 (16%)	0	100 100
21	eL19	174/189 (92%)	157 (90%)	15 (9%)	2 (1%)	14 50
22	eL20	170/172 (99%)	155 (91%)	15 (9%)	0	100 100
23	eL21	157/160 (98%)	139 (88%)	17 (11%)	1 (1%)	25 64
24	eL22	95/121 (78%)	83 (87%)	12 (13%)	0	100 100
25	uL14	127/137 (93%)	122 (96%)	5 (4%)	0	100 100
26	eL24	61/155 (39%)	60 (98%)	1 (2%)	0	100 100
27	uL23	118/142 (83%)	94 (80%)	24 (20%)	0	100 100
28	uL24	124/127 (98%)	107 (86%)	17 (14%)	0	100 100
29	eL27	133/136 (98%)	110 (83%)	21 (16%)	2 (2%)	10 42
30	uL15	146/149 (98%)	127 (87%)	16 (11%)	3 (2%)	7 33
31	eL29	56/59 (95%)	52 (93%)	4 (7%)	0	100 100
32	eL30	95/105 (90%)	86 (90%)	8 (8%)	1 (1%)	14 50
33	eL31	107/113 (95%)	93 (87%)	13 (12%)	1 (1%)	17 55
34	eL32	125/130 (96%)	103 (82%)	20 (16%)	2 (2%)	9 40
35	eL33	104/107 (97%)	99 (95%)	4 (4%)	1 (1%)	15 53
36	eL34	107/121 (88%)	101 (94%)	6 (6%)	0	100 100
37	uL29	117/120 (98%)	101 (86%)	16 (14%)	0	100 100
38	eL36	97/100 (97%)	75 (77%)	20 (21%)	2 (2%)	7 33
39	eL37	82/88 (93%)	72 (88%)	9 (11%)	1 (1%)	13 48
40	eL38	75/78 (96%)	59 (79%)	15 (20%)	1 (1%)	12 45
41	eL39	48/51 (94%)	40 (83%)	8 (17%)	0	100 100
42	eL40	50/128 (39%)	48 (96%)	2 (4%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
43	eL41	23/25 (92%)	22 (96%)	1 (4%)	0	100	100
44	eL42	100/106 (94%)	77 (77%)	22 (22%)	1 (1%)	15	53
45	eL43	89/92 (97%)	82 (92%)	7 (8%)	0	100	100
47	uS2	204/252 (81%)	165 (81%)	38 (19%)	1 (0%)	29	68
48	eS1	210/255 (82%)	150 (71%)	54 (26%)	6 (3%)	4	24
49	uS5	215/254 (85%)	185 (86%)	28 (13%)	2 (1%)	17	55
50	uS3	177/240 (74%)	138 (78%)	36 (20%)	3 (2%)	9	39
51	eS4	256/261 (98%)	219 (86%)	34 (13%)	3 (1%)	13	48
52	uS7	204/225 (91%)	149 (73%)	52 (26%)	3 (2%)	10	42
53	eS6	217/236 (92%)	176 (81%)	34 (16%)	7 (3%)	4	22
54	eS7	182/190 (96%)	145 (80%)	34 (19%)	3 (2%)	9	40
55	eS8	180/200 (90%)	149 (83%)	29 (16%)	2 (1%)	14	50
56	uS4	183/197 (93%)	151 (82%)	28 (15%)	4 (2%)	6	31
57	eS10	29/105 (28%)	19 (66%)	9 (31%)	1 (3%)	3	20
58	uS17	140/156 (90%)	116 (83%)	22 (16%)	2 (1%)	11	43
59	uS15	148/151 (98%)	127 (86%)	20 (14%)	1 (1%)	22	60
60	uS11	125/137 (91%)	102 (82%)	22 (18%)	1 (1%)	19	57
61	uS19	85/142 (60%)	60 (71%)	23 (27%)	2 (2%)	6	29
62	uS9	134/143 (94%)	98 (73%)	32 (24%)	4 (3%)	4	24
63	eS17	119/136 (88%)	91 (76%)	26 (22%)	2 (2%)	9	39
64	uS13	143/146 (98%)	110 (77%)	26 (18%)	7 (5%)	2	13
65	eS19	141/144 (98%)	106 (75%)	35 (25%)	0	100	100
66	uS10	28/121 (23%)	25 (89%)	3 (11%)	0	100	100
67	eS21	85/87 (98%)	66 (78%)	19 (22%)	0	100	100
68	uS8	127/130 (98%)	119 (94%)	7 (6%)	1 (1%)	19	57
69	uS12	142/145 (98%)	129 (91%)	9 (6%)	4 (3%)	5	25
70	eS24	132/135 (98%)	117 (89%)	15 (11%)	0	100	100
71	eS25	68/108 (63%)	40 (59%)	25 (37%)	3 (4%)	2	15
72	eS26	92/119 (77%)	72 (78%)	16 (17%)	4 (4%)	2	15
73	eS27	77/82 (94%)	62 (80%)	14 (18%)	1 (1%)	12	45
74	eS28	61/67 (91%)	44 (72%)	17 (28%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
75	uS14	47/56 (84%)	42 (89%)	5 (11%)	0	100 100
76	eS30	51/63 (81%)	31 (61%)	18 (35%)	2 (4%)	3 17
77	RACK	316/319 (99%)	202 (64%)	111 (35%)	3 (1%)	17 55
78	eS31	32/152 (21%)	13 (41%)	17 (53%)	2 (6%)	1 7
79	eEF2	839/842 (100%)	717 (86%)	114 (14%)	8 (1%)	15 53
83	uL11	131/165 (79%)	97 (74%)	33 (25%)	1 (1%)	19 57
All	All	11582/13056 (89%)	9666 (84%)	1787 (15%)	129 (1%)	14 50

All (129) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	uL10	109	ALA
4	uL10	199	SER
7	uL4	339	LEU
10	uL30	159	GLN
15	eL13	63	VAL
18	uL13	111	PRO
29	eL27	102	GLU
30	uL15	24	LYS
30	uL15	78	LEU
30	uL15	117	ARG
48	eS1	54	LEU
49	uS5	40	LYS
53	eS6	148	SER
53	eS6	149	LYS
53	eS6	153	VAL
56	uS4	134	ILE
58	uS17	7	VAL
60	uS11	42	VAL
63	eS17	23	LYS
63	eS17	24	LEU
64	uS13	91	ASP
64	uS13	102	ALA
69	uS12	113	ALA
72	eS26	49	ALA
76	eS30	46	ASN
77	RACK	94	VAL
79	eEF2	676	ILE
83	uL11	143	VAL
12	uL6	22	SER

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Mol	Chain	Res	Type
14	uL5	54	VAL
14	uL5	55	ARG
14	uL5	92	ARG
15	eL13	5	LYS
15	eL13	77	LEU
18	uL13	110	PRO
38	eL36	98	ARG
48	eS1	63	GLY
50	uS3	148	LYS
51	eS4	194	THR
53	eS6	81	VAL
53	eS6	119	GLN
54	eS7	65	PRO
61	uS19	102	PHE
64	uS13	14	ILE
64	uS13	92	ILE
71	eS25	95	HIS
73	eS27	42	ASN
79	eEF2	675	PRO
79	eEF2	697	ALA
8	uL18	261	THR
14	uL5	111	ASP
17	eL15	95	GLN
23	eL21	19	PHE
29	eL27	101	PHE
35	eL33	59	VAL
47	uS2	28	ASN
49	uS5	248	SER
50	uS3	57	ASP
51	eS4	156	VAL
52	uS7	43	PHE
54	eS7	103	SER
54	eS7	107	ARG
55	eS8	11	ARG
56	uS4	162	SER
56	uS4	163	PRO
57	eS10	14	TYR
59	uS15	106	ARG
62	uS9	15	SER
64	uS13	61	LEU
64	uS13	103	ASN
64	uS13	145	ARG

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Mol	Chain	Res	Type
71	eS25	40	VAL
76	eS30	45	VAL
78	eS31	124	PRO
79	eEF2	50	LYS
79	eEF2	572	SER
79	eEF2	764	PRO
10	uL30	160	ARG
21	eL19	130	ASN
39	eL37	65	ARG
50	uS3	146	ARG
52	uS7	128	ASN
69	uS12	89	ASN
72	eS26	48	ALA
72	eS26	59	TYR
72	eS26	62	TYR
78	eS31	123	ASN
79	eEF2	263	ASP
11	eL8	40	VAL
14	uL5	116	TYR
15	eL13	62	THR
32	eL30	11	ASN
34	eL32	86	THR
40	eL38	33	LYS
48	eS1	55	LYS
48	eS1	158	SER
51	eS4	155	LYS
55	eS8	23	LYS
56	uS4	133	HIS
58	uS17	8	GLN
77	RACK	40	LYS
4	uL10	19	LEU
15	eL13	76	THR
21	eL19	131	ALA
38	eL36	35	ASN
48	eS1	35	PRO
53	eS6	152	ASP
61	uS19	18	ARG
62	uS9	50	GLU
69	uS12	41	SER
71	eS25	43	ASP
6	uL3	188	ILE
33	eL31	88	PRO

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Mol	Chain	Res	Type
48	eS1	210	ILE
68	uS8	67	GLY
69	uS12	68	ILE
77	RACK	67	ILE
79	eEF2	28	VAL
7	uL4	146	PRO
34	eL32	68	PRO
11	eL8	157	VAL
44	eL42	14	GLY
4	uL10	124	VAL
52	uS7	64	VAL
62	uS9	35	PRO
62	uS9	36	ILE
4	uL10	159	VAL
18	uL13	16	VAL
53	eS6	11	GLY

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	152/254 (60%)	142 (93%)	10 (7%)	16 49
5	uL2	193/196 (98%)	187 (97%)	6 (3%)	40 75
6	uL3	320/323 (99%)	301 (94%)	19 (6%)	19 54
7	uL4	288/289 (100%)	276 (96%)	12 (4%)	30 66
8	uL18	244/245 (100%)	226 (93%)	18 (7%)	13 44
9	eL6	134/153 (88%)	124 (92%)	10 (8%)	13 43
10	uL30	186/205 (91%)	174 (94%)	12 (6%)	17 50
11	eL8	187/208 (90%)	180 (96%)	7 (4%)	34 70
12	uL6	171/171 (100%)	164 (96%)	7 (4%)	30 67
13	uL16	183/187 (98%)	177 (97%)	6 (3%)	38 73
14	uL5	147/150 (98%)	135 (92%)	12 (8%)	11 39

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
15	eL13	154/159 (97%)	143 (93%)	11 (7%)	14 46
16	eL14	107/109 (98%)	96 (90%)	11 (10%)	7 28
17	eL15	175/176 (99%)	165 (94%)	10 (6%)	20 56
18	uL13	160/162 (99%)	156 (98%)	4 (2%)	47 79
19	uL22	122/146 (84%)	116 (95%)	6 (5%)	25 61
20	eL18	150/151 (99%)	147 (98%)	3 (2%)	55 83
21	eL19	143/154 (93%)	134 (94%)	9 (6%)	18 51
22	eL20	156/156 (100%)	147 (94%)	9 (6%)	20 55
23	eL21	136/137 (99%)	130 (96%)	6 (4%)	28 65
24	eL22	84/107 (78%)	82 (98%)	2 (2%)	49 79
25	uL14	101/105 (96%)	97 (96%)	4 (4%)	31 68
26	eL24	55/129 (43%)	51 (93%)	4 (7%)	14 44
27	uL23	104/118 (88%)	100 (96%)	4 (4%)	33 69
28	uL24	109/110 (99%)	101 (93%)	8 (7%)	14 44
29	eL27	115/116 (99%)	111 (96%)	4 (4%)	36 71
30	uL15	118/119 (99%)	112 (95%)	6 (5%)	24 60
31	eL29	46/47 (98%)	44 (96%)	2 (4%)	29 66
32	eL30	81/88 (92%)	78 (96%)	3 (4%)	34 70
33	eL31	94/97 (97%)	92 (98%)	2 (2%)	53 82
34	eL32	109/111 (98%)	108 (99%)	1 (1%)	78 92
35	eL33	90/91 (99%)	84 (93%)	6 (7%)	16 49
36	eL34	94/103 (91%)	91 (97%)	3 (3%)	39 74
37	uL29	104/105 (99%)	102 (98%)	2 (2%)	57 84
38	eL36	81/82 (99%)	78 (96%)	3 (4%)	34 70
39	eL37	69/71 (97%)	66 (96%)	3 (4%)	29 66
40	eL38	68/69 (99%)	60 (88%)	8 (12%)	5 22
41	eL39	45/46 (98%)	41 (91%)	4 (9%)	9 35
42	eL40	47/116 (40%)	44 (94%)	3 (6%)	17 51
43	eL41	23/23 (100%)	20 (87%)	3 (13%)	4 19
44	eL42	87/91 (96%)	82 (94%)	5 (6%)	20 56
45	eL43	71/72 (99%)	67 (94%)	4 (6%)	21 56

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
47	uS2	164/210 (78%)	159 (97%)	5 (3%)	41 75
48	eS1	189/224 (84%)	175 (93%)	14 (7%)	13 44
49	uS5	176/205 (86%)	168 (96%)	8 (4%)	27 64
50	uS3	145/195 (74%)	132 (91%)	13 (9%)	9 35
51	eS4	220/222 (99%)	207 (94%)	13 (6%)	19 54
52	uS7	173/191 (91%)	163 (94%)	10 (6%)	20 55
53	eS6	188/201 (94%)	175 (93%)	13 (7%)	15 48
54	eS7	165/170 (97%)	154 (93%)	11 (7%)	16 49
55	eS8	146/161 (91%)	136 (93%)	10 (7%)	16 48
56	uS4	158/166 (95%)	151 (96%)	7 (4%)	28 65
57	eS10	32/98 (33%)	30 (94%)	2 (6%)	18 51
58	uS17	127/137 (93%)	123 (97%)	4 (3%)	40 75
59	uS15	127/128 (99%)	122 (96%)	5 (4%)	32 69
60	uS11	81/105 (77%)	77 (95%)	4 (5%)	25 61
61	uS19	77/118 (65%)	67 (87%)	10 (13%)	4 19
62	uS9	113/119 (95%)	104 (92%)	9 (8%)	12 40
63	eS17	105/124 (85%)	97 (92%)	8 (8%)	13 43
64	uS13	128/129 (99%)	121 (94%)	7 (6%)	21 57
65	eS19	115/116 (99%)	107 (93%)	8 (7%)	15 47
66	uS10	28/114 (25%)	28 (100%)	0	100 100
67	eS21	74/74 (100%)	69 (93%)	5 (7%)	16 48
68	uS8	110/111 (99%)	107 (97%)	3 (3%)	44 77
69	uS12	119/120 (99%)	115 (97%)	4 (3%)	37 72
70	eS24	112/113 (99%)	102 (91%)	10 (9%)	9 35
71	eS25	61/89 (68%)	56 (92%)	5 (8%)	11 39
72	eS26	81/101 (80%)	80 (99%)	1 (1%)	71 90
73	eS27	68/71 (96%)	65 (96%)	3 (4%)	28 65
74	eS28	56/60 (93%)	52 (93%)	4 (7%)	14 46
75	uS14	43/49 (88%)	36 (84%)	7 (16%)	2 11
76	eS30	46/54 (85%)	42 (91%)	4 (9%)	10 37
77	RACK	259/262 (99%)	241 (93%)	18 (7%)	15 48

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
78	eS31	30/135 (22%)	28 (93%)	2 (7%)	16 49
79	eEF2	714/714 (100%)	680 (95%)	34 (5%)	25 62
All	All	9733/10833 (90%)	9200 (94%)	533 (6%)	21 57

All (533) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	uL10	8	LYS
4	uL10	14	LYS
4	uL10	16	ARG
4	uL10	24	SER
4	uL10	25	LEU
4	uL10	34	SER
4	uL10	61	ARG
4	uL10	86	PHE
4	uL10	179	SER
4	uL10	181	PHE
5	uL2	42	ARG
5	uL2	46	LYS
5	uL2	64	ARG
5	uL2	160	SER
5	uL2	195	SER
5	uL2	247	ARG
6	uL3	2	SER
6	uL3	10	ARG
6	uL3	30	LYS
6	uL3	36	ASP
6	uL3	67	PHE
6	uL3	124	LYS
6	uL3	128	LYS
6	uL3	139	GLN
6	uL3	167	ARG
6	uL3	196	ARG
6	uL3	197	GLU
6	uL3	206	ASP
6	uL3	222	LYS
6	uL3	226	PHE
6	uL3	272	TYR
6	uL3	320	ASP
6	uL3	332	ARG
6	uL3	367	LYS

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Mol	Chain	Res	Type
6	uL3	383	LEU
7	uL4	90	PHE
7	uL4	95	ARG
7	uL4	99	MET
7	uL4	120	TYR
7	uL4	144	LYS
7	uL4	156	LEU
7	uL4	170	LYS
7	uL4	193	LYS
7	uL4	247	PHE
7	uL4	292	SER
7	uL4	300	ARG
7	uL4	362	ASP
8	uL18	3	PHE
8	uL18	15	ARG
8	uL18	58	LYS
8	uL18	81	HIS
8	uL18	95	TRP
8	uL18	123	GLU
8	uL18	137	ASP
8	uL18	145	PHE
8	uL18	184	ASP
8	uL18	185	PHE
8	uL18	193	GLU
8	uL18	224	LYS
8	uL18	248	ARG
8	uL18	260	PHE
8	uL18	271	LYS
8	uL18	278	SER
8	uL18	285	ARG
8	uL18	296	GLN
9	eL6	20	LYS
9	eL6	30	LEU
9	eL6	43	LEU
9	eL6	46	ARG
9	eL6	100	LYS
9	eL6	133	GLU
9	eL6	138	GLN
9	eL6	143	LYS
9	eL6	151	LYS
9	eL6	164	SER
10	uL30	30	ARG

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Mol	Chain	Res	Type
10	uL30	33	ARG
10	uL30	38	LYS
10	uL30	40	LYS
10	uL30	47	ARG
10	uL30	88	ARG
10	uL30	107	ARG
10	uL30	158	LYS
10	uL30	175	LYS
10	uL30	187	GLU
10	uL30	199	ASN
10	uL30	208	SER
11	eL8	32	LYS
11	eL8	126	SER
11	eL8	128	LYS
11	eL8	149	LYS
11	eL8	224	ASP
11	eL8	227	ASP
11	eL8	252	ASN
12	uL6	36	LYS
12	uL6	92	TYR
12	uL6	106	LYS
12	uL6	130	ASP
12	uL6	170	LYS
12	uL6	177	ASP
12	uL6	190	ASP
13	uL16	29	SER
13	uL16	40	LYS
13	uL16	141	LYS
13	uL16	144	ASN
13	uL16	164	LYS
13	uL16	170	LYS
14	uL5	9	MET
14	uL5	34	SER
14	uL5	41	SER
14	uL5	51	ARG
14	uL5	57	PHE
14	uL5	72	ARG
14	uL5	84	LEU
14	uL5	94	ARG
14	uL5	116	TYR
14	uL5	153	LYS
14	uL5	156	LYS

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Mol	Chain	Res	Type
14	uL5	164	LYS
15	eL13	5	LYS
15	eL13	21	ARG
15	eL13	67	ARG
15	eL13	81	LYS
15	eL13	98	ASP
15	eL13	104	ARG
15	eL13	117	LYS
15	eL13	122	LYS
15	eL13	175	SER
15	eL13	180	ARG
15	eL13	188	ARG
16	eL14	4	ASP
16	eL14	12	TRP
16	eL14	41	GLN
16	eL14	77	ARG
16	eL14	83	LYS
16	eL14	91	CYS
16	eL14	93	LYS
16	eL14	102	LYS
16	eL14	117	ARG
16	eL14	121	MET
16	eL14	129	TYR
17	eL15	12	ARG
17	eL15	45	PRO
17	eL15	50	ARG
17	eL15	86	ASN
17	eL15	96	ARG
17	eL15	117	ASN
17	eL15	122	ASN
17	eL15	147	ARG
17	eL15	159	ARG
17	eL15	175	ASN
18	uL13	47	PHE
18	uL13	68	ARG
18	uL13	74	ARG
18	uL13	102	LEU
19	uL22	23	ARG
19	uL22	25	SER
19	uL22	46	LYS
19	uL22	47	TYR
19	uL22	61	ARG

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Mol	Chain	Res	Type
19	uL22	127	ARG
20	eL18	22	ASP
20	eL18	35	PHE
20	eL18	79	LYS
21	eL19	19	LYS
21	eL19	37	SER
21	eL19	70	LYS
21	eL19	80	LYS
21	eL19	98	ARG
21	eL19	151	ARG
21	eL19	153	LYS
21	eL19	170	ARG
21	eL19	172	ARG
22	eL20	18	SER
22	eL20	55	SER
22	eL20	80	ARG
22	eL20	90	MET
22	eL20	91	TYR
22	eL20	98	SER
22	eL20	118	PHE
22	eL20	122	HIS
22	eL20	167	ARG
23	eL21	26	HIS
23	eL21	65	TYR
23	eL21	102	ARG
23	eL21	110	LYS
23	eL21	136	ARG
23	eL21	142	SER
24	eL22	33	TYR
24	eL22	75	TYR
25	uL14	32	ARG
25	uL14	42	SER
25	uL14	45	ARG
25	uL14	120	LYS
26	eL24	1	MET
26	eL24	9	SER
26	eL24	36	SER
26	eL24	55	PHE
27	uL23	27	ARG
27	uL23	74	LYS
27	uL23	109	LYS
27	uL23	138	ARG

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Mol	Chain	Res	Type
28	uL24	5	SER
28	uL24	6	LEU
28	uL24	51	ARG
28	uL24	55	GLU
28	uL24	60	ARG
28	uL24	74	TYR
28	uL24	112	ASP
28	uL24	114	ASP
29	eL27	3	LYS
29	eL27	30	ASP
29	eL27	56	LYS
29	eL27	92	PHE
30	uL15	4	ARG
30	uL15	27	LYS
30	uL15	60	TYR
30	uL15	78	LEU
30	uL15	95	SER
30	uL15	96	LYS
31	eL29	22	LYS
31	eL29	27	TYR
32	eL30	63	SER
32	eL30	64	LYS
32	eL30	85	PHE
33	eL31	6	ASP
33	eL31	112	ASP
34	eL32	18	LYS
35	eL33	4	SER
35	eL33	15	SER
35	eL33	19	SER
35	eL33	63	LYS
35	eL33	67	MET
35	eL33	68	TRP
36	eL34	58	ARG
36	eL34	60	ARG
36	eL34	79	SER
37	uL29	94	LYS
37	uL29	107	LYS
38	eL36	45	ARG
38	eL36	60	LEU
38	eL36	84	LYS
39	eL37	22	CYS
39	eL37	65	ARG

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Mol	Chain	Res	Type
39	eL37	85	LYS
40	eL38	11	PHE
40	eL38	28	ASN
40	eL38	29	LYS
40	eL38	46	ARG
40	eL38	63	LYS
40	eL38	68	SER
40	eL38	74	LYS
40	eL38	76	ASN
41	eL39	5	LYS
41	eL39	20	ASN
41	eL39	37	TYR
41	eL39	41	ARG
42	eL40	87	SER
42	eL40	97	ARG
42	eL40	127	LEU
43	eL41	16	LYS
43	eL41	23	ARG
43	eL41	25	LYS
44	eL42	13	LYS
44	eL42	29	LYS
44	eL42	34	SER
44	eL42	53	GLN
44	eL42	97	LYS
45	eL43	4	ARG
45	eL43	60	CYS
45	eL43	72	SER
45	eL43	85	ARG
47	uS2	30	GLN
47	uS2	32	HIS
47	uS2	78	SER
47	uS2	119	ARG
47	uS2	198	MET
48	eS1	24	PHE
48	eS1	40	ASN
48	eS1	59	ASP
48	eS1	69	CYS
48	eS1	82	ARG
48	eS1	89	ASP
48	eS1	100	PHE
48	eS1	105	PHE
48	eS1	144	ARG

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Mol	Chain	Res	Type
48	eS1	166	LYS
48	eS1	169	SER
48	eS1	195	LYS
48	eS1	224	ASP
48	eS1	229	MET
49	uS5	66	PHE
49	uS5	106	ASP
49	uS5	116	LYS
49	uS5	119	LYS
49	uS5	148	LEU
49	uS5	153	SER
49	uS5	232	GLU
49	uS5	245	ASP
50	uS3	6	SER
50	uS3	51	ARG
50	uS3	56	GLN
50	uS3	74	GLN
50	uS3	76	ARG
50	uS3	101	GLN
50	uS3	107	PHE
50	uS3	143	ARG
50	uS3	151	LYS
50	uS3	156	PHE
50	uS3	159	HIS
50	uS3	173	ARG
50	uS3	189	MET
51	eS4	17	HIS
51	eS4	41	SER
51	eS4	49	ARG
51	eS4	51	ARG
51	eS4	68	ARG
51	eS4	69	HIS
51	eS4	158	ASP
51	eS4	200	ARG
51	eS4	206	ASP
51	eS4	213	SER
51	eS4	240	LYS
51	eS4	254	ARG
51	eS4	256	ARG
52	uS7	60	ASP
52	uS7	82	PHE
52	uS7	83	ARG

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Mol	Chain	Res	Type
52	uS7	84	LYS
52	uS7	165	LEU
52	uS7	166	ARG
52	uS7	169	ASN
52	uS7	188	LYS
52	uS7	208	SER
52	uS7	224	ASN
53	eS6	45	PHE
53	eS6	53	SER
53	eS6	85	ARG
53	eS6	95	LYS
53	eS6	115	LYS
53	eS6	116	LYS
53	eS6	132	ARG
53	eS6	150	GLU
53	eS6	152	ASP
53	eS6	164	LYS
53	eS6	169	TYR
53	eS6	184	LEU
53	eS6	189	HIS
54	eS7	24	PHE
54	eS7	35	LYS
54	eS7	58	LEU
54	eS7	71	HIS
54	eS7	72	LYS
54	eS7	77	LEU
54	eS7	85	PHE
54	eS7	104	ARG
54	eS7	107	ARG
54	eS7	127	GLU
54	eS7	141	ARG
55	eS8	9	HIS
55	eS8	18	ARG
55	eS8	20	GLN
55	eS8	21	PHE
55	eS8	25	ARG
55	eS8	42	ARG
55	eS8	109	PHE
55	eS8	146	ARG
55	eS8	179	CYS
55	eS8	200	LYS
56	uS4	10	LYS

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Mol	Chain	Res	Type
56	uS4	50	SER
56	uS4	74	ASN
56	uS4	95	TYR
56	uS4	115	LYS
56	uS4	138	LYS
56	uS4	164	PHE
57	eS10	16	PHE
57	eS10	66	TYR
58	uS17	32	LYS
58	uS17	67	ARG
58	uS17	132	SER
58	uS17	138	ASN
59	uS15	27	LYS
59	uS15	40	TYR
59	uS15	58	HIS
59	uS15	73	ARG
59	uS15	103	GLU
60	uS11	14	PHE
60	uS11	20	TYR
60	uS11	111	ARG
60	uS11	133	ARG
61	uS19	16	SER
61	uS19	32	ASP
61	uS19	45	PHE
61	uS19	57	MET
61	uS19	58	LYS
61	uS19	59	LYS
61	uS19	61	ARG
61	uS19	88	GLU
61	uS19	108	ARG
61	uS19	128	HIS
62	uS9	38	LEU
62	uS9	46	PHE
62	uS9	59	LYS
62	uS9	61	SER
62	uS9	92	TYR
62	uS9	95	LYS
62	uS9	98	ASP
62	uS9	127	LYS
62	uS9	139	GLN
63	eS17	5	ARG
63	eS17	28	PHE

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Mol	Chain	Res	Type
63	eS17	60	ARG
63	eS17	67	ARG
63	eS17	71	PHE
63	eS17	84	TYR
63	eS17	103	ASP
63	eS17	108	ASP
64	uS13	6	GLN
64	uS13	7	GLU
64	uS13	63	GLN
64	uS13	68	ARG
64	uS13	84	TRP
64	uS13	96	LYS
64	uS13	112	ASP
65	eS19	7	ARG
65	eS19	18	TYR
65	eS19	20	SER
65	eS19	24	ARG
65	eS19	33	TYR
65	eS19	60	SER
65	eS19	69	LYS
65	eS19	130	ARG
67	eS21	17	CYS
67	eS21	21	ASN
67	eS21	22	ARG
67	eS21	65	SER
67	eS21	71	ARG
68	uS8	31	SER
68	uS8	68	ARG
68	uS8	93	LEU
69	uS12	19	ARG
69	uS12	94	ASN
69	uS12	107	PHE
69	uS12	114	LYS
70	eS24	10	ARG
70	eS24	32	ARG
70	eS24	41	ARG
70	eS24	49	LYS
70	eS24	52	LYS
70	eS24	68	LYS
70	eS24	78	SER
70	eS24	98	GLU
70	eS24	105	ARG

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Mol	Chain	Res	Type
70	eS24	135	ASP
71	eS25	51	LEU
71	eS25	57	TYR
71	eS25	58	ARG
71	eS25	84	GLU
71	eS25	103	ARG
72	eS26	87	ARG
73	eS27	22	LYS
73	eS27	58	SER
73	eS27	64	CYS
74	eS28	11	LYS
74	eS28	22	ARG
74	eS28	37	SER
74	eS28	56	LEU
75	uS14	10	HIS
75	uS14	12	ARG
75	uS14	19	ARG
75	uS14	36	LEU
75	uS14	40	ARG
75	uS14	44	ARG
75	uS14	46	LYS
76	eS30	7	SER
76	eS30	29	LYS
76	eS30	31	LYS
76	eS30	43	ARG
77	RACK	37	SER
77	RACK	40	LYS
77	RACK	44	SER
77	RACK	45	TRP
77	RACK	53	LYS
77	RACK	73	LEU
77	RACK	79	TYR
77	RACK	87	LYS
77	RACK	109	ASP
77	RACK	121	MET
77	RACK	127	ARG
77	RACK	177	MET
77	RACK	189	GLU
77	RACK	229	LYS
77	RACK	232	TYR
77	RACK	241	PHE
77	RACK	261	LYS

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Mol	Chain	Res	Type
77	RACK	299	GLN
78	eS31	120	GLU
78	eS31	138	ARG
79	eEF2	1	MET
79	eEF2	32	LYS
79	eEF2	41	GLN
79	eEF2	56	PHE
79	eEF2	61	LYS
79	eEF2	87	LYS
79	eEF2	105	SER
79	eEF2	110	ASP
79	eEF2	171	LYS
79	eEF2	173	ASP
79	eEF2	233	PHE
79	eEF2	237	LYS
79	eEF2	240	MET
79	eEF2	247	ASP
79	eEF2	269	LEU
79	eEF2	327	PHE
79	eEF2	425	ASP
79	eEF2	426	LEU
79	eEF2	441	PHE
79	eEF2	483	PHE
79	eEF2	486	SER
79	eEF2	514	SER
79	eEF2	555	LYS
79	eEF2	569	SER
79	eEF2	585	ARG
79	eEF2	588	LEU
79	eEF2	621	ASP
79	eEF2	639	ASP
79	eEF2	651	LYS
79	eEF2	667	PHE
79	eEF2	687	ASN
79	eEF2	753	GLN
79	eEF2	802	SER
79	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

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	25S	3151/3396 (92%)	726 (23%)	22 (0%)
2	AB	120/121 (99%)	21 (17%)	1 (0%)
3	58S	157/158 (99%)	37 (23%)	1 (0%)
46	18S	1726/1798 (95%)	510 (29%)	23 (1%)
80	ASIT	75/76 (98%)	30 (40%)	2 (2%)
81	PSIT	76/77 (98%)	21 (27%)	0
82	mRNA	7/8 (87%)	3 (42%)	0
All	All	5312/5634 (94%)	1348 (25%)	49 (0%)

All (1348) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	25S	4	U
1	25S	6	A
1	25S	14	U
1	25S	17	G
1	25S	26	A
1	25S	30	G
1	25S	32	U
1	25S	40	A
1	25S	49	A
1	25S	59	G
1	25S	60	A
1	25S	65	A
1	25S	66	A
1	25S	75	G
1	25S	76	G
1	25S	92	G
1	25S	99	A
1	25S	106	A
1	25S	110	G
1	25S	111	C
1	25S	116	A
1	25S	117	U
1	25S	118	U
1	25S	120	G
1	25S	122	A
1	25S	123	A
1	25S	124	U
1	25S	135	C
1	25S	136	G
1	25S	140	C
1	25S	142	C

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Mol	Chain	Res	Type
1	25S	148	G
1	25S	154	U
1	25S	155	G
1	25S	156	G
1	25S	157	A
1	25S	161	G
1	25S	169	U
1	25S	170	G
1	25S	173	G
1	25S	175	C
1	25S	176	G
1	25S	182	U
1	25S	186	U
1	25S	188	U
1	25S	189	G
1	25S	190	U
1	25S	192	C
1	25S	200	C
1	25S	201	A
1	25S	211	A
1	25S	219	A
1	25S	224	C
1	25S	225	C
1	25S	226	C
1	25S	238	A
1	25S	241	G
1	25S	242	C
1	25S	243	G
1	25S	245	U
1	25S	249	U
1	25S	251	G
1	25S	252	U
1	25S	269	G
1	25S	270	U
1	25S	281	G
1	25S	286	U
1	25S	295	A
1	25S	315	C
1	25S	316	U
1	25S	323	A
1	25S	329	U
1	25S	338	A

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Mol	Chain	Res	Type
1	25S	346	C
1	25S	350	C
1	25S	352	A
1	25S	359	U
1	25S	375	A
1	25S	376	G
1	25S	378	A
1	25S	389	A
1	25S	391	A
1	25S	398	A
1	25S	399	A
1	25S	401	U
1	25S	402	A
1	25S	403	C
1	25S	420	G
1	25S	421	G
1	25S	422	A
1	25S	425	G
1	25S	431	U
1	25S	435	C
1	25S	490	A
1	25S	492	U
1	25S	493	G
1	25S	496	C
1	25S	518	G
1	25S	520	U
1	25S	521	A
1	25S	523	A
1	25S	532	A
1	25S	533	A
1	25S	534	U
1	25S	543	C
1	25S	546	C
1	25S	547	G
1	25S	548	G
1	25S	555	U
1	25S	557	A
1	25S	559	A
1	25S	569	A
1	25S	573	C
1	25S	585	A
1	25S	600	G

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Mol	Chain	Res	Type
1	25S	601	U
1	25S	602	A
1	25S	606	C
1	25S	607	A
1	25S	609	G
1	25S	610	G
1	25S	611	A
1	25S	612	U
1	25S	618	C
1	25S	619	A
1	25S	623	U
1	25S	624	G
1	25S	625	G
1	25S	626	U
1	25S	636	C
1	25S	637	C
1	25S	649	A
1	25S	657	A
1	25S	660	A
1	25S	677	A
1	25S	678	G
1	25S	680	G
1	25S	681	U
1	25S	682	U
1	25S	683	U
1	25S	691	A
1	25S	705	A
1	25S	710	A
1	25S	712	G
1	25S	715	A
1	25S	718	G
1	25S	719	U
1	25S	721	G
1	25S	758	C
1	25S	766	U
1	25S	767	U
1	25S	768	C
1	25S	776	U
1	25S	777	U
1	25S	778	U
1	25S	780	A
1	25S	781	G

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Mol	Chain	Res	Type
1	25S	784	A
1	25S	785	G
1	25S	786	A
1	25S	799	G
1	25S	803	C
1	25S	806	A
1	25S	807	A
1	25S	817	A
1	25S	818	C
1	25S	830	A
1	25S	832	G
1	25S	833	G
1	25S	850	U
1	25S	857	G
1	25S	861	C
1	25S	869	G
1	25S	874	U
1	25S	875	G
1	25S	877	C
1	25S	878	G
1	25S	879	U
1	25S	880	G
1	25S	895	A
1	25S	896	A
1	25S	897	U
1	25S	907	G
1	25S	908	G
1	25S	909	G
1	25S	914	A
1	25S	916	G
1	25S	917	A
1	25S	921	A
1	25S	923	C
1	25S	924	G
1	25S	937	G
1	25S	940	G
1	25S	943	U
1	25S	944	C
1	25S	959	C
1	25S	960	U
1	25S	961	C
1	25S	964	G

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Mol	Chain	Res	Type
1	25S	971	G
1	25S	978	G
1	25S	979	U
1	25S	980	A
1	25S	981	U
1	25S	992	A
1	25S	994	G
1	25S	1000	C
1	25S	1010	G
1	25S	1015	U
1	25S	1016	C
1	25S	1018	G
1	25S	1022	U
1	25S	1030	A
1	25S	1032	C
1	25S	1035	G
1	25S	1037	C
1	25S	1047	A
1	25S	1063	G
1	25S	1064	A
1	25S	1066	G
1	25S	1068	C
1	25S	1071	U
1	25S	1072	G
1	25S	1076	C
1	25S	1081	U
1	25S	1082	U
1	25S	1093	A
1	25S	1094	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	1125	U
1	25S	1128	U
1	25S	1131	G
1	25S	1135	A
1	25S	1142	G
1	25S	1143	A

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Mol	Chain	Res	Type
1	25S	1144	U
1	25S	1151	U
1	25S	1152	G
1	25S	1153	A
1	25S	1154	A
1	25S	1159	A
1	25S	1178	G
1	25S	1180	A
1	25S	1181	U
1	25S	1182	A
1	25S	1191	U
1	25S	1193	A
1	25S	1194	G
1	25S	1196	C
1	25S	1201	C
1	25S	1209	G
1	25S	1220	U
1	25S	1222	G
1	25S	1235	U
1	25S	1236	G
1	25S	1237	G
1	25S	1240	A
1	25S	1245	A
1	25S	1246	G
1	25S	1251	A
1	25S	1252	A
1	25S	1253	U
1	25S	1256	G
1	25S	1257	C
1	25S	1258	U
1	25S	1262	G
1	25S	1263	A
1	25S	1265	U
1	25S	1270	A
1	25S	1273	A
1	25S	1274	A
1	25S	1278	A
1	25S	1283	C
1	25S	1286	A
1	25S	1287	A
1	25S	1288	U
1	25S	1302	A

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Mol	Chain	Res	Type
1	25S	1307	G
1	25S	1308	A
1	25S	1309	U
1	25S	1313	G
1	25S	1317	A
1	25S	1318	A
1	25S	1325	U
1	25S	1330	A
1	25S	1333	C
1	25S	1346	G
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	1386	A
1	25S	1387	G
1	25S	1391	C
1	25S	1399	A
1	25S	1400	G
1	25S	1406	A
1	25S	1407	A
1	25S	1417	G
1	25S	1418	A
1	25S	1421	G
1	25S	1425	U
1	25S	1431	G
1	25S	1432	C
1	25S	1434	G
1	25S	1436	U
1	25S	1437	C
1	25S	1446	A
1	25S	1450	G
1	25S	1468	A
1	25S	1483	G
1	25S	1495	U
1	25S	1502	C
1	25S	1506	A
1	25S	1507	G
1	25S	1508	C

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Mol	Chain	Res	Type
1	25S	1510	G
1	25S	1523	U
1	25S	1527	C
1	25S	1536	G
1	25S	1546	A
1	25S	1549	U
1	25S	1553	U
1	25S	1556	C
1	25S	1557	A
1	25S	1560	G
1	25S	1562	C
1	25S	1563	C
1	25S	1564	U
1	25S	1567	U
1	25S	1568	U
1	25S	1569	U
1	25S	1570	U
1	25S	1571	A
1	25S	1572	U
1	25S	1575	A
1	25S	1578	C
1	25S	1580	A
1	25S	1581	C
1	25S	1582	C
1	25S	1589	A
1	25S	1595	U
1	25S	1596	C
1	25S	1605	A
1	25S	1606	U
1	25S	1620	U
1	25S	1622	U
1	25S	1628	C
1	25S	1629	U
1	25S	1630	U
1	25S	1632	A
1	25S	1643	A
1	25S	1644	C
1	25S	1645	U
1	25S	1646	G
1	25S	1654	A
1	25S	1656	A
1	25S	1657	C

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Mol	Chain	Res	Type
1	25S	1695	U
1	25S	1716	U
1	25S	1717	U
1	25S	1724	U
1	25S	1741	A
1	25S	1744	G
1	25S	1749	A
1	25S	1750	A
1	25S	1751	G
1	25S	1753	G
1	25S	1759	C
1	25S	1762	C
1	25S	1763	U
1	25S	1764	U
1	25S	1765	U
1	25S	1767	C
1	25S	1769	G
1	25S	1773	C
1	25S	1796	G
1	25S	1797	A
1	25S	1808	G
1	25S	1812	G
1	25S	1813	A
1	25S	1815	U
1	25S	1816	A
1	25S	1817	G
1	25S	1820	U
1	25S	1821	U
1	25S	1840	U
1	25S	1842	A
1	25S	1848	G
1	25S	1866	C
1	25S	1867	A
1	25S	1878	G
1	25S	1879	A
1	25S	1880	U
1	25S	1885	U
1	25S	1886	A
1	25S	1894	U
1	25S	1906	G
1	25S	1920	U
1	25S	1934	G

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Mol	Chain	Res	Type
1	25S	1935	G
1	25S	1948	G
1	25S	1951	C
1	25S	1952	G
1	25S	2093	A
1	25S	2094	C
1	25S	2095	G
1	25S	2099	A
1	25S	2101	C
1	25S	2102	U
1	25S	2112	U
1	25S	2114	C
1	25S	2122	G
1	25S	2126	A
1	25S	2131	A
1	25S	2140	U
1	25S	2158	A
1	25S	2162	U
1	25S	2168	A
1	25S	2169	G
1	25S	2170	U
1	25S	2171	G
1	25S	2172	A
1	25S	2176	U
1	25S	2184	U
1	25S	2185	G
1	25S	2188	A
1	25S	2205	U
1	25S	2206	G
1	25S	2207	A
1	25S	2208	A
1	25S	2209	U
1	25S	2210	G
1	25S	2213	A
1	25S	2223	A
1	25S	2225	U
1	25S	2244	A
1	25S	2246	G
1	25S	2249	G
1	25S	2251	G
1	25S	2252	A
1	25S	2256	A

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Mol	Chain	Res	Type
1	25S	2257	C
1	25S	2262	A
1	25S	2269	U
1	25S	2270	A
1	25S	2272	G
1	25S	2273	G
1	25S	2274	U
1	25S	2276	G
1	25S	2279	A
1	25S	2281	A
1	25S	2295	A
1	25S	2298	U
1	25S	2306	C
1	25S	2307	G
1	25S	2310	U
1	25S	2313	A
1	25S	2315	G
1	25S	2335	G
1	25S	2336	U
1	25S	2341	A
1	25S	2349	U
1	25S	2361	A
1	25S	2363	A
1	25S	2373	A
1	25S	2374	C
1	25S	2375	G
1	25S	2382	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	2415	C
1	25S	2416	U
1	25S	2418	G
1	25S	2419	A
1	25S	2436	U
1	25S	2449	A

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Mol	Chain	Res	Type
1	25S	2450	G
1	25S	2451	G
1	25S	2454	G
1	25S	2455	U
1	25S	2465	G
1	25S	2485	A
1	25S	2487	U
1	25S	2497	U
1	25S	2498	C
1	25S	2507	C
1	25S	2509	U
1	25S	2510	U
1	25S	2511	A
1	25S	2514	U
1	25S	2515	A
1	25S	2522	G
1	25S	2523	A
1	25S	2534	G
1	25S	2535	A
1	25S	2536	A
1	25S	2537	U
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	2564	G
1	25S	2569	A
1	25S	2570	U
1	25S	2571	U
1	25S	2573	G
1	25S	2585	G
1	25S	2586	G
1	25S	2587	U
1	25S	2593	A
1	25S	2606	G
1	25S	2607	G

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Mol	Chain	Res	Type
1	25S	2614	G
1	25S	2621	G
1	25S	2626	A
1	25S	2628	A
1	25S	2636	A
1	25S	2638	C
1	25S	2648	G
1	25S	2652	U
1	25S	2656	A
1	25S	2657	A
1	25S	2673	A
1	25S	2674	A
1	25S	2677	G
1	25S	2678	A
1	25S	2681	U
1	25S	2689	A
1	25S	2691	A
1	25S	2695	A
1	25S	2696	A
1	25S	2704	A
1	25S	2705	A
1	25S	2714	G
1	25S	2720	G
1	25S	2721	A
1	25S	2728	G
1	25S	2729	U
1	25S	2737	C
1	25S	2744	U
1	25S	2750	U
1	25S	2753	G
1	25S	2754	G
1	25S	2755	C
1	25S	2759	U
1	25S	2762	A
1	25S	2771	U
1	25S	2772	C
1	25S	2773	C
1	25S	2776	C
1	25S	2777	G
1	25S	2778	G
1	25S	2779	A
1	25S	2795	U

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Mol	Chain	Res	Type
1	25S	2796	G
1	25S	2799	A
1	25S	2800	G
1	25S	2801	A
1	25S	2804	A
1	25S	2805	G
1	25S	2808	A
1	25S	2810	C
1	25S	2814	G
1	25S	2817	A
1	25S	2827	U
1	25S	2838	A
1	25S	2843	U
1	25S	2845	A
1	25S	2846	U
1	25S	2847	A
1	25S	2871	G
1	25S	2872	A
1	25S	2875	U
1	25S	2876	C
1	25S	2887	A
1	25S	2889	C
1	25S	2899	C
1	25S	2911	A
1	25S	2914	G
1	25S	2923	U
1	25S	2925	C
1	25S	2935	U
1	25S	2936	A
1	25S	2938	G
1	25S	2941	A
1	25S	2942	C
1	25S	2943	G
1	25S	2946	A
1	25S	2947	G
1	25S	2948	C
1	25S	2951	G
1	25S	2952	G
1	25S	2954	U
1	25S	2955	U
1	25S	2971	A
1	25S	2972	G

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Mol	Chain	Res	Type
1	25S	2979	U
1	25S	2983	C
1	25S	2984	C
1	25S	2990	G
1	25S	2996	U
1	25S	2997	G
1	25S	2998	U
1	25S	3002	C
1	25S	3005	A
1	25S	3012	A
1	25S	3049	A
1	25S	3056	U
1	25S	3059	G
1	25S	3078	U
1	25S	3079	U
1	25S	3080	G
1	25S	3092	C
1	25S	3101	G
1	25S	3109	G
1	25S	3115	C
1	25S	3116	G
1	25S	3122	A
1	25S	3130	A
1	25S	3131	U
1	25S	3142	A
1	25S	3143	C
1	25S	3149	G
1	25S	3153	U
1	25S	3154	C
1	25S	3156	U
1	25S	3157	U
1	25S	3158	G
1	25S	3168	A
1	25S	3170	A
1	25S	3172	A
1	25S	3173	G
1	25S	3176	G
1	25S	3177	G
1	25S	3179	U
1	25S	3180	A
1	25S	3181	C
1	25S	3187	A

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Mol	Chain	Res	Type
1	25S	3196	U
1	25S	3197	G
1	25S	3198	U
1	25S	3206	C
1	25S	3207	U
1	25S	3209	A
1	25S	3210	A
1	25S	3215	A
1	25S	3217	C
1	25S	3218	A
1	25S	3219	G
1	25S	3227	A
1	25S	3228	C
1	25S	3232	G
1	25S	3244	A
1	25S	3245	A
1	25S	3246	G
1	25S	3247	G
1	25S	3249	C
1	25S	3254	G
1	25S	3256	G
1	25S	3260	G
1	25S	3263	G
1	25S	3268	A
1	25S	3269	U
1	25S	3270	U
1	25S	3271	G
1	25S	3272	C
1	25S	3273	A
1	25S	3274	A
1	25S	3276	G
1	25S	3277	U
1	25S	3278	C
1	25S	3279	A
1	25S	3280	U
1	25S	3281	U
1	25S	3283	U
1	25S	3288	G
1	25S	3289	G
1	25S	3294	A
1	25S	3303	G
1	25S	3304	U

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Mol	Chain	Res	Type
1	25S	3313	U
1	25S	3316	A
1	25S	3319	U
1	25S	3320	A
1	25S	3333	G
1	25S	3341	U
1	25S	3342	A
1	25S	3345	G
1	25S	3348	G
1	25S	3349	C
1	25S	3350	C
1	25S	3352	U
1	25S	3353	G
1	25S	3357	U
1	25S	3358	U
1	25S	3359	A
1	25S	3368	U
1	25S	3369	G
1	25S	3378	C
1	25S	3382	U
1	25S	3386	G
1	25S	3389	U
1	25S	3390	G
2	AB	7	G
2	AB	31	U
2	AB	38	U
2	AB	41	G
2	AB	45	A
2	AB	54	U
2	AB	55	A
2	AB	59	U
2	AB	63	A
2	AB	64	A
2	AB	65	G
2	AB	73	C
2	AB	74	C
2	AB	76	A
2	AB	88	G
2	AB	90	U
2	AB	91	G
2	AB	93	C
2	AB	110	G

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Mol	Chain	Res	Type
2	AB	112	G
2	AB	121	U
3	58S	2	A
3	58S	22	U
3	58S	23	U
3	58S	34	U
3	58S	35	C
3	58S	51	G
3	58S	52	A
3	58S	53	A
3	58S	59	A
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	91	C
3	58S	92	A
3	58S	95	G
3	58S	104	A
3	58S	105	A
3	58S	106	C
3	58S	113	U
3	58S	125	U
3	58S	126	A
3	58S	127	U
3	58S	128	U
3	58S	130	C
3	58S	131	A
3	58S	151	C
3	58S	152	G
3	58S	155	A
3	58S	157	U
3	58S	158	U
46	18S	4	C
46	18S	14	C
46	18S	17	C

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Mol	Chain	Res	Type
46	18S	25	C
46	18S	26	A
46	18S	34	G
46	18S	42	G
46	18S	45	U
46	18S	47	A
46	18S	61	A
46	18S	68	A
46	18S	70	C
46	18S	78	A
46	18S	80	A
46	18S	105	A
46	18S	111	U
46	18S	113	U
46	18S	114	C
46	18S	127	G
46	18S	129	U
46	18S	130	C
46	18S	131	C
46	18S	137	U
46	18S	138	A
46	18S	140	A
46	18S	141	U
46	18S	144	U
46	18S	145	A
46	18S	146	U
46	18S	147	A
46	18S	157	A
46	18S	159	U
46	18S	161	U
46	18S	167	U
46	18S	169	A
46	18S	177	U
46	18S	178	U
46	18S	179	A
46	18S	181	A
46	18S	182	A
46	18S	185	U
46	18S	186	C
46	18S	199	G
46	18S	200	A
46	18S	201	G

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Mol	Chain	Res	Type
46	18S	203	U
46	18S	204	G
46	18S	217	A
46	18S	218	A
46	18S	219	A
46	18S	249	U
46	18S	250	C
46	18S	253	A
46	18S	260	U
46	18S	261	U
46	18S	265	A
46	18S	267	U
46	18S	271	A
46	18S	272	U
46	18S	276	C
46	18S	278	U
46	18S	279	G
46	18S	280	U
46	18S	281	G
46	18S	287	G
46	18S	299	A
46	18S	313	U
46	18S	314	C
46	18S	316	A
46	18S	321	C
46	18S	322	G
46	18S	337	G
46	18S	338	C
46	18S	351	C
46	18S	355	G
46	18S	359	A
46	18S	361	C
46	18S	386	G
46	18S	387	A
46	18S	399	A
46	18S	400	A
46	18S	401	A
46	18S	402	C
46	18S	404	G
46	18S	412	A
46	18S	416	A
46	18S	419	G

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Mol	Chain	Res	Type
46	18S	423	G
46	18S	424	C
46	18S	426	G
46	18S	427	C
46	18S	434	G
46	18S	435	C
46	18S	437	A
46	18S	439	U
46	18S	444	C
46	18S	445	A
46	18S	452	A
46	18S	455	C
46	18S	459	G
46	18S	468	A
46	18S	475	A
46	18S	477	A
46	18S	480	G
46	18S	486	G
46	18S	488	G
46	18S	489	C
46	18S	490	C
46	18S	491	C
46	18S	492	A
46	18S	493	U
46	18S	496	G
46	18S	497	G
46	18S	499	U
46	18S	503	G
46	18S	506	A
46	18S	507	U
46	18S	515	A
46	18S	517	U
46	18S	527	A
46	18S	529	A
46	18S	534	A
46	18S	538	A
46	18S	539	G
46	18S	541	A
46	18S	542	A
46	18S	543	C
46	18S	544	A
46	18S	545	A

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Mol	Chain	Res	Type
46	18S	548	G
46	18S	551	G
46	18S	555	A
46	18S	557	G
46	18S	558	U
46	18S	559	C
46	18S	565	C
46	18S	567	A
46	18S	568	G
46	18S	576	G
46	18S	581	U
46	18S	582	U
46	18S	583	C
46	18S	594	A
46	18S	606	A
46	18S	610	G
46	18S	611	U
46	18S	616	G
46	18S	619	A
46	18S	620	A
46	18S	623	A
46	18S	624	G
46	18S	630	A
46	18S	637	C
46	18S	648	G
46	18S	649	U
46	18S	650	U
46	18S	651	G
46	18S	653	C
46	18S	654	C
46	18S	655	G
46	18S	656	G
46	18S	657	U
46	18S	679	U
46	18S	681	U
46	18S	691	C
46	18S	693	U
46	18S	694	U
46	18S	695	U
46	18S	696	C
46	18S	697	C
46	18S	698	U

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Mol	Chain	Res	Type
46	18S	700	C
46	18S	701	U
46	18S	702	G
46	18S	703	G
46	18S	704	C
46	18S	705	U
46	18S	706	A
46	18S	707	A
46	18S	708	C
46	18S	709	C
46	18S	710	U
46	18S	711	U
46	18S	714	G
46	18S	715	U
46	18S	716	C
46	18S	717	C
46	18S	718	U
46	18S	719	U
46	18S	720	G
46	18S	721	U
46	18S	722	G
46	18S	723	G
46	18S	727	U
46	18S	728	U
46	18S	729	G
46	18S	730	G
46	18S	731	C
46	18S	732	G
46	18S	733	A
46	18S	734	A
46	18S	735	C
46	18S	738	G
46	18S	739	G
46	18S	740	A
46	18S	741	C
46	18S	742	U
46	18S	743	U
46	18S	756	A
46	18S	757	A
46	18S	758	U
46	18S	765	G
46	18S	766	U

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Mol	Chain	Res	Type
46	18S	775	G
46	18S	779	U
46	18S	780	A
46	18S	781	U
46	18S	782	U
46	18S	783	G
46	18S	784	C
46	18S	789	A
46	18S	793	A
46	18S	794	U
46	18S	795	U
46	18S	798	C
46	18S	803	A
46	18S	810	G
46	18S	812	A
46	18S	813	U
46	18S	814	A
46	18S	816	G
46	18S	819	G
46	18S	820	U
46	18S	821	U
46	18S	823	G
46	18S	827	C
46	18S	830	U
46	18S	831	U
46	18S	832	U
46	18S	841	U
46	18S	846	G
46	18S	856	A
46	18S	858	G
46	18S	859	A
46	18S	860	U
46	18S	863	A
46	18S	876	G
46	18S	881	A
46	18S	886	U
46	18S	895	G
46	18S	897	C
46	18S	898	A
46	18S	912	U
46	18S	913	G
46	18S	914	G

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Mol	Chain	Res	Type
46	18S	915	A
46	18S	920	U
46	18S	926	A
46	18S	929	A
46	18S	933	A
46	18S	935	U
46	18S	944	A
46	18S	951	A
46	18S	960	U
46	18S	964	U
46	18S	966	A
46	18S	988	A
46	18S	991	G
46	18S	992	A
46	18S	993	A
46	18S	996	U
46	18S	998	A
46	18S	1010	C
46	18S	1022	C
46	18S	1026	A
46	18S	1027	A
46	18S	1028	C
46	18S	1030	A
46	18S	1031	U
46	18S	1040	G
46	18S	1051	G
46	18S	1053	G
46	18S	1057	U
46	18S	1058	U
46	18S	1059	U
46	18S	1060	U
46	18S	1061	A
46	18S	1063	U
46	18S	1076	A
46	18S	1081	A
46	18S	1082	C
46	18S	1083	G
46	18S	1085	G
46	18S	1091	A
46	18S	1092	A
46	18S	1093	A
46	18S	1097	U

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Mol	Chain	Res	Type
46	18S	1100	G
46	18S	1113	A
46	18S	1138	A
46	18S	1150	G
46	18S	1151	A
46	18S	1153	G
46	18S	1154	G
46	18S	1157	A
46	18S	1158	C
46	18S	1162	C
46	18S	1167	G
46	18S	1170	G
46	18S	1182	U
46	18S	1185	U
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	1207	C
46	18S	1216	C
46	18S	1217	A
46	18S	1218	G
46	18S	1220	C
46	18S	1224	A
46	18S	1226	A
46	18S	1228	G
46	18S	1229	G
46	18S	1238	A
46	18S	1241	G
46	18S	1243	G
46	18S	1244	A
46	18S	1245	G
46	18S	1246	C
46	18S	1249	U
46	18S	1252	C
46	18S	1255	G
46	18S	1256	A
46	18S	1258	U
46	18S	1259	U

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Mol	Chain	Res	Type
46	18S	1261	G
46	18S	1264	G
46	18S	1265	G
46	18S	1270	G
46	18S	1273	G
46	18S	1274	C
46	18S	1275	A
46	18S	1285	U
46	18S	1286	U
46	18S	1288	G
46	18S	1293	U
46	18S	1298	U
46	18S	1307	U
46	18S	1309	C
46	18S	1310	U
46	18S	1314	U
46	18S	1315	U
46	18S	1316	G
46	18S	1320	U
46	18S	1321	A
46	18S	1336	A
46	18S	1337	A
46	18S	1338	C
46	18S	1339	C
46	18S	1340	U
46	18S	1341	A
46	18S	1344	A
46	18S	1345	A
46	18S	1346	A
46	18S	1347	U
46	18S	1348	A
46	18S	1351	G
46	18S	1354	G
46	18S	1355	C
46	18S	1358	G
46	18S	1359	C
46	18S	1361	U
46	18S	1362	U
46	18S	1363	U
46	18S	1364	G
46	18S	1367	G
46	18S	1370	U

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Mol	Chain	Res	Type
46	18S	1371	A
46	18S	1372	U
46	18S	1375	A
46	18S	1376	C
46	18S	1380	U
46	18S	1385	G
46	18S	1388	A
46	18S	1390	U
46	18S	1395	G
46	18S	1397	U
46	18S	1398	U
46	18S	1399	C
46	18S	1400	A
46	18S	1409	G
46	18S	1411	A
46	18S	1412	G
46	18S	1413	U
46	18S	1414	U
46	18S	1415	U
46	18S	1424	A
46	18S	1425	A
46	18S	1426	C
46	18S	1427	A
46	18S	1428	G
46	18S	1431	C
46	18S	1432	U
46	18S	1433	G
46	18S	1436	A
46	18S	1447	C
46	18S	1459	C
46	18S	1460	A
46	18S	1469	A
46	18S	1471	A
46	18S	1472	C
46	18S	1473	U
46	18S	1474	G
46	18S	1477	G
46	18S	1478	G
46	18S	1479	A
46	18S	1482	C
46	18S	1483	A
46	18S	1489	U

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Mol	Chain	Res	Type
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	1506	G
46	18S	1515	A
46	18S	1516	A
46	18S	1517	U
46	18S	1520	U
46	18S	1523	G
46	18S	1524	A
46	18S	1532	U
46	18S	1535	U
46	18S	1536	G
46	18S	1537	C
46	18S	1538	U
46	18S	1542	G
46	18S	1543	A
46	18S	1548	G
46	18S	1550	A
46	18S	1557	U
46	18S	1559	A
46	18S	1563	C
46	18S	1568	C
46	18S	1570	A
46	18S	1592	A
46	18S	1597	A
46	18S	1601	G
46	18S	1607	G
46	18S	1615	C
46	18S	1616	G
46	18S	1618	C
46	18S	1619	C
46	18S	1622	G
46	18S	1631	A
46	18S	1633	A
46	18S	1634	C
46	18S	1635	A
46	18S	1643	U
46	18S	1651	A

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Mol	Chain	Res	Type
46	18S	1657	U
46	18S	1658	G
46	18S	1665	U
46	18S	1667	A
46	18S	1678	A
46	18S	1681	A
46	18S	1683	C
46	18S	1685	G
46	18S	1686	C
46	18S	1691	A
46	18S	1692	G
46	18S	1693	A
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	1706	C
46	18S	1707	A
46	18S	1710	U
46	18S	1711	C
46	18S	1712	A
46	18S	1713	G
46	18S	1714	A
46	18S	1715	G
46	18S	1716	C
46	18S	1717	G
46	18S	1740	A
46	18S	1751	C
46	18S	1762	A
46	18S	1766	A
46	18S	1769	U
46	18S	1780	G
46	18S	1781	A
46	18S	1782	A
46	18S	1790	A
46	18S	1792	G
46	18S	1793	G

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Mol	Chain	Res	Type
46	18S	1794	A
46	18S	1796	C
46	18S	1797	A
80	ASIT	2	C
80	ASIT	3	C
80	ASIT	4	C
80	ASIT	7	A
80	ASIT	9	A
80	ASIT	10	G
80	ASIT	11	C
80	ASIT	13	C
80	ASIT	15	G
80	ASIT	16	U
80	ASIT	17	C
80	ASIT	18	G
80	ASIT	19	G
80	ASIT	20	U
80	ASIT	21	A
80	ASIT	25	C
80	ASIT	37	YG
80	ASIT	41	C
80	ASIT	47	U
80	ASIT	48	C
80	ASIT	49	C
80	ASIT	58	A
80	ASIT	59	U
80	ASIT	60	U
80	ASIT	64	A
80	ASIT	65	G
80	ASIT	68	C
80	ASIT	69	G
80	ASIT	70	G
80	ASIT	74	C
81	PSIT	2	G
81	PSIT	8	U
81	PSIT	9	G
81	PSIT	14	A
81	PSIT	16	C
81	PSIT	18	C
81	PSIT	19	G
81	PSIT	20	G
81	PSIT	21	U

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Mol	Chain	Res	Type
81	PSIT	22	A
81	PSIT	23	G
81	PSIT	36	A
81	PSIT	48	U
81	PSIT	49	C
81	PSIT	54	G
81	PSIT	55	U
81	PSIT	59	A
81	PSIT	61	U
81	PSIT	66	C
81	PSIT	75	C
81	PSIT	77	A
82	mRNA	4	U
82	mRNA	5	U
82	mRNA	8	A

All (49) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	25S	40	A
1	25S	491	C
1	25S	601	U
1	25S	916	G
1	25S	959	C
1	25S	993	G
1	25S	1154	A
1	25S	1562	C
1	25S	1605	A
1	25S	1814	A
1	25S	1820	U
1	25S	2209	U
1	25S	2306	C
1	25S	2313	A
1	25S	2372	A
1	25S	2418	G
1	25S	2570	U
1	25S	2842	U
1	25S	2971	A
1	25S	3004	C
1	25S	3121	U
1	25S	3206	C
2	AB	72	A

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Mol	Chain	Res	Type
3	58S	126	A
46	18S	45	U
46	18S	77	U
46	18S	143	G
46	18S	145	A
46	18S	199	G
46	18S	487	G
46	18S	695	U
46	18S	717	C
46	18S	781	U
46	18S	812	A
46	18S	858	G
46	18S	1082	C
46	18S	1161	C
46	18S	1244	A
46	18S	1273	G
46	18S	1335	U
46	18S	1399	C
46	18S	1410	A
46	18S	1458	G
46	18S	1489	U
46	18S	1491	U
46	18S	1633	A
46	18S	1684	U
80	ASIT	10	G
80	ASIT	69	G

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

2 non-standard protein/DNA/RNA residues are modelled in this entry.

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.

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 515 ligands modelled in this entry, 514 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 (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	25S	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	25S	2458:A	O3'	2463:G	P	18.22

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	3162/3396 (93%)	-0.53	3 (0%) 95 89	62, 101, 192, 285	0
2	AB	121/121 (100%)	-0.54	0 100 100	50, 108, 139, 149	0
3	58S	158/158 (100%)	-0.52	2 (1%) 77 51	94, 113, 157, 214	0
4	uL10	180/312 (57%)	1.07	46 (25%) 0 0	109, 163, 192, 199	0
5	uL2	252/254 (99%)	0.23	19 (7%) 14 4	65, 81, 107, 190	0
6	uL3	386/387 (99%)	0.70	59 (15%) 2 1	66, 96, 124, 166	0
7	uL4	361/362 (99%)	0.77	63 (17%) 1 0	79, 123, 153, 163	0
8	uL18	296/297 (99%)	0.49	33 (11%) 5 1	88, 126, 161, 176	0
9	eL6	156/176 (88%)	-0.09	6 (3%) 40 16	103, 138, 165, 183	0
10	uL30	222/244 (90%)	1.20	57 (25%) 0 0	82, 105, 156, 197	0
11	eL8	233/256 (91%)	0.62	36 (15%) 2 1	95, 127, 186, 210	0
12	uL6	191/191 (100%)	0.05	7 (3%) 41 17	73, 103, 127, 167	0
13	uL16	213/221 (96%)	1.02	49 (23%) 0 0	76, 99, 130, 152	0
14	uL5	169/174 (97%)	1.30	46 (27%) 0 0	105, 160, 186, 197	0
15	eL13	193/199 (96%)	1.10	42 (21%) 0 0	82, 129, 161, 181	0
16	eL14	136/138 (98%)	0.31	12 (8%) 10 3	96, 122, 157, 179	0
17	eL15	203/204 (99%)	1.31	55 (27%) 0 0	74, 101, 118, 131	0
18	uL13	197/199 (98%)	0.84	35 (17%) 1 0	74, 97, 148, 160	0
19	uL22	151/184 (82%)	1.34	42 (27%) 0 0	74, 107, 136, 142	0
20	eL18	185/186 (99%)	0.92	35 (18%) 1 0	88, 117, 136, 156	0
21	eL19	176/189 (93%)	0.38	13 (7%) 14 4	69, 98, 166, 192	0
22	eL20	172/172 (100%)	1.22	41 (23%) 0 0	86, 104, 123, 142	0
23	eL21	159/160 (99%)	1.39	54 (33%) 0 0	80, 101, 172, 186	0
24	eL22	97/121 (80%)	1.42	30 (30%) 0 0	119, 146, 172, 186	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
25	uL14	129/137 (94%)	0.44	7 (5%) 25 9	62, 85, 103, 110	0
26	eL24	63/155 (40%)	0.30	5 (7%) 12 4	77, 92, 117, 136	0
27	uL23	120/142 (84%)	1.63	45 (37%) 0 0	96, 117, 142, 157	0
28	uL24	126/127 (99%)	1.08	30 (23%) 0 0	106, 136, 161, 170	0
29	eL27	135/136 (99%)	0.82	27 (20%) 1 0	93, 114, 142, 158	0
30	uL15	148/149 (99%)	1.29	45 (30%) 0 0	77, 112, 146, 154	0
31	eL29	58/59 (98%)	0.54	7 (12%) 4 1	82, 116, 156, 186	0
32	eL30	97/105 (92%)	0.75	11 (11%) 5 1	86, 104, 148, 154	0
33	eL31	109/113 (96%)	1.56	34 (31%) 0 0	80, 111, 179, 189	0
34	eL32	127/130 (97%)	1.15	33 (25%) 0 0	84, 120, 161, 165	0
35	eL33	106/107 (99%)	0.69	15 (14%) 2 1	89, 108, 154, 182	0
36	eL34	109/121 (90%)	0.24	12 (11%) 5 2	77, 96, 144, 167	0
37	uL29	119/120 (99%)	0.78	20 (16%) 1 0	102, 128, 155, 167	0
38	eL36	99/100 (99%)	0.99	20 (20%) 1 0	102, 124, 148, 197	0
39	eL37	84/88 (95%)	1.03	18 (21%) 0 0	68, 98, 127, 149	0
40	eL38	77/78 (98%)	-0.00	5 (6%) 18 5	102, 130, 154, 159	0
41	eL39	50/51 (98%)	1.83	20 (40%) 0 0	91, 109, 133, 144	0
42	eL40	52/128 (40%)	-0.36	0 100 100	75, 90, 112, 119	0
43	eL41	25/25 (100%)	1.20	6 (24%) 0 0	88, 102, 112, 117	0
44	eL42	102/106 (96%)	1.28	31 (30%) 0 0	75, 106, 134, 165	0
45	eL43	91/92 (98%)	0.35	8 (8%) 10 3	67, 85, 106, 124	0
46	18S	1732/1798 (96%)	-0.62	14 (0%) 86 65	65, 110, 249, 326	0
47	uS2	206/252 (81%)	0.51	26 (12%) 3 1	92, 123, 160, 173	0
48	eS1	212/255 (83%)	1.04	47 (22%) 0 0	87, 141, 189, 206	0
49	uS5	217/254 (85%)	1.61	74 (34%) 0 0	80, 105, 146, 187	0
50	uS3	183/240 (76%)	2.39	90 (49%) 0 0	106, 152, 188, 200	0
51	eS4	258/261 (98%)	1.20	60 (23%) 0 0	72, 99, 123, 189	0
52	uS7	206/225 (91%)	2.42	101 (49%) 0 0	137, 179, 204, 219	0
53	eS6	219/236 (92%)	0.10	17 (7%) 13 4	78, 125, 163, 187	0
54	eS7	184/190 (96%)	0.70	32 (17%) 1 0	88, 140, 196, 210	0
55	eS8	184/200 (92%)	0.55	21 (11%) 5 1	72, 104, 155, 192	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
56	uS4	185/197 (93%)	0.85	29 (15%) 2 1	83, 108, 147, 200	0
57	eS10	33/105 (31%)	0.95	7 (21%) 0 0	155, 179, 188, 192	0
58	uS17	142/156 (91%)	0.60	20 (14%) 2 1	65, 89, 149, 163	0
59	uS15	150/151 (99%)	1.09	28 (18%) 1 0	74, 98, 127, 144	0
60	uS11	127/137 (92%)	0.93	23 (18%) 1 0	78, 124, 157, 168	0
61	uS19	91/142 (64%)	1.30	32 (35%) 0 0	139, 167, 193, 202	0
62	uS9	136/143 (95%)	2.00	49 (36%) 0 0	119, 174, 201, 204	0
63	eS17	121/136 (88%)	1.89	40 (33%) 0 0	122, 161, 189, 198	0
64	uS13	145/146 (99%)	1.32	50 (34%) 0 0	126, 161, 194, 210	0
65	eS19	143/144 (99%)	0.75	27 (18%) 1 0	130, 160, 185, 195	0
66	uS10	30/121 (24%)	1.91	15 (50%) 0 0	111, 123, 158, 161	0
67	eS21	87/87 (100%)	1.37	25 (28%) 0 0	91, 111, 161, 168	0
68	uS8	129/130 (99%)	1.13	34 (26%) 0 0	73, 88, 103, 114	0
69	uS12	144/145 (99%)	0.36	12 (8%) 11 3	66, 87, 113, 128	0
70	eS24	134/135 (99%)	0.74	18 (13%) 3 1	86, 115, 175, 191	0
71	eS25	70/108 (64%)	4.57	51 (72%) 0 0	171, 203, 214, 218	0
72	eS26	94/119 (78%)	1.31	27 (28%) 0 0	77, 97, 158, 175	0
73	eS27	79/82 (96%)	0.71	10 (12%) 3 1	85, 107, 173, 178	0
74	eS28	63/67 (94%)	3.26	37 (58%) 0 0	141, 182, 207, 214	0
75	uS14	49/56 (87%)	1.00	12 (24%) 0 0	115, 133, 146, 150	0
76	eS30	53/63 (84%)	1.06	11 (20%) 1 0	94, 120, 186, 189	0
77	RACK	318/319 (99%)	4.97	242 (76%) 0 0	186, 211, 224, 230	0
78	eS31	36/152 (23%)	-0.04	3 (8%) 11 3	151, 195, 204, 213	0
79	eEF2	841/842 (99%)	0.14	40 (4%) 30 11	77, 112, 148, 178	0
80	ASIT	75/76 (98%)	1.37	23 (30%) 0 0	114, 197, 233, 248	0
81	PSIT	77/77 (100%)	-0.63	0 100 100	81, 162, 191, 199	0
82	mRNA	8/8 (100%)	0.64	1 (12%) 3 1	115, 121, 141, 160	0
83	uL11	137/165 (83%)	-0.33	6 (4%) 34 13	115, 144, 157, 168	0
All	All	17093/18690 (91%)	0.53	2538 (14%) 2 1	50, 114, 195, 326	0

All (2538) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
77	RACK	231	MET	24.4
77	RACK	144	LEU	20.6
77	RACK	72	THR	18.9
77	RACK	204	ALA	17.9
77	RACK	230	ALA	17.7
77	RACK	80	ALA	17.2
46	18S	718	U	17.0
77	RACK	214	ALA	16.8
52	uS7	20	PHE	16.7
71	eS25	87	GLY	16.3
77	RACK	73	LEU	16.0
77	RACK	182	ASN	16.0
63	eS17	35	CYS	15.6
64	uS13	2	SER	15.3
52	uS7	21	THR	15.0
77	RACK	130	THR	14.7
46	18S	719	U	14.6
8	uL18	297	GLN	14.5
77	RACK	71	CYS	14.3
52	uS7	71	ALA	14.3
77	RACK	24	ALA	14.3
77	RACK	25	THR	14.2
77	RACK	33	LEU	14.1
77	RACK	180	ALA	13.9
77	RACK	77	GLY	13.7
77	RACK	26	SER	13.2
77	RACK	143	THR	12.8
77	RACK	178	VAL	12.8
77	RACK	194	GLY	12.5
77	RACK	243	LEU	12.4
77	RACK	131	ILE	12.4
63	eS17	38	ILE	12.3
77	RACK	147	HIS	12.2
62	uS9	50	GLU	12.2
77	RACK	203	THR	11.9
77	RACK	82	SER	11.9
77	RACK	226	ALA	11.8
77	RACK	254	ALA	11.7
52	uS7	52	GLU	11.6
71	eS25	41	ILE	11.6
71	eS25	88	ILE	11.6
77	RACK	106	HIS	11.3
77	RACK	172	ALA	11.3

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Mol	Chain	Res	Type	RSRZ
62	uS9	41	PRO	11.2
52	uS7	68	ILE	11.1
74	eS28	17	GLY	11.0
62	uS9	49	TYR	11.0
71	eS25	105	THR	10.9
77	RACK	171	SER	10.9
74	eS28	6	PRO	10.7
74	eS28	9	LEU	10.7
50	uS3	208	ILE	10.6
77	RACK	232	TYR	10.6
77	RACK	9	LEU	10.6
77	RACK	202	LEU	10.4
77	RACK	81	LEU	10.4
77	RACK	195	HIS	10.1
77	RACK	104	VAL	10.1
77	RACK	179	LYS	10.1
63	eS17	21	TYR	10.0
38	eL36	100	HIS	10.0
77	RACK	103	PHE	9.9
70	eS24	2	SER	9.9
5	uL2	253	GLN	9.9
77	RACK	305	TYR	9.8
50	uS3	116	ARG	9.8
52	uS7	70	VAL	9.8
77	RACK	227	ALA	9.7
63	eS17	22	PRO	9.7
74	eS28	15	VAL	9.6
77	RACK	107	LYS	9.6
77	RACK	236	ALA	9.5
50	uS3	80	ALA	9.4
71	eS25	102	THR	9.4
52	uS7	69	PHE	9.4
74	eS28	8	THR	9.2
77	RACK	173	GLY	9.2
77	RACK	245	PHE	9.2
77	RACK	79	TYR	9.1
77	RACK	302	PHE	9.1
77	RACK	211	ILE	9.1
71	eS25	92	ILE	9.1
77	RACK	114	ASP	9.1
77	RACK	155	ARG	9.0
77	RACK	284	ALA	8.9

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Mol	Chain	Res	Type	RSRZ
50	uS3	207	THR	8.9
77	RACK	123	ILE	8.9
76	eS30	52	GLY	8.8
50	uS3	117	ARG	8.8
80	ASIT	55	U	8.7
65	eS19	37	VAL	8.7
4	uL10	111	ALA	8.6
71	eS25	98	GLN	8.6
71	eS25	101	TYR	8.6
62	uS9	47	LYS	8.5
63	eS17	39	ALA	8.5
77	RACK	261	LYS	8.4
13	uL16	112	GLN	8.4
77	RACK	2	ALA	8.4
77	RACK	146	GLY	8.3
77	RACK	45	TRP	8.3
27	uL23	142	ILE	8.3
63	eS17	36	ASP	8.3
77	RACK	260	ILE	8.3
71	eS25	40	VAL	8.3
14	uL5	114	ILE	8.2
77	RACK	285	ALA	8.2
24	eL22	69	ALA	8.2
50	uS3	114	ALA	8.2
77	RACK	100	TYR	8.1
74	eS28	65	ARG	8.1
23	eL21	160	ILE	8.0
7	uL4	168	ALA	8.0
77	RACK	219	GLU	8.0
4	uL10	116	PRO	7.9
52	uS7	153	GLY	7.9
77	RACK	168	THR	7.9
77	RACK	248	ASN	7.9
74	eS28	5	THR	7.9
63	eS17	19	ARG	7.9
71	eS25	69	LEU	7.9
71	eS25	73	GLY	7.9
71	eS25	80	LEU	7.8
76	eS30	51	ASN	7.8
77	RACK	148	ASN	7.8
77	RACK	170	ILE	7.8
33	eL31	4	LEU	7.8

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Mol	Chain	Res	Type	RSRZ
77	RACK	177	MET	7.8
77	RACK	213	SER	7.7
48	eS1	90	GLU	7.6
74	eS28	63	ALA	7.6
59	uS15	151	ASN	7.6
35	eL33	29	LEU	7.5
62	uS9	51	PRO	7.5
77	RACK	201	THR	7.5
77	RACK	218	GLY	7.5
71	eS25	89	ILE	7.5
28	uL24	66	GLN	7.5
71	eS25	100	ILE	7.5
77	RACK	134	TRP	7.5
77	RACK	225	LEU	7.4
76	eS30	53	LYS	7.4
74	eS28	30	VAL	7.4
52	uS7	177	ILE	7.4
75	uS14	50	ILE	7.4
20	eL18	101	VAL	7.4
14	uL5	115	LYS	7.4
77	RACK	259	GLY	7.3
62	uS9	42	GLU	7.3
30	uL15	149	ALA	7.3
77	RACK	273	ASP	7.3
77	RACK	105	GLY	7.3
64	uS13	56	LYS	7.3
50	uS3	113	LEU	7.2
77	RACK	139	GLN	7.2
24	eL22	51	GLY	7.2
77	RACK	120	SER	7.2
64	uS13	5	VAL	7.2
52	uS7	36	ALA	7.1
77	RACK	303	ALA	7.1
50	uS3	57	ASP	7.1
65	eS19	33	TYR	7.1
80	ASIT	19	G	7.1
14	uL5	122	ILE	7.1
77	RACK	154	VAL	7.1
48	eS1	91	VAL	7.1
7	uL4	109	TRP	7.0
4	uL10	79	PHE	7.0
79	eEF2	586	ILE	7.0

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Mol	Chain	Res	Type	RSRZ
77	RACK	125	GLY	7.0
50	uS3	72	LEU	7.0
77	RACK	74	THR	7.0
6	uL3	139	GLN	7.0
32	eL30	105	ALA	7.0
64	uS13	51	ASP	7.0
52	uS7	108	LEU	7.0
62	uS9	57	LEU	7.0
63	eS17	20	TYR	7.0
13	uL16	104	SER	7.0
22	eL20	125	LYS	7.0
71	eS25	57	TYR	7.0
71	eS25	39	ALA	6.9
52	uS7	178	GLY	6.9
4	uL10	164	LYS	6.9
63	eS17	40	THR	6.9
77	RACK	167	VAL	6.9
77	RACK	295	SER	6.8
50	uS3	115	ILE	6.8
64	uS13	58	ALA	6.8
61	uS19	84	ILE	6.8
14	uL5	123	PHE	6.8
77	RACK	242	SER	6.8
46	18S	717	C	6.7
67	eS21	53	TYR	6.7
61	uS19	88	GLU	6.7
49	uS5	81	MET	6.7
71	eS25	91	PRO	6.7
6	uL3	106	TRP	6.6
60	uS11	116	GLU	6.6
77	RACK	133	VAL	6.6
50	uS3	71	LEU	6.6
62	uS9	44	LEU	6.6
71	eS25	56	THR	6.6
15	eL13	9	ILE	6.6
41	eL39	51	ILE	6.6
50	uS3	8	LYS	6.5
4	uL10	85	GLY	6.5
27	uL23	141	TYR	6.5
70	eS24	3	ASP	6.5
62	uS9	40	GLU	6.5
77	RACK	70	ASP	6.5

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Mol	Chain	Res	Type	RSRZ
52	uS7	22	PRO	6.5
22	eL20	1	MET	6.5
49	uS5	98	PHE	6.4
79	eEF2	645	LEU	6.4
27	uL23	82	LEU	6.4
52	uS7	225	ARG	6.4
41	eL39	36	ARG	6.4
74	eS28	16	LEU	6.4
77	RACK	27	ALA	6.4
7	uL4	90	PHE	6.4
10	uL30	177	GLY	6.4
50	uS3	75	LYS	6.4
77	RACK	193	ILE	6.4
30	uL15	56	VAL	6.4
50	uS3	69	LEU	6.3
62	uS9	39	VAL	6.3
77	RACK	13	LEU	6.3
77	RACK	269	TYR	6.3
8	uL18	2	ALA	6.3
22	eL20	96	ASP	6.3
77	RACK	76	ASP	6.3
12	uL6	191	LEU	6.3
8	uL18	296	GLN	6.3
49	uS5	144	TRP	6.3
66	uS10	84	MET	6.3
63	eS17	41	ILE	6.2
64	uS13	6	GLN	6.2
71	eS25	82	HIS	6.2
4	uL10	66	PHE	6.2
77	RACK	187	GLN	6.2
80	ASIT	17	C	6.2
77	RACK	152	SER	6.2
14	uL5	110	ILE	6.2
52	uS7	151	GLY	6.2
77	RACK	244	ALA	6.2
49	uS5	237	VAL	6.2
28	uL24	79	ALA	6.2
49	uS5	249	ALA	6.1
11	eL8	202	GLU	6.1
80	ASIT	65	G	6.1
67	eS21	39	VAL	6.1
5	uL2	249	SER	6.1

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Mol	Chain	Res	Type	RSRZ
52	uS7	64	VAL	6.1
27	uL23	123	TYR	6.1
14	uL5	26	SER	6.1
77	RACK	293	ALA	6.1
51	eS4	256	ARG	6.1
76	eS30	54	ARG	6.1
71	eS25	42	LEU	6.1
54	eS7	13	PRO	6.1
52	uS7	40	ILE	6.1
77	RACK	101	GLN	6.1
6	uL3	140	ASP	6.0
77	RACK	142	ALA	6.0
71	eS25	79	ALA	6.0
62	uS9	118	ILE	6.0
52	uS7	53	VAL	6.0
77	RACK	212	ALA	6.0
77	RACK	229	LYS	6.0
61	uS19	121	ILE	6.0
13	uL16	110	ARG	6.0
77	RACK	181	TRP	6.0
77	RACK	283	LYS	6.0
59	uS15	149	LEU	6.0
52	uS7	181	GLU	6.0
74	eS28	64	ARG	5.9
77	RACK	22	SER	5.9
19	uL22	94	LEU	5.9
72	eS26	36	ILE	5.9
50	uS3	193	ALA	5.9
71	eS25	103	ARG	5.9
57	eS10	66	TYR	5.9
62	uS9	115	THR	5.9
50	uS3	202	LEU	5.8
52	uS7	111	VAL	5.8
77	RACK	65	SER	5.8
71	eS25	59	TYR	5.8
27	uL23	84	PHE	5.8
34	eL32	86	THR	5.8
50	uS3	83	THR	5.8
50	uS3	102	ALA	5.8
20	eL18	78	ASN	5.8
75	uS14	54	LYS	5.8
52	uS7	39	GLU	5.8

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Mol	Chain	Res	Type	RSRZ
62	uS9	56	GLY	5.8
50	uS3	38	GLU	5.8
34	eL32	92	TYR	5.8
77	RACK	272	ASP	5.8
77	RACK	169	ILE	5.8
49	uS5	95	ARG	5.7
50	uS3	79	TYR	5.7
67	eS21	37	ALA	5.7
77	RACK	162	ALA	5.7
10	uL30	133	TYR	5.7
7	uL4	49	ALA	5.7
4	uL10	114	VAL	5.7
49	uS5	236	PRO	5.7
14	uL5	47	GLN	5.7
50	uS3	50	ILE	5.7
50	uS3	210	GLU	5.7
33	eL31	112	ASP	5.7
77	RACK	247	PRO	5.7
62	uS9	43	ILE	5.7
50	uS3	16	VAL	5.6
46	18S	722	G	5.6
6	uL3	138	ALA	5.6
75	uS14	52	PHE	5.6
6	uL3	110	LEU	5.6
28	uL24	78	PHE	5.6
6	uL3	137	TYR	5.6
62	uS9	53	LEU	5.6
77	RACK	23	LEU	5.6
77	RACK	34	LEU	5.6
77	RACK	222	LEU	5.6
23	eL21	34	TYR	5.6
77	RACK	92	TRP	5.6
14	uL5	108	GLU	5.6
15	eL13	83	ALA	5.6
48	eS1	82	ARG	5.6
50	uS3	152	PHE	5.6
14	uL5	34	SER	5.6
52	uS7	131	GLN	5.5
62	uS9	38	LEU	5.5
14	uL5	120	ILE	5.5
33	eL31	51	LEU	5.5
77	RACK	267	PRO	5.5

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Mol	Chain	Res	Type	RSRZ
37	uL29	120	ALA	5.5
61	uS19	89	MET	5.5
14	uL5	147	THR	5.5
50	uS3	76	ARG	5.5
52	uS7	75	GLY	5.5
14	uL5	116	TYR	5.5
18	uL13	3	VAL	5.5
52	uS7	140	THR	5.5
52	uS7	24	VAL	5.5
71	eS25	53	GLU	5.5
52	uS7	54	LYS	5.5
71	eS25	72	GLY	5.5
20	eL18	140	LEU	5.5
11	eL8	161	GLU	5.5
22	eL20	126	VAL	5.5
4	uL10	58	MET	5.5
16	eL14	32	LEU	5.5
58	uS17	145	ALA	5.5
51	eS4	182	TYR	5.4
57	eS10	64	TYR	5.4
77	RACK	124	SER	5.4
63	eS17	30	THR	5.4
77	RACK	12	THR	5.4
77	RACK	83	ALA	5.4
19	uL22	23	ARG	5.4
80	ASIT	56	C	5.4
77	RACK	109	ASP	5.4
28	uL24	67	GLU	5.4
77	RACK	156	VAL	5.4
14	uL5	27	GLY	5.4
76	eS30	49	LEU	5.4
52	uS7	187	ILE	5.4
82	mRNA	8	A	5.4
27	uL23	96	LYS	5.4
11	eL8	163	VAL	5.4
33	eL31	47	ASP	5.4
63	eS17	115	LEU	5.4
17	eL15	160	GLU	5.4
62	uS9	94	GLN	5.4
77	RACK	49	GLY	5.4
52	uS7	112	ARG	5.4
6	uL3	55	THR	5.4

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Mol	Chain	Res	Type	RSRZ
50	uS3	26	THR	5.4
74	eS28	28	VAL	5.3
65	eS19	31	PRO	5.3
48	eS1	220	GLN	5.3
27	uL23	83	VAL	5.3
77	RACK	250	TYR	5.3
64	uS13	3	LEU	5.3
13	uL16	109	ASP	5.3
31	eL29	59	LYS	5.3
77	RACK	11	GLY	5.3
77	RACK	251	TRP	5.3
51	eS4	259	GLN	5.3
27	uL23	122	ALA	5.3
77	RACK	32	LEU	5.3
11	eL8	112	GLU	5.2
14	uL5	30	LEU	5.2
24	eL22	58	GLU	5.2
66	uS10	83	GLU	5.2
4	uL10	10	GLU	5.2
49	uS5	50	ILE	5.2
4	uL10	28	VAL	5.2
19	uL22	15	ALA	5.2
50	uS3	191	ASP	5.2
77	RACK	292	LEU	5.2
10	uL30	86	VAL	5.2
18	uL13	16	VAL	5.2
51	eS4	23	LEU	5.2
19	uL22	147	GLU	5.2
62	uS9	116	LEU	5.2
6	uL3	107	ALA	5.2
23	eL21	62	GLY	5.1
50	uS3	74	GLN	5.1
77	RACK	111	MET	5.1
52	uS7	206	SER	5.1
77	RACK	7	LEU	5.1
21	eL19	2	ALA	5.1
21	eL19	52	LYS	5.1
19	uL22	148	LEU	5.1
77	RACK	145	LEU	5.1
48	eS1	191	GLU	5.1
60	uS11	113	GLY	5.1
7	uL4	262	TRP	5.1

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Mol	Chain	Res	Type	RSRZ
71	eS25	93	SER	5.1
11	eL8	77	GLN	5.1
37	uL29	2	ALA	5.1
74	eS28	26	THR	5.1
60	uS11	114	ARG	5.1
67	eS21	50	TYR	5.1
49	uS5	145	GLY	5.1
65	eS19	26	GLY	5.1
71	eS25	75	LEU	5.1
77	RACK	3	SER	5.1
63	eS17	23	LYS	5.0
52	uS7	110	ALA	5.0
77	RACK	215	GLY	5.0
77	RACK	268	GLN	5.0
77	RACK	48	THR	5.0
44	eL42	70	LEU	5.0
77	RACK	276	PRO	5.0
74	eS28	10	ALA	5.0
74	eS28	29	ARG	5.0
71	eS25	94	LYS	5.0
28	uL24	59	VAL	5.0
63	eS17	37	GLU	5.0
56	uS4	58	ASP	5.0
51	eS4	255	ARG	5.0
71	eS25	83	LEU	5.0
29	eL27	4	PHE	5.0
7	uL4	108	LYS	5.0
28	uL24	80	VAL	5.0
59	uS15	60	VAL	5.0
48	eS1	105	PHE	5.0
11	eL8	198	ALA	5.0
10	uL30	151	ARG	5.0
77	RACK	252	LEU	4.9
79	eEF2	93	THR	4.9
66	uS10	85	ARG	4.9
18	uL13	15	LEU	4.9
38	eL36	39	PHE	4.9
52	uS7	77	TYR	4.9
67	eS21	52	THR	4.9
79	eEF2	587	TYR	4.9
77	RACK	233	THR	4.9
20	eL18	171	LYS	4.9

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Mol	Chain	Res	Type	RSRZ
77	RACK	306	THR	4.9
7	uL4	89	ALA	4.9
51	eS4	47	PHE	4.9
71	eS25	99	ALA	4.9
7	uL4	50	TYR	4.9
22	eL20	91	TYR	4.9
50	uS3	209	ILE	4.9
23	eL21	86	GLU	4.9
65	eS19	124	ILE	4.9
74	eS28	66	LEU	4.9
4	uL10	7	LYS	4.9
75	uS14	43	PHE	4.9
37	uL29	41	LEU	4.9
50	uS3	58	VAL	4.8
52	uS7	72	HIS	4.8
8	uL18	62	CYS	4.8
50	uS3	107	PHE	4.8
77	RACK	126	SER	4.8
7	uL4	281	ILE	4.8
23	eL21	30	TYR	4.8
77	RACK	64	HIS	4.8
67	eS21	34	ILE	4.8
15	eL13	82	ALA	4.8
14	uL5	118	PRO	4.8
22	eL20	123	ILE	4.8
11	eL8	200	LEU	4.8
56	uS4	91	LYS	4.8
65	eS19	15	ILE	4.8
71	eS25	86	GLU	4.8
7	uL4	318	LEU	4.8
14	uL5	121	GLY	4.8
15	eL13	10	LEU	4.8
67	eS21	35	ASN	4.8
76	eS30	50	VAL	4.8
8	uL18	295	GLY	4.8
10	uL30	165	ASP	4.8
27	uL23	64	GLU	4.8
58	uS17	118	GLN	4.8
52	uS7	78	ALA	4.8
77	RACK	304	GLY	4.7
50	uS3	201	ALA	4.7
51	eS4	238	LEU	4.7

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Mol	Chain	Res	Type	RSRZ
77	RACK	132	LYS	4.7
14	uL5	25	GLU	4.7
74	eS28	38	ARG	4.7
77	RACK	118	LYS	4.7
64	uS13	85	PHE	4.7
50	uS3	194	LYS	4.7
77	RACK	235	SER	4.7
24	eL22	68	THR	4.7
33	eL31	89	LEU	4.7
72	eS26	47	ALA	4.7
52	uS7	114	ILE	4.7
63	eS17	50	ILE	4.7
8	uL18	163	LEU	4.7
10	uL30	179	LEU	4.7
17	eL15	198	SER	4.7
30	uL15	46	ASP	4.7
33	eL31	92	TYR	4.7
4	uL10	77	LEU	4.7
10	uL30	109	THR	4.7
71	eS25	104	ALA	4.7
50	uS3	158	ILE	4.7
6	uL3	150	ARG	4.7
19	uL22	118	GLN	4.7
23	eL21	57	TYR	4.7
10	uL30	87	VAL	4.7
77	RACK	237	GLN	4.6
77	RACK	129	LYS	4.6
36	eL34	22	VAL	4.6
64	uS13	83	ALA	4.6
32	eL30	9	SER	4.6
52	uS7	196	GLU	4.6
10	uL30	88	ARG	4.6
23	eL21	78	LYS	4.6
27	uL23	121	LYS	4.6
79	eEF2	691	VAL	4.6
48	eS1	72	ASP	4.6
77	RACK	228	LYS	4.6
51	eS4	226	PHE	4.6
77	RACK	313	TRP	4.6
65	eS19	115	GLU	4.6
15	eL13	124	ILE	4.6
23	eL21	85	LEU	4.6

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Mol	Chain	Res	Type	RSRZ
19	uL22	18	ARG	4.6
77	RACK	161	LYS	4.6
14	uL5	109	HIS	4.6
6	uL3	87	VAL	4.6
35	eL33	28	SER	4.6
15	eL13	23	LYS	4.6
36	eL34	30	LEU	4.6
77	RACK	62	LYS	4.6
10	uL30	85	PHE	4.6
71	eS25	67	ASP	4.6
74	eS28	12	VAL	4.6
22	eL20	95	ARG	4.6
48	eS1	80	SER	4.6
17	eL15	58	GLY	4.5
49	uS5	224	PHE	4.5
77	RACK	166	SER	4.5
10	uL30	164	SER	4.5
6	uL3	56	ILE	4.5
60	uS11	115	ILE	4.5
76	eS30	48	THR	4.5
76	eS30	58	PRO	4.5
54	eS7	52	ALA	4.5
11	eL8	150	LEU	4.5
9	eL6	13	GLU	4.5
32	eL30	97	ASP	4.5
50	uS3	78	LYS	4.5
47	uS2	146	LEU	4.5
28	uL24	106	ILE	4.5
67	eS21	33	GLN	4.5
68	uS8	70	ASN	4.5
77	RACK	153	GLN	4.5
17	eL15	9	GLU	4.5
49	uS5	101	VAL	4.5
77	RACK	75	ALA	4.5
59	uS15	61	THR	4.5
7	uL4	280	ILE	4.5
14	uL5	64	LYS	4.5
79	eEF2	577	SER	4.5
4	uL10	175	LEU	4.5
22	eL20	30	PHE	4.5
50	uS3	99	VAL	4.5
77	RACK	122	ILE	4.4

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Mol	Chain	Res	Type	RSRZ
49	uS5	90	THR	4.4
74	eS28	7	VAL	4.4
77	RACK	127	ARG	4.4
10	uL30	178	ILE	4.4
11	eL8	165	PHE	4.4
61	uS19	109	PRO	4.4
62	uS9	79	TYR	4.4
14	uL5	58	GLY	4.4
15	eL13	95	ILE	4.4
7	uL4	182	LEU	4.4
15	eL13	85	LEU	4.4
63	eS17	34	LEU	4.4
41	eL39	11	GLN	4.4
70	eS24	74	LEU	4.4
17	eL15	81	TYR	4.4
72	eS26	73	TYR	4.4
34	eL32	122	PRO	4.4
6	uL3	387	LEU	4.4
72	eS26	35	ALA	4.4
14	uL5	49	LYS	4.4
59	uS15	148	ALA	4.4
24	eL22	108	TYR	4.4
7	uL4	65	TRP	4.4
56	uS4	63	ASP	4.4
37	uL29	30	GLU	4.4
39	eL37	55	ARG	4.4
61	uS19	74	ALA	4.4
64	uS13	52	VAL	4.4
52	uS7	55	ASP	4.4
52	uS7	30	PRO	4.4
60	uS11	14	PHE	4.4
47	uS2	26	ALA	4.4
7	uL4	164	GLU	4.4
51	eS4	110	ALA	4.4
52	uS7	67	PRO	4.4
7	uL4	41	SER	4.3
76	eS30	55	ARG	4.3
6	uL3	335	ILE	4.3
15	eL13	84	GLY	4.3
74	eS28	33	LEU	4.3
50	uS3	17	PHE	4.3
77	RACK	198	ASN	4.3

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Mol	Chain	Res	Type	RSRZ
4	uL10	65	GLY	4.3
73	eS27	2	VAL	4.3
36	eL34	7	PHE	4.3
71	eS25	43	ASP	4.3
48	eS1	122	GLU	4.3
33	eL31	91	SER	4.3
77	RACK	223	TRP	4.3
66	uS10	64	LYS	4.3
11	eL8	94	PHE	4.3
30	uL15	68	PHE	4.3
64	uS13	4	VAL	4.3
77	RACK	309	VAL	4.3
56	uS4	12	TYR	4.3
33	eL31	93	VAL	4.3
58	uS17	117	VAL	4.3
10	uL30	166	ASN	4.3
77	RACK	102	ARG	4.3
67	eS21	49	GLU	4.3
49	uS5	96	THR	4.3
58	uS17	6	THR	4.3
52	uS7	33	VAL	4.3
24	eL22	27	VAL	4.3
30	uL15	64	GLN	4.3
56	uS4	68	LYS	4.3
48	eS1	92	GLN	4.3
17	eL15	199	LEU	4.3
4	uL10	109	ALA	4.3
22	eL20	163	PHE	4.2
12	uL6	190	ASP	4.2
62	uS9	69	VAL	4.2
41	eL39	25	GLN	4.2
77	RACK	208	GLY	4.2
22	eL20	89	ASN	4.2
79	eEF2	635	CYS	4.2
59	uS15	141	TYR	4.2
7	uL4	106	TRP	4.2
17	eL15	116	LEU	4.2
52	uS7	130	ILE	4.2
17	eL15	162	ARG	4.2
77	RACK	286	GLU	4.2
7	uL4	111	VAL	4.2
50	uS3	103	GLU	4.2

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Mol	Chain	Res	Type	RSRZ
21	eL19	53	LYS	4.2
68	uS8	54	ASP	4.2
19	uL22	126	ARG	4.2
47	uS2	25	GLY	4.2
27	uL23	81	ILE	4.2
11	eL8	196	ALA	4.2
62	uS9	46	PHE	4.2
71	eS25	51	LEU	4.2
53	eS6	162	VAL	4.2
75	uS14	55	PHE	4.2
22	eL20	76	GLY	4.2
71	eS25	61	SER	4.2
27	uL23	63	ILE	4.2
18	uL13	140	LYS	4.2
65	eS19	16	ASN	4.2
77	RACK	89	LEU	4.2
4	uL10	112	GLY	4.2
74	eS28	61	ARG	4.1
44	eL42	72	LEU	4.1
77	RACK	253	ALA	4.1
52	uS7	141	GLY	4.1
52	uS7	179	ALA	4.1
58	uS17	86	ILE	4.1
68	uS8	61	ILE	4.1
45	eL43	2	ALA	4.1
50	uS3	153	ALA	4.1
49	uS5	63	VAL	4.1
22	eL20	92	LYS	4.1
73	eS27	58	SER	4.1
15	eL13	79	GLU	4.1
67	eS21	51	VAL	4.1
64	uS13	82	PRO	4.1
62	uS9	12	LYS	4.1
63	eS17	51	ALA	4.1
20	eL18	84	VAL	4.1
37	uL29	37	SER	4.1
48	eS1	132	ASP	4.1
77	RACK	136	ILE	4.1
51	eS4	252	ARG	4.1
14	uL5	174	LYS	4.1
4	uL10	190	VAL	4.1
23	eL21	156	TYR	4.1

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Mol	Chain	Res	Type	RSRZ
74	eS28	67	ARG	4.1
77	RACK	165	ASP	4.1
11	eL8	167	PRO	4.1
63	eS17	28	PHE	4.1
65	eS19	30	VAL	4.1
39	eL37	54	LYS	4.1
49	uS5	53	ILE	4.1
10	uL30	163	LEU	4.1
24	eL22	28	PHE	4.1
7	uL4	47	ARG	4.1
8	uL18	63	GLN	4.1
62	uS9	48	VAL	4.1
50	uS3	205	ALA	4.1
17	eL15	204	LYS	4.1
24	eL22	70	LYS	4.1
39	eL37	52	LYS	4.1
52	uS7	115	LYS	4.1
51	eS4	191	ARG	4.0
74	eS28	25	VAL	4.0
77	RACK	14	GLU	4.0
77	RACK	262	VAL	4.0
52	uS7	42	LEU	4.0
7	uL4	142	VAL	4.0
65	eS19	36	ILE	4.0
44	eL42	71	ARG	4.0
28	uL24	55	GLU	4.0
10	uL30	84	VAL	4.0
60	uS11	40	ALA	4.0
44	eL42	29	LYS	4.0
34	eL32	3	SER	4.0
61	uS19	33	PHE	4.0
80	ASIT	57	G	4.0
83	uL11	70	ALA	4.0
60	uS11	137	LEU	4.0
64	uS13	66	LEU	4.0
3	58S	82	U	4.0
77	RACK	117	LYS	4.0
6	uL3	336	VAL	4.0
14	uL5	119	SER	4.0
14	uL5	146	GLY	4.0
55	eS8	199	LYS	4.0
73	eS27	53	ALA	4.0

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Mol	Chain	Res	Type	RSRZ
80	ASIT	66	U	4.0
58	uS17	5	LEU	4.0
52	uS7	32	GLU	4.0
37	uL29	79	ASP	4.0
49	uS5	241	ASP	4.0
64	uS13	101	LEU	4.0
71	eS25	74	SER	4.0
68	uS8	51	GLU	4.0
77	RACK	312	VAL	4.0
27	uL23	124	VAL	3.9
19	uL22	38	GLY	3.9
71	eS25	55	PRO	3.9
77	RACK	192	PHE	3.9
23	eL21	65	TYR	3.9
27	uL23	60	TYR	3.9
66	uS10	82	TYR	3.9
48	eS1	96	LEU	3.9
18	uL13	199	TYR	3.9
33	eL31	54	GLU	3.9
38	eL36	47	ILE	3.9
15	eL13	80	VAL	3.9
64	uS13	113	LEU	3.9
10	uL30	31	ALA	3.9
44	eL42	2	VAL	3.9
6	uL3	60	LEU	3.9
56	uS4	93	LEU	3.9
62	uS9	13	LYS	3.9
14	uL5	29	ARG	3.9
48	eS1	63	GLY	3.9
49	uS5	238	SER	3.9
77	RACK	308	ASN	3.9
77	RACK	217	ASP	3.9
25	uL14	88	ARG	3.9
27	uL23	138	ARG	3.9
36	eL34	32	ALA	3.9
39	eL37	18	LEU	3.9
48	eS1	93	GLY	3.9
13	uL16	162	GLN	3.9
35	eL33	13	HIS	3.9
64	uS13	54	LEU	3.9
72	eS26	62	TYR	3.9
77	RACK	8	VAL	3.9

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Mol	Chain	Res	Type	RSRZ
60	uS11	41	ARG	3.9
7	uL4	105	THR	3.9
72	eS26	64	LEU	3.9
33	eL31	95	PRO	3.9
4	uL10	117	GLU	3.9
20	eL18	139	ILE	3.9
20	eL18	62	VAL	3.9
51	eS4	102	VAL	3.9
4	uL10	184	GLY	3.9
53	eS6	169	TYR	3.9
77	RACK	205	SER	3.9
6	uL3	357	LYS	3.9
56	uS4	74	ASN	3.9
77	RACK	58	VAL	3.8
49	uS5	91	ARG	3.8
61	uS19	103	ASN	3.8
52	uS7	107	LYS	3.8
77	RACK	220	ILE	3.8
59	uS15	57	ALA	3.8
74	eS28	32	PHE	3.8
34	eL32	18	LYS	3.8
64	uS13	100	THR	3.8
62	uS9	22	VAL	3.8
79	eEF2	613	LYS	3.8
10	uL30	83	LEU	3.8
13	uL16	136	PHE	3.8
50	uS3	151	LYS	3.8
38	eL36	66	GLU	3.8
4	uL10	84	VAL	3.8
23	eL21	128	LEU	3.8
29	eL27	2	ALA	3.8
50	uS3	12	VAL	3.8
18	uL13	106	GLU	3.8
79	eEF2	634	TRP	3.8
33	eL31	87	ASN	3.8
64	uS13	80	LYS	3.8
8	uL18	53	VAL	3.8
31	eL29	26	THR	3.8
23	eL21	98	HIS	3.8
19	uL22	117	ILE	3.8
71	eS25	52	LYS	3.8
15	eL13	54	LEU	3.8

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Mol	Chain	Res	Type	RSRZ
17	eL15	115	VAL	3.8
60	uS11	42	VAL	3.8
54	eS7	186	PRO	3.8
59	uS15	53	LEU	3.8
4	uL10	86	PHE	3.8
61	uS19	111	MET	3.8
18	uL13	107	GLY	3.8
22	eL20	57	GLU	3.8
62	uS9	28	LEU	3.8
25	uL14	137	VAL	3.8
49	uS5	86	VAL	3.8
62	uS9	55	VAL	3.8
78	eS31	127	GLY	3.8
17	eL15	159	ARG	3.8
20	eL18	121	CYS	3.8
23	eL21	159	PHE	3.8
27	uL23	139	ILE	3.7
34	eL32	12	LYS	3.7
52	uS7	23	VAL	3.7
60	uS11	79	VAL	3.7
75	uS14	51	GLY	3.7
79	eEF2	649	GLN	3.7
10	uL30	126	LEU	3.7
27	uL23	113	LEU	3.7
38	eL36	2	THR	3.7
77	RACK	99	THR	3.7
30	uL15	118	ILE	3.7
38	eL36	67	LYS	3.7
67	eS21	47	PRO	3.7
30	uL15	61	PHE	3.7
5	uL2	248	GLY	3.7
27	uL23	85	GLN	3.7
51	eS4	228	ILE	3.7
52	uS7	174	LEU	3.7
4	uL10	158	VAL	3.7
55	eS8	80	GLY	3.7
59	uS15	59	GLY	3.7
6	uL3	356	LEU	3.7
13	uL16	96	VAL	3.7
77	RACK	110	VAL	3.7
23	eL21	66	ASN	3.7
6	uL3	58	ARG	3.7

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Mol	Chain	Res	Type	RSRZ
9	eL6	10	TYR	3.7
22	eL20	79	VAL	3.7
50	uS3	61	GLU	3.7
14	uL5	18	VAL	3.7
44	eL42	27	GLN	3.7
6	uL3	74	GLU	3.7
30	uL15	126	LYS	3.7
65	eS19	35	ASP	3.7
15	eL13	51	LEU	3.7
62	uS9	83	GLN	3.7
27	uL23	23	ALA	3.7
10	uL30	176	TYR	3.7
19	uL22	47	TYR	3.7
54	eS7	149	ILE	3.7
62	uS9	29	ILE	3.7
51	eS4	181	VAL	3.7
6	uL3	59	ASP	3.7
49	uS5	240	LEU	3.7
51	eS4	65	LEU	3.7
52	uS7	62	VAL	3.7
67	eS21	36	VAL	3.7
74	eS28	51	ASN	3.7
4	uL10	180	PRO	3.7
7	uL4	103	THR	3.7
61	uS19	83	MET	3.7
15	eL13	132	ALA	3.7
11	eL8	197	VAL	3.7
29	eL27	25	ILE	3.6
51	eS4	64	ILE	3.6
22	eL20	90	MET	3.6
24	eL22	53	ALA	3.6
34	eL32	69	SER	3.6
6	uL3	105	VAL	3.6
49	uS5	115	ILE	3.6
6	uL3	47	LEU	3.6
11	eL8	148	ALA	3.6
49	uS5	97	ARG	3.6
13	uL16	137	SER	3.6
80	ASIT	1	G	3.6
64	uS13	73	MET	3.6
41	eL39	2	ALA	3.6
45	eL43	3	LYS	3.6

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Mol	Chain	Res	Type	RSRZ
49	uS5	84	LYS	3.6
49	uS5	208	GLU	3.6
51	eS4	225	VAL	3.6
73	eS27	38	PRO	3.6
65	eS19	18	TYR	3.6
22	eL20	124	LEU	3.6
19	uL22	37	ASN	3.6
30	uL15	70	LYS	3.6
63	eS17	101	ASN	3.6
8	uL18	201	GLY	3.6
79	eEF2	303	LEU	3.6
27	uL23	120	LYS	3.6
33	eL31	71	LEU	3.6
49	uS5	94	GLN	3.6
63	eS17	62	GLN	3.6
53	eS6	1	MET	3.6
4	uL10	187	VAL	3.6
11	eL8	199	ALA	3.6
48	eS1	77	GLU	3.6
49	uS5	100	ALA	3.6
52	uS7	154	ALA	3.6
55	eS8	53	LYS	3.6
52	uS7	113	ILE	3.6
48	eS1	73	LEU	3.6
48	eS1	49	ASN	3.6
48	eS1	221	PRO	3.6
75	uS14	37	ASN	3.6
30	uL15	148	ILE	3.6
17	eL15	202	TYR	3.6
62	uS9	54	LEU	3.6
13	uL16	199	PHE	3.6
49	uS5	62	PRO	3.6
69	uS12	122	PHE	3.6
8	uL18	89	THR	3.6
11	eL8	164	VAL	3.6
44	eL42	75	VAL	3.6
48	eS1	104	ASP	3.6
52	uS7	38	THR	3.6
54	eS7	59	ALA	3.6
71	eS25	97	LYS	3.6
33	eL31	45	GLY	3.6
52	uS7	127	GLN	3.6

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Mol	Chain	Res	Type	RSRZ
18	uL13	54	TYR	3.6
50	uS3	11	LEU	3.6
27	uL23	100	LYS	3.5
44	eL42	73	GLU	3.5
71	eS25	60	VAL	3.5
34	eL32	70	GLY	3.5
52	uS7	152	GLY	3.5
20	eL18	81	VAL	3.5
77	RACK	206	PRO	3.5
50	uS3	119	ALA	3.5
68	uS8	97	ARG	3.5
62	uS9	120	ASP	3.5
5	uL2	233	GLN	3.5
27	uL23	79	GLY	3.5
72	eS26	71	LEU	3.5
69	uS12	55	GLU	3.5
7	uL4	74	ILE	3.5
13	uL16	135	ILE	3.5
71	eS25	78	ILE	3.5
17	eL15	161	ALA	3.5
51	eS4	44	LEU	3.5
51	eS4	180	LEU	3.5
67	eS21	54	ALA	3.5
57	eS10	14	TYR	3.5
4	uL10	165	VAL	3.5
72	eS26	84	VAL	3.5
43	eL41	1	MET	3.5
30	uL15	129	PHE	3.5
11	eL8	207	ASP	3.5
50	uS3	206	VAL	3.5
79	eEF2	585	ARG	3.5
35	eL33	30	ILE	3.5
44	eL42	24	LYS	3.5
13	uL16	52	LEU	3.5
10	uL30	28	ALA	3.5
20	eL18	77	ALA	3.5
79	eEF2	717	PHE	3.5
20	eL18	158	HIS	3.5
28	uL24	98	ASN	3.5
52	uS7	134	VAL	3.5
36	eL34	29	ILE	3.5
59	uS15	58	HIS	3.5

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Mol	Chain	Res	Type	RSRZ
15	eL13	77	LEU	3.5
5	uL2	76	PHE	3.5
68	uS8	128	PHE	3.5
70	eS24	85	PHE	3.5
77	RACK	158	PRO	3.5
50	uS3	18	TYR	3.5
24	eL22	54	VAL	3.5
30	uL15	130	VAL	3.5
13	uL16	60	LEU	3.5
30	uL15	112	ILE	3.5
54	eS7	93	LEU	3.5
51	eS4	80	THR	3.5
15	eL13	164	GLU	3.5
17	eL15	62	TYR	3.5
77	RACK	141	LEU	3.5
49	uS5	78	ASP	3.5
7	uL4	59	GLN	3.5
17	eL15	80	THR	3.5
54	eS7	48	GLU	3.5
77	RACK	30	PRO	3.5
48	eS1	110	LEU	3.5
52	uS7	121	ILE	3.5
48	eS1	83	LYS	3.5
50	uS3	150	MET	3.5
50	uS3	81	PRO	3.5
52	uS7	176	THR	3.5
55	eS8	155	SER	3.5
56	uS4	97	LEU	3.5
68	uS8	69	LEU	3.5
47	uS2	107	PHE	3.5
77	RACK	176	LYS	3.5
77	RACK	121	MET	3.5
8	uL18	124	GLU	3.4
13	uL16	108	ALA	3.5
59	uS15	62	GLN	3.4
40	eL38	37	PRO	3.4
80	ASIT	64	A	3.4
64	uS13	59	GLY	3.4
23	eL21	38	ASP	3.4
20	eL18	159	LYS	3.4
29	eL27	82	PRO	3.4
36	eL34	31	ARG	3.4

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Mol	Chain	Res	Type	RSRZ
3	58S	81	U	3.4
20	eL18	99	THR	3.4
49	uS5	166	THR	3.4
24	eL22	15	PHE	3.4
41	eL39	49	MET	3.4
60	uS11	47	LYS	3.4
77	RACK	207	ASP	3.4
53	eS6	163	THR	3.4
77	RACK	88	THR	3.4
36	eL34	33	GLN	3.4
48	eS1	177	GLN	3.4
62	uS9	52	LEU	3.4
48	eS1	140	ILE	3.4
24	eL22	61	THR	3.4
72	eS26	89	ARG	3.4
77	RACK	135	THR	3.4
4	uL10	11	TYR	3.4
13	uL16	111	LEU	3.4
50	uS3	120	TYR	3.4
17	eL15	2	GLY	3.4
24	eL22	52	ASN	3.4
5	uL2	250	GLN	3.4
15	eL13	57	VAL	3.4
68	uS8	52	TYR	3.4
60	uS11	76	ILE	3.4
33	eL31	50	ARG	3.4
77	RACK	93	ASP	3.4
10	uL30	35	ALA	3.4
19	uL22	32	THR	3.4
61	uS19	62	ALA	3.4
62	uS9	117	LEU	3.4
72	eS26	86	VAL	3.4
30	uL15	111	LYS	3.4
41	eL39	42	ARG	3.4
61	uS19	113	GLY	3.4
33	eL31	83	GLU	3.4
78	eS31	124	PRO	3.4
62	uS9	119	ALA	3.4
65	eS19	11	ALA	3.4
30	uL15	42	ARG	3.4
41	eL39	46	ARG	3.4
62	uS9	34	SER	3.4

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Mol	Chain	Res	Type	RSRZ
67	eS21	38	LYS	3.4
15	eL13	25	HIS	3.4
77	RACK	50	ASP	3.4
47	uS2	45	VAL	3.4
16	eL14	56	GLN	3.4
29	eL27	92	PHE	3.4
34	eL32	117	ILE	3.4
44	eL42	26	THR	3.4
66	uS10	65	ILE	3.4
19	uL22	2	ALA	3.4
23	eL21	35	LYS	3.4
37	uL29	78	LYS	3.4
79	eEF2	687	ASN	3.4
19	uL22	34	GLN	3.4
22	eL20	6	GLU	3.4
49	uS5	88	LYS	3.4
71	eS25	46	LYS	3.4
29	eL27	80	LEU	3.4
52	uS7	58	LEU	3.4
61	uS19	66	ALA	3.4
6	uL3	144	ILE	3.4
30	uL15	37	GLY	3.4
49	uS5	77	GLN	3.4
48	eS1	111	ARG	3.4
24	eL22	50	LEU	3.3
48	eS1	89	ASP	3.3
48	eS1	94	LYS	3.3
60	uS11	92	LYS	3.3
29	eL27	12	VAL	3.3
52	uS7	118	LEU	3.3
56	uS4	92	LYS	3.3
64	uS13	23	ASP	3.3
77	RACK	191	ASP	3.3
54	eS7	58	LEU	3.3
61	uS19	112	LEU	3.3
27	uL23	98	ALA	3.3
30	uL15	47	LYS	3.3
52	uS7	74	ALA	3.3
14	uL5	133	ARG	3.3
18	uL13	80	PHE	3.3
19	uL22	105	LYS	3.3
13	uL16	124	GLY	3.3

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Mol	Chain	Res	Type	RSRZ
32	eL30	99	ASP	3.3
10	uL30	127	LEU	3.3
15	eL13	172	LEU	3.3
49	uS5	235	LEU	3.3
50	uS3	109	LEU	3.3
10	uL30	244	ASN	3.3
77	RACK	190	ALA	3.3
79	eEF2	588	LEU	3.3
39	eL37	56	ARG	3.3
79	eEF2	646	VAL	3.3
13	uL16	166	ILE	3.3
28	uL24	97	ILE	3.3
51	eS4	69	HIS	3.3
7	uL4	310	THR	3.3
23	eL21	155	PRO	3.3
77	RACK	209	THR	3.3
15	eL13	11	LYS	3.3
50	uS3	110	LEU	3.3
52	uS7	41	LYS	3.3
52	uS7	222	LYS	3.3
6	uL3	79	VAL	3.3
51	eS4	111	VAL	3.3
56	uS4	57	ARG	3.3
30	uL15	127	ALA	3.3
30	uL15	138	ILE	3.3
17	eL15	163	GLY	3.3
46	18S	721	U	3.3
69	uS12	71	CYS	3.3
77	RACK	199	ILE	3.3
6	uL3	78	VAL	3.3
48	eS1	212	VAL	3.3
37	uL29	32	LYS	3.3
52	uS7	109	LYS	3.3
51	eS4	239	PRO	3.3
4	uL10	115	ALA	3.3
15	eL13	20	GLU	3.3
54	eS7	12	ALA	3.3
68	uS8	38	LEU	3.3
4	uL10	88	PHE	3.3
18	uL13	7	VAL	3.3
22	eL20	44	PHE	3.3
62	uS9	60	PHE	3.3

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Mol	Chain	Res	Type	RSRZ
80	ASIT	61	C	3.3
64	uS13	62	THR	3.3
77	RACK	69	GLN	3.3
55	eS8	200	LYS	3.3
77	RACK	87	LYS	3.3
17	eL15	79	ALA	3.3
57	eS10	65	TYR	3.3
60	uS11	13	VAL	3.3
80	ASIT	70	G	3.3
23	eL21	76	ILE	3.3
28	uL24	125	LYS	3.3
17	eL15	117	ASN	3.2
22	eL20	28	ARG	3.2
77	RACK	115	ILE	3.2
77	RACK	294	TRP	3.2
47	uS2	157	ASP	3.2
7	uL4	112	LYS	3.2
4	uL10	167	GLN	3.2
15	eL13	133	PRO	3.2
39	eL37	20	ASN	3.2
66	uS10	86	ILE	3.2
6	uL3	136	LYS	3.2
62	uS9	58	ASP	3.2
4	uL10	17	GLU	3.2
17	eL15	133	ILE	3.2
53	eS6	54	GLY	3.2
8	uL18	162	ALA	3.2
49	uS5	116	LYS	3.2
58	uS17	71	LEU	3.2
13	uL16	165	ILE	3.2
18	uL13	9	ILE	3.2
5	uL2	180	LEU	3.2
16	eL14	33	ALA	3.2
17	eL15	10	LEU	3.2
48	eS1	219	LYS	3.2
29	eL27	118	PHE	3.2
50	uS3	138	VAL	3.2
77	RACK	277	GLU	3.2
10	uL30	114	GLY	3.2
22	eL20	94	ILE	3.2
35	eL33	14	LEU	3.2
50	uS3	82	GLY	3.2

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Mol	Chain	Res	Type	RSRZ
19	uL22	26	PHE	3.2
61	uS19	86	VAL	3.2
35	eL33	10	LYS	3.2
13	uL16	102	MET	3.2
23	eL21	79	MET	3.2
77	RACK	255	ALA	3.2
10	uL30	149	TYR	3.2
49	uS5	80	VAL	3.2
76	eS30	45	VAL	3.2
18	uL13	33	ILE	3.2
77	RACK	185	GLN	3.2
10	uL30	134	VAL	3.2
13	uL16	38	LYS	3.2
49	uS5	35	TRP	3.2
50	uS3	136	VAL	3.2
50	uS3	148	LYS	3.2
64	uS13	79	TYR	3.2
4	uL10	174	ASN	3.2
11	eL8	152	LEU	3.2
59	uS15	135	LEU	3.2
24	eL22	40	HIS	3.2
29	eL27	88	ASP	3.2
15	eL13	78	ALA	3.2
4	uL10	191	TYR	3.2
29	eL27	23	VAL	3.2
40	eL38	55	VAL	3.2
17	eL15	201	ARG	3.2
22	eL20	78	TRP	3.2
48	eS1	76	SER	3.2
66	uS10	63	LEU	3.2
6	uL3	104	THR	3.2
23	eL21	29	THR	3.2
30	uL15	132	LYS	3.2
71	eS25	90	LYS	3.2
19	uL22	149	VAL	3.2
30	uL15	110	GLY	3.2
50	uS3	96	LEU	3.2
63	eS17	52	GLY	3.2
68	uS8	60	LYS	3.2
7	uL4	167	ALA	3.2
15	eL13	24	VAL	3.2
17	eL15	196	THR	3.2

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Mol	Chain	Res	Type	RSRZ
34	eL32	17	PHE	3.2
30	uL15	145	VAL	3.2
52	uS7	180	ARG	3.2
62	uS9	20	ALA	3.2
63	eS17	42	GLN	3.2
20	eL18	173	GLU	3.2
79	eEF2	65	GLU	3.2
33	eL31	55	LEU	3.2
51	eS4	192	ILE	3.2
52	uS7	82	PHE	3.2
52	uS7	83	ARG	3.2
51	eS4	208	VAL	3.2
34	eL32	83	GLU	3.2
23	eL21	89	LEU	3.1
51	eS4	246	LEU	3.1
79	eEF2	651	LYS	3.1
30	uL15	128	ARG	3.1
37	uL29	38	ARG	3.1
46	18S	657	U	3.1
31	eL29	35	VAL	3.1
34	eL32	57	TYR	3.1
58	uS17	72	THR	3.1
74	eS28	11	LYS	3.1
43	eL41	6	ARG	3.1
52	uS7	81	ARG	3.1
72	eS26	83	ILE	3.1
49	uS5	99	LYS	3.1
65	eS19	144	GLU	3.1
14	uL5	31	THR	3.1
21	eL19	5	ARG	3.1
65	eS19	100	ILE	3.1
10	uL30	150	LYS	3.1
34	eL32	93	ALA	3.1
69	uS12	81	LYS	3.1
50	uS3	21	LEU	3.1
67	eS21	78	LEU	3.1
6	uL3	143	GLY	3.1
60	uS11	112	ILE	3.1
11	eL8	78	PHE	3.1
18	uL13	44	SER	3.1
19	uL22	146	ILE	3.1
38	eL36	49	GLY	3.1

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Mol	Chain	Res	Type	RSRZ
28	uL24	77	LYS	3.1
6	uL3	108	GLU	3.1
62	uS9	45	ARG	3.1
22	eL20	81	TYR	3.1
13	uL16	51	HIS	3.1
30	uL15	53	PHE	3.1
54	eS7	53	GLY	3.1
34	eL32	13	HIS	3.1
9	eL6	11	PRO	3.1
52	uS7	119	ASP	3.1
30	uL15	59	ARG	3.1
61	uS19	34	VAL	3.1
44	eL42	6	LYS	3.1
76	eS30	59	GLY	3.1
23	eL21	40	VAL	3.1
52	uS7	76	ARG	3.1
52	uS7	116	HIS	3.1
60	uS11	28	VAL	3.1
74	eS28	34	GLU	3.1
79	eEF2	685	ARG	3.1
7	uL4	235	LEU	3.1
8	uL18	55	PHE	3.1
11	eL8	119	GLY	3.1
33	eL31	77	ARG	3.1
56	uS4	102	GLU	3.1
64	uS13	7	GLU	3.1
22	eL20	74	ASN	3.1
48	eS1	85	LYS	3.1
63	eS17	116	LYS	3.1
75	uS14	49	ASP	3.1
8	uL18	61	ILE	3.1
23	eL21	58	GLN	3.1
63	eS17	71	PHE	3.1
75	uS14	44	ARG	3.1
16	eL14	92	GLU	3.1
29	eL27	96	VAL	3.1
33	eL31	94	GLU	3.1
50	uS3	20	GLU	3.1
63	eS17	110	VAL	3.1
10	uL30	104	GLN	3.1
23	eL21	2	GLY	3.1
49	uS5	89	GLN	3.1

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Mol	Chain	Res	Type	RSRZ
6	uL3	147	GLU	3.1
34	eL32	54	LYS	3.1
46	18S	780	A	3.1
17	eL15	156	HIS	3.1
18	uL13	19	LEU	3.1
39	eL37	57	HIS	3.1
69	uS12	104	LEU	3.1
15	eL13	21	ARG	3.1
77	RACK	149	ASP	3.1
41	eL39	9	ILE	3.1
43	eL41	8	LYS	3.1
50	uS3	31	GLU	3.1
77	RACK	94	VAL	3.1
37	uL29	36	LEU	3.1
51	eS4	38	LEU	3.1
7	uL4	174	ALA	3.1
17	eL15	185	ALA	3.1
48	eS1	30	PHE	3.0
58	uS17	107	VAL	3.0
51	eS4	92	LEU	3.0
63	eS17	24	LEU	3.0
4	uL10	183	PHE	3.0
27	uL23	132	ALA	3.0
6	uL3	50	LYS	3.0
15	eL13	89	TYR	3.0
41	eL39	24	PRO	3.0
72	eS26	59	TYR	3.0
15	eL13	103	ASN	3.0
4	uL10	80	VAL	3.0
14	uL5	19	LEU	3.0
77	RACK	274	LEU	3.0
9	eL6	176	PHE	3.0
51	eS4	99	PHE	3.0
23	eL21	153	PRO	3.0
27	uL23	67	ILE	3.0
27	uL23	118	GLY	3.0
54	eS7	91	ILE	3.0
61	uS19	125	PRO	3.0
49	uS5	193	VAL	3.0
44	eL42	85	LEU	3.0
7	uL4	104	LYS	3.0
18	uL13	105	PHE	3.0

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Mol	Chain	Res	Type	RSRZ
19	uL22	57	ALA	3.0
56	uS4	186	GLU	3.0
22	eL20	77	VAL	3.0
20	eL18	28	LEU	3.0
24	eL22	91	ASP	3.0
49	uS5	150	GLN	3.0
53	eS6	164	LYS	3.0
58	uS17	143	SER	3.0
6	uL3	81	THR	3.0
50	uS3	77	PHE	3.0
59	uS15	142	GLU	3.0
72	eS26	75	VAL	3.0
13	uL16	113	GLN	3.0
57	eS10	62	GLN	3.0
77	RACK	42	LEU	3.0
22	eL20	2	ALA	3.0
22	eL20	127	ALA	3.0
34	eL32	63	THR	3.0
63	eS17	53	TYR	3.0
5	uL2	60	LYS	3.0
74	eS28	27	GLN	3.0
6	uL3	46	PHE	3.0
15	eL13	94	GLY	3.0
19	uL22	121	GLN	3.0
20	eL18	138	LEU	3.0
47	uS2	24	LEU	3.0
17	eL15	187	ARG	3.0
22	eL20	80	ARG	3.0
9	eL6	8	LYS	3.0
23	eL21	81	GLY	3.0
38	eL36	79	SER	3.0
52	uS7	31	GLU	3.0
58	uS17	73	GLY	3.0
77	RACK	63	GLY	3.0
68	uS8	46	TYR	3.0
21	eL19	22	VAL	3.0
48	eS1	107	THR	3.0
54	eS7	150	GLN	3.0
63	eS17	58	MET	3.0
38	eL36	8	ALA	3.0
15	eL13	55	ARG	3.0
20	eL18	170	ARG	3.0

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Mol	Chain	Res	Type	RSRZ
35	eL33	31	LYS	3.0
51	eS4	43	PRO	3.0
54	eS7	61	PHE	3.0
61	uS19	110	GLU	3.0
6	uL3	51	ALA	3.0
18	uL13	127	LEU	3.0
61	uS19	122	THR	3.0
68	uS8	43	LYS	3.0
20	eL18	169	GLY	3.0
49	uS5	34	GLY	3.0
6	uL3	133	TYR	3.0
77	RACK	116	ASP	3.0
79	eEF2	76	SER	3.0
27	uL23	88	MET	3.0
13	uL16	107	GLY	2.9
33	eL31	14	ILE	2.9
72	eS26	42	ARG	2.9
7	uL4	236	LEU	2.9
10	uL30	231	ASN	2.9
30	uL15	100	PRO	2.9
49	uS5	43	ARG	2.9
74	eS28	19	THR	2.9
11	eL8	162	LEU	2.9
20	eL18	166	LEU	2.9
28	uL24	99	LEU	2.9
39	eL37	14	LYS	2.9
52	uS7	139	ASN	2.9
72	eS26	61	GLU	2.9
77	RACK	4	ASN	2.9
30	uL15	55	LYS	2.9
50	uS3	108	LYS	2.9
50	uS3	197	THR	2.9
45	eL43	18	TYR	2.9
50	uS3	157	LEU	2.9
55	eS8	196	LEU	2.9
53	eS6	156	PHE	2.9
62	uS9	109	PHE	2.9
14	uL5	28	ASP	2.9
33	eL31	79	ARG	2.9
62	uS9	68	ARG	2.9
14	uL5	88	GLU	2.9
20	eL18	167	SER	2.9

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Mol	Chain	Res	Type	RSRZ
77	RACK	108	SER	2.9
13	uL16	50	VAL	2.9
28	uL24	56	VAL	2.9
61	uS19	36	LEU	2.9
69	uS12	76	LEU	2.9
67	eS21	15	ARG	2.9
17	eL15	145	ASP	2.9
59	uS15	94	LYS	2.9
6	uL3	177	HIS	2.9
7	uL4	11	LEU	2.9
47	uS2	28	ASN	2.9
49	uS5	211	LEU	2.9
28	uL24	75	ARG	2.9
18	uL13	26	GLN	2.9
23	eL21	103	GLN	2.9
77	RACK	271	VAL	2.9
79	eEF2	688	ILE	2.9
47	uS2	165	ARG	2.9
50	uS3	19	ALA	2.9
17	eL15	61	ILE	2.9
18	uL13	35	VAL	2.9
37	uL29	105	ARG	2.9
56	uS4	86	LEU	2.9
73	eS27	62	ILE	2.9
10	uL30	141	TYR	2.9
49	uS5	138	PRO	2.9
51	eS4	31	PRO	2.9
53	eS6	208	TYR	2.9
77	RACK	197	SER	2.9
17	eL15	103	GLU	2.9
6	uL3	146	ARG	2.9
8	uL18	64	ILE	2.9
56	uS4	101	VAL	2.9
70	eS24	55	VAL	2.9
79	eEF2	818	ILE	2.9
73	eS27	37	CYS	2.9
80	ASIT	63	G	2.9
41	eL39	28	ARG	2.9
23	eL21	74	VAL	2.9
24	eL22	62	VAL	2.9
48	eS1	214	LYS	2.9
52	uS7	89	ILE	2.9

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Mol	Chain	Res	Type	RSRZ
4	uL10	26	PHE	2.9
14	uL5	107	ASP	2.9
6	uL3	233	TRP	2.9
51	eS4	183	VAL	2.9
52	uS7	90	ILE	2.9
8	uL18	212	ALA	2.9
50	uS3	25	PHE	2.9
14	uL5	145	LYS	2.9
18	uL13	148	LYS	2.9
68	uS8	26	LEU	2.9
54	eS7	75	THR	2.9
80	ASIT	51	U	2.9
7	uL4	147	GLU	2.9
17	eL15	6	TYR	2.9
38	eL36	48	ALA	2.9
72	eS26	78	ALA	2.9
38	eL36	98	ARG	2.9
20	eL18	29	LEU	2.9
65	eS19	32	GLY	2.9
77	RACK	221	MET	2.8
77	RACK	291	SER	2.8
4	uL10	186	THR	2.8
48	eS1	213	ARG	2.8
80	ASIT	4	C	2.8
4	uL10	176	LEU	2.8
20	eL18	154	GLY	2.8
77	RACK	97	GLY	2.8
79	eEF2	663	VAL	2.8
13	uL16	94	PHE	2.8
22	eL20	75	PHE	2.8
63	eS17	70	SER	2.8
77	RACK	311	ARG	2.8
23	eL21	55	LYS	2.8
41	eL39	39	ALA	2.8
52	uS7	193	THR	2.8
7	uL4	325	LEU	2.8
67	eS21	55	LEU	2.8
77	RACK	175	ASP	2.8
33	eL31	49	VAL	2.8
34	eL32	10	VAL	2.8
55	eS8	102	VAL	2.8
33	eL31	72	ARG	2.8

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Mol	Chain	Res	Type	RSRZ
62	uS9	114	ARG	2.8
66	uS10	68	ARG	2.8
55	eS8	67	TRP	2.8
20	eL18	102	ALA	2.8
59	uS15	143	SER	2.8
24	eL22	36	TYR	2.8
27	uL23	65	GLN	2.8
38	eL36	28	TYR	2.8
77	RACK	319	ASN	2.8
52	uS7	175	LEU	2.8
6	uL3	151	ILE	2.8
11	eL8	149	LYS	2.8
34	eL32	79	VAL	2.8
73	eS27	35	VAL	2.8
52	uS7	28	PRO	2.8
10	uL30	147	LEU	2.8
13	uL16	97	LEU	2.8
14	uL5	82	ARG	2.8
77	RACK	234	LEU	2.8
15	eL13	97	VAL	2.8
36	eL34	23	VAL	2.8
49	uS5	215	PHE	2.8
77	RACK	164	ASP	2.8
1	25S	2772	C	2.8
74	eS28	60	GLU	2.8
37	uL29	48	ARG	2.8
55	eS8	163	GLY	2.8
17	eL15	60	VAL	2.8
58	uS17	140	VAL	2.8
79	eEF2	713	THR	2.8
5	uL2	234	LYS	2.8
52	uS7	65	ARG	2.8
25	uL14	93	LEU	2.8
30	uL15	147	LEU	2.8
64	uS13	42	TYR	2.8
26	eL24	63	ILE	2.8
7	uL4	69	ARG	2.8
63	eS17	33	ARG	2.8
19	uL22	96	GLN	2.8
51	eS4	258	GLN	2.8
54	eS7	22	GLN	2.8
59	uS15	2	GLY	2.8

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Mol	Chain	Res	Type	RSRZ
4	uL10	105	VAL	2.8
23	eL21	42	ILE	2.8
43	eL41	2	ARG	2.8
50	uS3	106	LYS	2.8
65	eS19	2	PRO	2.8
13	uL16	103	LEU	2.8
79	eEF2	655	TYR	2.8
22	eL20	93	GLU	2.8
47	uS2	62	ARG	2.8
80	ASIT	67	C	2.8
70	eS24	6	THR	2.8
11	eL8	134	TYR	2.8
11	eL8	176	PRO	2.8
40	eL38	78	LEU	2.8
10	uL30	116	PHE	2.8
64	uS13	28	ILE	2.8
31	eL29	11	ASN	2.8
32	eL30	16	LEU	2.8
61	uS19	67	ALA	2.8
73	eS27	61	THR	2.8
11	eL8	160	ILE	2.8
47	uS2	119	ARG	2.8
68	uS8	129	VAL	2.8
7	uL4	117	GLU	2.8
49	uS5	232	GLU	2.8
14	uL5	84	LEU	2.8
22	eL20	14	LEU	2.8
37	uL29	92	LEU	2.8
49	uS5	58	LEU	2.8
10	uL30	138	TYR	2.8
16	eL14	91	CYS	2.8
52	uS7	159	ALA	2.8
20	eL18	82	VAL	2.8
24	eL22	55	THR	2.8
18	uL13	102	LEU	2.7
49	uS5	154	LEU	2.7
27	uL23	115	ARG	2.7
50	uS3	35	SER	2.7
50	uS3	165	ASN	2.7
61	uS19	115	TYR	2.7
70	eS24	134	ALA	2.7
77	RACK	78	ALA	2.7

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Mol	Chain	Res	Type	RSRZ
18	uL13	34	VAL	2.7
13	uL16	49	CYS	2.7
63	eS17	76	GLU	2.7
7	uL4	314	LYS	2.7
17	eL15	26	ARG	2.7
44	eL42	80	ARG	2.7
47	uS2	120	LEU	2.7
6	uL3	48	GLY	2.7
77	RACK	55	GLY	2.7
27	uL23	62	VAL	2.7
80	ASIT	5	G	2.7
8	uL18	60	ILE	2.7
22	eL20	130	GLU	2.7
23	eL21	157	GLU	2.7
14	uL5	33	ALA	2.7
63	eS17	75	GLU	2.7
44	eL42	82	GLN	2.7
24	eL22	35	LYS	2.7
4	uL10	25	LEU	2.7
33	eL31	73	LEU	2.7
54	eS7	139	ARG	2.7
62	uS9	31	VAL	2.7
70	eS24	75	VAL	2.7
7	uL4	73	ARG	2.7
30	uL15	38	GLN	2.7
71	eS25	81	ARG	2.7
70	eS24	133	ASN	2.7
34	eL32	89	THR	2.7
34	eL32	74	PHE	2.7
10	uL30	136	TYR	2.7
46	18S	720	G	2.7
68	uS8	37	PHE	2.7
51	eS4	103	TYR	2.7
7	uL4	44	LYS	2.7
28	uL24	76	LEU	2.7
37	uL29	42	PRO	2.7
13	uL16	208	ASN	2.7
52	uS7	128	ASN	2.7
13	uL16	173	PHE	2.7
19	uL22	60	PHE	2.7
49	uS5	93	GLY	2.7
60	uS11	117	ASP	2.7

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Mol	Chain	Res	Type	RSRZ
14	uL5	36	VAL	2.7
7	uL4	220	ARG	2.7
21	eL19	78	TYR	2.7
22	eL20	99	ARG	2.7
64	uS13	64	GLU	2.7
64	uS13	102	ALA	2.7
66	uS10	66	SER	2.7
46	18S	1491	U	2.7
4	uL10	8	LYS	2.7
13	uL16	171	TRP	2.7
21	eL19	21	LYS	2.7
23	eL21	83	ARG	2.7
27	uL23	75	LYS	2.7
77	RACK	85	TRP	2.7
29	eL27	90	GLU	2.7
32	eL30	23	TYR	2.7
67	eS21	41	GLU	2.7
8	uL18	145	PHE	2.7
17	eL15	13	LYS	2.7
52	uS7	132	VAL	2.7
52	uS7	133	VAL	2.7
54	eS7	90	VAL	2.7
54	eS7	146	GLY	2.7
19	uL22	81	ALA	2.7
22	eL20	107	TYR	2.7
64	uS13	65	GLU	2.7
23	eL21	39	ILE	2.7
67	eS21	45	ALA	2.7
28	uL24	63	LYS	2.7
5	uL2	99	GLY	2.7
49	uS5	239	PRO	2.7
56	uS4	141	VAL	2.7
62	uS9	33	GLY	2.7
23	eL21	77	ASN	2.7
50	uS3	204	ASP	2.7
8	uL18	54	ARG	2.7
57	eS10	59	PHE	2.7
11	eL8	144	GLU	2.7
55	eS8	44	HIS	2.7
77	RACK	315	VAL	2.7
30	uL15	43	ILE	2.7
41	eL39	37	TYR	2.7

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Mol	Chain	Res	Type	RSRZ
47	uS2	160	ILE	2.7
52	uS7	29	ILE	2.7
75	uS14	56	ARG	2.7
37	uL29	20	GLN	2.7
23	eL21	148	PRO	2.7
17	eL15	176	LYS	2.6
21	eL19	50	ILE	2.7
32	eL30	98	SER	2.6
64	uS13	81	ILE	2.7
65	eS19	50	ALA	2.7
70	eS24	17	LEU	2.6
6	uL3	54	THR	2.6
33	eL31	88	PRO	2.6
50	uS3	149	ALA	2.6
70	eS24	26	ASP	2.6
77	RACK	266	ASP	2.6
29	eL27	26	VAL	2.6
30	uL15	137	LYS	2.6
49	uS5	186	LYS	2.6
10	uL30	135	ALA	2.6
12	uL6	187	ILE	2.6
29	eL27	81	LEU	2.6
56	uS4	59	LEU	2.6
59	uS15	123	HIS	2.6
79	eEF2	229	TYR	2.6
48	eS1	81	PHE	2.6
8	uL18	123	GLU	2.6
24	eL22	39	ASP	2.6
44	eL42	51	GLY	2.6
49	uS5	160	GLY	2.6
49	uS5	250	GLN	2.6
54	eS7	134	GLU	2.6
77	RACK	113	VAL	2.6
30	uL15	73	LEU	2.6
30	uL15	124	ILE	2.6
47	uS2	149	LEU	2.6
56	uS4	99	LEU	2.6
59	uS15	54	LEU	2.6
69	uS12	86	PHE	2.6
11	eL8	147	LYS	2.6
15	eL13	178	LYS	2.6
65	eS19	110	LYS	2.6

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Mol	Chain	Res	Type	RSRZ
79	eEF2	686	VAL	2.6
33	eL31	52	ALA	2.6
48	eS1	71	ALA	2.6
79	eEF2	665	ALA	2.6
51	eS4	36	HIS	2.6
27	uL23	104	GLU	2.6
27	uL23	114	VAL	2.6
39	eL37	2	GLY	2.6
43	eL41	5	TRP	2.6
55	eS8	56	ARG	2.6
44	eL42	3	ASN	2.6
61	uS19	85	ILE	2.6
68	uS8	110	ILE	2.6
30	uL15	63	LYS	2.6
48	eS1	141	ALA	2.6
15	eL13	3	ILE	2.6
28	uL24	35	LEU	2.6
41	eL39	40	LYS	2.6
35	eL33	81	VAL	2.6
69	uS12	53	VAL	2.6
83	uL11	58	VAL	2.6
13	uL16	167	LEU	2.6
19	uL22	80	LYS	2.6
40	eL38	5	ILE	2.6
5	uL2	235	ALA	2.6
62	uS9	92	TYR	2.6
75	uS14	53	ASN	2.6
39	eL37	17	THR	2.6
55	eS8	197	THR	2.6
34	eL32	71	HIS	2.6
5	uL2	246	LEU	2.6
19	uL22	39	TRP	2.6
34	eL32	85	LEU	2.6
51	eS4	42	LEU	2.6
52	uS7	35	GLN	2.6
64	uS13	14	ILE	2.6
54	eS7	45	SER	2.6
56	uS4	25	ASP	2.6
48	eS1	68	VAL	2.6
7	uL4	324	LEU	2.6
33	eL31	59	ILE	2.6
74	eS28	49	ARG	2.6

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Mol	Chain	Res	Type	RSRZ
77	RACK	281	TYR	2.6
11	eL8	203	VAL	2.6
39	eL37	63	ARG	2.6
56	uS4	6	ARG	2.6
13	uL16	59	GLN	2.6
7	uL4	66	GLY	2.6
14	uL5	77	GLU	2.6
18	uL13	82	LYS	2.6
10	uL30	33	ARG	2.6
7	uL4	328	ASN	2.6
16	eL14	65	LEU	2.6
20	eL18	61	PRO	2.6
70	eS24	91	LEU	2.6
22	eL20	122	HIS	2.6
48	eS1	79	HIS	2.6
73	eS27	32	PHE	2.5
53	eS6	167	LYS	2.5
63	eS17	18	GLU	2.5
71	eS25	45	GLU	2.5
1	25S	1349	G	2.5
44	eL42	34	SER	2.5
74	eS28	53	ILE	2.5
34	eL32	118	LYS	2.5
51	eS4	245	LYS	2.5
13	uL16	56	GLU	2.5
77	RACK	157	VAL	2.5
4	uL10	108	PRO	2.5
10	uL30	132	PRO	2.5
55	eS8	43	ILE	2.5
79	eEF2	659	ILE	2.5
17	eL15	148	TYR	2.5
6	uL3	86	VAL	2.5
13	uL16	53	VAL	2.5
21	eL19	8	LYS	2.5
28	uL24	69	LYS	2.5
51	eS4	174	LYS	2.5
77	RACK	47	LEU	2.5
35	eL33	32	ILE	2.5
50	uS3	105	MET	2.5
24	eL22	90	ARG	2.5
52	uS7	50	GLU	2.5
19	uL22	119	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
51	eS4	167	GLY	2.5
11	eL8	109	LEU	2.5
59	uS15	140	LYS	2.5
24	eL22	93	ILE	2.5
56	uS4	106	GLU	2.5
24	eL22	49	ASN	2.5
68	uS8	96	ALA	2.5
72	eS26	69	ASN	2.5
17	eL15	200	TRP	2.5
6	uL3	252	ILE	2.5
19	uL22	58	ILE	2.5
68	uS8	103	ILE	2.5
39	eL37	71	SER	2.5
60	uS11	73	GLU	2.5
30	uL15	36	GLY	2.5
58	uS17	123	VAL	2.5
58	uS17	139	VAL	2.5
61	uS19	59	LYS	2.5
8	uL18	75	LEU	2.5
10	uL30	239	LEU	2.5
17	eL15	113	LEU	2.5
66	uS10	79	TRP	2.5
68	uS8	104	LEU	2.5
39	eL37	24	ARG	2.5
77	RACK	41	THR	2.5
55	eS8	168	CYS	2.5
5	uL2	59	ALA	2.5
8	uL18	76	ALA	2.5
10	uL30	27	ALA	2.5
24	eL22	67	SER	2.5
51	eS4	149	TYR	2.5
68	uS8	67	GLY	2.5
71	eS25	48	ASP	2.5
64	uS13	61	LEU	2.5
72	eS26	85	ARG	2.5
29	eL27	38	PHE	2.5
56	uS4	42	ILE	2.5
15	eL13	177	LYS	2.5
31	eL29	25	LYS	2.5
8	uL18	228	ALA	2.5
18	uL13	8	VAL	2.5
18	uL13	10	ASP	2.5

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Mol	Chain	Res	Type	RSRZ
48	eS1	78	ASP	2.5
51	eS4	100	ARG	2.5
53	eS6	153	VAL	2.5
54	eS7	180	GLN	2.5
68	uS8	39	GLN	2.5
28	uL24	20	PHE	2.5
7	uL4	67	THR	2.5
20	eL18	165	ILE	2.5
41	eL39	32	ASN	2.5
80	ASIT	59	U	2.5
80	ASIT	6	G	2.5
6	uL3	171	LEU	2.5
49	uS5	92	ALA	2.5
80	ASIT	3	C	2.5
14	uL5	127	PHE	2.5
54	eS7	187	SER	2.5
58	uS17	122	ILE	2.5
19	uL22	135	ARG	2.5
46	18S	1473	U	2.5
72	eS26	46	GLU	2.5
53	eS6	71	THR	2.5
13	uL16	200	LEU	2.5
24	eL22	56	VAL	2.5
35	eL33	89	LEU	2.5
62	uS9	67	VAL	2.5
22	eL20	136	LYS	2.5
34	eL32	68	PRO	2.5
35	eL33	85	PHE	2.5
49	uS5	40	LYS	2.5
14	uL5	21	ILE	2.5
14	uL5	69	VAL	2.5
52	uS7	25	LEU	2.5
70	eS24	70	VAL	2.5
83	uL11	59	THR	2.5
73	eS27	36	LYS	2.5
79	eEF2	361	ALA	2.5
5	uL2	25	GLY	2.4
6	uL3	115	LYS	2.4
6	uL3	162	VAL	2.4
10	uL30	124	LEU	2.4
11	eL8	151	VAL	2.4
33	eL31	33	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
53	eS6	77	LEU	2.4
13	uL16	34	TYR	2.4
25	uL14	37	ILE	2.4
51	eS4	73	ASP	2.4
64	uS13	60	GLU	2.4
19	uL22	16	SER	2.4
30	uL15	67	HIS	2.4
13	uL16	188	GLY	2.4
17	eL15	106	VAL	2.4
17	eL15	134	LEU	2.4
51	eS4	227	VAL	2.4
59	uS15	125	LEU	2.4
19	uL22	4	TYR	2.4
29	eL27	124	ALA	2.4
64	uS13	98	TYR	2.4
33	eL31	46	THR	2.4
44	eL42	18	ARG	2.4
72	eS26	79	ILE	2.4
27	uL23	134	ASP	2.4
50	uS3	123	VAL	2.4
64	uS13	70	VAL	2.4
15	eL13	91	ARG	2.4
36	eL34	2	ALA	2.4
56	uS4	104	PHE	2.4
12	uL6	2	LYS	2.4
21	eL19	152	GLU	2.4
58	uS17	70	ILE	2.4
17	eL15	132	VAL	2.4
39	eL37	29	VAL	2.4
44	eL42	93	LEU	2.4
71	eS25	54	VAL	2.4
5	uL2	54	ARG	2.4
49	uS5	174	ARG	2.4
58	uS17	144	ALA	2.4
4	uL10	14	LYS	2.4
36	eL34	24	LYS	2.4
19	uL22	125	GLN	2.4
55	eS8	183	ILE	2.4
56	uS4	48	GLN	2.4
74	eS28	40	ILE	2.4
47	uS2	118	PRO	2.4
17	eL15	64	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
58	uS17	76	VAL	2.4
64	uS13	53	ASP	2.4
41	eL39	3	ALA	2.4
51	eS4	18	TRP	2.4
52	uS7	48	PHE	2.4
61	uS19	17	TYR	2.4
50	uS3	68	GLU	2.4
64	uS13	26	ILE	2.4
16	eL14	41	GLN	2.4
7	uL4	169	LEU	2.4
10	uL30	173	LEU	2.4
23	eL21	91	LEU	2.4
23	eL21	151	LEU	2.4
44	eL42	7	THR	2.4
52	uS7	224	ASN	2.4
5	uL2	55	GLY	2.4
6	uL3	141	GLY	2.4
32	eL30	96	GLY	2.4
30	uL15	103	ASP	2.4
65	eS19	14	PHE	2.4
72	eS26	93	LYS	2.4
77	RACK	288	HIS	2.4
20	eL18	180	ARG	2.4
28	uL24	28	ARG	2.4
47	uS2	27	ARG	2.4
41	eL39	23	LEU	2.4
44	eL42	53	GLN	2.4
29	eL27	28	PRO	2.4
45	eL43	71	VAL	2.4
77	RACK	196	ASN	2.4
79	eEF2	576	LEU	2.4
8	uL18	164	LYS	2.4
4	uL10	113	ALA	2.4
6	uL3	283	TYR	2.4
15	eL13	119	TYR	2.4
46	18S	1363	U	2.4
51	eS4	147	ILE	2.4
56	uS4	45	ILE	2.4
23	eL21	80	VAL	2.4
44	eL42	83	LEU	2.4
63	eS17	26	LEU	2.4
7	uL4	55	LYS	2.4

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Mol	Chain	Res	Type	RSRZ
30	uL15	10	LYS	2.4
49	uS5	175	GLY	2.4
10	uL30	139	PRO	2.4
50	uS3	192	PRO	2.4
7	uL4	326	ARG	2.4
10	uL30	107	ARG	2.4
29	eL27	36	HIS	2.4
52	uS7	192	GLU	2.4
68	uS8	125	ILE	2.4
39	eL37	46	SER	2.4
54	eS7	154	LEU	2.4
68	uS8	94	LEU	2.4
69	uS12	57	LEU	2.4
71	eS25	64	VAL	2.4
77	RACK	140	CYS	2.4
77	RACK	298	GLY	2.4
8	uL18	166	ALA	2.4
17	eL15	63	ARG	2.4
30	uL15	44	ASN	2.4
33	eL31	74	ARG	2.4
50	uS3	23	GLU	2.4
50	uS3	143	ARG	2.4
61	uS19	61	ARG	2.4
6	uL3	325	LYS	2.4
18	uL13	41	LEU	2.4
23	eL21	31	LEU	2.4
50	uS3	7	LYS	2.4
54	eS7	44	LYS	2.4
67	eS21	79	LEU	2.4
23	eL21	67	VAL	2.4
63	eS17	105	GLN	2.4
68	uS8	30	SER	2.4
49	uS5	234	PRO	2.4
14	uL5	70	THR	2.4
77	RACK	200	ASN	2.4
66	uS10	87	HIS	2.4
72	eS26	4	LYS	2.4
13	uL16	152	LEU	2.4
41	eL39	44	TRP	2.4
49	uS5	76	LEU	2.4
20	eL18	30	VAL	2.4
51	eS4	70	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
74	eS28	48	VAL	2.4
16	eL14	27	GLN	2.4
50	uS3	195	SER	2.4
64	uS13	57	ARG	2.4
23	eL21	129	LYS	2.4
48	eS1	190	PRO	2.4
5	uL2	252	THR	2.4
38	eL36	9	ILE	2.4
10	uL30	106	LEU	2.4
28	uL24	126	LEU	2.4
61	uS19	124	THR	2.4
34	eL32	46	PHE	2.3
48	eS1	75	GLY	2.3
12	uL6	1	MET	2.3
49	uS5	57	PHE	2.3
51	eS4	109	PHE	2.3
12	uL6	189	GLU	2.3
8	uL18	240	TYR	2.3
10	uL30	184	LEU	2.3
20	eL18	93	ILE	2.3
34	eL32	5	PRO	2.3
47	uS2	67	ILE	2.3
6	uL3	57	VAL	2.3
15	eL13	6	ASN	2.3
48	eS1	207	LEU	2.3
18	uL13	118	VAL	2.3
24	eL22	94	ARG	2.3
36	eL34	5	VAL	2.3
70	eS24	71	GLY	2.3
17	eL15	15	GLN	2.3
23	eL21	3	LYS	2.3
29	eL27	6	LYS	2.3
29	eL27	5	LEU	2.3
34	eL32	42	VAL	2.3
52	uS7	188	LYS	2.3
80	ASIT	52	G	2.3
17	eL15	104	GLU	2.3
4	uL10	107	ALA	2.3
28	uL24	60	ARG	2.3
43	eL41	12	ARG	2.3
55	eS8	162	ALA	2.3
63	eS17	15	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
61	uS19	68	PRO	2.3
65	eS19	22	LEU	2.3
7	uL4	79	GLY	2.3
51	eS4	190	GLY	2.3
62	uS9	19	VAL	2.3
15	eL13	134	GLU	2.3
41	eL39	34	THR	2.3
74	eS28	39	THR	2.3
18	uL13	79	ILE	2.3
49	uS5	139	ILE	2.3
52	uS7	124	LEU	2.3
59	uS15	146	ALA	2.3
68	uS8	130	TYR	2.3
79	eEF2	633	ILE	2.3
6	uL3	72	VAL	2.3
27	uL23	66	PRO	2.3
38	eL36	40	VAL	2.3
44	eL42	25	VAL	2.3
64	uS13	29	VAL	2.3
6	uL3	338	LEU	2.3
7	uL4	238	LEU	2.3
34	eL32	77	ALA	2.3
54	eS7	151	LYS	2.3
68	uS8	14	ILE	2.3
77	RACK	210	LEU	2.3
19	uL22	115	SER	2.3
24	eL22	60	GLY	2.3
40	eL38	43	PHE	2.3
49	uS5	167	VAL	2.3
52	uS7	47	SER	2.3
14	uL5	78	GLU	2.3
16	eL14	106	ARG	2.3
53	eS6	35	GLU	2.3
71	eS25	84	GLU	2.3
72	eS26	90	GLU	2.3
10	uL30	82	LYS	2.3
33	eL31	57	GLN	2.3
37	uL29	17	LEU	2.3
50	uS3	118	ALA	2.3
17	eL15	59	PHE	2.3
22	eL20	56	GLY	2.3
67	eS21	48	GLY	2.3

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Mol	Chain	Res	Type	RSRZ
62	uS9	15	SER	2.3
11	eL8	92	LYS	2.3
11	eL8	133	LYS	2.3
48	eS1	211	HIS	2.3
50	uS3	101	GLN	2.3
80	ASIT	54	U	2.3
27	uL23	112	THR	2.3
33	eL31	75	ILE	2.3
6	uL3	89	VAL	2.3
29	eL27	95	VAL	2.3
45	eL43	16	VAL	2.3
47	uS2	187	ALA	2.3
50	uS3	30	ALA	2.3
51	eS4	90	ILE	2.3
68	uS8	101	TYR	2.3
17	eL15	193	ARG	2.3
27	uL23	116	PRO	2.3
6	uL3	109	HIS	2.3
10	uL30	181	ILE	2.3
16	eL14	35	ILE	2.3
17	eL15	11	GLN	2.3
49	uS5	207	LEU	2.3
51	eS4	207	LEU	2.3
62	uS9	65	ILE	2.3
7	uL4	195	ARG	2.3
77	RACK	160	GLU	2.3
7	uL4	329	PRO	2.3
69	uS12	118	PRO	2.3
54	eS7	34	LEU	2.3
77	RACK	301	LEU	2.3
17	eL15	188	ARG	2.3
33	eL31	32	ALA	2.3
50	uS3	100	ALA	2.3
5	uL2	177	LYS	2.3
51	eS4	91	THR	2.3
69	uS12	56	LYS	2.3
72	eS26	34	LYS	2.3
15	eL13	161	ASP	2.3
23	eL21	41	ASP	2.3
64	uS13	106	GLU	2.3
70	eS24	135	ASP	2.3
14	uL5	134	PRO	2.3

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Mol	Chain	Res	Type	RSRZ
77	RACK	91	LEU	2.3
77	RACK	112	SER	2.3
47	uS2	74	VAL	2.3
49	uS5	214	ALA	2.3
50	uS3	135	GLU	2.3
15	eL13	86	THR	2.3
77	RACK	184	ASN	2.3
20	eL18	174	ARG	2.3
51	eS4	195	ILE	2.3
20	eL18	68	ALA	2.3
23	eL21	93	VAL	2.3
17	eL15	73	ARG	2.2
18	uL13	99	LEU	2.2
29	eL27	30	ASP	2.2
48	eS1	95	ASN	2.2
60	uS11	89	THR	2.2
15	eL13	8	PRO	2.2
17	eL15	77	LYS	2.2
32	eL30	100	ILE	2.2
18	uL13	112	TYR	2.2
54	eS7	142	TYR	2.2
65	eS19	34	VAL	2.2
19	uL22	33	ALA	2.2
77	RACK	98	GLU	2.2
8	uL18	51	LEU	2.2
28	uL24	104	LEU	2.2
17	eL15	175	ASN	2.2
79	eEF2	648	ASP	2.2
15	eL13	93	ILE	2.2
7	uL4	77	VAL	2.2
23	eL21	56	PHE	2.2
50	uS3	167	PHE	2.2
67	eS21	23	ILE	2.2
44	eL42	4	VAL	2.2
44	eL42	52	GLY	2.2
72	eS26	63	ALA	2.2
83	uL11	153	GLU	2.2
25	uL14	83	LYS	2.2
30	uL15	69	TRP	2.2
64	uS13	68	ARG	2.2
64	uS13	78	HIS	2.2
64	uS13	99	HIS	2.2

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Mol	Chain	Res	Type	RSRZ
35	eL33	40	ASP	2.2
51	eS4	154	ILE	2.2
23	eL21	72	VAL	2.2
24	eL22	63	VAL	2.2
51	eS4	105	VAL	2.2
51	eS4	188	ASN	2.2
30	uL15	122	PRO	2.2
52	uS7	149	VAL	2.2
55	eS8	32	GLN	2.2
67	eS21	42	GLU	2.2
13	uL16	95	HIS	2.2
47	uS2	46	HIS	2.2
79	eEF2	267	LYS	2.2
58	uS17	109	VAL	2.2
32	eL30	69	TYR	2.2
44	eL42	84	THR	2.2
17	eL15	87	GLN	2.2
49	uS5	64	LYS	2.2
64	uS13	121	ALA	2.2
61	uS19	16	SER	2.2
15	eL13	115	ARG	2.2
49	uS5	218	ILE	2.2
57	eS10	63	TYR	2.2
60	uS11	25	ASP	2.2
65	eS19	51	GLU	2.2
55	eS8	165	LEU	2.2
22	eL20	114	HIS	2.2
47	uS2	174	TRP	2.2
51	eS4	175	PHE	2.2
44	eL42	86	LYS	2.2
52	uS7	148	ARG	2.2
56	uS4	148	VAL	2.2
28	uL24	68	GLY	2.2
49	uS5	85	PRO	2.2
64	uS13	50	ALA	2.2
70	eS24	53	ASP	2.2
7	uL4	233	LEU	2.2
61	uS19	116	LEU	2.2
63	eS17	31	ASN	2.2
68	uS8	126	LEU	2.2
83	uL11	66	ASN	2.2
13	uL16	21	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
12	uL6	41	ILE	2.2
16	eL14	94	TRP	2.2
52	uS7	156	ARG	2.2
71	eS25	68	ARG	2.2
46	18S	820	U	2.2
48	eS1	210	ILE	2.2
13	uL16	201	SER	2.2
13	uL16	181	TYR	2.2
44	eL42	30	ALA	2.2
47	uS2	36	TYR	2.2
10	uL30	108	LEU	2.2
34	eL32	75	LEU	2.2
60	uS11	12	GLN	2.2
79	eEF2	77	LEU	2.2
13	uL16	128	ARG	2.2
19	uL22	29	THR	2.2
44	eL42	8	ARG	2.2
49	uS5	51	THR	2.2
52	uS7	157	ARG	2.2
6	uL3	53	MET	2.2
8	uL18	69	ILE	2.2
23	eL21	154	VAL	2.2
47	uS2	64	ILE	2.2
19	uL22	93	GLY	2.2
8	uL18	44	TYR	2.2
18	uL13	169	ALA	2.2
8	uL18	4	GLN	2.2
14	uL5	90	GLN	2.2
22	eL20	24	LEU	2.2
27	uL23	78	ASP	2.2
72	eS26	3	LYS	2.2
4	uL10	197	PHE	2.2
18	uL13	184	THR	2.2
22	eL20	4	PHE	2.2
27	uL23	80	ASN	2.2
66	uS10	81	THR	2.2
10	uL30	170	GLU	2.2
59	uS15	134	VAL	2.2
61	uS19	20	VAL	2.2
77	RACK	151	VAL	2.2
10	uL30	105	LEU	2.2
23	eL21	102	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
52	uS7	142	PRO	2.2
60	uS11	96	PRO	2.2
64	uS13	97	ASP	2.2
52	uS7	73	THR	2.2
63	eS17	102	VAL	2.2
66	uS10	67	THR	2.2
21	eL19	173	ARG	2.2
45	eL43	24	ARG	2.2
38	eL36	43	LEU	2.2
7	uL4	284	SER	2.2
45	eL43	65	ALA	2.2
54	eS7	183	PHE	2.2
22	eL20	100	VAL	2.2
41	eL39	35	ILE	2.2
49	uS5	178	ILE	2.2
68	uS8	111	MET	2.2
52	uS7	125	THR	2.2
54	eS7	14	THR	2.2
54	eS7	55	LYS	2.2
8	uL18	200	PHE	2.1
68	uS8	58	SER	2.1
46	18S	711	U	2.1
20	eL18	176	ARG	2.1
34	eL32	50	ILE	2.1
50	uS3	175	VAL	2.1
77	RACK	249	ARG	2.1
49	uS5	163	GLY	2.1
52	uS7	122	ASN	2.1
68	uS8	2	THR	2.1
70	eS24	31	ASN	2.1
80	ASIT	71	G	2.1
6	uL3	178	LEU	2.1
13	uL16	123	HIS	2.1
77	RACK	183	LEU	2.1
17	eL15	3	ALA	2.1
10	uL30	25	GLN	2.1
1	25S	1762	C	2.1
7	uL4	308	LYS	2.1
18	uL13	4	GLU	2.1
28	uL24	70	ILE	2.1
50	uS3	190	ARG	2.1
59	uS15	150	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
29	eL27	20	GLY	2.1
49	uS5	245	ASP	2.1
56	uS4	94	ASP	2.1
28	uL24	109	LEU	2.1
77	RACK	265	LEU	2.1
33	eL31	12	TYR	2.1
19	uL22	56	ARG	2.1
31	eL29	58	LYS	2.1
31	eL29	34	GLY	2.1
18	uL13	138	LEU	2.1
7	uL4	76	ARG	2.1
7	uL4	110	ASN	2.1
19	uL22	63	PHE	2.1
23	eL21	45	ASN	2.1
26	eL24	12	LYS	2.1
79	eEF2	650	THR	2.1
18	uL13	108	ILE	2.1
53	eS6	175	ILE	2.1
17	eL15	107	GLY	2.1
13	uL16	211	ARG	2.1
27	uL23	103	TYR	2.1
35	eL33	83	ALA	2.1
37	uL29	26	LYS	2.1
39	eL37	75	LYS	2.1
55	eS8	77	ARG	2.1
64	uS13	49	LYS	2.1
20	eL18	100	THR	2.1
52	uS7	51	VAL	2.1
4	uL10	110	ARG	2.1
9	eL6	170	LYS	2.1
19	uL22	111	LYS	2.1
23	eL21	8	ARG	2.1
34	eL32	62	LYS	2.1
39	eL37	82	SER	2.1
49	uS5	66	PHE	2.1
29	eL27	44	ALA	2.1
49	uS5	122	ALA	2.1
25	uL14	85	TRP	2.1
60	uS11	77	THR	2.1
75	uS14	38	ILE	2.1
8	uL18	146	LEU	2.1
11	eL8	82	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
13	uL16	65	LEU	2.1
30	uL15	77	LYS	2.1
44	eL42	15	LYS	2.1
53	eS6	219	ARG	2.1
65	eS19	118	PRO	2.1
7	uL4	194	TYR	2.1
23	eL21	84	TYR	2.1
79	eEF2	211	PHE	2.1
67	eS21	19	ALA	2.1
78	eS31	128	ALA	2.1
23	eL21	96	ILE	2.1
47	uS2	63	ILE	2.1
64	uS13	84	TRP	2.1
68	uS8	53	ILE	2.1
70	eS24	100	VAL	2.1
45	eL43	25	GLN	2.1
48	eS1	209	ASN	2.1
49	uS5	188	LEU	2.1
50	uS3	176	LEU	2.1
56	uS4	128	LEU	2.1
64	uS13	45	LEU	2.1
77	RACK	10	ARG	2.1
7	uL4	121	ALA	2.1
22	eL20	85	SER	2.1
30	uL15	48	TYR	2.1
38	eL36	46	GLU	2.1
56	uS4	72	GLU	2.1
8	uL18	95	TRP	2.1
13	uL16	134	ILE	2.1
23	eL21	64	VAL	2.1
25	uL14	135	VAL	2.1
35	eL33	35	VAL	2.1
54	eS7	179	LYS	2.1
68	uS8	62	VAL	2.1
26	eL24	16	GLY	2.1
10	uL30	201	PHE	2.1
32	eL30	11	ASN	2.1
59	uS15	145	THR	2.1
77	RACK	174	ASN	2.1
11	eL8	226	TYR	2.1
51	eS4	54	TYR	2.1
10	uL30	228	SER	2.1

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Mol	Chain	Res	Type	RSRZ
23	eL21	115	LYS	2.1
35	eL33	12	LYS	2.1
61	uS19	58	LYS	2.1
65	eS19	10	ALA	2.1
16	eL14	60	LEU	2.1
7	uL4	237	GLN	2.1
59	uS15	139	TRP	2.1
17	eL15	65	ARG	2.1
19	uL22	30	ARG	2.1
19	uL22	61	ARG	2.1
26	eL24	47	ARG	2.1
34	eL32	119	VAL	2.1
47	uS2	41	ARG	2.1
51	eS4	61	VAL	2.1
55	eS8	195	ARG	2.1
67	eS21	80	LYS	2.1
74	eS28	18	ARG	2.1
50	uS3	154	ASP	2.1
19	uL22	91	VAL	2.1
21	eL19	159	ALA	2.1
28	uL24	58	VAL	2.1
30	uL15	123	VAL	2.1
37	uL29	33	VAL	2.1
50	uS3	144	ALA	2.1
6	uL3	246	LEU	2.1
27	uL23	140	GLY	2.1
66	uS10	76	SER	2.1
10	uL30	90	LYS	2.0
11	eL8	89	GLU	2.0
24	eL22	47	VAL	2.0
26	eL24	15	PRO	2.0
29	eL27	75	VAL	2.0
30	uL15	60	TYR	2.0
54	eS7	37	GLU	2.0
39	eL37	58	THR	2.0
27	uL23	95	ILE	2.0
51	eS4	101	LEU	2.0
59	uS15	45	LEU	2.0
59	uS15	84	ILE	2.0
80	ASIT	47	U	2.0
6	uL3	245	GLY	2.0
77	RACK	15	GLY	2.0

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Mol	Chain	Res	Type	RSRZ
36	eL34	10	ARG	2.0
38	eL36	70	ARG	2.0
53	eS6	27	PHE	2.0
58	uS17	60	PHE	2.0
68	uS8	78	ARG	2.0
46	18S	491	C	2.0
7	uL4	312	VAL	2.0
29	eL27	14	VAL	2.0
7	uL4	82	THR	2.0
10	uL30	89	ILE	2.0
13	uL16	55	ASN	2.0
37	uL29	24	LEU	2.0
51	eS4	123	LEU	2.0
55	eS8	184	LEU	2.0
20	eL18	133	LYS	2.0
63	eS17	72	LYS	2.0
79	eEF2	589	LYS	2.0
79	eEF2	667	PHE	2.0
13	uL16	212	GLU	2.0
28	uL24	54	ASP	2.0
28	uL24	62	SER	2.0
64	uS13	43	SER	2.0
37	uL29	54	VAL	2.0
5	uL2	245	LEU	2.0
6	uL3	364	LYS	2.0
10	uL30	129	LEU	2.0
10	uL30	169	ILE	2.0
44	eL42	103	ALA	2.0
27	uL23	74	LYS	2.0
34	eL32	113	LYS	2.0
49	uS5	49	LYS	2.0
59	uS15	66	ILE	2.0
69	uS12	52	ILE	2.0
74	eS28	13	ILE	2.0
56	uS4	71	PHE	2.0
77	RACK	224	ASN	2.0
83	uL11	67	ARG	2.0
14	uL5	129	VAL	2.0
27	uL23	86	VAL	2.0
38	eL36	16	LYS	2.0
72	eS26	70	LYS	2.0
79	eEF2	405	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
53	eS6	158	ILE	2.0
65	eS19	54	PHE	2.0
20	eL18	145	ASN	2.0
47	uS2	163	ASN	2.0
29	eL27	31	GLU	2.0
21	eL19	4	LEU	2.0
27	uL23	59	SER	2.0
11	eL8	76	ALA	2.0
38	eL36	7	ILE	2.0
63	eS17	57	LEU	2.0
7	uL4	102	PRO	2.0
7	uL4	149	PRO	2.0
33	eL31	26	LYS	2.0
65	eS19	25	GLN	2.0
18	uL13	104	VAL	2.0
38	eL36	50	LEU	2.0
77	RACK	290	VAL	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (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
79	DDE	eEF2	699	20/21	0.92	0.48	102,119,130,134	0
80	YG	ASIT	37	39/40	0.93	0.18	102,130,141,141	0

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	18S	1834	1/1	0.21	0.29	123,123,123,123	0
84	MG	25S	3483	1/1	0.27	0.31	105,105,105,105	0
84	MG	18S	1842	1/1	0.29	0.23	97,97,97,97	0
84	MG	eL33	201	1/1	0.40	0.34	109,109,109,109	0
84	MG	18S	1902	1/1	0.41	0.27	115,115,115,115	0
84	MG	18S	1886	1/1	0.43	0.43	108,108,108,108	0
84	MG	25S	3580	1/1	0.45	0.33	85,85,85,85	0
84	MG	25S	3645	1/1	0.47	0.37	104,104,104,104	0
84	MG	25S	3633	1/1	0.47	0.46	95,95,95,95	0
84	MG	25S	3600	1/1	0.48	0.52	100,100,100,100	0
84	MG	25S	3506	1/1	0.48	0.18	96,96,96,96	0
84	MG	18S	1899	1/1	0.49	0.40	97,97,97,97	0
84	MG	25S	3679	1/1	0.49	0.33	105,105,105,105	0
84	MG	eS4	303	1/1	0.50	0.22	96,96,96,96	0
84	MG	25S	3515	1/1	0.51	0.54	122,122,122,122	0
84	MG	25S	3707	1/1	0.55	0.17	78,78,78,78	0
84	MG	18S	1920	1/1	0.55	0.20	82,82,82,82	0
84	MG	25S	3656	1/1	0.55	0.59	128,128,128,128	0
84	MG	25S	3547	1/1	0.56	0.55	109,109,109,109	0
84	MG	18S	1825	1/1	0.57	1.52	122,122,122,122	0
84	MG	eL42	201	1/1	0.57	0.60	110,110,110,110	0
84	MG	25S	3702	1/1	0.58	0.71	117,117,117,117	0
84	MG	18S	1912	1/1	0.59	0.22	92,92,92,92	0
84	MG	18S	1896	1/1	0.61	0.49	109,109,109,109	0
84	MG	25S	3663	1/1	0.61	0.25	97,97,97,97	0
84	MG	25S	3438	1/1	0.61	0.54	85,85,85,85	0
84	MG	18S	1911	1/1	0.64	0.19	93,93,93,93	0
84	MG	25S	3649	1/1	0.64	0.79	129,129,129,129	0
84	MG	25S	3644	1/1	0.64	0.23	88,88,88,88	0
84	MG	25S	3714	1/1	0.64	0.43	112,112,112,112	0
84	MG	25S	3668	1/1	0.65	0.28	87,87,87,87	0
84	MG	25S	3578	1/1	0.65	0.42	107,107,107,107	0
84	MG	eL42	202	1/1	0.66	0.20	90,90,90,90	0
84	MG	25S	3632	1/1	0.66	0.31	86,86,86,86	0
84	MG	uS12	201	1/1	0.66	0.30	101,101,101,101	0
84	MG	18S	1874	1/1	0.67	0.17	81,81,81,81	0
84	MG	25S	3534	1/1	0.68	0.97	86,86,86,86	0
84	MG	25S	3716	1/1	0.68	0.21	79,79,79,79	0
84	MG	25S	3472	1/1	0.68	0.44	82,82,82,82	0
84	MG	25S	3453	1/1	0.69	0.36	75,75,75,75	0
84	MG	18S	1872	1/1	0.69	0.22	90,90,90,90	0
84	MG	25S	3621	1/1	0.69	0.21	76,76,76,76	0
84	MG	mRNA	600	1/1	0.69	0.18	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	25S	3498	1/1	0.70	0.17	97,97,97,97	0
84	MG	25S	3687	1/1	0.71	0.50	109,109,109,109	0
84	MG	25S	3689	1/1	0.71	0.26	121,121,121,121	0
84	MG	25S	3700	1/1	0.71	0.28	105,105,105,105	0
84	MG	18S	1922	1/1	0.71	0.25	91,91,91,91	0
84	MG	25S	3623	1/1	0.71	0.26	80,80,80,80	0
84	MG	eL41	101	1/1	0.71	0.12	70,70,70,70	0
84	MG	18S	1864	1/1	0.71	0.22	103,103,103,103	0
84	MG	25S	3695	1/1	0.72	0.25	95,95,95,95	0
84	MG	25S	3672	1/1	0.72	0.21	89,89,89,89	0
84	MG	25S	3488	1/1	0.72	0.42	94,94,94,94	0
84	MG	18S	1850	1/1	0.73	0.15	77,77,77,77	0
84	MG	25S	3508	1/1	0.73	0.26	87,87,87,87	0
84	MG	uS12	202	1/1	0.73	0.33	84,84,84,84	0
84	MG	PSIT	101	1/1	0.73	0.14	87,87,87,87	0
84	MG	25S	3655	1/1	0.73	0.25	101,101,101,101	0
84	MG	eL31	201	1/1	0.74	0.26	93,93,93,93	0
84	MG	25S	3646	1/1	0.74	0.23	85,85,85,85	0
84	MG	25S	3504	1/1	0.74	0.37	91,91,91,91	0
84	MG	uS14	101	1/1	0.74	0.18	82,82,82,82	0
84	MG	25S	3532	1/1	0.74	0.42	73,73,73,73	0
84	MG	25S	3561	1/1	0.74	0.28	61,61,61,61	0
84	MG	eL15	301	1/1	0.75	0.23	83,83,83,83	0
84	MG	18S	1832	1/1	0.75	0.20	105,105,105,105	0
84	MG	25S	3693	1/1	0.75	0.23	84,84,84,84	0
84	MG	25S	3556	1/1	0.75	0.37	86,86,86,86	0
84	MG	18S	1900	1/1	0.75	0.23	72,72,72,72	0
84	MG	25S	3708	1/1	0.75	0.36	86,86,86,86	0
84	MG	25S	3696	1/1	0.75	0.35	87,87,87,87	0
84	MG	25S	3615	1/1	0.75	0.48	110,110,110,110	0
85	ZN	eS31	201	1/1	0.75	0.08	210,210,210,210	0
84	MG	25S	3610	1/1	0.76	0.27	78,78,78,78	0
84	MG	18S	1893	1/1	0.76	0.30	75,75,75,75	0
84	MG	eS4	302	1/1	0.76	0.25	83,83,83,83	0
84	MG	25S	3709	1/1	0.76	0.29	95,95,95,95	0
84	MG	25S	3503	1/1	0.76	0.29	92,92,92,92	0
84	MG	25S	3512	1/1	0.76	0.30	101,101,101,101	0
84	MG	18S	1901	1/1	0.76	0.37	115,115,115,115	0
84	MG	25S	3704	1/1	0.76	0.21	106,106,106,106	0
84	MG	25S	3567	1/1	0.76	0.53	108,108,108,108	0
84	MG	18S	1885	1/1	0.76	0.27	79,79,79,79	0
84	MG	25S	3564	1/1	0.77	0.27	105,105,105,105	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	18S	1817	1/1	0.77	0.19	90,90,90,90	0
84	MG	ASIT	101	1/1	0.77	0.33	107,107,107,107	0
84	MG	25S	3566	1/1	0.77	0.29	77,77,77,77	0
84	MG	PSIT	105	1/1	0.77	0.24	100,100,100,100	0
84	MG	25S	3521	1/1	0.77	0.14	66,66,66,66	0
84	MG	25S	3484	1/1	0.77	0.41	87,87,87,87	0
84	MG	18S	1906	1/1	0.78	0.23	91,91,91,91	0
84	MG	eL30	201	1/1	0.78	0.62	81,81,81,81	0
84	MG	PSIT	102	1/1	0.78	0.48	86,86,86,86	0
84	MG	25S	3697	1/1	0.78	0.34	86,86,86,86	0
84	MG	25S	3526	1/1	0.78	0.34	92,92,92,92	0
84	MG	18S	1881	1/1	0.78	0.18	85,85,85,85	0
84	MG	25S	3589	1/1	0.79	0.37	77,77,77,77	0
84	MG	25S	3607	1/1	0.79	0.35	90,90,90,90	0
84	MG	eS6	302	1/1	0.79	0.11	119,119,119,119	0
84	MG	18S	1919	1/1	0.79	0.23	92,92,92,92	0
84	MG	18S	1859	1/1	0.79	0.32	124,124,124,124	0
84	MG	18S	1821	1/1	0.79	0.17	135,135,135,135	0
84	MG	25S	3688	1/1	0.80	0.33	98,98,98,98	0
84	MG	25S	3586	1/1	0.80	0.41	83,83,83,83	0
84	MG	18S	1879	1/1	0.80	0.27	135,135,135,135	0
84	MG	PSIT	106	1/1	0.80	0.19	92,92,92,92	0
84	MG	58S	207	1/1	0.80	0.34	104,104,104,104	0
84	MG	uL18	301	1/1	0.80	0.30	109,109,109,109	0
84	MG	25S	3669	1/1	0.81	0.24	84,84,84,84	0
84	MG	25S	3518	1/1	0.81	0.55	95,95,95,95	0
84	MG	25S	3626	1/1	0.81	0.19	95,95,95,95	0
84	MG	eL18	201	1/1	0.81	0.25	89,89,89,89	0
84	MG	eEF2	906	1/1	0.81	0.34	110,110,110,110	0
84	MG	25S	3713[A]	1/1	0.81	0.39	55,55,55,55	1
84	MG	25S	3713[B]	1/1	0.81	0.39	72,72,72,72	1
84	MG	25S	3694	1/1	0.81	0.29	88,88,88,88	0
84	MG	18S	1892	1/1	0.81	0.20	88,88,88,88	0
84	MG	25S	3501	1/1	0.81	0.20	77,77,77,77	0
84	MG	18S	1853	1/1	0.81	0.31	70,70,70,70	0
84	MG	AB	202	1/1	0.81	0.32	73,73,73,73	0
84	MG	18S	1888	1/1	0.82	0.15	61,61,61,61	0
84	MG	25S	3590	1/1	0.82	0.45	93,93,93,93	0
84	MG	18S	1875	1/1	0.82	0.20	75,75,75,75	0
84	MG	25S	3636	1/1	0.82	0.47	95,95,95,95	0
84	MG	25S	3604	1/1	0.82	0.36	82,82,82,82	0
84	MG	25S	3622	1/1	0.82	1.65	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	25S	3660	1/1	0.82	0.15	86,86,86,86	0
84	MG	25S	3591	1/1	0.83	0.19	99,99,99,99	0
84	MG	18S	1898	1/1	0.83	0.29	89,89,89,89	0
84	MG	25S	3490	1/1	0.83	0.20	80,80,80,80	0
84	MG	18S	1913	1/1	0.83	0.25	104,104,104,104	0
84	MG	25S	3516	1/1	0.83	0.23	68,68,68,68	0
84	MG	25S	3415	1/1	0.83	0.29	78,78,78,78	0
84	MG	18S	1866	1/1	0.83	0.33	66,66,66,66	0
84	MG	25S	3637	1/1	0.84	0.35	86,86,86,86	0
84	MG	eS6	301	1/1	0.84	0.06	137,137,137,137	0
84	MG	25S	3670	1/1	0.84	0.19	85,85,85,85	0
84	MG	PSIT	103	1/1	0.84	0.22	125,125,125,125	0
84	MG	25S	3502	1/1	0.84	0.33	97,97,97,97	0
84	MG	25S	3698	1/1	0.84	0.20	82,82,82,82	0
84	MG	18S	1883	1/1	0.84	0.20	112,112,112,112	0
85	ZN	eL40	202	1/1	0.84	0.38	170,170,170,170	0
84	MG	18S	1851	1/1	0.84	0.11	82,82,82,82	0
84	MG	18S	1915	1/1	0.85	0.11	96,96,96,96	0
84	MG	eEF2	903	1/1	0.85	0.23	78,78,78,78	0
84	MG	25S	3692	1/1	0.85	0.36	88,88,88,88	0
84	MG	25S	3587	1/1	0.85	0.11	70,70,70,70	0
84	MG	18S	1814	1/1	0.85	0.40	88,88,88,88	0
84	MG	25S	3701	1/1	0.85	0.18	105,105,105,105	0
84	MG	25S	3674	1/1	0.86	0.13	102,102,102,102	0
84	MG	18S	1917	1/1	0.86	0.17	71,71,71,71	0
84	MG	25S	3715	1/1	0.86	0.52	97,97,97,97	0
84	MG	18S	1816	1/1	0.86	0.21	70,70,70,70	0
84	MG	25S	3677	1/1	0.86	0.29	85,85,85,85	0
84	MG	25S	3699	1/1	0.86	0.25	76,76,76,76	0
84	MG	25S	3410	1/1	0.86	0.25	57,57,57,57	0
84	MG	18S	1826	1/1	0.86	0.43	86,86,86,86	0
84	MG	uL3	401	1/1	0.86	0.35	60,60,60,60	0
84	MG	25S	3549	1/1	0.86	0.41	89,89,89,89	0
84	MG	25S	3550	1/1	0.86	0.17	82,82,82,82	0
84	MG	18S	1897	1/1	0.86	0.36	102,102,102,102	0
84	MG	25S	3552	1/1	0.86	0.43	97,97,97,97	0
84	MG	eEF2	904	1/1	0.86	0.31	82,82,82,82	0
84	MG	eL20	201	1/1	0.86	0.55	79,79,79,79	0
84	MG	18S	1852	1/1	0.86	0.31	71,71,71,71	0
84	MG	25S	3585	1/1	0.86	0.17	76,76,76,76	0
84	MG	25S	3477	1/1	0.86	0.23	74,74,74,74	0
84	MG	25S	3482	1/1	0.86	0.34	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	18S	1908	1/1	0.86	0.17	81,81,81,81	0
84	MG	eL40	201	1/1	0.86	0.41	98,98,98,98	0
84	MG	25S	3588	1/1	0.86	0.29	78,78,78,78	0
84	MG	25S	3519	1/1	0.86	0.27	102,102,102,102	0
84	MG	18S	1914	1/1	0.86	0.22	85,85,85,85	0
84	MG	25S	3460	1/1	0.87	0.32	69,69,69,69	0
84	MG	25S	3647	1/1	0.87	0.44	98,98,98,98	0
84	MG	25S	3628	1/1	0.87	0.46	107,107,107,107	0
84	MG	25S	3640	1/1	0.87	0.41	107,107,107,107	0
84	MG	25S	3641	1/1	0.87	0.14	93,93,93,93	0
84	MG	25S	3717	1/1	0.87	0.12	88,88,88,88	0
84	MG	18S	1828	1/1	0.87	0.28	83,83,83,83	0
84	MG	18S	1921	1/1	0.87	0.41	81,81,81,81	0
84	MG	25S	3466	1/1	0.87	0.47	75,75,75,75	0
84	MG	25S	3439	1/1	0.87	0.27	63,63,63,63	0
84	MG	18S	1839	1/1	0.87	0.54	85,85,85,85	0
84	MG	25S	3682	1/1	0.87	0.11	98,98,98,98	0
85	ZN	eL37	101	1/1	0.87	0.27	124,124,124,124	0
84	MG	25S	3685	1/1	0.87	0.38	99,99,99,99	0
85	ZN	eL43	101	1/1	0.87	0.30	124,124,124,124	0
84	MG	18S	1802	1/1	0.87	0.26	56,56,56,56	0
84	MG	25S	3538	1/1	0.88	0.33	79,79,79,79	0
84	MG	25S	3540	1/1	0.88	0.23	63,63,63,63	0
84	MG	25S	3681	1/1	0.88	0.64	113,113,113,113	0
84	MG	uS12	203	1/1	0.88	0.34	93,93,93,93	0
84	MG	25S	3665	1/1	0.88	0.33	87,87,87,87	0
84	MG	25S	3572	1/1	0.88	1.44	111,111,111,111	0
84	MG	18S	1831	1/1	0.88	0.21	114,114,114,114	0
84	MG	25S	3686	1/1	0.88	0.16	110,110,110,110	0
84	MG	25S	3652	1/1	0.88	0.34	67,67,67,67	0
84	MG	25S	3654	1/1	0.88	0.56	112,112,112,112	0
84	MG	18S	1841	1/1	0.88	0.19	87,87,87,87	0
84	MG	25S	3671	1/1	0.88	0.31	75,75,75,75	0
84	MG	18S	1891	1/1	0.88	0.33	133,133,133,133	0
84	MG	18S	1847	1/1	0.88	0.14	61,61,61,61	0
84	MG	58S	203	1/1	0.88	0.18	117,117,117,117	0
84	MG	58S	204	1/1	0.88	0.48	76,76,76,76	0
84	MG	25S	3456	1/1	0.88	0.10	73,73,73,73	0
84	MG	uL2	303	1/1	0.88	0.21	91,91,91,91	0
84	MG	25S	3625	1/1	0.88	0.92	96,96,96,96	0
84	MG	25S	3442	1/1	0.89	0.34	67,67,67,67	0
84	MG	25S	3440	1/1	0.89	0.32	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	25S	3527	1/1	0.89	0.31	81,81,81,81	0
84	MG	25S	3496	1/1	0.89	0.32	75,75,75,75	0
84	MG	uL22	201	1/1	0.89	0.22	78,78,78,78	0
84	MG	25S	3486	1/1	0.89	0.24	57,57,57,57	0
84	MG	18S	1840	1/1	0.89	0.28	85,85,85,85	0
84	MG	18S	1873	1/1	0.89	0.20	85,85,85,85	0
84	MG	25S	3535	1/1	0.89	0.10	85,85,85,85	0
84	MG	25S	3499	1/1	0.89	0.21	78,78,78,78	0
84	MG	58S	206	1/1	0.89	0.29	87,87,87,87	0
84	MG	25S	3507	1/1	0.89	0.22	62,62,62,62	0
84	MG	25S	3462	1/1	0.90	0.33	64,64,64,64	0
84	MG	25S	3505	1/1	0.90	0.19	71,71,71,71	0
84	MG	18S	1905	1/1	0.90	0.18	80,80,80,80	0
84	MG	25S	3617	1/1	0.90	0.48	103,103,103,103	0
84	MG	25S	3426	1/1	0.90	0.35	50,50,50,50	0
84	MG	18S	1909	1/1	0.90	0.21	94,94,94,94	0
84	MG	25S	3574	1/1	0.90	0.27	73,73,73,73	0
84	MG	25S	3489	1/1	0.90	0.16	110,110,110,110	0
84	MG	25S	3594	1/1	0.90	0.15	102,102,102,102	0
84	MG	18S	1815	1/1	0.90	0.28	63,63,63,63	0
84	MG	25S	3598	1/1	0.90	0.25	69,69,69,69	0
84	MG	25S	3468	1/1	0.90	0.23	91,91,91,91	0
84	MG	25S	3631	1/1	0.90	0.13	101,101,101,101	0
84	MG	18S	1822	1/1	0.90	0.37	75,75,75,75	0
84	MG	18S	1824	1/1	0.90	0.33	79,79,79,79	0
84	MG	25S	3421	1/1	0.90	0.28	81,81,81,81	0
84	MG	25S	3544	1/1	0.90	0.45	71,71,71,71	0
84	MG	18S	1869	1/1	0.90	0.19	75,75,75,75	0
84	MG	25S	3609	1/1	0.90	0.57	108,108,108,108	0
84	MG	25S	3514	1/1	0.91	0.63	89,89,89,89	0
84	MG	eS4	301	1/1	0.91	0.16	84,84,84,84	0
84	MG	18S	1806	1/1	0.91	0.36	60,60,60,60	0
84	MG	25S	3683	1/1	0.91	0.18	75,75,75,75	0
84	MG	25S	3684	1/1	0.91	0.12	91,91,91,91	0
84	MG	25S	3536	1/1	0.91	0.20	86,86,86,86	0
84	MG	18S	1857	1/1	0.91	0.10	97,97,97,97	0
84	MG	25S	3551	1/1	0.91	0.59	80,80,80,80	0
84	MG	18S	1818	1/1	0.91	0.39	87,87,87,87	0
84	MG	25S	3705	1/1	0.91	0.22	72,72,72,72	0
84	MG	25S	3627	1/1	0.91	0.14	84,84,84,84	0
84	MG	25S	3464	1/1	0.91	0.13	65,65,65,65	0
84	MG	18S	1907	1/1	0.91	0.17	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	25S	3630	1/1	0.91	0.26	99,99,99,99	0
84	MG	25S	3614	1/1	0.91	0.29	105,105,105,105	0
84	MG	25S	3555	1/1	0.91	0.23	62,62,62,62	0
84	MG	25S	3452	1/1	0.91	0.42	79,79,79,79	0
84	MG	25S	3463	1/1	0.91	0.25	78,78,78,78	0
84	MG	18S	1882	1/1	0.91	0.14	75,75,75,75	0
84	MG	25S	3493	1/1	0.91	0.21	77,77,77,77	0
84	MG	25S	3680	1/1	0.91	0.12	78,78,78,78	0
84	MG	AB	201	1/1	0.91	0.36	102,102,102,102	0
84	MG	25S	3658	1/1	0.91	0.44	78,78,78,78	0
84	MG	AB	205	1/1	0.91	0.32	101,101,101,101	0
84	MG	eS1	301	1/1	0.92	0.07	127,127,127,127	0
84	MG	25S	3635	1/1	0.92	0.13	80,80,80,80	0
84	MG	18S	1856	1/1	0.92	0.30	63,63,63,63	0
84	MG	25S	3542	1/1	0.92	0.14	98,98,98,98	0
84	MG	uL18	302	1/1	0.92	0.28	75,75,75,75	0
84	MG	18S	1860	1/1	0.92	0.22	79,79,79,79	0
84	MG	uS19	201	1/1	0.92	0.31	101,101,101,101	0
84	MG	25S	3543	1/1	0.92	0.23	81,81,81,81	0
84	MG	25S	3639	1/1	0.92	0.32	90,90,90,90	0
84	MG	25S	3520	1/1	0.92	0.08	82,82,82,82	0
84	MG	25S	3691	1/1	0.92	0.14	87,87,87,87	0
84	MG	25S	3558	1/1	0.92	0.24	64,64,64,64	0
84	MG	25S	3470	1/1	0.92	0.23	83,83,83,83	0
84	MG	25S	3563	1/1	0.92	0.24	82,82,82,82	0
84	MG	18S	1877	1/1	0.92	0.07	99,99,99,99	0
84	MG	25S	3548	1/1	0.92	0.14	79,79,79,79	0
84	MG	25S	3675	1/1	0.92	0.18	66,66,66,66	0
84	MG	25S	3629[A]	1/1	0.92	0.36	69,69,69,69	1
84	MG	25S	3629[B]	1/1	0.92	0.36	74,74,74,74	1
84	MG	18S	1884	1/1	0.92	0.28	83,83,83,83	0
84	MG	25S	3491	1/1	0.92	0.23	63,63,63,63	0
84	MG	25S	3467	1/1	0.92	0.20	69,69,69,69	0
84	MG	25S	3419	1/1	0.92	0.20	48,48,48,48	0
84	MG	25S	3620	1/1	0.92	0.32	85,85,85,85	0
84	MG	25S	3634	1/1	0.92	0.14	84,84,84,84	0
84	MG	25S	3471	1/1	0.93	0.25	64,64,64,64	0
84	MG	25S	3413	1/1	0.93	0.31	55,55,55,55	0
84	MG	25S	3459	1/1	0.93	0.43	77,77,77,77	0
84	MG	18S	1894	1/1	0.93	0.23	92,92,92,92	0
84	MG	25S	3619	1/1	0.93	0.14	83,83,83,83	0
84	MG	25S	3479	1/1	0.93	0.42	94,94,94,94	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	eEF2	905	1/1	0.93	0.15	87,87,87,87	0
84	MG	AB	203	1/1	0.93	0.29	71,71,71,71	0
84	MG	25S	3581[A]	1/1	0.93	0.54	86,86,86,86	1
84	MG	25S	3581[B]	1/1	0.93	0.54	87,87,87,87	1
84	MG	25S	3602	1/1	0.93	0.27	64,64,64,64	0
84	MG	25S	3624	1/1	0.93	0.34	115,115,115,115	0
84	MG	25S	3487	1/1	0.93	0.43	72,72,72,72	0
84	MG	25S	3509	1/1	0.93	0.24	76,76,76,76	0
84	MG	25S	3494	1/1	0.93	0.28	78,78,78,78	0
84	MG	18S	1863	1/1	0.93	0.15	85,85,85,85	0
84	MG	25S	3513	1/1	0.93	0.09	67,67,67,67	0
84	MG	uS15	201	1/1	0.93	0.14	63,63,63,63	0
84	MG	18S	1910	1/1	0.93	0.15	71,71,71,71	0
84	MG	AB	204	1/1	0.94	0.26	107,107,107,107	0
84	MG	25S	3522	1/1	0.94	0.10	67,67,67,67	0
84	MG	18S	1916	1/1	0.94	0.24	81,81,81,81	0
84	MG	18S	1819	1/1	0.94	0.33	62,62,62,62	0
84	MG	25S	3603	1/1	0.94	0.18	84,84,84,84	0
84	MG	25S	3458	1/1	0.94	0.35	68,68,68,68	0
84	MG	25S	3576	1/1	0.94	0.19	136,136,136,136	0
84	MG	18S	1880	1/1	0.94	0.06	74,74,74,74	0
84	MG	25S	3447	1/1	0.94	0.25	66,66,66,66	0
84	MG	25S	3510	1/1	0.94	0.52	91,91,91,91	0
84	MG	25S	3449	1/1	0.94	0.06	65,65,65,65	0
84	MG	25S	3553	1/1	0.94	0.34	82,82,82,82	0
84	MG	25S	3584	1/1	0.94	0.13	68,68,68,68	0
84	MG	18S	1833	1/1	0.94	0.10	105,105,105,105	0
84	MG	25S	3485	1/1	0.94	0.29	61,61,61,61	0
84	MG	18S	1835	1/1	0.94	0.21	79,79,79,79	0
84	MG	25S	3461[A]	1/1	0.94	0.45	68,68,68,68	1
84	MG	25S	3706	1/1	0.94	0.23	76,76,76,76	0
84	MG	25S	3461[B]	1/1	0.94	0.45	68,68,68,68	1
84	MG	eS26	201	1/1	0.94	0.33	52,52,52,52	0
84	MG	25S	3560	1/1	0.94	0.31	78,78,78,78	0
84	MG	25S	3412	1/1	0.94	0.40	59,59,59,59	0
84	MG	25S	3712	1/1	0.94	0.15	72,72,72,72	0
84	MG	25S	3562	1/1	0.94	0.25	57,57,57,57	0
84	MG	25S	3473	1/1	0.94	0.40	79,79,79,79	0
84	MG	25S	3653	1/1	0.94	0.79	72,72,72,72	0
84	MG	18S	1855	1/1	0.94	0.22	65,65,65,65	0
84	MG	25S	3592	1/1	0.94	0.14	111,111,111,111	0
84	MG	25S	3475	1/1	0.94	0.34	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	18S	1803	1/1	0.94	0.18	54,54,54,54	0
84	MG	25S	3596	1/1	0.94	0.28	51,51,51,51	0
84	MG	18S	1862	1/1	0.94	0.14	62,62,62,62	0
85	ZN	eL34	201	1/1	0.94	0.11	120,120,120,120	0
84	MG	18S	1813	1/1	0.94	0.24	109,109,109,109	0
84	MG	25S	3403	1/1	0.94	0.30	54,54,54,54	0
84	MG	25S	3599	1/1	0.94	0.17	91,91,91,91	0
84	MG	25S	3445	1/1	0.94	0.24	72,72,72,72	0
86	GTP	eEF2	907	32/32	0.94	0.19	74,93,109,114	0
84	MG	25S	3424	1/1	0.95	0.33	61,61,61,61	0
84	MG	25S	3559	1/1	0.95	0.20	77,77,77,77	0
84	MG	25S	3664	1/1	0.95	0.43	108,108,108,108	0
84	MG	25S	3711	1/1	0.95	0.18	94,94,94,94	0
84	MG	25S	3406	1/1	0.95	0.29	74,74,74,74	0
84	MG	25S	3666	1/1	0.95	0.29	85,85,85,85	0
84	MG	25S	3434	1/1	0.95	0.33	56,56,56,56	0
84	MG	25S	3642	1/1	0.95	0.17	91,91,91,91	0
84	MG	18S	1903	1/1	0.95	0.12	97,97,97,97	0
84	MG	eL30	202	1/1	0.95	0.22	69,69,69,69	0
84	MG	18S	1830	1/1	0.95	0.27	69,69,69,69	0
84	MG	25S	3437	1/1	0.95	0.23	64,64,64,64	0
84	MG	25S	3465	1/1	0.95	0.27	69,69,69,69	0
84	MG	25S	3420	1/1	0.95	0.27	58,58,58,58	0
84	MG	18S	1876	1/1	0.95	0.34	83,83,83,83	0
84	MG	25S	3673	1/1	0.95	0.14	63,63,63,63	0
84	MG	25S	3616	1/1	0.95	0.20	63,63,63,63	0
84	MG	18S	1836	1/1	0.95	0.15	86,86,86,86	0
84	MG	25S	3582	1/1	0.95	0.26	78,78,78,78	0
84	MG	25S	3618[A]	1/1	0.95	0.26	61,61,61,61	1
84	MG	25S	3618[B]	1/1	0.95	0.26	59,59,59,59	1
84	MG	18S	1805	1/1	0.95	0.36	73,73,73,73	0
84	MG	25S	3583	1/1	0.95	0.16	90,90,90,90	0
84	MG	18S	1811	1/1	0.95	0.14	58,58,58,58	0
84	MG	25S	3476	1/1	0.95	0.21	64,64,64,64	0
84	MG	25S	3418	1/1	0.95	0.33	50,50,50,50	0
84	MG	25S	3657	1/1	0.95	0.25	78,78,78,78	0
84	MG	25S	3571	1/1	0.95	0.34	118,118,118,118	0
84	MG	18S	1918	1/1	0.96	0.03	121,121,121,121	0
84	MG	18S	1808	1/1	0.96	0.27	65,65,65,65	0
84	MG	25S	3595	1/1	0.96	0.12	86,86,86,86	0
84	MG	18S	1846	1/1	0.96	0.18	63,63,63,63	0
84	MG	18S	1812	1/1	0.96	0.29	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	uL2	301	1/1	0.96	0.32	64,64,64,64	0
84	MG	uL2	302	1/1	0.96	0.09	61,61,61,61	0
84	MG	18S	1889	1/1	0.96	0.11	58,58,58,58	0
84	MG	18S	1890	1/1	0.96	0.12	71,71,71,71	0
84	MG	25S	3435	1/1	0.96	0.22	71,71,71,71	0
84	MG	25S	3531	1/1	0.96	0.09	78,78,78,78	0
84	MG	25S	3511	1/1	0.96	0.24	80,80,80,80	0
84	MG	25S	3667	1/1	0.96	0.35	100,100,100,100	0
84	MG	25S	3436	1/1	0.96	0.36	69,69,69,69	0
84	MG	25S	3500	1/1	0.96	0.15	87,87,87,87	0
84	MG	25S	3416	1/1	0.96	0.44	63,63,63,63	0
84	MG	18S	1861	1/1	0.96	0.32	54,54,54,54	0
84	MG	25S	3401	1/1	0.96	0.37	58,58,58,58	0
84	MG	eEF2	902	1/1	0.96	0.29	75,75,75,75	0
84	MG	25S	3478	1/1	0.96	0.34	79,79,79,79	0
84	MG	25S	3517	1/1	0.96	0.27	96,96,96,96	0
84	MG	25S	3450	1/1	0.96	0.17	62,62,62,62	0
84	MG	18S	1904	1/1	0.96	0.15	87,87,87,87	0
84	MG	18S	1867	1/1	0.96	0.34	92,92,92,92	0
84	MG	25S	3480	1/1	0.96	0.37	69,69,69,69	0
84	MG	18S	1870	1/1	0.96	0.24	88,88,88,88	0
84	MG	18S	1871	1/1	0.96	0.04	73,73,73,73	0
84	MG	25S	3451	1/1	0.96	0.30	51,51,51,51	0
84	MG	25S	3678	1/1	0.96	0.08	94,94,94,94	0
84	MG	25S	3407	1/1	0.96	0.48	61,61,61,61	0
84	MG	25S	3570	1/1	0.96	0.30	83,83,83,83	0
84	MG	58S	202	1/1	0.96	0.15	97,97,97,97	0
84	MG	25S	3495	1/1	0.96	0.25	84,84,84,84	0
85	ZN	eL42	203	1/1	0.96	0.15	113,113,113,113	0
84	MG	18S	1838	1/1	0.96	0.22	60,60,60,60	0
84	MG	25S	3523	1/1	0.96	0.12	80,80,80,80	0
84	MG	25S	3404	1/1	0.96	0.29	61,61,61,61	0
84	MG	25S	3643	1/1	0.97	0.09	69,69,69,69	0
84	MG	25S	3492	1/1	0.97	0.24	67,67,67,67	0
84	MG	25S	3573	1/1	0.97	0.35	74,74,74,74	0
84	MG	18S	1827	1/1	0.97	0.39	70,70,70,70	0
84	MG	25S	3429	1/1	0.97	0.30	72,72,72,72	0
84	MG	18S	1829	1/1	0.97	0.15	62,62,62,62	0
84	MG	25S	3597	1/1	0.97	0.20	62,62,62,62	0
84	MG	25S	3648	1/1	0.97	0.20	87,87,87,87	0
84	MG	25S	3710	1/1	0.97	0.24	100,100,100,100	0
84	MG	25S	3448	1/1	0.97	0.23	88,88,88,88	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	25S	3554	1/1	0.97	0.26	74,74,74,74	0
84	MG	25S	3431	1/1	0.97	0.46	61,61,61,61	0
84	MG	25S	3601	1/1	0.97	0.13	72,72,72,72	0
84	MG	18S	1837	1/1	0.97	0.32	61,61,61,61	0
84	MG	25S	3432	1/1	0.97	0.39	67,67,67,67	0
84	MG	25S	3409	1/1	0.97	0.33	62,62,62,62	0
84	MG	25S	3539	1/1	0.97	0.28	55,55,55,55	0
84	MG	18S	1801	1/1	0.97	0.26	66,66,66,66	0
84	MG	25S	3427	1/1	0.97	0.41	67,67,67,67	0
84	MG	18S	1844	1/1	0.97	0.26	77,77,77,77	0
84	MG	25S	3541	1/1	0.97	0.20	74,74,74,74	0
84	MG	18S	1804	1/1	0.97	0.21	71,71,71,71	0
84	MG	18S	1848	1/1	0.97	0.28	83,83,83,83	0
84	MG	eEF2	901	1/1	0.97	0.10	66,66,66,66	0
84	MG	18S	1849	1/1	0.97	0.20	60,60,60,60	0
84	MG	18S	1895	1/1	0.97	0.20	92,92,92,92	0
84	MG	25S	3690	1/1	0.97	0.22	66,66,66,66	0
84	MG	25S	3662	1/1	0.97	0.27	66,66,66,66	0
84	MG	25S	3444	1/1	0.97	0.24	77,77,77,77	0
84	MG	18S	1810	1/1	0.97	0.43	64,64,64,64	0
84	MG	18S	1854	1/1	0.97	0.40	80,80,80,80	0
84	MG	25S	3612	1/1	0.97	0.27	74,74,74,74	0
84	MG	25S	3613	1/1	0.97	0.15	87,87,87,87	0
84	MG	PSIT	104	1/1	0.97	0.17	104,104,104,104	0
84	MG	25S	3428	1/1	0.97	0.30	64,64,64,64	0
84	MG	25S	3524	1/1	0.97	0.29	89,89,89,89	0
84	MG	58S	205	1/1	0.97	0.21	93,93,93,93	0
84	MG	25S	3565	1/1	0.97	0.34	93,93,93,93	0
84	MG	25S	3638	1/1	0.97	0.09	83,83,83,83	0
84	MG	25S	3446[A]	1/1	0.97	0.38	70,70,70,70	1
84	MG	25S	3446[B]	1/1	0.97	0.38	73,73,73,73	1
84	MG	18S	1865	1/1	0.97	0.36	62,62,62,62	0
84	MG	25S	3528	1/1	0.97	0.12	75,75,75,75	0
84	MG	25S	3529	1/1	0.97	0.27	49,49,49,49	0
84	MG	18S	1843	1/1	0.98	0.23	72,72,72,72	0
84	MG	18S	1807	1/1	0.98	0.30	60,60,60,60	0
84	MG	25S	3423	1/1	0.98	0.22	65,65,65,65	0
84	MG	18S	1809	1/1	0.98	0.32	91,91,91,91	0
84	MG	18S	1887	1/1	0.98	0.13	49,49,49,49	0
84	MG	25S	3443	1/1	0.98	0.33	65,65,65,65	0
84	MG	25S	3433	1/1	0.98	0.34	45,45,45,45	0
84	MG	25S	3525	1/1	0.98	0.17	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	25S	3455	1/1	0.98	0.32	44,44,44,44	0
84	MG	25S	3569	1/1	0.98	0.20	72,72,72,72	0
84	MG	25S	3402[A]	1/1	0.98	0.36	62,62,62,62	1
84	MG	25S	3497	1/1	0.98	0.35	84,84,84,84	0
84	MG	25S	3703	1/1	0.98	0.21	118,118,118,118	0
84	MG	25S	3457	1/1	0.98	0.46	86,86,86,86	0
84	MG	25S	3676	1/1	0.98	0.16	90,90,90,90	0
84	MG	18S	1820	1/1	0.98	0.23	77,77,77,77	0
84	MG	25S	3530	1/1	0.98	0.31	61,61,61,61	0
84	MG	uL16	301	1/1	0.98	0.17	77,77,77,77	0
84	MG	25S	3469	1/1	0.98	0.19	57,57,57,57	0
84	MG	25S	3417	1/1	0.98	0.30	59,59,59,59	0
84	MG	25S	3651	1/1	0.98	0.33	74,74,74,74	0
84	MG	25S	3577	1/1	0.98	0.26	76,76,76,76	0
84	MG	uL14	201	1/1	0.98	0.32	55,55,55,55	0
84	MG	25S	3533	1/1	0.98	0.30	55,55,55,55	0
84	MG	25S	3579	1/1	0.98	0.32	61,61,61,61	0
84	MG	25S	3411	1/1	0.98	0.28	75,75,75,75	0
84	MG	25S	3402[B]	1/1	0.98	0.36	64,64,64,64	1
84	MG	25S	3605	1/1	0.98	0.20	88,88,88,88	0
84	MG	25S	3557	1/1	0.98	0.38	83,83,83,83	0
84	MG	25S	3659	1/1	0.98	0.24	74,74,74,74	0
84	MG	25S	3408	1/1	0.98	0.24	68,68,68,68	0
84	MG	25S	3537	1/1	0.98	0.32	58,58,58,58	0
84	MG	25S	3611	1/1	0.98	0.09	64,64,64,64	0
84	MG	25S	3474	1/1	0.98	0.22	109,109,109,109	0
84	MG	25S	3430	1/1	0.98	0.32	92,92,92,92	0
85	ZN	eS26	202	1/1	0.98	0.15	79,79,79,79	0
85	ZN	uS14	102	1/1	0.98	0.10	139,139,139,139	0
84	MG	25S	3405	1/1	0.98	0.28	59,59,59,59	0
84	MG	58S	201	1/1	0.98	0.32	77,77,77,77	0
84	MG	25S	3454	1/1	0.99	0.25	78,78,78,78	0
84	MG	25S	3650	1/1	0.99	0.24	69,69,69,69	0
84	MG	25S	3545	1/1	0.99	0.08	81,81,81,81	0
84	MG	18S	1878	1/1	0.99	0.20	76,76,76,76	0
84	MG	18S	1858	1/1	0.99	0.24	73,73,73,73	0
84	MG	18S	1823	1/1	0.99	0.10	128,128,128,128	0
84	MG	25S	3546	1/1	0.99	0.24	59,59,59,59	0
84	MG	25S	3422	1/1	0.99	0.14	81,81,81,81	0
84	MG	25S	3425	1/1	0.99	0.24	64,64,64,64	0
84	MG	25S	3593	1/1	0.99	0.22	95,95,95,95	0
84	MG	18S	1845	1/1	0.99	0.17	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	eL32	201	1/1	0.99	0.11	83,83,83,83	0
84	MG	25S	3481	1/1	0.99	0.19	87,87,87,87	0
84	MG	25S	3606	1/1	0.99	0.13	70,70,70,70	0
84	MG	18S	1868	1/1	0.99	0.17	70,70,70,70	0
84	MG	25S	3575	1/1	0.99	0.26	64,64,64,64	0
84	MG	25S	3608	1/1	0.99	0.17	71,71,71,71	0
84	MG	25S	3441	1/1	0.99	0.22	58,58,58,58	0
84	MG	25S	3661	1/1	0.99	0.28	53,53,53,53	0
84	MG	25S	3414	1/1	0.99	0.28	44,44,44,44	0
84	MG	25S	3568	1/1	0.99	0.14	69,69,69,69	0

6.5 Other polymers (i)

There are no such residues in this entry.