

Table S5
POLR3D (RPC4) peaks associated with offset BRF1, or BRF1 and BDP1, peaks, located elsewhere than in tRNA genes and pseudogenes

	gene	gene position	POLR3D (RPC4) peak number	POLR3 D (RPC4) peak score	% unique tag reads in POLR3D (RPC4) peak	BDP1 peak number	BDP1 peak score	% unique tag reads in BDP1 peak	BRF1 peak number	BRF1 peak score	% unique tag reads in BRF1 peak
1	<i>blat 5S_rRNA-related</i>	chr1:226812303-226812724	POLR3D (RPC4) 310	391.66	0.0	BDP1_205	124.61	0.0	BRF1_601	225.53	0.0
2	<i>blat 5S_rRNA-related</i>	chr1:226814544-226814965	POLR3D (RPC4) 314	394.52	0.0	BDP1_206	125.70	0.0	BRF1_602	226.60	0.0
3	<i>blat 5S_rRNA-related</i>	chr1:226816785-226817206	POLR3D (RPC4) 318	399.98	0.0	BDP1_207	126.75	0.0	BRF1_604	226.01	0.0
4	<i>blat 5S_rRNA-related</i>	chr1:226819026-226819447	POLR3D (RPC4) 322	407.23	0.0	BDP1_208	131.41	0.0	BRF1_606	226.78	0.0
5	<i>blat 5S_rRNA-related</i>	chr1:226821267-226821688	POLR3D (RPC4) 325	430.24	0.0	BDP1_209	132.41	0.0	BRF1_608	227.01	0.0
6	<i>blat 5S_rRNA-related</i>	chr1:226823482-226823903	POLR3D (RPC4) 330	388.75	0.0	BDP1_210	122.87	0.0	BRF1_610	226.73	0.0
7	<i>RN5S (5S_rRNA)</i>	chr1:226826034-226826155	POLR3D (RPC4) 333	388.75	0.0	BDP1_211	122.87	0.0	BRF1_613	226.73	0.0
8	<i>RN5S (5S_rRNA)</i>	chr1:226828276-226828397	POLR3D (RPC4) 336	394.52	0.0	BDP1_212	125.70	0.0	BRF1_615	226.60	0.0
9	<i>RN5S (5S_rRNA)</i>	chr1:226830515-226830636	POLR3D (RPC4) 339	218.70	2.6	BDP1_213	124.61	0.0	BRF1_616	225.53	0.0
10	<i>RN5S (5S_rRNA)</i>	chr1:226832757-226832878	POLR3D (RPC4) 342	399.98	0.0	BDP1_214	126.75	0.0	BRF1_617	226.01	0.0
11	<i>RN5S (5S_rRNA)</i>	chr1:226834998-226835119	POLR3D (RPC4) 346	407.23	0.0	BDP1_215	131.14	0.0	BRF1_619	226.78	0.0
12	<i>RN5S (5S_rRNA)</i>	chr1:226837238-226837359	POLR3D (RPC4) 349	407.23	0.0	BDP1_216	131.14	0.0	BRF1_621	226.78	0.0
13	<i>RN5S (5S_rRNA)</i>	chr1:226839463-226839584	POLR3D (RPC4) 353	566.70	0.0	BDP1_217	18.25	0.1	BRF1_624	216.42	0.0
14	<i>RN5S (5S_rRNA)</i>	chr1:226841704-226841825	POLR3D (RPC4) 357	421.68	1.7	BDP1_218	113.70	0.0	BRF1_626	218.59	0.0
15	<i>RN5S (5S_rRNA)</i>	chr1:226843935-226844056	POLR3D (RPC4) 362	343.35	0.0	BDP1_219	91.88	0.0	BRF1_629	109.15	0.0
16	<i>RN5S (5S_rRNA)</i>	chr1:226846176-226846297	POLR3D (RPC4) 365	346.18	0.0	BDP1_220	95.92	0.0	BRF1_631	109.07	0.0
17	<i>RN5S (5S_rRNA)</i>	chr1:226848407-226848528	POLR3D (RPC4) 372	61.79	0.3	BDP1_221	113.74	0.0	BRF1_636	222.62	0.0
18	<i>RN5S (5S_rRNA)</i>	chr3:183023186-183023586	POLR3D (RPC4) 664	6.31	0.0	No_BDP1	N/A	N/A	BRF1_1320	14.33	2.1
19	<i>5S_rRNA-related</i>	chr9:66197835-66198235	POLR3D (RPC4) 1710	43.00	100.0	No_BDP1	N/A	N/A	BRF1_3236	16.00	100.0
20	<i>5S_rRNA-related</i>	chr12:103043143-103043233	POLR3D (RPC4) 1925	154.19	0.0	BDP1_471	14.38	0.7	BRF1_4482	51.20	0.0
21	<i>5S_rRNA-related</i>	chr3:181362366-181362459	POLR3D (RPC4) 661	53.93	3.6	BDP1_1064	28.76	0.0	BRF1_1319	18.69	1.2
22	<i>5S_rRNA-related</i>	chr8:93248864-93248954	POLR3D (RPC4) 1656	66.38	1.8	BDP1_1641	38.41	0.0	BRF1_3003	43.20	0.0
23	<i>VTRNA1-1 (HVG-1)</i>	chr5:140071044-140071142	POLR3D (RPC4) 1060	317.87	99.3	BDP1_1298	36.65	89.1	BRF1_2076	51.67	94.3
24	<i>VTRNA1-2 (HVG-2)</i>	chr5:140078694-140078782	POLR3D (RPC4) 1062	330.44	92.3	BDP1_1299	31.59	75.8	BRF1_2077	43.09	97.6
25	<i>VTRNA1-3 (HVG-3)</i>	chr5:140085927-140086015	POLR3D (RPC4) 1063	427.39	98.6	BDP1_1300	21.75	66.6	BRF1_2078	49.24	92.1
26	<i>RN7SL1 (SRP_RNA)</i>	chr14:49123047-49123346	POLR3D (RPC4) 2036	436.13	0.0	BDP1_654	31.44	47.3	BRF1_4859	109.19	65.1
27	<i>RN7SL2 (SRP_RNA)</i>	chr14:49399018-49399317	POLR3D (RPC4) 2042	361.35	45.5	BDP1_655	639.92	89.8	BRF1_4864	313.29	89.1
28	<i>RN7SL3 (SRP_RNA)</i>	chr14:49390077-49390477	POLR3D (RPC4) 2040	71.84	11.2	No_BDP1	N/A	N/A	BRF1_4863	3.87	3.1
29	<i>MIR886 (hsa-mir-886)</i>	chr5:135444076-135444196	POLR3D (RPC4) 1058	342.73	89.9	BDP1_1295	54.00	82.6	BRF1_2064	152.00	100.0
30	<i>SNAR-A12 SNAR-A13</i>	chr19:53102626-53103026	POLR3D (RPC4) 2397	16.66	0.0	No_BDP1	N/A	N/A	BRF1_5908	13.75	0.0
31	<i>SNAR-A1 SNAR-A2</i>	chr19:53113372-53113772	POLR3D (RPC4) 2398	24.03	0.0	No_BDP1	N/A	N/A	BRF1_5909	23.29	1.4
32	<i>SNAR-A3-A11 SNAR-A14</i>	chr19:53118684-53119084	POLR3D (RPC4) 2399	188.53	9.6	No_BDP1	N/A	N/A	BRF1_5910	28.99	0.0
33	<i>SNAR-A1 SNAR-A2</i>	chr19:53129129-53129529	POLR3D (RPC4) 2400	23.01	0.0	No_BDP1	N/A	N/A	BRF1_5912	29.20	0.0

34	SNAR-A12 SNAR-A13	chr19:53139870-53140270	POLR3D (RPC4)	2401	16.10	0.0	No_BDP1	N/A	N/A	BRF1_5914	14.84	0.0
35	SNAR-A3-A11 SNAR-A14	chr19:55287426-55287826	POLR3D (RPC4)	2402	28.09	0.0	No_BDP1	N/A	N/A	BRF1_5919	21.86	0.0
36	SNAR-A3-A11 SNAR-A14	chr19:55292764-55293164	POLR3D (RPC4)	2403	18.95	0.4	No_BDP1	N/A	N/A	BRF1_5920	22.55	0.0
37	SNAR-A3-A11 SNAR-A14	chr19:55295828-55296228	POLR3D (RPC4)	2404	29.55	0.0	No_BDP1	N/A	N/A	BRF1_5922	21.92	0.0
38	SNAR-A3-A11 SNAR-A14	chr19:55298924-55299324	POLR3D (RPC4)	2405	17.99	0.0	No_BDP1	N/A	N/A	BRF1_5923	21.99	0.0
39	SNAR-A3-A11 SNAR-A14	chr19:55301984-55302384	POLR3D (RPC4)	2406	17.78	0.0	No_BDP1	N/A	N/A	BRF1_5924	22.39	0.0
40	SNAR-A3-A11 SNAR-A14	chr19:55307344-55307744	POLR3D (RPC4)	2407	15.36	0.0	No_BDP1	N/A	N/A	BRF1_5925	21.73	0.0
41	SNAR-A3-A11 SNAR-A14	chr19:55312685-55313085	POLR3D (RPC4)	2408	20.12	0.0	No_BDP1	N/A	N/A	BRF1_5926	25.45	0.0
42	SNAR-A3-A11 SNAR-A14	chr19:55318044-55318444	POLR3D (RPC4)	2409	17.78	0.0	No_BDP1	N/A	N/A	BRF1_5927	22.39	0.0
43	SNAR-A3-A11 SNAR-A14	chr19:55323364-55323764	POLR3D (RPC4)	2410	21.03	0.0	No_BDP1	N/A	N/A	BRF1_5928	22.86	0.0
44	TRNAAL1 (tRNA-derived)	chr11:67984165-67984257	POLR3D (RPC4)	1861	252.01	81.8	BDP1_370	55.00	68.5	BRF1_4221	196.00	100.0
45	RP3TR1	chr11:35504745-35504837	POLR3D (RPC4)	1834	147.83	50.3	BDP1_342	38.00	78.9	BRF1_4127	42.00	100.0
46	RP3TR2	chr1:146242225-146242317	POLR3D (RPC4)	164	126.00	100.0	BDP1_121	19.00	77.7	BRF1_400	25.00	100.0
47	DUX4 (LOC653545)	chr10:135339415-135339815	POLR3D (RPC4)	1816	42.55	0.0	No_BDP1	N/A	N/A	BRF1_4051	15.54	0.0
48	POLR3E	chr16:22217184-22217584	POLR3D (RPC4)	2159	205.00	100.0	No_BDP1	N/A	N/A	BRF1_5363	29.00	100.0
49	FLAM_C_SINE_Alu	chr3:197355900-197356300	POLR3D (RPC4)	676	65.00	100.0	No_BDP1	N/A	N/A	BRF1_1349	21.22	90.9
50	MIRb_SINE_MIR	chr16:9044163-9044563	POLR3D (RPC4)	2148	35.00	100.0	No_BDP1	N/A	N/A	BRF1_5334	10.00	100.0

Table S5. RN5S (5S) genes identified by BLAT searches are labeled yellow in column 1. RN5S (5S) genes belonging to the 5S cluster on chromosome 1 are indicated in green in column 2. Genes indicated in turquoise are potential new RNAP-III transcription units, devoid of runs of T residue inside the putative RNA coding region and containing a run of T residues near the end of the POLR3D (RPC4) peak. The ones labeled orange in the first column were shown to be transcribed *in vitro* and/or *in vivo* (see Figures 6 and S2).