

Supplementary Table 1. Raw data and calculations for one of the experiments shown in Fig. 5E

	Phase	Dividing cells						Cells at G1	
	Source	Buds		Mother cells		Whole cells		Whole cells	
	mtDNA	total	monomeric	total	monomeric	total	monomeric	total	monomeric
	Counted species on gel	Sall-produced monomers	untreated monomers	Sall- produced monomers	untreated monomers	Sall- produced monomers	untreated monomers	Sall- produced monomers	untreated monomers
1	¹⁴ C gloss: [G]	285.14	138.08	450.02	193.74	475.97	163.37	341.04	73.96
2	¹⁴ C above: [A]	-	78.87	-	207.71	-	138.53	-	67.66
3	¹⁴ C below: [B]	-	77.34	-	157.61	-	127.38	-	60.79
4	¹⁴ C background: [bkg]	24.89							
5	¹⁴ C net of monomeric mtDNA	-	59.98	-	11.08	-	30.42	-	9.74
6	¹⁴ C net of Sall-monomers	260.25	-	425.13	-	451.08	-	316.15	-
7	³² P gloss	7810.77	5516.19	16170.95	12011.49	16917.75	13647.54	27740.76	26490.56
8	³² P above	-	3359.58	-	8283.20	-	9137.41	-	16282.34
9	³² P below	-	3720.60	-	6847.10	-	8306.70	-	16125.23
10	³² P background	143.21							
11	³² P net of monomeric mtDNA	-	1976.10	-	4446.34	-	4925.49	-	10286.78
12	³² P net of Sall-monomers	7667.56	-	16027.74	-	16774.54	-	27597.55	-
13	¹⁴C density	0.034	0.030	0.027	0.002	0.027	0.006	0.011	0.001
14	Relative ¹⁴C density	1.26	1.13	0.99	0.09	1.00	0.23	0.43	0.04

Note:

- Counts of radioactivity are expressed in arbitrary unit obtained by a Fuji BAS2000 image analyzer.
- [G], a gloss count of ¹⁴C or ³²P appearing in a sample area; [A], the count appearing in the same amount of the are just above the sample area; [B], the count appearing in the same amount of the are just below the sample area; [bkg], the counts appearing in the sample area in a lane in which DNA was not loaded.
- Lines 5 and 11: net counts of monomeric mtDNA; [Net count of monomeric mtDNA] = [G] - ([A]+[B])/2
- Lines 6 and 12: net counts of total mtDNA; [Net count of Sall-produced monomer] = [G] - [bkg]
- Line 13: ¹⁴C density = [¹⁴C net count]/[³²P net count]
- Line 14: [Relative ¹⁴C density] = [¹⁴C density of the sample]/[¹⁴C density of total mtDNA of whole dividing cells]