

Supplementary Table S1 Soluble sugar and starch contents of isogenic embryonal mass (EM) and non-embryogenic callus (NEC) of three genotypes (SD4-8, TD15-1, TD17-1) of Douglas-fir during the proliferation phase of somatic embryogenesis.

	SD4-8 EM		SD4-8 NEC		TD15-1 EM		TD15-1 NEC		TD17-1 EM		TD17-1 NEC	
Carbohydrate ($\mu\text{g g}^{-1}$ d.w.)												
fructose	18.9	± 0.63*	3.87	± 0.14*	17.5	± 3.27	4.53	± 0.46	15.0	± 1.75	23.9	± 7.92
galactose	2.22	± 0.17	0	±	3.31	± 0.46	0		2.50	± 0.30	0	
glucose	209.9	± 12.5*	13.6	± 0.70*	203.3	± 25.3*	78.6	± 10.0*	211.9	± 13.1	180.1	± 15.1
maltose	0	±	3.57	± 0.12	6.09	± 0.38	15.5	± 13.8	0		7.74	± 1.23
melibiose	4.06	± 0.29	0	±	2.83	± 0.31	0		3.49	± 0.43	0	
myo-inositol	3.38	± 0.23	3.53	± 0.13	4.06	± 0.27	4.56	± 0.52	2.46	± 0.23	4.01	± 0.26
raffinose	16.9	± 1.49*	1.91	± 0.13*	6.88	± 0.88	6.62	± 3.64	10.9	± 2.00	7.48	± 0.86
sucrose	59.4	± 2.24*	17.3	± 2.31*	18.4	± 4.01	21.1	± 4.54	45.8	± 6.23	42.1	± 3.25
starch (mg g^{-1} d.w.)	10.2*	± 0.21*	19.3	± 2.44*	2.56	± 0.37*	8.69	± 2.42*	14.9	± 1.76*	26.8	± 0.66*

Values are means of four measurements \pm CI 5% error level. Asterisks indicate significant differences between EM and NEC lines obtained from multiple comparison of means ($P < 0.05$).