

Supplementary Table S5. Functional classification according to gene ontology (GO) of proteins that were significantly differentially expressed between isogenic embryonal mass (EM) and non-embryogenic callus (NEC) of all three Douglas-fir genotypes. Total number of proteins annotated to each GO term indicated in the first column and corresponding percentage in the second column.

	EM		NEC	
	No	%	No	%
Biological regulation (GO:0065007)	7	2.0	5	2.5
Cellular component organization or biogenesis (GO:0071840)	24	6.9	8	4.0
Cellular process (GO:0009987)	83	24.0	33	16.7
<i>Cellular component movement (GO:0006928)</i>	4	1.2	2	1.0
<i>Cytokinesis (GO:0000910)</i>	2	0.6	0	0.0
<i>Cell cycle (GO:0007049)</i>	7	2.0	3	1.5
<i>Chromosome segregation (GO:0007059)</i>	4	1.2	2	1.0
<i>Cell communication (GO:0007154)</i>	4	1.2	3	1.5
Developmental process (GO:0032502)	3	0.9	3	1.5
Localization (GO:0051179)	34	9.4	5	2.5
<i>Protein localization (GO:0008104)</i>	4	1.2	0	0.0
<i>Transport (GO:0006810)</i>	34	9.8	5	2.5
Metabolic process (GO:0008152)	106	30.6	72	36.4
<i>Phosphate-containing compound metabolic process (GO:0006796)</i>	24	6.9	2	1.0
<i>Biosynthetic process (GO:0009058)</i>	21	6.1	13	6.6
<i>Vitamin metabolic process (GO:0006766)</i>	0	0.0	3	1.5
<i>Primary metabolic process (GO:0044238)</i>	102	29.5	59	29.8
<i>Catabolic process (GO:0009056)</i>	26	7.5	11	5.6
<i>Sulfur compound metabolic process (GO:0006790)</i>	6	1.7	8	4.0
<i>Coenzyme metabolic process (GO:0006732)</i>	1	0.3	6	3.0
<i>Nitrogen compound metabolic process (GO:0006807)</i>	36	10.4	14	7.1
<i>Generation of precursor metabolites and energy (GO:0006091)</i>	5	1.4	12	6.1
<i>Secondary metabolic process (GO:0019748)</i>	1	0.3	3	1.5
Response to stimulus (GO:0050896)	8	2.3	9	4.5
<i>Response to stress (GO:0006950)</i>	6	1.7	8	4.0
<i>response to abiotic stimulus (GO:0009628)</i>	1	0.3	0	0.0
<i>Response to endogenous stimulus (GO:0009719)</i>	1	0.3	0	0.0
<i>Immune response (GO:0006955)</i>	1	0.3	0	0.0
Immune system process (GO:0002376)	1	0.3	0	0.0
Unclassified	80	23.1	63	31.8