

Supplementary Table 1. Genes analyzed in maritime pine embryogenic masses and needles.

Gene code	Protein	Sequence	Primers		Tm	Product size
			Forward	Reverse		
APX	<i>Ascorbate peroxidase</i>	AY485994 ^x	GGTCTGGACATCGCAGTTAG	CCACACCAGCCAACCTGATAA	62	91
CCO	<i>Caffeoyl CoA O-methyltransferase</i>	AM502291.1 ^x	GCCGATGAGGGTCAATTTCT	AATGCAAGGGCTGTGCT	62	110
HSP	<i>Heat shock protein HSP 70</i>	CT577590 ^x	CACCAGCAGTGGGAATATCA	AGGGCATCTGCAATCCTATC	62	90
SOD	<i>Cu-Zn-superoxide dismutase precursor</i>	AF434186 ^x	CAATGGCTGCATGTCAACAG	CCATCAGAACCCGCAACTAT	62	117
WKY	Putative WRKY factor	CT582155 ^x	CCCATTATCCTCCACTAACTCC	GCTGAGAGATCGAACCAGTATAG	62	88
AGO	<i>Argonaute 9 (AGO9)</i>	5048 ^y	TGCAGATTCTTGTCATGCTTT	CTGGCTCGCAGCTAAATGC		
BSH	<i>Bushy Growth (BSH)</i>	7514 ^y	GGATTAGCAATGCTCAAAACAC	GGCGAATGGGAATCAAGTTC		
CLF	<i>Curly Leaf (CLF)</i>	3877 ^y	TGAAAAATACTGTGGGTGTTTCGA	CAGCAAAGCACGGGCATT		[40]
DCL	<i>Dicer like protein 1 (DCL1)</i>	28419 ^y	TGAACACCACCAAAGGAATTG	TCTCGTCTTTGCTTGACTTATC		
HDA	<i>Histone deacetylase 9 (HDA9)</i>	1009 ^y	TCTATCGACCACACAAGGCATATC	CAAGTGCTGTGTATCAGGCGTTA		
DNM	<i>DNA (C-5)-methyltransferase 1-like (DNMT1)</i>	Pp29536 ^z	GGCTGGGTCACACTAATTCAAAG	TGCTTCAGATCCACACTCCTG		[41]
H12	<i>Histone 1.2 (H1.2)</i>	Pp46359 ^z	CCCGCTTTTGATTTTGTCTGC	CCTCGGCTTCTTTTCCTTTGC		
HIS	<i>Histone 3 (HISTO 3)</i>	BX682612 ^x	GCTGAGGCTTACCTTGTG	CCAGTTGTATATCCTTAGGCATAA		[78]
TUB	<i>α-tubulin (α-TUB)</i>	sp_80862 ^x	ATCTGGAGCCGACTGTCA	TGATAAGCTGTTCAGGATGGAA		

^x Genbank; ^y Sustainpine; ^z Pp transcript