

Table s1.2. Selected NB-LRR family genes in Norway spruce putatively regulated by specific miRNAs and analysed by real time qRT-PCR

Target LRR gene	Nucleotide source sequence	miRNA ID	Primers (5'→3'), F/ R	Product length, bp	miRNA primer sequence (F)
PaLRR25	ES261905	pab-miR950-3p	TCTCCGTCAGGCGGGTGT/TTGAGGAAGGCAGTTTCAAGCAGAG	80	TCTGGGCCCCGGTGGTTTATGA
PaLRR26	DR563813	pab-miR951	TGCAGAGCGTATTGGATCTTGCTTCT/ GGAGTGGGATGTGGACGAGGATG	88	TGTTCTTGACGTCTGGACCACG
PaLRR27	EX326419	pab-MIR3693	GGAGCTGCTCGTAGGTGAGGGATG/ GAAGTTTGCTCCATTTGAGCGCTTGT	97	AGAGGGTGCTCATGAACTGCTC
PaLRR28	EX427311	pab-MIR3697	CCCTCGCATCCTCCTCATCCA/ TGGCTGGCGAGACCTTTCTTTACATC	106	TAGCCCCTGACTTCAACATGAG
PaLRR29	DR499063	pab-MIR3705	CCGTAAACTTGCCGCCATCCA/ CAGCCACGATATGACCCCGACA	101	GTAAGTGTTATGATCTGGAC

Table s2. Selected miRNAs putatively targeting LRR family genes in Norway spruce (Their identification and miRNA precursors are shown in Yakovlev et al., 2010)

miRNA ID	Sequence	Length, nt	miRNA containing EST	Target	Target gene function	Score/E-value
pab-miR950-3p	TCTGGGCCCGGTGGTTTATGA	22	<u>ES261905</u>	<u>DR543641</u>	<u>gi 321530320 ADW94527.1 putative TIR-NBS-LRR protein [Pinus monticola]</u>	58.5 bits (140)/3e-07
pab-miR951	TGTTCTTGACGTCTGGACCACG	22	<u>DR563813</u>	<u>EX417324</u> (4 mismatches)	<u>gb AAM28917.1  putative TIR/NBS/LRR disease resistance protein [Pinus taeda]</u>	157(396)/6e-37
pab-MIR3693	AGAGGGTGCTCATGAACTGCTC	22	<u>EX326419</u>	<u>DR492284</u> (2 mismatches)	<u>gb AAY78890.1  CC-NBS-LRR resistance-like protein [Pinus lambertiana]</u>	311(796)/5e-83
pab-MIR3697	TAGCCCCTGACTTCAACATGAG	22	<u>EX427311</u>	<u>EX417859</u> (3 mismatches)	<u>gb AAM28917.1  putative TIR/NBS/LRR disease resistance protein [Pinus taeda]</u>	147(372)/2e-42
pab-MIR3705	GTAAGTGGTTATGATCTGGAC	21	<u>DR499063</u>	<u>DR491334</u> (1 mismatch)	<u>gb AAM28917.1  putative TIR/NBS/LRR disease resistance protein [Pinus taeda]</u>	212(539)/3e-53