

Supplement 1

Table s1.1 Selected Nb-LRR family genes in Norway spruce analysed by real time qRT-PCR

Cluster	Group	Number	Protein ID	Nucleotide source sequence	Gene name	Primers (5'→ 3'), F/ R	Product length, bp	
1	1	1	ABK24805	gi_116788244	PaLRR2	TGGCAAGCCGGAAGATGAGG/ CCAGCAGGGTTTCCAGCAACG	120	
2	2	3	ABF73316	gi_104642234	PaLRR11	GCACAAGCGTCCTGCCATT/ ATCCTTGCCCGTTGCCTTGG	101	
		4	ABR18304	gi_148910456	PaLRR12	AAAGTGGCCTTGCTTGCCTGA/ TGCGACAAAGTATTTTCATCATGCACCTT	113	
3	3	19	ACN41041	gi_224286674	PaLRR13	TGTGGGCAATCCAAGAGGAA/ CCACAGGGATGTAATGGCAAACC	97	
		4	ABR17329	gi_148908431	PaLRR17	CATTGGCTTGACCCGATCCTCTC/ GCTTCAAATGCTTACTCCATGGTTCACA	95	
		5	26	ACN40981	gi_224286550	PaLRR9	GGAGTGCTCAGGATCGAAGAAGATGC/ GCTTTGATGGACAACCACGCTCCTA	111
3	6	27	ABR16233	gi_148906150	PaLRR10	GCCTGATGACCTGGGCAAGTTAAGG/ TCGCAAATGGAAGCTGGAAGCA	90	
		30	ABK24822	gi_116788283	PaLRR3	CACATTGATCTTCAGGGATGCCACA/ CGGCAGCCATTCCAAATCGT	114	
		32	ABR18026	gi_148909879	PaLRR18	GCACAACCGTTTCTACCTGTGAGAGAG/ CTGGCTGCTCCTCAAATCTTCCA	106	
3	7	36	ABR18473	gi_148910813	PaLRR6	TGGTGGAGGATCTCCCGCAAG/ TGCAATTGTGAAACTCGCAAATACAA	115	
		37	ABR18096	gi_148910025	PaLRR7	TGCAATGAGTTGATGAAATTGGACTTG/ TGTACCAAATGGTCTGTGATGCTCTC	111	
4	8	39	ACN39861	gi_224284250	PaLRR8	TGCAAGAACTCAATTTCCAAGTTGC/ TTTCGCAAGAGGATAAATCCAATATTCTCA	102	
		9	40	ABR16849	gi_148907432	PaLRR20	TGGTGCAGCTGACAGGACTTCG/ TTCCGACACCCACCGGCATT	118
		10	47	ABR17027	gi_148907802	PaLRR21	TCCTCCGTTGCCAATGCTCA/ GGGCAGACACCTTCACCAAAGGA	104
		11	54	ADE76430	gi_294461742	PaLRR22	TGCCAAAGTCCCTCGGCAAC/ CCCACAACCTTCCAGCGATAACA	114

	12	56	ABR17471	gi_148908727	PaLRR23	CGCCCTACGGTTGGAGGCTGA/ CGCAGTGCATTCTCCCGCTTG	93
5	13	57	ABK24857	gi_116788373	PaLRR19	AAACTCTGATCCCGTGAAGGCAAAC/ CAACATTTGGCCGGGTATGGAA	100
		58	ABK24560	gi_116787569	PaLRR24	TCGACTCCGGGAATGCCCTCT/ AGCGTACTTCCATATCCTCGGCCTTG	90
	14	60	ABR18087	gi_148910004	PaLRR1	TTCCAAGGCAGTGAAGCGTTAGCAG/ CCCGAATGGAACCAGAGCCAAG	90
		62	ABK25485	gi_116790053	PaLRR16	TGGGCTTTCCGTGCTCTCCTT/ AGATAGCCAGGTCTCCAGGGTTGA	120
		63	ADE76117	gi_294461100	PaLRR14	TGCTCTGCTGGATTGCGAGAGTT/ ACTGCACCCACGGGCTTCCA	106
		65	ABR17804	gi_148909411	PaLRR15	CGACAGTAAGTTGTGGGTGTTCTCAAGG/ CAAACCTCGGAATGTTGAATGGCTGGT	103
6	15	72	ABR17008	gi_148907764	PaLRR4	GGGATCGGCGCAAGCAACA/ GCTCTTCAGATTCACACATCCGTCCA	100
		73	ABR18194	gi_148910225	PaLRR5	TGCCTGGTGGAGGTGGACAGG/ GCGCCAAAGACGACACGGATT	108
