

Additional file 15

File format: PDF

Title: Supplementary Table S9

Description:

Table S9. List of primers that were used for qRT-PCR analyses.

Experiments	Name	Gene ID	Protein ID	Forward and reverse primers (5' - 3')	Amplicon size (bp)	Tm (°C)
Confirmation of microarray data	Dehydration stress-induced protein	estExt_fgenes4_pg.C_LG_VII0502 (POPTR_0007s05650.1)	819822	F-CCTCCTCCTCCTTTCCTTCTCCTCCATAG R-CTCAAGATCTGGGACCTCCACGCCATAACC	163	70 75
	Thaumatococcus-like protein	grail3.0020019002 (POPTR_0018s10480.1)	669475	F-CGTTTTTCTTACTTATCGTTGTTTCCTGTC R-GGCCCCATCGAAAATGCAGTTGGTCCGTC	234	68 79
	Cationic peroxidase 1	estExt_fgenes4_pg.C_LG_XVI1240 (POPTR_0016s14030.1)	825400	F-GCATCAGTGCTTTTGGACGGTGGAG R-CATCGCTAACACTTCCTGCTGTGGC	238	71 70
	P.trichocarpa X P.deltoides wound-responsive	estExt_fgenes4_pg.C_LG_X1353 (POPTR_0010s16050.1)	822230	F-CGAAGAAATCTGCAATCGTATTACCTGG R-GTTTCAGTTGCTGAACAGGATAGTTTTTAC	188	67 62
	Blight-associated protein p12	estExt_fgenes4_pg.C_LG_VI1270 (POPTR_0006s19310.1)	819386	F-CTTATCTCCGTTGCGCATGCTGCACAAG R-GTTTGCATGGTTTTGGAGCTTCATTTG	205	75 69
	Alcohol dehydrogenase 2	estExt_fgenes4_pg.C_LG_II0662 (POPTR_0002s07290.1)	816232	F-CACCGTCTGCCATATTGGGTCTGTTG R-CTCGAAGCCCCTGATAACCTTGCTCCC	207	71 73
	Phenylcoumaran benzylic ether reductase	estExt_fgenes4_pm.C_LG_II0164 (POPTR_0002s03580.1)	830063	F-CTTCTTTGCTGCATATTATCTCCCCACATTG R-ATAGATCAATAAGCTCATTGAATGAGTAGG	230	70 61
	Ubiquitin	eugene3.00111099 (POPTR_0011s13770.1)	569085	F-CGATAATGTGAAGGCCAAAATTACAG R-GGTCAGGGGGTATTCTTCCTTGTC	278	65 68
Water stress	Phenylcoumaran benzylic ether reductase	estExt_fgenes4_pm.C_LG_II0164 (POPTR_0002s03580.1)	830063	F-CATCTCCTGCTCTCCAGTTATTAATG R-ACCTCCTTGACTTGACAAACAC	96	58 58
	Isoflavone reductase related protein	gw1.IX.1737.1 (POPTR_0009s12090.1)	201272	F-CCATCTCATTCAACGATCTTGTG R-CTCCTCGGGAATGTAAATCTTTTC	80	58 58
	Alcohol dehydrogenase 2	estExt_fgenes4_pg.C_LG_II0662 (POPTR_0002s07290.1)	816232	F-TGCAAGATCCACCTGCTACATG R-AAACCAGAACCAAAAGCCATTG	79	60 59
	Alcohol dehydrogenase	fgenes4_pg.C_scaffold_70000003 (POPTR_0005s06140.1)	782655	F-TGGCGTGCCGAACAAAG R-TCTGAGCGCGGCTTATAGTTTC	108	59 60
	(-)-isopiperitenol dehydrogenase	grail3.0005000301 (POPTR_0015s07660.1)	666348	F-TGAGACCAATATGAGCTTGAAAGG R-GCACAGCATCTGCCACATG	62	58 58
	P.trichocarpa X P.deltoides wound-responsive	estExt_fgenes4_pg.C_LG_X1353 (POPTR_0010s16050.1)	822230	F-AGTCAGGATGCCTTCAATGAGTATC R-CACAGGCAGGCAAAAACCTTG	76	59 58
	Populus x generosa pop3 peptide	estExt_Genewise1_v1.C_LG_X0701 (POPTR_0010s16030.1)	723969	F-TTCGGCCGGGCTATTTTC R-TTCACATAGCACAGCACAAACAAG	110	58 59
	Unknown protein	estExt_fgenes4_pg.C_LG_I0347 (POPTR_0001s05560.1)	814847	F-GATGGAAGTGTGCTCTTGAATC R-TCATGCTCTGGCCTGACTTG	85	58 59
	Cysteine-rich repeat secretory protein 38	estExt_Genewise1_v1.C_LG_VII1106 (POPTR_1698s00200.1)	718495	F-GCCCTATGAATCCAACCTAAAC R-TGAACCCAGACCAATCCTGTAC	80	59 59

Table S9. continued

	Dehydration stress-induced protein	estExt_fgenes4_pg.C_LG_VII0502 (POPTR_0007s05650.1)	819822	F-GGCCATGGTTGGTACGTAACTAC R-GCTCAATCTCGAACTTCTTTTGTG	85	60 58
	Thaumatococcus-like protein	grail3.0020019002 (POPTR_0018s10480.1)	669475	F-TCGTTGTTTCCCTGCTTCCT R-GAAAGTAGCTGCGTTGCTTAAGG	63	58 58
	Pathogenesis-related protein 8	estExt_fgenes4_pm.C_LG_XI0062 (POPTR_0012s01160.1)	233978	F-CTCGTGTCATCATCTCATGTATCCT R-TCAATTCAAGTACAAGTACACAGTCACA	83	58 58
	Acidic class III chitinase	estExt_Genewise1_v1.C_1970084 (POPTR_0015s05990.1)	746640	F-GAGCAAGCAGTATGACAATGGGTAT R-GGAATCAGGAGCACACAGCAT	98	59 59
	Class IV chitinase	gw1.142.209.1 (POPTR_0013s12870.1)	270686	F-TTACTACGGCCGAGGACCAA R-TCTCCGGCAGGTCCATAATT	60	59 58
	NtPrp27	eugene3.00012396 (POPTR_0001s30680.1)	549955	F-CAAGGCCAAGTATGGAAAATAGAAG R-TGATGCGAGCTGCTAAAAGTGT	83	58 59
	Cationic peroxidase 1	estExt_fgenes4_pg.C_LG_XVI1240 (POPTR_0016s14030.1)	825400	F-GCAGGAAGGCCAATTGAATACT R-CACACACATAAACAAGAGCTGCAA	67	58 59
Pathogen challenge assay	Cyclin-dependent kinase 2 (CDC2)	grail3.0056004702 (POPTR_0004s14080.1)	648419	F-CTTCTAAGGATTGGCAACTGTAGTTCCA R-AGCACTCCTGGCAGTAATTCTTTTAGT	110	63.3 63.3
	Glyceraldehyde-3-phosphate dehydrogenase (Gapdh)	estExt_fgenes4_pg.C_LG_X0484 (POPTR_0010s06560.1)	821843	F-AGGCTTTAGATGATGTGCGAAGTTTGGGA R-TGGTAGAGGAGAGAGAGCGGGA	172	66.5 66.4
	Ubiquitin/ribosomal protein 27a (Ubi)	estExt_Genewise1_v1.C_LG_II1812 (POPTR_0001s06260.1)	710530	F-ACCAAGCCCAAGAAGATCAAGCA R-CCAGCACCGCACTCAGCA	131	65.1 65
	Eukaryotic initiation factor 4A-2 (eIF4)	estExt_Genewise1_v1.C_LG_VI0160 (POPTR_0006s24220.1)	716781	F-TGGGGCCTCTATTTAGCATGGAT R-CTGCACCCGAAATGGGATTGACC	88	64 65.3
	Actin (Act1)	estExt_fgenes4_kg.C_LG_I0082 (POPTR_0001s31700.1)	813612	F-CCCATTTAGCAGCGTATTGT R-TACGACCACTGGCATAACAGG	131	60.4 63.1
	Blight-associated protein p12	estExt_fgenes4_pg.C_LG_VI1270 (POPTR_0006s19310.1)	819386	F-GCATTGTATCATGCCTTATCTCCGTTGC R-ATGCTGCTCCACCATTCCACAGA	156	66 66
	Acidic class III chitinase	estExt_Genewise1_v1.C_1970084 (POPTR_0015s05990.1)	746640	F-CTCTGGAGCAAGCAGTATGACAATGG R-ACAGCATGGGGAAGAGCAGG	89	66 66
	Thaumatococcus-like protein	grail3.0020019002 (POPTR_0018s10480.1)	669475	F-TTCAGTCCAGTATCAGGCAACTGC R-GCACCTCTGCTTGAACCACTAGAGTAAT	189	66 66
	Cationic peroxidase 1	estExt_fgenes4_pg.C_LG_XVI1240 (POPTR_0016s14030.1)	825400	F-GGACGGTGGAGAAAAGACAGCAC R-GGTCCCAGCAGCAACAGATAAGATG	142	66 66
	Cysteine-rich repeat secretory protein 38	estExt_Genewise1_v1.C_LG_VII1106 (POPTR_1698s00200.1)	718495	F-AGATGGAGCTAGGAGAATCAACCAAG R-CCACTGACAACTCTGCCACCTTC	151	65 66