

**Table S3.** Primer sequences of the 40 candidate genes used for verification by qRT-PCR. The locus identifier for *A. thaliana* is given by the TAIR id and for *A. lyrata* by the Phytozome gene id.

ae name	locus At	locus Al	forward primer	reverse primer
245245_at	AT1G44318	314128	AACTGGGCACGGTGGGATCG	CGCGCCTACACGACCATCCA
245336_at	AT4G16515	493225	GCTGCCGCTCGTCGGTTAGG	CGACCCACCCAACACTCGC
245369_at	AT4G15975	329916	TAGCCGCTTCAACCGCACCG	GGTTGCGGCGGAGAACGTGA
245397_at	AT4G14560	946923	ACCGAGCTTCGTTTGGGATTACCTG	GGAGGCCATCCCACGATTTGTGTT
245696_at	AT5G04190	939816	GCTCGTCCATGGGCTCCACC	CCGGCTCGGCGGTCATAACG
246270_at	AT4G36500	490986	GGTGCTGGTGGTGTCCGACC	CGGGTGGCTAAATTTGCTGTGG
246993_at	AT5G67450	496850	ACGGAAGTAGCAGCAACAGCGT	GGCCACCAATAGCACTTTCTCCGA
247215_at	AT5G64905	951330	GGCGATTTTTTCGTCATCTCACAGCG	GTCTTGGTCTTCCCTCGCGCTT
247524_at	AT5G61440	496303	ACGATGCAGCCTCGGGCCA	TTCCCAACCGATGCCAAAGCC
248539_at	AT5G50130	495070	GCCAGGGCGCAGCTACAACA	TGGGTGCATAGCTTGAAAAGCCACA
248676_at	AT5G48850	494948	ACCCACCAAGACCGCTCGCT	TGTATACCGCCTCTGCCGACAAGT
248858_at	AT5G46630	948276	CGAAGATGCCGGTGGCTGCT	CGACGTCATCACGGTAGGTGCG
250937_at	AT5G03230	939701	CGCACGAGTATTTAGCGCGGC	TTCGCCGTTCCACCGATTCTTTC
251705_at	AT3G56400	486080	GGGTGCAAGGCAACAAAGCAAGT	TGCGTTGGTGTACACGTGTGGT
251910_at	AT3G53810	485775	GGCCGGGACGGTTTTAGCGG	ATCAAACATCACCTCCCACCGGAGA
252205_at	AT3G50350	485386	CCGGGGGTAGTGCCTCGTCT	GCTCTTCCACGGCGGCGAT
252626_at	AT3G44940	484892	CGTCTCTGCTCAATGGCC	AGTGGTGGGATGGTGACAGGAGG
253287_at	AT4G34270	491240	GTGAAAAGTGTGGAGAGAAGCAA	TCAACTGGATAACCTTTTCGCA
253400_at	AT4G32860	491410	AGCGCCAACGCCAAGCGTAT	ACGTCGGGAAACACTGCCGC
253908_at	AT4G27260	492072	TGGATGGAAAACACGCCGATCCC	AAGCGGGCTATGGACTTGTCACT
253959_at	AT4G26410	945436	ACTGCTGTGATGCGACGGTG	GAGCAGAGCCGATGGCCGAA
254175_at	AT4G24050	492457	ACCGTCCCTCAAGCAGCA	TTGGATCCGAGTCCAGACGGCG
254761_at	AT4G13195	333009	ACTCACACTAGACGGAGTCGCAGT	TGAGCTTCAGCTCCGAACCTCTCTCC
255788_at	AT2G33310	482270	ACCAAGCTACGAAATCTGCGAGGG	ACCCAAGTGGCACTTTCCATTAC
256131_at	AT1G13600	920239	GGGAATCTGCTCGTAGGTCA	TCAGATACCGGTTTCAGCTT
257153_at	AT3G27220	936451	GGGAGGCTTCATGTGATGGGTGG	GCCCTGTGTGGTCCACCTCG
259407_at	AT1G13320	920212	AGACAAGGTTCACTCAATCCGTG	CATTCAGGACCAAACTCTTCAGC
260904_at	AT1G02450	470205	TAGCGGCGGAGAAAAGATCCGGT	GCGGCTTCAAATCCGTACGACACT
261766_at	AT1G15580	471758	GGCCTCTCCGGAAGTGAGAGTAA	AACCGGTGGCCAACCCACAA
261892_at	AT1G80840	477161	AGGACCAGTCCGTGTTGGTTGC	GCTGCTGCGGGTGTGAAGC
262085_at	AT1G56060	474673	CGTATGTGACAGCTCCGCCACC	AGCAGCAGCACATTGCAGCCA
263970_at	AT2G42850	346095	AGGAGGGCGCTGAGAAGCCA	TGGCCATGGCGTAAGAGGTTGTG
264867_at	AT1G24150	313260	TCAGAGGGGAAGCGATGTGTGCT	TCGAACTGCTGCTGCTACGGC
265256_at	AT2G28390	481666	AACTCTATGCAGCATTTGATCCACT	TGATTGCATATCTTTATCGCCATC
265452_at	AT2G46510	483808	GGCGGTCCGGGGAGGTGTTA	TCGTTCTGATTCCCGCAGATTTCCG
265806_at	AT2G18010	931672	CCGTTTACGTGGGACCGAACCG	CCTCGGCTAGTCGGAGCAACG
265856_at	AT2G42430	935111	GCTGTGCTCACCATCGCCTACG	GGCCGGCGATCTGTGCCTTC
266649_at	AT2G25810	932757	CGCCATGGCCACCGACAGTT	GTGACCGCGGGGTTGAGGTG
266820_at	AT2G44940	483623	CGGCGAGCTTCTCGTCCAG	GCTCGACTCGGCTCGGCTTC
266974_at	AT2G39370	482956	CATGCGCTTCCGCTGC	ACGATCTCCTATGGCTCCCGAAA

ae: array element, At: *Arabidopsis thaliana*, Al: *Arabidopsis lyrata*