

Supplementary Table 1. Primers used for cloning, PCR and RT-qPCR assay of different genes

Primer #	Primer sequence	Purpose
1302	GAATTC ATGGATTCTTGCTGTGTGGC	Cloning of MeAPL3 coding sequence (EcoRI and BamHI restriction site introduced for subcloning)
1303	TCT GGATCC ATTTATATTACTGTGCCA	
1262	GCTAGC GCTCGCAATTCAAGTTTGGG	Cloning of MeAPL1-VIGS target (NheI and SbfI restriction sites introduced for subcloning)
1263	CCTGCAGGG TAGTCAAGAAGCGTCTGGT	
1264	GCTAGC GTGGATGCAATTGACTTTGG	Cloning of MeAPL2-VIGS target (NheI and SbfI restriction sites introduced for subcloning)
1265	CCTGCAGGG TACCAGCTCCTCCTCCAGTATAATTG	
1044	GCTAGC CCTAGCAGCAACTCAAACGC	Cloning of MeAPL3-VIGS target (NheI and SbfI restriction sites introduced for subcloning)
1045	CCTGCAGG TAGGGTATCTCCACCGTAGAAGCTT	
1266	GCTAGC CTTTTCCCTCTCACCAAGCG	Cloning of MeAPL4-VIGS target (NheI and SbfI restriction sites introduced for subcloning)
1267	CCTGCAGGG AGGCTCGACTGTCATCCATTGGCAAAC	
1489	GATCGTTTTGACATCTTGGTACCATTG	Cloning of MeAPL5 (both cDNA and genomic DNA)
1490	CCTCAGCTTCATCAATGGCATAATC	
1540	GCTAGC TCGTTTGGGTTTTTGAGGATGC	Cloning of MeAPL5-VIGS target (NheI and SbfI restriction sites introduced for subcloning)
1541	CCTGCAGG CATTGAATAAATATGCCTGGACATTGTG	
1309	GGGAAGATCAATTTCCCTAGGAAAA	RT-qPCR for MeAPL1-VIGS target
1310	ATAGAGGCAACAGTCTTCGGGTCT	
1311	CTTTACAAGTAGTTTAGCTGGCGAGAA	RT-qPCR for MeAPL2-VIGS target
1312	TAAGCCTGTATGCACCTCCAATTG	
1300	TTAATCGGCACCTTGCACGC	RT-qPCR for MeAPL3-VIGS target
1301	CAGCATCTGCAGTTCCTTGGA	
1313	CTCTTGCTACTAATATAGCTGGCGAATC	RT-qPCR for MeAPL4-VIGS target
1314	ATGCACCTCCAATTGGCACA	
1542	AGGACCACAATGTCCAGGCATATTT	RT-qPCR for MeAPL5-VIGS target
1543	AAACTTTGGTGACTGTTCTGTGAGA	
1475	CACATGAGCGAAACCCTATAGGAAC	RT-qPCR for MeAPL3 transgene (p8388)
1476	CACAATTATAGCAGAGAAGGCGACAA	
1326	CACAAACAAAGATGGTGTGCAAGA	RT-qPCR for MeAPL3 (endogenous gene)
1327	CTTGTACAGCCAACCAAGTCCTTGA	
1426	TCTCGACAGACGTCGCGGTGAGTT	PCR primer for transgenic line screen (p8388)
1427	GGATAAGTGCCGATTGTAGATGCG	