

Additional file 9: Supplementary Table S3. Primer sequences and PCR conditions used in RACE reactions.

GSP1, gene specific primer for 3'-RACE; NGSP1, nested gene specific primer for 3'-RACE.

GSP2, gene specific primer for 5'-RACE; NGSP2, nested gene specific primer for 3'-RACE.

Name of the gene	Primers Sequences	PCR conditions
<i>AeACTH</i>	GSP1: 5'-TCAAGAATGGGATCACGGCTAGGACA-3' NGSP1: 5'-CCTGGGGAAATAGTTCCGGTTGAGCTT-3' GSP2: 5'-GGGTATTCCAGCACCTAATGCAGCTTG-3' NGSP2: 5'-GCCTCCGGCAACTACGACATTATTGCT-3'	Primary PCR 5 cycles: 94°C, 30 sec; 72 °C, 3 min; followed by 5 cycles: 94°C, 30 sec; 70°C, 30 sec; 72 °C, 3 min; and 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3min; Final extension at 72°C, 7 min Nested PCR 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3 min; Final extension at 72°C, 7 min
<i>AeHMGS</i>	GSP1: 5'-GTAGGAAGTGAGACTGTTATTGACAA-3' NGSP1: 5'-TGTCAATTGGGTGAGAGTAAC-3' GSP2: 5'-CACCACCTTTTGATCTTCCTTACAAT-3' NGSP2: 5'-CCTACATATCAAATGAAGCAACTCA-3'	Primary PCR 5 cycles: 94°C, 30 sec; 72 °C, 3 min; followed by 5 cycles: 94°C, 30 sec; 70°C, 30 sec; 72 °C, 3 min; and 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3min; Final extension at 72°C, 7 min Nested PCR 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3 min; Final extension at 72°C, 7 min
<i>AeHMGR</i>	GSP1: 5'- TGGAGGACCCTCTCAATTTGAGACA -3' NGSP1: 5'- ACTTCAGAGCATTAAAGTGCGCCATC-3' GSP2: 5'- GCACACGACTGATTTTCCACGTCCTT-3' NGSP2: 5'-AGTTGCCAGAAATGCCAATGACATC-3'	Primary PCR 5 cycles: 94°C, 30 sec; 72 °C, 3 min; followed by 5 cycles: 94°C, 30 sec; 70°C, 30 sec; 72 °C, 3 min; and 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3min; Final extension at 72°C, 7 min Nested PCR 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3 min; Final extension at 72°C, 7 min
<i>AePMVK</i>	GSP1: 5'-ATCTTGTTTTGGAGAGGCCAAATGCTG-3 ' NGSP1: 5'-CCAAATGCTGGAATTGTTTTGAGTAC-3 ' GSP2: 5'-ACATCTGCCCATGCCCAAGCCCAACTG-3 ' NGSP2: 5'-CAGCATTTGGCCTCTCCAAAACAAGA-3 '	Primary PCR 5 cycles: 94°C, 30 sec; 72 °C, 3 min; followed by 5 cycles: 94°C, 30 sec; 70°C, 30 sec; 72 °C, 3 min; and 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3min; Final extension at 72°C, 7 min Nested PCR 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3 min; Final extension at 72°C, 7 min
<i>AeMVDD</i>	GSP1: 5'-CTTCTCAGCTGCTGGTTTTGCCTGT-3' NGSP1: 5'-TTGTGCGGTATCGCTAGGCAAGGTTTC-3' GSP2: 5'-ATACGATTGCTTATGGCCTCCTCCA-3' NGSP2: 5'-GATGCGTTTGGGCACTACTTCTTCCTG-3'	Primary PCR 5 cycles: 94°C, 30 sec; 72 °C, 3 min; followed by 5 cycles: 94°C, 30 sec; 70°C, 30 sec; 72 °C, 3 min; and 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3min; Final extension at 72°C, 7 min Nested PCR 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3 min; Final extension at 72°C, 7 min
<i>AeIPPI</i>	GSP1: 5'-AAATGATCGTGTGGTGGGACATGACA-3' NGSP1: 5'-ATGAGTTGCTTCTCCAGCAACGGTCA-3' GSP2: 5'-GAGAAGCTTCCTTTGTGCGGCATTTC-3' NGSP2: 5'-TTTGTGCGGCATTCTTACACCAAGC-3'	Primary PCR 5 cycles: 94°C, 30 sec; 72 °C, 3 min; followed by 5 cycles: 94°C, 30 sec; 70°C, 30 sec; 72 °C, 3 min; and 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3min; Final extension at 72°C, 7 min Nested PCR 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3 min; Final extension at 72°C, 7 min
<i>AeGDPS</i>	GSP1: 5'-AACAGTGATGCCAACAGCCTGTGCT-3' NGSP1: 5'-GGGGTGCGTCTGAAGAGGAAATTGA-3' GSP2: 5'-AGCACAGGCTGTTGGCATCACTGTT-3' NGSP2: 5'-TCATGGCCTCCAACAAGCTCACAAAG-3'	Primary PCR 5 cycles: 94°C, 30 sec; 72 °C, 3 min; followed by 5 cycles: 94°C, 30 sec; 70°C, 30 sec; 72 °C, 3 min; and 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3min; Final extension at 72°C, 7 min Nested PCR 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3 min; Final extension at 72°C, 7 min
<i>AePGT</i>	GSP1: 5'- GGTGGCTTGCAATTCAGCTGTTTCATT -3' NGSP1: 5'-GGAGCTCTCTTAGGCTCCTCTGCT-3' GSP2: 5'- GAGCAGCAATGCATCCTACTCCGAAC-3' NGSP2: 5'-GAGCCTAAGAGAGCTCCCAACTGA-3'	Primary PCR 5 cycles: 94°C, 30 sec; 72 °C, 3 min; followed by 5 cycles: 94°C, 30 sec; 70°C, 30 sec; 72 °C, 3 min; and 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3min; Final extension at 72°C, 7 min Nested PCR 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3 min; Final extension at 72°C, 7 min

		72°C, 7 min
<i>AePAL</i>	GSP1: 5'-ATGAAGTGAAACGCATGGTGGCTGA-3' NGSP1: 5'-CACATGACGACGGAGTCAAGGTGGA-3' GSP2: 5'-TTGGTGATGGCTTCCAGGATCTCAA-3' NGSP2: 5'-GCCTTAACACCTTCCCTGGCTGCTT-3'	Primary PCR 5 cycles: 94°C, 30 sec; 72 °C, 3 min; followed by 5 cycles: 94°C, 30 sec; 70°C, 30 sec; 72 °C, 3 min; and 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3min; Final extension at 72°C, 7 min Nested PCR 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3 min; Final extension at 72°C, 7 min
<i>AeC4H</i>	GSP1: 5'-TTCTTGGGATCACATTGGGACGTTT-3' NGSP1: 5'-TCTTGGGATCACATTGGGACGTTTG-3' GSP2: 5'-ATGCAGACTGAATTGCCACCTTTC-3' NGSP2: 5'-TGCAGACTGAATTGCCACCTTTCT-3'	Primary PCR 5 cycles: 94°C, 30 sec; 72 °C, 3 min; followed by 5 cycles: 94°C, 30 sec; 70°C, 30 sec; 72 °C, 3 min; and 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3min; Final extension at 72°C, 7 min Nested PCR 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3 min; Final extension at 72°C, 7 min
<i>Ae4-CL</i>	GSP1: 5'-TCAAGACCGTGCTTAATCAATGGCTCA-3' NGSP1: 5'-GCTCCCAAATTGCCCTGAATTTGTTTT-3' GSP2: 5'-GGTGGTTTTTCGTCTGTGTTTTCCAGGTC-3' NGSP2: 5'-CTTGAGTTTTTGGGGCATTGCTTGCTAC-3'	Primary PCR 5 cycles: 94°C, 30 sec; 72 °C, 3 min; followed by 5 cycles: 94°C, 30 sec; 70°C, 30 sec; 72 °C, 3 min; and 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3min; Final extension at 72°C, 7 min Nested PCR 30 cycles: 94°C, 30 sec; 68°C, 30 sec; 72 °C, 3 min; Final extension at 72°C, 7 min
Universal primer mix (UPM): supplied by the manufacturer 5'-CTAATACGACTCACTATAGGGCAAGCAGTGGTATCAACGCAGAGT-3' 5'-CTAATACGACTCACTATAGGGC-3'		
Nested universal primer (NUP): supplied by the manufacturer 5'-AAGCAGTGGTATCAACGCAGAGT-3'		