

Table 1 primers used in this study

Primer name	Primer sequence	Usage
RsPAL1-F	ATGGAGATTAACGGATCATCACAC	Gene amplification
RsPAL1-R	TTAGCATATTGGAATGGGAGCTCC	
RsPAL2-F	ATGGAGGTTAACGGATCATCACACG	Real-time PCR
RsPAL2-R	CTCTTAACATATAGGAATGGGAGCTCC	
RsPAL3-F	CACTAACTCAAAAACCAATGGATC	
RsPAL3-R	CAGAGGAATGCTTCTCTTAGC	
RsPAL4-F	GGTCATAAACCAATGGATCAGA	
RsPAL4-R	CAGAGGAATGCTGTCTTAGCAT	
RsPAL5-F	ATGGAGTTGTGCAAACAAAACAACAACC	
RsPAL5-R	TCAACAGATCGGAACCGGAGCTC	
QRsPAL1-F	GTCAACGGCGAGAGTGAGA	
QRsPAL1-R	TCATTAGGAAGCACCCACCTTG	
QRsPAL2-F	ATGGAGAGTATGGGCAAAGG	
QRsPAL2-R	GCGGAGTGTGGTAATGTGTG	
QRsPAL3-F	TGTCGCCCTTCACTAACTCA	
QRsPAL3-R	CGCACAACAACATCGCTTC	
QRsPAL4-F	AGGTTATTGTTGACCACGCT	
QRsPAL4-R	CCGCATCCACTTCTTTAGG	
QRsPAL5-F	CTGCCAAGCCATTGACCTAC	
QRsPAL5-R	TAACACCCGTTTCGCTACCT	Reference gene
QRsRPII-F	ATCACGCTAAATGGTCTCCT	
QRsRPII-R	GCTGCTCTCAATCAAGTCAATC	