Supplementary Information

Development of a fast and efficient root transgenic system for functional genomics and genetic engineering in peach

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Table S1 List of primers used in this study

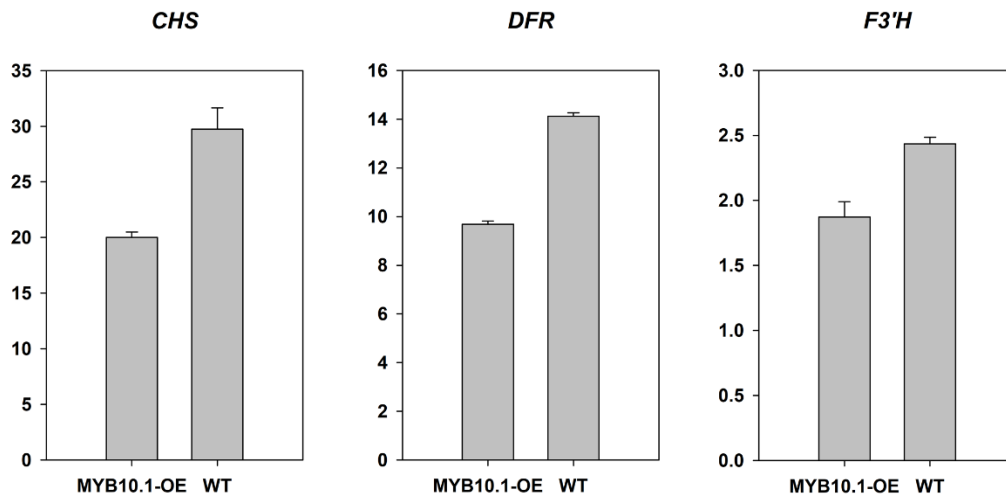| gene	Primers (5'-3')	
	Forward	Reverse
PpMYB10.1	GAAATGATTGGTGGGAAACC	GTCCTTCTTCTGAAACATTGGT
PpGST	ACTTCAACTTCTGGTGCTGC	GCTGCTCTTTGATAATCTTTCC
PpUFGT	GTCCTAGCCCATGCTTCAGTC	GATCTCCAACACGTCCTCCAC
PpGAPDH	TGCCATTGAAATCCTGAAAC	ACCAATTGGATCATCCTCCT
PpCHS	*AACAAGGGTGCTCGTGTTCTC*	*GCTGCACCATCACCGAATAAG*
PpCHI	*GAGATCGTTACAGGTCCATTTG*	*GTGGGAAGTTTTGATCCTTGA*
PpF3H	*GGACTGGACACAGAGGCATT*	*AATTGTGCCTGGGTCAGTGT*
PpF3'H	*CTCTCGCTCAAAGAGGATGC*	*CCATTCCACTGTGCTTGATG*
PpDFR	*CGCCTCCAAGACTCTAGCTG*	*CCAGTGAGTGGGGAAAGTCC*
PpLDOX	*AGGAGTTGAAGAAGGCAGCA*	*GCCTGGTCATTGGCATACTT*
DsRED1	CCCAGTTCCAGTACGGCTC	*ATGGTGTAGTCCTCGTTTGTG*
PpMYB10.1-PSAK277	ACGCACAATCCCACTATCCT	TCATGCGATCATAGGCGTCT
rolB	GCTCTTGCAGTGCTAGATTT	GAAGGTGCAAGCTACCTCTC
VirD	ATGTCGCAAGGCAGTAAG	CAAGGAGTCTTTCAGCATG

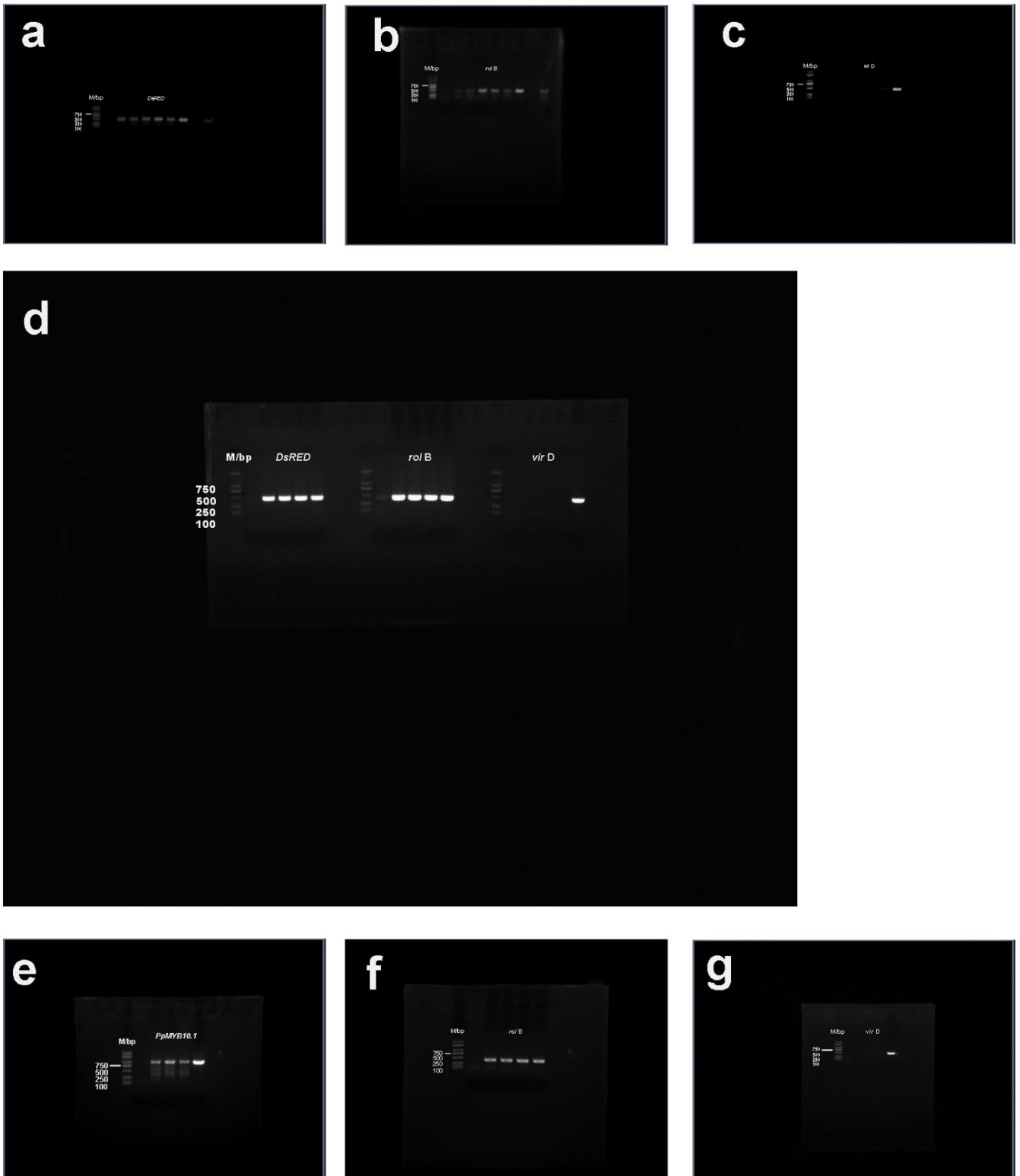Figure S1 Expression levels of genes involved in anthocyanin synthesis in transgenic and wild type roots.

Figure S2 The full-length gels for cropped gels used in Figure 2 (a-c), 3 (d) and 5 (e-g).