

Fig. S1 The gel electrophoresis detection of *PbCOP1s* overexpression vector

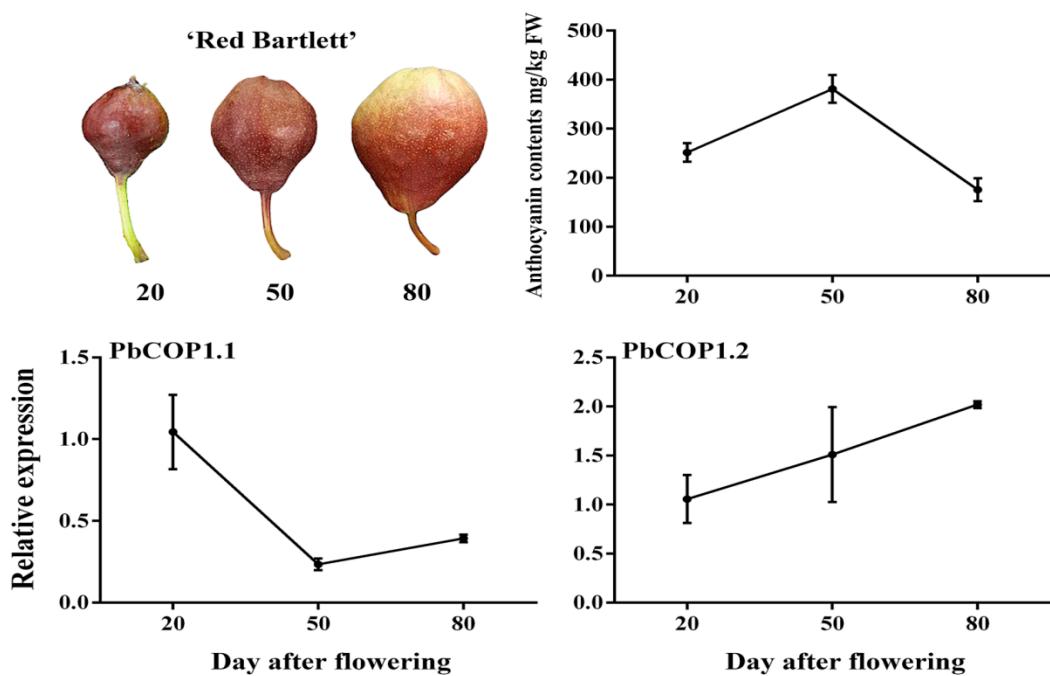


Figure S2. Anthocyanin content and *PbCOP1s* expression levels of 'Red Bartlett' at different stages of fruit development. Data are mean \pm SE of three biological replicates.

Table S1 The primer sequences used for overexpression-vector construction and real-time PCR

Gene name	Forward primer sequence	Reverse primer sequence
<i>PbCOP1.1</i>	5'-CAATGGGTGGTGCCTGGTC-3'	5'-GAGGAAGGCCCTCTGATGAT-3'
<i>PbCOP1.2</i>	5'-CGGTTATGGAATGTGAGGGATAA-3'	5'-TTTATGCCAACGTCACAGGTTAGAG-3'
<i>PAL</i>	5'-TCCATGGACAACACTCGCTT-3'	5'- AGAAACTGCAGCTCGGAACA -3'
<i>CHS</i>	5'-ACTGTCGAGGAAGTCGCAA-3'	5'-CGGGATATGTGGCTTGATCC-3'
<i>CHI</i>	5'-ATCGAGGGCAAGTGGTGAA-3'	5'-CCTGTGACGACGTCCTTGAT-3'
<i>F3H</i>	5'-TGGTTCTGGAATGTGGCTATGGA-3'	5'-TGGGAAGACATGGATCACCGTTCA-3'
<i>DFR</i>	5'-GATTTCATCACCATTATCCAACTC-3'	5'-TGCCAACCTTGACATCAACGAG-3'
<i>ANS</i>	5'-AGCTTCAACACCAAGTGAAGCTC-3'	5'-TTGGATGAAGGGAGGCTGGAGAAA-3'
<i>UFGT2</i>	5'-GGACACTATCGGAACCTAAGG-3'	5'-AGTCGAGTTCTCGAAACAG-3
<i>MYB10</i>	5'-TCATCGACAAAGAATGGAA-3'	5'-CTAACTGAAGGCTGGGACA-3'
<i>MYB10b</i>	5'-AGATTCACAGAGGACGAA-3'	5'-CCCCTAACCTAACTAGA-3'
<i>bHLH3</i>	5'-ACTTCGGCAGTGGCGTTC-3'	5'-TCACATTCTCGCGTTAGCAA-3'
<i>bHLH33</i>	5'-GTGATGCAAACACTTAGGGAGC-3'	5'-TTGCCACTCACGTTATCCTCA-3'
<i>HY5</i>	5'-GCGGCTGAAGAGGTTGTTGAG-3'	5'-AGCATCTGATTCTCATTCTGCAAAG
<i>GST</i>	5'-AAGTATGCAGGCCGTGGC-3'	5'-CAGGTCGTTGAAGTTGTGGC-3'
<i>PHYB</i>	5'-ACCACAAACACGGAGTCTATGAGC-3'	5'-GAATCTTGGTGGTTTCATGCT-3'
<i>ACTIN</i>	5'-CCATCCAGGCTGTTCTCTC-3'	5'-GCAAGGTCCAGACGAAGG-3'
pBI121-PbCOP1.1	5'-GGACTCTAGAGGATCCATGGTCTACTCAC GCACGC-3'	5'-GATCGGGGAAATTGAGCTCTCAGGC TGCAAGTACGAGCAC-3'
pBI121-PbCOP1.2	5'-GGACTCTAGAGGATCCATGGAGGAGTGCT CGACCG-3'	5'-GATCGGGGAAATTGAGCTCCTATGC CGCAAGAACCAACACT-3'