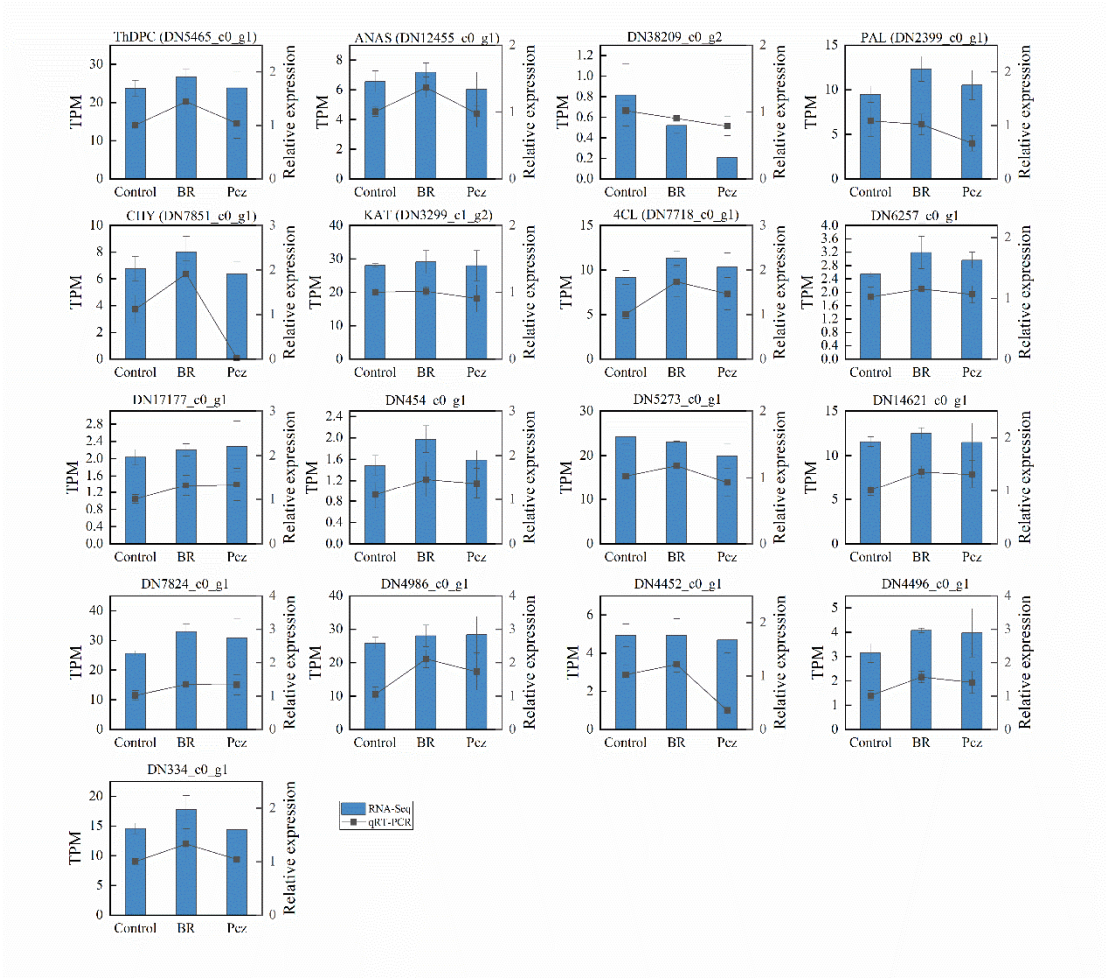
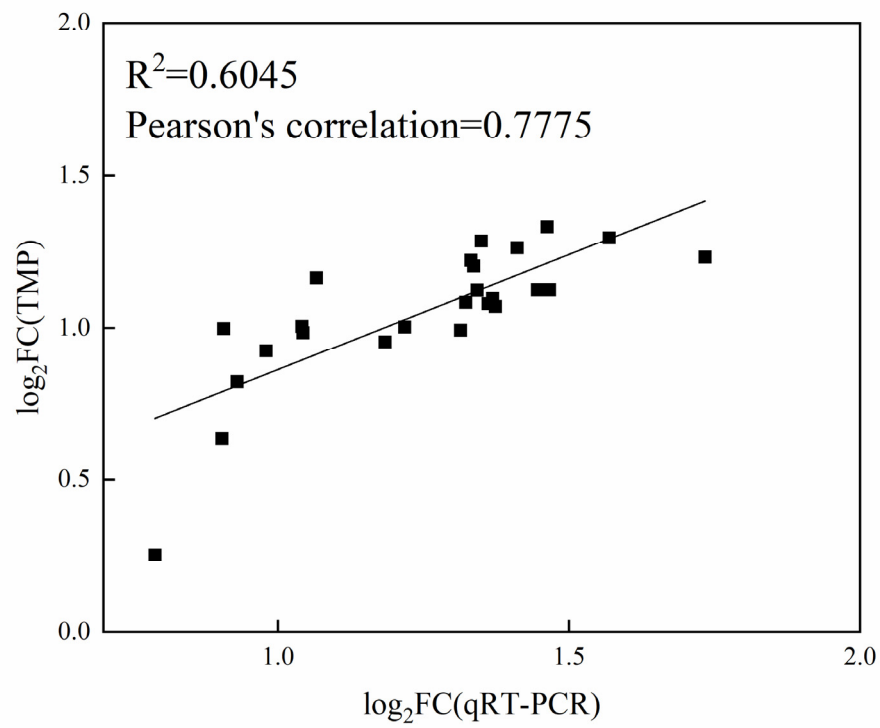


Supplementary Figures and Tables:



Supplementary Figure S1 Comparison of the expression patterns of unigenes involved in the ephedrine biosynthesis under control, BR, and PcZ treatments by qRT-PCR and RNA-seq. Values are means of three replicates $\pm$ SE.



Supplementary Figure S2 Correlation plot between RNA-seq and qRT-PCR for the relative expression of unigenes.

Supplementary Table S1 Summary of annotation of *P. ternata* bulbil unigenes

Database	Number of annotated unigenes	Percentage of annotated
GO	33092	28.66%
KEGG	15065	13.05%
COG	32699	28.32%
NR	38971	33.76%
Swiss-Prot	25696	22.26%
Pfam	27050	23.43%
Total annotated	40992	35.51%
Total Unigenes	115445	100.00%

Supplementary Table S2 Primers used for gene expression analysis by real-time quantitative PCR

Unigene name	Sequence (5'-3')
DM2399_c0_g1	F: GCCATTTTGTGATCCGTTCTG R: TCCATCTGATCTCCCTCGTC
DN7718_c0_g1	F: TGCAGTGATGGATTTCGTGG R: TTGGAGGTGGCGAGTTTG
DN7851_c0_g1	F: TTCTCAAGGGATTTCGGCAAG R: CACAAGAACCCACAAACCAAG
DN3299_c1_g2	F: TGACATTGGTATTGGAGCTGG R: TTCTGAAGTGATGCCCATAGG
DN38209_c0_g2	F: TGATTACTGAACGTTGCAGGG R: ACCTCTTCACCGTATTTGTCG
DN12455_c0_g1	F: GTTTGGGTGCTATGGGTTTTG R: GATTCTCCACCCGTATCATAGC
DN5465_c0_g1	F: GTTCAACTGCCAGAACTTCG R: ATCACTCGCTTGTCTTGG
DN7824_c0_g1	F: TCTGGCTCTGCTATGTGTTG R: TTTACGTTGTCACCCCTGTAG
DN14621_c0_g1	F: CCCCTGAACATAACCCTTTATCTG R: GTGTCACCCGTCATATCATGTAG
DN4452_c0_g1	F: TGCAAACCTCCATAGCAGGG R: AATCTTCACTATGTCAGCCCC
DN17177_c0_g1	F: GTTGCTCAAAGCTTCGGAAAG R: GTATTTGCTCCCTGGACTGG
DN6257_c0_g1	F: GTTGCAGGGTGAAGTTTGTC R: TTGCCTTCCGTTGATCTCC
DN334_c0_g1	F: CACAACCCTCCACAGTGATAG R: GCCAGATGTACAAGTCTCCAG
DN4986_c0_g1	F: GAACAGCTCTAGGAACTACGC R: AAAAAACACCGTAACCAGGG
DN4496_c0_g1	F: AGGAGAGGGTAGAAATGAAAGC R: TCCCCATAAAGATCAGCAACC
DN5273_c0_g1	F: GAGATGTGGGAGAGGACTTTG R: TGTTTAGGAGCGGCAAGATAC
DN454_c0_g1	F: GCGGCATCTTAAGGGATCTG R: CCTCTTCCTGCTCCTGTTG
Pt18S	F: CGCATATAAATAAACGGAGGAA R: GACGCTTCTACAGACTACA