

Supplementary data:

Expression profiles of genes involved in tanshinone biosynthesis of two *Salvia miltiorrhiza* genotypes with different tanshinone contents

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Table 1. *S. miltiorrhiza* genes and primer pairs used for qRT-PCR.

| Gene | GenBank accession | Primer name | Primer sequence | PCR product (bp) |
|------------------|-------------------|--------------------------------------|---|------------------|
| <i>AACT</i> | F635969 | <i>SmAACTKF</i> <i>SmAACTKR</i> | 5'-ACGACCATCCACCATTG-3' 5'-GCTTTCTGTCCGCTTACTA-3' | 171 |
| <i>HMGS</i> | FJ785326 | <i>SmHMGSKF</i> <i>SmHMGSKR</i> | 5'-CAGGAGGGCAAGCAGTT-3' 5'-TTGTTTTGGGACGAGAG-3' | 279 |
| <i>HMGR</i> | EU680958 | <i>SmHMGRKF</i> <i>SmHMGRKR</i> | 5'-AAGCAGGGACATCACGA-3' 5'-TACAGCCAACAGCAAAACT-3' | 292 |
| <i>DXS1</i> | EU670744 | <i>SmDXS1KF</i> <i>SmDXS1KR</i> | 5'-CTGAAAGAGGGGAATACT-3' 5'-TTCGTGAAACCAGAGAG-3' | 340 |
| <i>DXS2</i> | FJ643618 | <i>SmDXS2KF</i> <i>SmDXS2KR</i> | 5'-TCTCCCGCTGAAGTTGCT-3' 5'-ATCCTGTCGTCTGCTCT-3' | 152 |
| <i>DXR</i> | DQ991431 | <i>SmDXRKF</i> <i>SmDXRKR</i> | 5'-GCTGGAAAAGACATCGC-3' 5'-AGCCCCAAACAAATAGT-3' | 348 |
| <i>CMK</i> | EF534309 | <i>SmCMKKF</i> <i>SmCMKKR</i> | 5'-CTCACAATCCTAAACCACA-3' 5'-AATCCCAGCATCCCTAT-3' | 236 |
| <i>IPPI</i> | EF635967 | <i>SmIPPIKF</i> <i>SmIPPIKR</i> | 5'-ATCCCAAACCCAACGCC-3' 5'-CACCAACGGAAAAAGTAACCT-3' | 326 |
| <i>FPPS</i> | EF635968 | <i>SmFPPSKF</i> <i>SmFPPSKR</i> | 5'-TGTGTTTGCTGAGTTTGAG-3' 5'-ATGCGGTTTATGTGTGTTA-3' | 341 |
| <i>GGPPS</i> | FJ643617 | <i>SmGGPPSKF</i> <i>SmGGPPSKR</i> | 5'-AAGCCCACCAATCACAAG-3' 5'-AAAGTCGGAGTCGCCAAA-3' | 222 |
| <i>CPS</i> | EU003997 | <i>SmCPSKF</i> <i>SmCPSKR</i> | 5'-TTCCACATCTCCACTCAA-3' 5'-TACTGCTGCTGCCCCATC-3' | 157 |
| <i>KSL</i> | EF635966 | <i>SmKSLKF</i> <i>SmKSLKR</i> | 5'-TGATTACTTGTCTGCCTCC-3' 5'-TTTCTTTGCGTTCCTTC-3' | 191 |
| <i>Ubiquitin</i> | – | – | 5'-ACCCTCACGGGAAGACCATC-3' 5'-ACCACGGAGACGGAGGACAAG-3' | 207 |

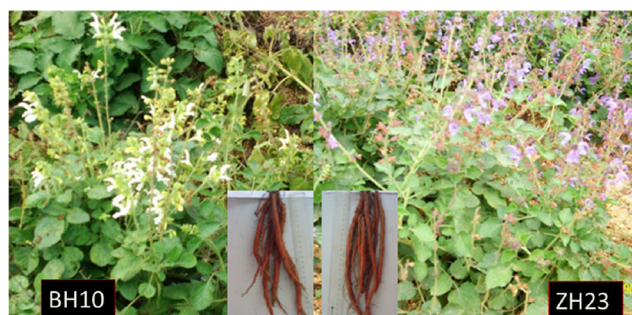


Figure 1. Plant phenotypes and root characters of BH10 and ZH23.