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| **Table S1** Primers information used for real-time PCR analysis of *D. officinale* genes | | | |
| **Gene name** | **Primer sequences（5’→3’）** | **Size（bp）** | **TM（°C）** |
| HSP70-F | AACTCTTTCCTCCACTGCCC | 166 | 62 |
| HSP70-R | TGTCCATCTTCGCATCTCTCA |
| CYP86A4S-F | CTTTCCAGTCGCCTAAATGCT | 161 | 62 |
| CYP86A4S-R | ATCTCGTCAAACTCCTCCGC |
| ERF013-F | GCTGATGCCTTTGAATGTATGG | 100 | 62 |
| ERF013-R | GAAGAGGGCTGATTTAGGGC |
| CRY DASH-F | AACAGTGATTGAAACGGCTG | 136 | 62 |
| CRY DASH-R | GCTGAATGATGTTGCTTCGT |
| SPA1-F | TCAGAACCAACTTGAACTGCC | 175 | 62 |
| SPA1-R | GCCACTTTGTGAATCCTTCG |
| HY5-F | CAACCCTGCGACTCACTCAT | 163 | 62 |
| HY5-R | CTTGCGTTTGAAGCCGTAAT |
| CO16-F | GTGGCAGAACAAGTTGATGCTA | 131 | 62 |
| CO16-R | AGCGTTTGCTGGATTGGAAT |
| MYC2-F | GATTCCTCATCGGGTGGTTC | 184 | 62 |
| MYC2-R | CACTACAGGACCTCATTACGGC |
| PIF4-F | AACTCTTTCCTCCACTGCCC | 127 | 62 |
| PIF4-R | TGTCCATCTTCGCATCTCTCA |
| actin-F | AGCCATACTGTCCCAATCTACG | 114 | 62 |
| actin-R | AGCCACGCTCGGTAAGAATC |