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| Table S2 Primers information used for real-time PCR analysis of *D. officinale* genes |
| **Gene name** | **Primer sequences（5’→3’）** | **Size（bp）** | **TM（°C）** |
| novel\_miR\_53 | ATTGGGGGATTGCTACCTT | 19 | 60 |
| miR395b | CTGAAGTGTTTGGGGGAACTC | 21 | 60 |
| miR399c | GGCAAATCTCCTTTGGCAGA | 20 | 60 |
| miR399t\_3p | CCAAAGGAGATTTGCCCAG  | 19 | 60 |
| novel\_miR\_36 | GCGCCGAGCTTTGTTGTGTA  | 20 | 60 |
| novel\_miR\_483 | GCTTCTGATTGATCTCTGAACGG | 23 | 60 |
| novel\_miR\_390 | GCTGGTCTTATTTGAGCATGA | 21 | 60 |
| novel\_miR\_159 | GCTGGATGTGAAATTTATGCAT | 22 | 60 |
| novel\_miR\_178 | TTCCATCTGAAACGTTTGAATC | 22 | 60 |
| novel\_miR\_405 | GCGCTTACGTGATGAAGAAAACT | 23 | 60 |
| 5.8 s rRNA | GTCTGCCTGGGTGTCACAA | 19 | 60 |
| *THF*2-F | GAATCCATAAGGAGAACCTGGC  | 183 | 60 |
| *THF*2-R | GAGCATAGTTGGTGACGGCT  |
| *ASA*1-F | TCACCAGGGAGAAGCCAGTA  | 183 | 60 |
| *ASA*1-R | CTCAGTTTCCTCTCATCGCAG  |
| *GGP*1-F | GCTATGCTGAGAAACAGGCG  | 121 | 60 |
| *GGP*1-R | CTCATCATAATCTTTCCTCCGC  |
| *CYP*86*B*1-F | TCCTGATGGAACTGTGCTGAA  | 229 | 60 |
| *CYP*86*B*1-R | CTGCGACGAACTTCATCTGG  |
| *YUCCA*2-F | AGTTCTTGATGTTGGCACCCT  | 163 | 60 |
| *YUCCA*2-R | TTTAGGCTTCGTTTGGGATG  |
| *PPT*11-F | GTGGTGTTGAGAGCAAACGAC  | 209 | 60 |
| *PPT*11-R | GCGTTAGGTAGTTGACAGCCAG  |
| *DCL*2a-F | TTTCGTCGTTGCTGATTCG  | 101 | 60 |
| *DCL*2a-R | TCTATTCTCCTCCTGCGATGC  |
| *PHYA*-F | ACATCAAGACCCTCACAGTCCT  | 191 | 60 |
| *PHYA*-R | TCTGTTCCAATGCCGAGTG  |
| *PIF*3-F | AAGATTTAGGCTCATTCGGGAC  | 131 | 60 |
| *PIF*3-R | TTTGGGACAGGCTTTCTTACTG  |
| *PIF*4-F | CAAATGCCTCCTCAGGTTTCT  | 203 | 60 |
| *PIF*4-R | AAAGCGTCACACTCATCCCA  |
| *SPA*1-F | TTTGGGCTCACTAACGCTC  | 169 | 60 |
| *SPA*1-R | TCCTCAGATGTTGACGGAAC  |
| *actin*-F | AGCCATACTGTCCCAATCTACG | 114 | 60 |
| *actin*-R | AGCCACGCTCGGTAAGAATC |