**Table S2. Primers used for gene expression analysis.**

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| **Gene** | **AGI Code** | **Forward Primer** | **Reverse Primer** |
| MAF5 | At5g65080 | TTTTTTGCCCCCTTCGAATC | ATCTTCCGCCACCACATTGTAC |
| GAPC2 (3'-end) | At1g13440 | TCTCGATCTCAATTTCGCAAAA | CGAAACCGTTGATTCCGATTC |
| GAPC2 (5'-end) | At1g13440 | TTGGTGACAACAGGTCAAGCA | AAACTTGTCGCTCAATGCAATC |
| UBQ10 | At4g05320 | GGCCTTGTATAATCCCTGATGAATAAG | AAAGAGATAACAGGAACGGAAACATAGT |
| Aconitase  | At2g43100 | AACATGCTCCGGTCTGTCTTGG | TGCGTAAGACTCAGCAACTATGGC |
| ATR1/MYB34 | At5g60890  | AGACCCGACATTAAGAGAGGAGAG | ATTGCGGCCCACTTGTTACC |
| BCAT4 | At3g19710  | TCGTGATTTCGGCTACCAGGTC | AGCTTCGTCCGCATCGAGAAAG |
| CYP79B2 | At4g39950  | TCAAACCCACCATTAAGGAGCTTG | TTCCACGGCGTTTGATGGATTG |
| CYP79B3 | At2g22330  | ACCGGAAAGAGAGGATGTGCTG | CGCTAGCATCATGGTCGTTATCGC |
| CYP79F1 | At1g16410  | CATTATGTCCCTTCCCATCTTGCG | ACATGAATGTGGCTACCTTTGGG |
| CYP79F2 | At1g16400  | CCTCATGTTGCCCGTCAAGATACC | ACGCTCCGGTTCGTATGCTAATG |
| CYP81F2 | At5g57220  | CATCATCAAAGGGCTCATGCTCAG | AATGTTACGGCCGCAGTATCCG |
| CYP83A1 | At4g13770  | AAGAGAGTCAAGCCCGAAACCG | GTTCCCGCCACTACAATATCCAAG |
| CYP83B1 | At4g31500  | TGGATATTGTTGTGCCGGGAACTG | ACACTCCTCACTTCGTCTTGAGC |
| ESM1 | At3g14210  | GCGCCGGTTGAATCTATGACAC | TTTCTCGATGTAGCTGTCGTTCC |
| ESP | At1g54040  | TGAATACTCCCACGCGGTTCAG | AGCTGAGCCCATTTCCCATCAG |
| FMOGS-OX2 | At1g62540  | GCCGTTGTTGTTTGCAGTGGAC | ATTTCCGATGACCACCACCACCTC |
| FMOGS-OX5 | At1g12140  | CTTCATCGGTTTACCCTGGATGAC | GCCTCACGCTTTGCATAGTAGG |
| GSH1 | At4g23100  | TGTCCTGAAACTCGCAAAGGATG | CATCGACTGCGTTCAAGAAACCG |
| HAG1/MYB28 | At5g61420  | AGACTGCGATGGACCAACTACC | TCTCGCTATGACCGACCACTTG |
| HAG3/MYB29 | At5g07690  | AGTTGTAGATTGCGATGGGCTAAC | TGTCTCGCTATGACTGACCACTTG |
| HIG1/MYB51 | At1g18570  | CCTTCACGGCAACAAATGGTCTG | TACCGGAGGTTATGCCCTTGTG |
| HIG2/MYB122 | At1g74080  | GAGAGTTTAGCCAAGACGAGGAAG | CTATGGCCGACCATTTGTTGCC |
| MAM1 | At5g23010  | AAGTGGCAATGCGTCGCTTGAG | AGCCCGTGTACTCTTGAACCATC |
| MAM3 | At5g23020  | TGCTACCGCCAACACAATATCCG | ACATTTCAAAGCCATCACGACCTC |
| NSP1 | At3g16400  | TGCTTGGGAAGTGGATTAAGGTG | GGGCTGATTTGGTGTGAACTCG |
| NSP3 | At3g16390  | GCGCGATTTGATCATGACCGTTTG | CATCACACAGACACACAGACACAC |
| NSP5 | At5g48180  | TGTTTCCGGCGGTTTCTTACGG | TAAGCTCATGCGGCTCTTCCTC |
| PEN2 | At2g44490  | TGCGCATAATCCACTTTGGTACG | AGTCGGATGCTGATGCCAAC |
| PEN3 | At1g59870  | ACTGCAGATGGGAACAGAAGAGG | TTCTTATTGCCTGCACCACCTG |
| SUR1 | At2g20610  | CCGGCAAAGGCAATTCTTACGG | TCATATAATCAGCAACGGCTCGTC |
| TGG1 | At5g26000  | ATGGACTCACGCACAACTCTCAC | AGTAACTGGCTGCATTGAACGG |
| TGG2 | At5g25980  | CCGCAAGGCCATCAAGTGAAAG | AATCTGACGGTGTAGCCGTTGC |
| UGT74B1 | At1g24100  | ACGTTGGAAGGGTTGAGTTTGGG | TCTGATCACTCCACTGAGGCACAC |