**TableS1 The primers used for qPCR**

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| --- | --- | --- | --- |
| Gene ID | Annotation | Forward（5’-3’） | Reverse（5’-3’） |
| Sme2.5\_01077.1\_g00016.1 | CHS1 | AGATGTTCCTGGATTGATCTCCAAA | TAATTCAACTTGGTCCAGAATTGCC |
| Sme2.5\_02154.1\_g00001.1 | CHS2 | TCCATTACCAGAAGTCGAAAG  | TTCCAATCAGAAATGCCTAA |
| Sme2.5\_01193.1\_g00009.1 | CHI | CCTTGACGGGTAAGCAATACTCTG | GATGGAGGCACCATGTGGGAAGG |
| Sme2.5\_00015.1\_g00020.1 | F3H | GTGGTCCAAGACTGGCGTGAAAT | TTCTCTAACCCCATTGCTTCTGATA |
| Sme2.5\_04313.1\_g00001.1 | F3’5’H | TGGACCTCGTTGGAAGTTGCTAAG | TGCCATCGCGAACGTCAACATAT |
| Sme2.5\_01401.1\_g00004.1 | DFR | GGCCATTGAGACTTGCCGACAG | CACCATTGGTCAACTGTCCTGTACT |
| Sme2.5\_01638.1\_g00005.1 | ANS | CTCGATTCCCACCTCGGACCTT | TCAGCTGCAGCGTCCTGTTTGT |
| Sme2.5\_00843.1\_g00005.1 | 4CL | CATAGAAGAGTCCCGCAAGC | TGGCTGCTTAGCAAATGATG |
| Sme2.5\_06210.1\_g00004.1 | UFGT1 | GATATGAAAGCTGGGGTGGA | CACCATCACCATCTCCACAG |
| Sme2.5\_00228.1\_g00013.1 | UFGT2 | GGATGGAATTCGATTTTGGA | CCCAAACACTTTCCACCATT |
| Sme2.5\_00747.1\_g00012.1 | WD40 | GCTGTCGAAACCCAATTGAT | ACCGACCCATCAGCAGATAC |
| Sme2.5\_00407.1\_g00003.1 | bHLH18 | ATCGAGGCCATGGGATTTGG | TGAGTTAGCCGTTCTCGTCG |
| Sme2.5\_00735.1\_g00008.1 | bHLH36 | TCAAGAGGGGCTTACCATAGTG | GGCTGATAACTGGAAACCTCAG |
| Sme2.5\_01808.1\_g00003.1 | bHLH49 | CTATGAATCAGCACCAGACTGC | GGAATAGGAGGTACAAGCATGG |
| Sme2.5\_05426.1\_g00001.1 | bHLH71 | CTGTCCTTCACCTCAATGTCAC | CCTGCTATGTCATCTGCTGAGT |
| Sme2.5\_13712.1\_g00001.1 | bHLH93 | GATGTGGAAAGGAGAGGTGTTG | GCTTCTAGGGTGGTCACTGTTG |
| Sme2.5\_04383.1\_g00001.1 | bHLH94 | GTCTATGGCTCACTGTTCTCCA | CAGTACTTAGCTGGCACCCTTC |
| Sme2.5\_29845.1\_g00001.1 | TT8 | GGTGTTAGTGTGGAGAGATGGA | GAGTCTCCGGCAGAAAGTGAT |
| Sme2.5\_00747.1\_g00013.1 | TTG1 | ACATTCTTGCCTCTTCGGGG | AGGGGCAACGTATTCACCAG |
| Sme2.5\_05099.1\_g00002.1 | MYB1 | CAAGTGACAAGCAAACTACCG | TCTTCTCCTTCAACAGCGTC |
| Sme2.5\_11221.1\_g00002.1 | MYB12 | ACAGTGGGATGGAATGGCTA | TCCCTGCCTTGTTGCTAACT |
| Sme2.5\_00155.1\_g00001.1 | MYB108 | ATCGCCCAATATCTGCCAGG | TCTGAAGAAGCCGCGGTATC |
| Sme2.5\_06702.1\_g00005.1 | EFM | TATGGGTCCCACCACCAGAT | ATCATGGAGCGGACCCTTTG |
| Sme2.5\_03242.1\_g00007.1 | APL | GAATTAGGCGGAGGAGGAGC | TCAAGCTCCGGATTGCAACT |
| Sme2.5\_00805.1\_g00004.1 | MYB330 | CGGAATTGAACCAAAGCCCC | TGGGCTTTGGTGCGAATACT |
| Sme2.5\_07055.1\_g00007.1 | MYB5 | GAACTACCTCCGCCCTTCTG | TCCCCGCTATCAATGACCAC |