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| **Table S1** Primers used in this study |
|  Primer name | Primer sequence (5’-3’) |
|  Primers for 5’/3’ RACE |
|  5GSP1 | CCAGTAGTTCTTGATCTCATTGTCT |
|  5GSP2 | CTGAAACGCGGCGCTGTTAGAGTCT |
|  5GSP3 | CCTGCTGGGATATGGATTGTGTGTT |
|  3GSP1 | AGCTTTCTGAATTCCCCAAAACTGC |
|  3GSP2 | GTTTTAGCCCTTCACCGTTCCCAGA |
| Primers for 5’-promoter region |  |
| GW1 | GCCCTCTCCTAAGCTCTGT |
| GW2 | CAAGAAGATTCCATCTGCCTTC |
|  Primers for constructing vectors |
|  OS-F- *Bgl*Ⅱ | GAAGATCTATGGCTTCTTCTCCATCTAAAAGCT |
|  OS-R-*Pml*Ⅰ | GCCACGTGTCAGAATTTATCCATACTCCATAAG |
|  83S-F-*Spe*I | GACTAGTATGGCTTCTTCTCCATCTAAAAGCT |
|  83S-R-*Asc*I | GGCGCGCCAGAATTTATCCATACTCCATAAG |
|  pBD-1-F-*Nde*I | GGAATTCCATATGATGGCTTCTTCTCCATCTAAAAG |
|  pBD-1-R-*Sal*I | GCGTCGACTCAGAATTTATCCATACTCCATAAG |
|  pBD-2-F-*Nde*I | GGAATTCCATATGATGGCTTCTTCTCCATCTAAAAG |
|  pBD-2-R-*Sal*I | GCGTCGACGTTAGAGTCTATCTTCAGATGCCTG |
|  pBD-3-F-*Nde*I | GGAATTCCATATGATGGCTTCTTCTCCATCTAAAAG |
|  pBD-3-R-*Sal*I | GCGTCGACGGATAATGCAGTTTTGGGG |
|  pBD-4-F-*Nde*I | GGAATTCCATATGTACTGGAGAACCAGGGTGC |
|  pBD-4-R-*Sal*I | GCGTCGACTCAGAATTTATCCATACTCCATAAG |
|  pBD-5-F-*Nde*I | GGAATTCCATATGAGCGCCGCGTTTCAG |
|  pBD-5-R-*Sal*I | GCGTCGACTCAGAATTTATCCATACTCCATAAG |
|  pBD-6-F-*Nde*I | GGAATTCCATATGTCCATTCAACACTCTGATGAG |
|  pBD-6-R-*Sal*I | GCGTCGACTCAGAATTTATCCATACTCCATAAG |
|  pBD-7-F-*Nde*I | GGAATTCCATATGTTGTCCAAATGGTCATCACC |
|  pBD-7-R-*Sal*I | GCGTCGACTCAGAATTTATCCATACTCCATAAG |
|  pBD-8-F-*Nde*I | GGAATTCCATATGTACTGGAGAACCAGGGTGC |
|  pBD-8-R-*Sal*I | GCGTCGACGGATAATGCAGTTTTGGGG |
|  pBD-9-F-*Nde*I | GGAATTCCATATGAGCGCCGCGTTTCAG |
|  pBD-9-R-*Sal*I | GCGTCGACGGATAATGCAGTTTTGGGG |
|  Pro-F | CTTATACGGTAAACGGGTCG |
|  Pro-R | GCTTGATGAAATGGCAGGA |
|  Primers for identifying transformants |
|  35S-F | GAACTCGCCGTAAAGACTGG |
|  *IbMYB116*-R | TCAGAATTTATCCATACTCCATAAG |
|  Primers for qRT-PCR |
|  *Ibactin*-F | AGCAGCATGAAGATTAAGGTTGTAGCAC |
|  *Ibactin*-R | TGGAAAATTAGAAGCACTTCCTGTGAAC |
|  *IbMYB116*-F | CGATTGCCATCAAACCACA |
|  *IbMYB116*-R | CTCCTCCAGTTCCAAGCAGAT |
|  *Atactin*-F | GCACCCTGTTCTTCTTACCGA |
|  *Atactin*-R | AGTAAGGTCACGTCCAGCAAGG |
|  *AtLOX*-F | CAAACCTCAGAAGACGATGTAAGG |
|  *AtLOX*-R | GACCTCTCGACCAAGTTATGCC |
|  *AtAOS*-F | CGATTTCTCTCCACCCAAAAAC |
|  *AtAOS*-R | GGTCTTTGATTGGTCCTACGATT |
|  *AtAOC*-F | TCAGAACTTGGGAAATACCGAA |
|  *AtAOC*-R | TAAGAATTTTTGGGCTGTGTCG |
|  *AtOPR*-F | CTACTGTCATGTGATTGAAGCG |
|  *AtOPR*-R | AAAAGTCCCCTTAAACGCTTTC |
|  *AtOPCL*-F | CTACTGTCATGTGATTGAAGCG |
|  *AtOPCL*-R | AAAAGTCCCCTTAAACGCTTTC |
|  *AtACOX1*-F | GAGGATATGAAGATCGTCTGGG |
|  *AtACOX1*-R | TCATTGAGACGAAGCTCGATAA |
|  *AtACOX3*-F | GATCACAATGAAACGGATCTGG |
|  *AtACOX3*-R | AGACGGAGTGATCATAAATCCC |
|  *AtMFP2*-F | CCGTCAATTCTCTATCCTTCGA |
| *AtMFP2*-R | AGTCGGTTATGATGTCAATCGA |
|  *AtfadA*-F | TTCACAGTTCTTCCACTAGACC |
|  *AtfadA*-R | GTGAAACAAGTAACCCCATGTC |
| *AtACAA1*-F | CGGTTTAATGTTTCAAGGGAGG |
| *AtACAA1*-R | AGCAGTTGTGGTTCCGTCTTC |
| *AtCOI1-*F  | TTGCTGAACAAGTTATGGAAGC |
| *AtCOI1*-R | CTGCTGCAGAGTCATTCTACTA |
| *AtJAZ1*-R | CGGGCAAGTGATTGTATTCAAT |
| *AtJAZ1*-R  | AGGAACTTGGTTTGCGATAGTA  |
|  *AtMYC2*-F | CGGATCAGGAGTACAGGAAAAA |
|  *AtMYC2*-R | GAAAAACCATTCCGTATCCGTC |
| *AtSOD*-F | ATGAGAAGTTCTATGAAGAG |
| *AtSOD*-R | GTCTTTATGTAATCTGGT |
|  *AtGPX*-F | ATGGCGACGAAGGAACCAG |
|  *AtGPX*-R | ATCGCCGAAGATTCCCCATTT |
| *AtPOD*-F | TCCGGGAGCACACCATTGG |
| *AtPOD*-R | TGGTCGGAATTCAACAG |
| *AtCAT*-F | GCAACTACCCCCGAGTGGAAA |
| *AtCAT*-R | TGTTCAGAACCAAGCGACCA |
| *AtDHAR*-F | ATGGTCCTTTTATCGCCGGG |
| *AtDHAR*-R | GCCCATCCAGAGATCACACA |