**Table S2 Primers used in this study.**

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| --- | --- | --- |
| Purpose | Primer name | Sequence (5'-3') |
| Plant expression vectors construction | MnEIL1 F | CATGCCATGGTAATGGGCATTTTCGAAGAGCT |
| MnEIL1 R | GAAGATCTCCGATGTACCAGAGGGAGACAT |
| MnEIL2 F | GAAGATCTGATGGGGTTTTCTGGTAAT |
| MnEIL2 R | GGACTAGTGAGGTACCAGAGCGAGACGT |
| MnEIL3 F | CATGCCATGGTAATGGCCTATGACTCATTGGT |
| MnEIL3 R | GAAGATCTCCTGCTCCGAAGTAATGAATCA |
| MnACS1pro F | GTGAGTAGAAATGGTGGATGAC |
| MnACS1pro R | TATTAATTTGGTTTTCTCGGATGAG |
| MnACS3pro F | CCCATTTGAAACATTGTGGCAC |
| MnACS3pro R | CGAACAATATTTTGTTATGATC |
| Expression  pattern  analysis | MnEIL1 F | GGAGGCTTTAGAGCATGAGC |
| MnEIL1 R | TCAATAGCATGCGGTCTCTC |
| MnEIL2 R | AACGATGATGCTGGATCAGA |
| MnEIL2 R | ACGGTATGGGCAATTCATTT |
| MnEIL3 F  MnEIL3 R | AACGGGACATCTGGGATAAC  ATCAGTGCCATCAACGTCAT |
| MaACS1 F | GCAACACTGACCTCATCCAC |
| MaACS1 R | TGCGAGGATACTAATCCGAA |
| MaACS3 F | TGGCTTCCAAATCACTGAAG |
| MaACS3 R | GGTTGTGTTCGTTCGATGTC |
| MaACTIN3 F | GCATGAAGATCAAGGTGGTG |
| MaACTIN3 R | CATCTGCTGGAAGGTGCTAA |
| AtACS2 F  AtACS2 R | ACCTCTTCTCCGAGCATGAA  GCCGTCAAAAACAACCCTAA |
| AtACS3 F  AtACS3 R | ATGTCTCAGGGTGCATGTGA  GGCGAGACCCATTTGAATAA |
| AtACS4 F  AtACS4 R | AATGTCAAGTTTCGGCCTTG  GATGGCCTCTAGACCCAACA |
| AtACS6 F  AtACS6 R | GACGAGTTTATCCGCGAGAG  ACACGCCATAGTTCGGTTTC |
| AtACS7 F  AtACS7 R | GATGGAGAACCGGAGTGAAA  GGTTCGATGGGTTGGTTATG |
| AtACS8 F  AtACS8 R | GAGAACCGGAGCTGAGATTG  GTAGTGCCCAACGGGTTAGA |
| AtACS10 F  AtACS10 R | GGCGAACAGGAGTTGACATT’  TGGGATTTGAAGGATTCGAG |
| AtACS12 F  AtACS12 R | AGAACGAAGCTCCCACAAGA  GTTTCGATATCCGGTGCTGT |
| AtACO1 F  AtACO1 R | GAATGCCTTTTCTGGTCCAA  CTTGGATGGCGGTATAGGAA |
| AtACO2 F  AtACO2 R | TGGTGACCAACTTGAGGTGA  CGGAATCTTTCTCGACAAGC |
| AtACO4 F  AtACO4 R | ATAATCCGGGAAGCGACTCT  CATTGTTGGCCACAGTTGTC |
| β-actin2 F  β-actin2 R | TGCTGAGCTTATCGATTCCG  TTCGGTGATGGGAATACAG |
| Inverse-PCR | Reverse F1 | TATGGAGAAACTCGAGCTTGTC |
| Reverse R1 | GATCCCCCGAATTAATTCGGCG |
| Reverse F2 | AGATCCGGTCGGCATCTACTCT |
| Reverse R2 | AGCGTCAATTTGTTTACACCAC |