**Supplementary Table 1**. List of primers used in this study.

*Primers used for amplification of the AtFAD7 promoter fragments*

FAD7p 1682bp\_F CACCCTCTCAGATCTCTCTCCATCGTT

FAD7p 1682bp\_R TAGAACTTGAGCTCTCTCCCCAGA

FAD7p 994bp distal\_F GCCTGAAATAAATTAGCCCAAGAG

FAD7p 703bp\_F CACCGGGCTAATTTATTTCAGGCTGA

FAD7p 499bp\_F CACCGTTTCTTCACCAAACTCCTCTTG

*Primers used for site-directed mutagenesis of AtFAD7 putative target sites*

MYB7.1 mut\_F

CGTTCTCTGATTCCGCATGAATTTCTTTGGGGGGGGGGAGAAGAAAATCACAAATAAGAGGC

MYB7.1 mut\_R

GCCTCTTATTTGTGATTTTCTTCTCCCCCCCCCCAAAGAAATTCATGCGGAATCAGAGAACG

MYB7.2 mut\_F

GGTCCTTAATCGCGCTGGTAAATTAAAGATTGGGGGGTGATTATCCTTTTTTTTTTTCTTTTCTACAGTCTTT

MYB7.2 mut\_R

AAAGACTGTAGAAAAGAAAAAAAAAAAGGATAATCACCCCCCAATCTTTAATTTACCAGCGCGATTAAGGACC

ABA7.1 mut\_F

GATTTTTTTTTGTGACGGTCAATTTAGACAGGGGGGGAGGTTTCAACACGGGTTTGATTGATCTCG

ABA7.1 mut R

CGAGATCAATCAAACCCGTGTTGAAACCTCCCCCCCTGTCTAAATTGACCGTCACAAAAAAAAATC

ABA7.2 mut\_F

GTTCGCACGCTTATGTCTTATATAAGTTAGCTAGGGGGGGAAAGGAGAAGGAAATTTATTAGTGATGGTGTG

ABA7.2 mut R

CACACCATCACTAATAAATTTCCTTCTCCTTTCCCCCCCTAGCTAACTTATATAAGACATAAGCGTGCGAAC

WRKY 7.1 mut\_F

CAATAGGGACAAACCAAATCTCATGCTACTGGGGGGGTTACATGGACGGTGAACATAAAAATTGAA

WRKY 7.1 mut\_R

TTCAATTTTTATGTTCACCGTCCATGTAACCCCCCCAGTAGCATGAGATTTGGTTTGTCCCTATTG

WRKY 7.2 mut\_F

AGTTTGGTGAAGAAACCTATTTGAGAATTTGGGGGGGTTACGTTTCAATGTTTCACACCCTATACCTA

WRKY 7.2 mut\_R

TAGGTATAGGGTGTGAAACATTGAAACGTAACCCCCCCAAATTCTCAAATAGGTTTCTTCACCAAACT

WRKY 7.3 mut\_F

GATGTGAGATTTTTTTTTGTGACGGGGGGTTTAGACACAAGTTGAGGTTTCAACACGGG

WRKY 7.3 mut\_R

CCCGTGTTGAAACCTCAACTTGTGTCTAAACCCCCCGTCACAAAAAAAAATCTCACATC

*Primers used for amplification of the AtFAD8 promoter fragments*

FAD8p 2958kb\_F CACCACATTGGTGTGCCGTCAGTA

FAD8p 2958kb\_R TGGAGCCTCTTCCCAAGAA

FAD8p 1061bp distal\_F CACCACATTGGTGTGCCGTCAGTA

FAD8p 1912bp\_F CACCCTGGTGAGATTTCTTAGAAGAGAGC

FAD8p 643bp\_F CACCCTTGCTAAGCAAATGGAGAAGC

FAD8p 290bp\_F CACCCCTAAATCCCGCTTTATTCCTTC

*Primers used for site-directed mutagenesis of AtFAD8 putative target sites*

MYB8.1 mut\_F

CTCCAACAGGCTCAAAAAGTGATCCCCCCCATCACAACTCCATAAATTCTGAAGA

MYB8.1 mut\_R

TCTTCAGAATTTATGGAGTTGTGATGGGGGGGATCACTTTTTGAGCCTGTTGGAG

MYB8.2 mut \_F

TGCCTGAGACCTCTAAAGAACCCCCCCCCGATTTGTATGCACATTATAGGT

MYB8.2 mut\_R

ACCTATAATGTGCATACAAATCGGGGGGGGGTTCTTTAGAGGTCTCAGGCA

*Monitorization of hormone effect*

ABI1\_F ATGGAGGAAGTATCTCCGGCGATC

ABI1\_R TCAGTTCAAGGGTTTGCTCTTG

LOX2\_F ATGTATTGTAGAGAGTCCTTGTCGA

LOX2\_R TCAAATAGAAATACTATAAGGAACACCC

|  |  |
| --- | --- |
| *qPCR*  |  |
| qEF1α\_F | TGAGCACGCTCTTCTTGCTTTCA |
| qEF1α\_R | GGTGGTGGCATCCATCTTGTTACA |
| qFAD7\_F | CTCTCCAACAACAACAAATTCAGAC |
| qFAD7\_R | CCAAAAGACAGAGGAGATGATGAT |
| qFAD8\_F | GCCTCTAACCCTAAACCCA |
| qFAD8\_R | CGGGAATTGAGAAGAGAAGAA |