**Table S1**

**Primers sequences and amplification conditions**

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| **Forward and reverse primers (5′–3′)** |
| **Genes** | **Primers used for real-time RT-PCR** |
| *ThCOL1* | GACGTACAAACGGTGGAT | ATACCCTGACGATTGGAAT |
| *ThCOL2* | GGCGATGAATGTTTCAGT | GCATAGCATACTGCTGTT |
| *ThCOL3* | GACATCAACTGCTTTGTTCC | ATAGCTTCCATGCTTCCT |
| *ThCOL4* | GGTGAGAATGCTGTTGCT | GCAGCCCACAAGACAAAT |
| *ThCOL5* | ATGTTGATGTGGATACCTGGCT | CGTAACACGAGAACTTGCAGCT |
| *ThCOL6* | TGGCAGTGATTAAGCAGCTT | ACCAACTGTACGCCCATT |
| *ThCOL7* | CGGATGGAGTCCGTACCACAAT | AGGCTGTGTGGCATTAGATAGT |
| *ThCOL8* | GTGGCGATGTGGATGACT | GGCTAATTGATGCGTTGT |
| *Actin* | AAACAATGGCTGATGCTG | ACAATACCGTGCTCAATAGG |
| *α-tubulin* | CACCCACCGTTGTTCCAG | ACCGTCGTCATCTTCACC |
| *β-tubulin* | GGAAGCCATAGAAAGACC | CAACAAATGTGGGATGCT |
| **Constructs** | **Primers used in constructing plant plasmids** |
| pROKII-*ThCOL2* | CGCGGATCCATGACAATCGAGTCTCCTTCAC | CGAGCTCTTACTTCTGACACGTGATGACT |
| pROKII | AGACGTTCCAACCACGTCTT | CCAGTGAATTCCCGATCTAG |
| pFGC5941-*ThCOL2* | *ThCOL2*-Sense |
| CATGCCATGGCTTCTTGGCCCCGAAAGGCGAT | TTGGCGCGCCCCTCCATAACTCTTATGTGG |
| *ThCOL2*-Anti |
| GCTCTAGACTTCTTGGCCCCGAAAGGCGAT | CGCGGATCCCCTCCATAACTCTTATGTGG |
| Sense | ATAAGGAAGTTCATTTCATTTG | CAATCAAATGAAGAGCCAAT |
| Anti | CTTACTTACACTTGCCTTGGAG | ATCTGAGCTACACATGCTCAG |
|  | **Primers used in subcellular localization analysis** |
| pBI121-*ThCOL2*-GFP | GCTCTAGAATGACAATCGAGTCTCCTTC | GGACTAGTCTTCTGACACGTGATGACT |
| pBI121-GFP | TTTCATTTGGAGAGAACACG | CGACCAGGATGGGCACCAC |
|  | **Primers used in yeast experiment analysis** |
| pGBKT7-*ThCOL2*-FL | CCGGAATTCATGACAATCGAGTCTCCTTC | CGCGGATCCTTACTTCTGACACGTGATGACT |
| pGBKT7-*ThCOL2*-dC1 | CCGGAATTCATGACAATCGAGTCTCCTTC | CGCGGATCCGATGGGAACCCGGTGGT |
| pGBKT7-*ThCOL2*-dC2 | CCGGAATTCCACCCCATCGTCGGCGGCAT | CGCGGATCCATCCACTGGAGCGAGCT |
| pGBKT7-*ThCOL2*-dC3 | CCGGAATTCAGGGAGGCTAGAGTTCT | CGCGGATCCTTACTTCTGACACGTGATGACT |
| pGBKT7-*ThCOL2*-dC4 | CCGGAATTCATGACAATCGAGTCTCCTTC | CGCGGATCCATCCACTGGAGCGAGCT |
| pGBKT7-*ThCOL2*-dC5 | CCGGAATTCCACCCCATCGTCGGCGGCAT | CGCGGATCCTTACTTCTGACACGTGATGACT |
| pGBKT7 | TCATCGGAAGAGAGTAGT | AGAGTCACTTTAAAATTTGTAT |
|  | **Primers used in ABA biosynthesis analysis** |
| ThNCED3 | ATTTCTTCGACGGCGATGGC | GTGATCAAGCAGGCCAAACAG |
| ThAAO3 | ATGTATCTTGATCGCAAGACTG | AAGATAATGCACCCCAATC |
| ThZEP | AGGTGATCTTCTTGTTGGAG | CAACGCCACCAGCAGGTTCCTT |
| ThNCED1 | AGATGAAATGGGTGGAGGT | GATCATCTTGGCTGAGAAT |
| pdbNCED4 | CTGCATCTATATCCGCAGT | GTTAGCTAGTCCGATGCCAT |