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| **Supplementary Table 1.** Nomenclature of *ACO*s and primer sequences used in RT-PCR |
| **AGI** | **Name** | **Primer Sequence** |
| At2g19590  | *ACO1* | For: 5′-AGAGAGATGGAGATTCCAGTTATTG-3′ |
| Rev: 5$'$-GAGTGAAGTAGTATAGCTGAATCAG-3′ |
| At1g62380 | *ACO2* | For: 5′-GATGAATACAGGACGGCCATGAAAGAC-3′ |
| Rev: 5$'$-CATCTTCCATAAACATAAACACCCCACAC-3′ |
| At1g03400 | *ACO3* | For: 5′-GCAATGGAGTCAACTGATCGTTCAAGTC-3′ |
| Rev: 5$'$-GGTGTAACTTAGGAGCATCGAGCG-3′ |
| At1g05010 | *ACO4/EFE* | For: 5′-CTCGACGACGATTACAGAACGTTAATG-3′ |
| Rev: 5$'$-GAACTCTACGAACAGAAAACATTAATTCCC-3′ |
| At1g12010 | *ACO5* | For: 5′-GACTTGTCTAAGCTCAATGGTGAAGAGAG-3′ |
| Rev: 5$'$-CAACCACAGCCACCGGATTCAAATC-3′ |
| At1g77330 | *ACO6* | n.a. |
| n.a. |
| At2g25450 | *ACO7* | For: 5′-CTATGGCGGAAAACTACGACCGTG-3′ |
| Rev: 5$'$-CTAGCCACATAGTGATTGGAGGATTCC-3′ |
| At2g30830 | *ACO8* | n.a. |
| n.a. |
| At2g30840 | *ACO9* | For: 5′-ATGGAAGCAACATACGATCGTGCTAGTG-3′ |
| Rev: 5$'$-CGGAACAATCAAGTGAAACTGTAGAAGACC-3′ |
| At3g47190 | *ACO10* | For: 5′-CTTTCCGAGTGGTGATGGAGGAATATG-3′ |
| Rev: 5$'$-CCTTGCAAATACAAAAGTTTTGCCATGC-3′ |
| At3g61400 | *ACO11* | For: 5′-ATGGATTCAACAGCCACCGTTGCAAG-3′ |
| Rev: 5$'$-GATCTCTAAACGGAGTAACGCAGAGG-3′ |
| At5g43440 | *ACO12* | For: 5′-CTGCAGAACTCGTTCGTTTGAACGAAC-3′ |
| Rev: 5$'$-GCGATTTTCCATCGAAGATGCTTGCTAG-3′ |
| At5g43450 | *ACO13* | For: 5′-CTCGACGAAGACAGGAGTGAAAGGAC-3′ |
| Rev: 5$'$-CAATGGTTGAGGAACTCTATAGCGGGT-3′ |
| n.a., Not analyzed. |

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| **Supplementary Table 2.** Primer sequences used for vector constructs and EMSA |
| **Primer name** | **Primer Sequence** |
| *ProACO1:GUS 1843* For | 5´-**AAGCTT**CTCTTTCCGGTGGTTGGAGAAC-3´  |
|
| *ProACO1:GUS 1154* For | 5´-**AAGCTT**CAATAACATTACCATTTCTTCCTC-3´  |
|
| *ProACO1:GUS 769* For | 5´-**AAGCTT**GTGTAGTACTCCGGTAATCTC-3´  |
|
| *ProACO1:GUS 536* For | 5´-**AAGCTT**AGATGGGTAGTTTAGTGAAGTT-3´  |
|
| *ProACO1:GUS 184* For | 5´-**AAGCTT**CAAATTCAATGAGTTAACAGAATA-3´  |
|
| *ProACO1:GUS 1* Rev  | 5´-**GGATCC**TCTTTTTTATTTACTTTTTCTCACACAC-3´  |
|
| *ProACO1:GUS -312* Rev | 5´-**GGATCC**ATAATTTCTTAATGGTTTTGGGTCACT-3´  |
|
|
| Probe A | For: 5′-GTAACATATTACAACACCAAATGACCAAAA-3′ |
| Rev: 5$'$-CTTTTGTTTTGGTCATTTGGTGTTGTAATA-3′ |
| Probe B | For: 5′-TTCTATTGCAAATGGTGTGTAGTACTCCGG-3′ |
| Rev: 5$'$-AGTACTACACACCATTTGCAATAGAAAAAG-3′ |
| Probe C | For: 5′-GGGTCATATTATCATTTGATGAGTGTTATA-3′ |
| Rev: 5$'$-GCTCTATAACACTCATCAAATGATAATATG-3′ |
| Probe D | For: 5′-GAAAAATTCAAAAACTTGTGATCACATGG-3′ |
| Rev: 5$'$-GTCCATACAACCATGTGATCACAAGTTTTTGAATT-3′ |
| Probe mA | For: 5′-GTAACATATTACAACACTCTGAAACCAAAA-3′ |
| Rev: 5$'$-CTTTTGTTTTGGTTTCAGAGTGTTGTAATA-3′ |
| Probe mB | For: 5′-TTCTATTGTCTGAAGTGTGTAGTACTCCGG-3′ |
| Rev: 5$'$-AGTACTACACACTTCAGACAATAGAAAAAG-3′ |
| Probe mD | For: 5′-GAAAAATTCAAAAACTTGTGATTCTGAAGTTG-3′ |
| Rev: 5$'$-GTCCATACAACTTCAGAATCACAAGTTTTTGAATT-3′ |