

Supplementary materials

Table S1. List of primers used in this study

Primer Name	Primer Sequence (5'-3')
<i>NRT1.8-F</i>	TCTTCATCTTCGCATACAGGCGGT
<i>NRT1.8-R</i>	GCCATTATCGCAATCACAAGCCCA
<i>ORA59-F</i>	AAGGGATAAGAGTGTGGCTTGGGA
<i>ORA59-R</i>	CTTTCAAAGCGAAAGCCGCCTGAT
<i>ERF1B-F</i>	GAGGAAACACTCGATGAGACG
<i>ERF1B-R</i>	GGAGCGGTGATCAAAGTCAC
<i>ERF104-F</i>	GAACCATCACCAACCAATCC
<i>ERF104-R</i>	GTCCCAAGCCAGATCCTACA
<i>ACS2-F</i>	GACATCGCTAATTTCCAAGACTACCA
<i>ACS2-R</i>	TCCTCCGCTCATAACCACCCTCT
<i>ACS4-F</i>	CTTTCTTGCTTCCCACGCCATAT
<i>ACS4-R</i>	TCTTGGCTTGCTCGTAGGCTTCT
<i>ACS5-F</i>	GCTATGGCTGAGTTTATGGAAGA
<i>ACS5-R</i>	ATCCAGGATAGTAAGGAGTAGGC
<i>ACS6-F</i>	CGAGTTTCGGTCTTGTTTCGTCA
<i>ACS6-R</i>	GTGGTTATCTCAGCGTGCCTTGC
<i>ACS7-F</i>	GCTTCACGCTTGTCTCGTCTCAG
<i>ACS7-R</i>	TCCCTTTCAAACACTCAATCCCT
<i>ACS8-F</i>	GGGTGATTACTCCAACGATGAT
<i>ACS8-R</i>	CTGATAACAATGCGGACAAGAGG
<i>ACS11-F</i>	GCAGGTTTGTTCTGTTGGGTGA
<i>ACS11-R</i>	CATCGTTTGGTCCGACATATTCG
<i>ACO1-F</i>	AGGAACTCAGCAAGACGATG
<i>ACO1-R</i>	AAGAACTCAAGACCAGGCAC
<i>ACO2-F</i>	CGGGAAGTATAAGAGTGTGCTG

<i>ACO2-R</i>	GGGTACTCGGAATCTTTCTCG
<i>ACO3-F</i>	GATGGTGATTGGGTTGATGTTT
<i>ACO3-R</i>	AGTCCGGCATAGAGTTTCATG
<i>ACO4-F</i>	TTTCTACCTCAAGCACCTTCC
<i>ACO4-R</i>	AACTTCTCTATCTTTCCGGCG
<i>ACO5-F</i>	GGAGGTGTCGTTTTGCTTTTC
<i>ACO5-R</i>	ACTCTTGTAACCTCCGTTGC
<i>ACTIN2-F</i>	CAAGGCCGAGTATGATGAGG
<i>ACTIN2-R</i>	GAAACGCAGACGTAAGTAAAAAC

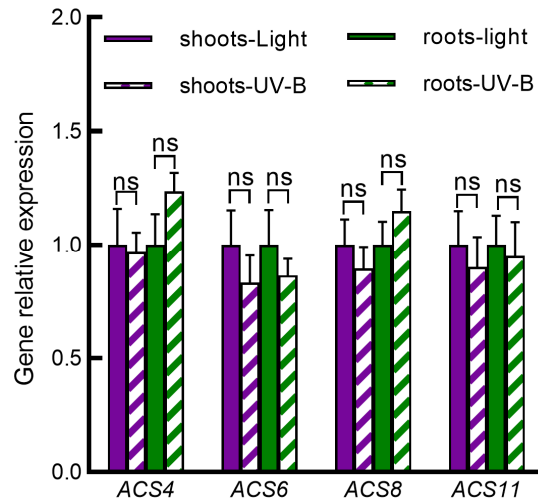


Figure S1. Effect of UV-B on expression of ACS genes in wild-type Col-0 shoots and roots. Expression of ACS genes were determined by qPCR in shoots and roots of 20-day-old wild-type Col-0 plants exposed to light alone (Light) or with 0.5 W/m² UV-B (UV-B) for 3 h. Data are means \pm SE of three biological replicates and presented as values relative to those under light treatment after normalization to those of *ACTIN2*. Bars with “ns” indicate no significant difference from those under light treatments.

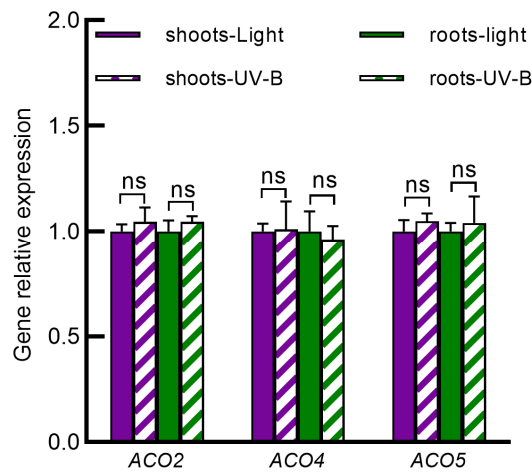


Figure S2. Effect of UV-B on expression of ACO genes in wild-type Col-0 shoots and roots. Expression of ACO genes were determined by qPCR in shoots and roots of 20-day-old wild-type Col-0 plants exposed to light alone (Light) or with 0.5 W/m² UV-B (UV-B) for 3 h. Data are means \pm SE of three biological replicates and presented as values relative to those under light treatment after normalization to those of *ACTIN2*. Bars with “ns” indicate no significant difference from those under light treatments.