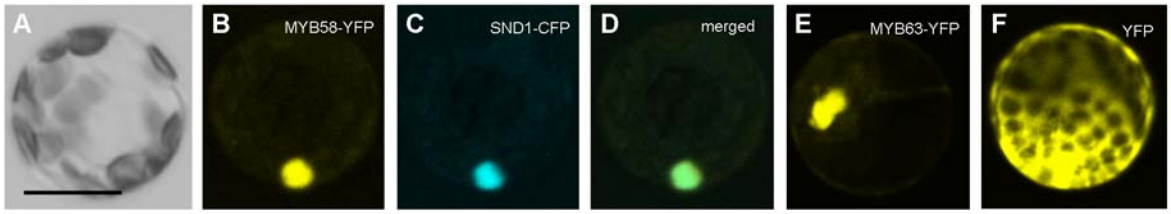
Supplemental Data. Zhou et al. (2008). MYB58 and MYB63 are transcriptional activators of the lignin biosynthetic pathway during secondary cell wall formation in Arabidopsis.



Supplemental Figure 1. Subcellular Localization of MYB58 and MYB63.
(A) to **(D)** An Arabidopsis protoplast expressing MYB58-YFP and SND1-CFP. Differential interference contrast image **(A)**, the MYB58-YFP signal **(B)**, the SND1-cyan fluorescence protein (CFP) signal **(C)**, and their merged signals **(D)** are shown.. Note that MYB58-YFP is co-localized with SND1-CFP in the nucleus.
(E) An Arabidopsis protoplast expressing MYB63-YFP showing the localization of fluorescence signals in the nucleus.
(F) An Arabidopsis protoplast expressing YFP alone showing the presence of fluorescence signals throughout the cytoplasm.

Supplemental Table 1. Primers used in this work

Primer name	Primer sequence	Uses
CHS-Q-PCR	5'-acgtcacgtgttgagcgagtatgg-3' 5'-gaggaacgctgtgcaagacgactg-3'	Real-time quantitative PCR analysis of CHS expression
CHI-Q-PCR	5'-gaaagatgatagtatccctgaaacc-3' 5'-ggctagtttttcctcaacagagtg-3'	Real-time quantitative PCR analysis of CHI expression
ALDH-Q-PCR	5'-cgaaatacggtcttgcagcaggaat-3' 5'-attgtgaagaggcataacgacgga-3'	Real-time quantitative PCR analysis of ALDH expression
SMT-Q-PCR	5'-ccccattcataactggaggccatg-3' 5'-ataattataggtgaaggtcataagcc-3'	Real-time quantitative PCR analysis of SMT expression
4CL1-P-mAC	5'-aacattttcgaaggaaccaccgtctact ccggtgaattgt-3' 5'-agacggtggttccttcgaaaatgttagt gttgttgtttca-3'	Generation of the 4CL1 promoter with the mutated AC element
MYB58-gene	5'-atcaaacaatgcgtgcatgcattc-3' 5'-actgataacagagtagacacagtg-3'	Generation of MYB58:GUS
MYB63-gene	5'-tttgtggacatccgagttttacac-3' 5'-cagccaaagcagactgagactgaa-3'	Generation of MYB63:GUS
MYB58-cDNA	5'-atgggcaaaggaagagcaccatgt-3' 5'-atgtatgaggagctcgtaactctc-3'	Amplification of the full-length MYB58 cDNA for subsequent generation of MYB58-YFP, MYB58-GAL4, MYB58-OE, MYB58-RNAi, MYB58-MBP, and MYB58-HER
MYB63-cDNA	5'-atggggaagggaagagcacct-3' 5'-atgtatcatgagctcgtagttctt-3'	Amplification of the full-length MYB63 cDNA for subsequent generation of MYB63-YFP, MYB63-GAL4, MYB63-OE, MYB63-RNAi, MYB63-MBP, and MYB63-HER
MYB58-Q-PCR	5'-ccagagaacagagctcttcaagag-3' 5'-atgtatgaggagctcgtaactctc-3'	Real-time quantitative PCR analysis of MYB58 expression
MYB63-Q-PCR	5'-gaacagctcaggctcaagagcaac-3' 5'-atgtatcatgagctcgtagttctt-3'	Real-time quantitative PCR analysis of MYB63 expression
MYB58-DR	5'-atgggcaaaggaagagcaccatgt-3' 5'-ttaagcgaaacccaaacggagttctag atccagatccagatgtatgaggagctcgta actctc-3'	Generation of MYB58-DR
MYB63-DR	5'-atggggaagggaagagcacct-3' 5'-ttaagcgaaacccaaacggagttctag atccagatccagatgtatcatgagctcgta gttctt-3'	Generation of MYB63-DR