

Figure S1 Phylogenetic relationships of the MYB60, MYB16 and MYB106 homologs from Arabidopsis, rice, and bread wheat. The phylogenetic tree was constructed using the maximum-likelihood method with 1000 bootstraps. Two letter genus-species prefixes: *At*, *Arabidopsis thaliana*; *Os*, *Oryza sativa*; *Ta*, *Triticum aestivum*.

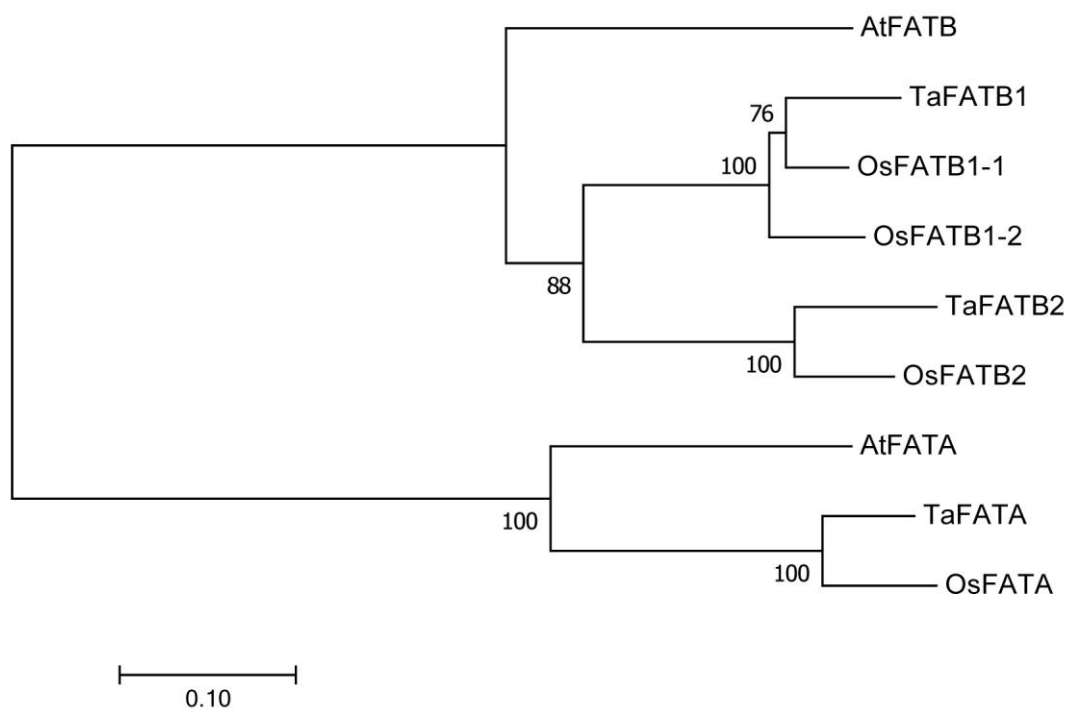


Figure S2 Phylogenetic relationships of the FATA and FATB homologs from Arabidopsis, rice, and bread wheat. The phylogenetic tree was constructed using the maximum-likelihood method with 1000 bootstraps. Two letter genus-species prefixes: *At*, *Arabidopsis thaliana*; *Os*, *Oryza sativa*; *Ta*, *Triticum aestivum*.

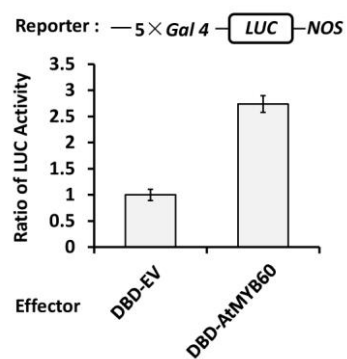


Figure S3 Transcriptional activation ability of Arabidopsis transcription factor AtMYB60 measured in Arabidopsis protoplast cells.

Supplemental Table S1. Primers used in this study

Primer Name	Sequence	Annotation
qRT-PCR- <i>TaMYB60-1</i> -F	5' CCCTCCAGCTCCGCCGAG3'	qRT-PCR primer for <i>TaMYB60-1</i> , F primer
qRT-PCR- <i>TaMYB60-1</i> -R	5' GCGCATGGTGATCGTCGT3'	qRT-PCR primer for <i>TaMYB60-1</i> , R primer
qRT-PCR- <i>TaMYB60-2</i> -F	5' GGCGGTCTGTGCCGGTGA3'	qRT-PCR primer for <i>TaMYB60-2</i> , F primer
qRT-PCR- <i>TaMYB60-2</i> -R	5' GTGGTTGTGGTGGTCGAA3'	qRT-PCR primer for <i>TaMYB60-2</i> , R primer
qRT-PCR- <i>TaFATB1</i> -F	5' CTCGGGGTTCTTCCCCAC3'	qRT-PCR primer for <i>TaFATB1</i> , F primer
qRT-PCR- <i>TaFATB1</i> -R	5' TTGAGGTAAACCTTAGAG3'	qRT-PCR primer for <i>TaFATB1</i> , R primer
qRT-PCR- <i>TaFATB2</i> -F	5' CCGCCCAAGAGCGCCCTG3'	qRT-PCR primer for <i>TaFATB2</i> , F primer
qRT-PCR- <i>TaFATB2</i> -R	5' TAGAACGTCTCGGCTGC3'	qRT-PCR primer for <i>TaFATB2</i> , R primer
qRT-PCR- <i>TaCER1</i> -F	5' CGGGGCCTTTGACTGAATG3'	qRT-PCR primer for <i>TaCER1</i> , F primer
qRT-PCR- <i>TaCER1</i> -R	5' GAAGACGATCTGGTCGTC3'	qRT-PCR primer for <i>TaCER1</i> , R primer
pCa- <i>TaMYB60-1as</i> -F	5'AAGGAAGTTTAAAGTGGCAGCTGATGATGG A3'	For construct of BSMV- <i>TaMYB60-1as</i> , F primer
pCa- <i>TaMYB60-1as</i> -R	5'AACCACCACCACCGTCGCCACCGACGTCAA ACC3'	For construct of BSMV- <i>TaMYB60-1as</i> , R primer
pCa- <i>TaMYB60-2as</i> -F	5'AAGGAAGTTTAAATGGCGCCTGATGCTGCT G3'	For construct of BSMV- <i>TaMYB60-2as</i> , F primer
pCa- <i>TaMYB60-2as</i> -R	5'AACCACCACCACCGTTCAACTACGACGCCG ACGA3'	For construct of BSMV- <i>TaMYB60-2as</i> , R primer
pCa- <i>TaFATB1as</i> -F	5'AAGGAAGTTTAAACGAGGTTTCCTTCGCCAT 3'	For construct of BSMV- <i>TaFATB1as</i> , F primer
pCa- <i>TaFATB1as</i> -R	5'AACCACCACCACCGTAGTGCCCCGATTTC ATA'	For construct of BSMV- <i>TaFATB1as</i> , R primer
pCa- <i>TaFATB2as</i> -F	5'AAGGAAGTTTAAACGCCGTTTCTGGGACT 3'	For construct of BSMV- <i>TaFATB2as</i> , F primer
pCa- <i>TaFATB2as</i> -R	5'AACCACCACCACCGTGAAGTGGCGAGCATA GTC'	For construct of BSMV- <i>TaFATB2as</i> , R primer
pENTRY- <i>proTaFATB1-4A</i> -F	5'GGGGACAAGTTTGTACAAAAAAGCAGGCT TCAAATTTAAATGGTCAAGAG3'	For the construction of pENTRY- <i>proTaFATB1-4A</i> , F primer
pENTRY- <i>proTaFATB1-4A</i> -R	5'GGGGACCACTTTGTACAAGAAAGCTGGGT CGACACAGCCGTACTACAGC3'	For the construction of pENTRY- <i>proTaFATB1-4A</i> , R primer
pENTRY- <i>proTaFATB1-7A</i> -F	5'GGGGACAAGTTTGTACAAAAAAGCAGGCT TCCTCCTTCTCCTCCCTGC3'	For the construction of pENTRY- <i>proTaFATB1-7A</i> , F primer
pENTRY- <i>proTaFATB1-7A</i> -R	5'GGGGACCACTTTGTACAAGAAAGCTGGGT CGACACAGCCGTACTACAGC3'	For the construction of pENTRY- <i>proTaFATB1-7A</i> , R primer
pENTRY- <i>proTaFATB1-7D</i> -F	5'GGGGACAAGTTTGTACAAAAAAGCAGGCT TCGTGCAGATAGAGCAGAGAA3'	For the construction of pENTRY- <i>proTaFATB1-7D</i> , F primer
pENTRY- <i>proTaFATB1-7D</i> -R	5'GGGGACCACTTTGTACAAGAAAGCTGGGT CAACAGAGCCCTACTACAGC3'	For the construction of pENTRY- <i>proTaFATB1-7D</i> , R primer
pENTRY- <i>proTaFATB2-7A</i> -F	5'GGGGACAAGTTTGTACAAAAAAGCAGGCT TCCCTAATCCAGGACTCCCTC3'	For the construction of pENTRY- <i>proTaFATB2-7A</i> , F primer
pENTRY- <i>proTaFATB2-7A</i> -R	5'GGGGACCACTTTGTACAAGAAAGCTGGGT	For the construction of pENTRY- <i>proTaFATB2-7A</i> , R

	CGGGAAGCACGGCTAGAAAG3'	primer
pENTRY- <i>proTaFATB2-7B-F</i>	5'GGGGACAAGTTTGTACAAAAAAGCAGGCT TCAGCCACACCAAGTGGTGTGC3'	For the construction of pENTRY- <i>proTaFATB2-7B</i> , F primer
pENTRY- <i>proTaFATB2-7B-R</i>	5'GGGGACCACTTTGTACAAGAAAGCTGGGT CGGGAAGCACGGCTAGAAAC3'	For the construction of pENTRY- <i>proTaFATB2-7B</i> , R primer
pENTRY- <i>proTaFATB2-7D-F</i>	5'GGGGACAAGTTTGTACAAAAAAGCAGGCT TCTATTGTTCTGGGTGTTTCG3'	For the construction of pENTRY- <i>proTaFATB2-7D</i> , F primer
pENTRY- <i>proTaFATB2-7D-R</i>	5'GGGGACCACTTTGTACAAGAAAGCTGGGT CGGAAGCACGGCTAGAAAGC3'	For the construction of pENTRY- <i>proTaFATB2-7D</i> , R primer
pENTRY- <i>proTaCER1-6A-F</i>	5'GGGGACAAGTTTGTACAAAAAAGCAGGCT TCGTTTTTGCCACTCTAGCTT3 '	For the construction of pENTRY- <i>proTaCER1-6A</i> , F primer
pENTRY- <i>proTaCER1-6A-R</i>	5'GGGGACCACTTTGTACAAGAAAGCTGGGT CGGCTGGCTGGCTATGGTCGC3'	For the construction of pENTRY- <i>proTaCER1-6A</i> , R primer
pENTRY- <i>proTaCER1-6B-F</i>	5'GGGGACAAGTTTGTACAAAAAAGCAGGCT TCAAAAGGGAGACTCATTGTC3'	For the construction of pENTRY- <i>proTaCER1-6B</i> , F primer
pENTRY- <i>proTaCER1-6B-R</i>	5'GGGGACCACTTTGTACAAGAAAGCTGGGT CGACTGCCTGTGGTCGCCTC3'	For the construction of pENTRY- <i>proTaCER1-6B</i> , R primer
pENTRY- <i>proTaCER1-6D-F</i>	5'GGGGACAAGTTTGTACAAAAAAGCAGGCT TCCTAATCCTTTTGCCTTGTTG3'	For the construction of pENTRY- <i>proTaCER1-6D</i> , F primer
pENTRY- <i>proTaCER1-6D-R</i>	5'GGGGACCACTTTGTACAAGAAAGCTGGGT CGGCTGGCTGTGGTCGCCTC3'	For the construction of pENTRY- <i>proTaCER1-6D</i> , R primer
pENTRY- <i>AtMYB60-F</i>	5'GGGGACAAGTTTGTACAAAAAAGCAGGCT TCATGGGTAGGCCTCCATGCT3 '	For the construction of pENTRY- <i>AtMYB60</i> , F primer
pENTRY- <i>AtMYB60-R</i>	5'GGGGACCACTTTGTACAAGAAAGCTGGGT CTTAAAGCATATTAGAGAGC3'	For the construction of pENTRY- <i>AtMYB60</i> , R primer
pENTRY- <i>TaMYB60-1-5A-F</i>	5'GGGGACAAGTTTGTACAAAAAAGCAGGCT TCATGGGGAGGCCGCCGTGCTG3'	For the construction of pENTRY- <i>TaMYB60-1-5A</i> , F primer
pENTRY- <i>TaMYB60-1-5A-R</i>	5'GGGGACCACTTTGTACAAGAAAGCTGGGT CTAGTACAGCAATGGCAGG3'	For the construction of pENTRY- <i>TaMYB60-1-5A</i> , R primer
pENTRY- <i>TaMYB60-1-5B-F</i>	5'GGGGACAAGTTTGTACAAAAAAGCAGGCT TCATGGGGAGGCCGCCGTGCTG3 '	For the construction of pENTRY- <i>TaMYB60-1-5B</i> , F primer
pENTRY- <i>TaMYB60-1-5B-R</i>	5'GGGGACCACTTTGTACAAGAAAGCTGGGT CCTAGTACAGCAATGGCAGG3'	For the construction of pENTRY- <i>TaMYB60-1-5B</i> , R primer
pENTRY- <i>TaMYB60-1-5D-F</i>	5'GGGGACAAGTTTGTACAAAAAAGCAGGCT TCATGGGGAGGCCGCCGTGCTG3'	For the construction of pENTRY- <i>TaMYB60-1-5D</i> , F primer
pENTRY- <i>TaMYB60-1-5D-R</i>	5'GGGGACCACTTTGTACAAGAAAGCTGGGT CCTAGTACAGCAATGGCAGG3'	For the construction of pENTRY- <i>TaMYB60-1-5D</i> , R primer
pENTRY- <i>TaMYB60-2-4A-F</i>	5'GGGGACAAGTTTGTACAAAAAAGCAGGCT TCATGGGGAGGCCGCCGTGCTG3'	For the construction of pENTRY- <i>TaMYB60-2-4A</i> , F primer
pENTRY- <i>TaMYB60-2-4A-R</i>	5'GGGGACCACTTTGTACAAGAAAGCTGGGT CCTAGAACAGCATTGGAACG3'	For the construction of pENTRY- <i>TaMYB60-2-4A</i> , R primer
pENTRY- <i>TaMYB60-2-4B-F</i>	5'GGGGACAAGTTTGTACAAAAAAGCAGGCT TCATGGGGAGGCCGCCGTGCTG3'	For the construction of pENTRY- <i>TaMYB60-2-4B</i> , F primer

pENTRY- <i>TaMYB60-2-4B</i> -R	5'GGGGACCACTTTGTACAAGAAAGCTGGGT CCTAGAACAGCATTGGAACG3'	For the construction of pENTRY- <i>TaMYB60-2-4B</i> , R primer
pENTRY- <i>TaMYB60-2-4D</i> -F	5'GGGGACAAGTTTGTACAAAAAAGCAGGCT TCATGGGGAGGCCGCCGTGCTG3'	For the construction of pENTRY- <i>TaMYB60-2-4D</i> , F primer
pENTRY- <i>TaMYB60-2-4D</i> -R	5'GGGGACCACTTTGTACAAGAAAGCTGGGT CCTAGAACAGCATTGGAACG3'	For the construction of pENTRY- <i>TaMYB60-2-4D</i> , R primer