

Supplementary File 2. Synthetic oligonucleotide used in this study. Start codons and stop codons are in bold. Restriction sites on primers are underlined. A brief description of what each primer was used for is provided.

Primer name	Primer sequence (5'-3')	Brief description
Isolation of <i>GmMKS2</i> promoter region		
Promoter- <i>GmMKS2</i> -F	CTTGATGTTGGCGAATGC	Forward primer located in the 5'UTR of <i>GmMKS2</i> gene
Promoter- <i>GmMKS2</i> -R	CAACGGCGAAACTGATCG	Reverse primer located in the first exon of <i>GmMKS2</i> gene
Detection of <i>GmMKS2</i> alternative splicing variants (<i>GmMKS2</i>-X1 and <i>GmMKS2</i>-X3)		
<i>GmMKS2</i> -Met-F	<u>CCATGGATG</u> AGCTACAACCACA CTTC	Forward primer located in the first exon of <i>GmMKS2</i> gene
<i>GmMKS2</i> -45nt-R	CTGGTTGCATGTTCTTATTATG	Reverse primer located in the last 45 nucleotides of intron 3.
Isolation of <i>GmMKS2</i> transcripts		
<i>GmMKS2</i> -5'UTR- F	AGGCAAAGGTCGTTGAG	Forward primer for amplifying full-length <i>GmMKS2</i> -X1, <i>GmMKS2</i> -X2, and <i>GmMKS2</i> -X3 variants as well as <i>GmMKS2</i> genomic sequence
<i>GmMKS2</i> -3'- UTR-R	GTTACCTCCTTCCTCACTCAC	Reverse primer for amplifying full-length <i>GmMKS2</i> -X1, <i>GmMKS2</i> -X2, and <i>GmMKS2</i> -X3 variants as well as <i>GmMKS2</i> genomic sequence
Real-time PCR analysis		
<i>GmMKS2</i> -X1-qF	GTATTAATTGCGATGCTGTG	Forward primer for <i>GmMKS2</i> -X1 qPCR

GmMKS2-X1-qR	CAAATTTGTCTCCACTTCTTAG	Reverse primer for <i>GmMKS2-X1</i> qPCR
GmMKS2-X2-qF	ATTGGTATTAATTGCGATGCTG	Forward primer for <i>GmMKS2-X2</i> qPCR
GmMKS2-X2-qR	GAGAACAAATATTGGAACAG AATC	Reverse primer for <i>GmMKS2-X2</i> qPCR
GmMKS2-X3-qF	TAGTTATTGCCAGCACGGTCG	Forward primer for <i>GmMKS2-X3</i> qPCR
GmMKS2-X3-qR	GACAAGCAAAATTGGAGAGGC	Reverse primer for <i>GmMKS2-X3</i> qPCR
cons6-qF	CTTTTACATTTATACCCGGCAGA TTG	Forward primer for <i>cons6</i> qPCR
cons6-qR	CCCATCCAGAATCAAAATCAGA AT	Reverse primer for <i>cons6</i> qPCR
Recombinant protein expression		
<i>Nde</i> I-GmMKS2-X1/X2/X3-sf-F	<u>CATATG</u> AGTGGATTCCATGAC	Forward primer for amplifying the region encoding the mature GmMKS2-X1, GmMKS2-X2, and GmMKS2-X3
<i>Xho</i> I-GmMKS2-X1/X2-sf-R	<u>CTCGAGT</u> TAAGAGTCCTCAATTC	Reverse primer for amplifying the region encoding the mature GmMKS2-X1 and GmMKS2-X2
<i>Xho</i> I-GmMKS2-X3-sf-R	<u>CTCGAGT</u> TAGTGTACTAAAATGT ATAAGGAGGT	Reverse primer for amplifying the region encoding the mature GmMKS2-X3