

**Supplementary Material**

**Overexpression of the alfalfa (*Medicago sativa*) gene, *MsKMS1*, negatively regulates seed germination in transgenic tobacco (*Nicotiana tabacum*)**

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**Table S1** The primers used in this study

Primer	Sequence (5'-3')	Use
MsKMS1	GGCCAAAGGTGGATTGCTTATGCT	RT-PCR
-F		
MsKMS1	TATGCAAACCAGACCCAAGACCGA	RT-PCR
-R		
NCED-F	TCGCCTGTGGTTTACGATAAG	qRT-PCR
NCED-R	TCTACCCACTTCAAACCTTCAC	qRT-PCR
ZEP-F	CATGCCCGGATATCCTACAAA	qRT-PCR
ZEP-R	CGGTATCTTCTGCCTTCGTTAT	qRT-PCR
GA20ox2	GCGTGACAGAGCAATAGTA	qRT-PCR
-F		
GA20ox2	TTGGCTGGTTTCTGGAGATAAG	qRT-PCR
-R		
GA20ox3	ACAGGGCAGTGGTGAATAAG	qRT-PCR
-F		
GA20ox3	AATAAGCTGAGGAGGGCATTC	qRT-PCR
-R		
SOM-F	CGCCTATGTCTCCATCTCTTTC	qRT-PCR
SOM-R	CATGATCTAGCTGACCCATTCC	qRT-PCR
NIC-F	GCTGCTGCTACTCCTGATATAC	qRT-PCR
NIC-R	TAGACTGGCACCATTCTTCTAAC	qRT-PCR
lig6-F	CTCCATAACCGCTAACCTTCTC	qRT-PCR
lig6-R	TGGCGTCGATGAGAAATACC	qRT-PCR
Actin -F	GGGTTTGCTGGAGATGATGCT	Reference gene
Actin -R	GCTTCATCACCAACATATGCAT	Reference gene