Supplementary material

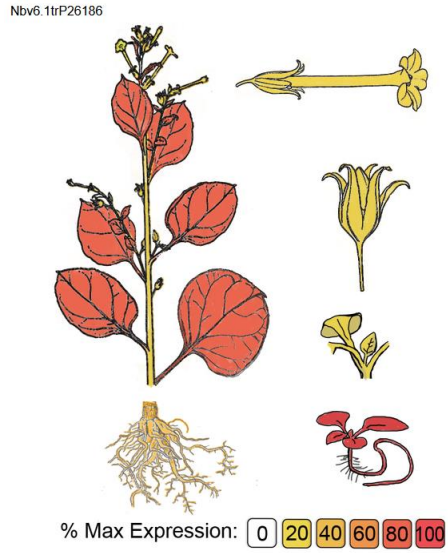

Figure S1. *NbMIG21* pattern of expression according to Version 6 Gene expression Atlas https://sefapps02.qut.edu.au/atlas/tREX6.php).

Pfam ID: UBN_AB etllkrvkklrlkeeeeklkellekLkeaidevmpeqiekYekevaalaeakaakka.....d

MASLQCHKPAQHAPSTLCQKTTTVTCNKANNEHHSFADKMKDMTDKMYHHDSHNHQSACHGTKTQQTAACHGTKTQQSAAC
HGTKTQQSAASHRTKTQQTACHGTSANGTKTQLSVACHGTKTQQSAASHGTKTQQTACHGTSATATHARACGKKKEGSFMH
KMRDQMRSRRNRNKDGSCSDGSDSSSSSSSDESDNENCGRTKNRGSC

Figure S2. Motif search service (https://www.genome.jp/tools/motif/) revealed that NbMIG21p fragment from 15 to 81 positions (red) contains motif corresponding to ubinuclein conserved middle domain (PF14075) (framed).

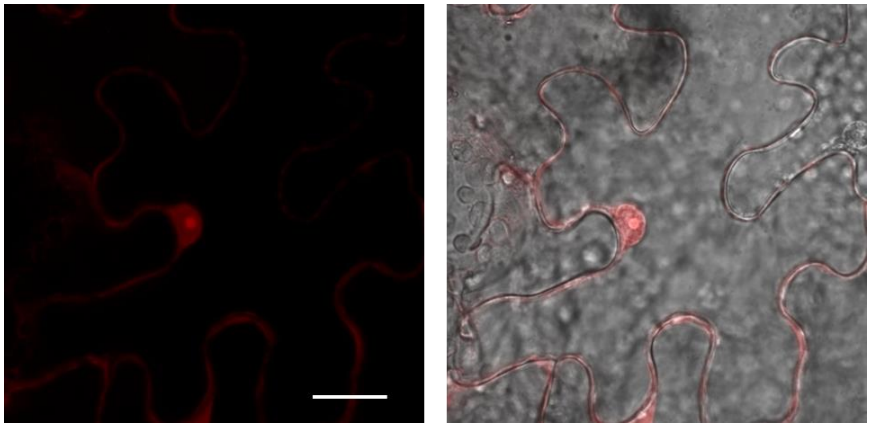

Figure S3. NbMIG21p:RFP intracellular localization. Images of 35S-NbMIG21:RFP expressing epidermal cells of *N. benthamiana* leaves 3 dpi obtained using confocal fluorescence microscopy. Projection of several confocal sections (left) superimposed on a bright field image of the same cell (right). Bar = 20 μm.

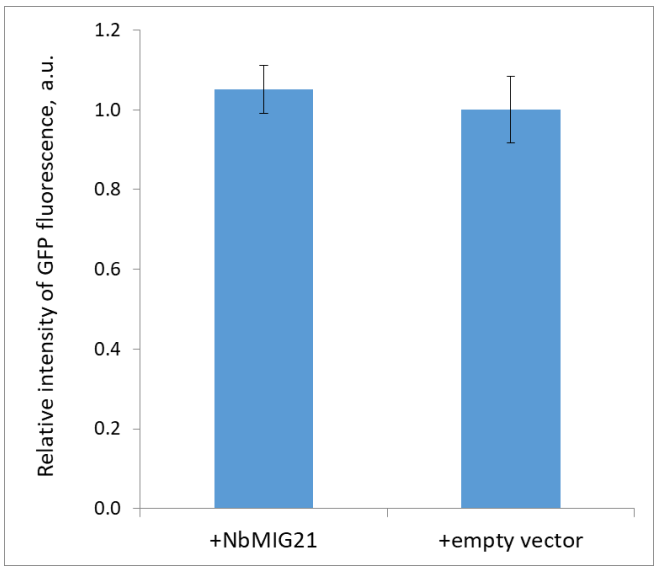

Figure S4. Relative intensity of GFP fluorescence in the analyzed TMV:GFP-expressing foci. Difference between control and NbMIG21-overexpressing leaves is not significant at $p<0.05$ (Student's t-test).

Table S1. PrMIG21 cis-acting elements analysis

Regulatory sequence	Position	Sequence	Function of site
ABRE	-1016	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ARE	-944 -91	AAACCA AAACCA	cis-acting regulatory element essential for the anaerobic induction
Box 4	-235	ATTAAT	part of a conserved DNA module involved in light responsiveness (Kato et al. 1995)
MRE	-704	AACCTAA	MYB binding site involved in light responsiveness
MYB	-767 -641	CAACCA	MYB-binding site (Wei et al. 2020)
MYC	-913 -607	CAATTG	MYC-binding site (Allevato et al. 2017)
Myb	-801	TAACTG	Myb-binding site (Arce-Rodríguez, Martínez, and Ochoa-Alejo 2021)
TCA	-561	TCATCTTCAT	salicylic acids response motif (Goldsbrough, Albrecht, and Stratford 1993)
STRE	-1008	AGGGG	present in the promoters of stress-regulated genes and is recognized by the transcription factors Msn2p/4p (Martínez-Pastor et al. 1996)
G-box	-1016	CACGTT	cis-acting regulatory element involved in light responsiveness

Table S2. Oligonucleotides used for qRT-PCR and cloning

Name	**Sequence**
qRT-NbMIG21_f	GCAAATGGCACCAAAACTC
qRT-NbMIG21_r	GTAGCAGTGGCACTTGTTC
18S rRNA_f	ACGGCTACCACATCCAAG
18S rRNA_r	ACTCATTCCAATTACCAGACTC
PP2A_f	ATTGCTGCCTGTGGTTATTAC
PP2A_r	ATAGACTGAAGTGCTTGATTGG
N-NbMIG21-*Acc65*I_f	**GGTACC**ATGGCATCACTTCAGTGC
N-NbMIG21-*BamH*I_r	**GGATCC**GCAGCTCCCTCTATTC
C-NbMIG21-*BamH*I_f	**GGATCC**CTGGCATCACTTCAGTGC
C-NbMIG21-*Sal*I_r	**GTCGAC**TCAGCTCCCTCTATTCTTG
GFP-*Acc65*I_f	**GGTACC**ATGAGCAAGGGCGAGG
GFP-*BamH*I_r	**GGATCC**TTTCTTGTACAGCTCGTCC
YN- *Acc65*I_f	**GGTACC**ATGGTGGTGAGCAAGGGCG
YN- *BamH*I_r	**GGATCC**CATGATATAGACGTTGTGGC
YC- *Acc65*I_f	**GGTACC**ATGGCCGACAAGCAGAAGAAC
YC- *BamH*I_r	**GGATCC**TTTGGACTTGTACAGCTC
NbCoilin-*Acc65*I_f	**GGTACC**ATGGAGGGCGTTAGGCTTC
NbCoilin-*BamH*I_r	**GGATCC**AATTTTGTTCTGGGATCTTAGG
NbFib2-*Acc65*I_f	**GGTACC**ATGGTTGCACCAACTAGAGG
NbFib2-*BamH*I_r	**GGATCC**GGCAGCAGCCTTCTGCTTC
6H-NbMIG21-Acc65I_f	**GGTACC**GCATCACTTCAGTGCC
PrNtPME-*Hind*III_f	**AAGCTT**GCTAGCAGGAACTAATCAGG
PrNtPME- *Acc65*I_r	**GGTACC**GAGCTCCCGGCGAAGAAATC
PrMIG21-*Hind*III_f	**AAGCTT**GTTACCATGTCTATGTGGAGC
PrMIG21-*Nru*I_r	**TCGCGA**TGAATATGTCTGAAACTGAC
PrAELP-*Hind*III_f	**AAGCTT**AAAAACCTAACAATCC
PrAELP-*Nco*I_r	**CCATGG**CTCTAGTTGTTTTAGAG
PrKPILP-*Hind*III_f	**AAGCTT**AAATGAGAATTTACTTAAG
PrKPILP-*Nco*I_r	**CCATGG**TGTTAAGGATATGGTTAATG
PrThio-*Hind*III_f	**AAGCTT**ACCAGCACCTAAGC
PrThio-*Nco*I_r	**CCATGG**AGTTACTTTGAATGAGTAAAAAAG