

Table S1. Spontaneous nodulation phenotypes.

<i>Lotus</i> line	Construct	Spontaneous nodulation phenotype			Total plant
		Spontaneous nodulation phenotype (%)		Sp nodules / nodulated plant (\pm SE)	
		Bump	SpN		
wt	<i>pEpi::CCaMK^{TT}</i>	0	0	-	32
wt	<i>pEpi::CCaMK^{TD}</i>	0	0	-	47
wt	<i>p35S::CCaMK^{TT}</i>	0	0	-	18
wt	<i>p35S::CCaMK^{TD}</i>	7.4	88.9	3.6 (\pm 0.7)	27

The numbers indicate the ratio of the number of plants that showed spontaneous nodulation events, i.e., formation of small bump-like structures (Bump) or spontaneous nodules (SpN) in the cortex, to the total number of plants 6 weeks after transplantation. Numerals in parentheses indicate the numbers of spontaneous nodules (Sp nodules) as averages (\pm SE) of nodulated plants. Data were compiled from more than two independent experiments. wt, Gifu B-129; *pEpi*, promoter Epi308; *p35S*, promoter CaMV 35S; *CCaMK^{TT}*, wt-*CCaMK*; *CCaMK^{TD}*, *CCaMK^{T265D}*

Table S2. Primer sequences used for construction.

Primer name		Sequence (from 5' to 3')
DraI_p168-fw	forward	gctttaaAAGAAAGTAATCTTGTTGAC
DraI_p308-fw	forward	gctttaaAAAGTATGAGACCTAGAAA
SpeI_p168/p308-rv	reverse	gcactagtGGTTAAGCTTCTGGCTAT
HindIII_p400-fw	forward	cccaagcttGGTCGGTGGTTGA
SpeI_p400-rv	reverse	atactagtGGTTGTTGGTGTGCTAGCTG
caccCCaMK-fw	forward	caccATGGGATATGATCAAACCAGAA
CCaMK-rv	reverse	CTATGATGGACGAAGAGAAG
caccNFR5-fw	forward	caccTTATTGATATACTAAACCACAGGAT
NFR5-rv	reverse	GGAACGACGTATACGACTTC
caccNUP85-fw	forward	caccATGCCCTCCGACACAGTC
NUP85-rv	reverse	CTATTCATCAAGTATAGCACGACCA
SacII_NUP133-fw	forward	caccgcggATGTTTTTCGTGTGGAACGAAG
AscI_NUP133-rv	reverse	ggcgcgcCTATTCCATGGGAGAAGGCC

Lower case characters indicate engineered sequences including restriction sites or D-TOPO recognition site.

Table S3. Primer sequences used in the expression analysis.

Gene name		Sequence (from 5' to 3')
<i>Ubiquitin</i>	forward	ATGCAGATCTTCGTCAAGACCTTG
	reverse	ACCTCCCCTCAGACGAAG
<i>EXPA7</i>	forward	GCCTCCACTAGTAGCTGGCATA
	reverse	CAACGTCGAGCTCAATGCAG
<i>EXPA8</i>	forward	GCTGTGGTATTTTCGACCCAGT
	reverse	TAGCGTCGAGCTTAAAGCCAC
<i>RH101</i>	forward	GCTAACGCCATGGTCAAGATG
	reverse	GGAATCACACAGTTTGGCAATG
<i>RH102</i>	forward	CGCAGCTCAAACAAAGAAAGC
	reverse	GCTGTAACAATTCCTGCAGAGTTG
<i>NFR1</i>	forward	CCAGAAGAAGGAAGAAGAGAAAGCT
	reverse	CCAGAAGTTTCATATTCTGCACTAC
<i>NFR5</i>	forward	GGTGGTTATGCTGTGGAAGG
	reverse	TCCATCCATTTTCTGATCCTC
<i>NUP85</i>	forward	CAATTGCCACGAAATGTGAG
	reverse	CAGGTAGCCATGCTTGAGA
<i>NUP133</i>	forward	TCCCTGGACTCCTCGCTTATCTGT
	reverse	ACGCGCAGCCTTCAACGGG
<i>CASTOR</i>	forward	ATGGTGGCCTTGACATAAG
	reverse	AGTGACGACGTATAACAGCA
<i>POLLUX</i>	forward	TTACTCTCCTGGTTCTCTTCC
	reverse	AGGTATCCTAGGGAAAAAGC
<i>CCaMK</i>	forward	TCTTGTGCTGGAGCTTTGTTCT
	reverse	AGCCTTGTGAACCGCCTCT
<i>CYCLOPS</i>	forward	GCTGGCAGATGAAAAAGAGC
	reverse	GCGTGTTTGAGCACAAACATT
<i>SYMRK</i>	forward	TGAATGGAATTCTTTTGATTCTG
	reverse	TCACTTGCACTTGACCCAGA
<i>NSP1</i>	forward	GAGGTCGAGCTTTGTTGAGG
	reverse	ATTCCCATCCAGCTTCCAC
<i>NSP2</i>	forward	CATCGACTCCATGATTGACG
	reverse	GGTTGTTGTTGTCGTGGTTG
<i>NIN</i>	forward	TGGATCAGCTAGCATGGAAT
	reverse	TCTGCTTCTGCTGTTGTCAC