

Table S1. Information of Strains and Vectors

Strain	Relevant characteristics	Reference
<i>Escherichia coli</i>		
DH5α	supE44 lacY169 (80lacZM15) hsdR17 recA1 endA1 gyrA96 thi-1 relA1	Transgene (Transgene Biotech Co., Beijing, China)
<i>A. tumefaciens</i>		
EHA105	C58 (rif ^R) Ti pEHA105 (pTiBo542DT-DNA) (strep ^R) Succinamopine	Transgene (Transgene Biotech Co., Beijing, China)
K599	Agrobacterium rhizogenes (strR) pRi2659 (agropine type)	Transgene (Transgene Biotech Co., Beijing, China)
<i>Rhizobium</i>		
strains		
HH103	Broad host range bacterium isolated from nodules of Glycine max , Rif ^r	This work
Plasmids		
pGWC	Entry clone vector, Cm ^r	Chen et al. [1]
pGWB5	Binary expression vector, Km ^r	Nakagawa et al. [2]
pB7GWIWG2(II)	RNA interference silencing vector used for directed mutagenesis (Gm ^r)	Quandt and Hynes. [3]
pSoy1	plant binary vector used to study the influence of gene over-expression (Spec ^r)	Schmidhuber, S.[4]

References cited in Table S1

- [1] Q. Chen, H. Zhou, J. Chen, X. Wang, Using a modified TA cloning method to create entry clones, Analytical biochemistry. 358.1 (2006), 120-125.
- [2] Tsuyoshi, N., K. Takayuki, H. Takeshi, T. Katsunori, K. Makoto, N. Yasuo, et al. 2007. Development of series of gateway binary vectors, pGWBs, for realizing efficient construction of fusion genes for plant transformation. J. Biosci. Bioeng. 104: 34-41.
- [3] Mansour, K., I. Dirk and D. Ann. 2002. GATEWAY™ vectors for Agrobacterium-mediated plant transformation. Trends Plant Sci. 7: 193-195.
- [4] Schmidhuber, S., Ludwig, W., Schleifer, K. H. (1988). Construction of a DNA probe for the specific identification of Streptococcus oralis. J.Clin.Microbiol. 26 : 1042-1044 .

Table S2 Primers for this research

primers	sequence	primers	sequence
Glyma.05G244200-qRTPCR-F	TTTGCTCCTCTGCACTA	GmNSP1-qF	ACCACAACACCCCTTGAGAC
Glyma.05G244200-qRTPCR-R	CATGCACTCTTTATGCCTTC	GmNSP1-qR	GTTGTTGTCCCTTCTGCGTG
Glyma.05G240500-qRTPCR-F	GGTGAAATCTTCCGGTTC	GmNIN-qF	ATGCAAGGCGCATAACTTGC
Glyma.05G240500-qRTPCR-R	GAAATAGGTAGGAAGAAGTG	GmNIN-qR	AAGGTGACACTCAGAGCACG
GmNSP2-qF	TCTCCATCACGGAGGAGGAC	GmActin-F	GGTGGTTCTATCTTGGCATC
GmNSP2-qR	TGGGACGACACCAACTCCTT	GmActin-R	CTTTCGCTTCAATAACCCTA
240500-PGWC-F	agcaggccttgactttaggtcATGGTGAAATCTTCCGGTTCGG		
240500-PGWC-R	tgggtctagagactttaggtcgTATTCTCGAGTTTCTCCATCTCTATGATCA		