

Table S1. Primers used in this work.

Primer usage	Primer name	Primer sequence (5'- 3')	Concentration
double stranded RNA synthesis	T7NIESMuc-F	TAATACGACTCACTATAGGGCAAACAGTAC AACTGCACCTCC	10mM
	T7NIESMuc-R	TAATACGACTCACTATAGGGGCTTGGCGAT ACTGTGCCAGG	10mM
	T7GFP-F	TAATACGACTCACTATAGGGAGAATGAGTA AAGGAGAAGAACTTTTC	10mM
	T7GFP-R	TAATACGACTCACTATAGGGAGATTTGTAT AGTTCATCCATGCCATGT	10mM
quantitative real-time PCR	qNIESMuc-F	AGTGGCATTTCGTTCTTAAAGG	10mM
	qNIESMuc-R	TGTGGTTGTGGCTTGTGG	10mM
	RPS11-F	CCGATCGTGTGGCGTTGAAGGG	10mM
	RPS11-R	ATGGCCGACATTCTCCAGGTCC	10mM
	18S-F	GTAACCCGCTGAACCTCCT	10mM
	18S-R	TCCGAAGACCTCACTAAATC	10mM

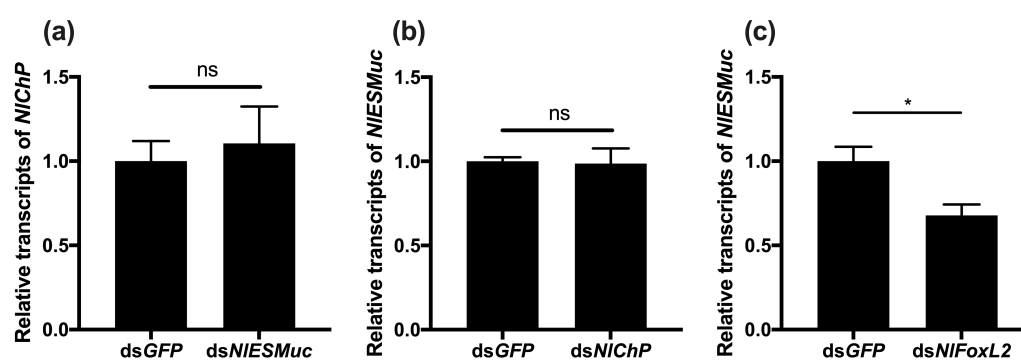


Figure S1. (a) The expression level of a known eggshell protein gene *NlChP* in ds*NIESMuc*-injected female BPHs at 72 h post emergence. There was no significant difference. (b) The expression level of *NIESMuc* in ds*NlChP*-injected female BPHs at 72 h post emergence. There was no significant difference. (c) The expression level of *NIESMuc* after the RNAi of *NlFoxL2*, which regulates eggshell formation in BPHs, at 72 h post emergence. The mRNA level of *NIESMuc* decreased by 32.24% ($p = 0.04$).