Table S1. The transcriptome data statistics of DEG *BmβGRP4*.

Gene ID	Gene Description	Accession No.	P50+/P50-
BGIBMGA000353	beta-1,3-glucan recognition protein 4 precursor [*Bombyx mori*]	NM_001166142.1	0.014

Table S2. The primers used in this study.

Primer name	Sequence (5′-3′)	Purpose
BmβGRP4-F	CCG<u>GAATTC</u>*TGCACACCCAGCGTAAC (*EcoR I*)	Protein
BmβGRP4-R	CCG<u>CTCGAG</u>TTATAACGCCCAAACTCG (*Xho I*)	expression
OEBmβGRP4-F	CCG<u>GAATTC</u>ATGTGGCTGTTAACTCTGGG (*EcoR I*)	Overexpression
OEBmβGRP4-R	CCG<u>CTCGAG</u>TAACGCCCAAACTCGAAC (*Xho I*)	
qBmβGRP4-F	ACCCAGCGTAACGACAGTGAG	
qBmβGRP4-R	TAAAGTGTTTTCGTGCTGCCAT	
BmGAPDH-F	CATTCCGCGTCCCTGTTGCTAAT	
BmGAPDH-R	GCTGCCTCCTTGACCTTTTGC	
VP39-F	CAACTTTTTGCGAAACGACTT	
VP39-R	GGCTACACCTCCACTTGCTT	
qBmApaf1-F	ACAGTTCACAACCCTCTAAAATCAC	
qBmApaf1-R	CACTTTCTTACCACGCATCACC	
qBmDredd-F	TAATAGTCGTTCTGACTTGGGACA	
qBmDredd-R	TCGGTATGCAATGCAGTTTCT	
qBmCaspaseNC-F	TTCCCAGCAAATGATAGAACCA	RT-qPCR
qBmCaspaseNC-R	ATCAAGGTCACGCACCAAATC	
qBmICE-F	CCTCATCCATAAAGGGACCAC	
qBmICE-R	CTGCCGACCAACCATACAAG	
qBmCaspase1-F	AAGAGCCACGAGTTGTGTTT	
qBmCaspase1-R	TGCCAAGGTGATAAGTTAGA	
qBmBuffy-F	TCAGCTATGCTACGCTCAGACA	
qBmBuffy-R	ATCCATGATCCAGGCTCCTC	
qBmPTEN-F	CTGATAGTGGAGAAGGTGCCG	
qBmPTEN-R	GTAATGGCCGACGCGCT	
qBmIAP-F	TGACGAAAGTTGCTAAAAATGGA	
qBmIAP-R	GGTGACGGGAGTGTGGATGT	

* The underline represented restriction enzyme cutting site.

Table S3. The siRNA sequences used in this study.

siRNA name	Sequence (5′-3′)	Length (bp)
siBmβGRP4-Sense	GCCCUAAUAUCGGCGAGUATT	21
siBmβGRP4-Anti-sense	UACUCGCCGAUAUUAGGGCTT	21
siNC-Sense	UUCUCCGAACGUGUCACGUTT	21
siNC-Anti-sense	ACGUGACACGUUCGGAGAATT	21