

Table S1: Annotated result tables of 15 hub genes in Swiss-Prot, Pfam and NR

Gene_id	Swiss-Prot annotation	Pfam annotation	NR annotation
Unigene2681_All	Sarcotoxin-2A OS=Sarcophaga peregriana OX=7386 PE=1 SV=1	Attacin, C-terminal region	antibacterial peptide [Harmonia axyridis]
Unigene2682_All	NA	Attacin, C-terminal region	attacin 2 [Tenebrio molitor]
CL109.Contig4_All	Coleopteracin OS=Zophobas atratus OX=7074 PE=1 SV=1	Coleopteracin	coleopteracin [Anatolica polita]
Unigene9343_All	Attacin-A OS=Glossina morsitans morsitans OX=37546 PE=1 SV=1	Attacin, C-terminal region	uncharacterized protein BDFB_011474 [Asbolus verrucosus]
CL270.Contig2_All	NA	Attacin, C-terminal region	attacin 2 [Tenebrio molitor]
CL660.Contig1_All	NA	Attacin, C-terminal region	attacin 2 [Tenebrio molitor]
CL109.Contig6_All	Coleopteracin OS=Zophobas atratus OX=7074 PE=1 SV=1	Coleopteracin	coleopteracin [Anatolica polita]
Unigene4478_All	NA	Attacin, C-terminal region	antibacterial peptide [Harmonia axyridis]
CL270.Contig3_All	NA	Attacin, C-terminal region	attacin 2 [Tenebrio molitor]
CL270.Contig1_All	NA	Attacin, C-terminal region	attacin 2 [Tenebrio molitor]
CL109.Contig1_All	Coleopteracin OS=Zophobas atratus OX=7074 PE=1 SV=1	Coleopteracin	coleopteracin [Anatolica polita]
CL109.Contig3_All	Coleopteracin OS=Zophobas atratus OX=7074 PE=1 SV=1	Coleopteracin	coleopteracin [Anatolica polita]
Unigene5610_All	Defensin Lucifensin OS=Lucilia sericata OX=13632 PE=1 SV=2	NA	Defensin-like Protein [Tribolium castaneum]
CL109.Contig5_All	Coleopteracin OS=Zophobas atratus OX=7074 PE=1 SV=1	Coleopteracin	coleopteracin [Anatolica polita]
Unigene2683_All	Sarcotoxin-2A OS=Sarcophaga peregriana OX=7386 PE=1 SV=1	Attacin, C-terminal region	antibacterial peptide [Harmonia axyridis]

Table S2: Table of RT-qPCR primers

Gene ID	Forward-primer	Reverse- primer
<i>HvRPL13</i>	AGCATCCTTCGCTCGTTTAG	TTCGACAACCTGCCATTAGG
<i>Unigene3049_All</i>	CAGACGGGCCAGGACAAG	TGGATTCTGTGGCCGTGG
<i>Unigene375_All</i>	ACGATGCCTGTTGTGACGA	AACACCATAACCGCTGCCG
<i>Unigene9258_All</i>	GTTGGTGTGAGGCTGGA	ACCACCAACGCACTCTGG
<i>Unigene483_All</i>	TGAGTGGAAGTTGGGATCACC	CCAGCAGTGCCTACCACC
<i>Unigene209_All</i>	GCAGGAGCAATGATGTCAGTG	TCGCCCTGCATTGGTGTT
<i>Unigene4408_All</i>	GTCGCAAGGACCGGTCAA	CCGGCTGATATGCACCCA
<i>Unigene3992_All</i>	CAGCGGTGGTGGGTTGAT	GCTGGCAGCAACGGAAAC
<i>Unigene11687_All</i>	CCAGAAGGTGGGGTCACTG	TGGCTCCATTGGGTCCAC