

Electronic Supplementary Material

Meta-transcriptome profiling of Novel Invasive Pest *Spodoptera frugiperda* in Yunnan, China

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Table S1. General statistical indexes of RNA-Seq raw sequence reads and assembled contigs

Overall evaluation of RNA-seq	Value
Total size (Gb)	30.3
Paired reads	43093070
Average length of reads (nt)	145
GC percentage (%)	40.45
Assembly evaluation	Value
Number of transcripts	531181
Muti-position matched	30295516
Perfect matched	6902422
Unmapped pairs	5895132
Percentage of mapped reads	86.32%
N50 of transcripts (nt)	647
Max length of transcripts (nt)	71803
Min length of transcripts (nt)	201
Transcripts with homologous in NR/trEMBL	204751 (38.5%)

Table S2. Primers used in this study.

Reference virus and mapped gene	PCR primers (5' to 3')	Amplicon size (bp)
<i>Autographa californica</i> nucleopolyhedrovirus strain E2 (hypothetical protein)	F: TATAATGTTGATAGTACAGAG R: GGATGGCACGACAGGCGTGCC	370
<i>Clanis bilineata</i> nucleopolyhedrovirus (P87/VP80)	F: TTCTAGGCAAGTTTGTATT R: TTCTCTATGTATGGGAATA	390
<i>Helicoverpa armigera</i> granulovirus (hypothetical protein HaGV_gp053)	F: ATCAAAGAAGAGCTATGAT R: CGTGTATTCCACGACATGG	252
Serratia phage Eta_0034 (hypothetical protein)	F: GTTGTTGCATGGATCGAAT R: AGAAGCAGTTAACCCCAAC	234
<i>Spodoptera frugiperda</i> rhabdovirus (L protein)	F: AAGTGGGATCTTCTATACT R: TGGGGTCACCCCACCCTGG	262
<i>COI</i>	F: GTAGGTACTTCTTTAAGTTTATT R: AAAATATATACTTCAGGATGTCC	610
<i>Tip</i>	F: GGTGAAATCTCCCCTGCTATG R: AATTTTATTACCTGCTGTGG	310