Table S1. The GenBank accession numbers of the analyzed ATG3 sequences in construction of

phylogenetic tree.

	Species name	Accession numbers
1	*Drosophila melanogaster*	NP_649059
2	*Apis mellifera*	XP_624693
3	*Tenebrio molitor*	AHC00664
4	*Aedes aegypti*	XP_001657463
5	*Helicoverpa armigera*	XP_021197073
6	*Bombyx mori*	NP_001135961
7	*Tribolium castaneum*	EFA03061
8	*Nilaparvata lugens*	AWW05868
9	*Locusta migratoria*	ATX63055
10	*Manduca sexta*	XP_037301759
11	*Bemisia tabaci*	XP_018898322
12	*Cryptotermes secundus*	PNF36327
13	*Bactrocera dorsalis*	JAC54275
14	*Anoplophora_glabripennis*	JAB62976.1

Table S2. The GenBank accession numbers of the analyzed ATG9 sequences in construction of

phylogenetic tree.

	Species name	Accession numbers
1	*Drosophila melanogaster*	NP_001261023
2	*Apis mellifera*	XP_395581.4
3	*Aedes albopictus*	XP_001657463
4	*Nilaparvata lugens*	AWW05881.1
5	*Locusta migratoria*	ATX63059
6	*Frankliniella occidentalis*	KAE8750316
7	*Nasonia vitripennis*	XP_032457190
8	*Heortia vitessoides*	QNO58549.1

Figure S1. Agarose gel electrophoresis of dsRNA sequences of *S. furcifera*