

Supplementary Material

Table S1. Chitin synthase genes characterized in various insects

Insect sp.	Gene	Reference (s)
<i>Aedes aegypti</i>	<i>CHS2</i>	[9]
<i>Anopheles gambiae</i>	<i>CHS1, CHS2</i>	[8]
<i>Anopheles quadrimaculatus</i>	<i>CHS1</i>	[14]
<i>Choristoneura fumiferana</i>	<i>CHS1</i>	[60]
<i>Diabrotica Virgifera</i>	<i>CHS2</i>	[57]
<i>Drosophila melanogaster</i>	<i>CHS1, CHS2</i>	[10]
<i>Ectropis obliqua</i>	<i>CHS1</i>	[58]
<i>Laodelphax striatellus</i>	<i>CHS1</i>	[35]
<i>Locusta migratoria</i>	<i>CHS1, CHS2</i>	[34, 36]
<i>Lucilia cuprina</i>	<i>CHS1</i>	[7]
<i>Mamestra brassicae</i>	<i>CHS1</i>	[56]
<i>Manduca sexta</i>	<i>CHS1, CHS2</i>	[11-12]
<i>Nilaparvata lugens</i>	<i>CHS1</i>	[35]
<i>Ostrinia furnacalis</i>	<i>CHS1, CHS2</i>	[47, 59]
<i>Plutella xylostella</i>	<i>CHS1</i>	[39]
<i>Spodoptera exigua</i>	<i>CHS1, CHS2</i>	[54-55]
<i>Spodoptera frugiperda</i>	<i>CHS2</i>	[53]
<i>Tribolium castaneum</i>	<i>CHS1, CHS2</i>	[13]

Table S2. Effect of DFB at different dosages on the *A. glycines*' survival

Days after feeding	Cumulative percent mortality (\pm S.E)		
	0 ppm (Control)	5 ppm	50 ppm
1	0.00 \pm 0.00	2.22 \pm 0.02	2.22 \pm 0.02
2	1.11 \pm 0.01	4.44 \pm 0.02	6.67 \pm 0.03
3	1.11 \pm 0.01	4.44 \pm 0.02	11.11 \pm 0.03
4	2.22 \pm 0.02	4.44 \pm 0.02	16.67 \pm 0.04
5	2.22 \pm 0.02	7.78 \pm 0.03	20.00 \pm 0.04
6	5.56 \pm 0.02	8.89 \pm 0.03	23.33 \pm 0.05

Figure S1. Schematic diagram of the exon-intron organization of the *ApCHS* gene in *A. pisum* (LOC100162079, Aphidbase). Light-black boxes indicate exons and white boxes indicate introns. *ApCHS* is 12935 bp long and contains 20 exons (numbered 1-20).

