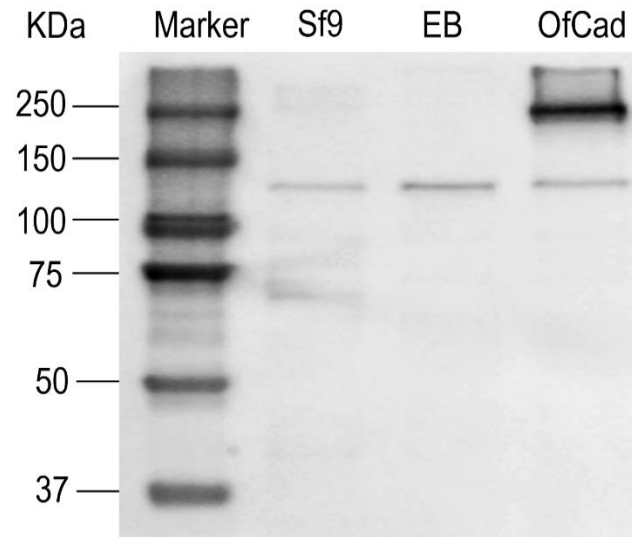


**Supplementary Materials: Cadherin protein is involved in the action of  
*Bacillus thuringiensis* Cry1Ac toxin in *Ostrinia furnacalis***

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**Figure S1.** Immunoblot analysis of *Ostrinia furnacalis* cadherin (OfCad) from Sf9 cell extracts. Equivalent amounts (10  $\mu$ g) of recombinant OfCad proteins extracted from baculovirus-transfected Sf9 cells were separated by SDS-PAGE and transferred to a PVDF membrane. Immunoblot was probed with anti-His TagMouse monoclonal antibody and HPR-conjugated goat anti-mouse. Bands indicate cross-reactivity with anti-His peptide antibody. Extracts from Sf9 (non-transfected Sf9), EB (Sf9 cells transfected with empty bacmid), OfCad (Sf9 cells transfected with full-length wild-type OfCad) are indicated above lanes. WesternC<sup>TM</sup> protein markers (Bio-Rad Laboratories, Inc. USA) were used for immunoblot experiment.

**Table S1.** Mortality of Sf9 cell lines to Cry1Ac toxin. Sf9 present non-transfected Sf9 cells, and Sf9 cells infected by empty bacmid or *Ostrinia furnacalis* OfCad were marked as EB and OfCad in the table, respectively.

Concentration (nM)	Cell mortality (% , mean $\pm$ SE)		
	Sf9	EB	OfCad
0	1.0 $\pm$ 0.06	2.2 $\pm$ 0.20	4.60 $\pm$ 1.20
1	1.1 $\pm$ 0.20	7.0 $\pm$ 1.64	12.1 $\pm$ 1.72
10	1.0 $\pm$ 0.10	5.5 $\pm$ 0.85	17.5 $\pm$ 1.91
100	1.2 $\pm$ 0.17	6.4 $\pm$ 0.72	22.1 $\pm$ 1.68
333	1.1 $\pm$ 0.06	4.7 $\pm$ 0.78	45.7 $\pm$ 0.36
1000	1.0 $\pm$ 0.15	6.4 $\pm$ 1.72	61.9 $\pm$ 2.34
2000	1.0 $\pm$ 0.20	6.4 $\pm$ 0.85	77.8 $\pm$ 2.66
4000	1.2 $\pm$ 0.15	5.9 $\pm$ 0.20	86.9 $\pm$ 1.46

**Table S2.** Primers used for PCR amplification in this study. The underlined sequence represents infusion homology arms.

Primer Name	Primer Sequences (5' to 3')
Full_F	<u>GGATCCGGAATTC</u> <u>AAAGGCC</u> <u>TT</u> ATGGGGGTTGAGAGGTTCTTC
Full_R	<u>TGAGCTCGTCGACGTAGGC</u> <u>TT</u> ACTTTGGGTGCGGCTGTG
sgRNA_Ex4F	TAATACGACTCACTATAGGCCAGCCCAGAGCCCAGCT
sgRNA_Ex4R	TTCTAGCTCTAAAACAGCTGGGCTCTGGGCTGGC
sgRNA_Ex35F	TAATACGACTCACTATAGCCACGCATGGCAACAACCT
sgRNA_Ex35R	TTCTAGCTCTAAAACAAGTTGTTGCCATGCGTGG
Outer_F	GTTGGCATCGAATCATCACCC
Outer_R	GCCGAATGACGGAGTCGGGTT
Inner_F	CACGATCACCGACCGAGACAT
Inner_R	AGTGAATGACGGAGTCGGGTT