

### Supplementary material

**Table S1.** Susceptibility of *S. frugiperda* neonates and third instar larvae to Vip3Aa19 toxin.

Different Stages	n	LC <sub>50</sub> (95% FL) $\mu\text{g/g}$	Slope $\pm$ SE	$\chi^2$	df
1st instar	504	2.11 (1.65–2.60)	2.15 $\pm$ 0.27	10.72	19
3rd instar	408	4.98 (4.04–6.23)	2.34 $\pm$ 0.20	22.99	15

n, Number of larvae tested. SE, Standard error. 95%FL, 95% fiducial limits.