



Yassine H, Fig. S1

Fig. S1. *CLIPA2* kd mosquitoes are more tolerant to natural *B. bassiana* infections. *LacZ*, and *CLIPA2* kd adult female *A. gambiae* mosquitoes were challenged with *B. bassiana* (strain 80.2) by spraying mosquitoes with a suspension of 1×10^8 conidia/ml. Dead mosquitoes were counted daily over the indicated period. Graphs represent percent survival as calculated by the Kaplan-Meier method for two representative experiments. Statistical significance was calculated by the log rank test. Survival curves were considered to be significantly different if $P < 0.05$.

CLIPA2-G3	MRERWCFAMDRIVLVALVAGCLLVAVAAQADYIQQEQCVTASNRAGYCMT
CLIPA2-Pest	MRERWCFAMDRIVLVALVAGCLLVAVAAQADYIQQEQCVTASNRAGYCTT ***** *
CLIPA2-G3	KAECPDQEQVDLRAATCSATHYCCPDRSEQLPSRNRPKLLTQCDSNRGY
CLIPA2-Pest	KAECPDQEQLDLRAATCSATHYCCPDRSEQLPSRNRPKLLTQCDSNRGY *****
CLIPA2-G3	CVKGDACSVRTFRLRSNRCPAYEEVCCPKSAFPEEFHATQ↓VAKHDLSIGA
CLIPA2-Pest	CVKGDACSVRTFRLRSNRCPAYEEVCCPKNAFPEEFHATQ----- *****
CLIPA2-G3	TTSTTTSTT
CLIPA2-Pest	-----PMPVGESDQILEIQASTTPVSAT -----
CLIPA2-G3	TANSLGTSLDAQSSEGTGASEPTKLPILRPITPDQQTVESSGVNNTTDS
CLIPA2-Pest	-----TVESSGVNNTTDS *****
CLIPA2-G3	IEKSAKPTTNTSDAQLELTSSSESNDLVTSIIDTALVDDNSLQETDTTTI
CLIPA2-Pest	IEKSAKPTTNTSDAQLELTSSSESNDLVTSIIDTALVDDNSLQETDTTTI *****
CLIPA2-G3	PVIPPNAADPPPTPALTAQFTPEFSYQDCGQLNLNGVVQRTINEDFRAE
CLIPA2-Pest	PVIPPNAADPPPTPALTAQFTPEFSYQDCGQLNLNGVVQRTINEDFRAE *****
CLIPA2-G3	YGEFPMVALFQLPEQRYCCNGALIDPKAILTTAHCVTNCGGRAANIMVR
CLIPA2-Pest	YGEFPMVALFQLPEQRYCCNGALIDPKAILTTAHCVTNCGGRAANIMVR *****
CLIPA2-G3	FGAWNMSSTHEMAIPREDIGVKSVMHQHPRYSPSALLNNAVLLELAHPVQY
CLIPA2-Pest	FGAWNMSSTHEMAIPREDIGVKSVMHQHPRYSPSALLNNAVLLELAHPVQY *****
CLIPA2-G3	QATIQPVCLPSANQPLRAMENMIATGWGRVMEENAPPTQILKRLDLQRME
CLIPA2-Pest	QATIQPVCLPSANQPLRAMENMIATGWGRVMEENAPPTQILKRLDLQRME *****
CLIPA2-G3	PSICREALRRVQRPYPFILDSSFVCSTTNHCDQERPCDGDAGAPVVVELP
CLIPA2-Pest	PSICREALRRVRRPYPFILDSSFVCSTTNHGDQERPCDGDAGAPVVVELP *****
CLIPA2-G3	GTTNRYYLHGLVSWGYGCHQKQIPYTVLTKVVHFREWIDRIVLGFKKKVK
CLIPA2-Pest	GTTNRYYLHGLVSWGYGCHQKQIPYTVLTKVVHFREWIDRIVLGFKKKVK *****
CLIPA2-G3	KGHSKQRE (1-608)
CLIPA2-Pest	KGHSKQRE (1-511) *****

Yassine H, Fig. S2

Fig. S2. Alignment of CLIPA2 proteins sequences from the PEST and G3 strains. The predicted CLIPA2 protein sequence of the PEST strain was aligned with that corresponding to the sequenced G3 cDNA using T-Coffee multiple sequence alignment tool. G3 CLIPA2 contains a region of 97 amino acids (delimited by arrows) containing a stretch of threonines (shown in a rectangle) which is absent from the PEST CLIPA2 sequence since it was mispredicted to be encoded by an intron. Further, the genomic sequence encoding this region is supported by mRNA-seq data in VectorBase (www.vectorbase.org) suggesting that it is indeed part of the coding sequence. The complete CLIPA2 cDNA sequence from G3 strain is available in GenBank under accession number KF955283.