



**Figure S5** Effects of combined knockdown of *krz* and *Ulp1* on *Drs* expression and larval immune function. *Cg-GAL4* was used to drive the indicated *UAS* transgenes in third instar larvae. (A) Quantitative RT-PCR of endogenous *Drs* gene expression in whole third instar larvae. *Drs* levels were increased approximately 25-fold in a double knockdown of *krz* and *Ulp1*, and 3000-fold when *Toll<sup>10b</sup>* was overexpressed. Note that *Toll<sup>10b</sup>* is the strongest gain of function mutant reported. (B) Bacteria killing assay. Five microliters of diluted cultures of *E. faecalis* in 2xYT media containing approximately 450 bacteria were mixed with hemolymph from 10 opened third instar larvae. The mixture was incubated for 30 min, plated on 2xYT agar plates and the number of colonies counted after 18 hours at 37°C. Overexpression of *Toll<sup>10b</sup>* resulted in a moderate but significant decrease in bacterial numbers. Knockdown of *krz* and *Ulp1* also led to a modest decrease, with the *p* value indicated. Five independent experiments were performed. \*, *p* < 0.05; \*\*, *p* < 0.01. Error bars represent standard error.