



Figure S1. Second virulence assay testing the virulence of an independent mutant (MU638) overexpressing *wex1*. Mice were injected with 1×10^6 spores of the *Pzrt1-wex1* (green, MU638) mutant, the Vi pathotype (blue), and the Av pathotype (red). The survival rate of the mutant MU638 was compared to the Vi control strain and statistically analyzed by a Mantel-Cox test.