



Figure S5 V-cGAPs regulate bacterial chemotaxis and intestinal colonization *in vivo*.

(A) 293T cells were transfected with DncV or cGAS (bottom). 3'3'-cGAMP (by DncV expression) or 2'3'-cGAMP (by cGAS expression) was isolated from the transfected cells after 24 hours, and cGAMP activity assay was performed in PFO-permeabilized THP-1 cells. (B) Examination of chemotactic behavior (top and center) of *V. cholerae* Δ VCA0681 mutant (1 and 2) or Δ dncV mutant (3 and 4) expressing arabinose-induced DncV (1 and 4). Bacterial 3'3'-cGAMP was extracted and its activity was measured by cGAMP activity assay (bottom). (C) Measurement of the mean A_{570} values (top) reflecting crystal violet staining (bottom) of the biofilms formed by *V. cholerae* C6706 WT or indicated Δ V-cGAPs mutant strains in glass tube.