

Supplementary Figure 12. Bacterial OGAs protects mice against DSS-induced colitis by hydrolyzing O-GlcNAcylated proteins in colonic tissue. **(A)** Schematic outline of the DSS-colitis model and the treatment approach. **(B)** Immunoblot analysis of O-GlcNAc levels in colonic tissue lysates of DSS-treated mice receiving OGAs or Thiamet G (a selective OGA inhibitor). **(C-F)** Disease severity of DSS-colitis mice treated with OGAs or Thiamet G: body weight change **(C)**, histology manifestation on H&E staining **(D)**, scale bar: 200 μm , colon length **(E)** and inflammation score **(F)**. **(G-J)** Proinflammatory cytokines in colonic tissue lysates. Data represent the mean of three repeats per group with the SD; * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$.

