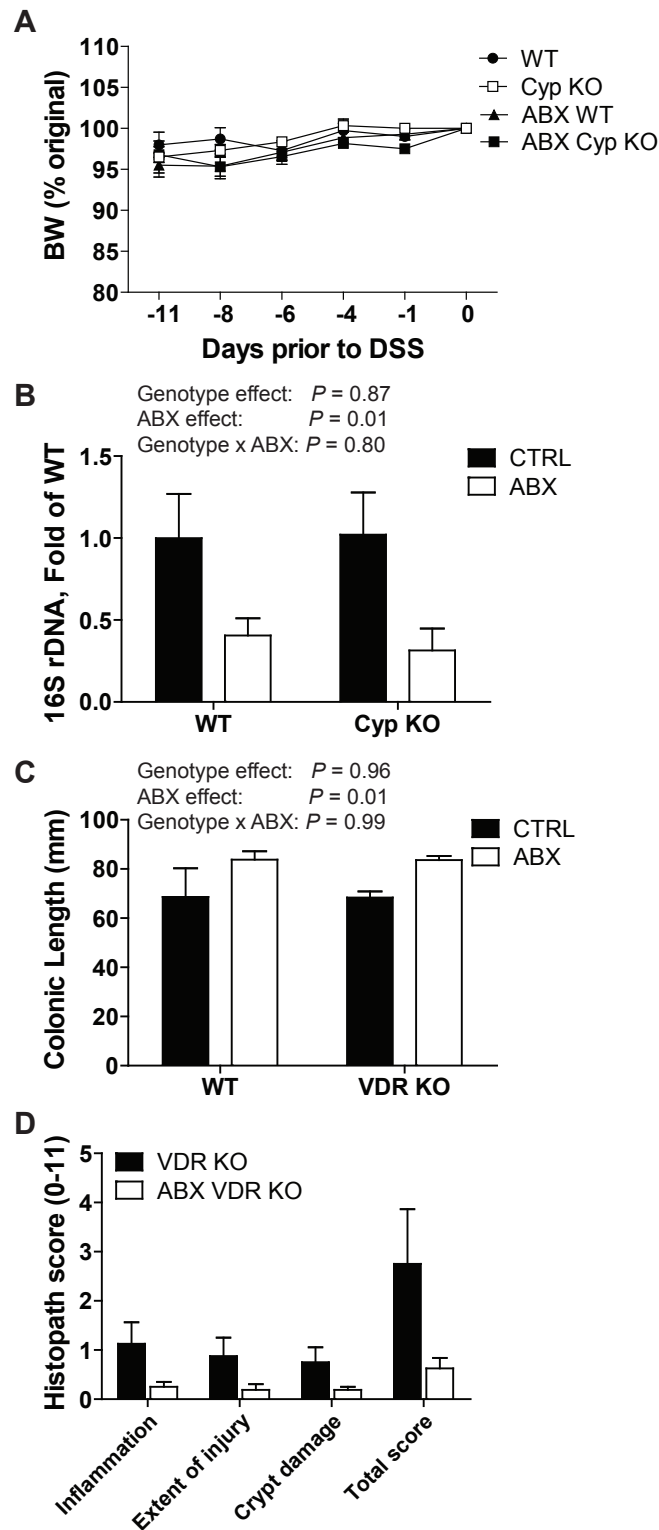


Online Supporting Material



Supplemental Figure 3. Symptoms of DSS-induced colitis in WT, Cyp KO, ABX WT and ABX Cyp KO mice. (A) BW of WT, Cyp KO, ABX WT, ABX Cyp KO prior to DSS treatment. Values are mean \pm SEM, $n=3-5$ mice per group. (B) Relative fold change of total 16S rDNA bacterial gene expression in feces before and after 2wk ABX. Values are mean \pm SEM, $n=4$ mice per group. (C) Colonic lengths at d10 post-DSS in WT and Cyp KO littermates with and without ABX treatment. Values are mean \pm SEM, $n=3-5$ mice per group. (D) Histological scores of the distal colon of VDR KO at d 10 post-DSS with and without ABX treatment. Values are mean \pm SEM, $n=3-5$ mice per group. Data shown is one representative experiment of three independent experiments. ABX: antibiotics, ABX Cyp KO: antibiotics treated Cyp KO, ABX WT: antibiotics treated WT, BW: body weight, CTRL: control no antibiotics, Cyp: *Cyp27b1*, DSS: dextran sodium sulfate, VDR : vitamin D receptor, WT: wild-type.