



**Fig. S1 Morphologic analysis of intestinal tissues in mice. (a)** Representative pictures of hematoxylin-eosin staining of intestinal tissues. **(b-d)** Statistical analyses of villus height (b), crypt depth (c), and the ratio of villus height to crypt depth (d) in duodenum, jejunum, and ileum, respectively. Data are presented as mean $\pm$ SEM ( $n=5$ ) and evaluated using the two-way analysis of variance in b-d. \*  $P<0.05$ ; ns, not significant.