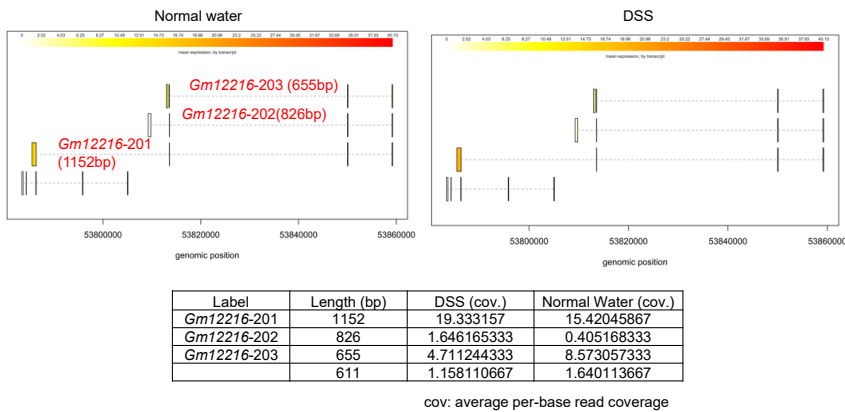
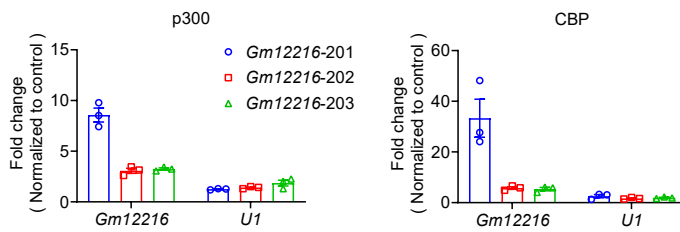


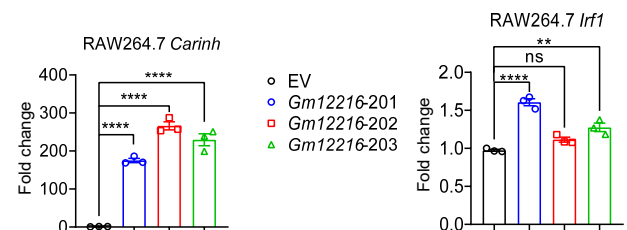
a *Gm12216* isoforms of CD11b⁺ cells sorted from colon



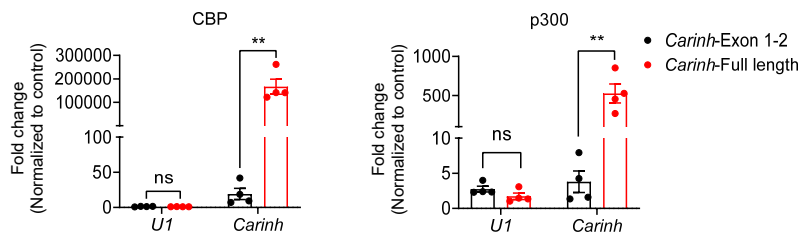
b RIP of *Gm12216* isoforms with CBP or p300



c *Gm12216* isoforms overexpression



d RIP of Exon 1-2 of *Carinh* with CBP or p300



Supplementary information, Fig. S11 Analysis of isoforms of *Gm12216*.

a. Isoforms of *Gm12216* were examined by RNA-seq. CD11b⁺ cells were sorted from colons of mice treated with DSS or water for RNA-seq. Isoforms of *Gm12216* were analyzed and named according to annotations in Ensembl

(http://asia.ensembl.org/Mus_musculus/Gene/Summary?db=core;g=ENSMUSG00000081769;r=11:53674244-53750082)

b. RNA-binding protein immunoprecipitation (RIP) analysis between *Gm12216* isoforms and H3K27ac modifier p300/CBP. Protein extracts from HEK293 cells transfected with HA-tagged p300 or HA-tagged CBP and *Gm12216* isoforms, were immunoprecipitated with HA antibodies. *Gm12216* isoforms binds to p300 or CBP were assayed by qPCR. *U1* represents a non-relevant control. Data are presented as relative expression of input and normalized to HA-EV controls. $n = 3$ per group.

c. qPCR analyses of *Carinh* and *Irf1* mRNA expression in RAW264.7 cells transfected with *Gm12216* isoforms plasmid or empty vector. $n = 3$ per group.

d. RIP analysis showed the bindings between the CBP/p300 with full length *Carinh* or truncation. $n = 4$ per group.

Data in **b**, **c**, **d** are representative of at least 3 independent experiments. Data represent means \pm SEM.

Data in **(c)** was analyzed by one-way ANOVA. ** $P < 0.01$, **** $P < 0.0001$, ns, not significant.

Data in **(d)** was analyzed by unpaired two-tailed Student's *t*-tests. ** $P < 0.01$, ns, not significant.