

**Title:** Supplementary Data 1:

**Description:** sgRNA information and performance in the *in vivo* CRISPR screen using analysis of edgeR.

**Title:** Supplementary Data 2:

**Description:** sgRNA information and performance in the *in vitro* CRISPR screen using analysis of edgeR.

**Title:** Supplementary Data 3:

**Description:** Significant differentially expressed genes in *Ankrd52*-null MC38 cells after treatment with IFN $\gamma$  or not using analysis of edgeR.

**Title:** Supplementary Data 4:

**Description:** sgRNA sequences used in the research.

**Title:** Supplementary Data 5:

**Description:** qPCR primers used in the research.