

Supporting Information

Boucher et al. 10.1073/pnas.1415475111

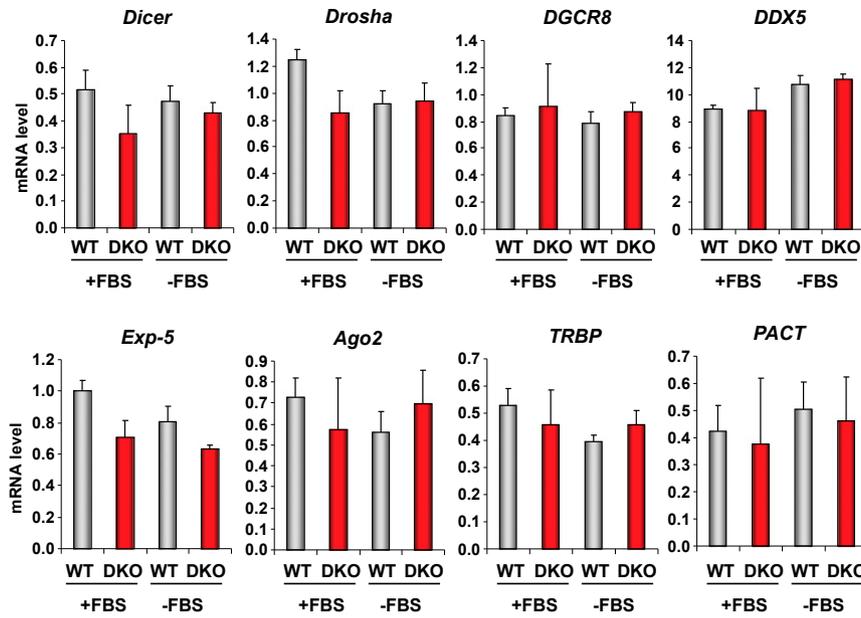


Fig. S1. Expression of proteins playing a role in microRNA (miRNA) formation or maturation. *Dicer*, *Drosha*, *DGCR8*, *Exp-5*, *Ago2*, *TRBP*, *PACT*, or *DDX5* mRNA levels were measured by real-time PCR in WT and double-knockout (DKO) cells in the presence (+FBS) or absence (-FBS) of serum for 6 h. Results represent the average \pm SEM of six independent experiments.

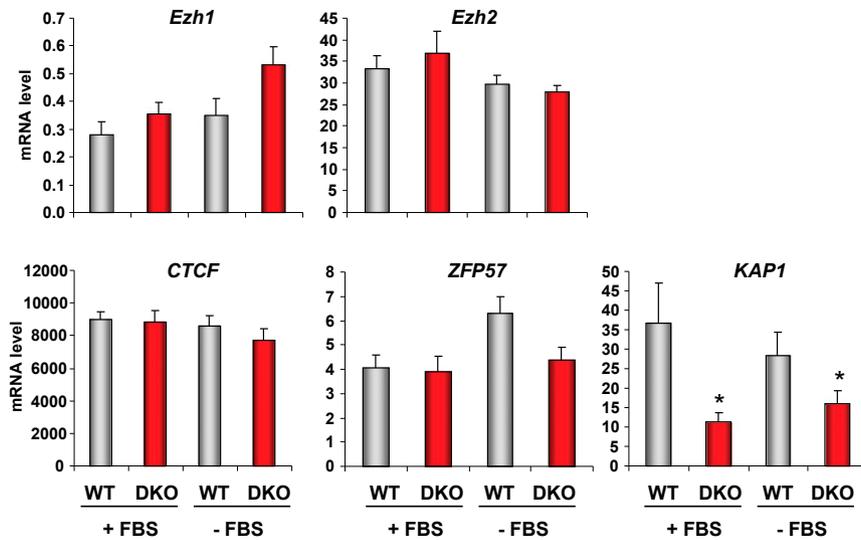


Fig. 54. mRNA levels in WT and DKO cells. mRNA levels of *Ezh1*, *Ezh2*, *CTCF*, *ZFP57*, and *KAP1* were measured by real-time PCR in WT and DKO cells in the presence (+FBS) or absence (-FBS) of serum for 6 h. Results represent the average \pm SEM of six independent experiments. * $P < 0.05$ compared with WT cells.

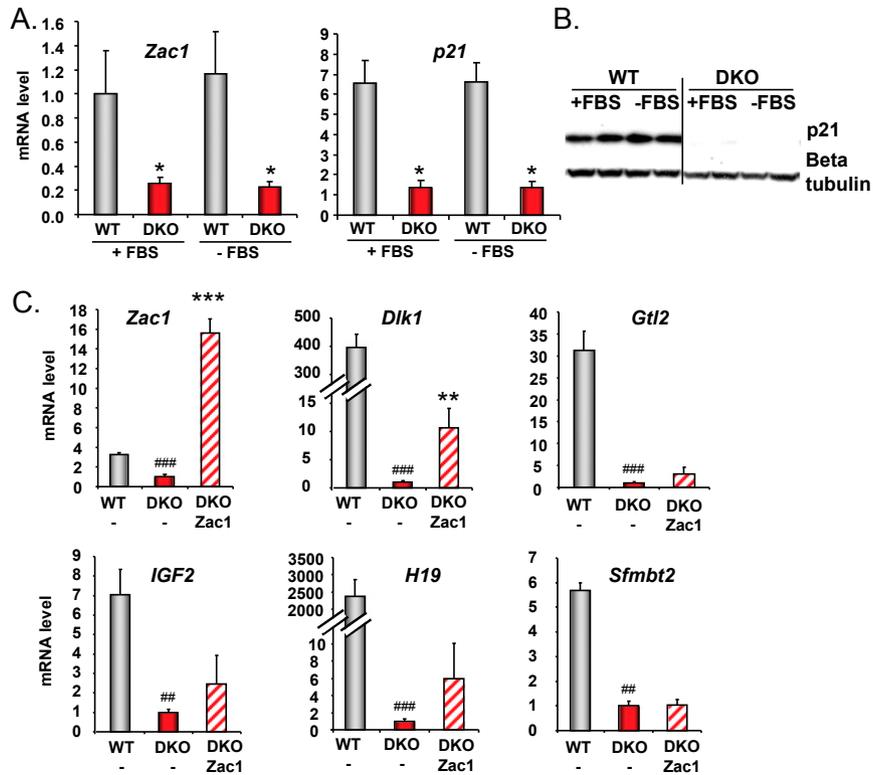


Fig. 55. *Zac1* levels and overexpression in DKO cells. (A) mRNA levels of *Zac1* and *p21* were measured by real-time PCR in WT and DKO cells in the presence (+FBS) or absence (-FBS) of serum for 6 h. Results represent the average \pm SEM of six independent experiments. (B) *p21* and beta-tubulin protein levels were quantified in WT and DKO confluent cells maintained in the presence or absence of serum for 6 h. One representative Western blot from three independent experiments is shown. (C) Expression of imprinted genes in DKO cells stably overexpressing *Zac1* and WT and DKO cells stably expressing the empty control pBabe vector were measured by real-time PCR. Results represent the average \pm SEM of six independent experiments. * $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$ (compared with DKO cells expressing the control vector); # $P < 0.05$; ## $P < 0.01$; ### $P < 0.001$ (compared with WT cells expressing the control vector).

