

Figure S1. Expression patterns of candidate genes in mice, using the TPM values obtained from Mammalian Reproductive Genetics database v2.0, the expression levels of 13 genes (*Ccdc58*, *D930020B18Rik*, *Elovl*, *Fbxw15*, *Nlrp2*, *Oas1h*, *Pkd1l2*, *Pramel34*, *Pramel47*, *Sting1*, *Tspan4*, *Tubal3*, *Zar1l*) were shown as heatmap. The expression patterns of *Foxl2* and *Zp2*, which are well known to have important role in the ovary, are also shown at the bottom).

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2
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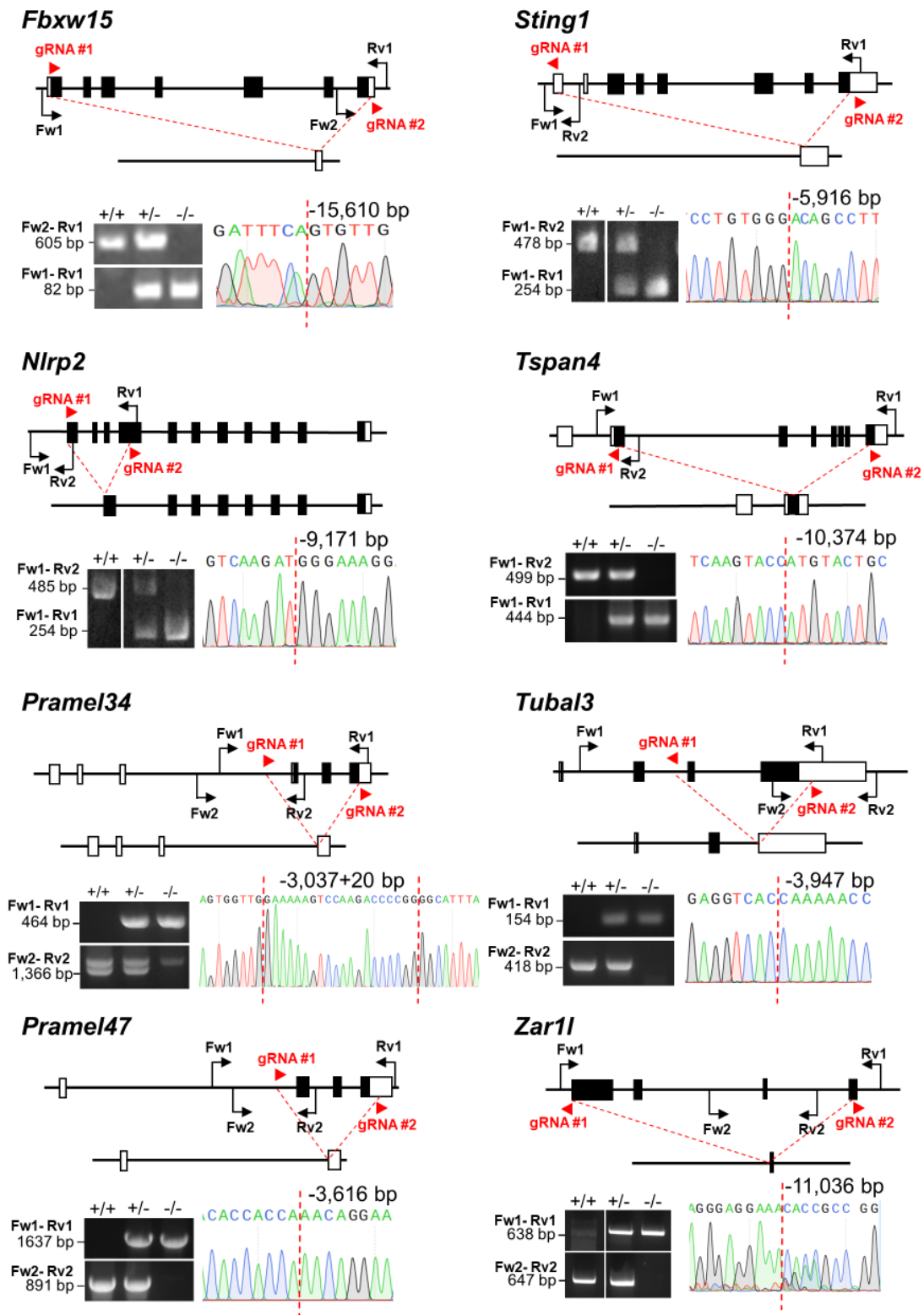


Figure S2. KO strategy, genotyping PCR and Sanger sequencing of *Fbxw15*, *Nlrp2*, *Pramel34*, *Pramel47*, *Sting1*, *Tspan4*, *Tubal3*, and *Zar1l*. Fw1/2: forward primer for the genotyping. Rv1/2: Reverse primers for the genotyping.