

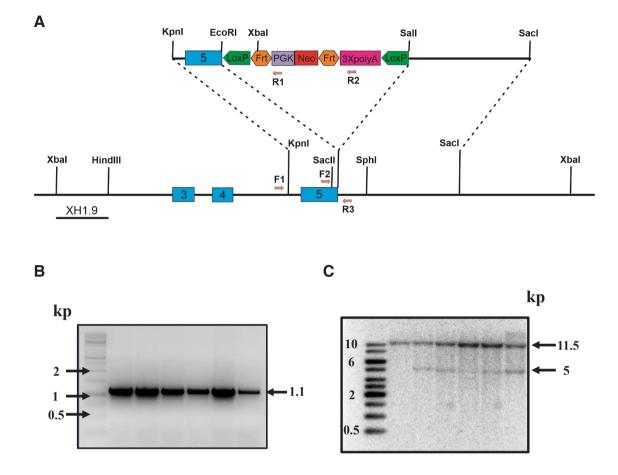
## Supplementary Material

corresponding to:

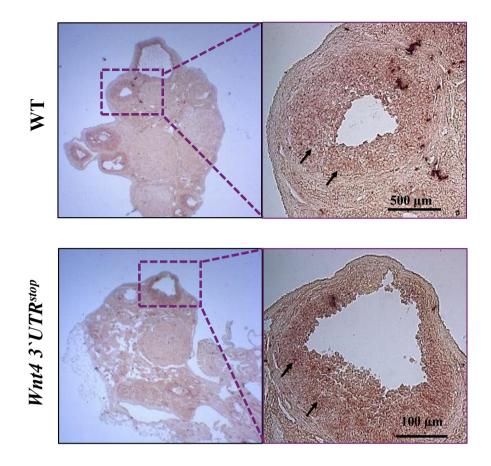
## 3<sup>UTR</sup> Stop Cassette Knock into the *Wnt4* locus increases mRNA expression and Leads to Ovarian Cyst Formation

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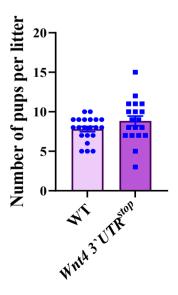
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**Suppl. Fig. 1. Schematic representation of the Wnt4 3'UTR**<sup>stop</sup> **targeting. (A)** The arms showing homology to the endogenous Wnt4, and the exchange cassette that was inserted after stop codon of the Wnt4 exon5 are indicated. **(B)**. Six putative ones out of 300 ES clones were screened by PCR using primers F1 and R1, while F1 is located upstream of the 5'-homologue arm, and R1 is located at PGK promoter region. The size of amplicon is about 1.1kb. Genotyping primers for wild type allele F2 and R2 as well as for targeted allele F2 and R3 are also indicated. **(C)** Southern blot analysis confirmed six correct targeted ES clones. Genomic DNA samples were digested with Xbal. A genomic fragment Xbal-HindIII corresponding to nucleotides 38289-40137 was used as probe. Gene targeting results in the insertion of an ectopic Xbal site at the Frt site and leads to the generation of a gene-targeted fragment of around 5 kb, while the size of the wild-type allele is around 11.5 kb in Southern blotting.



Suppl. Fig. 2. Wnt4 3'UTR<sup>stop</sup> modified allele results on activation of Wnt4 expression in ovary of two-three months old mice. Wnt4 mRNA in situ hybridization (brown color, black arrows) of three month-old WT and Wnt4 3'UTR<sup>stop</sup>; Wnt4 3'UTR<sup>stop</sup> ovaries. Scale bars = 500 and 100 µm.



Suppl. Fig. 3. Deregulated Wnt4 3'UTR does not affect male fertility. Number of pups per litter. Data are presented as means ± SEM, n=12 (WT) and n=19 (Wnt4 3'UTR<sup>stop</sup>;Wnt4 3'UTR<sup>stop</sup>).

## SUPPL. TABLE 1

## PRIMERS SEQUENCES USED FOR RT-QPCR

Gene	Primer sequence
Wnt4	F: 5'-CTGGAGAAGTGTGGCTGTGA-3'
	R: 5'-GGACGTCCACAAAGGACTGT-3'
Hsd17b1	F: 5'-TTGTTTGGGCCGCTAGAAG-3'
	R: 5'-CACCCACAGCGTTCAATTCA-3'
Hsd3b1	F: 5'-CAGGAGCAGGAGGGTTTGTG-3'
	R: 5'-GTGGCCATTCAGGACGAT-3'
Сур19	F: 5'-GCAATCCTGAAGGAGATCCA-3'
	R: 5'-CCGTCAATTACGTCATCCT-3'
Amh	F: 5'-CGCTATTTGGTGCTAACCGTG-3'
	R: 5'-CTTGCAGCTGATCGATGCTCA-3'
Amhr	F: 5'-CCCAACATCCCATCCACTT-3'
	R: 5'-GCTGAAAGGCAGTTCTCTGG-3'
Lhcgr	F: 5'-GCCCTGAGCCCTGCGACTGC-3'
	R: 5'-AAAGCGTTCCCTGGTATGGTGGTT-3'
Fshr	F: 5'-TGTCATTGCTCTAACAGGGTCT-3'
	R: 5'-TGGTGAGCACAAATCTCAGTTC-3'
GAPDH	F: 5'-AGAACATCATCCCTGCATCC-3'
	R: 5'-CAGTGAGCTTCCCGTTCAG-3'