

SUPPLEMENTAL TABLE AND FIGURE LEGENDS

Supplemental Table 1. Genes misregulated ($P < 0.01$) in the *Tg(shRxfp2)*, *Rxfp2*^{+/-} cryptorchid cremasteric sac versus the wild-type *Rxfp2*^{+/-} cremasteric sac identified using Illumina's MouseRef-8 v2.0 Expression BeadChip array.

Supplemental Fig. 1. Analysis of *Rxfp2* down-regulation by four siRNA constructs. The Hec293T cells were transfected with the psiCheck2-*Rxfp2* reporter expression construct and negative control siRNA (siNC) or siRNAs targeting *Rxfp2*. The relative expression of *Rxfp2* was calculated as a ratio of Firefly and Renilla luciferase activity. For all siRNAs, the difference versus control is significant ($P < 0.0001$).

Supplemental Fig. 2. Analysis of *Rarb-cre* expression in cremasteric sac at day P12. The expression of Cre recombinase leads to an activation of β -Gal activity of the Rosa26 allele and blue staining. The gonadal ligament (GL) and cremaster muscles of cremasteric sac (CS) demonstrate an expression of *Rarb-cre*.

Supplemental Fig. 3. Relative *Rxfp2* gene expression in cremasteric sac of control *Tg(shRxfp2)*, *Rxfp2*^{+/-} mice (red; n=4); *Tg(shRxfp2)*, *Rarb-cre*, *Rxfp2*^{+/-} mice without cryptorchidism (white; n=3) and with *Tg(shRxfp2)*, *Rarb-cre*, *Rxfp2*^{+/-} male with cryptorchidism (black; n=1).

Rosa26



Rosa26, Rarb-cre





