Supplemental Figure 1: Reproductive phenotype of pubertal NPFF1R null mice. In panel A, the age –shown as accumulated percentage- of occurrence of (BPS) in pubertal male mice of both genotypes is shown; mean age of BPS is presented in the inset. In addition, in panel B, body weight (BW) gain curves during postnatal maturation in wt and NPFF1R KO male mice are presented; BW was recorder at 5-day intervals from birth to PND-35, and daily thereafter until the occurrence of balanopreputial separation (BPS). Similar data of age of occurrence of vaginal opening (VO) and BW gain in wt and NPFF1R null female mice is presented in panels C-D. Further analyses involved the assessment of gonadal histology in pubertal mice from both genotypes. In panels E-F, representative photomicrographs of testicular sections form pubertal wt and NPFF1R mutant mice are displayed. Likewise, panels G-J show representative micrographs of follicular development and ovulatory dynamics in peri-pubertal wt and NPFF1R KO female mice. In addition, follicular development and ovulation (as indirectly reflected by the formation and age of corpora lutea) were quantitatively scored, as shown in panel K; for further details, see Materials & Methods. Legends: Sp: Spermatid; LC: Leydig cells; F: Follicle; CL: Corpus luteum; RCL: Regressing CL.
**NPFF1R Male**

A. Graph showing B.P.S. (% B.P.S.) over age (d) for NPFF1R KO vs NPFF1R WT.

B. Graph showing BW (g) over age (d) for NPFF1R WT vs NPFF1R KO.

**NPFF1R Female**

C. Graph showing V.O. (% V.O.) over age (d) for NPFF1R KO vs NPFF1R WT.

D. Graph showing BW (g) over age (d) for NPFF1R WT vs NPFF1R KO.

**Supplemental Figure 1**

E. Pubertal Testis: VIII, Sd8, Sd16, +/-.

F. Pubertal Testis: VIII, Sd8, Sd16, -/-.


I. Pubertal Ovary: Score: +1, CL1, Sd8.

J. Pubertal Ovary: Score: +5, CL1, RCL.

K. Table showing Ovulating (%) and corresponding scores for NPFF1R KO vs NPFF1R WT.