



Fig. S1. (A) Whole-mount *in situ* hybridization and (B) X-gal staining of *Tbx18*^{LacZ/+} embryo showing *Tbx18* expression in the mesenchyme ventral to the metanephric region at E11.5. (C,D) X-gal staining on sections of *Tbx18*^{LacZ/+} kidneys at E12.5 (C) and E13.5 (D). Solid arrowheads point to *Tbx18*⁺ cells in renal capsule. More *Tbx18*⁺ cells in the capsular stroma were seen in the ventral side close to the ureter (arrows). Open arrowhead in C points to *Tbx18*⁺ cells inside of the kidney. Open arrowheads in D point to *Tbx18*⁺ stroma cells in the kidney. (E-H) X-gal staining of kidney sections from *Tbx18*^{Cre/+};R26R^{LacZ/+} showing *Tbx18*⁺ lineage in the mesenchyme ventral to the kidney at E11.5 and E12.5 and in the ureteral mesenchyme. *Tbx18*⁺ lineage was also detected in the pelvic region and renal capsule. Abb.: k, kidney; mm, metanephric mesenchyme; ub, ureteric bud; ur, ureter. Scale bar: 100 μ m for A-C and E-H and 200 μ m for D.