



Supplementary Figure S11 Embryonic kidney epithelium forms branched tubular structures in organoid culture. **(A)** Ureteric buds isolated from E12 mouse kidneys were cultured with FGF1/GDNF/R-spondin1, GDNF/R-spondin1 (-FGF), FGF1/ R-spondin1 (-GDNF), or FGF1/GDNF (-R-spondin1) for 7 days in 3D Matrigel. Ureteric buds were stained with anti-E-cadherin antibody and phalloidin (stacking image). White boxes show enlarged images. **(B)** Ureteric buds isolated from E12 mouse kidneys were cultured in 3D Matrigel for 5 days. Ureteric buds were stained with anti-YAP/TAZ, anti-Ki67, and anti- β -catenin antibodies and DRAQ5. Scale bars in **(A)**, 200 μ m; in **(B)**, 100 μ m (upper panels) and 20 μ m (lower panels).