## Supplementary Materials

Title: Characterization of kidney and skeleton phenotypes of mice double-heterozygous for Foxc1 and Foxc2

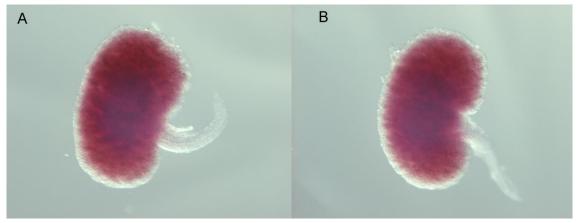
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## Supplementary Figures

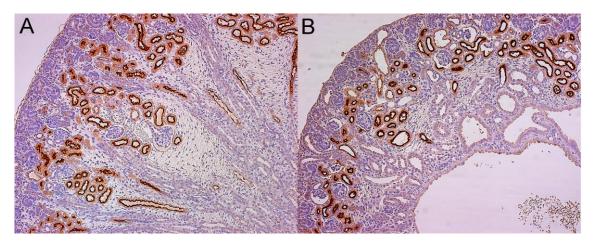
Figure S1. Expression of BMP4



Expression of BMP4 mRNA in E15.5 kidneys was detected by *in situ* hybridization. Expression pattern of BMP4 in kidneys of double heterozygotes (B) is similar to that in kidneys of wild type mice (A).

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Figure S2. Development of proximal tubules



Development of proximal tubules in kidneys of P0 mice was examined by megalin immunostaining. Development of proximal tubules is not affected in kidneys of double heterozygotes. Ectopically formed kidney of a double heterozygote with hydronephrosis and glomerular cysts (B) is compared with a kidney of its littermate wild type mouse (A).

## Supplemental Methods

Wholemmount kidney in situ hybridization was performed according to a method described in the Gudmap protocols [McMahon group, <a href="http://www.gudmap.org/Research/Protocols/index.html">http://www.gudmap.org/Research/Protocols/index.html</a>] using a BMP4 probe kindly provided by Dr. Miyazaki[Ueda et al., 2008].

Megalin immunostaining was performed as described previously [Komaki et al, CTO 2013].