



Figure S1. $Osr1^{c/-};Six2-TGC^{tg}$ mutant mouse embryos exhibit premature differentiation of the cap mesenchyme cells during kidney organogenesis. (A, B) Histology sections of E13.5 $Osr1^{c/+};Six2-TGC^{tg}$ control (A) and $Osr1^{c/-};Six2-TGC^{tg}$ mutant (B) kidneys. Arrowhead in A points to the cap mesenchyme surrounding the tip of the ureteric bud. Arrows in B point to aberrant cap mesenchyme aggregates distal or cortical to the ureteric buds. Scale bar, 100 μ m.

Table S1. Primers used for real time qPCR

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| Osr1F | GAAGCGTCAGAAGTCTAGTCG |
| Osr1R | TTCACTGCCTGAAGGAAAGAG |
| Six2F | CGAGCACCTCCACAAGAATGA |
| Six2R | AACTGGTGGCTCTCCAGGATT |
| Cited1F | TCTTCCAAACCCCCATCCTT |
| Cited1R | TTTTGCATGGGCTCTCCTC |
| GdnfF | GTCCAAC TG GGGTCTACG |
| GdnfR | AGCAACACCAGGCAGACAG |
| Eya1F | CACCCAGACAAGGTTCATTC |
| Eya1R | TCCCATCACCCCTCTAGGTTATG |
| Wt1F | ATCTGAAGACCCACACCAGG |
| Wt1R | GCTGAAGGGCTTTCACTTG |
| Pax2F | AAGCGACAGAACCCGACTATGT |
| Pax2R | ACTCCTGTCCCTGCCCAT |
| Wnt4F | AGCTGTCATCGGTGGCAGCAT |
| Wnt4R | ACTGTCCGGTCACAGCCACACT |
| Fgf8F | CATGGCAGAAGACGGAGAC |
| Fgf8R | ACTCGGACTCTGCTTCCAAA |
| Lhx1F | CAACCTGACCGAGAAGTGCTT |
| Lhx1R | CGCATTGGTACCGAAACATC |
| Pax8F | CAGAAGGC GTTGTGACAATGA |
| Pax8R | TGCAC TTTGGTCCGGATGAT |
| Sfrp2F | CCAAGAATGAGGACGACAACG |
| Sfrp2-R | TGAGCCACAGCACGGATT |
| β-actinF | GAGAAGATCTGGCACCA CACC |
| β-actinR | GCATACAGGGACAGCACAGC |