Supplemental Data

1. Induction of RDH9 expression in PODRDH9 mice.

Figure 1. Induction of RDH9 expression in PODRDH9 mice: A. Western blots of RDH9 expression in kidney cortex and other organs after 4 weeks of DOX or vehicle feeding. B. Western blots of RDH9 expression in isolated glomeruli after 4 weeks of doxycycline feeding. The representative blots are shown. C. Quantitative real-time PCR for RDH9 mRNA expression in isolated glomeruli was performed (* P< 0.05 compared with vehicle group, n=3).
2. Doxycycline had no effect on the expression of podocyte differentiation markers in POD\textsuperscript{RDH9} mice.

**Figure 2. Expression of Podocyte differentiation markers: A:** Immunofluorescence staining for nephrin (red) and synaptopodin (green). Nuclei are labeled by 4’6-diamidino-2-phenylindole (DAPI) (blue). **B:** Quantitative real-time PCR was performed to assess mRNA levels for nephrin, podocin and synaptopodin (n=4).