Supplementary Figure 2: Generation of transgenic mouse lines

(a) Generation of podocyte-specific Vhlh knockout mice.

Podocin-Cre mice were bred to mice homozygous for a floxed Vhlh allele. Cre-mediated excision leads to loss of the promoter and 1st exon of Vhlh leading to a null allele.

(b) Genotypic analysis.

The Cre transgene was detected by PCR analysis; the Cre transgene from positive mice produce a band that measures approximately 300-bp. The Vhlh floxed allele was detected by PCR analysis; the wildtype allele measures 915-bp and the floxed allele measures 945-bp.

* indicates homozygous for the floxed allele (Vhlh^floxflox).

(c) Generation of a podocyte-selective Cxcr4 transgene. A 2.5-kb full length coding cDNA for Cxcr4 was subcloned downstream of the podocyte-selective 4.125-kb murine nephrin (Nphs1) promoter. PA = polyA

(d) Genotypic analysis.

The Cxcr4 transgene was detected by PCR analysis and measures 281-bp.