

Supp Figure 1

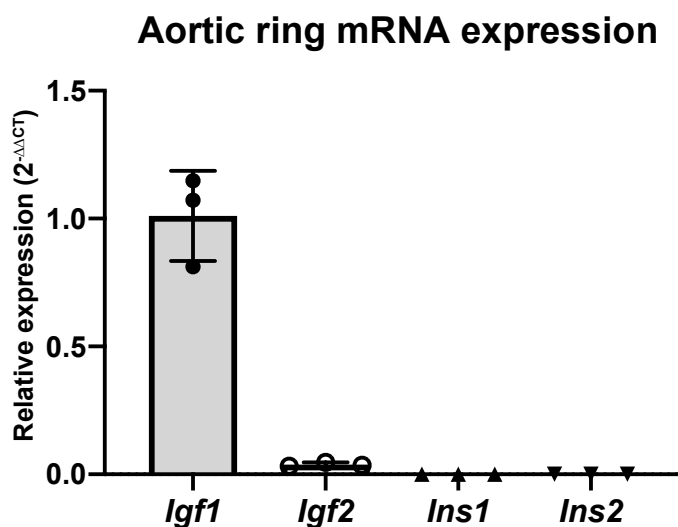


Figure S1:

mRNA expression of *Igf* and *Insulin* in aortic ring tissue.

Quantitative RT-PCR for *Igf1*, *Igf2*, *Ins1* and *Ins2* mRNA in aortic ring tissue. Graph represents relative concentrations of mRNAs calculated using the delta-delta CT method. mRNA levels for each gene were first normalised to *GAPDH* expression (ΔCT). Relative levels for each gene were then expressed relative to the level of *Igf1* ($\Delta\Delta CT$). Fold change relative to *Igf1* was calculated with the equation $2^{-\Delta\Delta CT}$. Primer sets were independently validated in additional tissue samples (E14.5 whole embryo lysate) as a positive control.

Supp Figure 2

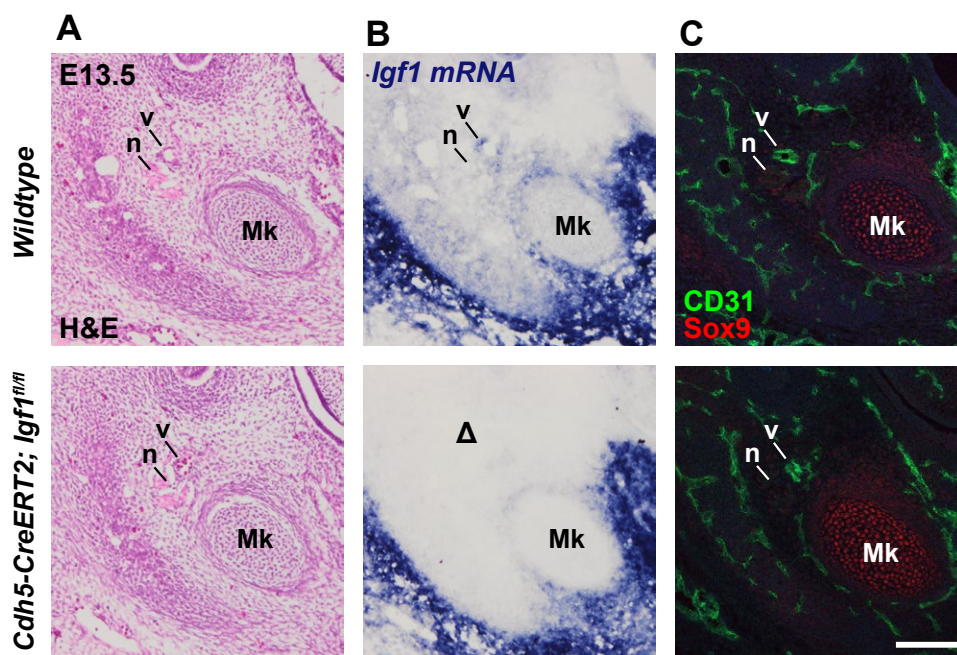


Figure S2:

Igf1 expression is reduced in *Cdh5-CreERT2; Igf1^{fl/fl}* embryos.

A: Frontal sections through the mandible of E13.5 wildtype and *Cdh5-CreERT2; Igf1^{fl/fl}* embryos stained for Haematoxylin and Eosin. Mk, Meckel's cartilage; n, nerve; v, mandibular vessel. **B:** Serial section with *in situ* hybridisation for *Igf1* mRNA. *Igf1* is reduced in expression around the mandibular vessel region (Δ) of *Cdh5-CreERT2; Igf1^{fl/fl}* embryos. **C:** Serial section immunostained for CD31 and Sox9. Scale bar = 100μm.

Supp Figure 3

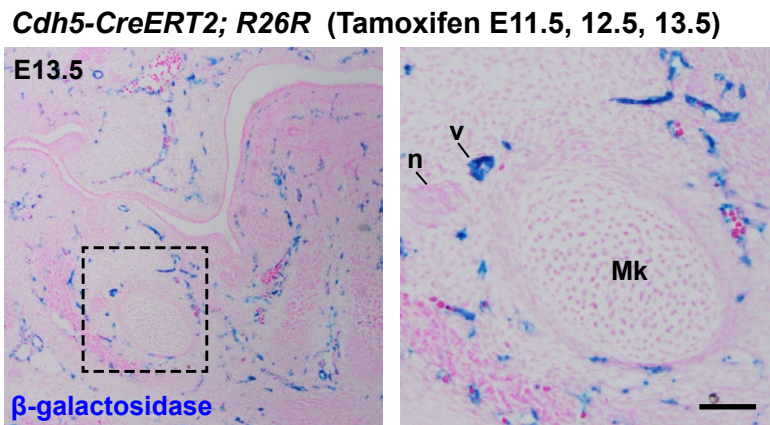


Figure S3:

Tamoxifen injection induces genetic recombination in the mandibular blood vasculature. Frontal section through the mandible of E13.5 *Cdh5-CreERT2; R26R* embryo, with tamoxifen injection at E11.5, E12.5 and E13.5 to induce *LacZ* reporter gene recombination. Tissue section has been stained with X-gal to show areas of β -galactosidase activity. β -galactosidase reporter gene expression is restricted to the vasculature, including the mandibular vessel (v). Mk, Meckel's cartilage; n, nerve. Scale bar = 50 μ m.