Supplementary information, Figure S1

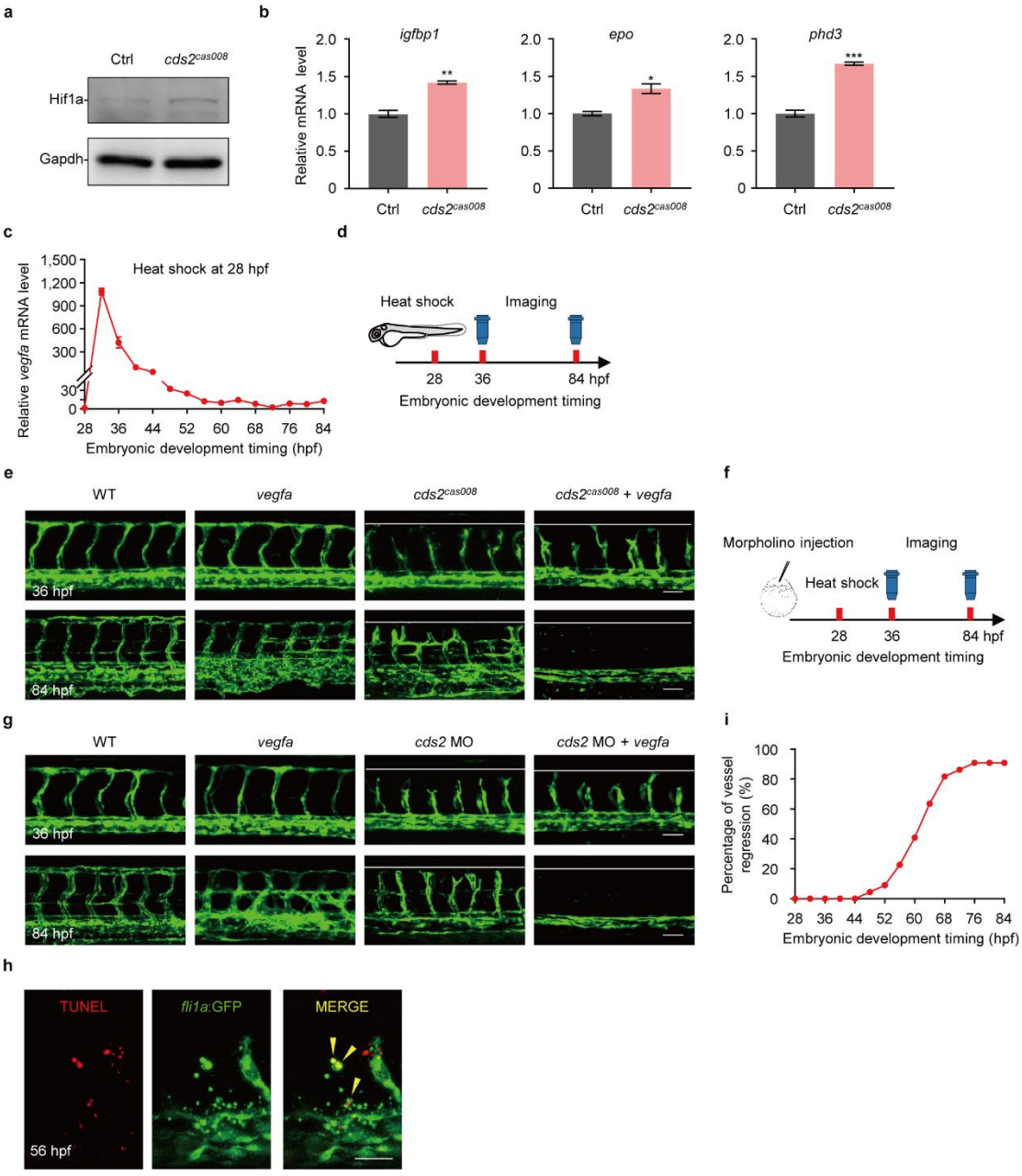

Fig. S1. VEGFA induces vessel regression in zebrafish *cds2* mutants. (a, **b)** Western blotting analysis of Hif1a protein level (**a**) and relative expression of Hif target genes (**b**) in WT and *cds2* mutant embryos (severe phenotype) at 36 hpf. *n* = 3 samples, 3-5 embryos pooled for each sample (**b**). **(c)** Relative *vegfa* expression at different time points after heatshock at 28 hpf. *vegfa* level was normalized to wild type embryos in the same experimental conditions. *n* = 3 samples per point, 10 embryos pooled for each sample. **(d)** Model of timing for heatshock induction and confocal imaging analysis in (Fig. S1**e**). **(e)** Confocal images of trunk vessels in WT and *cds2* mutant under *Tg(fli1a:eGFP)* background, with or without *vegfa* overexpression (OE) at 36 hpf and 84 hpf. *vegfa* OE was induced by heat shock at 28 hpf in *Tg(hsp:vegfaa)* background. **(f)** Model of timing for morpholino injection (MI), heatshock induction and confocal imaging analysis in (Fig. S1**g**). **(g)** Confocal images of trunk vessels in WT and *cds2* MO-injected embryos with or w/o *vegfa* OE under *Tg(fli1a:eGFP)* background. **(h)** Representative confocal images of TUNEL staining in 56 hpf *cds2* mutants with *vegfa* OE during vessel regression. **(i)** Time-lapse phenotype analysis of vessel regression in *cds2* morphants with *vegfa* OE. *n* = 300 ISVs counted from 30 embryos per group.Scale bars, 50 μm (**c** and **e**; 36 hpf), 70 μm (**c** and **e**; 84 hpf) and 25 μm (**h**). Error bars, mean ± SEM. **P* < 0.05; ***P* < 0.01; ****P* < 0.001.