



Supplementary Figure 4. Molecular programs from primitive vascular ECs to HSC-primed HECs. a. Embryo, independent experiment, and cell number information for additional scRNA-seg. sp, somite pairs. b. t-SNE plots with clusters (upper left), sampling locations (lower left), embryonic stages (upper right) and clusters previously defined (lower right) mapped onto it. c. Dot plot showing the average and percentage expression of selected marker genes in the indicated clusters. d. Pseudotemporal ordering of the cells involved in HEC specification, including those in pEC, pAEC, earlyAEC, HEC, and T1 pre-HSC, inferred by monocle 2, with pseudotime mapped to it. e. Heatmap showing smoothed and scaled expression levels of 2 851 pattern genes. Genes are ordered by patterns. Cells are ordered by pseudotime. f. Dot plot showing the top six enriched Gene Ontology biological process (GO:BP) terms for each pattern. Dot color indicates statistical significance of the enrichment and dot size represents the fraction of genes annotated to each term. g. Scatter plots showing the expression levels of the TF genes previously reported to be functional in HSPC regeneration along the pseudotemporal order with loess smoothed fit curves and 95% confidence interval indicated. The patterns to which the genes belong are indicated by different fill colors. The core TFs of the significantly overlapped regulons are underlined.