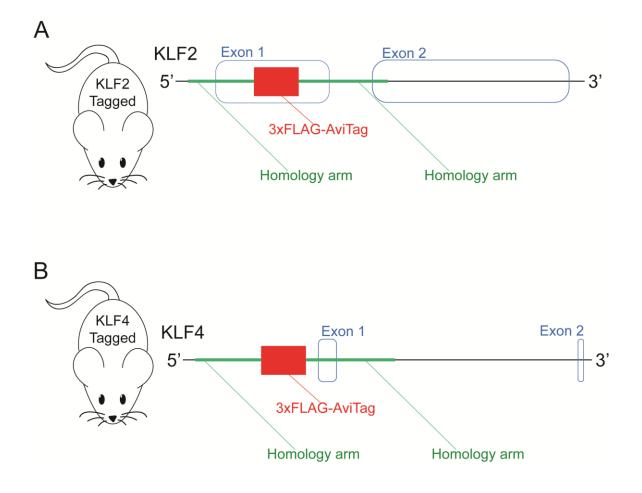
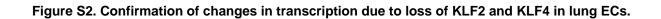
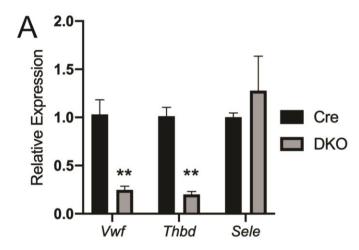
SUPPLEMENTAL MATERIAL

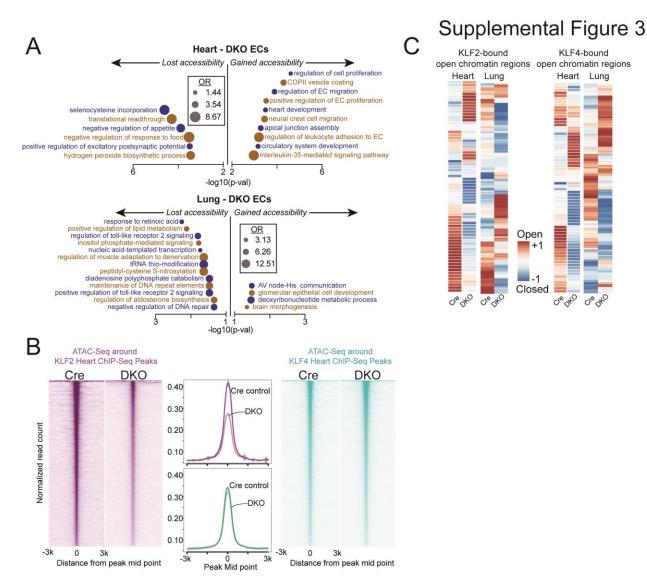




(A) Depiction of 3xFLAG-AviTag cassette insertion into the endogenous KLF2 locus. (B) Depiction of 3xFLAG-AviTag cassette insertion into the endogenous KLF4 locus.







Supplemental Figure 3: Endothelial KLFs increase chromatin accessibility with factor-specific bias.
(A) Gene ontology biological process (GO BP) for regions with gained/lost accessibility in heart and lung DKO ECs. Node size corresponds to odds ratio (OR) of computed mean rank of geneset compared to those of several random genesets (EnrichR). (B) Heatmap of ATAC-seq reads from Cre and DKO plotted with respect to corresponding ChIP-seq peak midpoints in heart (KLF2 in magenta, KLF4 in teal). Composite plots quantify the occupancy (reads) in a ±3kb window from peak midpoints.
(C) Heatmaps showing KLF2- and KLF4-bound open (red) and closed (blue) regions in Cre compared to DKO in heart and lung ECs.

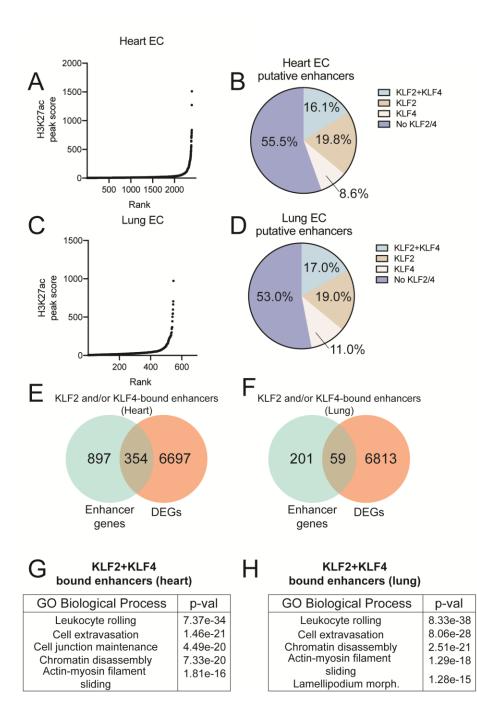


Figure S4. Comparative assessment of heart and lung EC enhancers.

(A, C) Hockey stick plot depicting called putative enhancer peaks in heart and lung ECs (from Cre mice). (B,D) Proportion of heart/lung enhancers bound by KLF2, KLF4, or KLF2+KLF4. (E) Differential expression of genes associated with enhancers with KLF2 and/or KLF4 bound in heart and (F) lung. These represent any enhancer with at least one of these two factors present. (G) Functional enrichment of gene ontology (GO) biological process terms of genes associated with KLF2+KLF4-bound enhancers in heart and (H) lung.