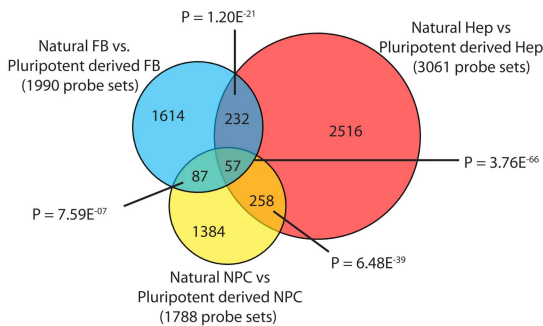
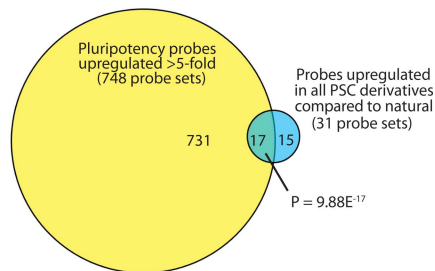


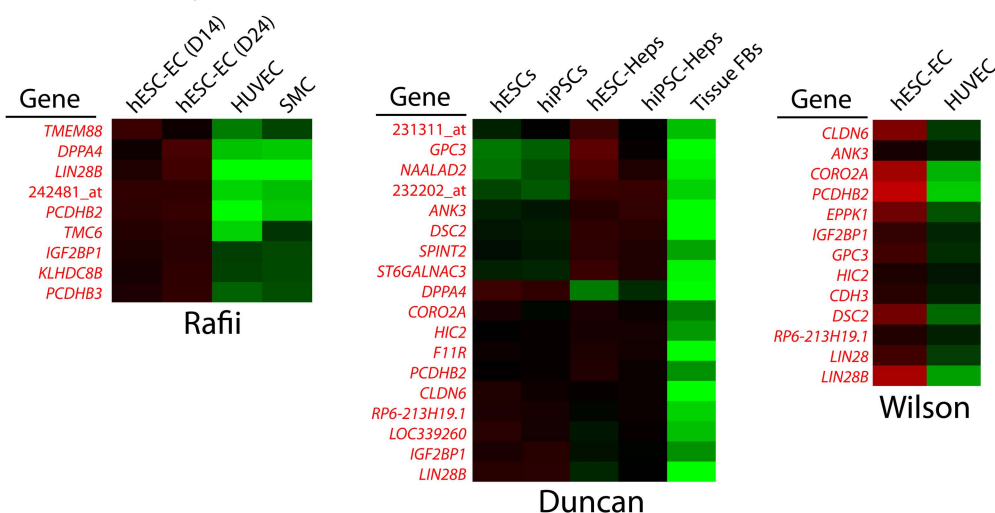
A



B



C



D

Go Terms: Biological Processes

NPC

homophilic cell adhesion;
nervous system development;
 developmental process;
 calcium-dependent cell-cell
 adhesion

Hep

nervous system development; oxidation reduction; acute inflammatory response;
 metabolic process; cofactor metabolic process; cellular lipid metabolic process;
 regulation of RNA metabolic process; regulation of nucleobase, nucleoside,
 nucleotide; regulation of transcription, DNA-dependent; regulation of transcription;
 aromatic compound metabolic process; regulation of gene expression; biphenyl
 metabolic process; bilirubin conjugation; humoral immune response mediated
 circulating immunoglobulin; activation of plasma proteins during acute
 inflammatory response; complement activation, classical pathway; complement
 activation; lipid metabolic process; regulation of macromolecule biosynthetic
 process; tetrapyrrole catabolic process; porphyrin catabolic process; cellular
 metabolic process; regulation of biosynthetic process; transcription; regulation of
 cellular metabolic process; benzene and derivative metabolic process; negative
 regulation of biosynthetic process; heterocycle metabolic process; regulation of
 metabolic process; steroid metabolic process; negative regulation of gene
 expression; biosynthetic process; negative regulation of transcription; negative
 regulation of nucleobase, nucleoside, nucleotide; regulation of macromolecule
 metabolic process; tetrapyrrole metabolic process; porphyrin metabolic process

FB

homophilic cell adhesion; cell-cell
 adhesion

Figure S2 Gene expression differences between PSC and tissue derivatives are conserved regardless of statistical analyses employed or lab. **A and B**, A similar analysis as shown in Figure 3A and B, but instead using FDR ($p \leq 0.05$) and fold change ≥ 1.54 as criteria to determine genes that were differentially expressed. **C**, The same analysis shown in Figure 3C was performed with 3 outside datasets. Outside data sets included: GSE19735 (Rafii), comparing hESC-derived endothelial cell (EC) to human umbilical vein endothelial cells (HUVEC) and human smooth muscle cells (SMC); GSE14897 (Duncan), comparing undifferentiated hESCs and hiPSCs to hepatocytes made from each; and GSE20013 (Wilson), comparing endothelial cells made from hESCs to endothelial cells made from tissue (HUVEC). **D**, Gene Ontology Biological Processes terms identified as different between PSC derivatives and their natural counterparts ($p < 0.01$). Underlined terms were identified in 2 of 3 germ layers. Note: no term was identified in all three germ layers.