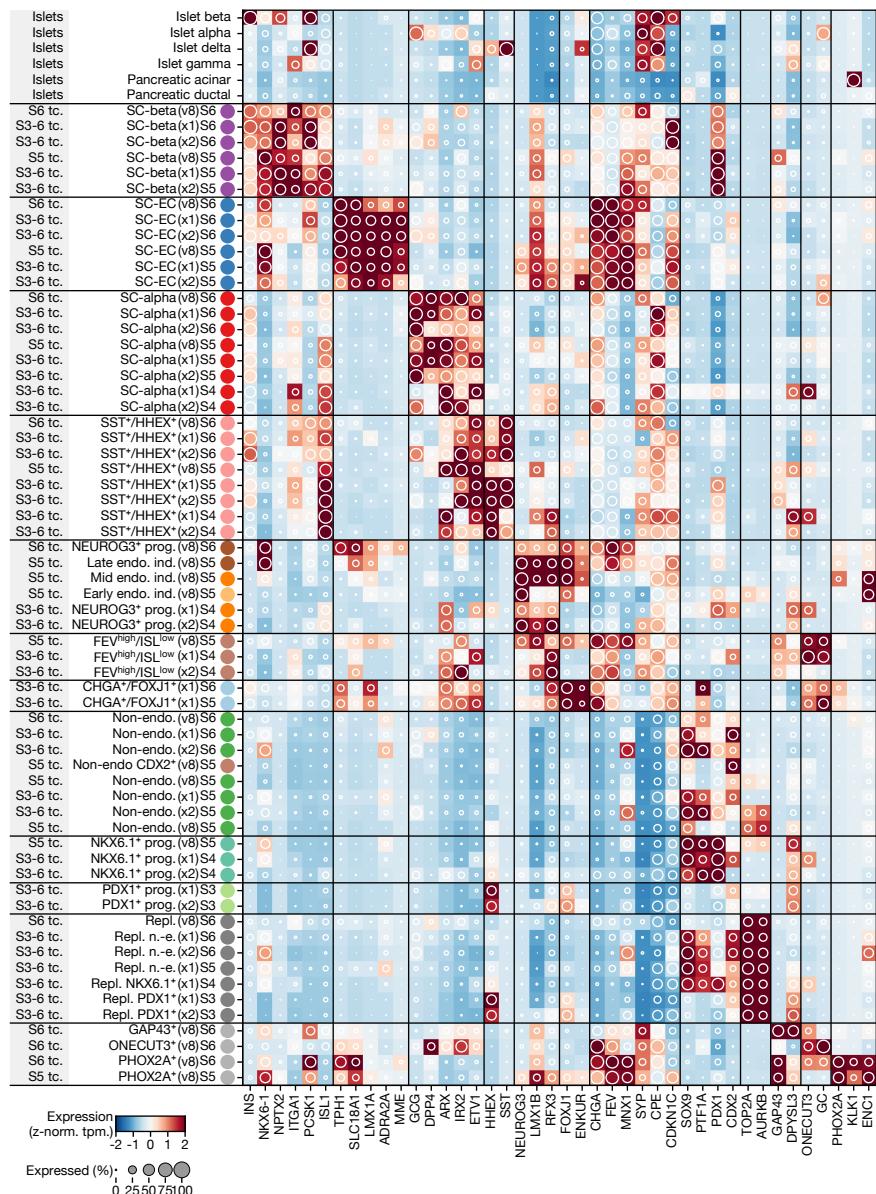
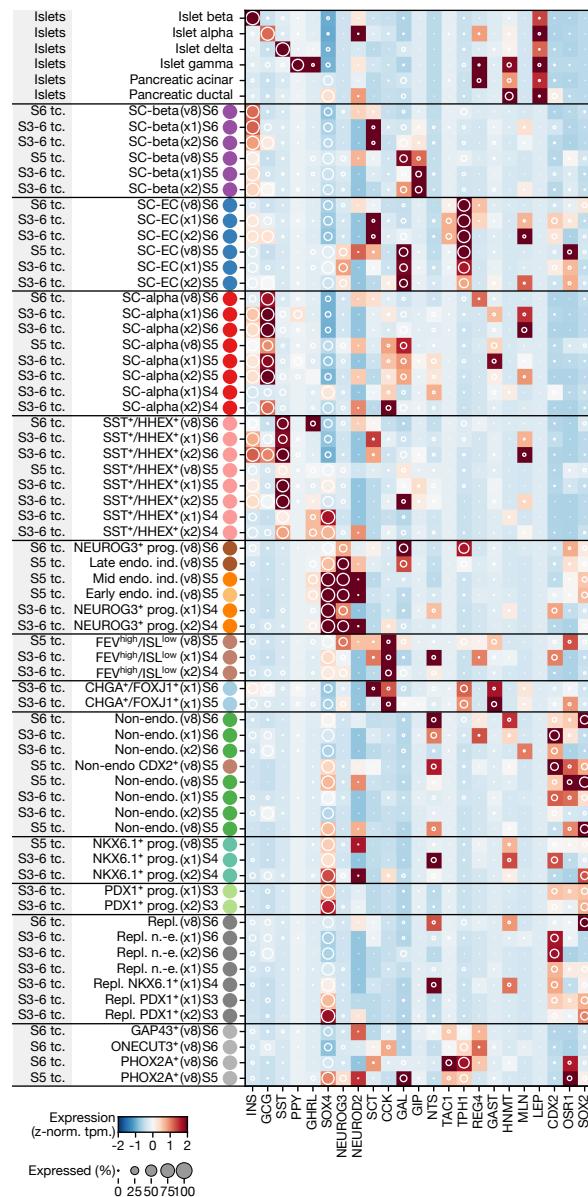


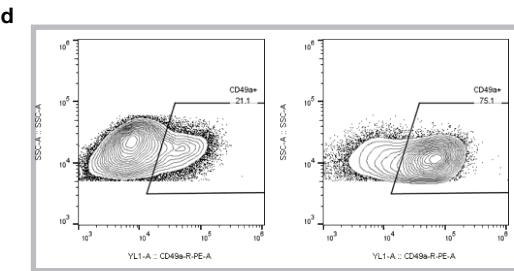
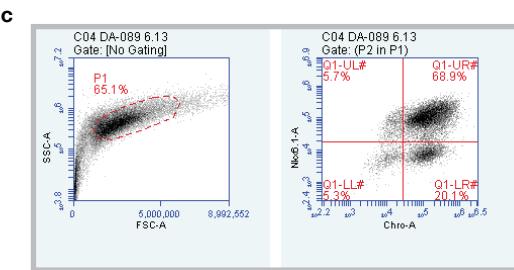
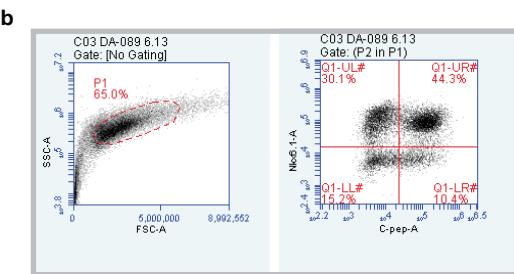
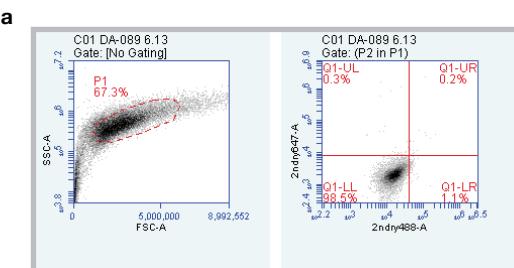
Supplementary Figure 1



Supplementary Figure 2



Supplementary Figure 3



Supplementary Table 2

	Purpose	Cells used	Cells sequenced	Data presented in
Stages 3-6 time course	<ul style="list-style-type: none"> Identify populations in each stage Compare two protocol variants 	2 differentiations HUES8, protocol x1 HUES8, protocol x2	42,097 cells from 16 libraries inDrops v2 (Harvard Single Cell core)	Figure 1; Extended Data Figure 1
Stage 6 weekly time course	<ul style="list-style-type: none"> Track long-term gene expression changes after differentiation 	3 differentiations HUES8, protocol v8	38,494 cells from 36 libraries inDrops v2 (1Cell Bio)	Figures 2, 3, 4; Extended Data Figures 3,4,6;
Stage 5 daily time course	<ul style="list-style-type: none"> Establish lineage map of endocrine induction during Stage 5 	2 differentiations HUES8, protocol v8	51,274 cells from 32 libraries inDrops v2 (1Cell Bio)	Figure 5; Extended Data Figure 8
hESC vs hiPSC comparison	<ul style="list-style-type: none"> Compare cell populations produced by different pluripotent stem cell lines 	3 differentiations HUES8, protocol v4 HUES8, protocol x3 iPS1016/31, protocol v4	4,312 cells from 6 libraries inDrops v3 (Harvard Single Cell core)	Extended Data Figure 1
Re-aggregation analysis	<ul style="list-style-type: none"> Identify which populations are retained by re-aggregation 	1 differentiation HUES8, protocol v4 processed into two conditions at the end of Stage 5: - native, in MCDB131 - RA, in MCBD131	5,636 cells from 4 libraries inDrops v3 (Harvard Single Cell core)	Extended Data Figure 7