

**Supplementary Table 1.** List of antibodies used for immunofluorescence staining

	Antibodies	Catalog#	Dilution
Unconjugated primary antibodies	Insulin	Invitrogen (#PA1-26938)	1:100
	PDX1	Abcam (#ab47267)	1:100
	NKX6.1	Cell Signaling (#54551)	1:2,000
Conjugated secondary antibodies	Fluorescein (FITC) AffiniPure donkey anti-guinea pig IgG (H+L)	Jackson ImmunoResearch (#706-095-148)	1:1,000
	Cy3 AffiniPure donkey anti-rabbit IgG (H+L)	Jackson ImmunoResearch (#711-165-152)	1:1,000
	DAPI (4', 6-diamidino-2-phenylindole, dihydrochloride)	Invitrogen (#D1306)	14.3 mM 1:5,000

PDX1, pancreatic and duodenal homeobox 1; NKX6.1, NK6 homeobox 1; IgG, immunoglobulin G; H + L, heavy chain + light chain.

**Supplementary Table 2.** Primer sequences for polymerase chain reaction

Symbol	Gene of interest		Primer sequences (5' → 3')
		Full name	
<i>Ins1</i>		Preproinsulin 1	F: GGG AGC GTG GCT TCT TCT AC R: TAG AGG GAG CAG ATG CTG GT
<i>Ins2</i>		Preproinsulin 2	F: TCA AGC AGC ACC TTT GTG GTT R: CCT CCA GTG CCA AGG TCT GA
<i>Gfp</i>		Green fluorescent protein	F: AGT GCT TCA GCC GCT ACC R: GAA GAT GGT GCG CTC CTG
<i>Gapdh</i>		Glyceraldehyde 3-phosphate dehydrogenase	F: AGG TCG GTG TGA ACG GAT TTG R: TGT AGA CCA TGT AGT TGA GGT CA

F, forward primer; R, reverse primer.