

Table S1. Characteristics of donors of human pancreas, islet and acinar cell samples, Related to Figure 1-6. ND: non-diabetic; T2D: type 2 diabetes; nPOD: network for Pancreatic Organ Donors with Diabetes; BMI: body mass index. HbA1c: glycated hemoglobin.

Human pancreas							
Disease state	nPOD ID	Age (y)	Gender	Ethnicity	BMI (kg/m ²)	C-Peptide (pmol/L)	Duration of T2D (y)
Non-diabetic (ND)	6009	45	M	Caucasian	30.6	11.32	N/A
	6034	32	F	Caucasian	25.2	3.15	N/A
	6168	51	M	Hispanic	25.2	N/A	N/A
	6331	27	F	African American	24.0	3.01	N/A
	6487	27	M	African American	27.8	5.52	N/A
	6535	31	F	Caucasian	29.6	6.59	N/A
Type 2 diabetic (T2D)	6110	20.7	F	African American	40	0.58	N/D
	6133	46	F	Caucasian	40.2	0.84	20
	6194	47	M	Caucasian	23.7	0.16	13
	6221	61	F	Caucasian	33.7	3.05	4
	6277	48	M	African American	29.5	0.47	10
	6329	49	F	Hispanic	36.4	7.46	25
	6541	57	M	Hispanic	26.9	3.41	1

Human islets									
Application	Disease state	RIID or Prodo ID	Age (y)	Gender	Ethnicity	BMI (kg/m ²)	HbA1c (%)	Purity (%)	Viability (%)
RT-PCR	ND	SAMN08612554	51	F	Hispanic	32	5.3	90	90
		SAMN08619388	60	F	African American	18.2	6.0	80	87
		SAMN08930760	45	M	Caucasian	30.5	5.0	90	96
		SAMN08769124	15	M	Hispanic	24.6	5.1	80	97
		SAMN0876908	49	M	Caucasian	26.3	5.1	95	95
	T2D	HP-18165-01T2D	63	M	Hispanic	22	7.3	85	95
		SAMN10832912	54	M	African American	33.7	8.0	90	94
		SAMN11245238	66	F	Caucasian	29.8	6.5	90	95
		SAMN08769092	57	M	Hispanic	34.6	10.4	98	80
		SAMN08930811	47	M	Caucasian	32.2	5.7	70	63
		SAMN08933946	52	M	Caucasian	50.0	N/A	92	99
		SAMN08786217	49	M	N/A	28.2	N/A	90	95
WB	ND	SAMN08769072	55	M	Caucasian	32.5	14.7	96	73
		SAMN08611211	45	M	Caucasian	29.8	5.1	95	95
		SAMN08619527	28	M	Caucasian	34.7	4.2	95	95
		SAMN15942269	63	F	African American	26.9	5.5	80	98
		SAMN13972304	49	M	Latino	34.8	5.5	90	96
	T2D	HP-17036-01	59	M	Caucasian	26.9	5.8	90	90
		HP-20199-01	21	M	Hispanic	27.3	5.3	90	95
		HP-18103-01T2D	35	F	Hispanic	34	7.1	85	95
		SAMN09498258	54	M	Hispanic	23.6	5.8	83	96
		SAMN11157311	34	F	Caucasian	31.7	7.3	92	92
		SAMN08786337	53	M	N/A	31	N/A	60	96
IHC	ND	SAMN08769092	See above						
		SAMN08768765	65	F	Caucasian	42.6	5.9	95	95
		SAMN08768991	51	M	Caucasian	29	5.1	85	95
		SAMN08611141	48	M	Hispanic	32.4	5.6	95	95
		SAMN08611143	32	M	Caucasian	26.2	5.3	85	98
		HP-18054-01	40	M	Hispanic	25	5.3	95	95
		HP-18304-01	21	M	Hispanic	27.3	5.4	85	95
		HP-18310-01	38	M	Hispanic	28	5.9	90	95

Transplantations	ND	SAMN12227196	51	M	Caucasian	32.8	4.9	95	95
		HP-19226-01	51	M	Caucasian	31.3	5.2	95	95
		HP-19073-01	50	M	Caucasian	21.2	5.5	90	95
		SAMN13836615	58	M	Hispanic	23.2	5.7	90	95
		HP-20030-01	67	M	Hispanic	22.5	5.5	90	95
		HP-20191-01	39	F	Caucasian	21.9	5.6	95	95
Phospho-antibody microarrays	ND	HP-20199-01	21	M	Hispanic	27.3	5.1	95	95
		SAMN09768368	56	F	Caucasian	26.6	N/A	90	90
		HP-18336-01	61	F	Caucasian	24.5	5.1	90	95
scRNA-seq	ND	HP-18341-01	48	M	Caucasian	26.3	5.1	90	95
		SAMN10079665	25	M	Caucasian	31	5.0	95	98
		HP-19073-01	<i>See above</i>						
WB (signaling pathways)	ND	HP-19102-01	40	F	Hispanic	31.8	4.8	95	95
		HP-19283-01	43	F	Caucasian	31.7	5.7	90	95
		HP-18196-01	49	M	Hispanic	30.3	5.8	85	95
		SAMN13186657	44	F	Hispanic	24.1	5.8	90	95
		SAMN09768368	56	F	Caucasian	26.6	N/A	90	90
		SAMN09228907	62	M	African American	36.1	5.8	90	95
Viability assays following PAR2 inhibition	ND	HP-21132-01	31	M	Caucasian	26.6	5.2	90	95
		HP-21146-01	39	M	Caucasian	27.6	5.5	85	95
		HP-21148-01	19	M	N/A	23.1	5.8	95	95
		HP-21161-01	43	M	Hispanic	25.5	5.4	90	95
		SAMN29794444	45	M	Caucasian	24.8	5.3	90	96
		HP-22294-02	36	M	Caucasian	24.4	5.7	90	95

Human acinar cells

Application	Disease state	Prodo ID	Age (y)	Gender	Ethnicity	BMI (kg/m ²)	HbA1c (%)
RT-PCR	ND	HP-18336-01	<i>See above</i>				
		HP-18132-01	45	M	Hispanic	25	5.1
		HP-18144-01	47	M	N/A	28.1	5.8
	T2D	HP-18165-01T2D	<i>See above</i>				
		HP-18179-01T2D	59	F	Asian	34	6.7
		HP-20259-01T2D	59	M	Hispanic	25.1	7.3
WB	ND	HP-20268-01	55	M	Hispanic	23	4.7
		HP-19030-01	25	M	Hispanic	27.3	5.2
		HP-18132-01	<i>See above</i>				
		HP-17346-01	27	M	Native American	25.8	5.6
	T2D	HP-18179-01T2D	<i>See above</i>				
		HP-18320-01T2D	61	M	African American	27.4	7.1
		HP-18165-01T2D	<i>See above</i>				
		HP-20259-01T2D	59	M	Hispanic	25.1	7.3

Human ductal cells

Application	Disease state	Prodo ID	Age (y)	Gender	Ethnicity	BMI (kg/m ²)	HbA1c (%)
RT-PCR	ND	HP-20296-01	47	M	Caucasian	35.3	5.5
		HP-21035-01	65	F	Caucasian	25.2	5.2
		HP-22021-01	52	F	African American	23.2	5.5