

**Extended Data Table 1**  
Human donor information

Date of cell purification	Internal ID	Islet isolation center	RRID	Unique identifier	Age	Gender	BMI	HbA1c (%)	Cause of death
02/03/2022	Can-11	University of Alberta	SAMN26419385	R434	50	Female	24,2	5,70	n.d
04/05/2022	Can-12	University of Alberta	SAMN28034084	R443	25	Female	23	5,10	Head Trauma
08/08/2022	Gen-1	Geneva University Hospital	n.d	HI-37	46	Male	24,9	n.d	n.d
18/03/2022	IIDP-58	IIDP	SAMN26646319		20	Male	20,5	4,60	Head Trauma
22/07/2022	Can-13	University of Alberta	n.d.	R451	56	Female	24	6,00	n.d
22/07/2022	IIDP-60	IIDP	SAMN29794444		45	Male	24,8	5,30	Cerebrovascular/stroke
12/08/2022	IIDP-61	IIDP	SAMN30181459		38	Male	28,8	6,10	Head Trauma
11/11/2022	IIDP-63	IIDP	SAMN31618442		34	Male	25,8	5,00	Head Trauma
16/12/2022	IIDP-64	IIDP	SAMN32119553		40	Female	32,9	5,70	Anoxia
15/11/2022	Can-14	University of Alberta	SAMN31717214	R464	60	Male	27,7	5,30	n.d.
06/04/2023	IIDP-70	IIDP	SAMN34033792		39	Female	33,4	5,00	Head Trauma
28/07/2023	IIDP-73	IIDP	SAMN36510137		63	Male	32,1	6,10	Anoxia
17/10/2023	IIDP-75	IIDP	SAMN37735327		54	Female	23,3	5,60	Anoxia
11/01/2024	IIDP-77	IIDP	SAMN39281578		44	Male	19,7	5,10	Cardiovascular
15/08/2024	Gen-7	Geneva University Hospital	n.d	HI-57	58	Female	28,3	n.d	Cerebrovascular/stroke
25/09/2024	IIDP-93	IIDP	SAMN43879233		63	Male	19,4	5,50	Head Trauma
24/10/2024	IIDP-95	IIDP	SAMN44269935		29	Male	26,5	5,40	Cerebrovascular/stroke
24/10/2024	IIDP-96	IIDP	SAMN44337332		31	Female	16,3	6,00	Anoxia
31/10/2024	IIDP-97	IIDP	SAMN44405720		37	Male	26,8	5,40	Head Trauma
22/11/2024	IIDP-99	IIDP	SAMN44779828		59	Female	26,3	5,50	Cerebrovascular/stroke
27/02/2025	IIDP-107	IIDP	SAMN46898244		43	Female	21,8	5,50	Anoxia
09/05/2025	IIDP-111	IIDP	SAMN48329018		42	Female	22,7	5,30	Anoxia
23/05/2025	IIDP-112	IIDP	SAMN48585017		50	Male	27,9	4,60	Intraparenchymal hemorrhage
19/06/2025	IIDP-114	IIDP	SAMN49091687		62	Female	24	5,50	Cerebrovascular/stroke
07/08/2025	IIDP-115	IIDP	SAMN50439434		21	Male	26,9	5,10	Anoxia
10/10/2025	IIDP-119	IIDP	SAMN52384438		26	Male	26,5	5,20	Anoxia

n.d. = non defined

## Extended Data Table 2

List of RT-qPCR primers

<b>Gene</b>	<b>Primer sequence forward</b>	<b>Primer sequence reverse</b>
<b><i>RN18S</i></b>	5' CAGCAGGCGCGCAAATTACC 3'	5'GGCACCAGACTTGCCCTCCA 3'
<b><i>INS</i></b>	5'CGCAGCCTTTGTGAACCAACAC 3'	5'AAGCCTCGTTCCCCGCACACTA 3'
<b><i>GCG</i></b>	5' AGCTTCCCAGGCAGACCCACTC 3'	5' ATGGCGCTTGTCTCCTCGTTCATC 3'
<b><i>PPY</i></b>	5' TCTCCCTGCTGCTCCTGTCCAC 3'	5' CCATCTGCTCTGGTGTGGCATT 3'
<b><i>SST</i></b>	5' GCTGCTGTCTGAACCCAACCAGA 3'	5' TCAAGCCTCATTTTCATCCTGCTCA 3'