Supplementary Materials

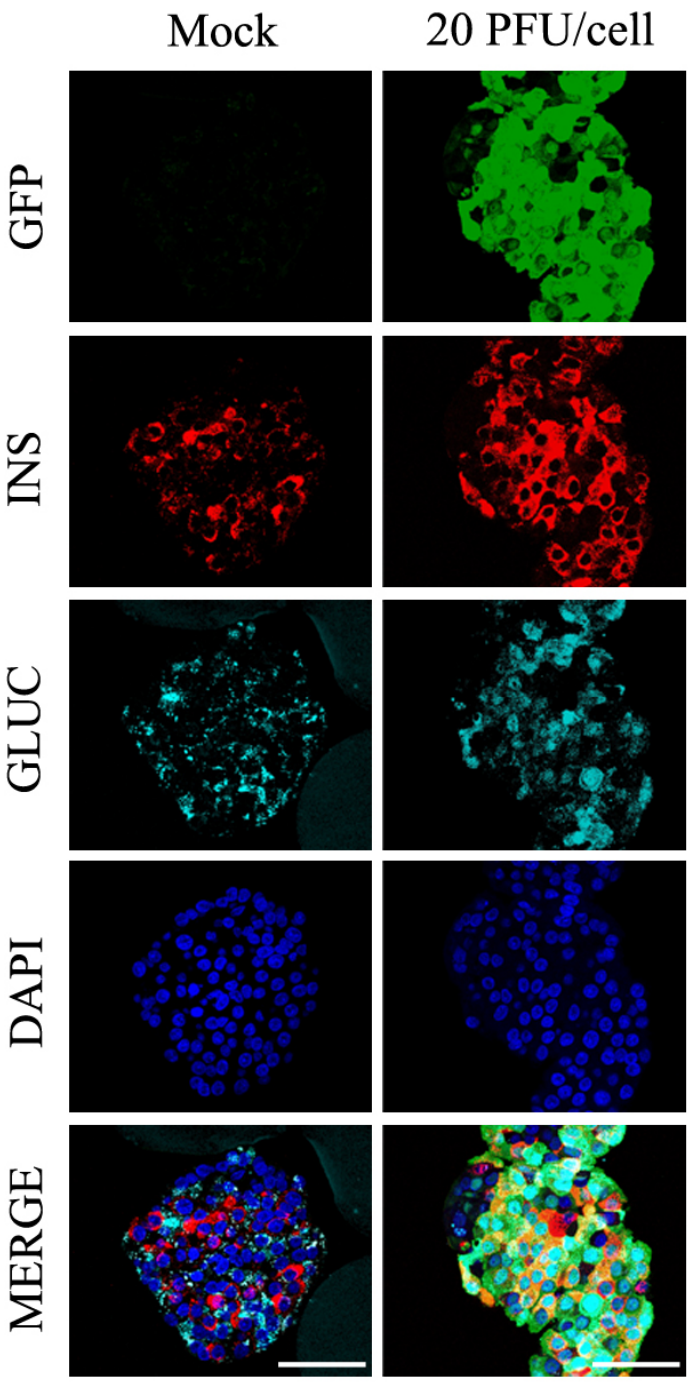
A Simple High Efficiency Intra-Islet Transduction Protocol Using Lentiviral Vectors

Carmen María Jiménez-Moreno[1], Irene de Gracia Herrera-Gomez[1], Livia López-Noriega[1], Petra Isabel Lorenzo[1], Nadia Cobo-Vuilleumier[1], Esther Fuente-Martín[1], José Manuel Mellado-Gil[1], Géraldine Parnaud[2], Domenico Bosco[2], Benoit Raymond Gauthier[1] and Alejandro Martín-Montalvo[1]

[1]Pancreatic Islet Development and Regeneration Unit, Department of Stem Cells, CABIMER-Andalusian Center for Molecular Biology and Regenerative Medicine, Avenida Américo Vespucio, Parque Científico y Tecnológico Cartuja 93, 41092 Sevilla, Spain; [2]Cell Isolation and Transplantation Center, Department of Surgery, Geneva University Hospitals and University of Geneva Rue Michel-Servet 1, 1211 Geneva, Switzerland

Table S1. Characteristics of human islet preparation used in this study.

Donor	Islet Viability	Islet Purity	Islet Size	Average Islet Size
Number #1	80 %	80 %	50-400 µm	100-200 µm
Number #2	80 %	80 %	50-400 µm	100-200 µm
Number #3	88 %	88 %	50-400 µm	100-200 µm
Number #4	90 %	70 %	50-400 µm	100-200 µm
Number #5	95 %	90 %	50-400 µm	100-200 µm
Number #6	95 %	90 %	50-400 µm	100-200 µm



Supplemental Fig. (1). Homogeneous GFP expression through human islets subsequent to transduction using the optimized protocol. Co-immunostaining of GFP (green), insulin (red) and glucagon (cyan) was performed on sections from Affi-Gel bead-embedded human pancreatic islets subsequent to treatment. Nuclei were stained with DAPI. Images were captured in samples fixed at 4 days post-infection using confocal microscopy. Scale-bars 50µm. *n=3* per condition.