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Supporting Information

Additional Supporting Information may be found in the online version of this article.

Figure S1: Network analysis of AAT regulated genes in islets. (A) Merged network of connective tissue and immune system related network. (B) Merged network of cell development, growth and movement-related networks. The Ingenuity Pathways Analysis (IPA) tool was used to generate the networks from the differentially expressed genes. The intensity of the node color indicates the degree of up-regulation (red) and down-regulation (green) in islets from AAT as compared to control recipient host. The core regulatory genes of the network are shown in bold line in the center of network.

Table S1: Summary for the purity, viability, total islet numbers and IEQ of prepared islets for transplantation. The purity, viability and IEQ were analyzed on days 1 and 0 (day of the transplant). This table reflects the results from the day of islet transplantation. These methods have been our standard practice for the past 20 years in nonhuman primate islet transplant experiments (13). We found about 10% of our islets undergo apoptosis and die in the overnight culture period.