

SUPPLEMENTAL DIGITAL CONTENT (SDC)

TABLE S1. List of the most important genes associated with calcium signaling and cAMP signaling, whose expression was significantly associated with graft function at 3 months after transplantation.

Symbol	Gene name	Symbol	Gene name
ADCY1	Adenylate cyclase 1	PADI2	Peptidyl arginine deiminase, type II
ADCY6	Adenylate cyclase 6	PCSK7	Proprotein convertase subtilisin/kexin type 7
CABIN1	Calcineurin binding protein 1	PDCD6	Programmed cell death 6
CACNA1C	Calcium channel, voltage-dependent, L type, alpha 1C subunit	PDE4D	Phosphodiesterase 4D, cAMP-specific
CACNA1D	Calcium channel, voltage-dependent, L type, alpha 1D subunit	PIK3C2A	Phosphoinositide-3-kinase, class 2, alpha polypeptide
CAPN1	Calpain 1, (mu/I) large subunit	PIP5K1C	Phosphatidylinositol-4-phosphate 5-kinase, type I, gamma
CATSPEAR2	Cation channel, sperm associated 2	PIP5K2B	Phosphatidylinositol-4-phosphate 5-kinase, type II, beta
CDH1	Cadherin 1, type 1, E-cadherin	PITPNB	Phosphatidylinositol transfer protein, beta
CDH16	Cadherin 16, KSP-cadherin	PLCD4	Phospholipase C, delta 4
CHERP	Calcium homeostasis endoplasmic reticulum protein	PLEKHA5	Pleckstrin homology domain containing, family A member 5
CREBBP	CREB binding protein (Rubinstein-Taybi syndrome)	PLEKHA6	Pleckstrin homology domain containing, family A member 6
CRTC3	CREB regulated transcription coactivator 3	PRKACA	Protein kinase, cAMP-dependent, catalytic, alpha

FCN3	Ficolin (collagen/fibrinogen domain containing) 3 (Hakata antigen)	PRKAR1A	Protein kinase, cAMP-dependent, regulatory, type I, alpha
HDAC4	Histone deacetylase 4	PTGER3	Prostaglandin E receptor 3 (subtype EP3)
ITPR1	Inosine triphosphate receptor 1	RAPGEF3	Rap guanine nucleotide exchange factor 3
ITPR2	Inosine triphosphate receptor 2	RYR3	Ryanodine receptor 3
MYH10	Myosin, heavy chain 10, non-muscle	SLC8A1	Solute carrier family 8 member 1 (sodium-calcium exchanger)
MYH14	Myosin, heavy chain 14	STC1	Stanniocalcin 1
NFAT5	Nuclear factor of activated T-cells 5, tonicity-responsive	TRPM3	Transient receptor potential cation channel, subfamily M, member 3
