

Supplementary

Table S1 62 genes related to glycolysis Gluconeogenesis signaling pathway were extracted from MSigDB website

ENO2	ADH4	GAPDH	FBP2
ALDH3A2	G6PC2	HK2	HK3
ALDH3B1	DLD	PDHA1	PDHB
LDHAL6A	ADH7	LDHB	DLAT
ALDH7A1	ALDOA	G6PC	ACSS2
PDHA2	ALDOB	PFKP	AKR1A1
PFKL	PCK1	PGK2	PKLR
PGAM4	PKM	ALDOC	ENO1
ALDH9A1	ADH5	PGM1	GALM
ALDH1B1	ACSS1	FBP1	PGM2
GPI	ALDH1A3	PGAM2	LDHA
PGAM1	ALDH3A1	TPI1	BPGM
LDHC	HK1	PCK2	ADH1A
LDHAL6B	ADH6	PGK1	ADH1C
ENO3	ALDH2	PFKM	ADH1B
ALDH3B2		GCK	

Table S2 Pathways associated with *PFKM*, *DLAT*, *PKLR*, *PGM2*, *LDHA*, *BPGM*, *ADH1A*, and *ADH1C* genes

KEGG_CYTOKINE_CYTOKINE_RECECTOR_INTERACTION
KEGG_CHEMOKINE_SIGNALING_PATHWAY
KEGG_JAK_STAT_SIGNALING_PATHWAY
KEGG_CELL_ADHESION_MOLECULES_CAMS
KEGG_HEMATOPOIETIC_CELL_LINEAGE
KEGG_FC_GAMMA_R_MEDIATED_PHAGOCYTOSIS
KEGG_ANTIGEN_PROCESSING_AND_PRESENTATION
KEGG_TOLL_LIKE_RECECTOR_SIGNALING_PATHWAY
KEGG_COMPLEMENT_AND_COAGULATION_CASCADES
KEGG_GLYCOLYSIS_GLUconeogenesis
KEGG_LEISHMANIA_INFECTION
KEGG_ALLOGRAFT_REJECTION
KEGG_GRAFT_VERSUS_HOST_DISEASE
KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION
KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS
KEGG_AUTOIMMUNE_THYROID_DISEASE
KEGG_TYPE_I_DIABETES_MELLITUS
KEGG_AXON_GUIDANCE
KEGG TYROSINE_METABOLISM
KEGG_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY
KEGG_ASTHMA
KEGG_NEUROACTIVE_LIGAND_RECECTOR_INTERACTION
KEGG_VIRAL_MYOCARDITIS
KEGG_PRION_DISEASES
KEGG_GLYCOSAMINOGLYCAN BIOSYNTHESIS_HEPARAN_SULFATE
KEGG_DRUG_METABOLISM_CYTOCHROME_P450
KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450
KEGG_FATTY_ACID_METABOLISM
KEGG_PRIMARY_IMMUNODEFICIENCY
KEGG_NOD_LIKE_RECECTOR_SIGNALING_PATHWAY
KEGG_RETINOL_METABOLISM
KEGG_TASTE_TRANSDUCTION
KEGG_ARACHIDONIC_ACID_METABOLISM
KEGG_AMINOACYL_TRNA BIOSYNTHESIS
KEGG_ECM_RECECTOR_INTERACTION
KEGG_LEUKOCYTE_TRANSENDOTHELIAL_MIGRATION
KEGG_CYTOSOLIC_DNA_SENSING_PATHWAY
KEGG_ETHER_LIPID_METABOLISM
KEGG_RIBOSOME
KEGG_PPAR_SIGNALING_PATHWAY