Table S4 GO annotation of 22 genes

	0	Table 54 (comm	icu)
Gene_name	GO_name	Gene_name	GO_name
ACSM2A	Medium-chain fatty-acyl-CoA	APOB	Nervous system development
1001/20	metabolic process	APOB	Spermatogenesis
ACSM2A	Triglyceride homeostasis	APOH	Positive regulation of blood coagulation
ACSM2A	Fatty acid metabolic process	APOH	Negative regulation of fibrinolysis
ACSM2A	Glucose homeostasis	APOH	Triglyceride transport
APOB	Blood coagulation	APOH	Regulation of fibrinolysis
APOB APOB	Small molecule metabolic process Cellular response to prostaglandin stimulus	APOH	Negative regulation of myeloid cell apoptotic process
APOB	Lipoprotein catabolic process	APOH	Negative regulation of smooth muscle cell
APOB	Triglyceride mobilization		apoptotic process
APOB	Lipoprotein biosynthetic process	APOH	Plasminogen activation
APOB	Regulation of cholesterol	APOH	Regulation of blood coagulation
	biosynthetic process	APOH	Positive regulation of lipoprotein lipase activity
APOB	Positive regulation of lipid storage	APOH	Negative regulation of blood coagulation
APOB	Positive regulation of cholesterol storage	APOH	Negative regulation of endothelial
APOB	Response to carbohydrate stimulus		cell migration
APOB	Response to selenium ion	APOH	Blood coagulation, intrinsic pathway
APOB	Very-low-density lipoprotein particle assembly	APOH	Negative regulation of endothelial cell proliferation
APOB	Low-density lipoprotein particle clearance	APOH	Triglyceride metabolic process
POB	Low-density lipoprotein particle remodeling	APOH	Negative regulation of angiogenesis
POB	Positive regulation of macrophage derived	CDC42EP3	Regulation of cell shape
	foam cell differentiation	CDC42EP3	Signal transduction
POB	Cholesterol transport	CXCL14	Signal transduction
POB	Lipoprotein transport	CXCL14	Immune response
NPOB	Triglyceride catabolic process	CXCL14	Inner ear development
APOB	Cholesterol efflux	CXCL14	Chemotaxis
APOB	Artery morphogenesis	CXCL14	Cell-cell signaling
APOB	Fertilization	DDR2	Positive regulation of extracellular
<i>POB</i>	Sperm motility		matrix disassembly
APOB	Lipoprotein metabolic process	DDR2	Collagen-activated tyrosine kinase receptor signaling pathway
APOB	Cellular response to tumor necrosis factor	DDR2	Regulation of extracellular
APOB	Receptor-mediated endocytosis		matrix disassembly
APOB	Retinoid metabolic process	DDR2	Endochondral bone growth
APOB	Phototransduction, visible light	DDR2	Chondrocyte proliferation
APOB	Cholesterol homeostasis	DDR2	Positive regulation of fibroblast migration
APOB	Cholesterol metabolic process	DDR2	Regulation of bone mineralization
APOB	Post-embryonic development	DDR2	Signal transduction
APOB	Leukocyte migration	DDR2	Biomineral tissue development
APOB	Response to lipopolysaccharide	DDR2	Cell adhesion
APOB	Response to virus	DDR2	Collagen fibril organization
APOB	Lipid metabolic process	DDR2	Positive regulation of protein kinase activity
POB	In utero embryonic development	DDR2	Positive regulation of fibroblast proliferation

Table S4 (continued)

Table S4 (continued)

Table S4 (continued)

Table S4 (continued)

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Gene_name	GO_name
DDR2	Peptidyl-tyrosine phosphorylation
DDR2	Positive regulation of osteoblast differentiation
DDR2	Ossification
DDR2	Positive regulation of sequence-specific DNA binding transcription factor activity
DDR2	Protein autophosphorylation
DOCK5	Small gtpase mediated signal transduction
F5	Blood coagulation
F5	Platelet activation
F5	Platelet degranulation
F5	Cell adhesion
F5	Blood circulation
FTCD	Small molecule metabolic process
FTCD	Cytoskeleton organization
FTCD	Folic acid-containing compound metabolic process
FTCD	Histidine catabolic process to glutamate and formamide
FTCD	Histidine catabolic process to glutamate and formate
FTCD	Histidine catabolic process
FTCD	Tetrahydrofolate interconversion
-TCD	Cellular metabolic process
TCD	Cellular nitrogen compound metabolic process
GNAI1	Blood coagulation
GNAI1	Platelet activation
GNAI1	Vesicle fusion
GNAI1	Adenylate cyclase-inhibiting G-protein coupled receptor signaling pathway
GNAI1	Adenylate cyclase-modulating G-protein coupled receptor signaling pathway
GNAI1	Response to peptide hormone stimulus
GNAI1	Cell cycle
GNAI1	Cell division
GNAI1	G-protein coupled receptor signaling pathway
GNAI1	Synaptic transmission
HPSE	Positive regulation of blood coagulation
HPSE	Small molecule metabolic process
HPSE	Heparan sulfate proteoglycan catabolic process
HPSE	Regulation of hair follicle development
HPSE	Vascular wound healing

 Table S4 (continued)

Gene_name	GO_name
HPSE	Positive regulation of hair follicle development
HPSE	Positive regulation of osteoblast proliferation
HPSE	Proteoglycan metabolic process
HPSE	Positive regulation vascular endothelial growth factor production
HPSE	Glycosaminoglycan catabolic process
HPSE	Positive regulation of protein kinase B signaling cascade
HPSE	Cell-matrix adhesion
HPSE	Glycosaminoglycan metabolic process
HPSE	Carbohydrate metabolic process
IGKC	Immune response
IGKC	Complement activation
IGKC	Complement activation, classical pathway
IGKC	Fc-gamma receptor signaling pathway involved in phagocytosis
IGKC	Regulation of immune response
IGKC	Innate immune response
LYRM4	Small molecule metabolic process
MZB1	Positive regulation of immunoglobulin biosynthetic process
MZB1	Regulation of B cell proliferation
MZB1	Negative regulation of glucose import in response to insulin stimulus
MZB1	Integrin activation
MZB1	Regulation of cell proliferation
MZB1	Positive regulation of cell proliferation
MZB1	Apoptotic process
PARVA	Actin-mediated cell contraction
PARVA	Regulation of cell shape
PARVA	Smooth muscle cell chemotaxis
PARVA	Heterotypic cell-cell adhesion
PARVA	Outflow tract septum morphogenesis
PARVA	Sprouting angiogenesis
PARVA	Establishment or maintenance of cell polarity
PARVA	Substrate adhesion-dependent cell spreading
PARVA	Cilium morphogenesis
PARVA	Cell junction assembly
PLG	Blood coagulation
PLG	Platelet activation
PLG	Platelet degranulation
PLG	Negative regulation of fibrinolysis
Table S4 (continu	ed)

 Table S4 (continued)

Table S4 (continued)

Table	S4	(continued)
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Gene_name	GO_name		
PLG	Negative regulation of cell-cell adhesion mediated by cadherin		
PLG	Positive regulation of fibrinolysis		
PLG	Tissue remodeling		
PLG	Negative regulation of cell-substrate adhesion		
PLG	Fibrinolysis		
PLG	Extracellular matrix disassembly		
PLG	Extracellular matrix organization		
PLG	Negative regulation of cell proliferation		
PLG	Proteolysis		
PLG	Cellular protein metabolic process		
RNF138	Wnt receptor signaling pathway		
RNF138	Protein ubiquitination		
SERPINA1	Blood coagulation		
SERPINA1	Platelet activation		
SERPINA1	Platelet degranulation		
SERPINA1	Acute-phase response		
SERPINA1	Regulation of proteolysis		
SERPINA1	Negative regulation of endopeptidase activity		
SGCD	Cytoskeleton organization		
SGCD	Muscle organ development		
UPB1	Small molecule metabolic process		
UPB1	Beta-alanine biosynthetic process		
UPB1	Nitrogen compound metabolic process		
UPB1	Pyrimidine nucleoside catabolic process		
UPB1	Pyrimidine nucleobase metabolic process		
UPB1	Nucleobase-containing small molecule metabolic process		

GO, gene ontology.