

Table SI. Sequences of the primers used for PCR.

Gene	Sequence (5' to 3')
TLR4	F: AACAGTGGGTACAGGATGCAATT
	R: GGAGGTTTTTATTTTTCCTCTTCAGA
CYP27A1	F: TGAGCAACTCCCTCTCAGCTAAA
	R: TCTACCCAAGGACAGCAATGC
PLIN5	F: CCTTGGCCTTGACCCTTCTT
	R: CAATACCAAAAAGGTGGTCAGAGA
ACSL1	F: CTCCAGTCCCCTGTGGTTTCT
	R: GATCTGCCCTCCCGCTTACT
IL1RN	F: CCTCAGAAGGCGTCACAACA
	R: AGCATGGAGGCTGGTCAGTT
TNFSF13B	F: CACCAACTATACAAAAAGGATCTTACACA
	R: TTATTCTCTTTTCTTCTAGGGCACTTC
PDIA4	F: AATTTGAGGGTGGAGACAGAGATC
	R: CTCAGTTTTGTGGCATGTTCTTCT
FKBP11	F: GCCAAAAGCAGGTGATTCCA
	R: TCGCTTCTCTCCCACACACA
ABLIM1	F: TGAAACTGAGCAGGTGTGTGTTG
	R: CCACCTCCTCCTCTACACACAAG
ENPP4	F: TCCTTCTTGTGCCCATATCTGA
	R: GAAGTAAAACCCTCCAAATAAAAAGGAA
SOD2	F: GATCCACTGCAAGGAACAACAG
	R: GCGTGCTCCCACACATCA
β-ACTIN	F: CTGGAACGGTGAAGGTGACA
	R: CGGCCACATTGTGAACTTTG

F, forward; R, reverse; TLR4, Toll-like receptor 4; CYP27A1, cytochrome P450 family 27 subfamily A member 1; PLIN5, perilipin 5; ACSL1, acyl-CoA synthetase long-chain family member 1; TNFSF13B, tumor necrosis factor superfamily member 13b; IL1RN, interleukin 1 receptor antagonist; SOD2, superoxide dismutase 2; PDIA4, protein disulfide isomerase family A member 4; FKBP11, FKBP prolyl isomerase 11; ENPP4, ectonucleotide pyrophosphatase/phosphodiesterase 4; ABLIM1, actin-binding LIM protein 1.

Table SII. List of 161 differentially expressed genes identified in the whole blood in descending order of FC.

Gene symbol	Gene name	P-value	FC
OLFM4	Olfactomedin 4	0.039	8.71
ARG1	Arginase 1	0.039	7.36
FLJ27255	Uncharacterized LOC401281	0.035	4.93
IL1R1	Interleukin 1 receptor, type I	0.013	4.27
IL1R2	Interleukin 1 receptor, type II	0.021	4.21
ELANE	Elastase, neutrophil expressed	0.017	3.85
SIRPB2	Signal-regulatory protein beta 2	0.005	3.84
SLED1	Proteoglycan 3 pseudogene	0.021	3.83
PLIN4	Perilipin 4	0.004	3.79
RETN	Resistin	0.027	3.63
ANXA3	Annexin A3	0.003	3.61
CTSG	Cathepsin G	0.042	3.59
CBS	Cystathionine-beta-synthase	0.041	3.56
TMIGD3	Transmembrane and immunoglobulin domain containing 3	P<0.001	3.55
MCEMP1	Mast cell-expressed membrane protein1	0.038	3.43
SLC11A1	Solute carrier family 11 (proton-coupled divalent metal ion transporter), member 1	0.029	3.39
HTR1B	5-hydroxytryptamine (serotonin) receptor 1B, G protein-coupled	0.001	3.34
FCGR1A	Fc fragment of igg, high affinity Ia, receptor (CD64)	0.027	3.33
GPR97	G protein-coupled receptor 97	0.027	3.23
NAIP	NLR family, apoptosis inhibitory protein	0.009	3.19
PLIN5	Perilipin 5	0.017	3.17
SMA4	Glucuronidase, beta pseudogene	0.007	3.09
DKFZp667F0711	Uncharacterized protein dkfzp667f0711	0.030	3.07

CEACAM1	Carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)	0.008	3.06
AADACP1	Arylacetamide deacetylase pseudogene1	0.019	2.95
CAMP	Cathelicidin antimicrobial peptide	0.017	2.92
HP	Haptoglobin	0.003	2.92
AZU1	Azurocidin 1	0.026	2.89
C7orf34	Chromosome 7 open reading frame 34	0.046	2.83
GK	Glycerol kinase	0.006	2.76
HCRT	Hypocretin (orexin) neuropeptide precursor	0.045	2.75
LRG1	Leucine-rich alpha-2-glycoprotein 1	0.008	2.73
FFAR3	Free fatty acid receptor 3	0.042	2.73
SIPA1L2	Signal-induced proliferation-associated 1 like 2	0.011	2.68
MGAM	Maltase-glucoamylase (alpha-glucosidase)	0.048	2.66
CLEC4E	C-type lectin domain family 4, memberE	0.008	2.66
SLPI	Secretory leukocyte peptidase inhibitor	0.008	2.66
TNFAIP6	Tumor necrosis factor, alpha-induced protein 6	0.019	2.65
HPR	Haptoglobin-related protein	0.004	2.61
FAM157C	Family with sequence similarity 157, member C	0.029	2.59
SLC22A15	Solute carrier family 22, member 15	0.001	2.58
ACSL1	Acyl-coa synthetase long-chain family member 1	0.014	2.56
FCAR	Fc fragment of iga, receptor for	0.026	2.55
WDFY3	WD repeat and FYVE domain containing 3	0.005	2.54
KLKB1	Kallikrein B, plasma (Fletcher factor) 1	0.034	2.52

CLEC4D	C-type lectin domain family 4, memberD	0.020	2.52
FCGR1B	Fc fragment of igg, high affinity Ib, receptor (CD64)	0.035	2.49
IL1RN	Interleukin 1 receptor antagonist	0.038	2.49
SLC22A4	Solute carrier family 22 (organic cation/zwitterion transporter), member4	0.002	2.48
LUCAT1	Lung cancer associated transcript 1 (non-protein coding)	0.011	2.47
MANSC1	MANSC domain containing 1	0.046	2.44
CLEC18B	C-type lectin domain family 18, member B	0.008	2.43
MRVI1	Murine retrovirus integration site 1 homolog	0.023	2.43
FLOT2	Flotillin 2	0.048	2.43
LGALSL	Lectin, galactoside-binding-like	P<0.001	2.43
SLC2A5	Solute carrier family 2 (facilitated glucose/fructose transporter), member 5	0.025	2.40
SLC22A31	Solute carrier family 22, member 31	0.021	2.39
RTN3	Reticulon 3	0.017	2.38
IRAK3	Interleukin-1 receptor-associated kinase3	0.037	2.37
ENTPD1	Ectonucleoside triphosphate diphosphohydrolase 1	0.041	2.36
GK3P	Glycerol kinase 3 pseudogene	0.003	2.35
ST6GALNAC3	ST6 (alpha-N-acetyl-neuraminy1-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 3	0.037	2.35
LIMK2	LIM domain kinase 2	0.017	2.34
DYSF	Dysferlin	0.028	2.33
TMEM88	Transmembrane protein 88	0.041	2.33
WDR5	WD repeat domain 5	0.016	2.32

FBXL13	F-box and leucine-rich repeat protein 13	0.004	2.31
HSPA6	Heat shock 70kda protein 6 (HSP70B')	0.003	2.31
OSM	Oncostatin M	0.042	2.30
B4GALT5	UDP-Gal:betaglcnac beta 1,4-galactosyltransferase, polypeptide 5	0.042	2.27
APOBEC3B	Apolipoprotein B mrna editing enzyme, catalytic polypeptide-like 3B	0.017	2.27
IL1RAP	Interleukin 1 receptor accessory protein	0.043	2.27
MAK	Male germ cell-associated kinase	0.037	2.27
MYBPC3	Myosin binding protein C, cardiac	0.007	2.27
STARD7-AS1	STARD7 antisense RNA 1	0.008	2.26
ARHGAP24	Rho gtpase activating protein 24	0.036	2.26
HIST1H2AC	Histone cluster 1, h2ac	0.001	2.25
PHC2	Polyhomeotic homolog 2 (Drosophila)	0.025	2.25
MXD3	MAX dimerization protein 3	0.015	2.24
HIST2H2BE	Histone cluster 2, h2be	0.001	2.21
AVIL	Advillin	0.021	2.21
DISC1	Disrupted in schizophrenia 1	0.041	2.21
TLR4	Toll-like receptor 4	0.037	2.20
C10orf105	Chromosome 10 open reading frame 105	0.016	2.20
FGD4	FYVE, rhogef and PH domain containing 4	0.005	2.20
SYP-AS1	SYP antisense RNA 1	0.002	2.18
C8orf60	Chromosome 8 open reading frame 60	0.005	2.18
CCDC147-AS1	CCDC147 antisense RNA 1 (head to head)	0.002	2.17
DGAT2	Diacylglycerol O-acyltransferase 2	0.045	2.17
B3GNT5	UDP-glcnac:betagal beta-1,3-N-acetylglucosaminyltransferase 5	0.002	2.17
RASAL1	RAS protein activator like 1 (GAP1 like)	0.041	2.16
LPAR2	Lysophosphatidic acid receptor 2	0.009	2.16

PLSCR1	Phospholipid scramblase 1	0.045	2.16
MMRN1	Multimerin 1	0.019	2.15
DENND3	DENN/MADD domain containing 3	0.029	2.15
ADM	Adrenomedullin	0.010	2.13
FFAR2	Free fatty acid receptor 2	0.011	2.13
SLC8A1	Solute carrier family 8 (sodium/calcium exchanger), member 1	0.030	2.13
C2orf88	Chromosome 2 open reading frame 88	0.050	2.13
MBOAT7	Membrane bound O-acyltransferase domain containing 7	0.005	2.12
TREM1	Triggering receptor expressed on myeloid cells 1	0.008	2.12
CYP27A1	Cytochrome P450, family 27, subfamily A, polypeptide 1	0.001	2.11
SAT1	Spermidine/spermine N1-acetyltransferase 1	0.011	2.11
LILRA6	Leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 6	0.019	2.11
ATHL1	ATH1, acid trehalase-like 1 (yeast)	0.023	2.10
SMIM1	Small integral membrane protein 1 (Vel blood group)	0.013	2.10
SLC2A3	Solute carrier family 2 (facilitated glucose transporter), member 3	0.022	2.09
CACNA1E	Calcium channel, voltage-dependent, R type, alpha 1E subunit	0.024	2.09
ADAM8	ADAM metallopeptidase domain 8	0.008	2.09
AFF1	AF4/FMR2 family, member 1	0.004	2.09
HCG27	HLA complex group 27 (non-protein coding)	0.021	2.08
DISC1-IT1	DISC1 intronic transcript 1 (non-protein coding)	0.024	2.08
CYSTM1	Cysteine-rich transmembrane module	0.040	2.08

	containing 1		
NCF1	Neutrophil cytosolic factor 1	0.004	2.07
USF1	Upstream transcription factor 1	0.018	2.07
MSRB2	Methionine sulfoxide reductase B2	0.006	2.06
IGSF9	Immunoglobulin superfamily, member9	0.008	2.04
NAMPT	Nicotinamide phosphoribosyltransferase	0.015	2.04
NCF1B	Neutrophil cytosolic factor 1B pseudogene	0.001	2.04
MPZL1	Myelin protein zero-like 1	0.030	2.02
LRRK2	Leucine-rich repeat kinase 2	0.005	2.02
FCGR2B	Fc fragment of igg, low affinity iib, receptor (CD32)	0.009	2.02
FAM71F2	Family with sequence similarity 71, member F2	0.007	2.01
NT5C2	5'-nucleotidase, cytosolic II	0.019	2.01
TNFSF13B	Tumor necrosis factor (ligand) superfamily, member 13b	0.035	2.01
KCNJ15	Potassium channel, inwardly rectifying subfamily J, member 15	0.022	2.01
BCL6	B-cell CLL/lymphoma 6	0.034	2.01
CSF2RB	Colony stimulating factor 2 receptor, beta, low-affinity (granulocyte- macrophage)	0.039	2.00
ITM2C	Integral membrane protein 2C	0.016	0.50
SLC4A4	Solute carrier family 4 (sodium bicarbonate cotransporter), member 4	0.024	0.50
B3GAT1	Beta-1,3-glucuronyltransferase 1	0.049	0.50
TIMD4	T-cell immunoglobulin and mucin domain containing 4	0.023	0.49
CHD6	Chromodomain helicase DNA binding protein 6	0.037	0.49
MGC24103	Uncharacterized MGC24103	0.037	0.49

KANK1	KN motif and ankyrin repeat domains 1	0.025	0.49
CDCA5	Cell division cycle associated 5	0.036	0.48
PMEPA1	Prostate transmembrane protein, androgen induced 1	0.004	0.48
NOG	Noggin	0.023	0.47
KRT86	Keratin 86, type II	0.005	0.47
NUF2	NUF2, NDC80 kinetochore complex component	0.002	0.47
SCAMP5	Secretory carrier membrane protein 5	0.008	0.47
OIP5	Opa interacting protein 5	0.025	0.47
GPR125	G protein-coupled receptor 125	0.001	0.46
RNF157-AS1	RNF157 antisense RNA 1	0.004	0.46
ZMAT4	Zinc finger, matrin-type 4	0.025	0.45
SYNGR3	Synaptogyrin 3	0.026	0.44
CUX2	Cut-like homeobox 2	0.010	0.43
CCNB1	Cyclin B1	0.021	0.43
CD38	CD38 molecule	0.033	0.43
SLC1A7	Solute carrier family 1 (glutamate transporter), member 7	0.020	0.43
ERAP2	Endoplasmic reticulum aminopeptidase2	0.029	0.43
BIRC5	Baculoviral IAP repeat containing 5	0.034	0.42
HPDL	4-hydroxyphenylpyruvate dioxygenase- like	0.002	0.39
TXNDC5	Thioredoxin domain containing 5 (endoplasmic reticulum)	0.033	0.39
IGJ	Immunoglobulin J polypeptide, linker protein for immunoglobulin alpha and mu polypeptides	0.038	0.35
S100B	S100 calcium binding protein B	0.023	0.34
MZB1	Marginal zone B and B1 cell-specific protein	0.033	0.33
SCARA5	Scavenger receptor class A, member 5	0.006	0.31

NLRP7	NLR family, pyrin domain containing 7	0.003	0.27
MYOM2	Myomesin 2	0.014	0.18
CCR9	Chemokine (C-C motif) receptor 9	0.003	0.13

The original signal value was log2-normalized for the statistical analysis. FC, fold change.