

S1 Table. Differentially expressed genes among IFN-DCs derived from ActiveTB, LTBI and HD individuals.

Gene symbol	Description	Active TB vs LTBI	Active TB vs HD	LTBI vs HD
ACBD5	-		X	
ADAMTS9	a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 9			X
ADCK5	aarF domain containing kinase 5		X	
ADPN	adiponutrin			X
ALDH1A2	aldehyde dehydrogenase 1 family, member A2	X		
ANPEP	alanyl (membrane) aminopeptidase (aminopeptidase N, aminopeptidase M, microsomal aminopeptidase, CD13, p150)		X	X
AP2S1	adaptor-related protein complex 2, sigma 1 subunit		X	
APBB2	amyloid beta (A4) precursor protein-binding, family B, member 2 (Fe65-like)	X		
APR2_HUMAN	apoptosis related protein			X
ARHGAP29	PTPL1-associated RhoGAP 1			X
ARHGAP31	KIAA1204 protein		X	
ARHGEF6	Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6		X	
ATBF1	AT-binding transcription factor 1			X
AZGP1	alpha-2-glycoprotein 1, zinc	X		
BCAR1	breast cancer anti-estrogen resistance 1			X
BDKRB2	bradykinin receptor B2		X	
BID	BH3 interacting domain death agonist		X	
BTN1A1	butyrophilin, subfamily 1, member A1		X	
C13orf15	response gene to complement 32		X	
C14orf160	chromosome 14 open reading frame 160			X
C17orf62	hypothetical protein MGC4368		X	
C1orf113	hypothetical protein FLJ22938		X	
C20orf127	chromosome 20 open reading frame 127			X
C22orf36	similar to hypothetical protein LOC192734			X
C6orf223	-			X
C6orf62	chromosome 6 open reading frame 62		X	
C9orf58	chromosome 9 open reading frame 58			X
CARD16	CARD only protein		X	
CCL17	chemokine (C-C motif) ligand 17		X	
CCL22	chemokine (C-C motif) ligand 22		X	
CCNL1	cyclin L1		X	
CD1A	CD1A antigen, a polypeptide		X	
CD1C	CD1C antigen, c polypeptide		X	
CD80	CD80 antigen (CD28 antigen ligand 1, B7-1 antigen)		X	X
CDC40	cell division cycle 40 homolog (yeast)		X	
CDC42EP1	CDC42 effector protein (Rho GTPase binding) 1		X	
CDC7	CDC7 cell division cycle 7 (S. cerevisiae)			X
CDCA7	cell division cycle associated 7		X	
CEACAM1	carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)			X

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CHCHD5	coiled-coil-helix-coiled-coil-helix domain containing 5			X
CHEK1	CHK1 checkpoint homolog (S. pombe)		X	X
CISH	cytokine inducible SH2-containing protein		X	
CLECSF8	C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 8		X	
CMAS	cytidine monophosphate N-acetylneuraminic acid synthetase		X	X
COBL	cordon-bleu homolog (mouse)			X
COL5A2	collagen, type V, alpha 2		X	
CPB2	carboxypeptidase B2 (plasma, carboxypeptidase U)			X
CRHR1	corticotropin releasing hormone receptor 1		X	X
CST1	cystatin SN		X	
CST3	cystatin C (amyloid angiopathy and cerebral hemorrhage)		X	
CST6	cystatin E/M			X
CTRL	proteasome (prosome, macropain) subunit, beta type, 10			X
CTSL2	cathepsin L2		X	
CUL5	cullin 5			X
DAF	decay accelerating factor for complement (CD55, Cromer blood group system)			X
DCOP_HUMAN	-		X	
DCXR	dicarbonyl/L-xylulose reductase		X	
DDX58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58		X	
DEPDC1	DEP domain containing 1			X
DEPDC1B	DEP domain containing 1B		X	
DKK1	dickkopf homolog 1 (Xenopus laevis)		X	X
DNAJC6	DnaJ (Hsp40) homolog, subfamily C, member 6		X	
DNASE1L3	deoxyribonuclease I-like 3	X		
DNMT3B	DNA (cytosine-5-)-methyltransferase 3 beta			X
DRAP1	DR1-associated protein 1 (negative cofactor 2 alpha)		X	
DRD1	dopamine receptor D1		X	
E2F2	E2F transcription factor 2			X
EDF1	endothelial differentiation-related factor 1		X	
EIF4EBP1	eukaryotic translation initiation factor 4E binding protein 1		X	
EPAS1	endothelial PAS domain protein 1		X	
EVA1	epithelial V-like antigen 1			X
FAM29A	family with sequence similarity 29, member A		X	
FAM73A	FLJ35093 protein		X	
FARS1	phenylalanine-tRNA synthetase 2 (mitochondrial)			X
FEZF1	similar to zinc finger protein 312; forebrain embryonic zinc finger			X
FGB	fibrinogen, B beta polypeptide			X
FGF13	fibroblast growth factor 13			X
FGL1	fibrinogen-like 1			X
FJX1	four jointed box 1 (Drosophila)			X
FMNL1	formin-like 1		X	

Gene symbol	Description	Active TB vs LTBI	Active TB vs HD	LTBI vs HD
FPRL2	formyl peptide receptor-like 2		X	X
GAB4	-		X	
GALNAC4S-6ST	B cell RAG associated protein		X	X
GAS2	growth arrest-specific 2			X
GCM2	glial cells missing homolog 2 (Drosophila)			X
GDAP2	ganglioside induced differentiation associated protein 2		X	
GLT8D1	glycosyltransferase 8 domain containing 1			X
GPR157	-		X	
GPX7	glutathione peroxidase 7		X	
GRB10	growth factor receptor-bound protein 10		X	
GRIK2	glutamate receptor, ionotropic, kainate 2	X		
GTF3C1	general transcription factor IIC, polypeptide 1, alpha 220kDa		X	
HAS3	hyaluronan synthase 3			X
HDAC1	histone deacetylase 1			X
HDAC3	histone deacetylase 3		X	
HECA	headcase homolog (Drosophila)	X		
HERC6	hect domain and RLD 6		X	
HEXDC	hypothetical protein FLJ23825		X	
HIF1AN	hypoxia-inducible factor 1, alpha subunit inhibitor		X	
HIG2_HUMAN	-		X	
HLA-DQA2	major histocompatibility complex, class II, DQ alpha 2		X	
HLA-DRB2	major histocompatibility complex, class II, DR beta 1			X
HMMR	hyaluronan-mediated motility receptor (RHAMM)		X	
HPS1	-		X	
HPX	hemopexin			X
HTR4	5-hydroxytryptamine (serotonin) receptor 4		X	X
ICMT	-		X	
IFI35	interferon-induced protein 35		X	
IFIT3	interferon-induced protein with tetratricopeptide repeats 3		X	
IL17RC	interleukin 17 receptor C		X	
IQCF1	IQ motif containing F1			X
IRF4	interferon regulatory factor 4	X	X	
ITM2A	integral membrane protein 2A			X
KAL1	Kallmann syndrome 1 sequence			X
KAZALD1	hypothetical gene supported by BC012394; BC053611		X	
KIAA1787	-		X	
KLHL12	kelch-like 12 (Drosophila)		X	
KNG1	kininogen 1			X
LAMA1	laminin, alpha 1			X
LAMB1	laminin, beta 1		X	
LAMP3	lysosomal-associated membrane protein 3		X	

Gene symbol	Description	Active TB vs LTBI	Active TB vs HD	LTBI vs HD
LGALS1	lectin, galactoside-binding, soluble, 1 (galectin 1)		X	
LGALS2	lectin, galactoside-binding, soluble, 2 (galectin 2)		X	
LILRB1	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 1			X
LILRB3	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3			X
LLGL2	lethal giant larvae homolog 2 (Drosophila)			X
LOC349683	-		X	
LRIG3	leucine-rich repeats and immunoglobulin-like domains 3		X	
LRP8	-			X
LSM4	LSM4 homolog, U6 small nuclear RNA associated (S. cerevisiae)		X	
M6PR	mannose-6-phosphate receptor (cation dependent)		X	
MAD2L2	MAD2 mitotic arrest deficient-like 2 (yeast)		X	
MAGEC1	melanoma antigen family C, 1		X	
MAPK14	mitogen-activated protein kinase 14		X	
MARK2	-	X		
MBD3L1	methyl-CpG binding domain protein 3-like 1		X	
MCM5	MCM5 minichromosome maintenance deficient 5, cell division cycle 46 (S. cerevisiae)		X	
MCOLN1	mucolipin 1		X	
MET	met proto-oncogene (hepatocyte growth factor receptor)		X	X
MICB	MHC class I polypeptide-related sequence B	X		
MOV10	-	X		
MOXD1	monooxygenase, DBH-like 1			X
MPEG1	-			X
MT1P2	-		X	X
MT2A	hypothetical gene supported by X97260; BC070289		X	X
MTA3	metastasis associated 1 family, member 3			X
MTMR11	cisplatin resistance associated			X
MTUS1	mitochondrial tumor suppressor 1		X	
NAPE-PLD	N-acyl-phosphatidylethanolamine-hydrolyzing phospholipase D		X	
NCF2	neutrophil cytosolic factor 2 (65kDa, chronic granulomatous disease, autosomal 2)		X	
NCF4	neutrophil cytosolic factor 4, 40kDa		X	
NCR2	-		X	
NKD2	-		X	
NME3	non-metastatic cells 3, protein expressed in		X	
NME7	non-metastatic cells 7, protein expressed in (nucleoside-diphosphate kinase)			X
NMT2	N-myristoyltransferase 2			X
NP_001004322	FLJ38717 protein		X	
NP_076416	HCV NS3-transactivated protein 2		X	X
NP_077817	p10-binding protein			X
NP_079019	hypothetical protein FLJ21934			X
NP_115700	hypothetical protein MGC13186			X

Gene symbol	Description	Active TB vs LTBI	Active TB vs HD	LTBI vs HD
NP_620311	apobec-1 complementation factor		X	
NP_659461	hypothetical protein FLJ31547		X	
NP_689595	hypothetical protein FLJ37953		X	
NP_694540	ovarian zinc finger protein			X
NP_848603	chromosome 6 open reading frame 1			X
NP_848622	solute carrier family 9, isoform 11		X	
NP_857596	-		X	
NP_997377	similar to bA110H4.2 (similar to membrane protein)	X		
NR4A2	nuclear receptor subfamily 4, group A, member 2			X
O911_HUMAN	olfactory receptor, family 9, subfamily I, member 1			X
OMA1	-	X		X
OR13C5	olfactory receptor, family 13, subfamily C, member 5		X	X
PA2G4	-		X	
PADI4	peptidyl arginine deiminase, type IV			X
PAM	peptidylglycine alpha-amidating monooxygenase			X
PANK1	pantothenate kinase 1			X
PCDHB8	protocadherin beta 8		X	
PFN1	profilin 1		X	
PGA5	pepsinogen 5, group I (pepsinogen A)		X	
PGBD5	piggyBac transposable element derived 5			X
PHF20L1	PHD finger protein 20-like 1			X
PILRB	paired immunoglobulin-like type 2 receptor beta		X	
PKN3	protein kinase N3			X
PLAC8	placenta-specific 8			X
PODXL	podocalyxin-like			X
PP	pyrophosphatase (inorganic)		X	
PPM1L	protein phosphatase 1 (formerly 2C)-like			X
PRKCABP	protein kinase C, alpha binding protein		X	
PRKX	-			X
PRM2	protamine 2	X		
PSCD4	pleckstrin homology, Sec7 and coiled-coil domains 4		X	
PTGES	prostaglandin E synthase		X	
PTMS	parathyrosin		X	
PTPNS1	protein tyrosine phosphatase, non-receptor type substrate 1		X	
PUS1	pseudouridylate synthase 1		X	
Q8N985	-			X
Q8NAC9	KIAA0540 protein			X
Q8NAN8	-		X	
Q8NB05	-	X		
Q8WY58	hypothetical protein LOC201175		X	
Q96HN1	-	X	X	

Gene symbol	Description	Active TB vs LTBI	Active TB vs HD	LTBI vs HD
Q9P1F5	-			X
RBMV2EP	-			X
RFC5	replication factor C (activator 1) 5, 36.5kDa		X	
RGNEF	-		X	X
RGS14	regulator of G-protein signalling 14		X	
RGS19	regulator of G-protein signalling 19		X	
RHOJ	-		X	
RNF128	ring finger protein 128		X	
RPL12	ribosomal protein L12		X	X
RPL23AP82	similar to RPL23AP7 protein			X
RPS2P8	similar to ribosomal protein S2; 40S ribosomal protein S2		X	
RRAS2	related RAS viral (r-ras) oncogene homolog 2			X
RXRG	retinoid X receptor, gamma		X	
S100A6	S100 calcium binding protein A6 (calcyclin)		X	
SAH	SA hypertension-associated homolog (rat)		X	
SCCPDH	CGI-49 protein		X	X
SDF2L1	stromal cell-derived factor 2-like 1		X	
SELRC1	hypothetical protein FLJ12439		X	
SEMA3C	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C			X
SERPINC1	serine (or cysteine) proteinase inhibitor, clade C (antithrombin), member 1		X	
SFTPB	surfactant, pulmonary-associated protein B		X	
SGCE	sarcoglycan, epsilon		X	X
SGOL1	-		X	
SH3BGR2	SH3 domain binding glutamic acid-rich protein like 2			X
SH3GL2	-		X	
SIAE	cytosolic sialic acid 9-O-acetyltransferase homolog			X
SLC13A4	-		X	
SLC16A9	solute carrier family 16 (monocarboxylic acid transporters), member 9		X	
SLC35F2	solute carrier family 35, member F2			X
SLC43A2	solute carrier family 43, member 2		X	
SLC7A11	-			X
SMC1L1	SMC1 structural maintenance of chromosomes 1-like 1 (yeast)		X	
SNX25	sorting nexin 25			X
SON	SON DNA binding protein		X	
SPANXD	SPANX family, member D			X
SPATA4	spermatogenesis associated 4			X
SPC25	kinetochore protein Spc25			X
SPG11	hypothetical protein FLJ21439		X	
SPHK1	sphingosine kinase 1			X
STAB1	stabilin 1			X
STAT4	signal transducer and activator of transcription 4		X	

Gene symbol	Description	Active TB vs LTBI	Active TB vs HD	LTBI vs HD
STK10	serine/threonine kinase 10			X
SVIL	supervillin	X	X	
SYBL1	synaptobrevin-like 1		X	
TACSTD1	tumor-associated calcium signal transducer 1		X	X
TALDO1	transaldolase 1			X
TAOK3	TAO kinase 3		X	
TBCC	tubulin-specific chaperone c		X	
TFEB	transcription factor EB			X
THY1	Thy-1 cell surface antigen			X
TLR3	toll-like receptor 3		X	X
TM4SF11	transmembrane 4 superfamily member 11 (plasmolipin)		X	
TM7SF1	transmembrane 7 superfamily member 1 (upregulated in kidney)		X	
TM7SF3	transmembrane 7 superfamily member 3			X
TMEM98	DKFZP564K1964 protein		X	X
TMTC1	-		X	
TNFRSF11A	tumor necrosis factor receptor superfamily, member 11a, activator of NFkB		X	
TNFSF10	tumor necrosis factor (ligand) superfamily, member 10		X	
TPI1	triosephosphate isomerase 1		X	
TPM1	tropomyosin 1 (alpha)		X	
TPST2	tyrosylprotein sulfotransferase 2		X	
TRADD	TNFRSF1A-associated via death domain		X	
TREM2	triggering receptor expressed on myeloid cells 2		X	
TRIM16	similar to tripartite motif-containing 16; estrogen-responsive B box protein		X	
TSC22D1	transforming growth factor beta 1 induced transcript 4		X	
TTC21B	tetratricopeptide repeat domain 21B	X		X
TYK2	tyrosine kinase 2		X	
TYR	tyrosinase (oculocutaneous albinism IA)			X
UNC93B1	unc-93 homolog B1 (C. elegans)		X	
URP2_HUMAN	UNC-112 related protein 2		X	
VPS28	vacuolar protein sorting 28 (yeast)	X		
WAC	-			X
WDR48	WD repeat domain 48			X
XIST	-			X
Y220_HUMAN	-		X	
YARS2	CGI-04 protein			X
ZFAND1	hypothetical protein FLJ14007			X
ZNF142	zinc finger protein 142 (clone pHZ-49)		X	
ZNF18	zinc finger protein 18 (KOX 11)			X
ZNF223	zinc finger protein 223		X	
ZNF416	hypothetical protein FLJ20557			X
ZNF521	zinc finger protein 521			X

Gene symbol	Description	Active TB vs LTBI	Active TB vs HD	LTBI vs HD
ZNF615	zinc finger protein 615	X		
ZNF682	-		X	
ZNRF1	-			X
ZWILCH	Zwilch			X

Footnotes: X indicate the comparison groups in which the indicated genes are differentially expressed