

Supplementary Table 1: Gene expression in TRAPS patients and control monocytes (CTR)¹

ID ²	Symbol	Entrez Gene Name	TRAPS_UNT/CTR_UNT		TRAPS_LPS/CTR_LPS		CTR_LPS/CTR_UNT		TRAPS_LPS/TRAPS_UNT	
			ratio	t-test	ratio	t-test	ratio	t-test	ratio	t-test
8162940	ABCA1	ATP-binding cassette, sub-family A (ABC1), member 1					2,329	0,435		
8032371	ABHD17A	abhydrolase domain containing 17A					2,024			
7922610	ABL2	v-abl Abelson murine leukemia viral oncogene homolog 2	2,023	0,094			2,041	0,156		
7936463	ABLIM1	actin binding LIM protein 1			-2,090	0,273				
7947462	ABTB2	ankyrin repeat and BTB (POZ) domain containing 2					2,941	0,180	2,723	0,131
8123137	ACAT2	acetyl-CoA acetyltransferase 2					2,235	0,161	2,309	0,081
7947815	ACP2	acid phosphatase 2, lysosomal	-2,172	0,028						
8034304	ACP5	acid phosphatase 5, tartrate resistant					-2,033	0,041		
8082673	ACPP	acid phosphatase, prostate					2,454	0,281		
8103951	ACSL1	acyl-CoA synthetase long-chain family member 1					6,745	0,072	4,739	0,121
8048733	ACSL3	acyl-CoA synthetase long-chain family member 3					2,097	0,493		
8174474	ACSL4	acyl-CoA synthetase long-chain family member 4			-3,489	0,381	5,681	0,324		
7979824	ACTN1	actinin, alpha 1					2,152	0,509		
7974587	ACTR10	actin-related protein 10 homolog (<i>S. cerevisiae</i>)			-2,923	0,313				
8044686	ACTR3	ARP3 actin-related protein 3 homolog (yeast)					2,246	0,513		
8066431	ADA	adenosine deaminase					3,572	0,026	2,847	0,102
8115490	ADAM19	ADAM metalloproteinase domain 19					4,369	0,160		
7937150	ADAM8	ADAM metalloproteinase domain 8			2,324	0,196				
7920531	ADAR	adenosine deaminase, RNA-specific					3,167	0,352		
8071899	ADORA2A	adenosine A2a receptor					3,943	0,001	4,575	0,065
8064779	ADRA1D	adrenoceptor alpha 1D	-2,012	0,209						

8053869	ADRA2B	adrenoceptor alpha 2B			2,460	0,111			
8096224	AFF1	AF4/FMR2 family, member 1			-2,276	0,389			
8048847	AGFG1	ArfGAP with FG repeats 1					2,353	0,481	
8130628	AGPAT4	1-acylglycerol-3-phosphate O-acyltransferase 4	2,249	0,201	2,562	0,099			
8146142	AGPAT6	1-acylglycerol-3-phosphate O-acyltransferase 6					2,812	0,241	
8096116	AGPAT9	1-acylglycerol-3-phosphate O-acyltransferase 9	3,183	0,237					-2,360 0,234
7962183	AK4	adenylate kinase 4			-2,833	0,411	3,193	0,326	2,416 0,105
7900216	AKIRIN1	akirin 1					2,464	0,573	
8081431	ALCAM	activated leukocyte cell adhesion molecule					3,028	0,227	
7927215	ALOX5	arachidonate 5-lipoxygenase					-2,087	0,047	
7962185	AMN1	antagonist of mitotic exit network 1 homolog (<i>S. cerevisiae</i>)	2,118	0,098					
7938396	AMPD3	adenosine monophosphate deaminase 3							3,361 0,128
8111101	ANKH	ANKH inorganic pyrophosphate transport regulator					-2,350	0,021	
7967794	ANKLE2	ankyrin repeat and LEM domain containing 2					2,091	0,203	
8175585	ANKRD11	ankyrin repeat domain 11	-2,221	0,508					
8085628	ANKRD28	ankyrin repeat domain 28	2,338	0,302	2,531	0,252			
8055297	ANKRD30BL	ankyrin repeat domain 30B-like	-2,280	0,326					
8053801	ANKRD36C	ankyrin repeat domain 36C	-2,610	0,380					
7954997	ANO6	anoctamin 6			-2,027	0,497	2,032	0,526	
8101260	ANTXR2	anthrax toxin receptor 2					2,089	0,693	
8155849	ANXA1	annexin A1	2,254	0,263					
8017210	AP1S2	adaptor-related protein complex 1, sigma 2 subunit					2,485	0,740	
8114593	APBB3	amyloid beta (A4) precursor protein-binding, family B, member 3			3,087	0,155	-2,141	0,133	
8072710	APOL6	apolipoprotein L, 6					2,129	0,611	
7983910	AQP9	aquaporin 9			-2,186	0,524	4,797	0,300	

8099760	ARAP2	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2					2,361	0,414		
8076515	ARFGAP3	ADP-ribosylation factor GTPase activating protein 3	2,189	0,275			2,655	0,235		
8108873	ARHGAP26	Rho GTPase activating protein 26				2,292	0,215			
8081838	ARHGAP31	Rho GTPase activating protein 31	-2,136	0,131						
7927732	ARID5B	AT rich interactive domain 5B (MRF1-like)				-3,077	0,354	3,970	0,320	
7984641	ARIH1	ariadne homolog, ubiquitin-conjugating enzyme E2 binding protein, 1 (Drosophila)	2,002	0,188						
8059854	ARL4C	ADP-ribosylation factor-like 4C							-2,439	0,128
7926531	ARL5B	ADP-ribosylation factor-like 5B	2,794	0,011	2,505	0,129	3,294	0,105	2,486	0,110
7999834	ARL6IP1	ADP-ribosylation factor-like 6 interacting protein 1					2,145	0,762		
8077450	ARL8B	ADP-ribosylation factor-like 8B	2,586	0,060			2,997	0,332		
8113073	ARRDC3	arrestin domain containing 3				-2,895	0,481			
7986350	ARRDC4	arrestin domain containing 4	2,769	0,130			2,209	0,098		
8149534	ASAH1	N-acylsphingosine amidohydrolase (acid ceramidase) 1	2,044	0,259					-2,289	0,180
8150988	ASPH	aspartate beta-hydroxylase	2,925	0,138	2,255	0,134				
8053872	ASTL	astacin-like metallo-endopeptidase (M12 family)	2,046	0,049	2,232	0,135				
8056909	ATF2	activating transcription factor 2								
8030557	ATF5	activating transcription factor 5	-2,133	0,127						
7954104	ATF7IP	activating transcription factor 7 interacting protein					2,018	0,434		
8092849	ATP13A3	ATPase type 13A3	2,266	0,263			2,965	0,348		
7904254	ATP1A1	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide					2,528	0,942		
7965359	ATP2B1	ATPase, Ca ⁺⁺ transporting, plasma membrane 1	2,318	0,218			3,756	0,230		
8081740	ATP6V1A	ATPase, H ⁺ transporting, lysosomal 70kDa, V1 subunit A	2,605	0,016	2,277	0,085				

8144931	ATP6V1B2	ATPase, H+ transporting, lysosomal 56/58kDa, V1 subunit B2			2,127	0,822		
8150797	ATP6V1H	ATPase, H+ transporting, lysosomal 50/57kDa, V1 subunit H	2,319	0,109	2,157	0,239		
7983360	B2M	beta-2-microglobulin			2,283	0,925		
8042211	B3GNT2	UDP-GlcNAc:betaGal beta-1,3-N- acetylglucosaminyltransferase 2			2,183	0,363		
8147756	BAALC	brain and acute leukemia, cytoplasmic			2,446	0,003		
8068105	BACH1	BTB and CNC homology 1, basic leucine zipper transcription factor 1			3,172	0,269		
8104601	BASP1	brain abundant, membrane attached signal protein 1			2,584	0,108		
7975793	BATF	basic leucine zipper transcription factor, ATF-like			-2,764	0,030	4,702	0,013
7978595	BAZ1A	bromodomain adjacent to zinc finger domain, 1A			2,771	0,400		
7961829	BCAT1	branched chain amino-acid transaminase 1, cytosolic	2,061	0,182				
7990818	BCL2A1	BCL2-related protein A1	2,503	0,178	5,695	0,107	3,529	0,079
8029465	BCL3	B-cell CLL/lymphoma 3	-2,146	0,149				
8092691	BCL6	B-cell CLL/lymphoma 6			3,547	0,177	2,300	0,232
8003633	BHLHA9	basic helix-loop-helix family, member a9			2,252	0,105		
7943424	BIRC2	baculoviral IAP repeat containing 2			2,111	0,412		
7943413	BIRC3	baculoviral IAP repeat containing 3			2,370	0,411	2,423	0,171
7983502	BLOC1S6	biogenesis of lysosomal organelles complex-1, subunit 6, pallidin	2,186	0,167				
7907171	BLZF1	basic leucine zipper nuclear factor 1			2,664	0,543		
7926609	BMI1	BMI1 polycomb ring finger oncogene			-2,675	0,321		
8047538	BMPR2	bone morphogenetic protein receptor, type II (serine/threonine kinase)			-2,287	0,261		
7937079	BNIP3	BCL2/adenovirus E1B 19kDa interacting protein 3			-2,107	0,419		
7909931	BROX	BRO1 domain and CAAX motif containing			-2,743	0,392		

7929201	BTAF1	BTAF1 RNA polymerase II, B-TFIID transcription factor-associated, 170kDa				2,021	0,898		
8069565	BTG3	BTG family, member 3				2,365	0,179	2,678	0,102
8047339	BZW1	basic leucine zipper and W2 domains 1				2,153	0,491		
7983478	C15orf48	chromosome 15 open reading frame 48				2,189	0,208	2,438	0,097
8013509	C17orf103	chromosome 17 open reading frame 103	-2,006	0,090					
7900192	C1orf122	chromosome 1 open reading frame 122				2,694	0,064		
7903980	C1orf162	chromosome 1 open reading frame 162						-2,102	0,149
7920492	C1orf43	chromosome 1 open reading frame 43	2,068	0,032					
7984016	C2CD4A	C2 calcium-dependent domain containing 4A				2,108	0,051		
8033257	C3	complement component 3						2,172	0,228
8102518	C4orf3	chromosome 4 open reading frame 3			-2,086	0,269			
8029907	C5AR1	complement component 5a receptor 1					-2,386	0,023	-2,833
8105104	C5orf51	chromosome 5 open reading frame 51			-2,411	0,283			
8146717	C8orf44-SGK3/SGK3	serum/glucocorticoid regulated kinase family, member 3						-2,114	0,156
8159646	C9orf173	chromosome 9 open reading frame 173			2,369	0,193			
8092468	CAMK2N2	calcium/calmodulin-dependent protein kinase II inhibitor 2	-2,261	0,067					
7951397	CASP1	caspase 1, apoptosis-related cysteine peptidase					2,225	0,884	
7951372	CASP4	caspase 4, apoptosis-related cysteine peptidase					3,644	0,362	
7951385	CASP5	caspase 5, apoptosis-related cysteine peptidase			-3,416	0,236	8,082	0,151	
8089261	CBLB	Cbl proto-oncogene, E3 ubiquitin protein ligase B			-2,017	0,372			
8006433	CCL2	chemokine (C-C motif) ligand 2			-2,786	0,160	4,251	0,104	6,089
8048864	CCL20	chemokine (C-C motif) ligand 20					10,136	0,021	10,820
7996022	CCL22	chemokine (C-C motif) ligand 22	-2,152	0,103					
8019731	CCL3L1/CCL3L3	chemokine (C-C motif) ligand 3-like 1	3,044	0,142	2,298	0,237	18,492	0,005	12,453

8006602	CCL4	chemokine (C-C motif) ligand 4	2,889	0,250	3,311	0,214	20,390	0,009	45,479	0,112
8006621	CCL4L1/CCL4L2	chemokine (C-C motif) ligand 4-like 1	2,887	0,228	2,172	0,285	33,504	0,001	29,536	0,088
8014316	CCL5	chemokine (C-C motif) ligand 5	-2,338	0,060	-2,286	0,117	2,208	0,201		
8006440	CCL7	chemokine (C-C motif) ligand 7	2,534	0,149						
8086600	CCR1	chemokine (C-C motif) receptor 1					-2,493	0,019	-3,102	0,092
8093294	CCR2	chemokine (C-C motif) receptor 2					-2,436	0,007		
8015031	CCR7	chemokine (C-C motif) receptor 7					2,230	0,255	2,310	0,114
8093304	CCRL2	chemokine (C-C motif) receptor-like 2	2,448	0,075			2,305	0,116		
8097461	CCRN4L	CCR4 carbon catabolite repression 4-like (<i>S. cerevisiae</i>)					2,347	0,099	2,119	0,084
7928800	CCSER2	coiled-coil serine-rich protein 2					2,383	0,206		
8104449	CCT5	chaperonin containing TCP1, subunit 5 (epsilon)	2,034	0,075						
7904303	CD101	CD101 molecule					-2,134	0,061		
8120719	CD109	CD109 molecule	2,857	0,256						
8114612	CD14	CD14 molecule					-2,102	0,083		
7960794	CD163	CD163 molecule	2,655	0,053						
7921677	CD244	CD244 molecule, natural killer cell receptor 2B4	2,545	0,160						
8154233	CD274	CD274 molecule			-2,642	0,438	22,208	0,235	8,439	0,260
8120102	CD2AP	CD2-associated protein			-2,455	0,350				
8018169	CD300LB	CD300 molecule-like family member b	2,103	0,027						
7944179	CD3E	CD3e molecule, epsilon (CD3-TCR complex)			-2,526	0,278				
8089299	CD47	CD47 molecule					3,028	0,293		
7921667	CD48	CD48 molecule	2,201	0,174			2,908	0,449		
7940409	CD5	CD5 molecule	-2,225	0,216	-2,737	0,192				
7903893	CD53	CD53 molecule			-2,180	0,483	2,582	0,466		
7947425	CD59	CD59 molecule, complement regulatory protein			-2,277	0,430	2,182	0,405		
7940391	CD6	CD6 molecule	-2,025	0,133						
7961075	CD69	CD69 molecule	-2,099	0,403	-2,319	0,370	4,010	0,546		

8115147	CD74	CD74 molecule, major histocompatibility complex, class II invariant chain	-2,321	0,114	-2,324	0,183				
8116983	CD83	CD83 molecule					3,971	0,099	2,434	0,113
8034021	CDC37	cell division cycle 37					2,104	0,993		
8051573	CDC42EP3	CDC42 effector protein (Rho GTPase binding) 3					2,910	0,328		
8107868	CDC42SE2	CDC42 small effector 2			-4,312	0,368				
7968199	CDK8	cyclin-dependent kinase 8			-2,655	0,278				
8046086	CERS6	ceramide synthase 6					2,391	0,315		
7995729	CES1P1	carboxylesterase 1 pseudogene 1					2,119	0,161		
8179351	CFB	complement factor B					5,422	0,043	2,500	0,089
8020179	CHMP1B	charged multivesicular body protein 1B	2,041	0,206	2,418	0,123				
8154785	CHMP5	charged multivesicular body protein 5					2,024	0,621		
7982878	CHP1	calcineurin-like EF-hand protein 1							-2,024	0,149
8156290	CKS2	CDC28 protein kinase regulatory subunit 2	2,972	0,115	3,222	0,229				
7897774	CLCN6	chloride channel, voltage-sensitive 6			2,235	0,018				
7953901	CLEC12A	C-type lectin domain family 12, member A					3,528	0,254		
7953878	CLEC2D	C-type lectin domain family 2, member D	-3,316	0,334	-5,645	0,304	3,286	0,464		
7953723	CLEC4A	C-type lectin domain family 4, member A	2,186	0,170						
7960900	CLEC4E	C-type lectin domain family 4, member E			-2,270	0,503	3,781	0,355		
8143471	CLEC5A	C-type lectin domain family 5, member A							-2,038	0,290
7898988	CLIC4	chloride intracellular channel 4					2,667	0,163	3,023	0,066
7981142	CLMN	calmin (calponin-like, transmembrane)					-2,728	0,014		
8144279	CLN8	ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)	2,122	0,012						
7997427	CMIP	c-Maf inducing protein					-2,032	0,057		
8050102	CMPK2	cytidine monophosphate (UMP-CMP) kinase 2, mitochondrial					2,389	0,071		
7989128	CNOT6L	CCR4-NOT transcription complex, subunit 6-like			-2,404	0,371				
8149475	CNOT7	CCR4-NOT transcription complex, subunit			-2,218	0,358			-2,345	0,077

		7								
7988605	COPS2	COP9 signalosome subunit 2	2,010	0,301						
8003171	COTL1	coactosin-like 1 (Dictyostelium)	-2,273	0,148						
8089795	COX17	COX17 cytochrome c oxidase copper chaperone					3,088	0,273		
8168470	COX7B	cytochrome c oxidase subunit VIIb					2,100	0,293		
8006123	CPD	carboxypeptidase D					2,012	0,361		
8094169	CPEB2	cytoplasmic polyadenylation element binding protein 2					2,376	0,464		
7964834	CPM	carboxypeptidase M			-2,174	0,244	2,808	0,175		
8092836	CPN2	carboxypeptidase N, polypeptide 2	-2,339	0,170						
7976243	CPSF2	cleavage and polyadenylation specific factor 2, 100kDa					2,457	0,571		
7922051	CREG1	cellular repressor of E1A-stimulated genes 1					2,179	0,253		
8171105	CRLF2	cytokine receptor-like factor 2					2,003	0,273		
8006999	CSF3	colony stimulating factor 3 (granulocyte)					3,139	0,035	2,850	0,069
8017476	CSH1/CSH2	chorionic somatomammotropin hormone 1 (placental lactogen)					2,040	0,164		
8065403	CST3	cystatin C	-2,540	0,159						
7996593	CTCF	CCCTC-binding factor (zinc finger protein)					2,298	0,433		
7938422	CTR9	CTR9, Paf1/RNA polymerase II complex component			-2,366	0,367				
8149330	CTSB	cathepsin B					-2,337	0,067	-2,782	0,083
8156228	CTSL	cathepsin L	2,725	0,261			5,746	0,222		
7919800	CTSS	cathepsin S	2,738	0,235						
8067279	CTSZ	cathepsin Z			2,135	0,138				
8095697	CXCL1	chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha)					6,761	0,000	3,817	0,087
8101126	CXCL10	chemokine (C-X-C motif) ligand 10	-4,229	0,104					2,104	0,181
8011713	CXCL16	chemokine (C-X-C motif) ligand 16	-2,311	0,096	-2,026	0,343	-2,006	0,109	-2,021	0,175
8100994	CXCL2	chemokine (C-X-C motif) ligand 2	2,338	0,296	4,656	0,231	4,725	0,022	7,447	0,187

8100984	CXCL3	chemokine (C-X-C motif) ligand 3				2,257	0,002	3,748	0,137	
8100977	CXCL5	chemokine (C-X-C motif) ligand 5				2,493	0,059	2,054	0,037	
8055465	CXCR4	chemokine (C-X-C motif) receptor 4			-2,271	0,355	-2,987	0,072	-2,368	0,125
8004694	CYB5D1	cytochrome b5 domain containing 1			3,461	0,125		2,128	0,204	
8076481	CYB5R3	cytochrome b5 reductase 3	-2,281	0,115						
8120943	CYB5R4	cytochrome b5 reductase 4						-2,073	0,166	
8003322	CYBA	cytochrome b-245, alpha polypeptide				2,070	0,079			
8055980	CYTIP	cytohesin 1 interacting protein						-2,715	0,160	
8156199	DAPK1	death-associated protein kinase 1				2,171	0,553			
8000028	DCUN1D3	DCN1, defective in cullin neddylation 1, domain containing 3				2,884	0,030			
8178590	DDAH2	dimethylarginine dimethylaminohydrolase 2				-2,132	0,095			
7997059	DDX19A	DEAD (Asp-Glu-Ala-Asp) box polypeptide 19A				2,299	0,238			
8160559	DDX58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58				2,953	0,424			
8103563	DDX60	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60				2,969	0,387			
8103601	DDX60L	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60-like				5,376	0,471			
8149116	DEFA1 (includes others)	defensin, alpha 1	5,276	0,117	6,882	0,172				
7989849	DENND4A	DENN/MADD domain containing 4A				3,536	0,315			
8138602	DFNA5	deafness, autosomal dominant 5				4,125	0,157	3,250	0,053	
8015511	DHX58	DEXH (Asp-Glu-X-His) box polypeptide 58				2,818	0,066			
8168691	DIAPH2	diaphanous-related formin 2			2,180	0,153				
7981111	DICER1	dicer 1, ribonuclease type III				2,920	0,382			
7971653	DLEU2	deleted in lymphocytic leukemia 2 (non-protein coding)	-2,148	0,176						
8019954	DLGAP1-AS1	DLGAP1 antisense RNA 1				2,930	0,042	2,004	0,138	
7988789	DMXL2	Dmx-like 2				2,519	0,570			
7985147	DNAJA4	DnaJ (Hsp40) homolog, subfamily A, member 4	2,121	0,016						

8034837	DNAJB1	DnaJ (Hsp40) homolog, subfamily B, member 1	2,427	0,027	3,986	0,253				
8137627	DNAJB6	DnaJ (Hsp40) homolog, subfamily B, member 6					2,987	0,088	2,109	0,063
7969651	DNAJC3	DnaJ (Hsp40) homolog, subfamily C, member 3					3,960	0,230	2,459	0,181
7917771	DNTTIP2	deoxynucleotidyltransferase, terminal, interacting protein 2	2,885	0,181						
8142345	DOCK4	dedicator of cytokinesis 4					2,347	0,592		
8024391	DOT1L	DOT1-like histone H3K79 methyltransferase							2,144	0,158
7958019	DRAM1	DNA-damage regulated autophagy modulator 1					7,748	0,197	3,332	0,085
8121588	DSE	dermatan sulfate epimerase					2,066	0,502		
8082075	DTX3L	deltex 3-like (Drosophila)			-2,633	0,359	3,063	0,375		
8115831	DUSP1	dual specificity phosphatase 1					2,050	0,464		
8053046	DUSP11	dual specificity phosphatase 11 (RNA/RNP complex 1-interacting)			-2,361	0,346				
8053882	DUSP2	dual specificity phosphatase 2			3,034	0,289	2,618	0,007	2,832	0,282
7930413	DUSP5	dual specificity phosphatase 5					2,538	0,075		
7967067	DYNLL1	dynein, light chain, LC8-type 1	-2,490	0,152						
8077458	EDEM1	ER degradation enhancer, mannosidase alpha-like 1					2,575	0,331		
8132305	EEPD1	endonuclease/exonuclease/phosphatase family domain containing 1							-2,227	0,045
8148333	EFR3A	EFR3 homolog A (S. cerevisiae)	2,584	0,193						
8108370	EGR1	early growth response 1			2,464	0,191			2,699	0,161
7949264	EHD1	EH-domain containing 1					3,739	0,059	4,024	0,064
7939314	EHF	ets homologous factor					3,376	0,031	2,225	0,095
7958200	EID3	EP300 interacting inhibitor of differentiation 3	2,001	0,050						
8078962	EIF1B	eukaryotic translation initiation factor 1B							2,335	0,127
8051501	EIF2AK2	eukaryotic translation initiation factor 2-alpha kinase 2					6,233	0,515		

7939137	EIF3M	eukaryotic translation initiation factor 3, subunit M	2,033	0,291			2,342	0,719		
8101839	EIF4E	eukaryotic translation initiation factor 4E					2,389	0,350		
7977058	EIF5	eukaryotic translation initiation factor 5	2,570	0,196			2,382	0,447		
7934753	EIF5A	eukaryotic translation initiation factor 5A					3,035	0,577		
7928600	EIF5AL1	eukaryotic translation initiation factor 5A-like 1					3,302	0,565		
7957665	ELK3	ELK3, ETS-domain protein (SRF accessory protein 2)			-2,956	0,374				
7921344	ELL2	elongation factor, RNA polymerase II, 2					3,869	0,296	3,704	0,203
7915504	ELOVL1	ELOVL fatty acid elongase 1							-2,520	0,081
8112274	ELOVL7	ELOVL fatty acid elongase 7					4,291	0,139	4,689	0,072
8041592	EML4	echinoderm microtubule associated protein like 4					2,033	0,609	2,105	0,212
7954090	EMP1	epithelial membrane protein 1	2,097	0,347			4,271	0,454		
8025103	EMR1	egf-like module containing, mucin-like, hormone receptor-like 1					2,528	0,121		
8164269	ENG	endoglin	-2,619	0,120						
8010295	ENGASE	endo-beta-N-acetylglucosaminidase	2,065	0,084	3,134	0,115				
8086148	EPM2AIP1	EPM2A (laforin) interacting protein 1			-2,674	0,425				
7971296	EPSTI1	epithelial stromal interaction 1 (breast)					2,284	0,711		
8095728	EREG	epiregulin	2,047	0,226	2,902	0,167	4,196	0,088	3,137	0,139
7979179	ERO1L	ERO1-like (<i>S. cerevisiae</i>)			-2,057	0,483				
7897288	ESPN	espin	-2,202	0,077						
7952601	ETS1	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	-2,774	0,336	-3,730	0,261				
8068593	ETS2	v-ets erythroblastosis virus E26 oncogene homolog 2 (avian)					4,473	0,178	3,880	0,162
7921228	ETV3	ets variant 3					3,357	0,201		
8014066	EVI2A	ecotropic viral integration site 2A							-2,009	0,152
8014063	EVI2B	ecotropic viral integration site 2B					-2,829	0,125	-2,375	0,229
8002344	EXOSC6	exosome component 6	-2,243	0,097						0,096

8143663	EZH2	enhancer of zeste homolog 2 (Drosophila)			2,159	0,137	2,307	0,181
7917875	F3	coagulation factor III (thromboplastin, tissue factor)			4,866	0,238	4,345	11,850
7923917	FAIM3	Fas apoptotic inhibitory molecule 3			-2,036	0,092		
8164343	FAM102A	family with sequence similarity 102, member A	-2,201	0,217				
7903507	FAM102B	family with sequence similarity 102, member B					-2,209	0,224
8136940	FAM115C	family with sequence similarity 115, member C			-2,216	0,197		
8138553	FAM126A	family with sequence similarity 126, member A			-2,045	0,485	2,770	0,381
8175299	FAM127C	family with sequence similarity 127, member C	-2,605	0,079				
7922846	FAM129A	family with sequence similarity 129, member A					4,229	0,125
8063531	FAM209B	family with sequence similarity 209, member B			2,224	0,027		
8050427	FAM49A	family with sequence similarity 49, member A					3,887	0,349
7962146	FAM60A	family with sequence similarity 60, member A					3,226	0,420
7906767	FCGR2C	Fc fragment of IgG, low affinity IIc, receptor for (CD32) (gene/pseudogene)	2,047	0,254				
7921873	FCGR3B	Fc fragment of IgG, low affinity IIIb, receptor (CD16b)					-2,025	0,098
7950248	FCHSD2	FCH and double SH3 domains 2					2,317	0,390
8165011	FCN1	ficolin (collagen/fibrinogen domain containing) 1	2,093	0,133				
7915147	FHL3	four and a half LIM domains 3					-2,217	0,037
8001981	FHOD1	formin homology 2 domain containing 1					-2,454	0,020
8029847	FKRP	fukutin related protein	-2,428	0,063				
8007757	FMNL1	formin-like 1					-2,161	0,015
7963092	FMNL3	formin-like 3						2,157
8164607	FNBP1	formin binding protein 1					2,532	0,200
							2,044	0,180

8083901	FNDC3B	fibronectin type III domain containing 3B				2,181	0,525		
8098103	FNIP2	folliculin interacting protein 2	3,240	0,204		5,670	0,239		
7975779	FOS	FBJ murine osteosarcoma viral oncogene homolog			2,724	0,079			
8029693	FOSB	FBJ murine osteosarcoma viral oncogene homolog B			2,373	0,153			
8013307	FOXO3B	forkhead box O3B pseudogene				2,025	0,424		
8030860	FPR2	formyl peptide receptor 2			-2,196	0,241	2,096	0,321	
8030866	FPR3	formyl peptide receptor 3					-3,804	0,011	-2,857 0,129
8157058	FSD1L	fibronectin type III and SPRY domain containing 1-like				2,058	0,188		
8030171	FTL	ferritin, light polypeptide			2,901	0,131			
8119198	FTSJD2	FtsJ methyltransferase domain containing 2				2,691	0,530		
7913694	FUCA1	fucosidase, alpha-L- 1, tissue	4,408	0,128					-4,256 0,103
8084146	FXR1	fragile X mental retardation, autosomal homolog 1				2,194	0,852		
8027778	FXVD5	FXVD domain containing ion transport regulator 5	-2,005	0,175					
7951977	FXVD6	FXVD domain containing ion transport regulator 6				2,043	0,932		
8084986	FYTTD1	forty-two-three domain containing 1			-2,423	0,341			
7909441	G0S2	G0/G1switch 2				2,008	0,119	2,740	0,254
8024485	GADD45B	growth arrest and DNA-damage-inducible, beta				2,511	0,152		
8156309	GADD45G	growth arrest and DNA-damage-inducible, gamma			2,803	0,055			
8132070	GARS	glycyl-tRNA synthetase	2,947	0,086					
7917516	GBP1	guanylate binding protein 1, interferon-inducible			-2,953	0,283	5,586	0,236	2,385 0,146
7917532	GBP2	guanylate binding protein 2, interferon-inducible				2,746	0,331	2,745	0,123

7917561	GBP4	guanylate binding protein 4			-5,329	0,252	4,935	0,283		
7917576	GBP5	guanylate binding protein 5	-2,275	0,100	-3,039	0,256				
7979269	GCH1	GTP cyclohydrolase 1					3,754	0,239	3,522	0,047
8127158	GCLC	glutamate-cysteine ligase, catalytic subunit	2,691	0,133						
7917779	GCLM	glutamate-cysteine ligase, modifier subunit			2,098	0,088				
8000284	GGA2	golgi-associated, gamma adaptin ear containing, ARF binding protein 2							-2,200	0,081
8137240	GIMAP7	GTPase, IMAP family member 7			-2,672	0,220				
7970441	GJB2	gap junction protein, beta 2, 26kDa					2,215	0,004		
8103535	GK3P	glycerol kinase 3 pseudogene					3,621	0,218		
7957260	GLIPR1	GLI pathogenesis-related 1					3,131	0,545		
8113214	GLRX	glutaredoxin (thioltransferase)			-2,652	0,395				
8083523	GMPS	guanine monphosphate synthase			-2,509	0,312				
7903703	GNAI3	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3	2,534	0,134						
8161906	GNAQ	guanine nucleotide binding protein (G protein), q polypeptide					2,485	0,832		
8134257	GNG11	guanine nucleotide binding protein (G protein), gamma 11	-2,441	0,067						
7974341	GNG2	guanine nucleotide binding protein (G protein), gamma 2			-2,651	0,249	4,152	0,159	2,327	0,076
8064868	GPCPD1	glycerophosphocholine phosphodiesterase GDE1 homolog (S. cerevisiae)							-2,282	0,247
8099631	GPR125	G protein-coupled receptor 125			-2,154	0,469				0,236
7910680	GPR137B	G protein-coupled receptor 137B					3,114	0,261		
7999916	GPR139	G protein-coupled receptor 139	-2,468	0,165						
8125373	GPSM3	G-protein signaling modulator 3	-2,337	0,129						
8027701	GRAMD1A	GRAM domain containing 1A					5,435	0,004	5,523	0,119

8148694	GRINA	glutamate receptor, ionotropic, N-methyl D-aspartate-associated protein 1 (glutamate binding)	-2,329	0,107	-2,293	0,107	2,634	0,196	2,167	0,191
8150112	GSR	glutathione reductase	2,156	0,103						
7917472	GTF2B	general transcription factor IIB					2,900	0,473		
7962194	H3F3C	H3 histone, family 3C					5,002	0,414		
7946033	HBB	hemoglobin, beta	3,268	0,337						
7967318	HCAR2	hydroxycarboxylic acid receptor 2					2,057	0,178		
7967322	HCAR3	hydroxycarboxylic acid receptor 3	2,985	0,156	2,537	0,198	2,914	0,054	2,016	0,287
8061668	HCK	hemopoietic cell kinase					5,387	0,081		
8067680	HELZ2	helicase with zinc finger 2, transcriptional coactivator					2,926	0,003		
8096361	HERC5	HECT and RLD domain containing E3 ubiquitin protein ligase 5			-4,029	0,215	4,559	0,333		
8096335	HERC6	HECT and RLD domain containing E3 ubiquitin protein ligase family member 6			-2,692	0,292	3,345	0,279		
7903294	HIAT1	hippocampus abundant transcript 1			-3,041	0,436	3,130	0,464		
7974851	HIF1A	hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)					2,735	0,478		
8117330	HIST1H3A (includes others)	histone cluster 1, H3a	2,813	0,017	3,871	0,054	2,193	0,726		
7919619	HIST2H2AC	histone cluster 2, H2ac			2,188	0,246				
7919606	HIST2H2BF	histone cluster 2, H2bf			2,703	0,097				
8116910	HIVEP1	human immunodeficiency virus type I enhancer binding protein 1					2,584	0,409		
8129953	HIVEP2	human immunodeficiency virus type I enhancer binding protein 2					3,673	0,221	3,419	0,147
8118556	HLA-DQA1	major histocompatibility complex, class II, DQ alpha 1			-3,176	0,359	2,246	0,578		
7909890	HLX	H2.0-like homeobox					2,314	0,025		
7913682	HMGCL	3-hydroxymethyl-3-methylglutaryl-CoA lyase	2,226	0,094						

8111941	HMGCS1	3-hydroxy-3-methylglutaryl-CoA synthase 1 (soluble)					2,622	0,299		
8138670	HNRNPA2B1	heterogeneous nuclear ribonucleoprotein A2/B1					2,326	0,675		
7977657	HNRNPC	heterogeneous nuclear ribonucleoprotein C (C1/C2)					3,429	0,068	2,073	0,205
8168852	HNRNPH2	heterogeneous nuclear ribonucleoprotein H2 (H')					3,968	0,437		
8162047	HNRNPK	heterogeneous nuclear ribonucleoprotein K					2,382	0,729		
8101449	HPSE	heparanase					-2,347	0,044		
8005097	HS3ST3B1	heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1					3,016	0,098	2,136	0,127
8101648	HSD17B11	hydroxysteroid (17-beta) dehydrogenase 11	2,363	0,272					-2,226	0,211
7981335	HSP90AA1	heat shock protein 90kDa alpha (cytosolic), class A member 1	2,467	0,072	3,574	0,206				
8119993	HSP90AB1	heat shock protein 90kDa alpha (cytosolic), class B member 1					2,243	0,683		
7958130	HSP90B1	heat shock protein 90kDa beta (Grp94), member 1					2,484	0,715		
8069532	HSPA13	heat shock protein 70kDa family, member 13					2,013	0,389		
8178086	HSPA1A/HSPA1B	heat shock 70kDa protein 1A	2,255	0,004	4,482	0,173			2,000	0,331
7975076	HSPA2	heat shock 70kDa protein 2			2,815	0,360				
7906764	HSPA6	heat shock 70kDa protein 6 (HSP70B')	2,804	0,020	4,648	0,238				
7952325	HSPA8	heat shock 70kDa protein 8					2,626	0,903		
8114455	HSPA9	heat shock 70kDa protein 9 (mortalin)	2,141	0,147			2,755	0,512		
8133721	HSPB1	heat shock 27kDa protein 1	-3,584	0,350						
7970864	HSPH1	heat shock 105kDa/110kDa protein 1	3,240	0,035	3,723	0,186				
8162313	IARS	isoleucyl-tRNA synthetase	2,567	0,147						
8025601	ICAM1	intercellular adhesion molecule 1					4,176	0,189	3,535	0,135
8025612	ICAM4	intercellular adhesion molecule 4	3,601	0,145	6,736	0,216			2,013	0,392

		(Landsteiner-Wiener blood group)						
8061564	ID1	inhibitor of DNA binding 1, dominant negative helix-loop-helix protein	2,161	0,346				
8040103	ID2	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein					2,317	0,089
8146092	IDO1	indoleamine 2,3-dioxygenase 1			6,110	0,120	3,032	0,057
8178435	IER3	immediate early response 3					3,733	0,147
7906400	IFI16	interferon, gamma-inducible protein 16	-2,213	0,297				
8026971	IFI30	interferon, gamma-inducible protein 30			-2,744	0,008	-2,494	0,093
7902553	IFI44	interferon-induced protein 44	-2,323	0,354	8,625	0,359		
7902541	IFI44L	interferon-induced protein 44-like	-2,990	0,226	4,704	0,573		
7914127	IFI6	interferon, alpha-inducible protein 6			2,400	0,192		
8056285	IFIH1	interferon induced with helicase C domain 1			3,596	0,310		
7929065	IFIT1	interferon-induced protein with tetratricopeptide repeats 1	-3,302	0,244	4,767	0,562		
7929047	IFIT2	interferon-induced protein with tetratricopeptide repeats 2			10,675	0,652		
7929052	IFIT3	interferon-induced protein with tetratricopeptide repeats 3	-3,112	0,229	4,758	0,235		
7929072	IFIT5	interferon-induced protein with tetratricopeptide repeats 5			2,802	0,346		
7937335	IFITM1	interferon induced transmembrane protein 1	-3,331	0,305				
7945663	IFITM10	interferon induced transmembrane protein 10	2,221	0,340				
7945371	IFITM3	interferon induced transmembrane protein 3			2,342	0,284		
8068266	IFNAR1	interferon (alpha, beta and omega) receptor 1			2,715	0,397		
8132819	IKZF1	IKAROS family zinc finger 1 (Ikaros)	-2,201	0,317				
7923907	IL10	interleukin 10			5,263	0,141	2,542	0,120
8068254	IL10RB	interleukin 10 receptor, beta	-2,049	0,478				

7931899	IL15RA	interleukin 15 receptor, alpha					2,783	0,029		
7909250	IL19	interleukin 19					6,437	0,144	2,872	0,163
8054712	IL1A	interleukin 1, alpha					24,478	0,042	31,380	0,066
8054722	IL1B	interleukin 1, beta	2,046	0,411			11,978	0,011	11,216	0,029
8043995	IL1R1	interleukin 1 receptor, type I	2,300	0,362	-2,506	0,508	4,216	0,362	4,533	0,151
8044574	IL1RN	interleukin 1 receptor antagonist					8,167	0,168		
7956251	IL23A	interleukin 23, alpha subunit p19							2,128	0,164
7931914	IL2RA	interleukin 2 receptor, alpha			-2,990	0,385	4,991	0,278	3,290	0,070
8075886	IL2RB	interleukin 2 receptor, beta			-2,435	0,305				
8173444	IL2RG	interleukin 2 receptor, gamma			-2,110	0,378				
8044541	IL36G	interleukin 36, gamma					4,139	0,020	4,359	0,043
7994280	IL4R	interleukin 4 receptor					2,334	0,362		
8131803	IL6	interleukin 6 (interferon, beta 2)	2,666	0,356			62,791	0,002	49,594	0,087
8112139	IL6ST	interleukin 6 signal transducer (gp130, oncostatin M receptor)					3,242	0,586		
8104901	IL7R	interleukin 7 receptor	-2,919	0,308	-4,678	0,348	7,067	0,318	3,777	0,220
8095680	IL8	interleukin 8					10,901	0,003	4,713	0,092
8139207	INHBA	inhibin, beta A					14,761	0,061	7,519	0,138
8043791	INPP4A	inositol polyphosphate-4-phosphatase, type I, 107kDa							-2,001	0,056
8137526	INSIG1	insulin induced gene 1	2,518	0,171			2,029	0,432		
8130408	IPCEF1	interaction protein for cytohesin exchange factors 1			-2,241	0,381				
7986010	IQGAP1	IQ motif containing GTPase activating protein 1					2,355	0,628		
8106354	IQGAP2	IQ motif containing GTPase activating protein 2					5,114	0,298		
8077786	IRAK2	interleukin-1 receptor-associated kinase 2			2,212	0,215	2,957	0,072	3,016	0,150
7985166	IREB2	iron-responsive element binding protein 2					2,227	0,715		
8103911	IRF2	interferon regulatory factor 2					2,815	0,468		
7997712	IRF8	interferon regulatory factor 8			2,374	0,100				
7969482	IRG1	immunoresponsive 1 homolog (mouse)			-3,627	0,306	22,894	0,188	5,235	0,076

7896817	ISG15	ISG15 ubiquitin-like modifier					4,140	0,037		
7985777	ISG20	interferon stimulated exonuclease gene 20kDa					2,224	0,083		
8011430	ITGAE	integrin, alpha E (antigen CD103, human mucosal lymphocyte antigen 1; alpha polypeptide)					-2,006	0,031		
8131666	ITGB8	integrin, beta 8	2,081	0,194			25,062	0,139	6,751	0,086
8109507	ITK	IL2-inducible T-cell kinase	-4,037	0,302	-11,205	0,313	4,480	0,466		
7969003	ITM2B	integral membrane protein 2B			-2,183	0,295				
8114938	JAKMIP2	janus kinase and microtubule interacting protein 2	3,605	0,098					-2,118	0,128
8143341	JHDM1D	jumonji C domain containing histone demethylase 1 homolog D (<i>S. cerevisiae</i>)			-2,107	0,521	2,539	0,465		
7933877	JMJD1C	jumonji domain containing 1C	2,182	0,336			2,306	0,906		
7916609	JUN	jun proto-oncogene			3,457	0,148				
8026047	JUNB	jun B proto-oncogene					2,432	0,886		
8154012	KANK1	KN motif and ankyrin repeat domains 1					2,895	0,153	3,011	0,093
8080911	KBTBD8	kelch repeat and BTB (POZ) domain containing 8	2,649	0,119						
7918457	KCNA3	potassium voltage-gated channel, shaker- related subfamily, member 3			-2,240	0,395				
8009502	KCNJ2	potassium inwardly-rectifying channel, subfamily J, member 2					6,696	0,063	5,976	0,115
7971486	KIAA0226L	KIAA0226-like			-2,443	0,399	4,707	0,283		
7975361	KIAA0247	KIAA0247					2,472	0,256		
8076690	KIAA0930	KIAA0930					-2,057	0,016		
7985317	KIAA1199	KIAA1199			-2,436	0,277	2,241	0,295		
7954711	KIAA1551	KIAA1551							-2,345	0,197
8035435	KIAA1683	KIAA1683			2,081	0,068				
7912511	KIAA2013	KIAA2013					3,472	0,237		
8160011	KIAA2026	KIAA2026			-2,071	0,324	2,406	0,492		
8163002	KLF4	Kruppel-like factor 4 (gut)			2,156	0,163				

7898533	KLHDC7A	kelch domain containing 7A				2,178	0,230		
7910950	KMO	kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)	2,303	0,173		4,717	0,269	3,437	0,132
8135277	KMT2E	lysine (K)-specific methyltransferase 2E				2,163	0,608		
7971620	KPNA3	karyopherin alpha 3 (importin alpha 4)			-2,724	0,340	2,482	0,487	
8015262	KRT33B	keratin 33B	-2,675	0,209					
8069150	KRTAP10-9	keratin associated protein 10-9	-2,194	0,165					
8015187	KRTAP1-4	keratin associated protein 1-4	-2,214	0,066					
8045539	KYNU	kynureninase				2,266	0,645		
8039257	LAIR1	leukocyte-associated immunoglobulin- like receptor 1			-3,057	0,204	2,651	0,469	
8092348	LAMP3	lysosomal-associated membrane protein 3				2,324	0,139		
7950119	LAMTOR1	late endosomal/lysosomal adaptor, MAPK and MTOR activator 1	-2,048	0,174					
8050548	LAPTM4A	lysosomal protein transmembrane 4 alpha						-2,346	0,191
7971461	LCP1	lymphocyte cytosolic protein 1 (L-plastin)				2,293	0,451		
8115734	LCP2	lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa)				2,032	0,472		
7961693	LDHB	lactate dehydrogenase B				2,201	0,555		
8102232	LEF1	lymphoid enhancer-binding factor 1	-3,635	0,268	-7,801	0,251	2,538	0,488	
8145652	LEPROTL1	leptin receptor overlapping transcript-like 1			-2,344	0,226			
8039226	LILRA3	leukocyte immunoglobulin-like receptor, subfamily A (without TM domain), member 3			-2,413	0,142			
8039236	LILRA5	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 5			-2,035	0,216			
8031223	LILRB1	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 1			-2,291	0,009	2,359	0,185	

8039212	LILRB2	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 2			-3,062	0,097			
8039196	LILRB3	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3					2,345	0,144	
8072461	LIMK2	LIM domain kinase 2					3,238	0,084	
7972826	LINC00346	long intergenic non-protein coding RNA 346			2,367	0,054			2,229 0,093
7928999	LIPN	lipase, family member N					3,887	0,719	
8107066	LNPEP	leucyl/cystinyl aminopeptidase			-2,413	0,198			
7898353	LOC100133301	UPF0627 protein ENSP00000364708	-3,401	0,295					2,261 0,111
8002333	LOC100271836	smg-1 homolog, phosphatidylinositol 3-kinase-related kinase (C. elegans) pseudogene					2,219	0,622	
8001457	LOC100653057	liver carboxylesterase 1-like					4,084	0,027	
8099965	LOC344967	acyl-CoA thioesterase 7 pseudogene					2,648	0,663	
8138542	LOC541472	uncharacterized LOC541472					3,517	0,013	2,590 0,064
8000638	LOC595101	smg-1 homolog, phosphatidylinositol 3-kinase-related kinase (C. elegans) pseudogene					2,430	0,621	
7905028	LOC645166	lymphocyte-specific protein 1 pseudogene	-2,076	0,156			-2,033	0,113	
8085000	LRCH3	leucine-rich repeats and calponin homology (CH) domain containing 3					2,264	0,436	
8152280	LRP12	low density lipoprotein receptor-related protein 12					2,380	0,268	
8070961	LSS	lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)					2,282	0,003	2,918 0,060
8148572	LY6E	lymphocyte antigen 6 complex, locus E			-2,353	0,100			
8116734	LY86	lymphocyte antigen 86	2,038	0,228					
8146500	LYN	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog					4,509	0,264	

7960933	M6PR	mannose-6-phosphate receptor (cation dependent)	2,385	0,067					
7951133	MAML2	mastermind-like 2 (Drosophila)				2,316	0,389		
8129804	MAP3K5	mitogen-activated protein kinase kinase kinase 5				2,080	0,335		
7926900	MAP3K8	mitogen-activated protein kinase kinase kinase 8				3,383	0,115	2,448	0,151
8043945	MAP4K4	mitogen-activated protein kinase kinase kinase kinase 4				2,031	0,333		
7978997	MAP4K5	mitogen-activated protein kinase kinase kinase kinase 5			-2,101	0,477	2,031	0,539	
7974455	MAPK1IP1L	mitogen-activated protein kinase 1 interacting protein 1-like			-2,130	0,356			
7983763	MAPK6	mitogen-activated protein kinase 6	2,145	0,272	2,150	0,191			
8121563	MARCKS	myristoylated alanine-rich protein kinase C substrate				3,946	0,024	2,965	0,076
8051998	MCFD2	multiple coagulation factor deficiency 2	2,155	0,041					
7917283	MCOLN2	mucolipin 2				3,453	0,088	2,651	0,232
7986293	MCTP2	multiple C2 domains, transmembrane 2				2,476	0,230	2,280	0,181
7956989	MDM2	MDM2 oncogene, E3 ubiquitin protein ligase				2,156	0,712		
7998940	MEFV	Mediterranean fever				3,061	0,203		
8010897	METRNL	meteorin, glial cell differentiation regulator-like	-2,189	0,187					
7900365	MFSD2A	major facilitator superfamily domain containing 2A				2,907	0,134	2,414	0,090
8136662	MGAM	maltase-glucoamylase (alpha-glucosidase)				2,073	0,194		
8116484	MGAT1	mannosyl (alpha-1,3)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase			2,080	0,089			
8123606	MGC39372	serpin peptidase inhibitor, clade B (ovalbumin), member 9 pseudogene				3,912	0,047	3,644	0,152

8011218	mir-132	microRNA 132			2,998	0,097				
8016980	mir-142	microRNA 142					-2,264	0,107		
8109649	mir-146	microRNA 146a			3,068	0,150	3,805	0,039	7,026	0,084
8068022	mir-155	microRNA 155	2,832	0,250	3,088	0,214	26,935	0,081	23,027	0,112
8087252	mir-191	microRNA 191			2,486	0,306				
8008885	mir-21	microRNA 21					2,564	0,743		
8172266	mir-221	microRNA 221							2,041	0,104
8034694	mir-24	microRNA 24-1	2,190	0,227	2,693	0,290				
8034696	mir-27	microRNA 27a			3,534	0,214				
8087250	mir-425	microRNA 425			2,595	0,249				
7921012	mir-9	microRNA 9-1							2,016	0,315
8016832	MMD	monocyte to macrophage differentiation-associated	-2,185	0,107						
7973336	MMP14	matrix metalloproteinase 14 (membrane-inserted)					3,575	0,001	2,430	0,079
8004521	MPDU1	mannose-P-dolichol utilization defect 1	2,332	0,072	2,408	0,240				
7948364	MPEG1	macrophage expressed 1							-2,097	0,108
7907092	MPZL1	myelin protein zero-like 1					2,302	0,285		
8006762	MRPL45	mitochondrial ribosomal protein L45					2,232	0,135		
8068353	MRPS6	mitochondrial ribosomal protein S6					2,046	0,308		
8156897	MSANTD3	Myb/SANT-like DNA-binding domain containing 3					3,034	0,089	2,934	0,046
8151334	MSC	musculin							2,235	0,230
8166015	MSL3	male-specific lethal 3 homolog (Drosophila)			-2,219	0,252	3,980	0,551		
8169949	MST4	serine/threonine protein kinase MST4	2,192	0,200			5,481	0,165	2,035	0,165
7915091	MTF1	metal-regulatory transcription factor 1					3,344	0,250	2,103	0,140
8042830	MTHFD2	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase	2,470	0,070			2,611	0,246		
8068713	MX1	myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse)			-2,259	0,199	6,127	0,203		

8068697	MX2	myxovirus (influenza virus) resistance 2 (mouse)					5,373	0,267		
8139433	MYO1G	myosin IG					4,594	0,369		
8001317	N4BP1	NEDD4 binding protein 1					3,695	0,276		
8047161	NABP1	nucleic acid binding protein 1					3,894	0,438		
7933084	NAMPT	nicotinamide phosphoribosyltransferase	2,902	0,294			7,024	0,183	2,326	0,337
8151711	NBN	nibrin							2,139	0,160
7927536	NCOA4	nuclear receptor coactivator 4					2,377	0,796		
7934459	NDST2	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2					2,310	0,402		
8021376	NEDD4L	neural precursor cell expressed, developmentally down-regulated 4-like, E3 ubiquitin protein ligase					2,142	0,366		
7908543	NEK7	NIMA-related kinase 7					2,035	0,485		
7962455	NELL2	NEL-like 2 (chicken)	-2,765	0,299	-2,957	0,049				
7978905	NEMF	nuclear export mediator factor							2,512	0,449
8114245	NEUROG1	neurogenin 1	-2,096	0,084						
7996954	NFAT5	nuclear factor of activated T-cells 5, tonicity-responsive					2,205	0,316	2,140	0,270
8067040	NFATC2	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2			-2,167	0,296				
8056977	NFE2L2	nuclear factor (erythroid-derived 2)-like 2					3,624	0,371		
8096635	NFKB1	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1					6,719	0,175	3,295	0,134
7930074	NFKB2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)							2,078	0,151
7978644	NFKBIA	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha					5,538	0,065	4,148	0,107
8036207	NFKBID	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, delta			2,300	0,148				
8081386	NFKBIZ	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta					3,038	0,218	3,341	0,129

8162455	NINJ1	ninjurin 1				3,287	0,163	2,199	0,128
7986675	NIPA1	non imprinted in Prader-Willi/Angelman syndrome 1				2,067	0,143		
7911178	NLRP3	NLR family, pyrin domain containing 3				2,521	0,221	4,635	0,150
8055702	NMI	N-myc (and STAT) interactor				2,117	0,262		
7904702	NOTCH2NL	notch 2 N-terminal like			2,415	0,158			
8022531	NPC1	Niemann-Pick disease, type C1	2,714	0,170					
8059739	NPPC	natriuretic peptide C	-2,413	0,087					
8055952	NR4A2	nuclear receptor subfamily 4, group A, member 2			2,314	0,231			
7944876	NRGN	neurogranin (protein kinase C substrate, RC3)	-2,833	0,025					
8150928	NSMAF	neutral sphingomyelinase (N-SMase) activation associated factor	2,335	0,229					
7936064	NT5C2	5'-nucleotidase, cytosolic II				2,495	0,773		
8169352	NXT2	nuclear transport factor 2-like export factor 2				2,531	0,242		
7958884	OAS1	2'-5'-oligoadenylate synthetase 1, 40/46kDa			-2,663	0,236	4,571	0,311	
7958913	OAS2	2'-5'-oligoadenylate synthetase 2, 69/71kDa			-4,925	0,238	8,594	0,263	
7958895	OAS3	2'-5'-oligoadenylate synthetase 3, 100kDa				3,965	0,110		
7967117	OASL	2'-5'-oligoadenylate synthetase-like				3,235	0,039		
8120602	OGFRL1	opioid growth factor receptor-like 1				3,022	0,312		
7961142	OLR1	oxidized low density lipoprotein (lectin-like) receptor 1			-2,143	0,480			
7926239	OPTN	optineurin				2,002	0,142		
8161166	OR2S2	olfactory receptor, family 2, subfamily S, member 2	-2,207	0,053					
7926677	OTUD1	OTU domain containing 1			2,308	0,124			
7959267	P2RX4	purinergic receptor P2X, ligand-gated ion channel, 4						2,013	0,321
7934278	P4HA1	prolyl 4-hydroxylase, alpha polypeptide I			-2,236	0,465			

8019250	P4HB	prolyl 4-hydroxylase, beta polypeptide				2,123	0,545		
8084963	PAK2	p21 protein (Cdc42/Rac)-activated kinase 2			-2,101	0,535			
7943218	PANX1	pannexin 1					2,159	0,299	
7928944	PAPSS2	3'-phosphoadenosine 5'-phosphosulfate synthase 2					2,108	0,342	
7897404	PARK7	parkinson protein 7					3,098	0,472	
8143327	PARP12	poly (ADP-ribose) polymerase family, member 12					2,809	0,265	
8082100	PARP14	poly (ADP-ribose) polymerase family, member 14					6,345	0,417	
8090018	PARP9	poly (ADP-ribose) polymerase family, member 9			-2,926	0,294	4,021	0,393	
7930454	PDCD4	programmed cell death 4 (neoplastic transformation inhibitor)			-3,722	0,295	2,131	0,610	
7902104	PDE4B	phosphodiesterase 4B, cAMP-specific							2,103
7904965	PDE4DIP	phosphodiesterase 4D interacting protein					2,298	0,241	2,008
7983274	PDIA3	protein disulfide isomerase family A, member 3			-2,012	0,451			
7904881	PDIA3P	protein disulfide isomerase family A, member 3 pseudogene			-2,033	0,476			
8046408	PDK1	pyruvate dehydrogenase kinase, isozyme 1							
8052654	PELI1	pellino E3 ubiquitin protein ligase 1					11,370	0,115	4,395
8100966	PF4	platelet factor 4			-2,015	0,026			
7926037	PFKFB3	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3					4,041	0,093	2,942
7897620	PGD	phosphogluconate dehydrogenase	2,044	0,218					
8168500	PGK1	phosphoglycerate kinase 1			-2,047	0,486			
7899455	PHACTR4	phosphatase and actin regulator 4			-2,008	0,291			
7969129	PHF11	PHD finger protein 11					3,292	0,305	
8163807	PHF19	PHD finger protein 19			3,381	0,188	2,263	0,202	5,298
8120441	PHF3	PHD finger protein 3			-2,361	0,222			

8171418	PIGA	phosphatidylinositol glycan anchor biosynthesis, class A				2,066	0,325		
7935337	PIK3AP1	phosphoinositide-3-kinase adaptor protein 1				2,551	0,296	2,232	0,123
8105778	PIK3R1	phosphoinositide-3-kinase, regulatory subunit 1 (alpha)				2,733	0,400		
8119161	PIM1	pim-1 oncogene				2,212	0,037		
8073960	PIM3	pim-3 oncogene				2,050	0,010	2,035	0,135
8075130	PITPNB	phosphatidylinositol transfer protein, beta				2,190	0,704		
7908351	PLA2G4A	phospholipase A2, group IVA (cytosolic, calcium-dependent)				2,675	0,212		
8126784	PLA2G7	phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma)			-4,209	0,343			
8101429	PLAC8	placenta-specific 8				8,609	0,164	4,896	0,103
8037374	PLAUR	plasminogen activator, urokinase receptor				2,402	0,314	2,127	0,261
7961440	PLBD1	phospholipase B domain containing 1	2,134	0,164					
8092134	PLD1	phospholipase D1, phosphatidylcholine-specific				3,942	0,055	2,887	0,060
8042391	PLEK	pleckstrin				3,240	0,223	2,375	0,177
8045247	PLEKHB2	pleckstrin homology domain containing, family B (evectins) member 2	2,803	0,022		2,234	0,399		
8058512	PLEKHM3	pleckstrin homology domain containing, family M, member 3						2,491	0,097
8167449	PLP2	proteolipid protein 2 (colonic epithelium-enriched)				-2,224	0,066	-2,384	0,119
8091327	PLSCR1	phospholipid scramblase 1				3,032	0,364		
8021470	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1				2,784	0,038	3,285	0,080
8067233	PMEPA1	prostate transmembrane protein, androgen induced 1	-2,322	0,063					
7984779	PML	promyelocytic leukemia			-2,617	0,102	3,271	0,096	

7973067	PNP	purine nucleoside phosphorylase					3,045	0,519		
8142307	PNPLA8	patatin-like phospholipase domain containing 8	2,813	0,176			2,703	0,355		
8052331	PNPT1	polyribonucleotide nucleotidyltransferase 1					4,759	0,405		
8121076	PNRC1	proline-rich nuclear receptor coactivator 1							2,181	0,107
7898910	PNRC2	proline-rich nuclear receptor coactivator 2	2,076	0,286			2,502	0,674		
8077899	PPARG	peroxisome proliferator-activated receptor gamma	2,346	0,094						
8100971	PPBP	pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)	-3,919	0,237	-2,588	0,232	2,235	0,847		
7919436	PPIAL4G (includes others)	peptidylprolyl isomerase A (cyclophilin A)-like 4E					2,342	0,658		
7966368	PPP1CC	protein phosphatase 1, catalytic subunit, gamma isozyme			-1,824	0,492			-2,549	0,101
8030128	PPP1R15A	protein phosphatase 1, regulatory subunit 15A					2,205	0,122	2,313	0,227
7923659	PPP1R15B	protein phosphatase 1, regulatory subunit 15B					2,285	0,189	2,266	0,156
8132182	PPP1R17	protein phosphatase 1, regulatory subunit 17			-3,186	0,118	2,375	0,152		
8145136	PPP3CC	protein phosphatase 3, catalytic subunit, gamma isozyme					2,659	0,265		
8052721	PPP3R1	protein phosphatase 3, regulatory subunit B, alpha	2,571	0,190	2,244	0,124				
8080973	PPP4R2	protein phosphatase 4, regulatory subunit 2					2,075	0,396		
8096032	PRDM8	PR domain containing 8					2,195	0,151		
8135378	PRKAR2B	protein kinase, cAMP-dependent, regulatory, type II, beta	-2,096	0,236	-2,074	0,158				
8080487	PRKCD	protein kinase C, delta					2,088	0,690		
7931930	PRKCQ	protein kinase C, theta	-2,118	0,095	-2,104	0,183				
7907310	PRRC2C	proline-rich coiled-coil 2C					2,203	0,546		

7985202	PSMA4	proteasome (prosome, macropain) subunit, alpha type, 4			2,275	0,503		
7973936	PSMA6	proteasome (prosome, macropain) subunit, alpha type, 6	2,084	0,070	2,595	0,151		
8006812	PSMB3	proteasome (prosome, macropain) subunit, beta type, 3			-2,333	0,366		
7974380	PSMC6	proteasome (prosome, macropain) 26S subunit, ATPase, 6			3,502	0,482		
8006392	PSMD11	proteasome (prosome, macropain) 26S subunit, non-ATPase, 11			2,310	0,556		
8163795	PSMD5	proteasome (prosome, macropain) 26S subunit, non-ATPase, 5			2,696	0,339	2,012	0,113
8023043	PSTPIP2	proline-serine-threonine phosphatase interacting protein 2			5,963	0,085	5,897	0,093
7974366	PTGER2	prostaglandin E receptor 2 (subtype EP2), 53kDa			2,879	0,438		
7922976	PTGS2	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	2,614	0,299	14,360	0,087	8,300	0,119
8022393	PTPN2	protein tyrosine phosphatase, non-receptor type 2			2,419	0,152		
8083594	PTX3	pentraxin 3, long	2,441	0,189	18,087	0,138	4,962	0,129
8050565	PUM2	pumilio homolog 2 (Drosophila)			2,249	0,848		
7984289	RAB11A	RAB11A, member RAS oncogene family			-2,414	0,316	2,108	0,542
7920422	RAB13	RAB13, member RAS oncogene family					2,618	0,109
8163882	RAB14	RAB14, member RAS oncogene family			-2,080	0,448		
8052680	RAB1A	RAB1A, member RAS oncogene family					2,367	0,546
7957177	RAB21	RAB21, member RAS oncogene family	2,045	0,193			2,156	0,449
8021301	RAB27B	RAB27B, member RAS oncogene family			-3,180	0,289		
8015545	RAB5C	RAB5C, member RAS oncogene family			-2,001	0,369		
8082431	RAB7A	RAB7A, member RAS oncogene family					2,224	0,734
8133176	RABGEF1	RAB guanine nucleotide exchange factor (GEF) 1					2,298	0,445

8083457	RAP2B	RAP2B, member of RAS oncogene family							-2,009	0,151
8098121	RAPGEF2	Rap guanine nucleotide exchange factor (GEF) 2				4,352	0,221		2,470	0,193
8106784	RASA1	RAS p21 protein activator (GTPase activating protein) 1			-2,003	0,331				
8083094	RASA2	RAS p21 protein activator 2						2,116	0,405	
8101304	RASGEF1B	RasGEF domain family, member 1B	2,280	0,257	2,289	0,228				
7927186	RASSF4	Ras association (RalGDS/AF-6) domain family member 4						2,115	0,053	
8020468	RBBP8	retinoblastoma binding protein 8						2,232	0,401	
8056201	RBMS1	RNA binding motif, single stranded interacting protein 1						3,639	0,008	
8042144	REL	v-rel reticuloendotheliosis viral oncogene homolog (avian)							2,137	0,233
8175933	RENBP	renin binding protein	2,076	0,016						
8173503	RGAG4	retrotransposon gag domain containing 4						-2,267	0,027	
7908125	RGL1	ral guanine nucleotide dissociation stimulator-like 1						2,006	0,188	
7908409	RGS2	regulator of G-protein signaling 2, 24kDa						2,527	0,530	
8133662	RHBDD2	rhomboid domain containing 2	-2,098	0,056				-2,202	0,034	
8143957	RHEB	Ras homolog enriched in brain			2,471	0,114				
8094743	RHOH	ras homolog family member H						2,396	0,123	
7910387	RHOU	ras homolog family member U						2,535	0,040	2,110 0,010
8111698	RICTOR	RPTOR independent companion of MTOR, complex 2			-2,126	0,438		2,763	0,619	
8045697	RIF1	RAP1 interacting factor homolog (yeast)						3,664	0,421	
8061247	RIN2	Ras and Rab interactor 2						8,994	0,079	3,324 0,121
8147206	RIPK2	receptor-interacting serine-threonine kinase 2						2,142	0,256	2,052 0,175
7920839	RIT1	Ras-like without CAAX 1	2,419	0,152	2,307	0,132				
8012000	RNASEK	ribonuclease, RNase K	-7,012	0,159	-3,451	0,159				
8083310	RNF13	ring finger protein 13	2,039	0,180				2,258	0,912	

8116372	RNF130	ring finger protein 130							-2,915	0,096
8117106	RNF144B	ring finger protein 144B					13,539	0,170	7,912	0,059
7914603	RNF19B	ring finger protein 19B					2,879	0,341		
8010426	RNF213	ring finger protein 213					2,980	0,594		
8161192	RNF38	ring finger protein 38								
7897801	RNU5E-1	RNA, U5E small nuclear 1	3,618	0,049	3,706	0,038	2,565	0,445	2,065	0,158
8167006	RP2	retinitis pigmentosa 2 (X-linked recessive)	2,774	0,071			2,742	0,198		
8170859	RPL10	ribosomal protein L10					2,273	0,898		
8078270	RPL15	ribosomal protein L15							-2,345	0,262
7946807	RPL36A/RPL36A-HNRNPH2	ribosomal protein L36a				-2,122	0,445			
7957530	RPL41	ribosomal protein L41	-2,529	0,229						
8112961	RPS23	ribosomal protein S23	2,065	0,253						
8007797	RPS26	ribosomal protein S26	-	0,289148629459487	-3,130	0,106				
8025395	RPS28	ribosomal protein S28			2,254	0,142				
7942586	RPS3	ribosomal protein S3					2,312	0,715		
8176375	RPS4Y1	ribosomal protein S4, Y-linked 1	-2,177	0,219			-2,366	0,106		
8171762	RPS6KA3	ribosomal protein S6 kinase, 90kDa, polypeptide 3					2,957	0,365		
8001918	RRAD	Ras-related associated with diabetes			2,325	0,190				
7915160	RRAGC	Ras-related GTP binding C	2,556	0,134			2,684	0,300		
8000192	RRN3P1	RNA polymerase I transcription factor homolog (S. cerevisiae) pseudogene 1	2,256	0,347						
8040080	RSAD2	radical S-adenosyl methionine domain containing 2	3,071	0,067	-2,284	0,305	10,234	0,308		
7913805	RUNX3	runt-related transcription factor 3	-2,938	0,103						
8159127	RXRA	retinoid X receptor, alpha					-2,932	0,000		
8088820	RYBP	RING1 and YY1 binding protein					2,493	0,345		
7920128	S100A11	S100 calcium binding protein A11	-3,237	0,124	-3,457	0,204				
7920244	S100A8	S100 calcium binding protein A8	2,102	0,093	2,677	0,217				
7905571	S100A9	S100 calcium binding protein A9					2,456	0,206		

8140967	SAMD9	sterile alpha motif domain containing 9			-2,818	0,384	3,916	0,414		
8140971	SAMD9L	sterile alpha motif domain containing 9-like			-2,377	0,336	4,629	0,530		
8066117	SAMHD1	SAM domain and HD domain 1					3,335	0,900		
8069541	SAMSN1	SAM domain, SH3 domain and nuclear localization signals 1					2,304	0,383		
8055104	SAP130	Sin3A-associated protein, 130kDa			-2,042	0,091				
8166469	SAT1	spermidine/spermine N1-acetyltransferase 1					2,304	0,936		
8085716	SATB1	SATB homeobox 1	-2,291	0,251	-3,511	0,357				
7979033	SAV1	salvador homolog 1 (Drosophila)					2,795	0,218	3,190	0,230
8032157	SBNO2	strawberry notch homolog 2 (Drosophila)					2,237	0,039		
8106479	SCAMP1	secretory carrier membrane protein 1			-2,200	0,400				
7981181	SCARNA13	small Cajal body-specific RNA 13			2,647	0,182				
8049299	SCARNA6	small Cajal body-specific RNA 6					2,502	0,831		
8027719	SCN1B	sodium channel, voltage-gated, type I, beta subunit			2,456	0,177			4,701	0,095
8146550	SDCBP	syndecan binding protein (syntenin)					2,644	0,547		
7940486	SDHAF2	succinate dehydrogenase complex assembly factor 2			-2,088	0,414				
8084904	SDHAP2	succinate dehydrogenase complex, subunit A, flavoprotein pseudogene 2					2,135	0,548		
7966621	SDS	serine dehydratase							-2,754	0,033
7904695	SEC22B	SEC22 vesicle trafficking protein homolog B (<i>S. cerevisiae</i>) (gene/pseudogene)					2,921	0,547		
7988581	SECISBP2L	SECIS binding protein 2-like			-2,347	0,309				
8140534	SEMA3C	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C					2,919	0,300	2,346	0,249
7917455	SEP15	15 kDa selenoprotein	2,363	0,194						
8112865	SERINC5	serine incorporator 5							-2,087	0,084
7981068	SERPINA1	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1					3,157	0,152	2,382	0,132

8021635	SERPINB2	serpin peptidase inhibitor, clade B (ovalbumin), member 2	4,083	0,166			16,021	0,083	5,241	0,050
8021653	SERPINB8	serpin peptidase inhibitor, clade B (ovalbumin), member 8					2,238	0,225		
8123609	SERPINB9	serpin peptidase inhibitor, clade B (ovalbumin), member 9					2,899	0,383	2,487	0,186
7951077	SESN3	sestrin 3	-4,743	0,174	-3,659	0,226				
8058024	SF3B1	splicing factor 3b, subunit 1, 155kDa					2,020	0,581		
7914791	SFPQ	splicing factor proline/glutamine-rich					2,533	0,999		
7930299	SFR1	SWI5-dependent recombination repair 1					2,298	0,207	2,886	0,125
7928171	SGPL1	sphingosine-1-phosphate lyase 1					2,337	0,574		
8048717	SGPP2	sphingosine-1-phosphate phosphatase 2					3,113	0,006	4,560	0,079
8141133	SHFM1	split hand/foot malformation (ectrodactyly) type 1					2,296	0,843		
8038885	SIGLEC14	sialic acid binding Ig-like lectin 14	-4,101	0,165	-3,153	0,056	2,608	0,814		
8094948	SLAIN2	SLAIN motif family, member 2			-2,099	0,474	2,132	0,614		
7921652	SLAMF1	signaling lymphocytic activation molecule family member 1			-8,382	0,273	11,181	0,258		
7906613	SLAMF7	SLAM family member 7	2,064	0,208	-2,000	0,429	15,296	0,164	5,654	0,088
7963212	SLC11A2	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2					3,025	0,195		
8110755	SLC12A7	solute carrier family 12 (potassium/chloride transporters), member 7	2,877	0,132	3,689	0,268				
8104930	SLC1A3	solute carrier family 1 (glial high affinity glutamate transporter), member 3					2,093	0,164		
8064808	SLC23A2	solute carrier family 23 (nucleobase transporters), member 2					-2,085	0,062	-2,689	0,132
8141107	SLC25A13	solute carrier family 25 (aspartate/glutamate carrier), member 13	2,583	0,052	2,533	0,087				
7906128	SLC25A44	solute carrier family 25, member 44					2,057	0,379		

8171111	SLC25A6	solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 6			2,241	0,107				
8087119	SLC26A6	solute carrier family 26, member 6					-2,097	0,048	-2,227	0,045
8039779	SLC27A5	solute carrier family 27 (fatty acid transporter), member 5					2,236	0,250		
7915472	SLC2A1	solute carrier family 2 (facilitated glucose transporter), member 1	-2,031	0,262						
7960865	SLC2A3	solute carrier family 2 (facilitated glucose transporter), member 3			-2,568	0,414				
8164918	SLC2A6	solute carrier family 2 (facilitated glucose transporter), member 6					2,171	0,004	3,361	0,109
7903369	SLC30A7	solute carrier family 30 (zinc transporter), member 7					2,372	0,435		
7950990	SLC36A4	solute carrier family 36 (proton/amino acid symporter), member 4					2,087	0,568		
7944931	SLC37A2	solute carrier family 37 (glycerol-3-phosphate transporter), member 2							-3,334	0,112
8101992	SLC39A8	solute carrier family 39 (zinc transporter), member 8					5,353	0,084	6,171	0,099
7965964	SLC41A2	solute carrier family 41, member 2			-2,204	0,489	3,534	0,367		
8157038	SLC44A1	solute carrier family 44, member 1			-2,618	0,300				
8068361	SLC5A3	solute carrier family 5 (sodium/myo-inositol cotransporter), member 3					3,451	0,430		
8102800	SLC7A11	solute carrier family 7 (anionic amino acid transporter light chain, xc- system), member 11	2,585	0,285			2,032	0,806		
8003298	SLC7A5	solute carrier family 7 (amino acid transporter light chain, L system), member 5					4,369	0,277	2,426	0,116
7977786	SLC7A7	solute carrier family 7 (amino acid transporter light chain, y+L system), member 7	2,343	0,188			3,051	0,019		
8063923	SLCO4A1	solute carrier organic anion transporter family, member 4A1					3,622	0,027		

8014257	SLFN12L	schlafen family member 12-like			-3,619	0,109	2,451	0,274
8006531	SLFN5	schlafen family member 5			-2,404	0,223		
8000156	SMG1P1	SMG1 pseudogene 1					2,366	0,586
7908097	SMG7	SMG7 nonsense mediated mRNA decay factor			-2,183	0,236	2,116	0,250
8121794	SMPDL3A	sphingomyelin phosphodiesterase, acid-like 3A			-2,597	0,220	2,830	0,282
8166402	SMS	spermine synthase					2,351	0,324
7914216	SNORA16A	small nucleolar RNA, H/ACA box 16A					2,662	0,590
7938329	SNORA23	small nucleolar RNA, H/ACA box 23			2,561	0,123		
8097056	SNORA24	small nucleolar RNA, H/ACA box 24	2,771	0,167	3,517	0,199		
7938291	SNORA3	small nucleolar RNA, H/ACA box 3			2,592	0,109		
8139482	SNORA5A	small nucleolar RNA, H/ACA box 5A	2,326	0,107				
8004508	SNORA67	small nucleolar RNA, H/ACA box 67			2,389	0,131		
8090565	SNORA7B	small nucleolar RNA, H/ACA box 7B					2,234	0,353
7981951	SNORD116-2	small nucleolar RNA, C/D box 116-2	-2,190	0,009				
7981960	SNORD116-6	small nucleolar RNA, C/D box 116-6	-7,138	0,342			8,117	0,587
8063345	SNORD12C	small nucleolar RNA, C/D box 12C			3,192	0,299		
8145793	SNORD13	small nucleolar RNA, C/D box 13			2,434	0,139		
7952339	SNORD14C	small nucleolar RNA, C/D box 14C	2,220	0,225	2,984	0,292		
7942594	SNORD15B	small nucleolar RNA, C/D box 15B	2,204	0,188	2,814	0,253		
7948908	SNORD26	small nucleolar RNA, C/D box 26					2,405	0,651
7948904	SNORD28	small nucleolar RNA, C/D box 28			3,383	0,160		
8030364	SNORD34	small nucleolar RNA, C/D box 34			2,633	0,253		
8127987	SNORD50A	small nucleolar RNA, C/D box 50A			2,448	0,311		
8060503	SNORD57	small nucleolar RNA, C/D box 57			2,370	0,217		
7922418	SNORD74	small nucleolar RNA, C/D box 74			2,401	0,341	2,229	0,808
7922414	SNORD76	small nucleolar RNA, C/D box 76					2,237	0,564
7922408	SNORD78	small nucleolar RNA, C/D box 78	2,346	0,403	4,012	0,282		
8043276	SNORD94	small nucleolar RNA, C/D box 94			2,346	0,042		
8042495	SNRNP27	small nuclear ribonucleoprotein 27kDa (U4/U6.U5)	-2,249	0,104				

8131957	SNX10	sorting nexin 10					2,149	0,409		
7993825	SNX29P1	sorting nexin 29 pseudogene 1	2,109	0,301						
8122986	SNX9	sorting nexin 9					4,648	0,273	3,370	0,187
7999423	SOCS1	suppressor of cytokine signaling 1					2,295	0,032	2,667	0,330
8018864	SOCS3	suppressor of cytokine signaling 3					4,057	0,003	4,971	0,064
8068168	SOD1	superoxide dismutase 1, soluble			-2,008	0,360				
8130556	SOD2	superoxide dismutase 2, mitochondrial					3,840	0,065	4,292	0,060
7944667	SORL1	sortilin-related receptor, L(DLR class) A repeats containing					-2,090	0,040		
7955787	SP1	Sp1 transcription factor							-2,027	0,149
8048940	SP100	SP100 nuclear antigen					2,121	0,973		
8059650	SP110	SP110 nuclear body protein			-2,198	0,245	2,976	0,502		
8013671	SPAG5	sperm associated antigen 5	2,686	0,151	2,475	0,159				
8016745	SPAG9	sperm associated antigen 9	2,033	0,352						
8047272	SPATS2L	spermatogenesis associated, serine-rich 2-like			-2,292	0,255				
8010061	SPHK1	sphingosine kinase 1					2,339	0,565		
8114964	SPINK1	serine peptidase inhibitor, Kazal type 1	3,488	0,148						
7934215	SPOCK2	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 2	-2,208	0,200						
8041995	SPTBN1	spectrin, beta, non-erythrocytic 1			-2,105	0,339				
7983512	SQRDL	sulfide quinone reductase-like (yeast)					2,933	0,339		
8114583	SRA1	steroid receptor RNA activator 1			2,038	0,191				
7956759	SRGAP1	SLIT-ROBO Rho GTPase activating protein 1					5,985	0,245	2,935	0,121
7927964	SRGN	serglycin					2,025	0,686		
8016898	SRSF1	serine/arginine-rich splicing factor 1					2,121	0,572		
8119080	SRSF3	serine/arginine-rich splicing factor 3					2,235	0,595		
7916403	SSBP3	single stranded DNA binding protein 3			-2,197	0,336	-2,161	0,137	-2,340	0,198
8113358	ST8SIA4	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4					2,155	0,657		

8057744	STAT1	signal transducer and activator of transcription 1, 91kDa			-2,109	0,373	2,292	0,730		
7964119	STAT2	signal transducer and activator of transcription 2, 113kDa					3,029	0,824		
8015607	STAT3	signal transducer and activator of transcription 3 (acute-phase response factor)			-2,146	0,409	2,325	0,437		
8057771	STAT4	signal transducer and activator of transcription 4			-3,042	0,362	7,378	0,257	3,031	0,083
8007212	STAT5A	signal transducer and activator of transcription 5A					2,818	0,079	3,280	0,100
7954511	STK38L	serine/threonine kinase 38 like							-2,056	0,226
8163896	STOM	stomatin			-2,197	0,405	2,328	0,403		
7944991	STT3A	STT3A, subunit of the oligosaccharyltransferase complex (catalytic)					2,381	0,371		
7922669	STX6	syntaxin 6					-2,174	0,027		
7974920	SYNE2	spectrin repeat containing, nuclear envelope 2			-2,075	0,167				
7918284	TAF13	TAF13 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 18kDa	2,040	0,052						
8125512	TAP1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)			-2,112	0,289	2,920	0,441		
8104760	TARS	threonyl-tRNA synthetase					2,003	0,440		
8123961	TBC1D7	TBC1 domain family, member 7	2,443	0,128	2,723	0,230				
8102912	TBC1D9	TBC1 domain family, member 9 (with GRAM domain)					3,025	0,208	2,288	0,092
7956795	TBK1	TANK-binding kinase 1					2,629	0,424		
8092201	TBL1XR1	transducin (beta)-like 1 X-linked receptor 1					2,225	0,590		
8123507	TBP	TATA box binding protein			-2,149	0,176				
7980891	TC2N	tandem C2 domains, nuclear	-2,067	0,271	-4,900	0,242	3,025	0,404		
8108050	TCF7	transcription factor 7 (T-cell specific,	-2,932	0,214						

		HMG-box)								
7958262	TCP11L2	t-complex 11, testis-specific-like 2			-2,375	0,338				
8124262	TDP2	tyrosyl-DNA phosphodiesterase 2	2,882	0,133			2,287	0,377		
8156688	TDRD7	tudor domain containing 7					3,137	0,335		
8093053	TFRC	transferrin receptor (p90, CD71)					3,216	0,268		
8037005	TGFB1	transforming growth factor, beta 1	-2,394	0,121			-3,354	0,002		
7917649	TGFBR3	transforming growth factor, beta receptor III			-2,065	0,289				
7982597	THBS1	thrombospondin 1					2,215	0,590		
8167185	TIMP1	TIMP metalloproteinase inhibitor 1	-2,200	0,113	-2,497	0,279				
8083569	TIPARP	TCDD-inducible poly(ADP-ribose) polymerase	2,322	0,268						
8155707	TJP2	tight junction protein 2					3,043	0,233	2,144	0,155
8088106	TKT	transketolase			2,192	0,152				
8157524	TLR4	toll-like receptor 4			-2,002	0,489	5,759	0,313		
8166065	TLR8	toll-like receptor 8			-3,851	0,351	4,882	0,330		
8093104	TM4SF19	transmembrane 4 L six family member 19	4,581	0,184	3,424	0,059				
7964745	TMBIM4	transmembrane BAX inhibitor motif containing 4			-2,403	0,305				
7955277	TMBIM6	transmembrane BAX inhibitor motif containing 6					2,051	0,727		
7959597	TMED2	transmembrane emp24 domain trafficking protein 2					2,450	0,645		
8019622	TMEM106A	transmembrane protein 106A					2,933	0,162	2,252	0,168
8064833	TMEM230	transmembrane protein 230			-2,744	0,406				
7899005	TMEM50A	transmembrane protein 50A					2,361	0,451		
7898115	TMEM51	transmembrane protein 51	-2,398							
8004691	TMEM88	transmembrane protein 88			2,623	0,127				
8118142	TNF	tumor necrosis factor					4,184	0,002	4,043	0,235
7977046	TNFAIP2	tumor necrosis factor, alpha-induced protein 2					3,416	0,029	2,442	0,175
8122265	TNFAIP3	tumor necrosis factor, alpha-induced protein 3					6,349	0,122	6,796	0,090

8045688	TNFAIP6	tumor necrosis factor, alpha-induced protein 6				15,325	0,015	8,761	0,073
8107520	TNFAIP8	tumor necrosis factor, alpha-induced protein 8				3,390	0,047	3,962	0,077
7911754	TNFRSF14	tumor necrosis factor receptor superfamily, member 14			2,586	0,173			
7897877	TNFRSF1B	tumor necrosis factor receptor superfamily, member 1B				2,745	0,449		
8126839	TNFRSF21	tumor necrosis factor receptor superfamily, member 21			-4,399	0,207	5,374	0,173	
7912145	TNFRSF9	tumor necrosis factor receptor superfamily, member 9				5,714	0,233	2,420	0,140
8092169	TNFSF10	tumor necrosis factor (ligand) superfamily, member 10				2,493	0,642		
8115210	TNIP1	TNFAIP3 interacting protein 1				3,863	0,042	3,186	0,103
8102594	TNIP3	TNFAIP3 interacting protein 3	2,777	0,405		68,154	0,088	57,838	0,158
8058869	TNS1	tensin 1	-2,238	0,126		-2,874	0,043		
8062603	TOP1	topoisomerase (DNA) I				2,004	0,570		
7924526	TP53BP2	tumor protein p53 binding protein, 2				3,923	0,288	2,274	0,215
8138581	TRA2A	transformer 2 alpha homolog (Drosophila)				2,027	0,722		
8163825	TRAF1	TNF receptor-associated factor 1			2,527	0,229	4,338	0,016	7,702
8128939	TRAF3IP2	TRAF3 interacting protein 2				3,342	0,188		
7947540	TRAF6	TNF receptor-associated factor 6, E3 ubiquitin protein ligase			-2,196	0,298			
8012304	TRAPPC1	trafficking protein particle complex 1	-2,488	0,091	-2,264	0,191			
7938035	TRIM22	tripartite motif containing 22				3,259	0,578		
7930139	TRIM8	tripartite motif containing 8				-2,917	0,013		
8025058	TRIP10	thyroid hormone receptor interactor 10				4,831	0,011	3,812	0,077
8059596	TRIP12	thyroid hormone receptor interactor 12				2,328	0,859		
8152453	TRPS1	trichorhinophalangeal syndrome I						-2,488	0,186
8041826	TTC7A	tetratricopeptide repeat domain 7A				-2,056	0,014		
8059177	TUBA4A	tubulin, alpha 4a	-2,167	0,125					

8117995	TUBB	tubulin, beta class I			-2,305	0,366			
8123644	TUBB2A	tubulin, beta 2A class IIa	-2,371	0,134					
8159642	TUBB4B	tubulin, beta 4B class IVb			2,584	0,232			
8159786	TUBBP5	tubulin, beta pseudogene 5					2,655	0,086	
8138454	TWISTNB	TWIST neighbor					2,424	0,233	
8163185	TXN	thioredoxin	3,237	0,117	2,743	0,171	4,655	0,080	3,268
7904726	TXNIP	thioredoxin interacting protein							-2,197
7958174	TXNRD1	thioredoxin reductase 1	2,919	0,150	2,376	0,125			
8005166	UBB	ubiquitin B					2,907	0,241	
7927658	UBE2D1	ubiquitin-conjugating enzyme E2D 1					2,133	0,290	
8154856	UBE2R2	ubiquitin-conjugating enzyme E2R 2							-2,584
8008139	UBE2Z	ubiquitin-conjugating enzyme E2Z					2,204	0,843	
8109597	UBLCP1	ubiquitin-like domain containing CTD phosphatase 1			-2,152	0,268			
7913001	UBR4	ubiquitin protein ligase E3 component n-recogin 4					2,008	0,820	
8074464	UFD1L	ubiquitin fusion degradation 1 like (yeast)					2,253	0,216	
8042270	UGP2	UDP-glucose pyrophosphorylase 2			-2,626	0,304	2,481	0,491	
8073192	UQCRFS1	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1			-2,216	0,325			
7936091	USMG5	up-regulated during skeletal muscle growth 5 homolog (mouse)					2,022	0,354	
7997633	USP10	ubiquitin specific peptidase 10			-2,420	0,390	2,714	0,477	
8071155	USP18	ubiquitin specific peptidase 18			-3,422	0,081	4,692	0,088	
8067903	USP25	ubiquitin specific peptidase 25					2,185	0,838	
8097098	USP53	ubiquitin specific peptidase 53			2,113	0,322			
8014081	UTP6	UTP6, small subunit (SSU) processome component, homolog (yeast)					2,056	0,607	
8054395	UXS1	UDP-glucuronate decarboxylase 1					2,258	0,309	
8025076	VAV1	vav 1 guanine nucleotide exchange factor					2,232	0,082	
8106743	VCAN	versican					-2,205	0,138	-2,629
8146216	VDAC3	voltage-dependent anion channel 3					2,691	0,954	
8129627	VNN3	vanin 3					2,262	0,232	

8042086	VRK2	vaccinia related kinase 2						-2,733	0,134
8122348	VTA1	Vps20-associated 1 homolog (S. cerevisiae)			-2,134	0,243			
8167334	WAS	Wiskott-Aldrich syndrome	-2,087	0,142			-2,129	0,081	
8099340	WDR1	WD repeat domain 1					2,021	0,442	
8150287	WHSC1L1	Wolf-Hirschhorn syndrome candidate 1-like 1						-2,133	0,105
8056860	WIPF1	WAS/WASL interacting protein family, member 1						-2,285	0,071
8123129	WTAP	Wilms tumor 1 associated protein					3,191	0,085	3,104
8004184	XAF1	XIAP associated factor 1			-2,456	0,217	7,392	0,344	
8048146	XRCC5	X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining)					2,568	0,668	
8091141	XRN1	5'-3' exoribonuclease 1			-2,602	0,333	3,622	0,531	
8000791	YPEL3	yippee-like 3 (Drosophila)	-2,383	0,058					
8046461	ZAK	sterile alpha motif and leucine zipper containing kinase AZK					2,962	0,347	
8147040	ZBTB10	zinc finger and BTB domain containing 10			2,222	0,195			
8083090	ZBTB38	zinc finger and BTB domain containing 38			-5,859	0,360	8,751	0,373	
8157933	ZBTB43	zinc finger and BTB domain containing 43					2,133	0,505	
7900146	ZC3H12A	zinc finger CCCH-type containing 12A					3,161	0,010	2,033
7943715	ZC3H12C	zinc finger CCCH-type containing 12C			2,417	0,217	2,855	0,124	2,992
8143279	ZC3HAV1	zinc finger CCCH-type, antiviral 1					3,710	0,301	
8137709	ZFAND2A	zinc finger, AN1-type domain 2A	2,425	0,069	3,272	0,158			
8028652	ZFP36	ZFP36 ring finger protein					2,105	0,905	
7979813	ZFP36L1	ZFP36 ring finger protein-like 1	-2,493	0,172			-2,451	0,132	
8051814	ZFP36L2	ZFP36 ring finger protein-like 2	-2,548	0,081					
7997767	ZFPM1	zinc finger protein, FOG family member 1	-2,079	0,045					
8166500	ZFX	zinc finger protein, X-linked	2,184	0,266			2,050	0,416	
7995258	ZNF267	zinc finger protein 267	2,235	0,317			5,339	0,363	
8120992	ZNF292	zinc finger protein 292			-4,163	0,348	2,736	0,450	

7963774	ZNF385A	zinc finger protein 385A	-2,287	0,173			-2,305	0,092
8031714	ZNF460	zinc finger protein 460					2,072	0,509
8081069	ZNF654	zinc finger protein 654					2,257	0,426
8066905	ZNFX1	zinc finger, NFX1-type containing 1					3,255	0,339
8173201	ZXDA	zinc finger, X-linked, duplicated A	-4,174	0,088	-3,294	0,133		

¹Genes upregulated or downregulated more than 2-fold in TRAPS vs CTR cells and in LPS-treated (LPS) vs untreated

²Affymetrix ID number

"include others" refers to different probes for the same gene