

**Table 4. Probe sets whose expression is increased in T cell- and monocyte-enriched populations versus total leukocytes**

100 probe sets whose apparent expression most increased in T cells relative to Buffy coat

Fold change in T cells	Probe set	Gene description	Defined gene lists
6.81	209795_at	CD69 antigen (p60, early T cell activation antigen)	cell_cycle, cell_signaling, immunology
5.59	206363_at	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)	tsonc
4.80	212538_at	dedicator of cytokinesis 9	
4.72	210948_s_at	lymphoid enhancer-binding factor 1	development
4.71	220418_at	ubiquitin associated and SH3 domain containing, A	
4.58	218911_at	glioma-amplified sequence-41	
4.56	206545_at	CD28 antigen (Tp44)	
4.43	204777_s_at	mal, T cell differentiation protein	immunology, misc
4.25	219528_s_at	B-cell CLL/lymphoma 11B (zinc finger protein)	
4.22	221974_at	mRNA; cDNA DKFZp686M12165 (from clone DKFZp686M12165)	
4.21	211005_at	linker for activation of T cells	
4.20	206150_at	tumor necrosis factor receptor superfamily, member 7	immunology
4.19	205006_s_at	N-myristoyltransferase 2	
4.18	209602_s_at	GATA binding protein 3	gene_regulation, immunology, misc, transcription
4.11	204019_s_at	SH3 domain containing, Ysc84-like 1 (S. cerevisiae)	
4.07	204890_s_at	lymphocyte-specific protein tyrosine kinase	immunology, signal_transduction, tsonc
4.07	205005_s_at	N-myristoyltransferase 2	
4.05	202431_s_at	v-myc myelocytomatosis viral oncogene homolog (avian)	gene_regulation, immunology, transcription, tsonc
4.03	203413_at	NEL-like 2 (chicken)	
3.97	210607_at	fms-related tyrosine kinase 3 ligand	cell_cycle, cell_signaling, immunology, signal_transduction
3.91	204773_at	interleukin 11 receptor, alpha	immunology
3.87	213460_x_at	Williams Beuren syndrome chromosome region 20C	
3.83	219346_at	leucine rich repeat and fibronectin type III domain containing 3	
3.81	206804_at	CD3G antigen, gamma polypeptide (TiT3 complex)	immunology
3.81	203717_at	dipeptidylpeptidase 4 (CD26, adenosine deaminase complexing protein 2)	angiogenesis, immunology, metastasis
3.81	216945_x_at	PAS domain containing serine/threonine kinase	
3.80	39248_at	aquaporin 3	
3.80	203386_at	TBC1 domain family, member 4	
3.77	210425_x_at	golgin-67	
3.74	211596_s_at	leucine-rich repeats and immunoglobulin-like domains 1	
3.73	64432_at	apoptosis-related protein PNAS-1	
3.70	213539_at	CD3D antigen, delta polypeptide (TiT3 complex)	
3.70	213670_x_at	Williams Beuren syndrome chromosome region 20C	

Fold change in T cells	Probe set	Gene description	Defined gene lists
3.70	217147_s_at	T cell receptor interacting molecule	
3.68	210972_x_at	cDNA clone MGC:71411 IMAGE:4853814, complete cds	
3.67	211727_s_at	COX11 homolog, cytochrome c oxidase assembly protein (yeast)	misc
3.64	221648_s_at	CGI-146 protein	
3.62	219029_at	Hypothetical protein FLJ21657	
3.61	201848_s_at	BCL2/adenovirus E1B 19kDa interacting protein 3	apoptosis
3.60	39729_at	peroxiredoxin 2	
3.60	222266_at	Chromosome 19 open reading frame 2	
3.59	201656_at	integrin, alpha 6	cell_signaling, immunology, metastasis
3.59	206492_at	fragile histidine triad gene	tsonc
3.58	209671_x_at	T cell receptor alpha locus	
3.57	208798_x_at	golgin-67	
3.56	206666_at	granzyme K (serine protease, granzyme 3; tryptase II)	misc
3.55	214093_s_at	nexilin (F actin binding protein)	
3.52	214723_x_at	KIAA1641 protein	
3.52	202969_at	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2	signal_transduction
3.50	220132_s_at	lectin-like NK cell receptor	
3.50	209267_s_at	solute carrier family 39 (zinc transporter), member 8	
3.49	207651_at	platelet activating receptor homolog	
3.47	206761_at	CD96 antigen	
3.42	209348_s_at	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)	tsonc
3.41	218532_s_at	hypothetical protein FLJ20152	
3.40	219315_s_at	hypothetical protein FLJ20898	
3.39	200965_s_at	actin binding LIM protein 1	
3.37	205407_at	reversion-inducing-cysteine-rich protein with kazal motifs	
3.37	217340_at	ribosomal protein L21	
3.36	213457_at	malignant fibrous histiocytoma amplified sequence 1	
3.36	217838_s_at	Enah/Vasp-like	
3.34	205831_at	CD2 antigen (p50), sheep red blood cell receptor	angiogenesis, immunology, metastasis
3.32	203608_at	aldehyde dehydrogenase 5 family, member A1 (succinate-semialdehyde dehydrogenase)	
3.31	213093_at	protein kinase C, alpha	angiogenesis, cell_cycle, cell_signaling, signal_transduction
3.30	213958_at	CD6 antigen	immunology
3.28	211902_x_at		
3.28	219109_at	PF20	
3.28	213166_x_at	hypothetical protein FLJ14346	
3.27	203685_at	B-cell CLL/lymphoma 2	apoptosis, immunology, tsonc
3.25	205047_s_at	asparagine synthetase	immunology
3.24	214130_s_at	phosphodiesterase 4D interacting protein (myomegalin)	
3.24	218723_s_at	response gene to complement 32	
3.22	212846_at	KIAA0179	
3.22	204142_at	rTS beta protein	

Fold change in T cells	Probe set	Gene description	Defined gene lists
3.21	211796_s_at	T cell receptor beta chain BV20S1 BJ1-5 BC1 mRNA, complete cds	
3.21	205510_s_at	hypothetical protein FLJ10038	
3.20	212400_at	hypothetical protein MGC50853	
3.20	202971_s_at	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2	signal_transduction
3.20	217394_at	Human TCRAV8.1a mRNA for T cell receptor alpha-chain V region, partial cds.	
3.17	213598_at	putative dimethyladenosine transferase	
3.17	212614_at	AT rich interactive domain 5B (MRF1-like)	
3.16	203828_s_at	natural killer cell transcript 4	
3.16	202165_at	protein phosphatase 1, regulatory (inhibitor) subunit 2	
3.16	219864_s_at	Down syndrome critical region gene 1-like 2 /// Down syndrome critical region gene 1-like 2	
3.15	209657_s_at	heat shock transcription factor 2	
3.15	214705_at	InaD-like protein	
3.15	217950_at	nitric oxide synthase interacting protein	
3.14	204891_s_at	lymphocyte-specific protein tyrosine kinase /// lymphocyte-specific protein tyrosine kinase	immunology, signal_transduction, tsonc
3.14	205087_at	RWD domain containing 3	
3.14	211675_s_at	I-mfa domain-containing protein	
3.12	202073_at	Optineurin	
3.12	219117_s_at	FK506 binding protein 11, 19 kDa	
3.12	205288_at	CDC14 cell division cycle 14 homolog A (S. cerevisiae)	
3.12	202746_at	integral membrane protein 2A	
3.11	205254_x_at	transcription factor 7 (T cell specific, HMG-box)	gene_regulation, immunology, transcription
3.10	201853_s_at	cell division cycle 25B	
3.08	209604_s_at	GATA binding protein 3	gene_regulation, immunology, misc, transcription
3.07	217326_x_at		
3.07	202478_at	tribbles homolog 2 (Drosophila)	
3.06	211478_s_at	dipeptidylpeptidase 4 (CD26, adenosine deaminase complexing protein 2)	angiogenesis, immunology, metastasis

### 100 Probe Sets Whose Apparent Expression Most Increased in Monocytes Relative to Buffy Coat

Fold change in monocytes	Probe set	Gene description	Defined gene lists
8.31	203821_at	diphtheria toxin receptor (heparin-binding epidermal growth factor-like growth factor)	immunology
5.86	210895_s_at	CD86 antigen (CD28 antigen ligand 2, B7-2 antigen)	immunology
5.85	202393_s_at	TGFB inducible early growth response	angiogenesis, cell_cycle, cell_signaling,

Fold change in monocytes	Probe set	Gene description	Defined gene lists
			immunology, misc
5.83	201110_s_at	thrombospondin 1	angiogenesis, cell_signaling, immunology, metastasis
5.83	221841_s_at	Kruppel-like factor 4 (gut)	
5.57	202284_s_at	cyclin-dependent kinase inhibitor 1A (p21, Cip1)	immunology, tsonc
5.47	203645_s_at	CD163 antigen	
5.40	208450_at	lectin, galactoside-binding, soluble, 2 (galectin 2)	
5.23	217388_s_at	kynureninase (L-kynurenine hydrolase)	
5.20	212681_at	erythrocyte membrane protein band 4.1-like 3	
5.16	212224_at	aldehyde dehydrogenase 1 family, member A1	
5.16	219093_at	hypothetical protein FLJ20701	
5.06	215646_s_at	chondroitin sulfate proteoglycan 2 (versican)	immunology
5.03	215049_x_at	CD163 antigen	
4.89	208923_at	cytoplasmic FMR1 interacting protein 1	
4.73	213397_x_at	ribonuclease, RNase A family, 4	
4.68	220146_at	toll-like receptor 7	
4.67	217897_at	FXYD domain containing ion transport regulator 6	
4.50	211571_s_at	chondroitin sulfate proteoglycan 2 (versican)	immunology
4.49	206743_s_at	asialoglycoprotein receptor 1	
4.48	204112_s_at	histamine N-methyltransferase	
4.48	211776_s_at	erythrocyte membrane protein band 4.1-like 3	
4.39	202436_s_at	cytochrome P450, family 1, subfamily B, polypeptide 1	immunology, pharmacology
4.39	220162_s_at	caspase recruitment domain family, member 9	
4.38	201506_at	transforming growth factor, beta-induced, 68kDa	cell_cycle, cell_signaling, immunology
4.38	212956_at	KIAA0882 protein	
4.38	206710_s_at	erythrocyte membrane protein band 4.1-like 3	
4.34	49306_at	Ras association (RalGDS/AF-6) domain family 4	
4.28	206157_at	pentaxin-related gene, rapidly induced by IL-1 beta	cell_cycle, cell_signaling, immunology
4.28	202435_s_at	cytochrome P450, family 1, subfamily B, polypeptide 1	immunology, pharmacology
4.20	217513_at	hypothetical protein LOC284021	
4.19	218559_s_at	v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian)	
4.18	209684_at	Ras and Rab interactor 2	
4.16	208146_s_at	carboxypeptidase, vitellogenic-like	
4.15	203485_at	reticulon 1	angiogenesis, metastasis
4.14	203922_s_at	cytochrome b-245, beta polypeptide (chronic granulomatous disease)	immunology
4.14	201105_at	lectin, galactoside-binding, soluble, 1 (galectin 1)	immunology, misc
4.13	202437_s_at	cytochrome P450, family 1, subfamily B, polypeptide 1	immunology, pharmacology
4.10	208890_s_at	plexin B2	
4.09	205859_at	lymphocyte antigen 86	
4.04	200602_at	amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease)	immunology
4.01	203932_at	major histocompatibility complex, class II, DM beta	immunology
4.00	202007_at	nidogen (enactin)	
3.99	212460_at	chromosome 14 open reading frame 147	

<b>Fold change in monocytes</b>	<b>Probe set</b>	<b>Gene description</b>	<b>Defined gene lists</b>
3.99	201417_at	SRY (sex determining region Y)-box 4	gene_regulation, immunology, transcription
3.99	205076_s_at	cisplatin resistance associated	
3.99	219666_at	membrane-spanning 4-domains, subfamily A, member 6A	
3.98	221802_s_at	KIAA1598	
3.96	213537_at	major histocompatibility complex, class II, DP alpha 1	immunology
3.94	200736_s_at	glutathione peroxidase 1	immunology, pharmacology
3.92	205789_at	CD1D antigen, d polypeptide	angiogenesis, metastasis
3.85	206488_s_at	CD36 antigen (collagen type I receptor, thrombospondin receptor)	immunology
3.84	204466_s_at	synuclein, alpha (non A4 component of amyloid precursor)	
3.82	204115_at	guanine nucleotide binding protein (G protein), gamma 11	
3.78	208949_s_at	lectin, galactoside-binding, soluble, 3 (galectin 3)	immunology
3.75	201560_at	chloride intracellular channel 4	
3.73	205992_s_at	interleukin 15	immunology
3.69	203305_at	coagulation factor XIII, A1 polypeptide	immunology
3.68	203923_s_at	cytochrome b-245, beta polypeptide (chronic granulomatous disease)	immunology
3.66	217853_at	tensin-like SH2 domain containing 1	
3.66	208894_at	major histocompatibility complex, class II, DR alpha	immunology
3.64	214953_s_at	amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease)	immunology
3.63	211732_x_at	histamine N-methyltransferase	
3.63	209499_x_at	tumor necrosis factor (ligand) superfamily, member 13	
3.63	203300_x_at	adaptor-related protein complex 1, sigma 2 subunit	
3.62	202295_s_at	cathepsin H	
3.61	204081_at	neurogranin (protein kinase C substrate, RC3)	
3.61	220091_at	solute carrier family 2 (facilitated glucose transporter), member 6	
3.60	210220_at	frizzled homolog 2 (Drosophila)	development
3.59	213624_at	Sphingomyelin phosphodiesterase, acid-like 3A	
3.58	210222_s_at	reticulon 1	angiogenesis, metastasis
3.56	201743_at	CD14 antigen	angiogenesis, immunology, metastasis, misc
3.54	201847_at	lipase A, lysosomal acid, cholesterol esterase (Wolman disease)	
3.54	201416_at	SRY (sex determining region Y)-box 4	gene_regulation, immunology, transcription
3.53	202944_at	N-acetylgalactosaminidase, alpha-	immunology
3.53	202381_at	a disintegrin and metalloproteinase domain 9 (meltrin gamma)	
3.51	206978_at	chemokine (C-C motif) receptor 2	immunology
3.51	219806_s_at	FN5 protein	
3.49	210314_x_at	tumor necrosis factor (ligand) superfamily, member 13	
3.48	201425_at	aldehyde dehydrogenase 2 family (mitochondrial)	immunology, pharmacology
3.47	201590_x_at	annexin A2	
3.46	200762_at	dihydropyrimidinase-like 2	
3.46	200838_at	cathepsin B	immunology, misc
3.44	208818_s_at	catechol-O-methyltransferase	behavior, immunology

<b>Fold change in monocytes</b>	<b>Probe set</b>	<b>Gene description</b>	<b>Defined gene lists</b>
3.40	205730_s_at	actin binding LIM protein family, member 3	
3.39	221042_s_at	calmin (calponin-like, transmembrane)	
3.38	212235_at	plexin D1	
3.37	205686_s_at	CD86 antigen (CD28 antigen ligand 2, B7-2 antigen)	immunology
3.36	213379_at	hypothetical protein CL640	
3.35	210982_s_at	major histocompatibility complex, class II, DR alpha	immunology
3.35	202201_at	biliverdin reductase B (flavin reductase (NADPH))	
3.33	200839_s_at	cathepsin B	immunology, misc
3.32	205685_at	CD86 antigen (CD28 antigen ligand 2, B7-2 antigen)	immunology
3.31	208816_x_at	annexin A2 pseudogene 1	
3.30	214146_s_at	pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)	immunology
3.30	211369_at	calcium binding protein P22	
3.30	209696_at	fructose-1,6-bisphosphatase 1	immunology
3.30	206120_at	CD33 antigen (gp67)	angiogenesis, metastasis
3.29	204526_s_at	TBC1 domain family, member 8 (with GRAM domain)	
3.27	220016_at	hypothetical protein MGC5395	