

**Table 6. Probe sets whose apparent expression is most increased and decreased in trauma subjects**

100 probe sets whose apparent expression most increased in trauma subjects

Fold change in trauma	Probe set	Gene Description	Defined gene lists
28.44	206697_s_at	haptoglobin	immunology, misc
25.18	202018_s_at	Lactotransferrin	immunology
21.31	219669_at	polycythemia rubra vera 1	
17.81	212531_at	lipocalin 2 (oncogene 24p3)	immunology, tsonc
14.03	208470_s_at	Haptoglobin	immunology, misc
13.20	206177_s_at	Arginase	
13.12	207269_at	defensin, alpha 4, corticostatin	immunology
11.35	206676_at	carcinoembryonic antigen-related cell adhesion molecule 8	
11.22	207329_at	matrix metalloproteinase 8 (neutrophil collagenase)	immunology, misc
10.17	205844_at	vanin 1	
9.46	203948_s_at	Myeloperoxidase	immunology, misc
9.39	205557_at	bactericidal/permeability-increasing protein	immunology, misc
8.91	209369_at	annexin A3	
8.12	219975_x_at	thioesterase domain containing 1	
8.01	205033_s_at	defensin, alpha 1, myeloid-related sequence	immunology, misc
7.28	206871_at	elastase 2, neutrophil	immunology
6.79	214575_s_at	azurocidin 1 (cationic antimicrobial protein 37)	immunology
6.64	219607_s_at	membrane-spanning 4-domains, subfamily A, member 4	
6.62	207384_at	peptidoglycan recognition protein 1	
6.62	203936_s_at	matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)	angiogenesis, immunology
6.55	201554_x_at	Glycogenin	
6.12	210244_at	cathelicidin antimicrobial peptide	immunology
5.79	206494_s_at	integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41B)	immunology
5.73	205936_s_at	hexokinase 3 (white cell)	immunology, metabolism
5.66	207529_at	defensin, alpha 5, Paneth cell-specific	immunology
5.54	211275_s_at	glycogenin	
5.07	208650_s_at	CD24 antigen	
5.01	203234_at	uridine phosphorylase 1	
4.89	212062_at	ATPase, Class II, type 9A	
4.81	216950_s_at	Fc fragment of IgG, high affinity Ia, receptor for (CD64)	immunology
4.69	266_s_at	CD24 antigen	
4.62	205471_s_at	dachshund homolog 1 (Drosophila)	
4.60	203725_at	growth arrest and DNA-damage-inducible, alpha	

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4.54	208651_x_at	CD24 antigen	
4.50	205513_at	transcobalamin I (vitamin B12 binding protein, R binder family)	immunology
4.42	206244_at	complement component (3b/4b) receptor 1	immunology
4.33	211548_s_at	hydroxyprostaglandin dehydrogenase 15-(NAD)	
4.33	201060_x_at	Stomatin	
4.32	216379_x_at		
4.23	212090_at	glutamate receptor, ionotropic, N-methyl D-aspartate-associated protein 1 (glutamate binding)	
4.21	209906_at	complement component 3a receptor 1	immunology
4.20	221765_at	UDP-glucose ceramide glucosyltransferase	
4.20	206618_at	interleukin 18 receptor 1	immunology
4.17	202446_s_at	phospholipid scramblase 1	
4.07	206209_s_at	carbonic anhydrase IV	
4.04	210449_x_at	mitogen-activated protein kinase 14	
4.03	213926_s_at	HIV-1 Rev binding protein	
4.02	209771_x_at	CD24 antigen	
4.02	206493_at	integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41B)	immunology
4.01	211087_x_at	mitogen-activated protein kinase 14	
4.00	207674_at	Fc fragment of IgA, receptor for	immunology
3.96	215783_s_at	alkaline phosphatase	cell_cycle, cell_signaling, immunology
3.86	201061_s_at	stomatin	
3.85	211561_x_at	mitogen-activated protein kinase 14	
3.85	204860_s_at	baculoviral IAP repeat-containing 1	
3.84	209409_at	growth factor receptor-bound protein 10	immunology
3.84	206157_at	pentaxin-related gene, rapidly induced by IL-1 beta	cell_cycle, cell_signaling, immunology
3.83	208791_at	clusterin	immunology
3.82	202464_s_at	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	
3.81	206208_at	carbonic anhydrase IV	
3.78	204881_s_at	UDP-glucose ceramide glucosyltransferase	
3.74	210166_at	toll-like receptor 5	immunology
3.68	205863_at	S100 calcium binding protein A12 (calgranulin C)	
3.67	217826_s_at	ubiquitin-conjugating enzyme E2, J1 (UBC6 homolog, yeast)	
3.66	214909_s_at	dimethylarginine dimethylaminohydrolase 2	
3.62	206111_at	ribonuclease, RNase A family, 2 (liver, eosinophil-derived neurotoxin)	
3.62	204714_s_at	coagulation factor V (proaccelerin, labile factor)	immunology, misc
3.62	213817_at	MRNA; cDNA DKFZp586B0220 (from clone	

Fold change in trauma	Probe set	Gene Description	Defined gene lists
		DKFZp586B0220)	
3.61	202435_s_at	cytochrome P450, family 1, subfamily B, polypeptide 1	immunology, pharmacology
3.58	217552_x_at	complement component (3b/4b) receptor 1	immunology
3.53	211372_s_at	interleukin 1 receptor, type II	immunology
3.52	202436_s_at	cytochrome P450, family 1, subfamily B, polypeptide 1	immunology, pharmacology
3.51	214511_x_at	Fc fragment of IgG, high affinity Ia, receptor for (CD64)	immunology
3.51	210583_at	polymerase (DNA-directed), delta interacting protein 3	
3.51	204713_s_at	coagulation factor V (proaccelerin, labile factor)	immunology, misc
3.51	209930_s_at	nuclear factor (erythroid-derived 2), 45kDa ///	gene_regulation, immunology, transcription
3.48	203276_at	lamin B1	
3.43	204861_s_at	baculoviral IAP repeat-containing 1	
3.42	212443_at	KIAA0540 protein	
3.41	202381_at	A disintegrin and metalloproteinase domain 9 (meltrin gamma)	
3.39	200983_x_at	CD59 antigen p18-20	angiogenesis, immunology, metastasis
3.38	202430_s_at	phospholipid scramblase 1	
3.33	202437_s_at	cytochrome P450, family 1, subfamily B, polypeptide 1	immunology, pharmacology
3.28	206359_at	suppressor of cytokine signaling 3	
3.26	200998_s_at	cytoskeleton-associated protein 4	
3.24	201058_s_at	myosin, light polypeptide 9, regulatory	
3.20	202990_at	phosphorylase, glycogen; liver (Hers disease, glycogen storage disease type VI)	
3.19	202096_s_at	benzodiazapine receptor (peripheral)	
3.17	217763_s_at	RAB31, member RAS oncogene family	
3.13	202874_s_at	ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C, isoform 1	
3.11	220034_at	interleukin-1 receptor-associated kinase 3	
3.10	218092_s_at	HIV-1 Rev binding protein /// HIV-1 Rev binding protein	
3.09	215646_s_at	chondroitin sulfate proteoglycan 2 (versican)	immunology
3.07	211413_s_at	peptidyl arginine deiminase, type IV	
3.04	210254_at	membrane-spanning 4-domains, subfamily A, member 3	
3.03	222025_s_at	5-oxoprolinase (ATP-hydrolysing)	
3.02	202530_at	mitogen-activated protein kinase 14	
3.01	205896_at	solute carrier family 22 (organic cation transporter), member 4	
3.01	205403_at	interleukin 1 receptor, type II	immunology

100 probe sets whose expression most reduced in trauma subjects

<b>Fold change in trauma</b>	<b>Probe set</b>	<b>Gene description</b>	<b>Defined gene lists</b>
0.32	221756_at	LIM domain kinase 2	cell_cycle, cell_signaling, signal_transduction
0.32	205006_s_at	N-myristoyltransferase 2	
0.32	204070_at	retinoic acid receptor responder (tazarotene induced) 3	
0.32	37145_at	Granulysin	
0.32	202742_s_at	protein kinase, cAMP-dependent, catalytic, beta	cell_cycle, cell_signaling, signal_transduction
0.32	201665_x_at	ribosomal protein S17	
0.32	201746_at	tumor protein p53 (Li-Fraumeni syndrome)	DNA_damage, gene_regulation, immunology, transcription, tsonc
0.32	212414_s_at	septin 6	
0.31	203485_at	reticulon 1	angiogenesis, metastasis
0.31	209723_at	serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 9	
0.31	205419_at	Epstein-Barr virus induced gene 2 (lymphocyte-specific G protein-coupled receptor)	
0.31	200063_s_at	nucleophosmin (nucleolar phosphoprotein B23, numatrin)	HG-Focus_HouseKeeping, HG-U133_Housekeeping, cell_cycle, cell_signaling, signal_transduction
0.31	216050_at	CDNA: FLJ20931 fis, clone ADSE01282	
0.31	203413_at	NEL-like 2 (chicken)	
0.31	214705_at	InaD-like protein	
0.31	214042_s_at	Similar to ribosomal protein L22 (LOC389175), mRNA	
0.30	219423_x_at	tumor necrosis factor receptor superfamily, member 25	
0.30	212070_at	G protein-coupled receptor 56	
0.30	218638_s_at	spondin 2, extracellular matrix protein	
0.30	211623_s_at	fibrillarin	cell_cycle, cell_signaling, signal_transduction
0.29	210538_s_at	baculoviral IAP repeat-containing 3	
0.29	213564_x_at	lactate dehydrogenase B	misc
0.29	214280_x_at	heterogeneous nuclear ribonucleoprotein A1	
0.29	201030_x_at	lactate dehydrogenase B	misc
0.29	213906_at	v-myb myeloblastosis viral oncogene homolog (avian)-like 1	tsonc
0.29	214615_at	purinergic receptor P2Y, G-protein coupled, 10	
0.29	202741_at	protein kinase, cAMP-dependent, catalytic, beta	cell_cycle, cell_signaling, signal_transduction
0.29	221726_at	ribosomal protein L22	
0.29	217019_at	ribosomal protein S4, X-linked	immunology
0.29	213687_s_at	ribosomal protein L35a	

<b>Fold change in trauma</b>	<b>Probe set</b>	<b>Gene description</b>	<b>Defined gene lists</b>
0.28	220940_at	KIAA1641 protein	
0.28	204198_s_at	runt-related transcription factor 3	
0.28	205758_at	CD8 antigen, alpha polypeptide (p32)	angiogenesis, immunology, metastasis
0.28	217807_s_at	glioma tumor suppressor candidate region gene 2	
0.28	205456_at	CD3E antigen, epsilon polypeptide (TiT3 complex)	immunology
0.28	212400_at	hypothetical protein MGC50853	
0.27	210948_s_at	lymphoid enhancer-binding factor 1	development
0.27	210606_x_at	killer cell lectin-like receptor subfamily D, member 1	immunology
0.27	209396_s_at	chitinase 3-like 1 (cartilage glycoprotein-39)	
0.27	219812_at	stromal antigen 3	
0.27	214321_at	nephroblastoma overexpressed gene	tsonc
0.26	212827_at	immunoglobulin heavy constant mu	
0.26	219777_at	human immune associated nucleotide 2	
0.26	211991_s_at	major histocompatibility complex, class II, DP alpha 1	immunology
0.26	1405_i_at	chemokine (C-C motif) ligand 5	
0.26	204891_s_at	lymphocyte-specific protein tyrosine kinase	immunology, signal_transduction, tsonc
0.26	208894_at	major histocompatibility complex, class II, DR alpha	immunology
0.26	204197_s_at	runt-related transcription factor 3	
0.26	212706_at	RAS p21 protein activator 4	
0.25	215342_s_at	expressed in hematopoietic cells, heart, liver	
0.25	204019_s_at	SH3 domain containing, Ysc84-like 1 (S. cerevisiae)	
0.25	208798_x_at	golgin-67	
0.25	217147_s_at	T-cell receptor interacting molecule	
0.25	200061_s_at	ribosomal protein S24	HG-Focus_HouseKeeping, HG-U133_Housekeeping
0.25	203828_s_at	natural killer cell transcript 4	
0.25	211144_x_at	T cell receptor gamma variable 9	
0.25	221234_s_at	BTB and CNC homology 1, basic leucine zipper transcription factor 2	
0.24	210116_at	SH2 domain protein 1A, Duncan's disease (lymphoproliferative syndrome)	immunology, signal_transduction
0.24	200888_s_at	ribosomal protein L23	
0.24	210279_at	G protein-coupled receptor 18	
0.24	209671_x_at	T cell receptor alpha locus	
0.24	210972_x_at	CDNA clone MGC:71411 IMAGE:4853814, complete cds	
0.23	211990_at	major histocompatibility complex, class II, DP alpha 1	immunology
0.23	216191_s_at	T cell receptor delta locus	
0.23	209670_at	CDNA clone MGC:71411 IMAGE:4853814, complete cds	
0.23	214617_at	perforin 1 (pore forming protein)	immunology
0.23	204655_at	chemokine (C-C motif) ligand 5	

<b>Fold change in trauma</b>	<b>Probe set</b>	<b>Gene description</b>	<b>Defined gene lists</b>
0.23	205831_at	CD2 antigen (p50), sheep red blood cell receptor	angiogenesis, immunology, metastasis
0.23	221601_s_at	regulator of Fas-induced apoptosis	
0.22	219093_at	hypothetical protein FLJ20701	
0.22	202207_at	ADP-ribosylation factor-like 7	
0.22	206785_s_at	killer cell lectin-like receptor subfamily C, member 1	
0.22	213539_at	CD3D antigen, delta polypeptide (TiT3 complex)	
0.21	221558_s_at	lymphoid enhancer-binding factor 1	development
0.21	213193_x_at	T cell receptor beta chain BV20S1 BJ1-5 BC1 mRNA, complete cds	
0.21	211902_x_at		
0.21	219528_s_at	B-cell CLL/lymphoma 11B (zinc finger protein)	
0.20	215806_x_at	T cell receptor gamma variable 9	
0.20	209813_x_at	T cell receptor gamma variable 9	
0.20	206337_at	chemokine (C-C motif) receptor 7	immunology
0.20	201406_at	ribosomal protein L36a-like	
0.20	203386_at	TBC1 domain family, member 4	
0.19	215524_x_at	Human TCRAV14.1a mRNA for T-cell receptor alpha-chain V region, partial cds.	
0.19	210915_x_at	T cell receptor beta chain BV20S1 BJ1-5 BC1 mRNA, complete cds	
0.19	205291_at	interleukin 2 receptor, beta	immunology
0.19	216920_s_at	T cell receptor gamma variable 9	
0.19	221011_s_at	likely ortholog of mouse limb-bud and heart gene	
0.19	202746_at	integral membrane protein 2A	
0.19	205495_s_at	Granulysin	
0.19	205821_at	killer cell lectin-like receptor subfamily K, member 1	
0.18	217143_s_at	T cell receptor delta locus	
0.18	201137_s_at	major histocompatibility complex, class II, DP beta 1	immunology
0.17	211796_s_at	T cell receptor beta chain BV20S1 BJ1-5 BC1 mRNA, complete cds	
0.17	202524_s_at	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 2	
0.17	205798_at	interleukin 7 receptor	immunology
0.16	205590_at	RAS guanyl releasing protein 1 (calcium and DAG-regulated)	
0.16	220646_s_at	killer cell lectin-like receptor subfamily F, member 1	
0.16	209602_s_at	GATA binding protein 3	gene_regulation, immunology, misc, transcription
0.14	212671_s_at	major histocompatibility complex, class II, DQ alpha 1	immunology
0.14	214470_at	killer cell lectin-like receptor subfamily B, member 1	

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0.14	205488_at	granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3)	immunology, misc