

Table 1. Functional classification of genes in which expressions are altered following LFPI

GenBank	Cell cycle and DNA synthesis	Fold changes					
		Moderate injury			Severe injury		
		30min	4hrs	24hrs	30min	4hrs	24hrs
AF020618	progression elevated gene 3 protein				2.2±0.4	2.8±0.8	
AF062594	nucleosome assembly protein						2.5±0.2
AF099093	ubiquitin-conjugating enzyme UBC7				2.1±0.3	2.1±0.3	
AJ006971	DAP-like kinase			-2.6±0.5			
AJ011608	DNA polymerase alpha subunit IV (primase), partial				2.3± 0.3		2.5±0.3
D10699	ubiquitin carboxyl-terminal hydrolase PGP9.5			-2.0±0.5			
D14014	cyclin D1, complete cds			3.15±1.4			2.7±0.5
D84346	Nap1 protein, partial cds			-3.3±0.8			
D89514	5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase		-2.4±0.4		2.0±0.2		2.6±0.8
L32591	GADD45 (growth arrest and DNA damage inducer)					3.0±0.2	2.9±0.9
M24604	proliferating cell nuclear antigen (PCNA/cyclin)			2.5±0.3			2.5±0.5
U13176	ubc2e ubiquitin conjugating enzyme (E217kB)				2.6±0.5		2.1±0.2
U17565	intestinal DNA replication protein mRNA, partial						2.0±0.7
U30186	growth arrest and DNA-damage-inducible protein GADD153					2.1±0.8	
U54632	ubiquitin-conjugating enzyme UbcE2A				2.3±0.5		2.0±0.5
U61405	aryl hydrocarbon receptor nuclear translocator 2 (ARNT2)				2.2±0.2		
U63923	thioredoxin reductase				2.1±0.2		4.4±2.1
U77931	Ribin						2.1±0.1
U95727	DnaJ homolog 2				2.1±0.1	2.1±0.6	
X60767	cdc2 promoter region						
X70871	cyclin G			2.9±1.5		2.9±0.8	4.6±1.2
X75207	r cyclin D1						2.1±0.3
X96437	PRG1 gene				3.2±0.7	3.3±0.4	
X99723	homologue of brahma protein, C terminal				3.3±0.7	3.0±0.2	2.4±0.8
AB017912	Smad2 protein				2.4±0.3		2.7±0.7
AF027954	Bcl-2-related ovarian killer protein (Bok)			-3.9±1.1			
AF096291	Bcl-w (bcl-w)				2.6±0.5		
L09120	calpain II 80 kDa subunit						2.1±0.7
S78284	bcl-xshort=apoptosis inducer				2.3±0.5		
U34963	programmed cell death repressor BCL-X-Long				2.0±0.3		
Cytoskeletons							
AB008521	dynein light intermediate chain 53/55, partial cds				3.3±0.5	3.3±0.6	2.0±0.1
AB008752	delta-catenin, partial cds					4.2±0.8	
AB013130	synaptopodin				3.3±0.8	3.4±0.4	
AB015042	drebrin E, partial cds			-3±0.9			
AF004811	moesin mRNA,						2.3±0.6

AF019043	dynamin-like protein (DLP1)				2.8±0.5		2.3±0.4
AF020211	DLP1 splice variant 1 (DLP1)				4.9±1.3	2.3±0.1	
AF020212	DLP1 splice variant 2 (DLP1)				2.8±0.3		
AF021935	mytonic dystrophy kinase-related Cdc42-binding kinase (MRCK)				4.3±1.2		
AF021936	mytonic dystrophy kinase-related Cdc42-binding kinase MRCK-beta (MRCK-beta)				2.5±0.8	2.3±0.5	
AF035953	kinesin-related protein KRP4 (KRP4)				2.3±0.5		
AF054618	cortactin isoform C		-2.1±0.7		2.5±0.4		
AF060116	cortactin-binding protein 1				2.9±0.3		
AF083269	P41-Arc, (actin-related protein 2/3 complex subunit 1b)			3.9±1.3			4.1±1.7
AF083330	kinesin-like protein KIF3C (KIF3C)				4.9±0.4		2.1±0.2
AJ002556	STOP protein				2.2±0.2		
D42137	annexin V			3.1±0.6			
D88461	N-WASP				5.0±1.8	5.1±0.8	3.5±0.5
J02780	tropomyosin (TM-4					2.3±0.6	2.7±0.5
L11930	cyclase-associated protein homologue (MCH1)		-2.6±0.7		2.3±0.4		3.2±0.7
L13039	annexin II			3.4±0.9		2.7±0.5	5.0±0.1
L24776	tropomyosin non-muscle isoform NM3 (TPM-gamma)					-2.1±0.3	
M25638	smallest neurofilament protein (NF-L)				3.3±0.3	2.1±0.2	2±0.4
M34384	nestin mRNA						2.3±0.38
M83107	SM22 mRNA			7.3±2.42	4.1±0.8		5.9±1.7
S74907	protein phosphatase 1M 110 kda regulatory subunit				2.9±0.5	3.7±0.2	
S77900	myosin regulatory light chain isoform C						2.1±0.2
U38481	ROK-alpha				2.9±0.2	3.3±1.3	
U50707	P35 mRNA				6.0±1.3	2.0±0.4	2.9±0.8
U52950	DLP1 splice variant 2 (DLP1)		-2.3±0.1		2.8±0.6		
U59240	N-tropomodulin mRNA		2.9±0.2				
U60416	myr 6 myosin heavy chain mRNA		-2.5±0.5				
U75404	Ssecks 322 mRNA, 3' untranslated region, partial			2.2±0.3		2.5±0.5	2.3±0.8
U75920	APC binding protein EB1				2.6±0.8		
X03369	beta-tubulin T beta15			2.1±0.4			
X05566	myosin regulatory light chain (RLC)			2.8±0.3			2.8±0.5
X06801	vaskular alpha-actin				2.4±0.4		
X16623	neuraxin					2.1±0.4	
X17682	microtubule associated protein MAP2					-2.5±0.1	
X52840	smooth muscle myosin RLC-B		-3.1±3.5				
X54617	myosin regulatory light chain(RLC-A), exon 4				5.9±1.8		4.4±1.4
X62952	Vimentin (glial intermediate filament proteins)				12.1±2.2	2.2±0.5	7.9±1.2
X67788	ezrin p81				2.5±0.1		
X70706	T-plastin				2.2±0.8		

ECM and cell adhesive molecules

L00191	fibronectin						4.6±0.9
L14851	neurexin III-alpha				-3.0±0.8		

M21476	iodothyronine 5'-monodeiodinase (5'-MD)				2.9±0.6		2.6±0.2
M27207	alpha-1 type I collagen		-3.1±1.3				
M61875	glycoprotein CD44 (CD44)		2.6±0.5			3.4±0.7	4.7±1.2
M69246	collagen-binding protein (gp46)						5±0.7
M97161	neurocan mRNA						4.1±1.9
S61865	syndecan=heparan sulfate proteoglycan core protein						2.0±0.5
S66184	lysyl oxidase {3' region}						2.7±0.8
S81353	sulfated glycoprotein-1			-3.2±0.2			
U75405	alpha 1 type I collagen mRNA, 3' untranslated region		-2.4±0.5				
U81035	ankyrin binding cell adhesion molecule neurofascin				2.8±0.7		
U82612	fibronectin (fn-1) gene, partial						2.6±1.0
X05834	fibronectin gene 3'end			3.8±0.4		2.4±0.3	6.6±2.0
X63143	neuroglycan, partial (n-syndecan)				4.2±0.2	3.7±1.0	
X63722	vascular cell adhesion molecule-1					2.7±0.6	
X65036	H36-alpha7 integrin alpha chain						2.8±0.9
X76489	CD9 mRNA for cell surface glycoprotein						3.0±0.5
X78949	prolyl 4-hydroxylase alpha subunit					2.65± 0.3	
X99338	glycoprotein 65			-3.1±0.9			

Growth factors, cytokines and hormones and receptors

A09811	BRL-3A binding protein (insulin-like growth factor binding proteins)				4.9±1.4		4.6±1.2
AF009329	enhancer-of-split and hairy-related protein 1 (SHARP-1)		2±0.2				
AF009330	enhancer-of-split and hairy-related protein 2 (SHARP-2)				2.8±0.4		4.7±0.3
AF023087	nerve growth factor induced factor A		2.4±0.1		2.5±0.3		
AF036335	NonO/p54nrb homolog				3.0±0.4		4.2±0.8
AF037272	WAP four-disulfide core domain protein (ps20)				2.3±0.7		
AF075383	suppressor of cytokine signaling-3 (SOCS-3)						4.9±0.6
AF083418	insulin receptor substrate-2 (IRS-2)				3.7±0.7	3.5±0.4	
AJ003148	GAS-7 protein				3.1±0.6		
D10106	platelet-derived growth factor A chain				2.6±0.6		
D11445	gro,		4.4±0.7		4.3±2.8		7.2±1.8
D12498	FGF receptor-1				2.7±0.2	2.3±0.2	
D26154	RB109 (brain specific protein)		-2.2±0.3		2.3±0.5		
D82074	BHF-1(neurogenic differentiation 1)		-2.1±0.2				-2.0±0.2
J04486	insulin growth factor-binding protein mRNA	4.2±1.8		5±1.1			2.6±0.3
L05489	heparin-binding EGF-like growth factor mRNA,					2.4±0.1	
L08595	nuclear receptor (RNR-1)				3.2±0.5	2.3±1.0	
L13619	insulin-induced growth-respons protein (CL-6)					2.6±0.2	
L20913	vascular endothelial growth factor form 3				2.6±0.6		4.0±0.8

L25633	neuroendocrine-specific protein (RESP18)						2±0.1
L26292	FSH-regulated protein				2.2±0.2		
M12112	angiotensinogen mRNA, 3' flank					-2±0.1	-4.0±1.1
M32167	glioma-derived vascular endothelial cell growth factor					2.1±0.1	
M60921	NGF-inducible anti-proliferative putative secreted protein (PC3)				16.7±3.7	2.4±0.4	
M91595	insulin-like growth factor binding protein-2 gene						2.6±0.2
S54008	fibroblast growth factor receptor 1 beta-isoform	-3.7±1.2			2.5±.2	2±0.1	
S54212	ciliary neurotrophic factor receptor alpha component						2.7±0.9
S82649	Narp=neuronal activity-regulated pentraxin		4.9±1				16.4±3.8
U19866	growth factor (Arc)		5.6±0.9		6.8±1.7	3.7±0.3	
U53184	estrogen-responsive uterine mRNA, partial			2.1±0.3			
U95178	DOC-2 p59 isoform (growth inhibitory in human prostatic carcinoma cells)			3.1±0.7			4.0±1.1
X62322	epithelin 1 and 2			2.5±0.2			
Z35138	fibroblast growth factor receptor 2b, keratinocyte growth factor receptor (2117bp)					4.3±0.7	2.6±0.4 2.3±0.4
Z46882	TOAD-64		-3.3±0.6				

Inflammation, immune response and glia specific genes

AF028784	GFAP			2.3±0.3			5.5±2.2
AF030358	chemokine CX3C mRNA			-2.6±0.6			
AF074608	MHC class I antigen (RT1.EC2) gene						2.5±0.4
AF087943	CD14 mRNA, complete cds					3.8±0.4	3.9±1.0
AF087944	monocyte differentiation antigen CD14 gene, promoter region and partial cds					2.5±0.5	2.2±0.4
D00403	interleukin-1 alpha		3.0±0.3				
D28110	MOBP, myelin-associated oligodendrocytic basic protein		-2.2±0.3	-10.3±2.7	2.9±0.2		
D38468	BIT				2±0.1		
E01884	IL-1 beta		2.5±0.2		2.3±0.7	4.4±0.1	
J02962	IgE binding protein			9.1±3.2		2.9±0.3	9.1±2.9
J03627	S-100 related protein			6.7±1.7			5.2±1.6
J04488	prostaglandin D synthetase				2.1±0.2		
K00512	myelin basic protein (mbp) gene mrna			-2.8±0.9			
L00981	lymphotoxin (TNF-beta)					4.7±2.0	
L25925	cyclooxygenase-2 mRNA, complete cds					2.9±1	
L40364	MHC class I RT1.O type -149 processed pseudogene						2.4±0.2
M15562	MHC class II RT1.u-D-alpha chain			7.3±5.3		2.1±0.3	2.6±0.4
M24324	MHC class I RT1 (RTS) mRNA (u haplotype)						2.3±0.3
M25888	lipophilin mRNA						-2.0±0.1
M26744	IL-6					2.8±0.4	
M32062	Fc-gamma receptor		3.5±0.1			3.0±0.3, 3.4±0.3	2.0±0.2

M60103	leukocyte common antigen related protein mRNA						2.3±0.3
M98820	IL-1 beta		3.7±0.6		3.0±0.9	5.2±0.4	
S55427	myelin protein SR13=growth-arrest-specific Gas-3 homolog						2.1±0.1
S67722	cyclooxygenase isoform COX-2		6.0±1.0		3.4±1.0	5.1±0.7	2.2±0.6
S87522	leukotriene A4 hydrolase	-3.5±2.5					
U06434	macrophage inflammatory protein-1 beta (MIP-1 beta)		6±0.2			6.6±1.3	
U18729	cytochrome b558 alpha-subunit mRNA						4.4±2.1
U22414	macrophage inflammatory protein-1 alpha		11±1.4		6.1±1.4	13.7±1.0	
U31367	myelin protein MVP17			-2.1±0.4			-2.4±0.3
U31599	MHC class II-like beta chain (RT1.DMb) mRNA, partial cds						2.7±1.3
U48592	IL-1 R accessory protein				2.0±0.3		
U68272	interferon gamma receptor						2.8±0.7
X03015	OX-8 antigen						2.5±1.0
X06554	myelin-associated glycoprotein (S-MAG)			-2.5±0.6			
X61381	interferon induced mRNA		2.9±0.5	4.1±0.2		5±1.3	6.5±0.7
X71127	complement protein C1q beta chain			2.9±0.5			4.3±2.6

Ion channels and transporters

AB015432	LAT1 (L-type amino acid transporter 1)						2.6±0.8
AF004017	Na ⁺ -bicarbonate cotransporter					-2.2±0.4	-2.7±0.4
AF021923	potassium-dependent sodium-calcium exchanger (NCKX2)		-2.1±0.3				
AF038571	glutamate transporter				2.1±0.1		
AF048828	voltage dep. anion channel		-2.6±0.9	-4.4±0.4	2.4±0.3		
AF049239	voltage-gated sodium channel rPN4				3.3±0.4		
AF051527	class A calcium channel variant riA-II (BCCA1)				3.1±0.6		
AF083341	calcium-activated potassium channel (SLON-1) , partial				2.0±0.5		
AF086758	Na-K-2Cl cotransporter (Nkcc1) mRNA, partial cds				2.6±0.3	2.1±0.2	2.1±0.4
AF087453	potassium channel (KCNQ2)				3.1±0.7		
AF091247	potassium channel (KCNQ3)				2.7±0.1		
AJ001290	sodium myo-inositol transporter (SMIT)				2.6±0.9	2.9±1.0	2.5±0.4
D13962	neuron glucose transporter				3.5±1.3		
D13985	chloride channel RCL1		-2.6±0.2		2.5±0.5		
D87991	UDP-galactose transporter related isozyme 1						2.4±0.7
D90048	Na ⁺ , K ⁺ -ATPase (EC 3.6.1.3) beta2 subunit gene and 5' flank				7.5±0.2	6.4±0.8	5.7±1.4
D90049	Na ⁺ , K ⁺ -ATPase (EC 3.6.1.3) alpha2 subunit gene and 5' flank				6.2±2.0	6.4±0.8	
J04629	(Na ⁺ , K ⁺)-ATPase-beta-2 subunit				3.6±0.2	2.3±0.3	
L05557	plasma membrane calcium ATPase isoform 2 gene, exon n+3 and partial cds				2.6±0.4	2.0±0.4	
L11236	Na/H exchanger				2.3±0.5		

L35558	neuronal glutamate/aspartate transporter				2.7±0.7		
L39018	sodium channel protein 6 (SCP6)				2.5±0.5		2.0±0.1
M13979	Rat brain glucose-transporter protein					4.9±1.4	
M22254	sodium channel II mRNA			-2.6±0.2			
M27159	potassium channel-Kv2 gene, partial cds						2.3±0.2
M28648	Na,K-ATPase alpha-2 subunit			-3.9±0.5		2.0±0.4	
M59980	voltage-gated K+ channel protein (RK5)					-2.1±0.2	
M74494	sodium/potassium ATPase alpha-1 subunit truncated isoform	-2.4±0.1	-5.6±0.6		3.3±0.1		
M80804	cystine and dibasic and neutral amino acids	-2.7±1.0					2.5±1.1
M86621	dihydropyridine-sensitive L-type calcium channel alpha-2 subunit (CCHL2A) gene				-2.1±0.3		
M99222	pore-forming calcium channel alpha-1 subunit				3.6±0.4	2.8±0.3	
S67769	cardiac sodium/calcium exchanger						2.2±0.2
S75687	glutamate/aspartate transporter	-3.0±0.2			6.8±2.6	2.4±0.4	4.0±0.8
S76742	neurotransmitter transporter rB21a				2.5±0.4		2.4±0.8
S82233	rBSC2=Na-K-Cl cotransporter homolog				2.4±0.6		
U08141	Na+-Ca2+ exchanger NCX2 isoform				2.9±0.4	2.8±0.5	
U09243	GIRK1/KGA inwardly rectifying potassium channel				2.3±0.7		
U17133	zinc transporter ZnT-1 (ZnT-1)				2.2±0.5		
U37147	sodium channel beta 2 subunit (SCNB2)				3.1±1.0	2.7±0.6	
U81518	urea transporter (UT3)						2.1±0.6
U88036	brain digoxin carrier protein mRNA	-3.7±0.9					
X12589	voltage-dependent potassium channel protein					2.1±0.1	
X16476	potassium channel protein				2.6±0.3	2.3±0.1	
X57523	mtp1 mRNA	2.5±0.3					
X62841	potassium channel protein (2858 bp)					2.1±0.2	
X63375	Na, K-ATPase beta-1 subunit				3.3±0.2	2.6±0.5	3.4±0.8
X63744	glutamate/aspartate transporter protein					-2.6±0.7	
X70662	K+ channel protein, beta subunit				5.6±0.6	3.6±0.7	2.6±0.9
X76724	RCK beta2	-2.5±0.9	-2.6±0.4		4.1±0.1		
X98225	gastrin- binding protein	-2.7±0.3					
Y00766	brain sodium channel III				2.6±0.3		
Z36944	putative chloride channel				2.6±0.2	3.1±0.4	

Metabolism

AB000717	non-hepatic-type S-adenosylmethionine synthetase		2.08±0.1				2.4±0.1
AB002558	glycerol 3-phosphate dehydrogenase						5.5±1.9
AB006710	6-phosphofructo-2-kinase/fructose-2, 6-bisphosphatase, partial cds						2.8±0.2
AF036761	stearoyl-CoA desaturase 2	-2.8±0.9	-3±0.3		3.0±0.3	2.5±0.9	2.9±1.0
AF067790	gal beta 1,3 galNAc alpha 2,3-sialyltransferase				3.5±0.8		
AF067790	truncated palmitoyl-protein thioesterase (PPT-2)				3.5±0.8		

D00636	NADH-cytochrome b5 reductase				4.5±0.6		3.3±1.2
D10852	N-acetylglucosaminyltransferase III				4.5±1.3	3.4±0.9	2.5±0.7
D21869	phosphofructose kinase-M				3.3±0.6		
D78588	diacylglycerol kinase						-2.2±0.2
D87240	fructose-6-phosphate 2-kinase/fructose-2,6-bisphosphatase					3.1±0.5	
J02596	apolipoprotein C-III gene				2.4±0.4		2.9±0.5
J02722	heme oxygenase gene					3±0.1	3.8±1.8
J04791	ornithine decarboxylase (ODC)						2.0±0.3
J05181	gamma-glutamylcysteine synthetase				2.2±0.2		
J05405	heme oxygenase-2 (HO2)				2.8±0.3		
L01793	glycogenin				2.7±0.3		2.0±0.1
L25387	phosphofructokinase C (PFK-C) mRNA						2.1±0.1
L27075	ATP-citrate lyase				3.1±0.5	2.4±0.4	
L34821	succinate-semialdehyde dehydrogenase (SSADH)				2.2±0.6		
L48209	liver cytochrome c oxidase subunit VIII (COX-VIII)			-2.1±0.5			
M26594	malic enzyme gene						2.3±0.7
M27726	glycogen phosphorylase (B-GP1)				5.4±0.8	2.8±0.9	2.1±0.4
M29249	stearoyl-CoA desaturase 2				4.6±0.8	6.3±1.4	
M60322	aldose reductase	-2.9±1.3					
M63656	aldolase C gene						-2.4±0.3
M93297	ornithine aminotransferase (rOAT) gene, exon 7		-2.3±0.2	-2.5±0.5			
S68135	GLUT1=glucose transporter 1 {3' region}						2.2±0.2
S75730	stearoyl-CoA desaturase 2 SCD2 homolog				2.9±0.2		
S79304	cytochrome oxidase subunit I, Ser-tRNA	-2.5±1					
U20643	aldolase A gene				-18.15±3.5		
U27319	type I hexokinase (HKI) gene				3.65±1.2		
U35774	cytosolic branch chain aminotransferase	-2.33±0.3		-3.73±0.4		2.2±0.3	
U36772	glycerol-3-phosphate acyltransferase						2.5±0.5
U63923	thioredoxin reductase				2.1±0.2		4.4±2.1
U67995	stearoyl-CoA desaturase 2			-3.53±0.5	2.05±0.1		
U76557	O-GlcNAc transferase, p110 subunit (OGT)				3.2±0.8		
X06984	aldolase C			-2.2±0.4			
X13527	mRNA fragment for the acyl carrier protein domain of fatty acid synthetase			-2.8±1.8	2.9±0.9	2.3±0.6	
X14848	mitochondrial genome				-4.1±1.2		-3.1±0.3
X54081	cytochrome c oxidase subunit IV			-2.2±0.4			
X55286	(3-hydroxy-3-methylglutaryl coenzyme A) HMG-CoA reductase				2.6±0.7	3.5±0.3	
X76988	gal beta 1,3 galNAc alpha 2,3-sialyltransferase				3.6±0.3		
Y12517	mitochondrial isoform of cytochrome b5				2.6±0.2	2.1±0.2	
Y12635	vacuolar adenosine triphosphatase subunit B		-2.2±0.3	-5.4±1.4	2.1±0.4		

Z12158	pyruvate DH E1 alpha form 1 su		-3.6±0.5	-3.0±0.7	3.6±0.4		2.2±0.3
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Proteases

S40669	type 2 proinsulin processing endopeptidase=subtilisin homolog				4.7±0.8	2.7±0.2	
M76426	dipeptidyl aminopeptidase-related protein (dpp6)				3.4±0.3		
M57728	general mitochondrial matrix processing protease (MPP)				2.9±0.3		
AF004661	Ra-reactive factor serine protease p100				2.8±0.5		2.3±0.3
Z48444	disintegrin-metalloprotease				2.6±0.7		2.2±0.3
U13176	ubc2e ubiquitin conjugating enzyme (E217kB)				2.6±0.5		2.1±0.2
U54632	ubiquitin-conjugating enzyme UbcE2A				2.3±0.5		2.0±0.5
AF099093	ubiquitin-conjugating enzyme UBC7				2.1±0.3	2.1±0.3	
M24067	plasminogen activator inhibitor-1 (PAI-1)					2.8±0.7	
D00753	contrapsin-like protease inhibitor related protein (CPI-26)		3.9±0.2	4.8±3		3.6±0.2	17.2±6.3
U13895	MSS1 protein (MSS1) mRNA, partial cds		-2.3±0.3				2.3±0.6
D90258	proteasome subunit RC8						2.3±0.6
D90404	cathepsin C						2.4±0.6
AF016269	myelencephalon specific protease			3.9±0.9			2.5±0.5
X83537	membrane-type matrix metalloproteinase						2.5±0.6
D10729	proteasome subunit RC1						2.9±0.6
D10699	ubiquitin carboxyl-terminal hydrolase PGP9.5			-2.0±0.5			
X76985	latexin			2.6±0.2			
D45249	proteasome activator rPA28 subunit beta			2.6±0.4			
L38482	serine protease gene			-3.4±0.9			

Signal transduction

AB006013	RGS8 (regulators of G-protein signalling)					2.1±0.1	
AB010154	serin/threonine protein kinase expressed in hippocampus, partial cds					2.2±0.4	
AF001953	G-protein beta su 5				2.5±0.3		
AF008650	somatostatin receptor-like protein (SLC1)		-2.1±0.5		2.4±0.3		
AF013144	MAP-kinase phosphatase (cpg21)				3.1±1.2		
AF022085	guanine nucleotide binding protein beta 4 subunit						2.0±0.6
AF023621	sortilin				3.3±1.1	3.0±1.2	
AF055065	signal regulatory protein alpha				5.7±1.0	3.7±0.6	3.6±0.8
AF060819	ras guanyl releasing protein (rasGRP)		-2.0±0.4		3.6±0.6	3.3±0.7	2.4±0.3
AF061443	G protein-coupled receptor LGR4 (LGR4)		-2.0±0.3				
AF061947	cain mRNA, complete	-2.8±0.5					
AF068261	pancreatic serine threonine kinase				3.3±0.6		
AF081196	calcium and DAG-regulated guanine nucleotide exchange factor II	-2.5±0.6	-4.9±1.4	-2.8±1.4	3.2±0.6		3.4±1.5
AF084205	serine/threonine protein kinase				3.2±0.8		2.4±0.4

AF085693	G protein-coupled receptor kinase-associated ADP ribosylation factor GTPase-activating protein (GIT1)				2.2±0.4		
AF092450	JIP-1 related protein (JRP)			-3.7±0.9			
AJ000556	JAK1		-2.3±0.7		3.6±0.3		3.1±1.2
AJ005425	MEF(Myocyte enhancer factor)2D protein					3.1±1.1	
D01046	GTP binding protein		-3.7±1.3		3.3±0.4		2.1±0.1
D10666	neural visinin-like protein (NVP),		-2.1±0.3	-2.4±0.1			
D10770	beta isoform of catalytic subunit of cAMP-dependent protein kinase		-2.3±0.4		5.7±1.7	3.9±0.5	2.9±0.4
D12524	c-kit receptor tyrosine kinase		-2.7±0.4	3.6±0.2	2.3±0.7		
D13125	neural visinin-like Ca ²⁺ -binding protein type 2 (NVP-2)			-3±1.2			
D14419	B-regulatory subunit of protein phosphatase 2A (PP2A)		-2±0.1		3.1±0.4	2.3±0.3	2.9±0.5
D14425	calcineurin B		-2.9±0.5	-3±0.4	3.1±0.5		
D14568	calcineurin B		-3.4±0.6	-4.5±1.1	4.7±0.1		2.3±0.1
D14591	MAP kinase kinase			-3.8±1.3	2.1±0.2		
D14819	calcium-binding protein P23k beta, partial cds				3.2±0.2		
D14909	rat PACAP (Pituitary adenylate cyclase-activating polypeptide) receptor				2.8±0.6	2.7±0.8	
D29683	endothelin-converting enzyme (SH3-containing signaling molecule)						2.2±0.1
D31873	LIMK-1, complete	-2.1±0.8					
D37951	MIBP1 (c-myc intron binding protein 1)				3.6±0.9		
D38261	B-regulatory subunit of protein phosphatase 2A		-2.6±0.4	-2.4±0.8	4±0.6	2.5±0.3	2.5±0.5
D38448	88kDa-diacylglycerol kinase (DGK-III)	-4.4±3.7					
D44481	CRK-II				3.2±1.3	3.6±0.5	2.3±0.4
D78588	diacylglycerol kinase						-2.2±0.2
D84477	RhoA, partial cds		-2.2±0.7		2.9±0.7		2.6±0.1
D85760	G alpha 12				4.2±1.9		
D86641	FK506-binding protein 12			-2.7±0.1	2.6±0.5		
J02942	calcium/calmodulin-dependent protein kinase type II alpha-subunit				3.5±0.1		
J03773	guanine nucleotide-binding regulatory protein alpha subunit				2.7±0.4		
J04503	protein phosphatase 2c				2.1±0.3		
J04563	cAMP phosphodiesterase					2.7±0.1	
K03486	protein kinase C type III			-3.9±0.6			
L01624	serum and glucocorticoid-regulated kinase (sgk)		2.1±0.2			2.4±0.3	2.5±0.2
L02615	cAMP-dependent protein kinase inhibitor (PKI)				2.7±0.3	2.6±0.4	
L04760	nucleotide binding protein mRNA				3.0±0.2		2.2±0.3
L09119	C kinase substrate calmodulin-binding protein (RC3)						-2.3±0.5
L09656	salivary-specific cAMP response element-binding protein alpha				2.0±0.3		
L11930	adenylyl cyclase-associated protein homologue (MCH1)		-2.6±0.7		2.3±0.4		3.2±0.7
L12380	ADP-ribosylation factor 1			-3±0.1			

L12382	ADP-ribosylation factor 3		-2.1±0.2	-2.5±0.2	2.9±0.3		
L16532	2',3'-cyclic nucleotide 3'-phosphodiesterase (CNPII)				2.9±0.6		-2.2±0.2
L18948	intracellular calcium-binding protein (MRP14)					3.2±0.2	
L19341	activin type I receptor				2.7±0.8		2.0±0.5
L19933	Rat protein tyrosine phosphatase			-2.9±0.3			
L26525	tyrosine kinase receptor (Ptk-3) gene				2.4±0.3		2.9±0.4
L27112	stress activated protein kinase alpha II mRNA		-3.0±0.5		5.9±2.9	2.1±0.4	3.2±0.8
L27421	neuronal calcium sensor (NCS-1)		-2.1±0.3		4.6±0.9		2.7±0.6
M15523	protein kinase C-family related mRNA, partial			-2.7±0.3			
M16112	brain type II Ca2+/calmodulin-dependent protein kinase beta subunit			-2.5±0.1			
M16960	calcium-calmodulin-dependent protein kinase II				2.9±0.6		
M17527	GTP-binding protein (G-alpha-i1)		-3.0±0.8	-2.3±0.5	2.9±0.4		2.0±0.2
M18330	protein kinase C delta subspecies					2.4±0.4	
M25350	cAMP phosphodiesterase (PDE4) mRNA					2.7±0.4	
M31809	calcineurin A-beta				2±0.1		
M55417	protein kinase C-gamma (PRKC-gamma) gene				5.7±1.2		
M60322	88kDa-diacylglycerol kinase (DGK-III)	-2.9±1.3					
M63333	calmodulin-dependent protein kinase(CaM kinase-GR) gene, exon D				3.4±0.6	2.6±0.3	
M64300	extracellular signal-related kinase (ERK2) mRNA		-3.0±0.4		6.3±1.2	2.3±0.3	4.1±0.6
M64698	inositol 1,4,5-trisphosphate receptor (IP-3R)				2.3±0.4		
M83678	Rab13			2.6±0.2			
M83679	(clone LRB9) RAB15				2.7±0.4	2.8±0.6	
M87854	beta-adrenergic receptor kinase 1 (beta-ARK1)			-2.2±0.6			
M94537	cyclic nucleotide phosphodiesterase (CaM-PDE)			-2.6±0.2			
S48813	beta-adrenergic receptor kinase		-2.2±0.3		2.7±0.7		2.2±0.8
S49760	diacylglycerol kinase						2.2±0.6
S50461	G alpha 12z,=signal-transducing G protein alpha 12 subunit		-2.2±0.4		3.6±0.3		2.3±0.2
S65091	cyclic AMP-regulated phosphoprotein		3±0.5				
S74351	protein tyrosine phosphatase				19.5±5.0	5.5±0.6	
S74572	Mg2+ dependent protein phosphatase beta isoform {alternatively spliced}				4.3±1.6	3.0±0.2	2.4±0.4
S80376	G alpha olf=GTP-binding protein Golf alpha subunit				2.1±0.5		
S90449	protein phosphatase 2C isoform				2.9±0.3		
U02553	protein tyrosine phosphatase				20.5±4.2	5.5±1.3	
U03390	protein kinase C receptor			2.1±0.2			
U04808	putative G-protein coupled receptor (GCR)						2.2±0.3
U13396	protein-tyrosine kinase (JAK2)		2.1±0.5				
U17035	mob-1		4.8±1.6			6.9±0.7	

U21954	tyrosine kinase receptor Ehk-3				2.2±0.5		
U27767	RGP4 (regulators of G-protein signalling) mRNA					2.3±0.4	2.4±0.4
U29339	ErbB3/Her3 precursor				2.7±0.4		
U31159	SH(Src homolog)3 domain binding protein (CR16)				2.5±0.7		
U31160	SH3 domain binding protein (CR16) gene, exon 1				3.8±0.4	3.0±0.3	3.5±0.4
U38481	ROK-alpha				2.9±0.2	3.3±1.3	
U38653	olfactory inositol 1,4,5-trisphosphate receptor (InsP3R)				3.8±0.3	3.2±0.4	2.7±1.1
U38812	olfactory inositol 1,4,5-trisphosphate receptor (InsP3R) mRNA, partial cds				6.9±1.6	4.2±0.3	3.3±0.3
U39875	EF-hand Ca2+-binding protein p22				2.7±0.2		2.5±0.5
U40790	vascular protein tyrosine phosphatase-1 rDEP-1					4.1±1.8	
U41453	PKC binding protein and substrate					2.5±0.4	
U41663	neuroligin 3				2.8±0.3		
U49953	protein kinase MUK2			-3.0±0.4			
U53449	jun dimerization protein 2 (jdp-2)				2.9±1.1	3.0±0.4	
U57500	protein tyrosine phosphatase alpha	-2.3±0.2		-3.1±1.8	-2.1±0.3		
U67987	guanylate kinase associated protein (GKAP)				5.3±0.9		
U69109	calcium-dependent tyrosine kinase			-5.4±1.8	2.2±0.4		
U73458	protein tyrosine phosphatase (PTPNE6) mRNA					2±0.2	
U87305	transmembrane receptor Unc5H1				5.4±0.5	2.2±0.3	
U88324	G protein beta1 subunit (rGb1)			-2.0±0.4	-2.4±0.1		-3.8±0.9
U91847	p38 mitogen activated protein kinase				2.4±0.4	2.4±0.3	2.3±0.4
U95157	ryanodine receptor type II (RATRYR2)				2.5±0.3		
U97142	RET ligand 1 (RETL1)	-2.4±0.7					3.0±0.8
X06889	ras-related mRNA rab3			-3.2±0.7			
X06916	protein p9Ka homologous to calcium-binding protein				10.1±3.7		8.0±2.7
X07286	protein kinase C alpha				2.5±0.6		
X07287	protein kinase C gamma	-2.5±0.7	-2.3±0.1	-7.4±1.4	2.4±0.2		
X12535	ras-related protein p23			-3.6±0.5	3.9±0.5	2.3±0.2	2.3±0.4
X13905	ras-related rab1B	-3.2±0.6		-3.3±0.7		2.2±0.2	2.4±0.7
X14265	CaMIII gene for calmodulin III			-2.1±0.1			
X16043	phosphatase 2A catalytic subunit isotype alpha			-2.3±0.2			
X53363	calreticulin				2.3±0.5		
X57405	homologue of Drosophila notch protein					2.7±0.7	
X58631	protein-tyrosine kinase				2.4±0.3		2.7±0.9
X59737	ubiquitous mitochondrial creatine kinase				-2.1±0.2	-2±0.1	-2.2±0.3
X61677	type 2 inositol triphosphate receptor					2.8±1.4	
X62875	High Mobility Group Protein I					2.8±0.9	
X63594	RL/IF-1		4.1±0.7, 5.1±0.5		4.9±0.6	8.8±0.7, 8.8±0.2	
X68394	N-ras gene for p21 protein						2.1±0.5
X74402	rab GDI alpha		-2.3±0.4	-3.3±1.0			
X76454	ri1 mRNA					3.2±0.4	6.8±2.1

X89383	SNF1-related kinase				2.1±0.3		
X91810	Stat3 protein						2.3±0.5
X94185	dual specificity phosphatase, MKP-3				7.6±1.4		2.6±0.7
Y08355	PKC-zeta-interacting protein			-3.1±0.6			
Z21935	protein kinase rMNK2					3.5±0.8	
Z35654	Ost oncogene				2.4±0.2		2.7±0.9

Stress related genes

AF039203	corticotropin-releasing factor type 1 receptor				2.3±0.3		
AF051895	lipocortin (Annexin) V mRNA, partial cds						4±0.7
AF077354	ischemia responsive 94 kDa protein (irp94)					2.3±0.1	
D00680	plasma glutathione peroxidase				2.0±0.5		
D28557	RYB-a		2.4±2.9				
D86041	N-G,N-G-dimethylarginine dimethylaminohydrolase						3.0±0.5
E12625	rat novel protein which is expressed with nerve injury				2.8±0.2		2.1±0.3
J03752	glutathione S-transferase mRNA			3.1±0.3			2.8±0.4
J05122	peripheral-type benzodiazepine receptor (PKBS)			3.8±1.01			4.6±0.7
L16764	heat shock protein 70 (HSP70)			10.9±5.2		5.0±1.2	
M11794	metallothionein-2 (&1)		7.1±1.2	5.4±2.2	3±0.5	8.3±1.2	6.4±1.3
M34253	interferon regulatory factor 1 (IRF-1)		6.9±2.1		2.2±0.5	8.1±1.8	
M55534	alpha-crystallin B chain mRNA	2.5±0.2					
M58040	transferrin receptor				3.5±0.5		
M86389	heat shock protein (Hsp27)			11.7±4.8			44.4±16.4
S78556	grp75=75 kda glucose regulated protein						2.0±0.42
S81478	3CH134/CL100 PTPase=oxidative stress-inducible protein tyrosine phosphatase				14.1±3.5		
S81917	cysteine string protein=34 kDa DnaJ-hsp40 heat shock-chaperone protein				3.9±0.3	2.9±0.6	
U20181	iron-regulatory protein 2 (IRP2)				2.7±0.2		2.3±0.4
U53486	corticotropin releasing factor receptor gene, exon 1		-2.7±0.2				
U68562	chaperonin 60 (Hsp60) and chaperonin 10 (CPN10) genes, nuclear genes encoding mitochondrial proteins						2.0±0.4
X07365	glutathione peroxidase			3.4±0.6			2.9±0.6
X15705	testis-specific heat shock protein-related gene hst70						2.7±0.4
X60351	alpha B-crystallin (ocular lens tissue)						2.3±0.1
X82021	heat shock related protein						2.3±0.3
Y09507	hypoxia-inducible factor 1				2.5±0.5		2.3±0.8
Z27118	heat shock protein 70					7.3±1.4	
Z75029	hsp70.2 mRNA for heat shock protein 70		7.8±3.1		4.7±2.3	6.6±2.2	

Synaptic plasticity

AB003726	Vesl		6.3±1.2			3.1±0.2	
AB003991	SNAP 25-A		-2.1±0.2	-2.7±0.4			
AB003992	synaptosome asso. Pro. (SNAP) 25B		-2.5±0.3	-2.9±0.3			

AB016160	GABAB receptor 1c, complete cds			-4.0±1.6 - 2.1±0.2			
AB016161	GABAB receptor 1d				2.2±0.5		
AF000423	synaptotagmin XI		-3.2±0.6		6.9±0.4	4.3±0.6	5.6±0.4
AF009603	SH3p4 mRNA, partial				4.0±0.4	2.9±0.3	2.9±1.0
AF018261	EH domain binding protein Epsin			-3.7±0.6			
AF031430	syntaxin 7					2.4±0.5	2.5±0.3
AF032666	rsec5 mRNA, complete	-2.1±0.8					
AF033027	prenylated SNARE protein Ykt6p (Ykt6)			-2.2±0.3			
AF035632	syntaxin 12				3.2±0.8		
AF058789	SynGAP-a				5.1±0.6		3.1±1.1
AF065149	rANK3.C-ter ankyrinG (Ank3)				3.6±0.7	2.1±0.4	
AF074482	GABA-B receptor 2 (GABA-BR2)				4.0±0.8		
AF087696	dlg 2 mRNA, partial cds					2.5±0.4	
AF087697	dlg 3, partial				2.1±0.2	3.0±1.4	
AF089839	N-ethylmaleimide sensitive factor (NSF), partial				7.1±1.7	3.6±0.8	2.9±1.1
AF090136	lin-7-C				2.2±0.3		
AF091834	N-ethylmaleimide sensitive factor NSF, partial cds		-3.7±0.4		11.7±4.7	3.9±0.5	3.6±0.4
AF102853	membrane-associated guanylate kinase-interacting protein 1 Maguin-1				2.1±0.6	2.9±0.6, 2.3±0.4	
AF109405	GABA-B receptor 2				2.7±0.1		
AJ006855	synaptojanin	-3.2±0.8					
AJ007422	IP4/PIP3 binding protein				2.1±0.1		
D16817	metabotropic glutamate receptor mGluR7				2.0±0.2		
D70817	synaphin 2			-7.6±2.7	2.4±0.4		
D83538	230kDa phosphatidylinositol 4-kinase				3.5±0.6		
D84667	phosphatidylinositol 4-kinase				3.7±0.4		3.2±1.0
E12159	encoding protein capable of binding with inositol-1,4, 5-triphosphate						2.5±0.2
L08490	GABA-A receptor alpha-1 subunit				5.5±0.4	3.3±0.6	2.6±0.1
L08493	GABA-A receptor alpha-4 subunit				2.8±0.4	4.2±0.2	
L08494	GABA-A receptor alpha-5 subunit				4.1±0.5		
L08497	GABA(A) R gamma 2				3.5±1.1	2.4±0.3	2.9±0.5
L20823	syntaxin 2 mRNA, complete						2.2±0.4
M16406	m1 muscarinic acetylcholine receptor gene				3.8±0.5	3.2±0.6	
M21410	serotonin 1c receptor				2.0±0.2		
M24104	vesicle associated membrane protein (VAMP-1)		-3.9±0.5		3.4±0.7, 5.1±1.0	2.1±0.2	3.5±0.7
M34176	beta adaptin		-2.1±0.1		3.9±1.9		2.3±0.2
M36418	glutamate receptor (GluR-A) mRNA					-2.0±0.2	-2.7±0.2
M36419	glutamate receptor (GluR-B)		-2.2±0.2	-3.3±0.7			
M92076	metabotropic glutamate receptor 3						-2.3±0.3
M96630	sec61 homologue						2.4±0.3
S39221	NMDA receptor				4.5±1.0	3.1±0.8	3.0±0.1
U11418	NMDAR1 glutamate receptor subunit				2.1±0.4		
U20106	synaptotagmin VII				2.3±0.1	2.3±0.3	
U24070	Munc13-1				2.4±0.8		
U35099	complexin II mRNA					-2.2±0.2	-2.5±0.2
U39320	cysteine string protein				3.2±0.2		

U49049	chapsyn-110 mRNA					2.1±0.3	
U49099	cis-Golgi p28 (p28)				-4.4±0.9		
U50147	synapse-associated protein 102		-2.5±0.6		2.8±0.4		
U50717	synaptic density protein PSD-93				2.6±0.1		
U56261	SNAP-25a mRNA, partial cds				4.8±1.2	4.2±0.6	3.1±0.4
U67137	PSD-95/SAP90-associated protein-1		-2.6±0.1				
U67139	PSD-95/SAP90-associated protein-3				2.0±0.4	3.0±0.2	
U67140	PSD-95/SAP90-associated protein-4					2±0.5	
U79417	71 kDa component of rsec6/8 secretory complex p71				2.7±0.6	2.5±0.6	2.1±0.4
U92072	m-tomoyin				2.8±0.3	2.1±0.3	2.1±0.4
X15467	GABA(A) receptor beta-2 subunit				2.2±0.2		
X15468	GABA(A) receptor beta-3 subunit				3.5±0.7	2.6±0.3	2.2±0.4
X17184	glutamate receptor, AMPA subtype, GluR1						-5.9±1.6
X52772	RRP65 R.rattus p65 (synaptotagmin I)				8.7±0.2	4.7±1.3	4.1±0.6
X92097	transmembrane protein		-2.6±0.2	-2.3±0.5	2.8±0.3		2.2±0.2
X97443	transmembrane protein Tmp21-l						2.7±1.0
Z46614	caveolin						3±0.9

Transcription factors, immediate early genes and other expression related genes

AB012230	NF1-B1			-2.6±0.7	2.1±0.3		
AB012234	NF1-X1				-2.1±0.3	-2.5±0.2	-2.9±0.2
AB012235	NF1-X1, partial cds			-3.7 ± 1.5			
AF000942	Id3a mRNA, complete cds		-3±0.2				
AF001417	zinc finger protein				3.7±0.3	4.1±0.2	3.2±0.7
AF015911	NAC-1 protein (NAC-1)				4±0.6	3.2±0.6	2.5±0.7
AF022081	small nuclear RING finger protein				3.0±1.1	2.9±0.2	2.4±0.4
AF030086	activity and neurotransmitter-induced early gene 1 (ania-1)				3.6±0.3		
AF030087	activity and neurotransmitter-induced early gene 2 (ania-2)				2.1±0.3; 3.4±0.7		
AF030089	activity and neurotransmitter-induced early gene 4 (ania-4)		4.8±1.5	3.9±0.3		2.8±0.4	2.7±0.5
AF030091	activity and neurotransmitter-induced early gene 6 (ania-6)				3.1±0.6	4±1.7	
AF041066	ribonuclease 4				2.2±0.3		
AF050659	activity and neurotransmitter-induced early gene 7 (ania-7)				5.5±2.4		
AF050660	activity and neurotransmitter-induced early gene 8 (ania-8)				9.7±4.8		
AF063447	nuclear RNA helicase			2.7±1.0			2.4±0.3
AF079873	splicing factor 1 homolog mRNA, partial cds				3.5±1.0	3.4±0.4	2.3±0.1
AF100470	ribosome attached membrane protein 4 (RAMP4)				6.2±1.3; 2.5±0.5	2.9±0.6	3.3±0.8
AJ010386	ETR-R3b protein, alternatively spliced isoform				3.3±0.2		2.5±0.1
D12516	HES-5				3.4±0.7		
D13417	transcription factor HES-1					2.9±0.6	
D26307	jun-D gene, complete cds					2.8±0.2	
D64059	mRNA for helicase II, partial cds				-2.7±0.5		

E12829	protein TIP120 which is formed of complex with TBP (TATA binding protein)				2.1±0.5		
E13644	neurodap-1			-3.5±0.2			
J05571	S-adenosylmethionine synthetase				5.2±0.4	3±0.2	2.1±0.1
L14462	R-esp1			-2.8±0.4			
L23148	inhibitor of DNA-binding, splice variant Id1.25						3.1±0.8
L26267	nuclear factor kappa B p105 subunit		4.9±1.0			4.6±0.9	2.1±0.4
M18416	nerve growth factor-induced (NGFI-A) gene		2.6±0.3		4.3±0.5	2.8±0.3	
M33025	parathymosin			-2.9±0.5			
M63282	leucine zipper protein		2.3±0.3		2.3±0.4		
M65148	RATF2 mRNA		-2.1±0.24		2.6±0.1		
M65149	CELF		6.6±0.8			6.0±1.4	
M92433	NGFI-C gene	4.6±1.9			4.5±1.3		
M98327	transfer RNA-Valine synthetase mRNA				2.5±0.2		2.1±0.6
S58745	thyrotroph embryonic factor=leucine zipper transcription factor				2.1±0.1		
S66024	transcriptional repressor CREM					2.1±0.1	
S77528	rNFIL-6=C/EBP-related transcription factor				3.2±0.6	4±0.2	
U01146	nuclear orphan receptor HZF-3 (HZF-3)				3.4±0.6		
U17254	immediate early gene transcription factor NGFI-B	6.0±1.1			8.7±1.4		
U18942	double-stranded RNA-specific adenosine deaminase				3.3±1.0	2.4±0.4	2.2±0.2
U19516	initiation factor eIF-2Be mRNA					2.4±1.0	
U31668	transcription factor E2F-5 mRNA, partial					2.1±1.0	
U35890	polypeptide GalNAc transferase T1				2.2±0.2		
U56862	pancreas only zinc finger protein (POZF-1)				3.3±0.3	2.2±0.5	
U64705	protein synthesis initiation factor 4All gene, partial			-2.2±0.1			
U75397	Krox-24		2.4±0.3		2.8±0.4		
U75398	Krox-24 mRNA, partial cds				4.4±1.3		
U78102	krox20 mRNA	5.1±0.8			5.2±2.5		
U94340	poly(ADP-ribose) polymerase			-3.0±0.4			
X06423	ribosomal protein S8			2.0±0.2			
X06769	c-fos	11.2±0.7	3.9±1.2		18.8±5.7	5.1±1.4	
X07266	gene 33 polypeptide				6.9±1.0		
X13167	NF-1 like DNA-binding protein				2.7±0.6		
X17053	immediate-early serum-responsive JE gene		39.9±16.0	7.7±2.1	3.1±0.8	37.3±3.4	10.4±5.3
X17163	c-jun oncogene mRNA for transcription factor AP-1				6.3±1.3		
X54686	pJunB		3.7±0.5		22.2±7.4	7.8±0.7	2.3±0.7
X59375	ribosomal protein S27			3.9±0.4			3.5±0.3
X59608	RNA PolII-c-DNA				3.7±1.0		
X60769	sfb mRNA for silencer factor B				2.9±0.5	2.5±0.2	
X63369	TIS 11				3.0±0.7	2.7±0.5	
X73411	snRNP-associated polypeptide N, FE gene			-2.4±0.3			

X74565	polypyrimidine tract binding protein				2.4±0.4		2.7±0.7
X86003	neuron-derived orphan receptor-2				5.0±2.6		
X90823	USF2a & USF2b					2.8±0.2	
Y00396	c-myc		2.4±0.7				
Y09000	dendrin			-2.2±0.4			
Z38067	c-myc, exon 2				2.4±0.6		

Uncategorized transcripts

AB020019	BEIGE, complete cds						2.1±0.4
AF054586	brain finger protein (BFP)	-2.5±0.7					
AF065438	mama mRNA						2.1±0.2
AF069782	unknown mRNA					2.6±0.7	
AF087037	BTG3 mRNA, complete cds					2.0±0.2	
AJ222724	small glutamine-rich tetratricopeptide repeat (TPR) containing protein (SGT)				3.3±2.0		2.6±0.4
D00092	70 kd mitochondrial autoantigen, partial cds				2.8±0.3		
D14448	Max mRNA				2.5±0.2		
D17764	phosphoneuroprotein 14 (b-synuclein)			-3.7±0.7			
D25233	retinoblastoma protein, partial sequence				2.2±0.1		
D38629	APC protein				2.9±0.1		
D49434	arylsulfatase B				2.2±0.3		
D88035	glycoprotein specific UDP-glucuronyltransferase				3.1±0.7	2.3±0.7	
E03428	peptidylglycin-alpha-amidating monooxygenase			-2.9±0.3			
L19306	tumor suppressor mRNA fragment 4 of 6				4.9±1.3		3.0±0.8
L34542	non-receptor protein kinase (batk)			-3.3			
M13100	long interspersed repetitive DNA sequence LINE3 (L1Rn)	-3.6±1.2		-5.6±2.9		2.6±0.3	
M13101	long interspersed repetitive DNA sequence LINE4 (L1Rn)	-4.1±2.5			2.0±0.3	2.8±0.4	
M19257	cytosolic retinol-binding protein (CRBP)						2.8±1.1
M22340	RATLNKP5 Rat link protein gene, exon 5				2.2±0.5		
M22670	alpha-2-macroglobulin gene, exons 5 and 6					3.3±1.6	
M23697	tissue-type plasminogen activator (t-PA)					3.6±0.6	
M55017	nucleolin gene				2.7±1.0	2.6±0.3	2.03±0.78
M80367	isoprenylated 67 kDa protein					2.3±0.4	
M92042	N-heparan sulfate sulfotransferase				2.6±0.5		
M94918	beta-globin gene, exons 1-3	3.0±0.5					
S69874	C-FABP=cutaneous fatty acid-binding protein			2.5±0.1			2.0±0.1
S75019	antiquitin=26g turgor protein homolog						2.2±0.7
S76779	rApoE=apolipoprotein E						-2.1±0.3
S80345	VHL=von Hippel-Lindau tumor suppressor gene homolog				3.9±1.0	4.4±0.4	2.2±0.2
U07619	tissue factor protein mRNA		2.5±0.5			2.3±0.3	
U09540	cytochrome P450 (CYP1B1)					2.6±0.3	

U31554	limbic system-associated membrane protein mRNA				-3.8±0.8	-4.5±0.5	-5.4±1.3
U31777	atrophin-1 (DRPLA)				4.2±1.2		
U31866	Nclone10 mRNA						2.8±0.4
U35775	gamma-adducin (PKC substrate)		-7.5±6.6				
U44091	atrophin-1 related protein (rARP)				3.5±0.9	3.2±0.2	
U48828	retroviral-like ovarian specific transcript 30-1	-2.1±0.8			-2.2±0.3		
U83119	L1 retrotransposon ORF2	3.0±0.3		-3.6±1.5		2.9±0.3	
U92081	epithelial cell transmembrane protein antigen precursor (RT140) gene, promoter region and exon 1			6.7±0.1			5.7±0.4
U93197	RN protein				3.3±0.3	2.3±0.4	
X03347	REMSVFBR FBR-murine osteosarcoma provirus genome	15.9±3.5	3.1±1.4		18.9±4.2	3.2±1.9	
X04979	apolipoprotein E						-2.7±0.4
X05472	2.4 kb repeat DNA right terminal region			-3±1.3			
X07648	amyloidogenic glycoprotein (rAG)			-2.7±0.3	2±0.0		
X13722	LDL-receptor					3.3±0.3	
X52583	nuclear pore glycoprotein P62				2.2±0.2		
X53565	trans-Golgi network integral membrane protein TGN38		-2.1±0.4		3.9±1.0	2.5±0.3	2.83±0.67
X53581	long interspersed repetitive DNA containing 7 ORF's	-2.8±1.5			-2.2±0.1	2.4±0.3	
X56325	2-alpha-1 globin gene	2.7±0.3					
X59864	ASM15 gene						2.9±0.3
X60468	FE65 gene for adaptor protein interacting with the beta-amyloid precursor protein intracellular domain			-6.3±1.3	2.1±0.1		
X61654	ad1-antigen			3.3±0.5			2.9±0.5
X77934	amyloid precursor-like protein 2		-3.0±1.1	-2.6±0.6	6.2±1.2	2.5±0.3	2.9±0.2
X86789	sensory neuron synuclein	-4.1±1.1					
X99337	glycoprotein 55		-2.9±1.5	-3.8±1.6	2.9±0.5		
Z14030	TRAP-complex gamma subunit				4.3±0.9	3.9±1.2	2.9±0.3

ESTs

AA108277				-3±0.3	2.8±0.7	2.5±0.6	
AA685903			-2.6±0.1		2.7±0.2		2.6±0.5
AA686031					2.2±0.3	2.2±0.1	
AA686579			-2.2±0.5				
AA799421							-2.1±0.6
AA799448			2.4±0.2				
AA799501						-2.5±0.8	
AA799560							-2.5±0.2
AA799571			-2.6±1.0	-3.1±0.6			
AA799594							-2.3±0.6
AA799636						-2.1±0.5	
AA799687			-2.4±0.9				
AA799729			2.5±0.2				
AA799771						2.2±1.0	
AA799773							2.4±0.6
AA799803							2.5±0.6
AA799814						2.1±0.4	
AA799819				-2.6±0.7			

AA799889					2.0±0.2		2.4±0.4
AA800005				3.1±0.6			
AA800179							2.7±0.5
AA800190							-2.1±0.2
AA800318							3.2±0.9
AA800566							2.3±0.5
AA800602				-3.5±0.6			
AA800613			6.4±1.6		8.4±1.8	8.1±0.3	
AA800663			-2±0.3				
AA800680					4.6±1.4		
AA800787				2.9±0.9			
AA800853					3.9±0.7	2.9±0.9	
AA800908			-2.4±1.0		4.3±0.8	3.1±0.5	3.1±0.4
AA801441						2.3±0.5	2.7±0.8
AA817843						2.1±0.5	
AA818593							2.9±0.2
AA818604						2.6±0.4	
AA819338				2.1±0.1			
AA848268			-2.0±0.2		2.2±0.4		
AA849769							2.3±0.4
AA850734					2.7±0.6	2.7±0.5	2.3±0.2
AA852046							2.2±0.5
AA858621						3.9±0.7	
AA859305						2.5±0.4	2.4±1.1
AA859562						2.2±0.3	
AA859597							2.2±0.4
AA859612						-2.0±0.3	-4.0±0.7
AA859648					3.2±0.7	2.3±0.2	
AA859740		-2.9±0.4					
AA859757					2.4±0.4		
AA859830							2.2±0.3
AA859837							-2.2±0.3
AA859938						-2.4±0.3	-2.0±0.3
AA859952					3.2±1.2		2.4±0.6
AA866248				2.6±0.4			
AA866291							-2.2±0.2
AA866426							2.1±0.3
AA874848					-2±0.1		-2.2±0.3
AA874873						-2.1±0.1	
AA875032			2.8±0.2				
AA875099			2.0±0.6				
AA875126							2±0.2
AA875186					2.6±0.2		
AA875286			2.7±0.1			2.1±0.1	
AA875327					2.8±0.2		
AA875427				-2.4±0.6			-2.1±0.5
AA875438							2.1±0.2
AA875470				-2.3±0.8			
AA875633			5.1±1.3			3.1±0.5	
AA891041	12.2±1.6	6.2±1.3			14.6±2.4	5.1±1.1	
AA891132					2.0±0.4		
AA891204				-2.3±0.8			

AA891595					2.8±0.5	2.1±0.3	
AA891810					2.1±0.1	2.1±0.2	2.6±0.2
AA891824			-2.4±0.3		2.1±0.4		
AA891944			2.5±0.2			2.8±0.1	
AA892006							-2±0.2
AA892012					4.1±0.8		2.1±0.1
AA892094		-2.1±0.3					
AA892248							-2.2±0.2
AA892273		-2.2±0.4					
AA892332					-2.2±0.8		
AA892333			11.4±1.2	16.1±4.5		9±1.5	12.8±4.6
AA892378							-2.1±0.3
AA892391					2.5±0.6		
AA892500			2.2±0.7				
AA892520						2.5±0.2	2.4±0.4
AA892531				-2.1±0.6			
AA892557							2.1±0.3
AA892675					2.1±0.6		
AA892775						2.5±0.5	6±0.3
AA892797			2.1±0.6				
AA892800					5.4±1.2	5.1±1.1	
AA892801			-3.7±0.5	-4.0±1.8	4.2±1.3		2.9±0.2
AA892860					2.1±0.8		
AA892921					3.7±0.7	2.5±0.6	3.4±1.0
AA893212					2.7±0.6		2.5±1.0
AA893280				3.9±0.7			4.6±1.8
AA893289		-3±3.4					
AA893328				-2.1±0.3	4.0±0.3	2.5±1.2	
AA893607							2.2±0.1
AA893690						-2.2±0.6	
AA893946					3.2±0.4		
AA894004				3.2±0.4			2.8±0.4
AA894089							-2.1±0.3
AA894119					2.5±0.2	2.0±0.4	
AA894304						4.3±0.9	3.4±1.5
AA894312						2.5±0.2	
AA894317				-2.8±0.2			
AA900476					3.5±0.8		
AA900516					2.9±0.5		
AA900769					2.4±0.8		
AA900900						-2.5±0.6	
AA924326				-4.3±1.0			
AA924542					3.5/-0.9		
AA924772							-2.1±0.3
AA924925					2.8±0.6		
AA925762				2.5±0.9			
AA933181					3.8±0.3	3.1±0.1	2.2±0.1
AA943331					2.3±0.2	2.6±0.3	2.5±0.6
AA943784					2.9±0.5	2.8±0.5	3.3±0.8
AA943892				-5.7±1.9		-2.0±0.2	
AA944156		8.5±2.8			7.7±1.8		
AA944324							2.5±0.3

AA944422				3.2±0.6			2.4±0.3
AA944856							2.5±0.1
AA945054						-4.1±3.2	
AA945169			12.3±11.9	-2.0±6.9	14.6±5.0		
AA945867			2.6±0.2				
AA946503			4.9±0.8	15.7±5.5		6.2±0.7	15.3±5.7
AA955388				-2.2±0.9	2.2±0.3		
AA956114					2.0±0.4		
AA956930						2.0±0.6	
AA956941					-3.9±0.9	-3.3±0.8	
AA957003						2.3±0.4	
AA963674					2±0.3		
AA964379				-2.2±0.6	2.4±0.3		2.1±0.2
AA996484					2.8±0.3	2.3±0.9	
AA997614					3.4±0.2	2.7±0.4	2.3±0.6
AA998446					2.5±0.6		
AA998683			4.7±1.4	22.4±6.1	6.9±6.0	4.0±0.3	27.9±12.3
AI007824							-3.3±0.8
AI008852					-3±0.4		-3.7±0.7
AI008888				2.2±1.0			2.2±0.6
AI009801				-5.8±0.8			
AI010292							-2.4±0.3
AI011556				2.2±0.1			
AI011706						2.3±0.8	
AI012030					2.8±0.9	3.3±0.7	4.6±1.5
AI013472						-2.4±0.3	
AI013513						2.3±1.0	2.3±0.4
AI014163			2.5±0.6				
AI028975				-2.4±0.8			
AI029183			-3.5±0.5		7.8±1.6	2.7±0.4	3.6±1.1
AI043631					2.7±0.5		
AI044341				-2.8±0.4			
AI044508			-2.2±0.2			-2.4±0.3	
AI044517					2.5±0.6		
AI045030			4.8±0.1		4.9±1.4	9.8±1.0	4.6±1.6
AI058941					2.3±0.6		3.1±0.8
AI069982					-5.7±1.1		
AI070721						2±0.1	
AI070848				-3.7±1.0			
AI071299						4.0±0.4	
AI071498				-2.4±0.5			
AI073056			-2±1.0	-5.7±2.0			
AI073204					-3.1±0.6		
AI101103				-3.2±0.5			
AI101743					2.2±0.2		
AI102044						-2±0.3	-3.5±1.1
AI102505				-4±1.3			
AI102562			8.1±1.8		2.6±0.1	6.4±1.3	3.7±1.0
AI102620						2.2±0.2	
AI102868					-2.2±0.3	-2.4±1.0	
AI104012						2±0.3	
AI105076					2.5±0.2		

AI111401					2±0.2		
AI112516						2.4±0.7	
AI136891			2.2±1.0				
AI136977					2.7±0.2		3.0±0.7
AI137246					5.0±0.8	2.7±0.9	
AI137583			2.1±0.5				
AI145680							3.6±0.5
AI146018					3.4±2.0	4.0±0.8	
AI169327			10.3±1.6	12.4±3.9		10.6±0.7	13.6±5.2
AI169372					2.7±1.1		
AI169756						3.0±0.3	
AI170613				-2.0±0.3			
AI170911					2.1±0.5		
AI171734					3.3±0.5		
AI171962				2±0.1		2.3±0.1	
AI171966				6.7±1.9			3.8±0.3
AI172064							4.9±1.7
AI172162							-2.1±0.6
AI172476			6.0±0.3			3.2±0.3	
AI175900					2.1±0.4	2.3±0.2	
AI175935							2.3±0.5
AI175959			2.3±0.4		3.1±0.7	2.3±0.3	2.2±0.3
AI176456			3.6±0.1	5.0±1.4		3.4±0.2	6.2±1.2
AI176658				8.7±1.7		2.4±0.3	17.0±4.1
AI176662					8.7±0.4	3.0±0.2	
AI177004				-3.5±1.2			
AI177052					2.9±0.7	2.1±0.2	
AI177096							2.6±0.2
AI177683							2.2±0.3
AI179150							-2.4±0.7
AI179610			4.1±0.5			5.5±0.5	5.6±1.9
AI179916					2.2±0.1		
AI227887					2.2±0.5		
AI228738				-2.2±0.4	2.3±0.2		
AI229031					4.8±0.4	4.5±0.4	2.1±0.3
AI229655							3.3±1.4
AI230211		-3±0.6					
AI230354							3.7±1.6
AI230572				2.8±0.7			
AI231164					3±0.2		2.4±0.4
AI231292							-2.2±0.4
AI231354					4.1±0.6	3.8±0.4	2.7±0.4
AI231445			-2.8±0.5		3.1±0.4		
AI232096						-2.1±0.4	
AI232477				2.2±0.3			
AI234730					-3.8±1.0		
AI234939			-2.0±0.5		2.2±0.3		
AI235707			-2.0±0.7			2.5±0.2	
AI235890						2.1±0.5	
AI236597		-2.1±0.1					
AI237535						2.8±0.2	2.5±1.0
AI638949					-2±0.3		

AI638989					-2.0±0.3	-2.1±0.2	-2.1±0.1
AI639058			3.4±0.4			3±0.5	
AI639082							2.3±0.6
AI639102		-2±0.4					
AI639241				-2±0.4			
AI639257					2.6±0.4	2.3±0.1	
AI639342					2.5±0.2		
AI639387				2.8±0.1			2.1±0.2
AI639488					2.2±0.1		
H31118					-2.3±0.3		-2.9±0.3
H31418			-3.0±0.7			-3.9±0.1	
H31692			3.0±0.4		-3.8±0.1		
H31734					2.7±0.6		
H31839							2.1±0.4
H32189				-2.8±0.9			
M90514					5.0±1.2	3.3±0.7	3.2±0.9