

Category	Descriptions	Accession Number	Naïve Mean intensity ± S.D.		Axotomy Mean intensity ± S.D.	Fold change	P value		Known Regulation
G Protein Coupled Receptors	α2-adrenergic receptor	M62372		A					↑ ^(27,28)
	α2-C4 adrenergic receptor	X57659		A					↓ ⁽²⁷⁾
	Angiotensin II receptor type 1 (AT1)	M74054		A					↑ ⁽²⁹⁾
	Angiotensin II receptor type 2 (AT2)	D16840		A					↑ ⁽²⁹⁾
	Bradykinin B1 receptor	AJ132230	2174 ± 1336		1344 ± 149	-1.6	0.3945		↑ ⁽³⁰⁾
	Bradykinin B2 receptor	X80187		A					↑ ⁽³⁰⁾
	Cholecystokinin-B receptor	M99418	587 ± 145		534 ± 56	-1.1	0.6011		↑ ^(31,32)
	Galanin receptor type 1	U30290		A					↓ ^(33,34)
	Galanin receptor type 2	U94322		A					↓ ^(34,35)
	NPY receptor type 1 (NPY-Y1)	Z11504	1826 ± 394		1409 ± 124	-1.3	0.2011		↓ ^(36,37)
	μ opioid receptor (MOR)	S77863	492 ± 187		155 ± 103	-3.2	0.0686		↓ ⁽³⁸⁾
δ opioid receptor (DOR)	U00475		A					↓ ⁽³⁹⁾	
Ligand-gated Ion channel Receptors	GABA-A receptor α2 subunit	L08491	2126 ± 867		1311 ± 515	-1.6	0.2491		NC ⁽⁴⁰⁾
	GABA-A receptor γ2 subunit	L08497	2945 ± 913		2017 ± 176	-1.5	0.2176		↓ ⁽⁴¹⁾
	P2X3 receptor	X90651	9249 ± 1527		8781 ± 839	-1.1	0.6723		↓ ^(41,42)
	Vanilloid receptor 1	AF029310	2859 ± 236		1551 ± 28	-1.8	0.0098	**	↓ ⁽⁴³⁾
Receptor Tyrosine Kinases	p75 (low affinity nerve growth factor receptor)	U25650		A					↓ ⁽⁴⁴⁾
	GFRα1 (RET ligand 1)	U97142	4132 ± 755		8443 ± 581	2.0	0.0019	**	↑ ⁽⁴⁵⁾
	GFRα2 (RET ligand 2)	U97143	5666 ± 302		3264 ± 477	-1.7	0.0034	**	↓ ⁽⁴⁵⁾
	TrkA (trk precursor)	M85214	13,953 ± 2027		11,032 ± 1075	-1.3	0.1134		↓ ^(46,47)
Cytokines/Growth Factors/Neuropeptides	Brain-derived neurotrophic factor	D10938	951 ± 217		1509 ± 115	1.6	0.0286	*	↑ ^(6,48,49)
	β-type calcitonin gene-related peptide	M11596	9689 ± 291		5922 ± 785	-1.6	0.0078	**	↓ ^(6,50)
	α-type calcitonin gene-related peptide	M11597	18,580 ± 795		11,460 ± 2223	-1.6	0.0211	*	↓ ⁽⁵⁰⁾
	Cholecystokinin precursor	X01032		A					↑ ⁽⁵¹⁾
	Basic fibroblast growth factor	M22427		A					↑ ^(6,52)
	Galanin	J03624	858 ± 269		24,746 ± 1223	28.8	0.0005	***	↑ ^(6,53)
	Interleukin 1-β	M98820	512 ± 78		567 ± 81	1.1	0.4516		↑ ⁽⁵⁴⁾
	Interleukin 6	M26745		A					↑ ⁽⁵⁴⁾
	Neuropeptide Y	M15880	1648 ± 811		16,056 ± 1874	9.7	0.0019	**	↑ ^(6,53)
	Pituitary adenylate cyclase activating peptide(PACAP)	X80290	3455 ± 434		12,182 ± 290	3.5	0.0000	***	↑ ^(6,55)
	Somatostatin	M25890	12,590 ± 1303		8470 ± 652	-1.5	0.0170	*	↓ ⁽⁵⁶⁾
	Substance P (δ-preprotachykinin)	X56306	9634 ± 1789		4478 ± 882	-2.2	0.0220	*	↓ ^(50,56,57)
	Tumor necrosis factor	E02468		A					↑ ⁽⁵⁴⁾
	Islet Amyloid Polypeptide(IAPP)	X52820	431 ± 25		91 ± 60	-4.7	0.0048	**	↓ ⁽⁵⁸⁾
Pancreatitis-associated protein (Reg-2)	M98049	143 ± 194		2649 ± 39	18.5	0.0014	**	↑ ⁽⁵⁹⁾	
Ion channels	Brain sodium channel III	Y00766	1033 ± 373		1481 ± 195	1.4	0.1621		↑ ^(6,60,61)
	Voltage-dependent potassium channel protein	X12589	17,880 ± 4566		16,984 ± 4118	-1.1	0.8133		↓ ⁽⁶²⁾
	Voltage-gated sodium channel (SNS)	X92184	6061 ± 361		3209 ± 561	-1.9	0.0032	**	↓ ^(61,63,64)

	Calcium channel α -2 subunit (CCHL2A)	M86621	7267 \pm 1792		25,005 \pm 1485	3.4	0.0002	***	\uparrow ⁽⁶⁵⁾
	Voltage-gated Na channel α subunit (NaN)	AF059030	9894 \pm 349		4685 \pm 744	-2.1	0.0021	**	\downarrow ^(64,66)
Cell cytoskeleton	Cytoplasmic β -actin	V01217	57,078 \pm 3838		53,731 \pm 1322	-1.1	0.2667		\uparrow ^(6,67)
	GAP-43	L21192	15,593 \pm 726		28,364 \pm 1579	1.8	0.0014	**	\uparrow ^(6,68)
	Glial fibrillary acidic protein	AF028784	1736 \pm 34		6600 \pm 763	3.8	0.0080	**	\uparrow ⁽⁶⁹⁾
	Heavy neurofilament polypeptide (NF-H)	X13804	30,252 \pm 6345		25,354 \pm 913	-1.2	0.3123		\downarrow ^(6,70,71)
	Neurofilament protein middle (NF-M)	Z12152	67,966 \pm 6714		59,993 \pm 445	-1.1	0.1755		\downarrow ^(6,70,71)
	Light molecular-weight neurofilament (NF-L)	AF031880	92,359 \pm 16347		88,311 \pm 10462	1.0	0.7392		\downarrow ^(6,70,71)
	Peripherin	AF031878	45,476 \pm 5165		39,811 \pm 5206	-1.1	0.2519		\uparrow ^(6,70,72)
	α -tubulin	V01227	78,905 \pm 10273		69,659 \pm 4157	-1.1	0.2559		\uparrow ⁽⁶⁾
	Tubulin	AB015946	2636 \pm 314		2055 \pm 46	-1.3	0.0820		\uparrow ^(6,73,74)
	Muscle LIM protein	X81193	677 \pm 76		2676 \pm 480	4.0	0.0167	*	\uparrow ⁽⁷⁵⁾
	Small proline rich protein 1a (EST195714)	AA891911	1063 \pm 205		3856 \pm 263	3.6	0.0002	***	\uparrow ⁽⁸⁾
Transcription factors	Leucine zipper protein (ATF3)	M63282	1187 \pm 106		13,509 \pm 800	11.4	0.0012	**	\uparrow ⁽⁷⁶⁾
	c-jun	X17163	591 \pm 284		4325 \pm 459	7.3	0.0007	***	\uparrow ^(77,78,79)
	jun-D	D26307		A					\uparrow ^(77,78,79)
Cell surface/ Extracellular matrix	Epididymal glycoprotein (AEG)	M31173	175 \pm 110		1319 \pm 587	7.5	0.0728		\uparrow ⁽⁷⁵⁾
	H36- α -7 integrin α -chain	X65036	13,182 \pm 529		20,346 \pm 992	1.5	0.0015	**	\uparrow ⁽⁸⁰⁾
	140-kD NCAM	X06564		A					\uparrow ⁽⁸¹⁾
	Neural cell adhesion molecule L1	X59149	10,773 \pm 1669		13,014 \pm 1172	1.2	0.1380		NC ⁽⁸²⁾
	Neuropilin	AF016296	2810 \pm 282		2249 \pm 332	-1.2	0.0914		\uparrow ⁽⁸³⁾
	Ninjurin1	U72660	4743 \pm 499		4611 \pm 307	1.0	0.7194		\uparrow ⁽⁸⁴⁾
Enzymes	Neuronal nitric oxide synthase	U67309		A					\uparrow ^(85,86)
Cell death / Survival	Bax- α	U59184	12,481 \pm 683		12,148 \pm 831	1.0	0.6212		NC ^(6,87,88)
	Bcl-2	L14680	2186 \pm 261		2067 \pm 35	-1.1	0.5127		\downarrow ^(87,89)
	Bcl-xlong	U34963	1704 \pm 241		1645 \pm 386	1.0	0.8345		\downarrow ⁽⁸⁸⁾
	Manganese-containing superoxide dismutase(MnSoD)	Y00497	3253 \pm 1144		3607 \pm 553	1.1	0.6639		\uparrow ⁽⁶⁾
	Heat shock protein 27	M86389	19,180 \pm 2006		55,523 \pm 10563	2.9	0.0237	**	\uparrow ⁽¹⁵⁾
	Copper-zinc containing superoxide dismutase	M21060	24,631 \pm 2828		24,881 \pm 453	1.0	0.8934		NC ⁽⁶⁾
Metabolism	Cutaneous fatty acid-binding protein	S69874	32,900 \pm 5376		50,563 \pm 3593	1.5	0.0126	**	\uparrow ⁽⁹⁰⁾
	Cyclophilin	M19533	40,897 \pm 7071		38,716 \pm 5193	-1.1	0.6909		NC ⁽¹⁵⁾

Key to abbreviations, A - Gene judged absent in all arrays; NC – No change; * p<0.05, ** p<0.01, *** p<0.001.

Table 1: Comparison of microarray and known regulation data for genes whose expression pattern within the DRG following nerve injury has been studied previously.