Differential gene expression in *Bcl11a* mutant dorsal spinal cord

Affymetrix ID	Gene symbol	Genbank ID	Change *P*-value	Fold-change
Downregulated genes				
1447334_at	*Bcl11a*	BB526119	4.81E-08	–13.45414464
1419406_a_at	*Bcl11a*	NM_016707	4.73E-08	–8.116123948
1450260_at	*Grpr*	M57922	3.67E-05	–6.204484917
1457072_at	*Bcl11a*	BF731393	7.75E-08	–5.453025359
1456632_at	*Bcl11a*	BB424718	1.41E-08	–5.36405061
1446293_at	*Bcl11a*	BB471990	4.43E-05	–4.796960888
1428642_at	*Slc35d3*	AK018094	6.14E-05	–3.589984253
1422825_at	*Cart*	NM_013732	4.59E-05	–2.882588616
1457797_at	*Slc8a1*	AV340788	1.51E-05	–2.674092389
1446622_at	*A330068G13Rik*	BB191623	2.24E-05	–2.24557795
1416658_at	*Frzb*	U91905	9.01E-07	–2.239973937
1432825_at	*2900018N21Rik*	AK013552	2.44E-05	–2.239020383
1438239_at	*Mid1*	BG073178	6.4E-05	–2.153784217
1433701_at	*Mpped1*	BB371430	2.11E-05	–2.051349964
1452656_at	*Zdhhc2*	BB224658	7.02E-05	–1.96649857
1436035_at	*3830431G21Rik*	AV225683	1.06E-05	–1.962778283
1426047_a_at	*Ptprr*	AF129509	6.32E-05	–1.941226429
1460668_at	*Gal*	NM_010253	2.87E-05	–1.937069656
1455869_at	*Camk2b*	BG862223	5.72E-05	–1.913351264
1418161_at	*Jph3*	NM_020605	1.30E-05	–1.905919862
1445589_at	*Slc23a2*	BM940232	5.47E-05	–1.902432029
1434776_at	*Sema5a*	BQ176610	6.04E-05	–1.86572666
1437319_at	*D9Ertd414e*	BG069400	1.54E-05	–1.865635356
1453098_at	*Gria2*	AK014389	1.82E-05	–1.863601115
1437422_at	*Sema5a*	AV375653	7.67E-05	–1.855922895

Affymetrix ID	Gene symbol	Genbank ID	Change *P*-value	Fold-change
Upregulated genes				
1450736_a_at	*Hbb-bh1*	NM_008219	2.20E-09	35.61121791
1437990_x_at	*Hbb-bh1*	AV147727	9.03E-09	35.26825279
1437810_a_at	*Hbb-bh1*	AV311770	2.67E-07	34.62677676
1429517_at	*Zfyve20*	BC017622	3.19E-05	7.109685906
1432589_at	*Plcg1*	BF166706	2.81E-07	7.013992117
1430391_a_at	*St8sia4*	AK003690	2.91E-06	6.301004155
1420230_at	*AA414993*	AA414993	2.61E-06	6.009843385
1431196_at	*Atp2c1*	BG296252	2.40E-06	4.728163341
1449885_at	*Tmem47*	NM_138751	1.43E-07	4.722526295
1429385_at	*Wdr68*	BI082535	2.49E-06	4.272174849
1448716_at	*Hba-x*	M26898	6.16E-07	4.213009015
1452638_s_at	*Dnm1l*	BC027538	1.35E-05	4.004418365
1456255_at	*AI314180*	BB553400	1.01E-06	3.965965013
1437257_at	*Wdr47*	BB344753	1.50E-08	3.95664415
1451610_at	*ECM29l*	BC024561	6.51E-06	3.952606098
1427430_at	*AI848100*	BB148987	5.43E-05	3.894914242
1431064_at	*Dpp8*	BF119821	1.64E-05	3.802372114
1420652_at	*Ate1*	BE309332	3.60E-05	3.642381587
1448458_at	*Top2b*	BB166592	5.88E-07	3.634330961

1426505_at	*Evi2b*	AI122415	8.92E-06	3.632934073
1424570_at	*Ddx46*	BF023426	2.40E-05	3.55541412
1416660_at	*Eif3s10*	AW701127	5.64E-05	3.506743664
1423325_at	*Pnn*	AV135835	1.05E-05	3.497019017
1444199_at	*Elk4*	AW046689	3.97E-05	3.477198429
1419519_at	*Igf1*	NM_010512	2.75E-05	3.421510667
1421248_at	*Syn3*	NM_013722	2.97E-07	3.301289723
1456343_at	*Slc35f1*	BB540579	2.48E-05	3.282755202
1450087_a_at	*Nolc1*	NM_053086	7.53E-06	3.226996335
1427830_at	*Zfp260*	L36316	7.67E-05	3.226275533
1435872_at	*Pim1*	BE631223	3.29E-05	3.216496521
1442766_at	*Ppp4r1*	AI846596	1.01E-05	3.206447054
1434419_s_at	*Tardbp*	AW538183	3.15E-05	3.189801662
1444904_at	*Cbfa2t1h*	BG068236	5.63E-05	3.177284101
1428017_at	*Pknox2*	AF487460	1.35E-06	3.162853048
1447871_at	*Mtx2*	BI714072	5.88E-07	3.061908909
1450321_at	*Zfp354c*	NM_013922	1.26E-05	3.057033256
1416019_at	*Dr1*	NM_026106	1.79E-06	3.046954246
1433804_at	*Jak1*	BQ032637	4.48E-05	2.907430036
1416748_a_at	*Mre11a*	NM_018736	2.58E-06	2.888036044
1460304_a_at	*Ubtf*	BB832806	2.10E-05	2.879600247
1444536_at	*AI462171*	AI462171	1.89E-05	2.878207922
1440984_at	*Baz2b*	BE943712	5.30E-05	2.869833884
1455658_at	*Cggbp1*	BI080272	1.05E-06	2.864477895
1431338_at	*Caskin1*	AK014376	2.90E-05	2.863331895
1419425_at	*Cnr1*	NM_007726	6.34E-08	2.851835278
1443522_s_at	*Phip*	BM221262	1.14E-05	2.850630874
1418889_a_at	*Csnk1d*	NM_139059	6.42E-05	2.82555789
1453590_at	*Arl5b*	BQ032239	4.07E-05	2.810921874
1445238_at	*Ccl21b*	BB239244	1.25E-06	2.772489491
1449504_at	*Kpna1*	U20619	3.21E-05	2.768349436
1419344_at	*Tcte1*	NM_013688	3.98E-05	2.761346663
1424325_at	*Esco1*	BB308198	9.93E-05	2.746473362
1425515_at	*Pik3r1*	M60651	3.54E-05	2.69283597
1450243_a_at	*Dscr1l1*	NM_030598	2.66E-07	2.684780535
1420899_at	*Rab18*	AW542340	6.42E-05	2.67333255
1449548_at	*Efnb2*	U30244	1.81E-05	2.669096203
1420816_at	*Ywhag*	NM_018871	3.83E-05	2.649034404
1444996_at	*Depdc5*	BG067666	1.30E-06	2.629950635
1446926_at	*Pycard*	AU040917	1.05E-06	2.617144887
1431274_a_at	*Hspa9a*	AA543265	2.13E-06	2.583065882
1446682_at	*Zswim6*	BB660139	6.46E-05	2.564815322
1449949_a_at	*Cxadr*	U90715	7.14E-05	2.542242336
1459648_at	*Rutbc3*	BE627992	1.14E-05	2.498150765
1432344_a_at	*Aplp2*	AK013376	2.28E-06	2.497216168
1446484_at	*Mef2c*	BB558401	8.13E-06	2.490409664
1415773_at	*Ncl*	BF118393	1.80E-06	2.484618366
1421477_at	*Cplx2*	NM_009946	6.42E-06	2.479666949
1435009_at	*Slc9a6*	BB611738	1.11E-05	2.455488305
1423214_at	*Plxnc1*	BB476707	1.93E-05	2.387979685
1424332_at	*Rab40c*	AF422144	8.06E-05	2.358015469
1456651_a_at	*Tpr*	BG067858	4.77E-06	2.356109997
1423329_at	*Gdap1*	AU017649	1.90E-05	2.350862988
1416043_at	*Nasp*	BB493242	3.65E-05	2.335816875

1455748_at	*Gpr178*	AI662241	2.74E-05	2.333911832
1417781_at	*Lass4*	BB006809	1.30E-05	2.333638981
1420982_at	*Rnpc2*	NM_133242	2.37E-05	2.310019202
1450522_a_at	*H1f0*	NM_008197	5.74E-05	2.306425231
1454304_at	*Epn2*	BB626346	2.64E-05	2.287035859
1460131_at	*Rnf170*	BG067721	1.48E-05	2.238187031
1450392_at	*Abca1*	BB144704	2.52E-05	2.212401088
1426714_at	*D11Ertd18e*	AK003278	3.14E-06	2.190147066
1427408_a_at	*Thrap3*	BC012655	2.24E-06	2.177392372
1426715_s_at	*D11Ertd18e*	AK003278	3.59E-05	2.150738751
1421789_s_at	*Arf3*	NM_007478	9.78E-07	2.147247301
1440228_at	*Ranbp6*	BB477637	4.80E-06	2.143338627
1427638_at	*Zbtb16*	Z47205	8.42E-06	2.141114995
1425597_a_at	*Qk*	AW060288	2.42E-05	2.126582508
1442872_at	*BC021438*	BB022993	5.72E-06	2.09856836
1451730_at	*Zfp62*	BC022935	4.90E-05	2.090004098
1425713_a_at	*Rnf146*	BC019182	3.43E-05	2.089779763
1425490_a_at	*Wdr13*	AK017549	1.85E-06	2.082986698
1438686_at	*Eif4g1*	BB531220	5.31E-05	2.074047996
1454107_a_at	*Kif2a*	AK016720	2.30E-05	2.070858853
1450762_s_at	*Zfp191*	BF780333	7.83E-05	2.051713553
1450407_a_at	*Anp32a*	AF022957	6.35E-06	2.040646039
1421339_at	*Extl3*	NM_018788	4.81E-05	2.006553153
1458676_at	*Nktr*	BB712791	3.42E-05	2.00603001
1431328_at	*Ppp1cb*	AK017392	2.73E-05	2.000893152
1425631_at	*Ppp1r3c*	U89924	2.86E-05	1.99903859
1448127_at	*Rrm1*	BB758819	9.49E-05	1.993870937
1443878_at	*Rapgef6*	BB306768	2.65E-05	1.99328962
1434282_at	*Ibtk*	BM250711	4.11E-05	1.988935323
1460426_at	*Pde4dip*	AI639670	3.06E-06	1.984632664
1416701_at	*Rnd3*	BC009002	1.64E-05	1.983916553
1449578_at	*Supt16h*	AW536705	2.11E-05	1.973119101
1431030_a_at	*Rnf14*	AK010162	2.65E-05	1.970928939
1425624_at	*Epm2aip1*	BC018474	9.24E-05	1.962687538
1460386_a_at	*Slc1a1*	AF087578	2.41E-05	1.955461765
1444333_at	*Strn3*	BB485260	1.93E-05	1.955034629
1458685_at	*Garnl1*	BB552367	1.65E-05	1.953421381
1442629_at	*Nt5c2*	AU017183	6.50E-05	1.951756982
1456104_at	*Psmd11*	BE949498	6.46E-05	1.950168902
1426744_at	*Srebf2*	BM123132	2.79E-05	1.943511478
1442404_at	*Ncl*	BB624790	2.61E-05	1.943410453
1415795_at	*Spin*	BM228780	1.83E-05	1.942326357
1447924_at	*Nucks1*	AW048468	1.07E-06	1.942215708
1417755_at	*Topors*	NM_134097	7.31E-05	1.939400843
1439042_at	*Adcyap1r1*	BB427884	6.38E-05	1.937250691
1452430_s_at	*Sfrs1*	X66091	6.39E-05	1.917936232
1453853_a_at	*Arhgef12*	AI481688	2.04E-05	1.913243672
1425329_a_at	*Cyb5r3*	AF332060	4.23E-05	1.90763443
1451762_a_at	*Kif1b*	AB023656	5.13E-05	1.904250658
1416732_at	*Top2b*	BB166592	1.20E-05	1.900368892

Systematic analysis of gene expression in control and Brn4-Cre recombined *Bcl11a* mutant spinal cords using Affymetrix oligonucleotide microarrays (MOE 430 2.0 Gene Chip). Expression profiles were determined at E16.5. The average signal fold change and the change *P*-value from three replicates are shown. Genes were selected based on the following cut-offs: fold change ≥ 1.9 for upregulated genes and ≤ -1.9 for those downregulated in mutants; change *P*-value ≤ 0.0001.