

Upregulated genes in E11.5 *Shox2* mutant forelimbs:

Using microarray analysis, 210 genes with log₂ ratios of ≥ 0.3 were considered as upregulated in *Shox2* Regulation (log₂[fold]) presents mean values of log₂ ratios of 2 microarray experiments.

	Gene symbol	Probe set ID	Regulation (log ₂ [fold])
1	Eif2s3y	26908_at	4.288574219
2	Uty	22290_at	4.153320313
3	Kdm5d	20592_at	3.4765625
4	Ddx3y	26900_at	2.208129883
5	Hoxd13	15433_at	1.769775391
6	5830417110Rik	100302730_at	1.449707031
7	Hoxa13	15398_at	0.979858398
8	Hsd3b6	15497_at	0.932861328
9	Sall1	58198_at	0.904418945
10	Osr2	107587_at	0.896728516
11	Mir1195	100316676_at	0.895263672
12	Hoxa11as	15397_at	0.883789063
13	Kera	16545_at	0.877685547
14	Trav8d-1	667476_at	0.814941406
15	Cbln2	12405_at	0.801635742
16	Rps7	20115_at	0.80090332
17	Gdf5	14563_at	0.760253906
18	LOC100861784	100861784_at	0.743896484
19	Gm1943	384864_at	0.734863281
20	Gm20186	100504344_at	0.728637695
21	Cdh10	320873_at	0.716308594
22	Rspo3	72780_at	0.712158203
23	Gm20276	100504540_at	0.700439453
24	Npm1	18148_at	0.69909668
25	Igkv2-137	692187_at	0.691162109
26	Bhmt	12116_at	0.687866211
27	Klra13-ps	16631_at	0.680908203
28	Mir1186b	100499527_at	0.662719727
29	Prokr2	246313_at	0.658691406
30	Gm2863	100040606_at	0.653076172
31	Ifna5	15968_at	0.645263672
32	Gm8526	667230_at	0.633789063
33	Tox3	244579_at	0.631591797
34	Zic2	22772_at	0.630859375
35	Cd300lh	382551_at	0.630859375
36	Mir3473d	100628592_at	0.614624023
37	Vmn1r159	670857_at	0.605712891
38	Mir1945	100316833_at	0.604492188
39	Zic3	22773_at	0.598510742
40	Igkv4-58	381831_at	0.593139648
41	H2afy3	67552_at	0.582641602

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2	42	Fign	60344_at	0.578613281
3	43	Hoxd12	15432_at	0.574584961
4	44	Dach1	13134_at	0.573242188
5	45	Olfir884	257996_at	0.572753906
6	46	A530032D15Rik	381287_at	0.572265625
7	47	Mir669m-1	100316701_at	0.561889648
8	48	Cyp26b1	232174_at	0.558837891
9	49	Thsd7a	330267_at	0.55847168
10	50	Mir5129	100628598_at	0.556152344
11	51	4930572O03Rik	381715_at	0.555419922
12	52	Grin3a	242443_at	0.551757813
13	53	9030025P20Rik	100041574_at	0.54675293
14	54	Mir345	723946_at	0.546020508
15	55	Gm3727	100042217_at	0.543823242
16	56	Cyp2a22	233005_at	0.541992188
17	57	Magea2	17138_at	0.540527344
18	58	Rhox4g	664608_at	0.538818359
19	59	Tbx4	21387_at	0.536499023
20	60	Gria2	14800_at	0.532958984
21	61	Gsdmcl1	74236_at	0.520996094
22	62	Mir874	100124491_at	0.520263672
23	63	Scarna3a	100217414_at	0.520141602
24	64	Zfp949	71640_at	0.517211914
25	65	Gm15881	100271928_at	0.512207031
26	66	Fgf2	14173_at	0.508789063
27	67	Msx1	17701_at	0.505981445
28	68	Pcdh10	18526_at	0.505126953
29	69	Mir185	387180_at	0.504394531
30	70	Acta1	11459_at	0.500488281
31	71	Trbv2	100124659_at	0.499755859
32	72	A830082K12Rik	320174_at	0.496582031
33	73	NA	100861692_at	0.493164063
34	74	Pcdh9	211712_at	0.489501953
35	75	Snord8	100217445_at	0.487548828
36	76	Chrdl1	83453_at	0.485595703
37	77	Ihh	16147_at	0.48425293
38	78	Igkv4-68	384515_at	0.484130859
39	79	Tbx2	21385_at	0.482421875
40	80	Cela2a	13706_at	0.482177734
41	81	Pcdha3	192163_at	0.481201172
42	82	Mrpl21	353242_at	0.481201172
43	83	Pcdh7	54216_at	0.477539063
44	84	Mgp	17313_at	0.475708008
45	85	Il27	246779_at	0.475463867
46	86	Ppargc1a	19017_at	0.47277832
47	87	Gm5639	434795_at	0.472290039
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2	88	Epha7	13841_at	0.471191406
3	89	Mkx	210719_at	0.470947266
4	90	Gm7144	634745_at	0.470214844
5	91	Slc14a1	108052_at	0.467529297
6	92	Ighv2-2	777686_at	0.464355469
7	93	Gm3852	100042453_at	0.461425781
8	94	Fn3krp	238024_at	0.46081543
9	95	Gm19693	100503440_at	0.458740234
10	96	Mir1198	100316807_at	0.456542969
11	97	1700003F12Rik	75480_at	0.455322266
12	98	Mrpl33	66845_at	0.454833984
13	99	Lhx2	16870_at	0.454589844
14	100	Grifin	77998_at	0.453125
15	101	Rps11	27207_at	0.451660156
16	102	Hoxd11	15431_at	0.449707031
17	103	Ebf1	13591_at	0.448730469
18	104	4930527J03Rik	75164_at	0.448608398
19	105	Mrgpra2a	668727_at	0.444702148
20	106	Trim43c	666731_at	0.444580078
21	107	Gm5936	546325_at	0.442993164
22	108	Cited1	12705_at	0.442871094
23	109	Hoxd10	15430_at	0.439453125
24	110	Mir574	100124451_at	0.438720703
25	111	Prr24	66300_at	0.437744141
26	112	Gm15821	100502931_at	0.436279297
27	113	Lrba	80877_at	0.436035156
28	114	Vasn	246154_at	0.435302734
29	115	1700029P11Rik	66346_at	0.434814453
30	116	Rrp7a	74778_at	0.432373047
31	117	Mif4gd	69674_at	0.431396484
32	118	Myl1	17901_at	0.4296875
33	119	Gjb6	14623_at	0.428100586
34	120	Sfi1	78887_at	0.427124023
35	121	Gm10020	100039748_at	0.426513672
36	122	Zfp503	218820_at	0.424560547
37	123	Frem2	242022_at	0.423461914
38	124	NA	100862078_at	0.423095703
39	125	Gm13123	100861947_at	0.422851563
40	126	Mir3058	100526463_at	0.421875
41	127	Gm14744	628923_at	0.421508789
42	128	Ndufs6	407785_at	0.421142578
43	129	2010107G23Rik	69894_at	0.420288086
44	130	Ighv2-9-1	791089_at	0.419677734
45	131	Gm19971	100503930_at	0.417114258
46	132	Trav13-2	638566_at	0.416503906
47	133	Gm7589	665330_at	0.415893555
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2	134	Gm2481	100039897_at	0.415161133
3	135	Smoc1	64075_at	0.414794922
4	136	Cd302	66205_at	0.414672852
5	137	Hand2	15111_at	0.414306641
6	138	Gm15315	100041952_at	0.4140625
7	139	Gm5088	328451_at	0.412719727
8	140	Acot8	170789_at	0.411743164
9	141	Mir324	723896_at	0.411376953
10	142	Kcnd2	16508_at	0.408447266
11	143	Fau	14109_at	0.406738281
12	144	Olfir549	259105_at	0.406738281
13	145	NA	100862184_at	0.405639648
14	146	Kcnd3	56543_at	0.405151367
15	147	LOC100503002	100503002_at	0.403442383
16	148	Mir1956	100316706_at	0.401123047
17	149	Fmo1	14261_at	0.401123047
18	150	Birc3	11796_at	0.400512695
19	151	Mir344	723931_at	0.400390625
20	152	Pthlh	19227_at	0.400024414
21	153	Slc16a3	80879_at	0.399169922
22	154	Fam159a	545667_at	0.3984375
23	155	Fgfbp3	72514_at	0.3984375
24	156	Crybb2	12961_at	0.39831543
25	157	Spock3	72902_at	0.397460938
26	158	Lmo1	109594_at	0.395751953
27	159	Vpreb2	22363_at	0.39453125
28	160	Olfir1411	258483_at	0.391723633
29	161	Slc2a8	56017_at	0.39074707
30	162	Mir5109	100628584_at	0.389282227
31	163	Rhno1	72440_at	0.388183594
32	164	Phlda3	27280_at	0.388183594
33	165	Gm21190	100861755_at	0.388183594
34	166	Polr2c	20021_at	0.387817383
35	167	Pcdhgb7	93704_at	0.384277344
36	168	Mup13	100039089_at	0.384155273
37	169	Trbj2-5	100125259_at	0.382568359
38	170	Fibcd1	98970_at	0.377807617
39	171	NA	100862318_at	0.375
40	172	Hmx2	15372_at	0.374267578
41	173	Sec61g	20335_at	0.373046875
42	174	Pcdh12	53601_at	0.371582031
43	175	Blvra	109778_at	0.37109375
44	176	Cox4i2	84682_at	0.37109375
45	177	Lmx1b	16917_at	0.370117188
46	178	Rilp	280408_at	0.36706543
47	179	Cisd2	67006_at	0.364013672
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2	180	Fgf17	14171_at	0.36328125
3	181	Ndnl2	66647_at	0.362426758
4	182	Kcne3	57442_at	0.362060547
5	183	4930404N11Rik	432479_at	0.361938477
6	184	Pcnp	76302_at	0.357666016
7	185	Mir1946a	100316697_at	0.354248047
8	186	NA	100862070_at	0.354125977
9	187	Trbj1-6	100125253_at	0.352294922
10	188	Gpr31b	436440_at	0.35168457
11	189	Selenbp1	20341_at	0.350708008
12	190	Oxt	18429_at	0.349121094
13	191	Snph	241727_at	0.347290039
14	192	Gm19369	100502783_at	0.346923828
15	193	Tnfrsf13c	72049_at	0.344848633
16	194	Cdh3	12560_at	0.34375
17	195	Tnni1	21952_at	0.342041016
18	196	Ngrn	83485_at	0.339599609
19	197	2210011C24Rik	70134_at	0.339111328
20	198	Nfix	18032_at	0.336914063
21	199	Tpi1	21991_at	0.336669922
22	200	2310047M10Rik	71923_at	0.334960938
23	201	Pcdh11x	245578_at	0.328735352
24	202	Bpifb9b	433492_at	0.326049805
25	203	Hoxa11	15396_at	0.325927734
26	204	Cgn	70737_at	0.322509766
27	205	Lbp	16803_at	0.321655273
28	206	A830052D11Rik	402767_at	0.317993164
29	207	Igkv15-103	692169_at	0.315917969
30	208	Olf75-ps1	258186_at	0.314453125
31	209	1110038B12Rik	68763_at	0.313476563
32	210	Rnu11	353373_at	0.309814453
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2 -/- forelimbs compared to WT at stage E11.5.

For Peer Review