

Table S1-S1(contralateral)_TNI vs Sham

Gene_ID	log FC	log CPM	P Value	FD R	fc	Gene. name	Gene.description	Gene.type
ENSMUSG00000066553	7.18153	3.650638	1.64E-50	3.84E-46	145.163	Gm6969	predicted pseudogene 6969 [Source:MGI Symbol;Acc:MGI:3645320]	processed_pseudogene
ENSMUSG00000100801	3.96675	5.103609	5.36E-49	6.3E-45	15.63546	Gm15459	predicted gene 15459 [Source:MGI Symbol;Acc:MGI:3705702]	processed_pseudogene
ENSMUSG00000090733	-1.91487	6.736712	9.12E-29	7.14E-25	0.265197	Rps27	ribosomal protein S27 [Source:MGI Symbol;Acc:MGI:1888676]	protein_coding
ENSMUSG00000114003	3.810986	1.6732	5.95E-14	3.49E-10	14.03528	Gm9616	predicted gene 9616 [Source:MGI Symbol;Acc:MGI:3780024]	processed_pseudogene
ENSMUSG00000059058	3.812809	1.477952	1.39E-10	6.03E-07	14.05302	Tma7-ps	translational machinery associated 7 homolog (S. cerevisiae), pseudogene [Source:MGI Symbol;Acc:MGI:3705453]	processed_pseudogene
ENSMUSG00000074305	-1.65896	6.758155	1.54E-10	6.03E-07	0.316666	Peak1	pseudopodium-enriched atypical kinase 1 [Source:MGI Symbol;Acc:MGI:2442366]	protein_coding
ENSMUSG00000050900	5.536452	0.6198	3.18E-10	1.07E-06	46.41283	Gm7327	predicted gene 7327 [Source:MGI Symbol;Acc:MGI:3646274]	processed_pseudogene
ENSMUSG00000063902	1.324139	4.155754	7.44E-09	2.18E-05	2.503835	Gm7964	predicted gene 7964 [Source:MGI Symbol;Acc:MGI:3646150]	processed_pseudogene
ENSMUSG00000092837	-3.16506	1.554109	1.35E-07	0.00333	0.111486	Rpph1	ribonuclease P RNA component H1 [Source:MGI Symbol;Acc:MGI:1934664]	ribozyme
ENSMUSG00000047454	-1.52517	9.94628	1.42E-07	0.00333	0.347439	Gphn	gephyrin [Source:MGI Symbol;Acc:MGI:109602]	protein_coding
ENSMUSG00000106106	-1.49583	14.12328	2.3E-07	0.00492	0.354578	CT010467.1	18s RNA, related sequence 5	rRNA
ENSMUSG00000038518	-1.31014	8.388696	3.53E-07	0.0064	0.403283	Jarid2	jumonji, AT rich interactive domain 2 [Source:MGI Symbol;Acc:MGI:104813]	protein_coding
ENSMUSG00000030849	-1.1877	7.411401	3.55E-07	0.0064	0.439001	Fgfr2	fibroblast growth factor receptor 2 [Source:MGI Symbol;Acc:MGI:95523]	protein_coding

ENSMUS G000000 37965	- 1.4 382 2	12. 032 22	6.3 8E- 07	0.0 010 7	0.3 690 22	Zc3h7 a	zinc finger CCCH type containing 7 A [Source:MGI Symbol;Acc:MGI:2445044]	protein_c oding
ENSMUS G000000 48758	- 0.7 405 4	7.7 372 23	1.1 9E- 06	0.0 018 66	0.5 985 15	Rpl29	ribosomal protein L29 [Source:MGI Symbol;Acc:MGI:99687]	protein_c oding
ENSMUS G000000 65037	- 1.3 222 1	4.7 809 18	1.3 4E- 06	0.0 019 62	0.3 999 23	Rn7sk	RNA, 7SK, nuclear [Source:MGI Symbol;Acc:MGI:103186]	misc_RN A
ENSMUS G000001 12941	1.6 612 86	2.6 384 57	1.6 E- 06	0.0 022 04	3.1 629 84	Gm48 623	predicted gene, 48623 [Source:MGI Symbol;Acc:MGI:6098220]	lncRNA
ENSMUS G000000 20836	- 0.7 323 1	6.8 403 09	2.1 6E- 06	0.0 028 17	0.6 019 37	Coro6	coronin 6 [Source:MGI Symbol;Acc:MGI:2183448]	protein_c oding
ENSMUS G000000 86859	- 0.9 429 6	4.5 466 03	5.1 8E- 06	0.0 062 71	0.5 201 64	Snhg2 0	small nucleolar RNA host gene 20 [Source:MGI Symbol;Acc:MGI:1924222]	lncRNA
ENSMUS G000000 29843	2.3 214 86	2.0 868 64	5.3 4E- 06	0.0 062 71	4.9 984 67	Slc13a 4	solute carrier family 13 (sodium/sulfate symporters), member 4 [Source:MGI Symbol;Acc:MGI:2442367]	protein_c oding
ENSMUS G000000 75014	- 3.8 164 8	0.1 611 54	7.6 8E- 06	0.0 085 89	0.0 709 78	Gm10 800	predicted gene 10800 [Source:MGI Symbol;Acc:MGI:3641657]	protein_c oding
ENSMUS G000000 50010	- 2.6 430 5	0.6 924 87	1.5 E- 05	0.0 160 43	0.1 600 89	Shisa3	shisa family member 3 [Source:MGI Symbol;Acc:MGI:3041225]	protein_c oding
ENSMUS G000001 18642	- 0.8 559 2	5.5 531 57	1.7 5E- 05	0.0 177 63	0.5 525 14	NA	NA	NA
ENSMUS G000000 16427	- 0.6 809 6	5.8 156 66	1.8 2E- 05	0.0 177 63	0.6 237 51	Ndufa 1	NADH:ubiquinone oxidoreductase subunit A1 [Source:MGI Symbol;Acc:MGI:1929511]	protein_c oding
ENSMUS G000000 22098	- 0.6 713 7	6.4 587 24	2.5 1E- 05	0.0 235 38	0.6 279 09	Bmp1	bone morphogenetic protein 1 [Source:MGI Symbol;Acc:MGI:88176]	protein_c oding
ENSMUS G000000 97098	- 0.8 261 3	6.1 801 98	2.6 2E- 05	0.0 236 58	0.5 640 42	93301 11N0 5Rik	RIKEN cDNA 9330111N05 gene [Source:MGI Symbol;Acc:MGI:2443112]	lncRNA

ENSMUS G000000 28998	- 0.7 364 9	5.4 399 88	3.1 3E- 05	0.0 272 17	0.6 001 97	Tomm 7	translocase of outer mitochondrial membrane 7 [Source:MGI Symbol;Acc:MGI:1913419]	protein_c oding
ENSMUS G000000 37243	- 0.7 303 2	5.3 606 72	4.9 4E- 05	0.0 401 53	0.6 027 68	Zfp69 2	zinc finger protein 692 [Source:MGI Symbol;Acc:MGI:2144276]	protein_c oding
ENSMUS G000000 26837	- 0.7 500 6	5.0 992 2	4.9 9E- 05	0.0 401 53	0.5 945 8	Col5a 1	collagen, type V, alpha 1 [Source:MGI Symbol;Acc:MGI:88457]	protein_c oding
ENSMUS G000000 97767	- 0.7 961 4	7.1 912 9	5.1 3E- 05	0.0 401 53	0.5 758 89	Miat	myocardial infarction associated transcript (non-protein coding) [Source:MGI Symbol;Acc:MGI:2444886]	lncRNA
ENSMUS G000000 26185	0.6 465 64	6.5 173 28	5.3 E- 05	0.0 401 62	1.5 654 36	Igfbp5	insulin-like growth factor binding protein 5 [Source:MGI Symbol;Acc:MGI:96440]	protein_c oding
ENSMUS G000000 45104	- 4.0 188 5	2.7 274 54	5.8 7E- 05	0.0 430 84	0.0 616 89	Gm55 14	predicted gene 5514 [Source:MGI Symbol;Acc:MGI:3645435]	processe d_pseud ogene

Table S2-S1(contralateral)_TNI-EA vs TNI

Gene_ID	logF C	logC PM	PValue	FDR	fc	Gene.name	Gene.description	Gene.type
ENSMUSG0000065037	- 1.79 303	3.35 719 8	7.57 E- 09	0.00 017 6	0.28 856 5	Rn7sk	RNA, 7SK, nuclear [Source:MGI Symbol;Acc:MGI:103186]	misc_RNA
ENSMUSG0000101523	- 3.57 408	1.06 354 4	1.71 E- 08	0.00 019 9	0.08 396 4	Csnk2a3	casein kinase 2 alpha 3 [Source:MGI Symbol;Acc:MGI:3704198]	processed_pseudogene
ENSMUSG0000021702	1.91 903 9	3.02 864 2	1.25 E- 07	0.00 096 7	3.78 171 1	Thbs4	thrombospondin 4 [Source:MGI Symbol;Acc:MGI:1101779]	protein_coding
ENSMUSG0000097098	0.91 678 2	6.25 647 3	5.37 E- 07	0.00 311 7	1.88 789 9	9330111N05Rik	RIKEN cDNA 9330111N05 gene [Source:MGI Symbol;Acc:MGI:2443112]	lncRNA
ENSMUSG0000036777	1.13 550 3	5.16 477 5	6.73 E- 06	0.02 806 4	2.19 695 2	Anln	anillin, actin binding protein [Source:MGI Symbol;Acc:MGI:1920174]	protein_coding
ENSMUSG0000061808	6.44 113 6	5.71 424 5	7.25 E- 06	0.02 806 4	86.8 910 5	Ttr	transthyretin [Source:MGI Symbol;Acc:MGI:98865]	protein_coding
ENSMUSG0000036098	0.97 240 7	5.33 444 3	1.13 E- 05	0.03 734 8	1.96 211 1	Myrf	myelin regulatory factor [Source:MGI Symbol;Acc:MGI:2684944]	protein_coding
ENSMUSG0000040860	0.92 222 5	5.55 415 2	1.53 E- 05	0.04 431 5	1.89 503 5	Crocc	ciliary rootlet coiled-coil, rootletin [Source:MGI Symbol;Acc:MGI:3529431]	protein_coding

Table S3-S1(ipsilateral)_TNI vs Sham

Gene_ID	log FC	log CPM	PV alue	FD R	fc	Gene. name	Gene.description	Gene.type
ENSMUSG00000066553	7.2807	3.259417	1.28E-34	3.09E-30	155.7197	Gm6969	predicted pseudogene 6969 [Source:MGI Symbol;Acc:MGI:3645320]	processed_pseudogene
ENSMUSG00000100801	4.021609	5.06343	1.2E-30	1.46E-26	16.24145	Gm15459	predicted gene 15459 [Source:MGI Symbol;Acc:MGI:3705702]	processed_pseudogene
ENSMUSG00000030255	2.21335	6.616879	6.45E-23	5.2E-19	4.637507	Sspn	sarcospan [Source:MGI Symbol;Acc:MGI:1353511]	protein_coding
ENSMUSG00000049233	-6.49478	1.817014	4.97E-20	2.71E-16	0.011089	Apoo-ps	apolipoprotein O, pseudogene [Source:MGI Symbol;Acc:MGI:3649039]	processed_pseudogene
ENSMUSG00000036019	2.195944	9.212082	5.6E-20	2.71E-16	4.581893	Tmtc2	transmembrane and tetratricopeptide repeat containing 2 [Source:MGI Symbol;Acc:MGI:1914057]	protein_coding
ENSMUSG00000029635	1.906767	11.40228	4.85E-19	1.96E-15	3.749678	Cdk8	cyclin-dependent kinase 8 [Source:MGI Symbol;Acc:MGI:1196224]	protein_coding
ENSMUSG00000115432	2.189569	9.133827	4.01E-14	1.23E-10	4.561692	D130009118Rik	RIKEN cDNA D130009I18 gene [Source:MGI Symbol;Acc:MGI:2443663]	lncRNA
ENSMUSG00000038518	2.190855	9.086665	4.08E-14	1.23E-10	4.56576	Jarid2	jumonji, AT rich interactive domain 2 [Source:MGI Symbol;Acc:MGI:104813]	protein_coding
ENSMUSG00000035202	2.53615	11.65583	2.4E-13	6.44E-10	5.800389	Lars2	leucyl-tRNA synthetase, mitochondrial [Source:MGI Symbol;Acc:MGI:2142973]	protein_coding
ENSMUSG00000082820	5.121138	0.782273	3.96E-13	9.57E-10	34.80295	Gm13803	predicted gene 13803 [Source:MGI Symbol;Acc:MGI:3651056]	processed_pseudogene
ENSMUSG00000098973	2.574984	5.380126	2.51E-12	5.53E-09	5.958645	Mir6236	microRNA 6236 [Source:MGI Symbol;Acc:MGI:5530929]	miRNA

ENSMUS G000000 59058	3.8 19 70 2	1.9 02 21 2	2.0 7E- 11	4.1 7E- 08	14. 12 03 4	Tma7 -ps	translational machinery associated 7 homolog (S. cerevisiae), pseudogene [Source:MGI Symbol;Acc:MGI:3705453]	processed_ps eudogene
ENSMUS G000000 47454	2.3 31 90 4	10. 71 42 2	2.6 1E- 11	4.8 7E- 08	5.0 34 69 2	Gphn	gephyrin [Source:MGI Symbol;Acc:MGI:109602]	protein_codi ng
ENSMUS G000000 39145	1.9 28 83 5	9.5 29 02 6	3.3 5E- 11	5.7 9E- 08	3.8 07 47 7	Camk 1d	calcium/calmodulin-dependent protein kinase ID [Source:MGI Symbol;Acc:MGI:2442190]	protein_codi ng
ENSMUS G000001 06106	2.5 34 67 3	15. 00 02 8	1.4 8E- 10	2.3 9E- 07	5.7 94 45 3	CT01 0467. 1	18s RNA, related sequence 5	rRNA
ENSMUS G000000 37965	2.5 05 40 4	12. 80 83 6	1.1 1E- 09	1.6 8E- 06	5.6 78 08 4	Zc3h7 a	zinc finger CCCH type containing 7 A [Source:MGI Symbol;Acc:MGI:2445044]	protein_codi ng
ENSMUS G000000 79264	2.0 19 23 4	3.6 25 26 7	8.7 9E- 09	1.2 5E- 05	4.0 53 68 6	Gm11 077	predicted gene 11077 [Source:MGI Symbol;Acc:MGI:3779304]	protein_codi ng
ENSMUS G000000 50377	2.5 85 10 7	2.8 75 27 5	1.0 3E- 08	1.3 8E- 05	6.0 00 60 2	Il31ra	interleukin 31 receptor A [Source:MGI Symbol;Acc:MGI:2180511]	protein_codi ng
ENSMUS G000000 30849	1.5 69 67 8	7.9 82 66 4	1.0 7E- 07	0.0 00 13 6	2.9 68 38 4	Fgfr2	fibroblast growth factor receptor 2 [Source:MGI Symbol;Acc:MGI:95523]	protein_codi ng
ENSMUS G000001 13136	2.4 62 56 2	6.9 60 47 2	1.4 8E- 07	0.0 00 17 9	5.5 11 94 7	Gm19 951	predicted gene, 19951 [Source:MGI Symbol;Acc:MGI:5012136]	lncRNA
ENSMUS G000000 83833	5.1 45 52 2	0.3 21 43 5	1.6 4E- 07	0.0 00 18 8	35. 39 61 9	Gm13 841	predicted gene 13841 [Source:MGI Symbol;Acc:MGI:3650890]	processed_ps eudogene
ENSMUS G000000 92837	3.3 03 39 2	3.1 66 09 9	1.8 1E- 07	0.0 00 19 9	9.8 72 33 9	Rpph 1	ribonuclease P RNA component H1 [Source:MGI Symbol;Acc:MGI:1934664]	ribozyme
ENSMUS G000000 63684	2.1 79 35 6	2.2 46 64	2.5 4E- 07	0.0 00 26 7	4.5 29 51 3	Gm13 910	predicted gene 13910 [Source:MGI Symbol;Acc:MGI:3651143]	processed_ps eudogene
ENSMUS G000000 88609	2.5 30 99 1	3.2 99 74 4	8.3 5E- 07	0.0 00 84 2	5.7 79 68 7	Gm24 187	predicted gene, 24187 [Source:MGI Symbol;Acc:MGI:5453964]	miRNA

ENSMUS G000001 10924	2.2 23 94 7	2.3 53 24 9	1.6 4E- 06	0.0 01 56	4.6 71 69 7	Gm40 518	predicted gene, 40518 [Source:MGI Symbol;Acc:MGI:5623403]	lncRNA
ENSMUS G000000 02324	- 4.7 08 44	0.1 79 19 5	1.6 8E- 06	0.0 01 56	0.0 38 24 9	Rec8	REC8 meiotic recombination protein [Source:MGI Symbol;Acc:MGI:1929645]	protein_codi ng
ENSMUS G000000 65037	2.8 40 07 9	5.7 34 74 8	1.9 5E- 06	0.0 01 74 9	7.1 60 59 3	Rn7sk	RNA, 7SK, nuclear [Source:MGI Symbol;Acc:MGI:103186]	misc_RNA
ENSMUS G000000 78495	3.4 09 59 3	- 0.0 78 89	6.1 4E- 06	0.0 05 30 7	10. 62 64 9	Zfp98 4	zinc finger protein 984 [Source:MGI Symbol;Acc:MGI:3651978]	protein_codi ng
ENSMUS G000000 84890	- 4.4 75 77	3.8 61 36 2	6.9 8E- 06	0.0 05 82 8	0.0 44 94 3	A830 036E 02Rik	RIKEN cDNA A830036E02 gene [Source:MGI Symbol;Acc:MGI:3686876]	lncRNA
ENSMUS G000000 95298	- 7.0 35 27	4.2 02 38 3	9.9 1E- 06	0.0 07 99	0.0 07 62 4	Gm12 407	predicted gene 12407 [Source:MGI Symbol;Acc:MGI:3693096]	unprocessed_ pseudogene
ENSMUS G000000 74305	2.0 26 45 4	7.4 31 83 2	1.6 E- 05	0.0 12 50 5	4.0 74 02 2	Peak 1	pseudopodium-enriched atypical kinase 1 [Source:MGI Symbol;Acc:MGI:2442366]	protein_codi ng
ENSMUS G000001 11633	2.9 57 39 7	- 0.0 08 29	2.7 6E- 05	0.0 20 83 7	7.7 67 21 3	Gm39 377	predicted gene, 39377 [Source:MGI Symbol;Acc:MGI:5622262]	lncRNA
ENSMUS G000000 22126	5.6 12 70 7	0.7 28 30 2	3.9 2E- 05	0.0 28 77 4	48. 93 20 3	Acod 1	aconitate decarboxylase 1 [Source:MGI Symbol;Acc:MGI:103206]	protein_codi ng
ENSMUS G000000 72476	4.0 87 16 8	- 0.5 83 52	4.3 5E- 05	0.0 30 99 1	16. 99 65 2	Gm90 08	predicted pseudogene 9008 [Source:MGI Symbol;Acc:MGI:3644000]	protein_codi ng
ENSMUS G000001 00153	- 3.7 05 72	3.7 51 85	5.9 6E- 05	0.0 41 18 6	0.0 76 64 2	Ppp1 ccb	protein phosphatase 1 catalytic subunit gamma B [Source:MGI Symbol;Acc:MGI:3647492]	transcribed_p rocessed_pse udogene

Table S4-S1(ipsilateral)_TNI-EA vs TNI

Gene_ID	log FC	log CP M	PV alue	FDR	fc	Gene. name	Gene.description	Gene.type
ENSMUSG00000065037	-3.75932	5.616411	6.04E-69	1.45E-64	0.073847	Rn7sk	RNA, 7SK, nuclear [Source:MGI Symbol;Acc:MGI:103186]	misc_RNA
ENSMUSG00000030255	-2.52902	6.533929	4.62E-34	5.53E-30	0.173256	Sspn	sarcospan [Source:MGI Symbol;Acc:MGI:1353511]	protein_coding
ENSMUSG00000038518	-2.82287	8.9588	9.78E-30	7.82E-26	0.141329	Jarid2	jumonji, AT rich interactive domain 2 [Source:MGI Symbol;Acc:MGI:104813]	protein_coding
ENSMUSG00000092837	-3.81866	3.078153	1.27E-27	7.61E-24	0.070871	Rpph1	ribonuclease P RNA component H1 [Source:MGI Symbol;Acc:MGI:1934664]	ribozyme
ENSMUSG00000029635	-2.24873	11.30593	8.19E-26	3.93E-22	0.210409	Cdk8	cyclin-dependent kinase 8 [Source:MGI Symbol;Acc:MGI:1196224]	protein_coding
ENSMUSG00000035202	-3.09349	11.55323	1.56E-25	6.24E-22	0.117156	Lars2	leucyl-tRNA synthetase, mitochondrial [Source:MGI Symbol;Acc:MGI:2142973]	protein_coding
ENSMUSG00000036019	-2.66533	9.106721	5.25E-25	1.8E-21	0.157636	Tmtc2	transmembrane and tetratricopeptide repeat containing 2 [Source:MGI Symbol;Acc:MGI:1914057]	protein_coding
ENSMUSG00000039145	-2.25035	9.435559	6.36E-23	1.91E-19	0.210174	Camk1d	calcium/calmodulin-dependent protein kinase ID [Source:MGI Symbol;Acc:MGI:2442190]	protein_coding
ENSMUSG00000106106	-3.19569	14.88674	6.23E-21	1.66E-17	0.109145	CT010467.1	18s RNA, related sequence 5	rRNA
ENSMUSG00000047454	-2.8064	10.61214	4.19E-20	1E-16	0.142952	Gphn	gephyrin [Source:MGI Symbol;Acc:MGI:109602]	protein_coding
ENSMUSG00000113136	-3.02994	6.851186	1.18E-19	2.57E-16	0.122433	Gm19951	predicted gene, 19951 [Source:MGI Symbol;Acc:MGI:5012136]	lncRNA
ENSMUSG00000098973	-3.53358	5.237995	6.09E-19	1.22E-15	0.086355	Mir6236	microRNA 6236 [Source:MGI Symbol;Acc:MGI:5530929]	miRNA

ENSMUSG00000037965	- 3.1 186 2	12. 697 31	8.6 4E- 19	1.5 9E- 15	0.1 151 34	Zc3h7a	zinc finger CCCH type containing 7 A [Source:MGI Symbol;Acc:MGI:2445044]	protein_coding
ENSMUSG00000115432	- 2.5 692 5	9.0 394 65	4.1 5E- 18	7.1 E- 15	0.1 684 92	D130009I18Rik	RIKEN cDNA D130009I18 gene [Source:MGI Symbol;Acc:MGI:2443663]	lncRNA
ENSMUSG00000050377	- 4.1 023 9	2.6 791 88	2.0 9E- 15	3.3 3E- 12	0.0 582 18	Il31ra	interleukin 31 receptor A [Source:MGI Symbol;Acc:MGI:2180511]	protein_coding
ENSMUSG00000088609	- 3.2 874 5	3.1 621 67	4.3 7E- 15	6.5 4E- 12	0.1 024 19	Gm24187	predicted gene, 24187 [Source:MGI Symbol;Acc:MGI:5453964]	miRNA
ENSMUSG00000064317	3.4 598 65	1.5 719 3	4.0 9E- 13	5.7 7E- 10	11. 003 3	Gm10146	predicted gene 10146 [Source:MGI Symbol;Acc:MGI:3704367]	processed_pseudogene
ENSMUSG00000030849	- 1.8 058 3	7.8 930 14	1.5 1E- 11	2.0 2E- 08	0.2 860 16	Fgfr2	fibroblast growth factor receptor 2 [Source:MGI Symbol;Acc:MGI:95523]	protein_coding
ENSMUSG00000074305	- 2.4 657 6	7.3 187 96	4.1 2E- 10	5.2 E- 07	0.1 810 22	Peak1	pseudopodium-enriched atypical kinase 1 [Source:MGI Symbol;Acc:MGI:2442366]	protein_coding
ENSMUSG00000039617	4.1 905 42	0.2 214 25	2.4 9E- 08	2.9 9E- 05	18. 259 08	Gm7488	predicted gene 7488 [Source:MGI Symbol;Acc:MGI:3647006]	processed_pseudogene
ENSMUSG00000051627	- 4.3 387 9	- 0.5 864 7	7.5 1E- 07	0.0 008 57	0.0 494 19	Hist1h1e	histone cluster 1, H1e [Source:MGI Symbol;Acc:MGI:1931527]	protein_coding
ENSMUSG00000010122	- 2.6 200 2	0.4 121 76	3.9 9E- 06	0.0 043 46	0.1 626 65	Slc47a1	solute carrier family 47, member 1 [Source:MGI Symbol;Acc:MGI:1914723]	protein_coding
ENSMUSG00000053830	- 4.0 385 1	- 0.8 287 5	8.0 3E- 06	0.0 083 69	0.0 608 54	Gm9923	predicted pseudogene 9923 [Source:MGI Symbol;Acc:MGI:3704365]	processed_pseudogene
ENSMUSG00000022126	- 5.7 597 8	0.6 483	2.3 1E- 05	0.0 230 48	0.0 184 56	Acod1	aconitate decarboxylase 1 [Source:MGI Symbol;Acc:MGI:103206]	protein_coding

Table S5-ACC(contralateral)_TNI vs Sham

Gene_ID	log FC	log CPM	PV alue	FD R	fc	Gene.name	Gene.description	Gene.type
ENSMUSG00000069045	9.299755	4.22566	6.27E-61	1.49E-56	630.2389	Ddx3y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked [Source:MGI Symbol;Acc:MGI:1349406]	protein_coding
ENSMUSG00000069049	8.853749	3.776869	2.96E-54	3.53E-50	462.6407	Eif2s3y	eukaryotic translation initiation factor 2, subunit 3, structural gene Y-linked [Source:MGI Symbol;Acc:MGI:1349430]	protein_coding
ENSMUSG00000056673	7.478974	2.380032	1.08E-25	8.54E-22	178.4003	Kdm5d	lysine (K)-specific demethylase 5D [Source:MGI Symbol;Acc:MGI:99780]	protein_coding
ENSMUSG00000068457	7.132586	2.028467	9.23E-22	5.5E-18	140.3209	Uty	ubiquitously transcribed tetratricopeptide repeat gene, Y chromosome [Source:MGI Symbol;Acc:MGI:894810]	protein_coding
ENSMUSG00000049723	6.47399	1.335402	3.33E-12	1.59E-08	88.8925	Mmp12	matrix metalloproteinase 12 [Source:MGI Symbol;Acc:MGI:97005]	protein_coding
ENSMUSG00000029816	3.578076	3.40007	3.26E-10	1.29E-06	11.94286	Gpnm6	glycoprotein (transmembrane) nmb [Source:MGI Symbol;Acc:MGI:1934765]	protein_coding
ENSMUSG00000068299	2.900873	2.135084	1.59E-09	5.38E-06	7.468781	Nat8f4	N-acetyltransferase 8 (GCN5-related) family member 4 [Source:MGI Symbol;Acc:MGI:1922791]	protein_coding
ENSMUSG000000100131	2.223641	2.227628	1.81E-09	5.38E-06	4.670706	Gm28439	predicted gene 28439 [Source:MGI Symbol;Acc:MGI:5579145]	unprocessed_pseudogene
ENSMUSG000000101249	1.848765	2.813696	1.08E-08	2.86E-05	3.601916	Gm29216	predicted gene 29216 [Source:MGI Symbol;Acc:MGI:5579922]	unprocessed_pseudogene
ENSMUSG00000064367	1.3532	12.63087	1.58E-08	3.76E-05	2.55369	mt-Nd5	mitochondrially encoded NADH dehydrogenase 5 [Source:MGI Symbol;Acc:MGI:102496]	protein_coding
ENSMUSG000000100862	1.462041	3.97676	8.28E-08	0.00179	2.754979	Gm10925	predicted gene 10925 [Source:MGI Symbol;Acc:MGI:3809095]	unprocessed_pseudogene

ENSMUS G000000 32572	- 2.3 69 68	1.6 27 02 1	2.5 4E- 07	0.0 00 50 5	0.1 93 48 9	Col6 a4	collagen, type VI, alpha 4 [Source:MGI Symbol;Acc:MGI:1915803]	protein_codin g
ENSMUS G000000 64354	1.8 38 75 4	2.9 23 59 7	3.2 3E- 07	0.0 00 59 2	3.5 77 01 1	mt- Co2	mitochondrially encoded cytochrome c oxidase II [Source:MGI Symbol;Acc:MGI:102503]	protein_codin g
ENSMUS G000000 64339	1.3 83 22 8	13. 73 83 4	1.3 8E- 06	0.0 02 35	2.6 08 51 5	mt- Rnr 2	mitochondrially encoded 16S rRNA [Source:MGI Symbol;Acc:MGI:102492]	Mt_rRNA
ENSMUS G000000 64345	1.1 53 33 5	12. 62 21 8	2.2 6E- 06	0.0 03 28	2.2 24 27 5	mt- Nd2	mitochondrially encoded NADH dehydrogenase 2 [Source:MGI Symbol;Acc:MGI:102500]	protein_codin g
ENSMUS G000000 64368	1.1 17 52 6	10. 38 33 2	2.3 2E- 06	0.0 03 28	2.1 69 74 5	mt- Nd6	mitochondrially encoded NADH dehydrogenase 6 [Source:MGI Symbol;Acc:MGI:102495]	protein_codin g
ENSMUS G000001 00863	5.8 57 46 2	3.1 30 75 4	2.3 4E- 06	0.0 03 28	57. 97 91 5	Gm 126 69	predicted gene 12669 [Source:MGI Symbol;Acc:MGI:3651683]	processed_ps eudogene
ENSMUS G000000 01119	- 1.0 64 91	5.8 22 37 8	2.4 9E- 06	0.0 03 29 8	0.4 78 00 2	Col6 a1	collagen, type VI, alpha 1 [Source:MGI Symbol;Acc:MGI:88459]	protein_codin g
ENSMUS G000000 64337	1.3 59 79 5	13. 35 13 6	4E- 06	0.0 05 02 1	2.5 66 48 7	mt- Rnr 1	mitochondrially encoded 12S rRNA [Source:MGI Symbol;Acc:MGI:102493]	Mt_rRNA
ENSMUS G000000 02944	3.2 82 87 2	0.9 26 11 1	4.5 5E- 06	0.0 05 05 8	9.7 32 91 6	Cd3 6	CD36 molecule [Source:MGI Symbol;Acc:MGI:107899]	protein_codin g
ENSMUS G000000 64358	1.4 74 46 4	2.8 39 40 2	4.6 4E- 06	0.0 05 05 8	2.7 78 80 3	mt- Co3	mitochondrially encoded cytochrome c oxidase III [Source:MGI Symbol;Acc:MGI:102502]	protein_codin g
ENSMUS G000000 64357	1.4 76 58 5	2.9 12 67 5	4.6 7E- 06	0.0 05 05 8	2.7 82 89 3	mt- Atp 6	mitochondrially encoded ATP synthase 6 [Source:MGI Symbol;Acc:MGI:99927]	protein_codin g
ENSMUS G000001 01111	1.5 11 84 6	3.0 11 14 8	5.0 8E- 06	0.0 05 26	2.8 51 74 6	Gm 284 37	predicted gene 28437 [Source:MGI Symbol;Acc:MGI:5579143]	unprocessed_ pseudogene
ENSMUS G000001 10924	1.2 94 09 6	3.5 43 69	9.0 3E- 06	0.0 08 97 2	2.4 52 23 3	Gm 405 18	predicted gene, 40518 [Source:MGI Symbol;Acc:MGI:5623403]	lncRNA

ENSMUS G000000 64341	1.1 04 51 4	13. 52 00 6	1E- 05	0.0 09 55 7	2.1 50 26 4	mt- Nd1	mitochondrially encoded NADH dehydrogenase 1 [Source:MGI Symbol;Acc:MGI:101787]	protein_codin g
ENSMUS G000000 63953	- 1.9 71 2	1.9 72 34 2	1.6 8E- 05	0.0 15 38 3	0.2 55 04	Am d2	S-adenosylmethionine decarboxylase 2 [Source:MGI Symbol;Acc:MGI:1333111]	protein_codin g
ENSMUS G000000 32968	- 0.9 97 48	5.1 71 25 7	2.1 E- 05	0.0 18 48 9	0.5 00 87 3	Inha	inhibin alpha [Source:MGI Symbol;Acc:MGI:96569]	protein_codin g
ENSMUS G000000 99876	3.9 88 25 4	- 0.8 11 57	2.2 2E- 05	0.0 18 48 9	15. 87 02 6	Gm 296 50	predicted gene 29650 [Source:MGI Symbol;Acc:MGI:5580356]	lncRNA
ENSMUS G000001 00153	- 3.2 17 08	2.4 53 65 4	2.2 5E- 05	0.0 18 48 9	0.1 07 53 8	Ppp 1cc b	protein phosphatase 1 catalytic subunit gamma B [Source:MGI Symbol;Acc:MGI:3647492]	transcribed_p rocessed_pse udogene
ENSMUS G000000 26697	- 1.5 56 23	2.1 32 79	3.9 9E- 05	0.0 31 66 3	0.3 40 03 7	Myo c	myocilin [Source:MGI Symbol;Acc:MGI:1202864]	protein_codin g
ENSMUS G000001 02070	1.4 11 43 6	3.4 06 37 6	4.1 7E- 05	0.0 32 09 7	2.6 60 01 8	Gm 286 61	predicted gene 28661 [Source:MGI Symbol;Acc:MGI:5579367]	unprocessed_ pseudogene
ENSMUS G000000 64370	0.9 54 80 5	13. 61 38 7	6.4 6E- 05	0.0 48 08 3	1.9 38 31 8	mt- Cytb	mitochondrially encoded cytochrome b [Source:MGI Symbol;Acc:MGI:102501]	protein_codin g
ENSMUS G000000 43015	- 1.2 65 1	2.9 95 00 4	6.8 8E- 05	0.0 49 66	0.4 16 07 2	Ne mp2	nuclear envelope integral membrane protein 2 [Source:MGI Symbol;Acc:MGI:2444113]	protein_codin g

Table S6-ACC(contralateral)_TNI-EA vs TNI

Gene_ID	log FC	log CPM	PV alue	FD R	fc	Gene. name	Gene.description	Gene.type
ENSMUSG00000075053	3.517774	2.693337	9.71E-16	2.31E-11	11.45396	Vdac3-ps1	voltage-dependent anion channel 3, pseudogene 1 [Source:MGI Symbol;Acc:MGI:1270159]	unprocessed_pseudogene
ENSMUSG00000049723	-6.42535	1.383304	1.98E-11	1.73E-07	0.011635	Mmp12	matrix metalloproteinase 12 [Source:MGI Symbol;Acc:MGI:97005]	protein_coding
ENSMUSG00000010768	5.399219	0.934213	2.17E-11	1.73E-07	42.20139	Gm18541	predicted gene, 18541 [Source:MGI Symbol;Acc:MGI:5010726]	processed_pseudogene
ENSMUSG00000029816	-3.48896	3.431578	8.07E-10	4.8E-06	0.089067	Gpnm b	glycoprotein (transmembrane) nmb [Source:MGI Symbol;Acc:MGI:1934765]	protein_coding
ENSMUSG00000091383	-5.23533	0.328279	1.45E-09	6.91E-06	0.026547	Hist1h2a1	histone cluster 1, H2a1 [Source:MGI Symbol;Acc:MGI:3646032]	processed_pseudogene
ENSMUSG00000032572	3.041412	2.185492	3.91E-09	1.55E-05	8.232962	Col6a4	collagen, type VI, alpha 4 [Source:MGI Symbol;Acc:MGI:1915803]	protein_coding
ENSMUSG00000001119	1.566772	6.189249	1.14E-08	3.88E-05	2.962412	Col6a1	collagen, type VI, alpha 1 [Source:MGI Symbol;Acc:MGI:88459]	protein_coding
ENSMUSG00000039617	-4.25291	0.256833	2.06E-07	0.000614	0.05245	Gm7488	predicted gene 7488 [Source:MGI Symbol;Acc:MGI:3647006]	processed_pseudogene
ENSMUSG00000013342	3.546467	0.410477	2.18E-06	0.005756	11.68404	AA414992	expressed sequence AA414992 [Source:MGI Symbol;Acc:MGI:2142939]	TEC
ENSMUSG00000040860	1.117116	5.652351	2.57E-06	0.006118	2.16913	Crocc	ciliary rootlet coiled-coil, rootletin [Source:MGI Symbol;Acc:MGI:3529431]	protein_coding
ENSMUSG00000029304	-1.88285	2.7722	3.1E-06	0.006674	0.271148	Spp1	secreted phosphoprotein 1 [Source:MGI Symbol;Acc:MGI:98389]	protein_coding
ENSMUSG00000084890	6.682904	2.613593	3.62E-06	0.006674	102.7436	A830036E02 Rik	RIKEN cDNA A830036E02 gene [Source:MGI Symbol;Acc:MGI:3686876]	lncRNA
ENSMUSG00000002944	-3.68687	0.932191	3.64E-06	0.006674	0.07765	Cd36	CD36 molecule [Source:MGI Symbol;Acc:MGI:107899]	protein_coding

ENSMUS G000000 15340	- 3.6 732 7	0.2 600 2	5.2 6E- 06	0.0 089 44	0.0 783 85	Cybb	cytochrome b-245, beta polypeptide [Source:MGI Symbol;Acc:MGI:88574]	protein_coding
ENSMUS G000001 00131	- 2.1 157 3	2.2 687 35	6.2 5E- 06	0.0 099 19	0.2 307 29	Gm28 439	predicted gene 28439 [Source:MGI Symbol;Acc:MGI:5579145]	unprocessed_ps eudogene
ENSMUS G000001 12693	- 4.2 540 8	- 0.1 249 7	9.1 8E- 06	0.0 136 57	0.0 524 07	Gm55 12	predicted gene 5512 [Source:MGI Symbol;Acc:MGI:3645436]	transcribed_un processed_pseu dogene
ENSMUS G000000 64357	- 1.5 880 3	2.8 989 54	1.2 5E- 05	0.0 175 72	0.3 326 25	mt- Atp6	mitochondrially encoded ATP synthase 6 [Source:MGI Symbol;Acc:MGI:99927]	protein_coding
ENSMUS G000000 74800	- 5.2 214 1	5.1 319 34	1.4 1E- 05	0.0 186 2	0.0 268 04	Gm41 49	predicted pseudogene 4149 [Source:MGI Symbol;Acc:MGI:3782325]	processed_pseu dogene
ENSMUS G000000 64354	- 1.5 462 8	3.0 110 23	1.5 7E- 05	0.0 195 03	0.3 423 91	mt- Co2	mitochondrially encoded cytochrome c oxidase II [Source:MGI Symbol;Acc:MGI:102503]	protein_coding
ENSMUS G000001 00862	- 1.2 492	4.0 507 75	1.6 4E- 05	0.0 195 03	0.4 206 8	Gm10 925	predicted gene 10925 [Source:MGI Symbol;Acc:MGI:3809095]	unprocessed_ps eudogene
ENSMUS G000001 10126	- 4.3 048 8	- 0.4 440 6	1.8 E- 05	0.0 204 25	0.0 505 94	Gm93 47	predicted gene 9347 [Source:MGI Symbol;Acc:MGI:3648409]	processed_pseu dogene
ENSMUS G000001 02070	- 1.4 005 6	3.4 232	3.5 1E- 05	0.0 379 45	0.3 787 83	Gm28 661	predicted gene 28661 [Source:MGI Symbol;Acc:MGI:5579367]	unprocessed_ps eudogene