

Supplementary Materials

Supplementary Tables.

Table S1. Primer sequences for PCR assays.

Table S2. Distribution and dispersion analyses of brain mRNA changes associated with ischemic stroke.

Table S3. Mouse brain gene (mRNA) expression changes with ischemia no reperfusion compared to sham controls (InoR/Sham).

Table S4. Mouse brain gene (mRNA) expression changes with ischemia followed by reperfusion compared to sham controls (IR/Sham).

Table S5. Transactivation of hypoxia inducible factor 1 α (HIF1 α) target genes in InoR/Sham treated mouse brains.

Table S6. Top-ranked significantly altered pathways based on ischemia-induced gene expression changes in mouse brains (InoR/Sham).

Table S7. Top-ranked significantly altered pathways based on ischemia followed by reperfusion-induced gene expression changes in mouse brains (IR/Sham).

Table S8. Predicted brain miRNA regulatory modules associated with ischemia and reperfusion in mice.

Table S9. Predicted mRNA targets of candidate stroke miRNAs in mice.

Table S1. Primer sequences for PCR assays.		
Primers	Forward	Reverse
FBJ osteosarcoma oncogene (Fos) primer1	GGAGTGTGTTGTTC CTAG	GCACTAGATACAAT CCAGCA
FBJ osteosarcoma oncogene (Fos) primer2	TGCTGGATTGTATCT AGTGC	ATGAACATTGACGC TGAAGG
Mus musculus FBJ osteosarcoma oncogene B (Fosb)	TAATTCTGGATTTGT CGGGG	TGGAGTCAATGAAT TGTGGT
Mus musculus tumor necrosis factor (Tnf)	CAGCCGATTTGCTA TTCAT	AGACTCCTCCCAGG TATATG
Mus musculus chemokine (C-C motif) receptor-like 2 (Ccr12)	ACGGTTATCTTTATC TCGCC	GCCACTGTGTAGTT ATCCAT
Mus musculus chemokine (C-C motif) ligand 3 (Ccl3)	TGTACCATGACACT CTGC	CAACGATGAATTGG CGTG
Mus musculus interleukin 1 alpha (Il1a)	ATCAGCACCTTACA CCTAC	TAGTGTTTGTCCAC ATCCTG
Mus musculus chemokine (C-X-C motif) ligand 1 (Cxcl1)	TATTGTATGGTCAAC ACGC	TGTAACAGTCCTTT GAACG
Mus musculus Jun oncogene 24	AAGTGAAAACCTTG AAAGCG	CCTGACAGTCTGTT CTCA

Mus musculus chemokine (C-X-C motif) ligand 2 (Cxcl2)	AGAAGTCATAGCCA CTCTC	TCTTTGGTTCTTCC GTTGA
Mus musculus activating transcription factor 3 (Atf3)	GCAGAAGTGTCTAC CTTGAT	TGGGACAGAACAGC ATATTT
Mus musculus beta-actin (actb)	GCTGTATTCCCCTC CATCG	CCAGTTGGTAACAA TGCCAT
Mus musculus Chemerin (Rarres2)	GAACCATAGGACTG AGGTGA	GTGGGTGTTTGTGG AACT

Table S2. Distribution and dispersion analyses of brain mRNA changes associated with ischemic stroke.

PERMANOVA																				
Comparison	R2	Pr(>F)																		
InoR / Sham	0.24	1.00E-03																		
IR / Sham	0.22	2.00E-03																		
IR / InoR	0.15	2.10E-01																		
Betadispersions																				
Comparison	F-value	Pr(>F)																		
IR / Sham	0.48	5.10E-01																		
InoR / Sham	1.14	3.16E-01																		
IR / InoR	6.97	2.97E-02																		

Table S3. Mouse brain gene (mRNA) expression changes with ischemia no reperfusion compared to sham controls (InoR/Sham).

Comparison	Gene Symbol	Fold Change	p-value	Cp-value	Refseq
InoR/Sham	Ccl3	21.18	1.84E-09	2.65E-05	NM_011337
InoR/Sham	Lcn2	5.83	1.99E-05	2.48E-03	NM_008491
InoR/Sham	Atf3	4.55	1.35E-07	4.99E-04	NM_007498
InoR/Sham	Zfp36	4.42	2.28E-07	4.99E-04	NM_011756
InoR/Sham	Cyr61	4.36	1.47E-05	2.10E-03	NM_010516
InoR/Sham	8430408G22Rik	4.13	9.00E-06	1.73E-03	NM_145980
InoR/Sham	Cdkn1a	3.97	4.51E-05	3.30E-03	NM_007669
InoR/Sham	Hspa1a	3.88	1.38E-05	2.05E-03	NM_010479
InoR/Sham	Cxcl2	3.64	4.63E-06	1.46E-03	NM_009140

InoR/Sham	Apold1	3.60	6.10E-07	8.37E-04	NM_001109914
InoR/Sham	Ccrl2	3.55	1.30E-06	1.14E-03	NM_017466
InoR/Sham	Il1a	3.46	7.42E-06	1.59E-03	NM_010554
InoR/Sham	Adamts1	3.42	2.86E-06	1.22E-03	NM_009621
InoR/Sham	Cxcl10	3.13	8.56E-04	1.35E-02	NM_021274
InoR/Sham	Dennd3	3.01	1.77E-07	4.99E-04	NM_001081066
InoR/Sham	Hao1	2.86	3.20E-05	2.86E-03	NM_010403
InoR/Sham	Ccl2	2.80	2.63E-05	2.61E-03	NM_011333
InoR/Sham	Ccl17	2.72	2.11E-03	2.27E-02	NM_011332
InoR/Sham	Txnip	2.70	1.21E-05	1.94E-03	NM_001009935
InoR/Sham	Ctla2a	2.66	6.21E-05	3.85E-03	NM_007796
InoR/Sham	Adamts9	2.64	2.21E-06	1.14E-03	NM_175314
InoR/Sham	Gadd45g	2.61	3.30E-06	1.29E-03	NM_011817
InoR/Sham	E030010A14Rik	2.60	2.29E-05	2.48E-03	NM_183160
InoR/Sham	Tas2r135	2.59	3.85E-05	3.07E-03	NM_199159
InoR/Sham	Rnf125	2.57	2.02E-05	2.48E-03	NM_026301
InoR/Sham	Gm129	2.54	5.97E-05	3.80E-03	NM_001033302
InoR/Sham	Foxf1a	2.45	1.21E-05	1.94E-03	NM_010426
InoR/Sham	Gadd45b	2.45	1.19E-05	1.93E-03	NM_008655
InoR/Sham	Olf920	2.43	1.44E-03	1.82E-02	NM_146787
InoR/Sham	Map3k6	2.42	2.50E-05	2.55E-03	NM_016693
InoR/Sham	Trp53inp1	2.40	1.84E-05	2.39E-03	NM_021897
InoR/Sham	Tas2r143	2.40	6.31E-06	1.57E-03	NM_001001452
InoR/Sham	Gprc5a	2.39	1.13E-04	4.94E-03	NM_181444
InoR/Sham	Hspb1	2.39	7.26E-03	4.88E-02	NM_013560

InoR/Sham	Maff	2.30	2.09E-05	2.48E-03	NM_010755
InoR/Sham	Rrh	2.27	6.61E-06	1.58E-03	NM_009102
InoR/Sham	Ptgs2	2.21	1.04E-04	4.78E-03	NM_011198
InoR/Sham	Ppp1r15a	2.21	3.60E-05	3.03E-03	NM_008654
InoR/Sham	Gp49a	2.19	1.74E-03	2.02E-02	NM_008147
InoR/Sham	Tnf	2.19	1.15E-04	4.94E-03	NM_013693
InoR/Sham	Hmgb2	2.19	1.17E-05	1.93E-03	NM_008252
InoR/Sham	Tmcc3	2.17	3.35E-08	2.14E-04	NM_172051
InoR/Sham	Fosb	2.15	4.06E-06	1.41E-03	NM_008036
InoR/Sham	Cebpd	2.15	2.25E-05	2.48E-03	NM_007679
InoR/Sham	Acr	2.14	3.71E-05	3.05E-03	NM_013455
InoR/Sham	Ier3	2.12	1.90E-04	6.42E-03	NM_133662
InoR/Sham	Rel	2.11	5.87E-06	1.55E-03	NM_009044
InoR/Sham	Per1	2.10	1.55E-06	1.14E-03	NM_001159367
InoR/Sham	Edn1	2.10	3.13E-05	2.82E-03	NM_010104
InoR/Sham	Gjb2	2.09	1.84E-05	2.39E-03	NM_008125
InoR/Sham	Socs3	2.08	2.21E-05	2.48E-03	NM_007707
InoR/Sham	Emp1	2.07	2.04E-05	2.48E-03	NM_010128
InoR/Sham	Plaur	2.07	4.96E-05	3.47E-03	NM_011113
InoR/Sham	Csrnp1	2.07	7.38E-06	1.59E-03	NM_153287
InoR/Sham	Nfkbia	2.04	8.97E-05	4.50E-03	NM_010907
InoR/Sham	Thbs1	2.01	7.52E-04	1.27E-02	NM_011580
InoR/Sham	Adm	1.99	3.04E-05	2.79E-03	NM_009627
InoR/Sham	C130039O16Rik	1.97	2.61E-05	2.60E-03	NM_001163502
InoR/Sham	1700029F09Rik	1.97	4.01E-03	3.34E-02	NM_029368

InoR/Sham	Fzd4	1.97	5.70E-05	3.74E-03	NM_008055
InoR/Sham	Cldn20	1.97	1.16E-04	4.96E-03	NM_001101560
InoR/Sham	Sox4	1.96	2.32E-04	6.97E-03	NM_009238
InoR/Sham	Tcp10b	1.96	2.75E-04	7.54E-03	NM_011553
InoR/Sham	Irak3	1.95	1.38E-05	2.05E-03	NM_028679
InoR/Sham	Icam1	1.95	5.89E-06	1.55E-03	NM_010493
InoR/Sham	Flnc	1.93	1.52E-04	5.73E-03	NM_001081185
InoR/Sham	Armcx5	1.93	2.50E-03	2.51E-02	NM_001009575
InoR/Sham	Cdh5	1.93	3.45E-04	8.55E-03	NM_009868
InoR/Sham	Rnf146	1.93	2.01E-03	2.21E-02	NM_001110197
InoR/Sham	Tnfaip3	1.92	1.53E-06	1.14E-03	NM_009397
InoR/Sham	Cenpa	1.92	4.32E-04	9.40E-03	NM_007681
InoR/Sham	Mvp	1.89	4.28E-05	3.23E-03	NM_080638
InoR/Sham	Ascl2	1.87	5.93E-06	1.55E-03	NM_008554
InoR/Sham	Plat	1.87	4.06E-05	3.15E-03	NM_008872
InoR/Sham	Akap12	1.85	4.43E-06	1.46E-03	NM_031185
InoR/Sham	Sbno2	1.85	7.21E-06	1.59E-03	NM_183426
InoR/Sham	C8b	1.82	7.47E-05	4.17E-03	NM_133882
InoR/Sham	Errfi1	1.81	1.47E-05	2.10E-03	NM_133753
InoR/Sham	Jun	1.80	2.41E-05	2.49E-03	NM_010591
InoR/Sham	1700007K09Rik	1.79	2.37E-05	2.49E-03	NM_027037
InoR/Sham	Gem	1.79	6.54E-05	3.93E-03	NM_010276
InoR/Sham	Fuz	1.79	1.39E-05	2.05E-03	NM_027376
InoR/Sham	Nfkbiz	1.78	4.53E-06	1.46E-03	NM_030612
InoR/Sham	Cd14	1.78	2.10E-04	6.66E-03	NM_009841

InoR/Sham	Alpk3	1.77	3.09E-04	8.01E-03	NM_054085
InoR/Sham	Aff1	1.77	1.46E-03	1.83E-02	NM_001080798
InoR/Sham	Plek	1.76	7.22E-04	1.24E-02	NM_019549
InoR/Sham	Lrrc32	1.76	3.26E-05	2.87E-03	NM_001113379
InoR/Sham	Nptx2	1.75	3.57E-04	8.63E-03	NM_016789
InoR/Sham	Btg3	1.75	2.36E-04	7.03E-03	NM_009770
InoR/Sham	Fos	1.74	4.03E-04	9.11E-03	NM_010234
InoR/Sham	Lilrb4	1.74	5.61E-04	1.09E-02	NM_013532
InoR/Sham	Cc2d1b	1.74	3.94E-04	9.04E-03	NM_177045
InoR/Sham	Gas2l3	1.73	1.38E-05	2.05E-03	NM_001033331
InoR/Sham	Crct1	1.72	7.08E-04	1.23E-02	NM_028798
InoR/Sham	Rasd1	1.72	1.70E-03	1.99E-02	NM_009026
InoR/Sham	H2-gs10	1.71	2.76E-09	2.65E-05	NM_001143689
InoR/Sham	Iffo2	1.71	5.43E-08	2.60E-04	NM_183148
InoR/Sham	Angptl4	1.70	3.32E-03	3.00E-02	NM_020581
InoR/Sham	Cxcl1	1.70	2.70E-05	2.65E-03	NM_008176
InoR/Sham	Pim1	1.70	7.24E-04	1.24E-02	NM_008842
InoR/Sham	Cabyr	1.70	3.49E-03	3.08E-02	NM_027687
InoR/Sham	Rhoj	1.69	2.58E-03	2.55E-02	NM_023275
InoR/Sham	Birc3	1.69	6.59E-05	3.93E-03	NM_007464
InoR/Sham	Mafk	1.69	1.02E-05	1.81E-03	NM_010757
InoR/Sham	Cd86	1.68	6.04E-06	1.55E-03	NM_019388
InoR/Sham	Il4ra	1.68	1.82E-05	2.39E-03	NM_001008700
InoR/Sham	Dusp1	1.67	6.52E-05	3.93E-03	NM_013642
InoR/Sham	Wfikkn1	1.67	2.06E-04	6.61E-03	NM_001100454

InoR/Sham	Trim72	1.66	6.97E-05	4.06E-03	NM_001079932
InoR/Sham	Il1r2	1.66	2.76E-04	7.54E-03	NM_010555
InoR/Sham	Cirbp	1.64	3.67E-03	3.18E-02	NM_007705
InoR/Sham	H3f3b	1.64	9.26E-05	4.59E-03	NM_008211
InoR/Sham	Robo4	1.64	1.72E-06	1.14E-03	NM_028783
InoR/Sham	Zbtb16	1.64	1.30E-03	1.73E-02	NM_001033324
InoR/Sham	Kif23	1.64	2.33E-05	2.48E-03	NM_024245
InoR/Sham	Ifi30	1.63	2.20E-03	2.32E-02	NM_023065
InoR/Sham	Cdt1	1.63	5.29E-05	3.59E-03	NM_026014
InoR/Sham	Sfrp4	1.63	1.05E-03	1.52E-02	NM_016687
InoR/Sham	Arrdc4	1.63	7.40E-04	1.26E-02	NM_001042592
InoR/Sham	Blnk	1.63	2.94E-04	7.76E-03	NM_008528
InoR/Sham	Nedd9	1.62	1.13E-04	4.94E-03	NM_001111324
InoR/Sham	Nfil3	1.62	1.49E-04	5.67E-03	NM_017373
InoR/Sham	Nanos2	1.62	3.30E-05	2.88E-03	NM_194064
InoR/Sham	Spsb1	1.62	1.24E-03	1.68E-02	NM_029035
InoR/Sham	C030048B08Rik	1.61	4.49E-03	3.60E-02	NM_172991
InoR/Sham	Osmr	1.60	4.13E-04	9.19E-03	NM_011019
InoR/Sham	Tnfrsf10b	1.60	4.76E-04	9.95E-03	NM_020275
InoR/Sham	Stom	1.60	1.70E-04	6.06E-03	NM_013515
InoR/Sham	Usp36	1.60	1.02E-04	4.73E-03	NM_001033528
InoR/Sham	lfrd1	1.60	1.83E-04	6.29E-03	NM_013562
InoR/Sham	Dcaf10	1.59	5.06E-04	1.03E-02	NM_153167
InoR/Sham	Stc1	1.59	3.62E-04	8.69E-03	NM_009285
InoR/Sham	Cry1	1.59	3.76E-05	3.05E-03	NM_007771

InoR/Sham	Ctla2b	1.58	2.17E-03	2.31E-02	NM_007797
InoR/Sham	Abhd2	1.58	2.14E-05	2.48E-03	NM_018811
InoR/Sham	Myc	1.58	1.43E-03	1.81E-02	NM_010849
InoR/Sham	Taf5l	1.57	3.94E-04	9.04E-03	NM_133966
InoR/Sham	Ddit4	1.57	5.21E-03	3.96E-02	NM_029083
InoR/Sham	Fnip2	1.57	8.22E-05	4.37E-03	NM_001162999
InoR/Sham	Wdhd1	1.56	3.88E-05	3.07E-03	NM_172598
InoR/Sham	Gimap6	1.56	5.98E-04	1.13E-02	NM_153175
InoR/Sham	Ccn1	1.56	1.98E-05	2.48E-03	NM_019937
InoR/Sham	Tubb6	1.55	2.14E-03	2.29E-02	NM_026473
InoR/Sham	Mctp2	1.55	2.06E-04	6.61E-03	NM_001024703
InoR/Sham	Tle3	1.55	1.04E-03	1.52E-02	NM_001083927
InoR/Sham	Cxadr	1.55	1.44E-04	5.62E-03	NM_009988
InoR/Sham	Ankrd33b	1.55	1.39E-03	1.78E-02	NM_026153
InoR/Sham	Sema4c	1.55	1.21E-04	5.03E-03	NM_001126047
InoR/Sham	Pla2g4e	1.54	5.01E-04	1.02E-02	NM_177845
InoR/Sham	Dis3	1.54	2.05E-04	6.61E-03	NM_028315
InoR/Sham	Rtl1	1.54	6.04E-03	4.35E-02	NM_184109
InoR/Sham	Sik1	1.53	1.53E-06	1.14E-03	NM_010831
InoR/Sham	Tlr7	1.53	1.06E-03	1.53E-02	NM_133211
InoR/Sham	Gmeb2	1.53	3.20E-05	2.86E-03	NM_198169
InoR/Sham	Hmgb3	1.53	1.60E-04	5.89E-03	NM_008253
InoR/Sham	Mfsd10	1.53	1.17E-04	4.98E-03	NM_026660
InoR/Sham	Slc15a3	1.53	4.57E-04	9.72E-03	NM_023044
InoR/Sham	Runx1	1.52	3.72E-05	3.05E-03	NM_001111023

InoR/Sham	Galnt12	1.52	5.33E-05	3.60E-03	NM_030166
InoR/Sham	Zfp498	1.52	1.20E-04	5.03E-03	NM_001081431
InoR/Sham	Pgm1	1.52	2.97E-04	7.80E-03	NM_025700
InoR/Sham	Tinf2	1.52	2.39E-04	7.04E-03	NM_145705
InoR/Sham	Tlr2	1.52	6.11E-05	3.84E-03	NM_011905
InoR/Sham	Rsad2	1.51	3.45E-03	3.07E-02	NM_021384
InoR/Sham	Kcng3	1.51	4.09E-04	9.13E-03	NM_153512
InoR/Sham	Lox	1.50	2.87E-05	2.70E-03	NM_010728
InoR/Sham	Pigc	-1.50	1.22E-03	1.66E-02	NM_026078
InoR/Sham	Zbtb26	-1.50	5.46E-04	1.07E-02	NM_199025
InoR/Sham	Hax1	-1.50	9.73E-04	1.45E-02	NM_011826
InoR/Sham	1110032A04Rik	-1.50	1.81E-03	2.07E-02	NM_001164210
InoR/Sham	2610029I01Rik	-1.50	1.77E-03	2.04E-02	NM_029840
InoR/Sham	Dscr3	-1.50	5.88E-05	3.77E-03	NM_007834
InoR/Sham	Slc10a7	-1.50	9.59E-04	1.44E-02	NM_029736
InoR/Sham	Cdh11	-1.50	1.15E-03	1.60E-02	NM_009866
InoR/Sham	Golph3l	-1.50	3.82E-05	3.07E-03	NM_146133
InoR/Sham	Elmod2	-1.50	3.07E-05	2.79E-03	NM_178736
InoR/Sham	Hnmt	-1.51	5.85E-04	1.11E-02	NM_080462
InoR/Sham	Lix1l	-1.51	2.58E-03	2.55E-02	NM_001163170
InoR/Sham	2310004I24Rik	-1.51	1.57E-04	5.84E-03	NM_025510
InoR/Sham	lft80	-1.51	6.97E-04	1.22E-02	NM_026641
InoR/Sham	Zfp84	-1.51	7.67E-04	1.29E-02	NM_023750
InoR/Sham	5033414D02Rik	-1.51	1.83E-04	6.29E-03	NM_026362
InoR/Sham	Lig4	-1.51	2.59E-04	7.35E-03	NM_176953

InoR/Sham	Nme7	-1.51	4.66E-04	9.83E-03	NM_138314
InoR/Sham	Sult1a1	-1.52	1.10E-03	1.57E-02	NM_133670
InoR/Sham	Coq3	-1.52	6.32E-03	4.47E-02	NM_172687
InoR/Sham	Zfp111	-1.52	7.37E-05	4.15E-03	NM_019940
InoR/Sham	Zfp354b	-1.52	1.75E-04	6.15E-03	NM_013744
InoR/Sham	I7Rn6	-1.52	3.92E-04	9.02E-03	NM_026304
InoR/Sham	Rbm5	-1.52	1.80E-04	6.23E-03	NM_148930
InoR/Sham	2810408P10Rik	-1.52	1.65E-04	5.98E-03	NM_198619
InoR/Sham	Inhba	-1.52	1.15E-03	1.60E-02	NM_008380
InoR/Sham	MacroD2	-1.52	8.35E-05	4.37E-03	NM_028387
InoR/Sham	Vprbp	-1.52	1.00E-04	4.71E-03	NM_001015507
InoR/Sham	Rad1	-1.53	1.03E-04	4.75E-03	NM_011232
InoR/Sham	Prrx1	-1.53	1.08E-05	1.85E-03	NM_175686
InoR/Sham	Oxnad1	-1.53	9.13E-06	1.73E-03	NM_145460
InoR/Sham	Mtcp1	-1.53	3.61E-04	8.68E-03	NM_001039373
InoR/Sham	Stradb	-1.53	1.11E-04	4.91E-03	NM_172656
InoR/Sham	Gpr88	-1.53	2.76E-03	2.67E-02	NM_022427
InoR/Sham	Slc19a3	-1.53	1.95E-03	2.17E-02	NM_030556
InoR/Sham	Gtf2e2	-1.53	3.25E-04	8.28E-03	NM_001167922
InoR/Sham	Zfp790	-1.53	5.16E-04	1.04E-02	NM_146185
InoR/Sham	Nek1	-1.53	2.07E-03	2.25E-02	NM_175089
InoR/Sham	Kitl	-1.53	1.46E-04	5.64E-03	NM_013598
InoR/Sham	Zfp781	-1.53	2.03E-06	1.14E-03	NM_199062
InoR/Sham	Bcl2	-1.53	1.93E-06	1.14E-03	NM_009741
InoR/Sham	Acss1	-1.53	3.40E-07	6.48E-04	NM_080575

InoR/Sham	Papola	-1.53	1.51E-04	5.73E-03	NM_011112
InoR/Sham	Senp7	-1.53	1.11E-04	4.91E-03	NM_025483
InoR/Sham	Pnp2	-1.53	3.25E-05	2.87E-03	NM_001123371
InoR/Sham	Uprt	-1.53	2.78E-04	7.54E-03	NM_001081189
InoR/Sham	Sgce	-1.54	3.88E-04	8.97E-03	NM_001130190
InoR/Sham	Fn3krp	-1.54	4.35E-04	9.43E-03	NM_181420
InoR/Sham	1110057K04Rik	-1.54	2.54E-04	7.31E-03	NM_172401
InoR/Sham	Cspp1	-1.54	6.63E-03	4.61E-02	NM_026493
InoR/Sham	Tmem107	-1.54	5.64E-04	1.09E-02	NM_028336
InoR/Sham	Ankrd27	-1.54	8.05E-04	1.31E-02	NM_145633
InoR/Sham	Hibch	-1.54	2.45E-04	7.15E-03	NM_146108
InoR/Sham	Ly6c2	-1.54	2.29E-04	6.94E-03	NM_001099217
InoR/Sham	Cdk4	-1.54	2.37E-05	2.49E-03	NM_009870
InoR/Sham	Il10rb	-1.54	2.94E-04	7.76E-03	NM_008349
InoR/Sham	Zfp229	-1.54	4.18E-03	3.43E-02	NM_001164676
InoR/Sham	Tmem173	-1.54	6.09E-05	3.84E-03	NM_028261
InoR/Sham	Cdh10	-1.55	3.37E-04	8.41E-03	NM_009865
InoR/Sham	Mrpl51	-1.55	4.92E-05	3.46E-03	NM_025595
InoR/Sham	Zfp426	-1.55	4.57E-05	3.33E-03	NM_146221
InoR/Sham	A430107O13Rik	-1.55	1.96E-06	1.14E-03	NM_001081351
InoR/Sham	Pcdh18	-1.55	5.60E-06	1.55E-03	NM_130448
InoR/Sham	Ahsa2	-1.55	1.34E-04	5.32E-03	NM_172391
InoR/Sham	Ptchd1	-1.55	2.69E-04	7.48E-03	NM_001093750
InoR/Sham	Folh1	-1.55	1.32E-04	5.27E-03	NM_016770
InoR/Sham	Ugt8a	-1.55	4.32E-04	9.40E-03	NM_011674

InoR/Sham	Insig2	-1.55	2.97E-04	7.80E-03	NM_133748
InoR/Sham	Prelp	-1.55	1.09E-04	4.90E-03	NM_054077
InoR/Sham	Uba6	-1.56	1.73E-04	6.11E-03	NM_172712
InoR/Sham	Zfp583	-1.56	2.36E-04	7.03E-03	NM_001033249
InoR/Sham	Fv1	-1.56	2.92E-05	2.73E-03	NM_010244
InoR/Sham	Htr1b	-1.56	4.34E-05	3.23E-03	NM_010482
InoR/Sham	Tmem22	-1.56	1.65E-03	1.96E-02	NM_001101483
InoR/Sham	Dnajc28	-1.56	2.45E-06	1.20E-03	NM_001099738
InoR/Sham	Zfp709	-1.56	5.58E-03	4.14E-02	NM_145624
InoR/Sham	Amn1	-1.56	4.57E-04	9.72E-03	NM_001113424
InoR/Sham	Zfp563	-1.56	2.79E-03	2.68E-02	NM_001024950
InoR/Sham	Fam161b	-1.57	2.02E-04	6.55E-03	NM_172581
InoR/Sham	Ccdc28a	-1.57	6.80E-04	1.21E-02	NM_144820
InoR/Sham	Ncbp2	-1.57	4.65E-03	3.69E-02	NM_026554
InoR/Sham	Eri2	-1.57	1.10E-03	1.57E-02	NM_027698
InoR/Sham	Zfp882	-1.57	2.49E-03	2.51E-02	NM_001166645
InoR/Sham	Polk	-1.57	7.38E-04	1.26E-02	NM_012048
InoR/Sham	6720457D02Rik	-1.57	1.26E-03	1.70E-02	NM_175252
InoR/Sham	Ddit4l	-1.57	3.56E-04	8.63E-03	NM_030143
InoR/Sham	Pigh	-1.57	1.00E-04	4.71E-03	NM_029988
InoR/Sham	Tmem119	-1.58	6.12E-05	3.84E-03	NM_146162
InoR/Sham	Zfp809	-1.58	2.57E-05	2.60E-03	NM_172763
InoR/Sham	Cog6	-1.58	9.98E-06	1.81E-03	NM_026225
InoR/Sham	Slitrk6	-1.58	1.70E-03	1.99E-02	NM_175499
InoR/Sham	Pot1b	-1.58	5.69E-04	1.09E-02	NM_028370

InoR/Sham	Zfp846	-1.58	1.63E-04	5.98E-03	NM_172919
InoR/Sham	0610007P08Rik	-1.59	1.53E-03	1.88E-02	NM_001013608
InoR/Sham	Gm10035	-1.59	6.89E-06	1.59E-03	NM_001081471
InoR/Sham	Zfp329	-1.59	1.09E-04	4.90E-03	NM_026046
InoR/Sham	Gm4787	-1.59	1.47E-03	1.83E-02	NM_001038995
InoR/Sham	BC049349	-1.59	2.72E-03	2.65E-02	NM_001164581
InoR/Sham	Stxbp4	-1.59	3.69E-04	8.76E-03	NM_011505
InoR/Sham	Hcrtr2	-1.59	4.62E-04	9.78E-03	NM_198962
InoR/Sham	0610009B22Rik	-1.59	2.97E-05	2.76E-03	NM_025319
InoR/Sham	Slc38a5	-1.59	2.09E-04	6.64E-03	NM_172479
InoR/Sham	Zfp51	-1.60	1.30E-04	5.23E-03	NM_009558
InoR/Sham	Tax1bp3	-1.60	6.11E-07	8.37E-04	NM_029564
InoR/Sham	Nudt5	-1.60	1.36E-04	5.35E-03	NM_016918
InoR/Sham	N6amt2	-1.60	7.17E-04	1.24E-02	NM_026526
InoR/Sham	C330019L16Rik	-1.61	2.53E-03	2.52E-02	NM_001034857
InoR/Sham	Rasgrp3	-1.61	7.74E-04	1.29E-02	NM_207246
InoR/Sham	Fmo1	-1.61	1.52E-05	2.16E-03	NM_010231
InoR/Sham	Opn3	-1.61	3.97E-05	3.12E-03	NM_010098
InoR/Sham	Mis12	-1.61	4.61E-05	3.33E-03	NM_025993
InoR/Sham	Tubd1	-1.61	7.06E-05	4.07E-03	NM_019756
InoR/Sham	Fam18b	-1.61	1.97E-03	2.18E-02	NM_026210
InoR/Sham	Slc7a11	-1.61	1.56E-03	1.90E-02	NM_011990
InoR/Sham	Tek	-1.62	2.48E-03	2.50E-02	NM_013690
InoR/Sham	Zfp873	-1.62	5.40E-04	1.06E-02	NM_001024626
InoR/Sham	Ppil6	-1.62	2.29E-04	6.94E-03	NM_028430

InoR/Sham	Rbbp9	-1.62	6.38E-05	3.92E-03	NM_015754
InoR/Sham	Akr1e1	-1.62	8.34E-05	4.37E-03	NM_018859
InoR/Sham	Serpib9	-1.62	2.90E-04	7.71E-03	NM_009256
InoR/Sham	Kbtbd8	-1.62	6.15E-06	1.55E-03	NM_001008785
InoR/Sham	4930430F08Rik	-1.62	3.53E-04	8.63E-03	NM_175128
InoR/Sham	Ubxn2b	-1.63	4.32E-04	9.40E-03	NM_026534
InoR/Sham	Serpib8	-1.63	9.45E-05	4.59E-03	NM_011459
InoR/Sham	Slitrk2	-1.63	1.74E-04	6.15E-03	NM_001161431
InoR/Sham	Lipa	-1.63	2.49E-06	1.20E-03	NM_021460
InoR/Sham	Dus4l	-1.63	2.20E-04	6.79E-03	NM_028002
InoR/Sham	Calcl	-1.63	3.61E-04	8.68E-03	NM_018782
InoR/Sham	Serpib6b	-1.63	2.97E-05	2.76E-03	NM_011454
InoR/Sham	Ly6c1	-1.63	2.65E-04	7.45E-03	NM_010741
InoR/Sham	Slc38a9	-1.64	7.23E-05	4.12E-03	NM_178746
InoR/Sham	Ttc21b	-1.64	4.05E-04	9.11E-03	NM_001047604
InoR/Sham	Zfp160	-1.64	1.58E-03	1.92E-02	NM_145483
InoR/Sham	Zfp420	-1.64	8.43E-05	4.37E-03	NM_172740
InoR/Sham	Rpgrip1l	-1.65	8.30E-05	4.37E-03	NM_173431
InoR/Sham	Trib2	-1.65	1.15E-05	1.91E-03	NM_144551
InoR/Sham	Zswim3	-1.65	7.06E-06	1.59E-03	NM_178375
InoR/Sham	Zfp87	-1.65	2.99E-04	7.83E-03	NM_133228
InoR/Sham	Anxa3	-1.65	1.06E-04	4.84E-03	NM_013470
InoR/Sham	Mitd1	-1.65	8.46E-04	1.35E-02	NM_026913
InoR/Sham	1700034H14Rik	-1.66	7.09E-04	1.23E-02	NM_025969
InoR/Sham	Ankrd26	-1.66	2.05E-04	6.61E-03	NM_001081112

InoR/Sham	Tmem177	-1.66	1.33E-04	5.30E-03	NM_175106
InoR/Sham	Srek1ip1	-1.66	4.41E-05	3.25E-03	NM_026075
InoR/Sham	Wdr92	-1.66	3.88E-04	8.97E-03	NM_178909
InoR/Sham	Fa2h	-1.66	4.11E-05	3.17E-03	NM_178086
InoR/Sham	Mettl4	-1.67	1.76E-04	6.16E-03	NM_176917
InoR/Sham	Zfp874b	-1.67	1.24E-04	5.10E-03	NM_001076791
InoR/Sham	Clec2d	-1.67	4.06E-04	9.11E-03	NM_053109
InoR/Sham	2310001H12Rik	-1.67	1.13E-04	4.94E-03	NM_001024731
InoR/Sham	Erbp3	-1.68	4.04E-05	3.15E-03	NM_010153
InoR/Sham	Armc2	-1.68	7.17E-03	4.86E-02	NM_001034858
InoR/Sham	Rpp38	-1.68	3.55E-04	8.63E-03	NM_001013376
InoR/Sham	Ndp	-1.68	1.21E-04	5.03E-03	NM_010883
InoR/Sham	5830433M19Rik	-1.70	1.16E-04	4.95E-03	NM_026368
InoR/Sham	Abca9	-1.70	5.62E-05	3.72E-03	NM_147220
InoR/Sham	Mettl3	-1.70	1.13E-03	1.59E-02	NM_019721
InoR/Sham	Nmbr	-1.71	3.56E-03	3.11E-02	NM_008703
InoR/Sham	Otub2	-1.71	1.67E-04	6.01E-03	NM_001177841
InoR/Sham	Kbtbd3	-1.71	9.32E-05	4.59E-03	NM_026962
InoR/Sham	D14Abb1e	-1.71	2.79E-04	7.54E-03	NM_001114879
InoR/Sham	Ints6	-1.71	2.59E-04	7.35E-03	NM_008715
InoR/Sham	Slco1c1	-1.72	6.42E-05	3.92E-03	NM_021471
InoR/Sham	Gpr52	-1.73	2.12E-04	6.68E-03	NM_001146330
InoR/Sham	Slc39a2	-1.73	2.29E-05	2.48E-03	NM_001039676
InoR/Sham	Homer2	-1.73	2.23E-03	2.34E-02	NM_011983
InoR/Sham	Tm6sf2	-1.73	2.39E-04	7.04E-03	NM_181540

InoR/Sham	Zfp58	-1.74	2.69E-04	7.48E-03	NM_001007575
InoR/Sham	Dcun1d2	-1.74	3.16E-04	8.11E-03	NM_001024504
InoR/Sham	4933433P14Rik	-1.75	2.32E-05	2.48E-03	NM_178613
InoR/Sham	Chordc1	-1.75	2.80E-04	7.54E-03	NM_025844
InoR/Sham	Anpep	-1.76	6.70E-06	1.59E-03	NM_008486
InoR/Sham	Usp31	-1.76	1.89E-03	2.12E-02	NM_001033173
InoR/Sham	Gpr6	-1.77	1.01E-04	4.71E-03	NM_199058
InoR/Sham	Ranbp3l	-1.77	4.62E-06	1.46E-03	NM_198024
InoR/Sham	Zfp40	-1.77	4.78E-03	3.74E-02	NM_009555
InoR/Sham	Pot1a	-1.78	1.07E-03	1.54E-02	NM_133931
InoR/Sham	Rxrg	-1.78	5.97E-04	1.13E-02	NM_009107
InoR/Sham	Cml5	-1.79	6.59E-05	3.93E-03	NM_023493
InoR/Sham	Zfp71-rs1	-1.80	8.65E-05	4.40E-03	NM_145622
InoR/Sham	Vmn2r86	-1.80	3.71E-04	8.76E-03	NM_001103365
InoR/Sham	Cx3cr1	-1.80	2.70E-06	1.20E-03	NM_009987
InoR/Sham	Zfp60	-1.80	1.30E-04	5.22E-03	NM_009560
InoR/Sham	Zfp113	-1.81	2.14E-06	1.14E-03	NM_019747
InoR/Sham	Dguok	-1.82	1.21E-04	5.03E-03	NM_013764
InoR/Sham	2810021G02Rik	-1.84	8.54E-04	1.35E-02	NM_001162922
InoR/Sham	Rsl1	-1.85	2.24E-05	2.48E-03	NM_001013769
InoR/Sham	Gm4979	-1.86	1.06E-05	1.83E-03	NM_001142411
InoR/Sham	Zfp760	-1.87	3.51E-06	1.34E-03	NM_001008501
InoR/Sham	Zfp595	-1.88	6.15E-05	3.84E-03	NM_177622
InoR/Sham	Obfc2a	-1.88	1.77E-03	2.04E-02	NM_028696
InoR/Sham	Lekr1	-1.88	3.43E-04	8.54E-03	NM_001037923

InoR/Sham	P2ry13	-1.89	2.82E-05	2.69E-03	NM_028808
InoR/Sham	E2f6	-1.89	1.32E-05	2.03E-03	NM_033270
InoR/Sham	Bet1	-1.90	5.03E-04	1.02E-02	NM_009748
InoR/Sham	Zfp418	-1.94	8.65E-07	1.10E-03	NM_146179
InoR/Sham	BC018101	-1.95	5.67E-06	1.55E-03	NM_001005358
InoR/Sham	Zfp825	-1.96	9.86E-04	1.47E-02	NM_146231
InoR/Sham	Pou3f4	-1.96	1.02E-06	1.10E-03	NM_008901
InoR/Sham	Ly6a	-1.97	6.87E-05	4.06E-03	NM_010738
InoR/Sham	Mettl7a1	-1.97	6.13E-05	3.84E-03	NM_027334
InoR/Sham	Zfp455	-1.97	1.31E-05	2.03E-03	NM_001048204
InoR/Sham	3110052M02Rik	-1.99	6.43E-04	1.17E-02	NM_001166497
InoR/Sham	Mkks	-1.99	6.48E-05	3.93E-03	NM_021527
InoR/Sham	Gnpda2	-2.00	3.96E-06	1.41E-03	NM_001038015
InoR/Sham	Dapl1	-2.00	5.19E-04	1.04E-02	NM_029723
InoR/Sham	Chac2	-2.03	9.98E-04	1.48E-02	NM_026527
InoR/Sham	1190005F20Rik	-2.03	2.16E-05	2.48E-03	NM_026876
InoR/Sham	Tfb1m	-2.05	7.24E-05	4.12E-03	NM_146074
InoR/Sham	Egr2	-2.06	3.44E-04	8.54E-03	NM_010118
InoR/Sham	Slco1a4	-2.10	6.87E-04	1.22E-02	NM_030687
InoR/Sham	Hpgd	-2.11	2.69E-04	7.48E-03	NM_008278
InoR/Sham	Senp8	-2.13	8.41E-05	4.37E-03	NM_001172068
InoR/Sham	Spry3	-2.17	4.15E-05	3.19E-03	NM_001030293
InoR/Sham	Nfe2l2	-2.17	2.66E-06	1.20E-03	NM_010902
InoR/Sham	Zfp719	-2.21	2.33E-05	2.48E-03	NM_172482
InoR/Sham	Zfp759	-2.23	1.49E-04	5.67E-03	NM_172392

InoR/Sham	Mrpl36	-2.24	2.03E-05	2.48E-03	NM_053163
InoR/Sham	Tmem126b	-2.27	2.26E-04	6.86E-03	NM_026734
InoR/Sham	Ptpn2	-2.27	4.68E-05	3.37E-03	NM_001127177
InoR/Sham	Kctd21	-2.27	3.69E-05	3.05E-03	NM_001039039
InoR/Sham	Arc	-2.41	2.25E-05	2.48E-03	NM_018790
InoR/Sham	Zfp72	-2.50	1.44E-04	5.61E-03	NM_001081680
InoR/Sham	Gpr17	-2.56	3.58E-06	1.35E-03	NM_001025381
InoR/Sham	Thap2	-2.60	3.76E-05	3.05E-03	NM_025780

Table S5. Transactivation of hypoxia inducible factor 1 α (HIF1 α) target genes in InoR/Sham treated mouse brains.

InoR/Sham Genes	Target	Function
Adamts1	ADAM-TS1	Metalloprotease
Adm	Adrenomedullin	Receptor ligand
Akap12	AKAP12	Generic binding protein
Angptl4	PGAR	Generic binding protein
Ascl2	ASH2	Transcription factor
Atf3	ATF-3	Transcription factor
Birc3	c-IAP2	Generic binding protein
Ccl2	CCL2	Receptor ligand
Cdh5	VE-cadherin	Generic binding protein
Cdkn1a	p21	Generic binding protein
Cxcl2	GRO-3	Receptor ligand
Cxcl1	GRO-2	Receptor ligand
Cyr61	Cyr61	Receptor ligand
Ddit4	REDD1	Protein
Edn1	Endothelin-1	Receptor ligand
Errfi1	MIG6	Generic binding protein
Gadd45b	GADD45 beta	Generic binding protein
Icam1	ICAM1	Generic receptor

Jun	c-Jun	Transcription factor
Lox	Lysyl oxidase	Generic enzyme
Nedd9	CAS-L	Generic binding protein
Pim1	LONP	Generic protease
Plaur	PLAUR (uPAR)	Generic receptor
Ptgs2	COX-2 (PTGS2)	Generic enzyme
Rel	c-Rel (NF-kB subunit)	Transcription factor
Socs3	SOCS3	Generic binding protein
Stc1	Stanniocalcin 1	Generic binding protein
Thbs1	Thrombospondin 1	Receptor ligand
Tlr2	TLR2	Generic receptor
Tnf	TNF-alpha	Receptor ligand

Table S6. Top-ranked significantly altered pathways based on ischemia-induced gene expression changes in mouse brains (InoR/Sham).						
#	Maps	Active Genes	Total in Pathway	p-value	FDR	Network Objects from Active Data
1	IL-1 signaling in melanoma	11	42	9.4776 1E-12	9.32597 E-09	p21, GRO-3, AP-1, COX-2 (PTGS2), IL-1 alpha, ICAM1, GRO-2, CCL2, I-kB, c-Jun, c-Jun/c-Fos
2	Inflammatory mechanisms of pancreatic cancerogenesis	12	67	1.3083 E-10	6.43682 E-08	AP-1, COX-2 (PTGS2), IL-1 alpha, ICAM1, C/EBP, CCL2, NFKBIA, Bcl-2, c-Jun, c-Jun/c-Fos, c-Fos, TNF-alpha
3	The innate immune response to contact allergens	9	33	5.2406 E-10	1.71892 E-07	AP-1, IL-1 alpha, TXNIP (VDUP1), CCL2, HSP70, TLR2, NRF2, CD14, TNF-alpha
4	Immune response_IL-10 signaling pathway	11	62	8.8219 2E-10	2.07797 E-07	COX-2 (PTGS2), IL-1 alpha, ICAM1, CD86, IL10RB, IKBZ,

						SOCS3, Bcl-2, CD14, HPGD, TNF-alpha
5	Immune response_IL-18 signaling	11	63	1.0558 8E-09	2.07797 E-07	AP-1, COX-2 (PTGS2), IL-1 alpha, ICAM1, CCL2, I-kB, Bcl-2, c-Jun, c-Jun/c-Fos, c-Fos, TNF-alpha
6	TNF-alpha-induced inflammatory signaling in normal and asthmatic airway epithelium	9	38	2.0850 6E-09	3.41949 E-07	ICAM1, CCL2, NFKBIA, CCL17, I-kB, c-Jun, IP10, c-Fos, TNF-alpha
7	Immune response_HSP60 and HSP70/ TLR signaling pathway	10	54	3.4075 2E-09	4.78999 E-07	AP-1, ICAM1, HSP70, CD86, I-kB, TLR2, c-Jun, CD14, c-Jun/c-Fos, TNF-alpha
8	Immune response_IL-6 signaling pathway via JAK/STAT	11	72	4.6446 E-09	5.41036 E-07	p21, AP-1, COX-2 (PTGS2), CDK4, ICAM1, CCL2, SOCS3, c-Jun, c-Jun/c-Fos, c-Fos, C/EBPdelta
9	Immune response_IL-5 signaling via JAK/STAT	10	56	4.9485 E-09	5.41036 E-07	SOX4, Pim-1, NFKBIA, E4BP4, Bcl-2, c-Jun, MKP-1, c-IAP2, c-Myc, c-Fos
10	Immune response_Substance P-stimulated expression of proinflammatory cytokines via MAPKs	9	43	6.7898 5E-09	6.68121 E-07	GRO-3, CCL3L1, COX-2 (PTGS2), GRO-2, CCL2, I-kB, c-Jun, CCL13, TNF-alpha
11	Macrophage and dendritic cell phenotype shift in cancer	12	100	1.5328 7E-08	1.37122 E-06	COX-2 (PTGS2), Activin A, c-Rel (NF-kB subunit), TLR7, CD86, Thrombospondin 1, SOCS3, I-kB, ILT3, TLR2, IP10, TNF-alpha
12	Immune response_IL-1 signaling pathway	11	82	1.9053 5E-08	1.52809 E-06	HSP27, AP-1, COX-2 (PTGS2), IL-1 alpha, ZFP36(Tristetraprolin), ICAM1, CCL2, I-kB, c-IAP2, IP10, TNF-alpha
13	Immune response_MIF-mediated glucocorticoid regulation	7	23	2.0188 1E-08	1.52809 E-06	COX-2 (PTGS2), ICAM1, NFKBIA, I-kB, c-Jun, c-Fos, TNF-alpha
14	Interleukins-induced inflammatory response in asthmatic airway fibroblasts	8	35	2.2960 4E-08	1.61379 E-06	COX-2 (PTGS2), IL-1 alpha, ICAM1, GRO-2,

						MGF, CCL2, c-Jun, c-Fos
15	Immune response_IL-22 signaling pathway	8	36	2.91681E-08	1.91343E-06	CD86, IL10RB, SOCS3, Bcl-2, c-Jun, c-Jun/c-Fos, c-Myc, c-Fos
16	Cooperative action of IFN-gamma and TNF-alpha on astrocytes in multiple sclerosis	8	37	3.67702E-08	2.26136E-06	ICAM1, CCL2, CD86, NFKBIA, I-kB, IP10, TNF-alpha, C/EBPdelta
17	Immune response_CCL2 signaling	9	54	5.60585E-08	3.2448E-06	AP-1, IL-1 alpha, ICAM1, CCL2, VE-cadherin, c-Jun, c-Jun/c-Fos, c-Fos, TNF-alpha
18	Role of IFN-beta in the improvement of blood-brain barrier integrity in multiple sclerosis	7	27	6.97281E-08	3.81181E-06	AP-1, ICAM1, c-Jun, c-Jun/c-Fos, c-Fos, TNF-alpha, sICAM1
19	Immune response_IL-17 signaling pathways	9	60	1.44938E-07	7.50629E-06	COX-2 (PTGS2), ICAM1, CCL2, I-kB, c-Jun, c-Jun/c-Fos, NGAL, c-Fos, C/EBPdelta
20	Role of TLR signaling in skin sensitization	8	44	1.55189E-07	7.63529E-06	HSP27, AP-1, HSP70, CD86, I-kB, TLR2, CD14, TNF-alpha
21	Immune response_TNF-R2 signaling pathways	8	45	1.86491E-07	8.73845E-06	AP-1, I-kB, Bcl-2, c-Jun, c-IAP1, c-IAP2, c-Jun/c-Fos, TNF-alpha
22	Immune response_IL-4-induced regulators of cell growth, survival, differentiation and metabolism	9	63	2.23788E-07	1.00094E-05	p21, AP-1, CDK4, PGAR, SOCS3, Bcl-2, EGR2 (Krox20), IL4RA, c-Myc
23	TNF-alpha and IL-1 beta-mediated regulation of contraction and secretion of inflammatory factors in normal and asthmatic airway smooth muscle	9	65	2.95046E-07	1.26228E-05	GRO-3, COX-2 (PTGS2), GRO-2, CCL2, NFKBIA, c-Jun, Histone H3, c-Fos, TNF-alpha
24	Chemokines in inflammation in adipose tissue and liver in obesity, type 2 diabetes and metabolic syndrome X	8	48	3.14929E-07	1.29121E-05	ICAM1, CX3CR1, CCL2, CD86, PLAUR (uPAR), TLR2, CD14, TNF-alpha
25	Th2 cytokine- and TNF-alpha-induced inflammatory response in asthmatic airway fibroblasts	7	35	4.80098E-07	1.88967E-05	COX-2 (PTGS2), ICAM1, CCL2, c-Jun, IL4RA, c-Fos, TNF-alpha

26	Immune response_HMGB1/RAGE signaling pathway	8	53	6.96645E-07	2.63653E-05	IL-1 alpha, ICAM1, NFKBIA, PLAT (TPA), I-kB, TLR2, c-Jun, TNF-alpha
27	Transcription_HIF-1 targets	10	95	8.74978E-07	3.18881E-05	p21, Endothelin-1, CX3CR1, Adrenomedullin, MGF, REDD1, Thrombospondin 1, PLAUR (uPAR), Lysyl oxidase, c-Myc
28	EGFR family signaling in pancreatic cancer	9	75	1.0274E-06	3.61057E-05	p21, COX-2 (PTGS2), CDK4, I-kB, Bcl-2, c-Jun, c-Myc, c-Fos, ErbB3
29	IL-1 beta- and Endothelin-1-induced fibroblast/myofibroblast migration and extracellular matrix production in asthmatic airways	7	40	1.25429E-06	4.25595E-05	AP-1, IL-1 alpha, Endothelin-1, CCL2, Thrombospondin 1, c-Jun, c-Jun/c-Fos
30	Glucocorticoid- and LABA-mediated inhibition of pro-inflammatory signaling in airway fibroblasts/myofibroblasts	6	28	2.12729E-06	6.9775E-05	AP-1, IL-1 alpha, ICAM1, c-Jun, c-Jun/c-Fos, TNF-alpha
31	Cigarette smoke-mediated attenuation of antibacterial and antiviral immune response	6	29	2.65101E-06	8.41483E-05	AP-1, ICAM1, NFKBIA, IP10, TNF-alpha, sICAM1
32	Oxidative stress_ROS-induced cellular signaling	10	108	2.86424E-06	8.80755E-05	p21, HSP27, COX-2 (PTGS2), TXNIP (VDUP1), Adrenomedullin, NFKBIA, HSPA1A, NRF2, c-Jun/c-Fos, TNF-alpha
33	Immune response_Histamine H1 receptor signaling in immune response	7	47	3.89379E-06	0.000116106	ICAM1, NFKBIA, I-kB, c-Jun, c-Jun/c-Fos, c-Fos, TNF-alpha
34	Immune response_MIF-induced cell adhesion, migration and angiogenesis	7	49	5.19364E-06	0.000145258	AP-1, ICAM1, CCL2, c-Jun, MKP-1, c-Jun/c-Fos, c-Fos
35	Activation of TNF-alpha-dependent pro-tumoral effect in colorectal cancer	7	49	5.19364E-06	0.000145258	COX-2 (PTGS2), ICAM1, CCL2, I-kB, c-IAP2, IP10, TNF-alpha
36	Immune response_TLR2 and TLR4 signaling pathways	8	69	5.42529E-06	0.000145258	AP-1, COX-2 (PTGS2), I-kB, TLR2,

						c-Jun, CD14, c-Jun/c-Fos, TNF-alpha
37	Glomerular injury in Lupus Nephritis	9	92	5.7891E-06	0.000145258	GRO-3, A20, ICAM1, GRO-2, CCL2, Bcl-2, IP10, NGAL, TNF-alpha
38	Proteases and EGFR-activated mucin production in airway epithelium in COPD	7	50	5.9679E-06	0.000145258	AP-1, NFKBIA, Bcl-2, c-Jun, c-Jun/c-Fos, TNF-alpha, ErbB3
39	Immune response_C5a signaling	7	50	5.9679E-06	0.000145258	AP-1, I-kB, Bcl-2, c-Jun, c-Jun/c-Fos, c-Fos, TNF-alpha
40	Pro-inflammatory action of Gastrin in gastric cancer	7	50	5.9679E-06	0.000145258	AP-1, COX-2 (PTGS2), GRO-2, I-kB, c-Jun, c-Jun/c-Fos, c-Fos
41	Stellate cells activation and liver fibrosis	8	70	6.05242E-06	0.000145258	ICAM1, GRO-2, CCL2, I-kB, Frizzled, TLR2, c-Fos, TNF-alpha
42	Endothelin-1- and TNF-alpha-induced inflammatory response in asthmatic airway fibroblasts	5	20	6.95469E-06	0.000162938	COX-2 (PTGS2), Endothelin-1, ICAM1, MGF, TNF-alpha
43	Reproduction_Gonadotropin-releasing hormone (GnRH) signaling	8	73	8.31399E-06	0.00018885	AP-1, PER1, ATF-3, c-Jun, MKP-1, c-Jun/c-Fos, FosB, c-Fos
44	Cell cycle_ESR1 regulation of G1/S transition	6	35	8.44452E-06	0.00018885	p21, CDK4, c-Jun, c-Jun/c-Fos, c-Myc, c-Fos
45	Stem cells_Inflammatory response in ischemia-reperfusion injury during myocardial infarction	5	21	9.0241E-06	0.000197327	ICAM1, CCL2, HSP70, TLR2, TNF-alpha
46	Cigarette smoke-induced inflammatory signaling in airway epithelial cells	6	36	1.00156E-05	0.000214247	COX-2 (PTGS2), ICAM1, NFKBIA, TNF-alpha, ErbB3, sICAM1
47	Transcription_Role of AP-1 in regulation of cellular metabolism	6	38	1.38675E-05	0.000284285	p21, AP-1, PLAUR (uPAR), c-Jun, c-Jun/c-Fos, c-Fos
48	Role of Endothelin-1 in inflammation and vasoconstriction in Sickle cell disease	6	38	1.38675E-05	0.000284285	AP-1, Endothelin-1, CCL2, c-Jun, c-Jun/c-Fos, c-Fos
49	TGF-beta signaling via kinase cascades in breast cancer	7	58	1.63393E-05	0.000328119	AP-1, COX-2 (PTGS2), NFKBIA, c-Jun, c-Fos, TNF-alpha, ErbB3

50	IFN-gamma and Th2 cytokines-induced inflammatory signaling in normal and asthmatic airway epithelium	6	40	1.88357E-05	0.000370687	ICAM1, CCL2, CCL17, SOCS3, IL4RA, IP10
----	--	---	----	-------------	-------------	--

Table S7. Top-ranked significantly altered pathways based on ischemia followed by reperfusion-induced gene expression changes in mouse brains (IR/Sham).

#	Maps	Active Genes	Total in Pathway	p-value	FD R	Network Objects from Active Data
1	Chemokines in inflammation in adipose tissue and liver in obesity, type 2 diabetes and metabolic syndrome X	4	48	1.16E-04	2.66E-02	PLAUR (uPAR), CX3CR1, CCL2, CD86
2	Transcription_HIF-1 targets	5	95	1.41E-04	2.66E-02	p21, PLAUR (uPAR), Endothelin-1, Lysyl oxidase, CX3CR1
3	HCV-dependent transcription regulation leading to HCC	3	21	1.75E-04	2.66E-02	p21, HSPA1A, HSP70
4	T cell generation in COPD	3	25	2.98E-04	3.39E-02	CCL2, CCL13, CD86
5	Immune response_IL-4-responsive genes in type 2 immunity	4	70	5.01E-04	4.27E-02	IL4RA, CCL2, CCL13, CCL17
6	The role of KEAP1/NRF2 pathway in skin sensitization	3	32	6.27E-04	4.27E-02	MafF, MafK, HSP70
7	The innate immune response to contact allergens	3	33	6.87E-04	4.27E-02	TXNIP (VDUP1), CCL2, HSP70
8	Disruption of epithelial layer restitution in asthma	3	34	7.51E-04	4.27E-02	PLAUR (uPAR), Endothelin-1, RXRG
9	Cooperative action of IFN-gamma and TNF-alpha on astrocytes in multiple sclerosis	3	37	9.64E-04	4.87E-02	CCL2, CD86, C/EBPdelta
10	IFN-gamma and Th2 cytokines-induced inflammatory signaling in normal and asthmatic airway epithelium	3	40	1.21E-03	5.33E-02	IL4RA, CCL2, CCL17
11	Immune response_Substance P-stimulated expression of proinflammatory cytokines via MAPKs	3	43	1.50E-03	5.33E-02	CCL3L1, CCL2, CCL13
12	Immune response_IL-13 signaling via JAK-STAT	3	44	1.60E-03	5.33E-02	IL4RA, CCL2, CCL17

1 3	Role of free fatty acids in obesity and type 2 diabetes	3	45	1.7 1E -03	5.3 3E -02	ATF-3, CCL2, PDK4
1 4	Differentiation of Th2 cells in asthma	3	45	1.7 1E -03	5.3 3E -02	CCL2, CD86, CCL17
1 5	Dual role of p53 in transcription deregulation in Huntington's Disease	2	12	1.7 6E -03	5.3 3E -02	p21, HSPA1A
1 6	Basophil migration in asthma	3	55	3.0 4E -03	8.6 5E -02	PLAUR (uPAR), CCL2, CCL13
1 7	Immune response_IL-17 signaling pathways	3	60	3.8 9E -03	1.0 4E -01	CCL2, NGAL, C/EBPdelta
1 8	Vascular endothelial cell damage in SLE	3	63	4.4 7E -03	1.1 2E -01	Endothelin-1, CCL2, AML1 (RUNX1)
1 9	MAPK-independent proliferation of normal and asthmatic smooth muscle cells	3	64	4.6 7E -03	1.1 2E -01	p21, Endothelin-1, PLAT (TPA)
2 0	Stem cells_Inflammatory response in ischemia-reperfusion injury during myocardial infarction	2	21	5.4 2E -03	1.2 3E -01	CCL2, HSP70
2 1	Immune response_Oncostatin M signaling via JAK-Stat	2	22	5.9 4E -03	1.2 8E -01	OSMR, CCL2
2 2	Stem cells_Stimulation of differentiation of mouse embryonic fibroblasts into adipocytes by extracellular factors	3	71	6.2 4E -03	1.2 8E -01	Lysyl oxidase, NGAL, C/EBPdelta
2 3	Immune response_IL-6 signaling pathway via JAK/STAT	3	72	6.4 9E -03	1.2 8E -01	p21, CCL2, C/EBPdelta
2 4	Immune escape mechanisms in Prostate Cancer	2	25	7.6 4E -03	1.3 9E -01	CCL2, CCL17
2 5	HSP70 and HSP40-dependent folding in Huntington's disease	2	25	7.6 4E -03	1.3 9E -01	HSPA1A, HSP70
2 6	The role of aberrations in CDKN2 locus and CDK4 in familial melanoma	2	28	9.5 3E -03	1.5 7E -01	p21, MIG6
2 7	DNA damage_ATM / ATR regulation of G2 / M checkpoint	2	28	9.5 3E -03	1.5 7E -01	p21, Wee1
2 8	Cell cycle_Role of SCF complex in cell cycle regulation	2	29	1.0 2E -02	1.5 7E -01	p21, Wee1

29	Bone metastases in Prostate Cancer	2	29	1.02E-02	1.57E-01	Endothelin-1, CCL2
30	Role of adipose tissue hypoxia in obesity and type 2 diabetes	2	30	1.09E-02	1.57E-01	Lysyl oxidase, CCL2
31	Arachidonic acid metabolites production in alveolar macrophages in asthma	2	31	1.16E-02	1.57E-01	Endothelin-1, CCL2
32	T follicular helper cell dysfunction in SLE	3	90	1.20E-02	1.57E-01	IL4RA, TLR7, CD86
33	Th2 cytokine-induced alternative activation of alveolar macrophages in asthma	2	32	1.23E-02	1.57E-01	IL4RA, CCL17
34	IGF family, invasion and metastasis in colorectal cancer	2	33	1.31E-02	1.57E-01	PLAUR (uPAR), PLAT (TPA)
35	Immune response_TLR ligands	2	34	1.39E-02	1.57E-01	TLR7, HSP70
36	Macrophage-induced immunosuppression in the tumor microenvironment	3	96	1.42E-02	1.57E-01	CCL2, TIE2, CCL17
37	Development_Angiopoietin - Tie2 signaling	2	35	1.46E-02	1.57E-01	p21, TIE2
38	Plasminogen activators signaling in pancreatic cancer	2	35	1.46E-02	1.57E-01	PLAUR (uPAR), PLAT (TPA)
39	Th2 cytokine- and TNF-alpha-induced inflammatory response in asthmatic airway fibroblasts	2	35	1.46E-02	1.57E-01	IL4RA, CCL2
40	Immune response_Antigen presentation by MHC class I: cross-presentation	3	99	1.54E-02	1.57E-01	HSPA1A, TLR7, HSP70
41	Development_Beta adrenergic receptors in brown adipocyte differentiation	2	36	1.55E-02	1.57E-01	DIO2, C/EBPdelta
42	Th17 cytokines in COPD	2	36	1.55E-02	1.57E-01	CCL2, CD86
43	Immune response_Oncostatin M signaling via MAPK	2	37	1.63E-02	1.57E-01	OSMR, CCL2
44	Immune response_Generation of memory CD4+ T cells	2	37	1.63E-02	1.57E-01	IL4RA, CD86

45	G-protein signaling_H-RAS regulation pathway	2	37	1.63E-02	1.57E-01	CaIDAG-GEFIII, TIE2
46	Transcription_Role of AP-1 in regulation of cellular metabolism	2	38	1.71E-02	1.57E-01	p21, PLAUR (uPAR)
47	Neutrophil chemotaxis in asthma	2	38	1.71E-02	1.57E-01	CCL2, HSP70
48	TNF-alpha-induced inflammatory signaling in normal and asthmatic airway epithelium	2	38	1.71E-02	1.57E-01	CCL2, CCL17
49	Role of Endothelin-1 in inflammation and vasoconstriction in Sickle cell disease	2	38	1.71E-02	1.57E-01	Endothelin-1, CCL2
50	Immune response_TSLP signalling	2	39	1.80E-02	1.57E-01	CCL2, CCL17

Table S8. Predicted brain miRNA regulatory modules associated with ischemia and reperfusion in mice.

Comparison	miRNA	Gene Symbol	miRNA Fold Change	mRNA Fold Change
InoR/Sham	mmu-miR-770-3p	1110057K04Rik	7.81	-1.54
InoR/Sham	mmu-miR-744-5p	1110057K04Rik	3.70	-1.54
InoR/Sham	mmu-miR-674-5p	1110057K04Rik	2.40	-1.54
InoR/Sham	mmu-miR-874-3p	1110057K04Rik	4.55	-1.54
InoR/Sham	mmu-miR-540-3p	3110052M02Rik	2.68	-1.99
InoR/Sham	mmu-miR-770-3p	3110052M02Rik	7.81	-1.99
InoR/Sham	mmu-miR-452-5p	3110052M02Rik	1.88	-1.99
InoR/Sham	mmu-miR-224-5p	8430408G22Rik	-3.47	4.13
InoR/Sham	mmu-miR-488-3p	8430408G22Rik	-2.17	4.13
InoR/Sham	mmu-miR-335-5p	Abhd2	-3.30	1.58
InoR/Sham	mmu-miR-489-3p	Abhd2	-2.47	1.58
InoR/Sham	mmu-miR-488-3p	Abhd2	-2.17	1.58
InoR/Sham	mmu-miR-335-5p	Acr	-3.30	2.14
InoR/Sham	mmu-miR-542-5p	Acss1	3.09	-1.53
InoR/Sham	mmu-miR-674-5p	Acss1	2.40	-1.53
InoR/Sham	mmu-let-7d-5p	Acss1	2.93	-1.53

InoR/Sham	mmu-miR-193a-3p	Acss1	6.27	-1.53
InoR/Sham	mmu-miR-874-3p	Acss1	4.55	-1.53
InoR/Sham	mmu-miR-540-3p	Acss1	2.68	-1.53
InoR/Sham	mmu-miR-489-3p	Adamts9	-2.47	2.64
InoR/Sham	mmu-miR-224-5p	Aff1	-3.47	1.77
InoR/Sham	mmu-miR-335-5p	Aff1	-3.30	1.77
InoR/Sham	mmu-miR-190a-5p	Aff1	-2.22	1.77
InoR/Sham	mmu-miR-488-3p	Aff1	-2.17	1.77
InoR/Sham	mmu-miR-452-5p	Ahsa2	1.88	-1.55
InoR/Sham	mmu-miR-540-3p	Ahsa2	2.68	-1.55
InoR/Sham	mmu-miR-770-3p	Akr1e1	7.81	-1.62
InoR/Sham	mmu-miR-452-5p	Akr1e1	1.88	-1.62
InoR/Sham	mmu-miR-335-5p	Alpk3	-3.30	1.77
InoR/Sham	mmu-miR-489-3p	Alpk3	-2.47	1.77
InoR/Sham	mmu-miR-488-3p	Alpk3	-2.17	1.77
InoR/Sham	mmu-miR-224-5p	Angptl4	-3.47	1.70
InoR/Sham	mmu-miR-489-3p	Angptl4	-2.47	1.70
InoR/Sham	mmu-miR-452-5p	Ankrd27	1.88	-1.54
InoR/Sham	mmu-miR-540-3p	Ankrd27	2.68	-1.54
InoR/Sham	mmu-miR-488-3p	Ankrd33b	-2.17	1.55
InoR/Sham	mmu-miR-224-5p	Ankrd33b	-3.47	1.55
InoR/Sham	mmu-miR-874-3p	Anpep	4.55	-1.76
InoR/Sham	mmu-miR-540-3p	Anxa3	2.68	-1.65
InoR/Sham	mmu-miR-874-3p	Anxa3	4.55	-1.65
InoR/Sham	mmu-miR-224-5p	Apold1	-3.47	3.60
InoR/Sham	mmu-miR-744-5p	Arc	3.70	-2.41
InoR/Sham	mmu-miR-542-5p	Arc	3.09	-2.41
InoR/Sham	mmu-let-7d-5p	Arc	2.93	-2.41
InoR/Sham	mmu-miR-193a-3p	Arc	6.27	-2.41
InoR/Sham	mmu-miR-874-3p	Arc	4.55	-2.41
InoR/Sham	mmu-miR-193a-3p	Armc2	6.27	-1.68
InoR/Sham	mmu-let-7d-5p	Armc2	2.93	-1.68
InoR/Sham	mmu-miR-190a-5p	Arrdc4	-2.22	1.63
InoR/Sham	mmu-miR-488-3p	Arrdc4	-2.17	1.63
InoR/Sham	mmu-miR-488-3p	Atf3	-2.17	4.55
InoR/Sham	mmu-miR-190a-5p	Atf3	-2.22	4.55
InoR/Sham	mmu-miR-224-5p	Atf3	-3.47	4.55
InoR/Sham	mmu-miR-335-5p	Atf3	-3.30	4.55
InoR/Sham	mmu-miR-452-5p	Bcl2	1.88	-1.53

InoR/Sham	mmu-miR-674-5p	Bcl2	2.40	-1.53
InoR/Sham	mmu-miR-467d-5p	Bet1	2.46	-1.90
InoR/Sham	mmu-miR-540-3p	Bet1	2.68	-1.90
InoR/Sham	mmu-let-7d-5p	Bet1	2.93	-1.90
InoR/Sham	mmu-miR-674-5p	Bet1	2.40	-1.90
InoR/Sham	mmu-miR-770-3p	Bet1	7.81	-1.90
InoR/Sham	mmu-miR-193a-3p	Bet1	6.27	-1.90
InoR/Sham	mmu-miR-489-3p	Birc3	-2.47	1.69
InoR/Sham	mmu-miR-335-5p	Birc3	-3.30	1.69
InoR/Sham	mmu-miR-488-3p	Blnk	-2.17	1.63
InoR/Sham	mmu-miR-190a-5p	Blnk	-2.22	1.63
InoR/Sham	mmu-miR-190a-5p	Btg3	-2.22	1.75
InoR/Sham	mmu-miR-224-5p	C8b	-3.47	1.82
InoR/Sham	mmu-miR-335-5p	C8b	-3.30	1.82
InoR/Sham	mmu-miR-193a-3p	Calcl	6.27	-1.63
InoR/Sham	mmu-miR-540-3p	Calcl	2.68	-1.63
InoR/Sham	mmu-miR-452-5p	Calcl	1.88	-1.63
InoR/Sham	mmu-miR-489-3p	Cc2d1b	-2.47	1.74
InoR/Sham	mmu-miR-224-5p	Cc2d1b	-3.47	1.74
InoR/Sham	mmu-miR-335-5p	Cc2d1b	-3.30	1.74
InoR/Sham	mmu-miR-488-3p	Cc2d1b	-2.17	1.74
InoR/Sham	mmu-miR-193a-3p	Ccdc28a	6.27	-1.57
InoR/Sham	mmu-miR-488-3p	Ccl2	-2.17	2.80
InoR/Sham	mmu-miR-489-3p	Ccl3	-2.47	21.18
InoR/Sham	mmu-miR-335-5p	Ccnl1	-3.30	1.56
InoR/Sham	mmu-miR-190a-5p	Ccnl1	-2.22	1.56
InoR/Sham	mmu-miR-224-5p	Ccnl1	-3.47	1.56
InoR/Sham	mmu-miR-335-5p	Ccrl2	-3.30	3.55
InoR/Sham	mmu-miR-488-3p	Ccrl2	-2.17	3.55
InoR/Sham	mmu-miR-488-3p	Cd86	-2.17	1.68
InoR/Sham	mmu-miR-770-3p	Cdh10	7.81	-1.55
InoR/Sham	mmu-miR-674-5p	Cdh10	2.40	-1.55
InoR/Sham	mmu-miR-193a-3p	Cdh10	6.27	-1.55
InoR/Sham	mmu-miR-874-3p	Cdh11	4.55	-1.50
InoR/Sham	mmu-miR-674-5p	Cdh11	2.40	-1.50
InoR/Sham	mmu-miR-190a-5p	Cdh5	-2.22	1.93

InoR/Sham	mmu-let-7d-5p	Cdk4	2.93	-1.54
InoR/Sham	mmu-miR-335-5p	Cdkn1a	-3.30	3.97
InoR/Sham	mmu-miR-224-5p	Cdkn1a	-3.47	3.97
InoR/Sham	mmu-miR-335-5p	Cenpa	-3.30	1.92
InoR/Sham	mmu-miR-190a-5p	Cenpa	-2.22	1.92
InoR/Sham	mmu-miR-542-5p	Chac2	3.09	-2.03
InoR/Sham	mmu-miR-674-5p	Chac2	2.40	-2.03
InoR/Sham	mmu-miR-452-5p	Chac2	1.88	-2.03
InoR/Sham	mmu-let-7d-5p	Chac2	2.93	-2.03
InoR/Sham	mmu-miR-540-3p	Chac2	2.68	-2.03
InoR/Sham	mmu-miR-467d-5p	Chordc1	2.46	-1.75
InoR/Sham	mmu-let-7d-5p	Cml5	2.93	-1.79
InoR/Sham	mmu-miR-467d-5p	Cog6	2.46	-1.58
InoR/Sham	mmu-miR-193a-3p	Coq3	6.27	-1.52
InoR/Sham	mmu-miR-540-3p	Coq3	2.68	-1.52
InoR/Sham	mmu-miR-467d-5p	Coq3	2.46	-1.52
InoR/Sham	mmu-miR-674-5p	Coq3	2.40	-1.52
InoR/Sham	mmu-miR-224-5p	Cry1	-3.47	1.59
InoR/Sham	mmu-miR-489-3p	Cry1	-2.47	1.59
InoR/Sham	mmu-miR-488-3p	Csrnp1	-2.17	2.07
InoR/Sham	mmu-miR-335-5p	Csrnp1	-3.30	2.07
InoR/Sham	mmu-miR-190a-5p	Ctla2a	-2.22	2.66
InoR/Sham	mmu-let-7d-5p	Cx3cr1	2.93	-1.80
InoR/Sham	mmu-miR-540-3p	Cx3cr1	2.68	-1.80
InoR/Sham	mmu-miR-874-3p	Cx3cr1	4.55	-1.80
InoR/Sham	mmu-miR-674-5p	Cx3cr1	2.40	-1.80
InoR/Sham	mmu-miR-190a-5p	Cxadr	-2.22	1.55
InoR/Sham	mmu-miR-488-3p	Cxadr	-2.17	1.55
InoR/Sham	mmu-miR-224-5p	Cxadr	-3.47	1.55
InoR/Sham	mmu-miR-335-5p	Cxadr	-3.30	1.55
InoR/Sham	mmu-miR-489-3p	Cxcl10	-2.47	3.13
InoR/Sham	mmu-miR-489-3p	Dcaf10	-2.47	1.59
InoR/Sham	mmu-miR-335-5p	Dcaf10	-3.30	1.59
InoR/Sham	mmu-miR-224-5p	Dcaf10	-3.47	1.59
InoR/Sham	mmu-miR-190a-5p	Dcaf10	-2.22	1.59
InoR/Sham	mmu-let-7d-5p	Dcun1d2	2.93	-1.74
InoR/Sham	mmu-miR-540-3p	Dcun1d2	2.68	-1.74

InoR/Sham	mmu-miR-193a-3p	Dcun1d2	6.27	-1.74
InoR/Sham	mmu-let-7d-5p	Ddit4l	2.93	-1.57
InoR/Sham	mmu-miR-193a-3p	Ddit4l	6.27	-1.57
InoR/Sham	mmu-miR-224-5p	Dennd3	-3.47	3.01
InoR/Sham	mmu-miR-770-3p	Dnajc28	7.81	-1.56
InoR/Sham	mmu-let-7d-5p	Dnajc28	2.93	-1.56
InoR/Sham	mmu-miR-452-5p	Dnajc28	1.88	-1.56
InoR/Sham	mmu-miR-874-3p	Dnajc28	4.55	-1.56
InoR/Sham	mmu-miR-540-3p	Dnajc28	2.68	-1.56
InoR/Sham	mmu-miR-874-3p	Dscr3	4.55	-1.50
InoR/Sham	mmu-miR-193a-3p	Dscr3	6.27	-1.50
InoR/Sham	mmu-miR-467d-5p	Dscr3	2.46	-1.50
InoR/Sham	mmu-let-7d-5p	Dscr3	2.93	-1.50
InoR/Sham	mmu-miR-335-5p	Dusp1	-3.30	1.67
InoR/Sham	mmu-miR-488-3p	Dusp1	-2.17	1.67
InoR/Sham	mmu-miR-674-5p	E2f6	2.40	-1.89
InoR/Sham	mmu-let-7d-5p	E2f6	2.93	-1.89
InoR/Sham	mmu-miR-193a-3p	E2f6	6.27	-1.89
InoR/Sham	mmu-miR-489-3p	Edn1	-2.47	2.10
InoR/Sham	mmu-miR-540-3p	Egr2	2.68	-2.06
InoR/Sham	mmu-miR-674-5p	Elmod2	2.40	-1.50
InoR/Sham	mmu-miR-452-5p	Elmod2	1.88	-1.50
InoR/Sham	mmu-miR-335-5p	Emp1	-3.30	2.07
InoR/Sham	mmu-miR-335-5p	Errfi1	-3.30	1.81
InoR/Sham	mmu-miR-488-3p	Errfi1	-2.17	1.81
InoR/Sham	mmu-miR-674-5p	Fa2h	2.40	-1.66
InoR/Sham	mmu-miR-467d-5p	Fam161b	2.46	-1.57
InoR/Sham	mmu-miR-674-5p	Fmo1	2.40	-1.61
InoR/Sham	mmu-miR-674-5p	Fn3krp	2.40	-1.54
InoR/Sham	mmu-miR-489-3p	Fnip2	-2.47	1.57
InoR/Sham	mmu-miR-224-5p	Fosb	-3.47	2.15
InoR/Sham	mmu-miR-744-5p	Fv1	3.70	-1.56
InoR/Sham	mmu-miR-467d-5p	Fv1	2.46	-1.56
InoR/Sham	mmu-miR-489-3p	Fzd4	-2.47	1.97
InoR/Sham	mmu-miR-224-5p	Fzd4	-3.47	1.97
InoR/Sham	mmu-miR-488-3p	Fzd4	-2.17	1.97
InoR/Sham	mmu-miR-488-3p	Gadd45g	-2.17	2.61
InoR/Sham	mmu-miR-224-5p	Gadd45g	-3.47	2.61

InoR/Sham	mmu-miR-224-5p	Gas2l3	-3.47	1.73
InoR/Sham	mmu-miR-488-3p	Gas2l3	-2.17	1.73
InoR/Sham	mmu-miR-335-5p	Gimap6	-3.30	1.56
InoR/Sham	mmu-miR-224-5p	Gimap6	-3.47	1.56
InoR/Sham	mmu-miR-489-3p	Gjb2	-2.47	2.09
InoR/Sham	mmu-miR-488-3p	Gmeb2	-2.17	1.53
InoR/Sham	mmu-miR-224-5p	Gmeb2	-3.47	1.53
InoR/Sham	mmu-miR-335-5p	Gmeb2	-3.30	1.53
InoR/Sham	mmu-miR-540-3p	Gnpda2	2.68	-2.00
InoR/Sham	mmu-miR-452-5p	Gnpda2	1.88	-2.00
InoR/Sham	mmu-miR-542-5p	Gnpda2	3.09	-2.00
InoR/Sham	mmu-miR-193a-3p	Golph3l	6.27	-1.50
InoR/Sham	mmu-miR-540-3p	Golph3l	2.68	-1.50
InoR/Sham	mmu-miR-452-5p	Golph3l	1.88	-1.50
InoR/Sham	mmu-miR-874-3p	Golph3l	4.55	-1.50
InoR/Sham	mmu-miR-540-3p	Gpr17	2.68	-2.56
InoR/Sham	mmu-miR-674-5p	Gpr17	2.40	-2.56
InoR/Sham	mmu-miR-770-3p	Gpr17	7.81	-2.56
InoR/Sham	mmu-miR-874-3p	Gpr17	4.55	-2.56
InoR/Sham	mmu-miR-224-5p	H3f3b	-3.47	1.64
InoR/Sham	mmu-miR-335-5p	H3f3b	-3.30	1.64
InoR/Sham	mmu-miR-335-5p	Hao1	-3.30	2.86
InoR/Sham	mmu-miR-190a-5p	Hao1	-2.22	2.86
InoR/Sham	mmu-miR-489-3p	Hao1	-2.47	2.86
InoR/Sham	mmu-miR-674-5p	Hibch	2.40	-1.54
InoR/Sham	mmu-miR-770-3p	Hibch	7.81	-1.54
InoR/Sham	mmu-miR-190a-5p	Hmgb3	-2.22	1.53
InoR/Sham	mmu-miR-540-3p	Homer2	2.68	-1.73
InoR/Sham	mmu-miR-452-5p	Homer2	1.88	-1.73
InoR/Sham	mmu-miR-467d-5p	Homer2	2.46	-1.73
InoR/Sham	mmu-miR-770-3p	Homer2	7.81	-1.73
InoR/Sham	mmu-let-7d-5p	Homer2	2.93	-1.73
InoR/Sham	mmu-miR-874-3p	Homer2	4.55	-1.73
InoR/Sham	mmu-miR-193a-3p	Homer2	6.27	-1.73
InoR/Sham	mmu-miR-193a-3p	Hpgd	6.27	-2.11
InoR/Sham	mmu-miR-193a-3p	Htr1b	6.27	-1.56
InoR/Sham	mmu-miR-674-5p	Htr1b	2.40	-1.56
InoR/Sham	mmu-miR-874-3p	Htr1b	4.55	-1.56

InoR/Sham	mmu-miR-488-3p	Iffo2	-2.17	1.71
InoR/Sham	mmu-miR-335-5p	Iffo2	-3.30	1.71
InoR/Sham	mmu-miR-489-3p	Iffo2	-2.47	1.71
InoR/Sham	mmu-miR-488-3p	Ifrd1	-2.17	1.60
InoR/Sham	mmu-miR-674-5p	Il10rb	2.40	-1.54
InoR/Sham	mmu-miR-540-3p	Il10rb	2.68	-1.54
InoR/Sham	mmu-miR-874-3p	Il10rb	4.55	-1.54
InoR/Sham	mmu-miR-489-3p	Il1a	-2.47	3.46
InoR/Sham	mmu-miR-488-3p	Il1a	-2.17	3.46
InoR/Sham	mmu-miR-335-5p	Il4ra	-3.30	1.68
InoR/Sham	mmu-miR-224-5p	Il4ra	-3.47	1.68
InoR/Sham	mmu-miR-193a-3p	Inhba	6.27	-1.52
InoR/Sham	mmu-miR-452-5p	Inhba	1.88	-1.52
InoR/Sham	mmu-miR-224-5p	Irak3	-3.47	1.95
InoR/Sham	mmu-miR-190a-5p	Irak3	-2.22	1.95
InoR/Sham	mmu-miR-193a-3p	Kbtbd3	6.27	-1.71
InoR/Sham	mmu-miR-540-3p	Kbtbd3	2.68	-1.71
InoR/Sham	mmu-miR-452-5p	Kbtbd3	1.88	-1.71
InoR/Sham	mmu-miR-770-3p	Kbtbd3	7.81	-1.71
InoR/Sham	mmu-miR-674-5p	Kbtbd3	2.40	-1.71
InoR/Sham	mmu-let-7d-5p	Kbtbd3	2.93	-1.71
InoR/Sham	mmu-miR-874-3p	Kbtbd3	4.55	-1.71
InoR/Sham	mmu-miR-488-3p	Kcng3	-2.17	1.51
InoR/Sham	mmu-miR-489-3p	Kcng3	-2.47	1.51
InoR/Sham	mmu-miR-224-5p	Kcng3	-3.47	1.51
InoR/Sham	mmu-miR-335-5p	Kcng3	-3.30	1.51
InoR/Sham	mmu-miR-190a-5p	Kcng3	-2.22	1.51
InoR/Sham	mmu-let-7d-5p	Kctd21	2.93	-2.27
InoR/Sham	mmu-miR-193a-3p	Kctd21	6.27	-2.27
InoR/Sham	mmu-miR-874-3p	Kctd21	4.55	-2.27
InoR/Sham	mmu-miR-452-5p	Kctd21	1.88	-2.27
InoR/Sham	mmu-miR-224-5p	Kif23	-3.47	1.64
InoR/Sham	mmu-miR-674-5p	Kitl	2.40	-1.53
InoR/Sham	mmu-miR-193a-3p	Lig4	6.27	-1.51
InoR/Sham	mmu-miR-674-5p	Lix1l	2.40	-1.51
InoR/Sham	mmu-let-7d-5p	Lix1l	2.93	-1.51
InoR/Sham	mmu-miR-488-3p	Lox	-2.17	1.50
InoR/Sham	mmu-miR-224-5p	Lox	-3.47	1.50
InoR/Sham	mmu-miR-489-3p	Lox	-2.47	1.50

InoR/Sham	mmu-miR-224-5p	Lrrc32	-3.47	1.76
InoR/Sham	mmu-let-7d-5p	Ly6a	2.93	-1.97
InoR/Sham	mmu-miR-674-5p	Ly6a	2.40	-1.97
InoR/Sham	mmu-miR-467d-5p	Ly6a	2.46	-1.97
InoR/Sham	mmu-miR-770-3p	Ly6a	7.81	-1.97
InoR/Sham	mmu-miR-874-3p	Ly6c1	4.55	-1.63
InoR/Sham	mmu-miR-874-3p	Macrod2	4.55	-1.52
InoR/Sham	mmu-miR-224-5p	Maff	-3.47	2.30
InoR/Sham	mmu-let-7d-5p	Mettl4	2.93	-1.67
InoR/Sham	mmu-miR-452-5p	Mettl4	1.88	-1.67
InoR/Sham	mmu-miR-193a-3p	Mettl7a1	6.27	-1.97
InoR/Sham	mmu-miR-770-3p	Mettl7a1	7.81	-1.97
InoR/Sham	mmu-miR-674-5p	Mis12	2.40	-1.61
InoR/Sham	mmu-miR-874-3p	Mis12	4.55	-1.61
InoR/Sham	mmu-miR-874-3p	Mitd1	4.55	-1.65
InoR/Sham	mmu-miR-674-5p	Mrpl51	2.40	-1.55
InoR/Sham	mmu-let-7d-5p	Mrpl51	2.93	-1.55
InoR/Sham	mmu-miR-452-5p	Mrpl51	1.88	-1.55
InoR/Sham	mmu-miR-874-3p	Mtcp1	4.55	-1.53
InoR/Sham	mmu-miR-674-5p	Ncbp2	2.40	-1.57
InoR/Sham	mmu-miR-540-3p	Ndp	2.68	-1.68
InoR/Sham	mmu-miR-190a-5p	Nedd9	-2.22	1.62
InoR/Sham	mmu-miR-488-3p	Nedd9	-2.17	1.62
InoR/Sham	mmu-miR-452-5p	Nek1	1.88	-1.53
InoR/Sham	mmu-miR-674-5p	Nfe2l2	2.40	-2.17
InoR/Sham	mmu-miR-488-3p	Nfkbiz	-2.17	1.78
InoR/Sham	mmu-miR-335-5p	Nfkbiz	-3.30	1.78
InoR/Sham	mmu-miR-452-5p	Nme7	1.88	-1.51
InoR/Sham	mmu-miR-540-3p	Nme7	2.68	-1.51
InoR/Sham	mmu-miR-335-5p	Nptx2	-3.30	1.75
InoR/Sham	mmu-let-7d-5p	Nudt5	2.93	-1.60
InoR/Sham	mmu-miR-452-5p	Nudt5	1.88	-1.60
InoR/Sham	mmu-miR-744-5p	Nudt5	3.70	-1.60
InoR/Sham	mmu-miR-540-3p	Nudt5	2.68	-1.60
InoR/Sham	mmu-miR-467d-5p	Nudt5	2.46	-1.60
InoR/Sham	mmu-miR-224-5p	Olf920	-3.47	2.43
InoR/Sham	mmu-miR-489-3p	Olf920	-2.47	2.43
InoR/Sham	mmu-miR-190a-5p	Olf920	-2.22	2.43
InoR/Sham	mmu-miR-540-3p	Otub2	2.68	-1.71

InoR/Sham	mmu-miR-874-3p	Otub2	4.55	-1.71
InoR/Sham	mmu-miR-452-5p	Otub2	1.88	-1.71
InoR/Sham	mmu-miR-193a-3p	Otub2	6.27	-1.71
InoR/Sham	mmu-miR-770-3p	Oxnad1	7.81	-1.53
InoR/Sham	mmu-miR-674-5p	Oxnad1	2.40	-1.53
InoR/Sham	mmu-miR-452-5p	P2ry13	1.88	-1.89
InoR/Sham	mmu-miR-540-3p	P2ry13	2.68	-1.89
InoR/Sham	mmu-miR-674-5p	Papola	2.40	-1.53
InoR/Sham	mmu-miR-193a-3p	Papola	6.27	-1.53
InoR/Sham	mmu-miR-452-5p	Papola	1.88	-1.53
InoR/Sham	mmu-miR-540-3p	Pcdh18	2.68	-1.55
InoR/Sham	mmu-miR-674-5p	Pcdh18	2.40	-1.55
InoR/Sham	mmu-miR-489-3p	Per1	-2.47	2.10
InoR/Sham	mmu-miR-874-3p	Pigc	4.55	-1.50
InoR/Sham	mmu-miR-452-5p	Pigc	1.88	-1.50
InoR/Sham	mmu-miR-540-3p	Pigc	2.68	-1.50
InoR/Sham	mmu-miR-193a-3p	Pigh	6.27	-1.57
InoR/Sham	mmu-miR-452-5p	Pigh	1.88	-1.57
InoR/Sham	mmu-miR-190a-5p	Plat	-2.22	1.87
InoR/Sham	mmu-miR-335-5p	Plaur	-3.30	2.07
InoR/Sham	mmu-miR-224-5p	Plaur	-3.47	2.07
InoR/Sham	mmu-miR-488-3p	Plek	-2.17	1.76
InoR/Sham	mmu-miR-224-5p	Plek	-3.47	1.76
InoR/Sham	mmu-miR-467d-5p	Polk	2.46	-1.57
InoR/Sham	mmu-miR-770-3p	Pot1a	7.81	-1.78
InoR/Sham	mmu-miR-874-3p	Pot1a	4.55	-1.78
InoR/Sham	mmu-miR-452-5p	Pot1a	1.88	-1.78
InoR/Sham	mmu-miR-674-5p	Pot1a	2.40	-1.78
InoR/Sham	mmu-miR-674-5p	Pot1b	2.40	-1.58
InoR/Sham	mmu-miR-540-3p	Pot1b	2.68	-1.58
InoR/Sham	mmu-miR-452-5p	Pot1b	1.88	-1.58
InoR/Sham	mmu-miR-674-5p	Pou3f4	2.40	-1.96
InoR/Sham	mmu-miR-874-3p	Pou3f4	4.55	-1.96
InoR/Sham	mmu-let-7d-5p	Ppil6	2.93	-1.62
InoR/Sham	mmu-miR-452-5p	Ppil6	1.88	-1.62
InoR/Sham	mmu-miR-193a-3p	Ppil6	6.27	-1.62
InoR/Sham	mmu-miR-467d-5p	Prelp	2.46	-1.55
InoR/Sham	mmu-miR-744-5p	Prelp	3.70	-1.55

InoR/Sham	mmu-miR-770-3p	Prelp	7.81	-1.55
InoR/Sham	mmu-let-7d-5p	Prelp	2.93	-1.55
InoR/Sham	mmu-let-7d-5p	Prrx1	2.93	-1.53
InoR/Sham	mmu-miR-674-5p	Prrx1	2.40	-1.53
InoR/Sham	mmu-miR-540-3p	Prrx1	2.68	-1.53
InoR/Sham	mmu-miR-467d-5p	Ptchd1	2.46	-1.55
InoR/Sham	mmu-miR-874-3p	Ptchd1	4.55	-1.55
InoR/Sham	mmu-miR-452-5p	Ptchd1	1.88	-1.55
InoR/Sham	mmu-miR-674-5p	Ptpn2	2.40	-2.27
InoR/Sham	mmu-miR-193a-3p	Ptpn2	6.27	-2.27
InoR/Sham	mmu-let-7d-5p	Ptpn2	2.93	-2.27
InoR/Sham	mmu-miR-452-5p	Ptpn2	1.88	-2.27
InoR/Sham	mmu-miR-744-5p	Ptpn2	3.70	-2.27
InoR/Sham	mmu-miR-674-5p	Ranbp3l	2.40	-1.77
InoR/Sham	mmu-miR-874-3p	Ranbp3l	4.55	-1.77
InoR/Sham	mmu-miR-224-5p	Rasd1	-3.47	1.72
InoR/Sham	mmu-miR-540-3p	Rasgrp3	2.68	-1.61
InoR/Sham	mmu-miR-542-5p	Rasgrp3	3.09	-1.61
InoR/Sham	mmu-let-7d-5p	Rasgrp3	2.93	-1.61
InoR/Sham	mmu-miR-452-5p	Rasgrp3	1.88	-1.61
InoR/Sham	mmu-miR-542-5p	Rbbp9	3.09	-1.62
InoR/Sham	mmu-miR-224-5p	Rel	-3.47	2.11
InoR/Sham	mmu-miR-335-5p	Rel	-3.30	2.11
InoR/Sham	mmu-miR-488-3p	Rel	-2.17	2.11
InoR/Sham	mmu-miR-190a-5p	Rel	-2.22	2.11
InoR/Sham	mmu-miR-335-5p	Rhoj	-3.30	1.69
InoR/Sham	mmu-miR-489-3p	Rhoj	-2.47	1.69
InoR/Sham	mmu-miR-488-3p	Rnf125	-2.17	2.57
InoR/Sham	mmu-miR-489-3p	Rnf125	-2.47	2.57
InoR/Sham	mmu-miR-224-5p	Rnf125	-3.47	2.57
InoR/Sham	mmu-miR-335-5p	Rnf125	-3.30	2.57
InoR/Sham	mmu-miR-224-5p	Rnf146	-3.47	1.93
InoR/Sham	mmu-miR-489-3p	Robo4	-2.47	1.64
InoR/Sham	mmu-miR-540-3p	Rpgrip1l	2.68	-1.65
InoR/Sham	mmu-let-7d-5p	Rpgrip1l	2.93	-1.65
InoR/Sham	mmu-miR-467d-5p	Rpgrip1l	2.46	-1.65
InoR/Sham	mmu-miR-452-5p	Rpgrip1l	1.88	-1.65
InoR/Sham	mmu-miR-674-5p	Rpgrip1l	2.40	-1.65
InoR/Sham	mmu-miR-770-3p	Rpp38	7.81	-1.68

InoR/Sham	mmu-miR-467d-5p	Rpp38	2.46	-1.68
InoR/Sham	mmu-miR-335-5p	Rrh	-3.30	2.27
InoR/Sham	mmu-miR-488-3p	Rsad2	-2.17	1.51
InoR/Sham	mmu-miR-335-5p	Rsad2	-3.30	1.51
InoR/Sham	mmu-miR-540-3p	Rsl1	2.68	-1.85
InoR/Sham	mmu-miR-770-3p	Rsl1	7.81	-1.85
InoR/Sham	mmu-miR-467d-5p	Rsl1	2.46	-1.85
InoR/Sham	mmu-miR-874-3p	Rsl1	4.55	-1.85
InoR/Sham	mmu-miR-452-5p	Rsl1	1.88	-1.85
InoR/Sham	mmu-let-7d-5p	Rsl1	2.93	-1.85
InoR/Sham	mmu-miR-224-5p	Rtl1	-3.47	1.54
InoR/Sham	mmu-miR-190a-5p	Runx1	-2.22	1.52
InoR/Sham	mmu-miR-335-5p	Runx1	-3.30	1.52
InoR/Sham	mmu-miR-452-5p	Senp7	1.88	-1.53
InoR/Sham	mmu-miR-467d-5p	Senp7	2.46	-1.53
InoR/Sham	mmu-miR-674-5p	Senp8	2.40	-2.13
InoR/Sham	mmu-let-7d-5p	Senp8	2.93	-2.13
InoR/Sham	mmu-let-7d-5p	Serpnb6b	2.93	-1.63
InoR/Sham	mmu-miR-540-3p	Serpnb6b	2.68	-1.63
InoR/Sham	mmu-miR-674-5p	Serpnb6b	2.40	-1.63
InoR/Sham	mmu-miR-542-5p	Serpnb8	3.09	-1.63
InoR/Sham	mmu-miR-540-3p	Serpnb8	2.68	-1.63
InoR/Sham	mmu-miR-674-5p	Serpnb8	2.40	-1.63
InoR/Sham	mmu-miR-540-3p	Serpnb9	2.68	-1.62
InoR/Sham	mmu-miR-770-3p	Serpnb9	7.81	-1.62
InoR/Sham	mmu-miR-193a-3p	Serpnb9	6.27	-1.62
InoR/Sham	mmu-miR-488-3p	Sfrp4	-2.17	1.63
InoR/Sham	mmu-miR-224-5p	Sik1	-3.47	1.53
InoR/Sham	mmu-miR-674-5p	Slc10a7	2.40	-1.50
InoR/Sham	mmu-let-7d-5p	Slc10a7	2.93	-1.50
InoR/Sham	mmu-miR-467d-5p	Slc10a7	2.46	-1.50
InoR/Sham	mmu-miR-744-5p	Slc10a7	3.70	-1.50
InoR/Sham	mmu-miR-335-5p	Slc15a3	-3.30	1.53
InoR/Sham	mmu-miR-674-5p	Slc19a3	2.40	-1.53
InoR/Sham	mmu-miR-452-5p	Slc38a9	1.88	-1.64
InoR/Sham	mmu-let-7d-5p	Slc38a9	2.93	-1.64
InoR/Sham	mmu-miR-540-3p	Slc38a9	2.68	-1.64
InoR/Sham	mmu-miR-674-5p	Slc38a9	2.40	-1.64

InoR/Sham	mmu-miR-193a-3p	Slc38a9	6.27	-1.64
InoR/Sham	mmu-miR-540-3p	Slc39a2	2.68	-1.73
InoR/Sham	mmu-miR-674-5p	Slc39a2	2.40	-1.73
InoR/Sham	mmu-let-7d-5p	Slc7a11	2.93	-1.61
InoR/Sham	mmu-miR-674-5p	Slc7a11	2.40	-1.61
InoR/Sham	mmu-miR-452-5p	Slc7a11	1.88	-1.61
InoR/Sham	mmu-miR-540-3p	Slc7a11	2.68	-1.61
InoR/Sham	mmu-miR-874-3p	Slc7a11	4.55	-1.61
InoR/Sham	mmu-miR-467d-5p	Slco1a4	2.46	-2.10
InoR/Sham	mmu-miR-674-5p	Slco1a4	2.40	-2.10
InoR/Sham	mmu-miR-674-5p	Slco1c1	2.40	-1.72
InoR/Sham	mmu-miR-467d-5p	Slitrk2	2.46	-1.63
InoR/Sham	mmu-miR-467d-5p	Slitrk6	2.46	-1.58
InoR/Sham	mmu-miR-488-3p	Socs3	-2.17	2.08
InoR/Sham	mmu-miR-488-3p	Sox4	-2.17	1.96
InoR/Sham	mmu-miR-335-5p	Spsb1	-3.30	1.62
InoR/Sham	mmu-miR-540-3p	Srek1ip1	2.68	-1.66
InoR/Sham	mmu-miR-770-3p	Srek1ip1	7.81	-1.66
InoR/Sham	mmu-let-7d-5p	Srek1ip1	2.93	-1.66
InoR/Sham	mmu-miR-542-5p	Srek1ip1	3.09	-1.66
InoR/Sham	mmu-miR-874-3p	Srek1ip1	4.55	-1.66
InoR/Sham	mmu-miR-190a-5p	Stc1	-2.22	1.59
InoR/Sham	mmu-miR-224-5p	Stc1	-3.47	1.59
InoR/Sham	mmu-miR-874-3p	Stradb	4.55	-1.53
InoR/Sham	mmu-miR-540-3p	Stradb	2.68	-1.53
InoR/Sham	mmu-miR-674-5p	Stradb	2.40	-1.53
InoR/Sham	mmu-miR-744-5p	Stxbp4	3.70	-1.59
InoR/Sham	mmu-miR-452-5p	Stxbp4	1.88	-1.59
InoR/Sham	mmu-miR-193a-3p	Stxbp4	6.27	-1.59
InoR/Sham	mmu-miR-874-3p	Stxbp4	4.55	-1.59
InoR/Sham	mmu-miR-540-3p	Stxbp4	2.68	-1.59
InoR/Sham	mmu-miR-467d-5p	Stxbp4	2.46	-1.59
InoR/Sham	mmu-miR-674-5p	Stxbp4	2.40	-1.59
InoR/Sham	mmu-miR-770-3p	Sult1a1	7.81	-1.52
InoR/Sham	mmu-miR-335-5p	Taf5l	-3.30	1.57
InoR/Sham	mmu-miR-335-5p	Tas2r135	-3.30	2.59
InoR/Sham	mmu-miR-488-3p	Tas2r135	-2.17	2.59

InoR/Sham	mmu-miR-190a-5p	Tas2r135	-2.22	2.59
InoR/Sham	mmu-miR-224-5p	Tas2r143	-3.47	2.40
InoR/Sham	mmu-miR-674-5p	Tax1bp3	2.40	-1.60
InoR/Sham	mmu-miR-770-3p	Tax1bp3	7.81	-1.60
InoR/Sham	mmu-let-7d-5p	Tfb1m	2.93	-2.05
InoR/Sham	mmu-miR-874-3p	Tfb1m	4.55	-2.05
InoR/Sham	mmu-miR-540-3p	Tfb1m	2.68	-2.05
InoR/Sham	mmu-miR-674-5p	Thap2	2.40	-2.60
InoR/Sham	mmu-miR-452-5p	Thap2	1.88	-2.60
InoR/Sham	mmu-miR-770-3p	Thap2	7.81	-2.60
InoR/Sham	mmu-miR-488-3p	Tlr7	-2.17	1.53
InoR/Sham	mmu-let-7d-5p	Tm6sf2	2.93	-1.73
InoR/Sham	mmu-miR-335-5p	Tmcc3	-3.30	2.17
InoR/Sham	mmu-miR-489-3p	Tmcc3	-2.47	2.17
InoR/Sham	mmu-miR-193a-3p	Tmem107	6.27	-1.54
InoR/Sham	mmu-miR-770-3p	Tmem119	7.81	-1.58
InoR/Sham	mmu-miR-874-3p	Tmem119	4.55	-1.58
InoR/Sham	mmu-miR-674-5p	Tmem119	2.40	-1.58
InoR/Sham	mmu-miR-542-5p	Tmem119	3.09	-1.58
InoR/Sham	mmu-miR-452-5p	Tmem126b	1.88	-2.27
InoR/Sham	mmu-miR-467d-5p	Tmem126b	2.46	-2.27
InoR/Sham	mmu-miR-770-3p	Tmem126b	7.81	-2.27
InoR/Sham	mmu-miR-540-3p	Tmem126b	2.68	-2.27
InoR/Sham	mmu-miR-193a-3p	Tmem126b	6.27	-2.27
InoR/Sham	mmu-miR-874-3p	Tmem126b	4.55	-2.27
InoR/Sham	mmu-miR-674-5p	Tmem173	2.40	-1.54
InoR/Sham	mmu-miR-193a-3p	Tmem173	6.27	-1.54
InoR/Sham	mmu-let-7d-5p	Tmem173	2.93	-1.54
InoR/Sham	mmu-let-7d-5p	Tmem177	2.93	-1.66
InoR/Sham	mmu-miR-540-3p	Tmem177	2.68	-1.66
InoR/Sham	mmu-miR-488-3p	Tnf	-2.17	2.19
InoR/Sham	mmu-miR-224-5p	Tnfaip3	-3.47	1.92
InoR/Sham	mmu-miR-488-3p	Tnfaip3	-2.17	1.92
InoR/Sham	mmu-miR-193a-3p	Trib2	6.27	-1.65
InoR/Sham	mmu-let-7d-5p	Trib2	2.93	-1.65
InoR/Sham	mmu-miR-874-3p	Trib2	4.55	-1.65
InoR/Sham	mmu-miR-674-5p	Trib2	2.40	-1.65
InoR/Sham	mmu-miR-467d-5p	Trib2	2.46	-1.65

InoR/Sham	mmu-miR-335-5p	Trim72	-3.30	1.66
InoR/Sham	mmu-miR-190a-5p	Trim72	-2.22	1.66
InoR/Sham	mmu-miR-190a-5p	Trp53inp1	-2.22	2.40
InoR/Sham	mmu-miR-335-5p	Trp53inp1	-3.30	2.40
InoR/Sham	mmu-miR-489-3p	Trp53inp1	-2.47	2.40
InoR/Sham	mmu-miR-674-5p	Ttc21b	2.40	-1.64
InoR/Sham	mmu-miR-542-5p	Ttc21b	3.09	-1.64
InoR/Sham	mmu-miR-874-3p	Ttc21b	4.55	-1.64
InoR/Sham	mmu-miR-335-5p	Tubb6	-3.30	1.55
InoR/Sham	mmu-miR-674-5p	Tubd1	2.40	-1.61
InoR/Sham	mmu-miR-224-5p	Txnip	-3.47	2.70
InoR/Sham	mmu-miR-193a-3p	Uba6	6.27	-1.56
InoR/Sham	mmu-miR-452-5p	Uba6	1.88	-1.56
InoR/Sham	mmu-miR-770-3p	Ubxn2b	7.81	-1.63
InoR/Sham	mmu-miR-452-5p	Ubxn2b	1.88	-1.63
InoR/Sham	mmu-miR-874-3p	Ubxn2b	4.55	-1.63
InoR/Sham	mmu-miR-674-5p	Ubxn2b	2.40	-1.63
InoR/Sham	mmu-let-7d-5p	Ubxn2b	2.93	-1.63
InoR/Sham	mmu-miR-874-3p	Ugt8a	4.55	-1.55
InoR/Sham	mmu-miR-452-5p	Ugt8a	1.88	-1.55
InoR/Sham	mmu-miR-770-3p	Ugt8a	7.81	-1.55
InoR/Sham	mmu-miR-770-3p	Uppt	7.81	-1.53
InoR/Sham	mmu-miR-674-5p	Uppt	2.40	-1.53
InoR/Sham	mmu-let-7d-5p	Uppt	2.93	-1.53
InoR/Sham	mmu-miR-452-5p	Uppt	1.88	-1.53
InoR/Sham	mmu-miR-467d-5p	Usp31	2.46	-1.76
InoR/Sham	mmu-miR-540-3p	Usp31	2.68	-1.76
InoR/Sham	mmu-miR-193a-3p	Usp31	6.27	-1.76
InoR/Sham	mmu-miR-452-5p	Usp31	1.88	-1.76
InoR/Sham	mmu-miR-874-3p	Usp31	4.55	-1.76
InoR/Sham	mmu-miR-770-3p	Usp31	7.81	-1.76
InoR/Sham	mmu-miR-489-3p	Usp36	-2.47	1.60
InoR/Sham	mmu-miR-193a-3p	Vmn2r86	6.27	-1.80
InoR/Sham	mmu-miR-744-5p	Vprbp	3.70	-1.52
InoR/Sham	mmu-miR-467d-5p	Vprbp	2.46	-1.52
InoR/Sham	mmu-miR-489-3p	Wdhd1	-2.47	1.56
InoR/Sham	mmu-miR-674-5p	Wdr92	2.40	-1.66
InoR/Sham	mmu-miR-874-3p	Wdr92	4.55	-1.66

InoR/Sham	mmu-miR-540-3p	Wdr92	2.68	-1.66
InoR/Sham	mmu-miR-489-3p	Zbtb16	-2.47	1.64
InoR/Sham	mmu-miR-224-5p	Zbtb16	-3.47	1.64
InoR/Sham	mmu-miR-770-3p	Zbtb26	7.81	-1.50
InoR/Sham	mmu-miR-874-3p	Zbtb26	4.55	-1.50
InoR/Sham	mmu-miR-674-5p	Zbtb26	2.40	-1.50
InoR/Sham	mmu-let-7d-5p	Zbtb26	2.93	-1.50
InoR/Sham	mmu-let-7d-5p	Zfp111	2.93	-1.52
InoR/Sham	mmu-miR-452-5p	Zfp111	1.88	-1.52
InoR/Sham	mmu-miR-193a-3p	Zfp111	6.27	-1.52
InoR/Sham	mmu-miR-674-5p	Zfp111	2.40	-1.52
InoR/Sham	mmu-miR-874-3p	Zfp111	4.55	-1.52
InoR/Sham	mmu-miR-193a-3p	Zfp113	6.27	-1.81
InoR/Sham	mmu-miR-770-3p	Zfp113	7.81	-1.81
InoR/Sham	mmu-miR-452-5p	Zfp113	1.88	-1.81
InoR/Sham	mmu-miR-674-5p	Zfp113	2.40	-1.81
InoR/Sham	mmu-let-7d-5p	Zfp113	2.93	-1.81
InoR/Sham	mmu-miR-467d-5p	Zfp113	2.46	-1.81
InoR/Sham	mmu-miR-452-5p	Zfp160	1.88	-1.64
InoR/Sham	mmu-miR-193a-3p	Zfp160	6.27	-1.64
InoR/Sham	mmu-miR-674-5p	Zfp160	2.40	-1.64
InoR/Sham	mmu-miR-874-3p	Zfp160	4.55	-1.64
InoR/Sham	mmu-miR-467d-5p	Zfp160	2.46	-1.64
InoR/Sham	mmu-miR-193a-3p	Zfp229	6.27	-1.54
InoR/Sham	mmu-miR-452-5p	Zfp229	1.88	-1.54
InoR/Sham	mmu-miR-874-3p	Zfp329	4.55	-1.59
InoR/Sham	mmu-miR-540-3p	Zfp329	2.68	-1.59
InoR/Sham	mmu-miR-674-5p	Zfp354b	2.40	-1.52
InoR/Sham	mmu-miR-874-3p	Zfp354b	4.55	-1.52
InoR/Sham	mmu-miR-744-5p	Zfp354b	3.70	-1.52
InoR/Sham	mmu-let-7d-5p	Zfp354b	2.93	-1.52
InoR/Sham	mmu-miR-770-3p	Zfp418	7.81	-1.94
InoR/Sham	mmu-miR-540-3p	Zfp418	2.68	-1.94
InoR/Sham	mmu-miR-674-5p	Zfp418	2.40	-1.94
InoR/Sham	mmu-miR-452-5p	Zfp418	1.88	-1.94
InoR/Sham	mmu-miR-674-5p	Zfp420	2.40	-1.64
InoR/Sham	mmu-miR-452-5p	Zfp420	1.88	-1.64
InoR/Sham	mmu-miR-540-3p	Zfp426	2.68	-1.55
InoR/Sham	mmu-miR-674-5p	Zfp426	2.40	-1.55

InoR/Sham	mmu-let-7d-5p	Zfp455	2.93	-1.97
InoR/Sham	mmu-miR-452-5p	Zfp455	1.88	-1.97
InoR/Sham	mmu-miR-467d-5p	Zfp455	2.46	-1.97
InoR/Sham	mmu-miR-674-5p	Zfp563	2.40	-1.56
InoR/Sham	mmu-miR-540-3p	Zfp58	2.68	-1.74
InoR/Sham	mmu-let-7d-5p	Zfp583	2.93	-1.56
InoR/Sham	mmu-miR-193a-3p	Zfp595	6.27	-1.88
InoR/Sham	mmu-miR-674-5p	Zfp595	2.40	-1.88
InoR/Sham	mmu-miR-674-5p	Zfp60	2.40	-1.80
InoR/Sham	mmu-miR-467d-5p	Zfp60	2.46	-1.80
InoR/Sham	mmu-miR-193a-3p	Zfp709	6.27	-1.56
InoR/Sham	mmu-let-7d-5p	Zfp709	2.93	-1.56
InoR/Sham	mmu-miR-770-3p	Zfp709	7.81	-1.56
InoR/Sham	mmu-miR-452-5p	Zfp709	1.88	-1.56
InoR/Sham	mmu-miR-540-3p	Zfp709	2.68	-1.56
InoR/Sham	mmu-miR-770-3p	Zfp719	7.81	-2.21
InoR/Sham	mmu-let-7d-5p	Zfp719	2.93	-2.21
InoR/Sham	mmu-miR-452-5p	Zfp719	1.88	-2.21
InoR/Sham	mmu-miR-674-5p	Zfp719	2.40	-2.21
InoR/Sham	mmu-miR-674-5p	Zfp72	2.40	-2.50
InoR/Sham	mmu-miR-452-5p	Zfp72	1.88	-2.50
InoR/Sham	mmu-let-7d-5p	Zfp72	2.93	-2.50
InoR/Sham	mmu-miR-874-3p	Zfp72	4.55	-2.50
InoR/Sham	mmu-let-7d-5p	Zfp759	2.93	-2.23
InoR/Sham	mmu-miR-540-3p	Zfp759	2.68	-2.23
InoR/Sham	mmu-miR-467d-5p	Zfp790	2.46	-1.53
InoR/Sham	mmu-miR-540-3p	Zfp790	2.68	-1.53
InoR/Sham	mmu-miR-874-3p	Zfp790	4.55	-1.53
InoR/Sham	mmu-let-7d-5p	Zfp825	2.93	-1.96
InoR/Sham	mmu-miR-674-5p	Zfp825	2.40	-1.96
InoR/Sham	mmu-miR-467d-5p	Zfp825	2.46	-1.96
InoR/Sham	mmu-miR-542-5p	Zfp825	3.09	-1.96
InoR/Sham	mmu-miR-193a-3p	Zfp825	6.27	-1.96
InoR/Sham	mmu-miR-452-5p	Zfp825	1.88	-1.96
InoR/Sham	mmu-miR-874-3p	Zfp825	4.55	-1.96
InoR/Sham	mmu-miR-452-5p	Zfp84	1.88	-1.51
InoR/Sham	mmu-miR-193a-3p	Zfp84	6.27	-1.51

InoR/Sham	mmu-miR-542-5p	Zfp84	3.09	-1.51
InoR/Sham	mmu-miR-874-3p	Zfp846	4.55	-1.58
InoR/Sham	mmu-let-7d-5p	Zfp846	2.93	-1.58
InoR/Sham	mmu-miR-674-5p	Zfp846	2.40	-1.58
InoR/Sham	mmu-miR-193a-3p	Zfp846	6.27	-1.58
InoR/Sham	mmu-miR-452-5p	Zfp873	1.88	-1.62
InoR/Sham	mmu-miR-770-3p	Zfp873	7.81	-1.62
InoR/Sham	mmu-miR-674-5p	Zfp873	2.40	-1.62
InoR/Sham	mmu-miR-674-5p	Zfp874b	2.40	-1.67
InoR/Sham	mmu-miR-452-5p	Zfp874b	1.88	-1.67
IR/Sham	mmu-miR-296-3p	1110057K04Rik	3.02	-1.64
IR/Sham	mmu-miR-455-3p.1	Abca9	4.28	-1.72
IR/Sham	mmu-miR-370-3p	Banp	2.07	-1.54
IR/Sham	mmu-miR-455-3p.1	Banp	4.28	-1.54
IR/Sham	mmu-miR-296-3p	Car2	3.02	-1.69
IR/Sham	mmu-miR-467e-5p	Car2	2.43	-1.69
IR/Sham	mmu-miR-455-3p.1	Car2	4.28	-1.69
IR/Sham	mmu-miR-296-3p	Chordc1	3.02	-1.62
IR/Sham	mmu-miR-467e-5p	Chordc1	2.43	-1.62
IR/Sham	mmu-miR-669a-3p	Chordc1	4.43	-1.62
IR/Sham	mmu-miR-370-3p	Chordc1	2.07	-1.62
IR/Sham	mmu-miR-296-3p	Cx3cr1	3.02	-1.67
IR/Sham	mmu-miR-669a-3p	Dguok	4.43	-1.73
IR/Sham	mmu-miR-370-3p	Dusp19	2.07	-1.60
IR/Sham	mmu-miR-669a-3p	Dusp19	4.43	-1.60
IR/Sham	mmu-miR-455-3p.1	Dusp19	4.28	-1.60
IR/Sham	mmu-miR-296-3p	E330009J07Rik	3.02	-1.53
IR/Sham	mmu-miR-370-3p	E330009J07Rik	2.07	-1.53
IR/Sham	mmu-miR-455-3p.1	E330009J07Rik	4.28	-1.53
IR/Sham	mmu-miR-455-3p.1	Ermn	4.28	-1.54
IR/Sham	mmu-miR-370-3p	Ermn	2.07	-1.54

IR/Sham	mmu-miR-669a-3p	Fam173b	4.43	-1.51
IR/Sham	mmu-miR-455-3p.1	Fam173b	4.28	-1.51
IR/Sham	mmu-miR-296-3p	Fam173b	3.02	-1.51
IR/Sham	mmu-miR-370-3p	Fam173b	2.07	-1.51
IR/Sham	mmu-miR-467e-5p	Fam173b	2.43	-1.51
IR/Sham	mmu-miR-296-3p	Fmo1	3.02	-1.54
IR/Sham	mmu-miR-455-3p.1	Fmo1	4.28	-1.54
IR/Sham	mmu-miR-467e-5p	Fmo1	2.43	-1.54
IR/Sham	mmu-miR-467e-5p	Gpr17	2.43	-2.20
IR/Sham	mmu-miR-296-3p	Gpr17	3.02	-2.20
IR/Sham	mmu-miR-370-3p	Gpr6	2.07	-1.60
IR/Sham	mmu-miR-455-3p.1	Gpr6	4.28	-1.60
IR/Sham	mmu-miR-296-3p	Itm2a	3.02	-1.59
IR/Sham	mmu-miR-669a-3p	Kctd21	4.43	-2.36
IR/Sham	mmu-miR-370-3p	Kctd21	2.07	-2.36
IR/Sham	mmu-miR-296-3p	Kctd21	3.02	-2.36
IR/Sham	mmu-miR-455-3p.1	Mrpl36	4.28	-2.23
IR/Sham	mmu-miR-296-3p	Mrpl36	3.02	-2.23
IR/Sham	mmu-miR-370-3p	Mrpl36	2.07	-2.23
IR/Sham	mmu-miR-455-3p.1	Ndufa2	4.28	-1.57
IR/Sham	mmu-miR-370-3p	Nipa1	2.07	-1.52
IR/Sham	mmu-miR-669a-3p	Nipa1	4.43	-1.52
IR/Sham	mmu-miR-467e-5p	Nipa1	2.43	-1.52
IR/Sham	mmu-miR-467e-5p	Nudt5	2.43	-1.72
IR/Sham	mmu-miR-370-3p	Prelp	2.07	-1.57
IR/Sham	mmu-miR-455-3p.1	Prelp	4.28	-1.57
IR/Sham	mmu-miR-467e-5p	Ptpn2	2.43	-1.97
IR/Sham	mmu-miR-669a-3p	Ptpn2	4.43	-1.97
IR/Sham	mmu-miR-370-3p	Rasgrp3	2.07	-1.78
IR/Sham	mmu-miR-467e-5p	Rpgrip1l	2.43	-1.69

IR/Sham	mmu-miR-467e-5p	Serpinb6b	2.43	-1.54
IR/Sham	mmu-miR-296-3p	Slc22a8	3.02	-1.66
IR/Sham	mmu-miR-467e-5p	Slc39a2	2.43	-1.70
IR/Sham	mmu-miR-455-3p.1	Slc39a2	4.28	-1.70
IR/Sham	mmu-miR-467e-5p	Slc40a1	2.43	-1.58
IR/Sham	mmu-miR-455-3p.1	Tek	4.28	-1.87
IR/Sham	mmu-miR-296-3p	Tmem119	3.02	-1.55
IR/Sham	mmu-miR-669a-3p	Tmem119	4.43	-1.55
IR/Sham	mmu-miR-370-3p	Tmem119	2.07	-1.55
IR/Sham	mmu-miR-370-3p	Tubd1	2.07	-1.64
IR/Sham	mmu-miR-455-3p.1	Ubxn2b	4.28	-1.53
IR/Sham	mmu-miR-370-3p	Ubxn2b	2.07	-1.53
IR/Sham	mmu-miR-296-3p	Ubxn2b	3.02	-1.53
IR/Sham	mmu-miR-669a-3p	Wdr78	4.43	-1.56
IR/Sham	mmu-miR-370-3p	Wdr78	2.07	-1.56
IR/Sham	mmu-miR-296-3p	Wdr78	3.02	-1.56
IR/Sham	mmu-miR-467e-5p	Wdr78	2.43	-1.56

Table S9. Predicted mRNA targets of candidate stroke miRNAs in mice.

miRNA:mRNA	Tnf	Gprc5a	Ccl3	Atf3	Fosb	Jun	Ptgs2	Cxcl1	Socs3	Ccr12	Zfp36a	Cxcl2
miR-302b-3p	1	0	0	1	1	0	0	0	0	0	0	0
miR-296-5p	0	0	0	0	0	0	0	0	0	1	0	0
miR-489-3p	0	0	1	0	0	0	0	0	0	0	0	0
miR-224-5p	0	0	0	2	1	0	0	0	0	0	0	0
miR-181b-5p	1	0	0	0	0	0	0	0	0	0	0	0
miR-367-3p	1	1	0	0	0	1	1	0	0	1	0	0