

miR-434-3p and DNA hypomethylation co-regulate eIF5A1 to increase AChRs and to improve plasticity in SCT rat skeletal muscle

Short title: miR-434-3p/eIF5A1 mediated AChRs in SCT rat muscle

Fei-Fei Shang^{1,*}, Qing-Jie Xia^{1,*}, Wei Liu², Lei Xia², Bao-Jiang Qian⁴, Ling You⁴, Mu He³,
Jin-Liang Yang^{1,*,#}, Ting-Hua Wang^{1, 2, 3, 4,*,#}

¹Institute of Neurological Disease, State Key Laboratory of Biotherapy and Cancer Center, West China Hospital, Sichuan University, and Collaborative Innovation Center for Biotherapy, Chengdu, 610041, P. R. China

²Department of Anesthesiology and Translational Neuroscience Center, West China Hospital, Sichuan University, Chengdu, 610041, P. R. China

³Department of Neurosurgery, West China Hospital, Sichuan University, Chengdu, 610041, P. R. China

⁴Institute of Neuroscience, Kunming medical University, Kunming, 650031, P.R. China

*These authors contributed equally to this work.

#Corresponding authors:

Ting-Hua Wang, Institute of Neurological Disease, State Key Laboratory of Biotherapy, Department of Anesthesiology and Translational Neuroscience Center, West China Hospital, Sichuan University, P.R. China. E-mail: tinghua_neuron@263.net

Or Jin-Liang Yang, State Key Laboratory of Biotherapy and Cancer Center, West China Hospital, Sichuan University, and Collaborative Innovation Center for Biotherapy. E-mail: jlyang01@163.com

Fig. S1

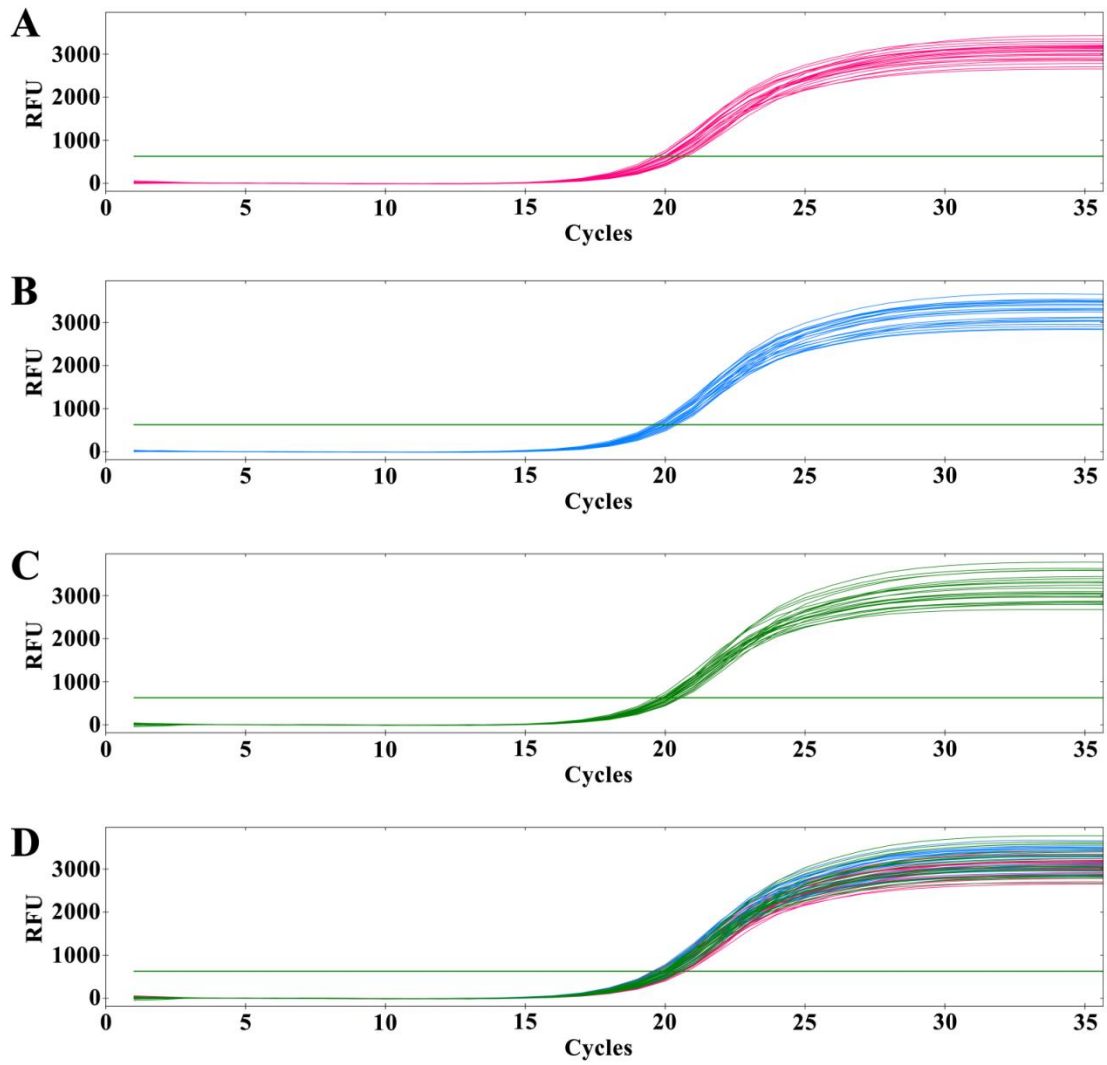


Fig. S1. The Ct values of β -actin in gastrocnemius.

(A) Normal group. (B) SCT 14 days post operation (dpo). (C) SCT 28 dpo. (D) Merged with normal, 14dpo and 28 dpo groups.

Fig. S2

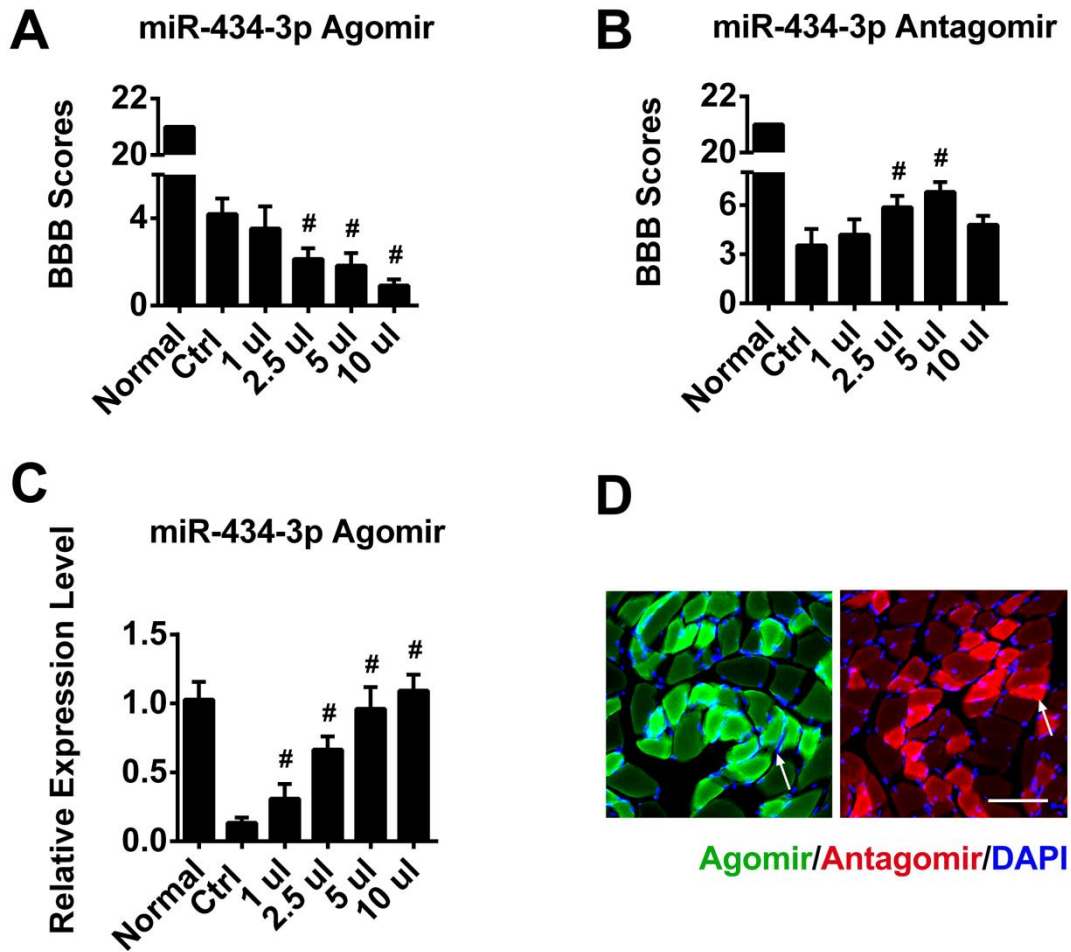


Fig. S2. In condition experiment, the optimal dose of miR-434-3p agomir or antagomir was 5 ul per injection site.

(A, B) After gastrocnemius received 4 gradient dosages of agomir or antagomir (20 μ M), the motor function recovery was measured by BBB scores at 28 dpo. Normal group were 21 ± 0.00 (C) After gastrocnemius received 4 gradient dosages of agomir (20 μ M), the miR-434-3p was measured by RT-PCR at 28 dpo. (D) miR-434-3p agomir modified by FAM (green) and miR-434-3p antagomir modified by Cy3 (red) were injected in rats' gastrocnemius respectively. The arrow pointed out positive cells transfected successfully. Bar=100 um. Ctrl, SCT group; dpo, days post operation. #, $P < 0.05$ compared with the ctrl group.

Table S1. The primers for RT-PCR

Gene	Forward primer	Reverse primer	Length
ACTB	GGTCACCCACACTGTGCCCATCTA	GCCACGCTCGGTCAGGATCTTCAT	118 bp
eIF5A1	GGGAGTGGGTACTGCCTGTGGTTT	AGATGCCTGAGGAGGGATCGTGTC	275 bp
Chrna1	GGCACTTGACCTATGACGGCTCT	GACGCTGCATGACGAAGTGGTAGG	190 bp
Chrb1	AGGGAAGGAAGGACATCGTGAGGA	GCCAGCAGCAGCAAGAACACAGT	207 bp
Chrd	GCCGAAGCCGCTCTTCTACATCA	CGTGCTGGGTGTTTCGGAAGTGGAT	293 bp
Chre	ACGCCAACGACTCACGCCACAT	TCCAAGTTCCATGCCGATGCCTCT	223 bp
Map2k6	AGCCACGGACTTGACTGGTTGACC	GGACTCCTCGTATGCCTCGCCATT	268 bp
Tnnt1	AGCCGTCCTGTGGTTCCTCCTT	CCTCCTCCTCCTTCCGCATCTTCT	289 bp
Camk2d	CGCCGTGATGGGAAGTGGCAGAAT	CGCCAGGTGCCTTGAGGACAGAAT	204 bp
Svil	AGAGTCTGCTGAACCAGGCGAACC	TGCACCTGCTCCACCTCTCCAAGT	192 bp
Myod1	CGCAACGCCATCCGCTACATTGAA	TCGCTGGACGCCTCACTGTAGTAG	257 bp
Myl3	CCAGCACATGGTCGCAGATCACTC	CGCAGGGTGGAGACAGAAAGGGTA	101 bp
Tnnc1	GATGGCAGTGGCACAGTGGACTTC	AGATCCGACAGCTCCTCCTCAGAC	101 bp
Dmd	CGTCTGAAGCAGCAGCATGAGCAT	GCAGCGAGGTAGAAGGAGAGGACA	280 bp
Actc1	CTGGATTCTGGCGACGGTGTGACT	CGTTCAGCGGTGGTGACAAAGGAG	161 bp

Table S2. The primers of eIF5A1 DNA 5' areas for HRM analysis

NO.	Forward primer	Reverse primer	Length
F1	TAAGTAGGAAGGTTT <u>TT</u> TGAAA	<u>AAA</u> TAACCCTT <u>CA</u> ACT	261 bp
F2	TG <u>TT</u> TGGTTGGT <u>T</u> AGTGGGG	TCCCTTCT <u>A</u> CCCCCTCC	264bp
F3	<u>T</u> AGATAGGGTAAAGG <u>TTT</u> TTT	<u>A</u> ACCCAAAAATAAATCTCTC	409 bp
F4	AGAGAT <u>TTT</u> TAT <u>TTT</u> TGGGT <u>T</u>	CAACA <u>AAA</u> AAAA <u>CA</u> CTAA	299 bp

Underline means the cytosine has been converted to uracil by sodium bisulfite.

Table S3. The primers of eIF5A1 DNA 5' areas for MeDIP analysis

NO.	Forward primer	Reverse primer	Length
F1	TAAGTAGGAAGGTTCTCTGAAA	AGGGTAACCCTTGCAGCT	261 bp
F2	TGCTTGGTTGGTCAGTGGGG	TCCCTTCTGCCCCCTCC	264bp
F3	CAGACAGGGCAAAGGCTCCT	GACCCAAGGGTAGGGTCTCTC	409 bp
F4	AGAGACCCTACCCTTGGGTC	CAACAGGGAAGGCACTGG	299 bp

Table S4. Determining the effective shRNA fragment of Map2k6 in PC12 cell line.

Group	Mean	Std. Error	P-value
Normal	0.161	0.011	1.000
Control	0.147	0.016	
Map2k6-shRNA- 1	0.092	0.003	0.015
Map2k6-shRNA- 2	0.088	0.006	0.006
Map2k6-shRNA- 3	0.101	0.028	0.745
Map2k6-shRNA- 4	0.177	0.052	1.000

The Map2k6 interference level was compared by RT-PCR, using β -actin as an internal control. Map2k6-shRNA- 2 produced a significant down-regulation compared with Control group (P=0.006).

Table S5. The sequence information of eIF-5A1 and Map2k6 regulation lentiviruses vector.

Code name	Target Sequence
eIF-5A1-shRNA-lentivirus *	GCAAGGAGATTGAGCAGAA
Map2k6-shRNA-lentivirus *	CTACAGTAGTTGACGAGATT
Map2k6-expression-lentivirus *	ATGTCTCAGTCGAAAGGCAAGAAGCGAAACCCCGCCTTAAGA TTCCAAGGGAAGCGTTTGAACAACCTCAGACCAGTTCCACGCCG CCTCGGGATTTAGACTCCAAGGCTTGCATTTCTATTGGAAACCA GAACTTTGAGGTGAAGGCCGATGACTTGGAGCCTATAGTGGAGC TGGGACGAGGTGCGTACGGGGTGGTGGAGAAGATGCGTCACGT GCCCAGCGGGCAGATCATGGCGGTGAAGCGGATACGGGCCACA GTTAATAGCCAGGAGCAGAAACGGCTACTGATGGATCTGGATGT TTCTATGAGGACAGTGGACTGTCCGTTTACCGTGACCTTCTATGG TGCACTCTCCGGGAGGGCGATGTGTGGATCTGCATGGAGCTCA TGGATACGTCACTAGATAAAATTCTACAAACAAGTTATTGATAAA GGCCAAACAATTCCAGAAGATATCTTAGGGAAGATAGCAGTTTC TATTGTAAGCATTAGAACATTTACACAGTAAGCTCTCTGTTA TCCATCGAGATGTCAAGCCTTCAAATGTGCTCATTAACACGCTG GGCCAAGTGAAGATGTGTGACTTTGGAATCAGCGGCTACCTGGT AGACTCTGTTGCGAAAACGATCGATGCCGGTTGCAAACCATAACA TGGCTCCTGAACGAATAAATCCAGAGCTCAACCAGAAGGGGTA CAGTGTGAAGTCTGACATTTGGAGTCTGGGCATCACCATGATTG AGCTGGCCATCCTCCGGTTTCCCTATGATTCTTGGGGAACGCCCT

TCCAGCAGCTAAAACAGGTGGTAGAAGAGCCGTCTCCACAACCTC
CCAGCGGACAAGTTCTCTGCTGACTTCGTTGACTTTACCTCACAG
TGCTTGAAGAAAAATTCCAAAGAACGGCCCACGTATCCAGAGCT
TATGCAACATCCATTTTTACCGTCCATGAAGCCAAAGCAGCAG
ATGTGGCGTCTTTCGTAAAACCTGATACTCGGGGACTAG

* eIF-5A1-shRNA-lentivirus, the lentiviruses vector could interfere mRNA of eIF-5A1 was produced by viral packaging system. This effective sequence was obtained from our preceding report. *Map2k6-shRNA-lentivirus, the lentiviruses vector could interfere mRNA of Map2k6 was produced by viral packaging system. This is the most effective sequence code No.2 (Table S4.). *Map2k6-expression-LV, the lentiviruses vector could expression mRNA of Map2k6 was produced by viral packaging system.

Supplementary miRNA microarray information

Systematic Name	Fold change	chr	mirbase_accession_No
rno-let-7a-1-3p	44.63317711	chr7	MIMAT0017085
rno-let-7a-5p	0.916283535	chr8	MIMAT0000774
rno-let-7b-3p	45.38653041	chr7	MIMAT0004705
rno-let-7b-5p	0.755545739	chr7	MIMAT0000775
rno-let-7c-1-3p	0.95035801	chr11	MIMAT0017087
rno-let-7c-5p	0.881316426	chr7	MIMAT0000776
rno-let-7d-3p	98.31297324	chr17	MIMAT0000563
rno-let-7d-5p	1	chr17	MIMAT0000562
rno-let-7e-3p	0.95035801	chr1	MIMAT0004706
rno-let-7e-5p	0.926435858	chr1	MIMAT0000777
rno-let-7f-1-3p	0.95035801	chr17	MIMAT0017089
rno-let-7f-2-3p	0.95035801	chrX	MIMAT0017090
rno-let-7f-5p	0.936538365	chr17	MIMAT0000778
rno-let-7i-3p	0.95035801	chr7	MIMAT0004707
rno-let-7i-5p	1.052277344	chr7	MIMAT0000779
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rno-miR-1-5p	0.95035801	chr18	MIMAT0003162
rno-miR-100-3p	0.95035801	chr8	MIMAT0017112
rno-miR-100-5p	0.947463979	chr8	MIMAT0000822
rno-miR-101a-3p	1.425541461	chr5	MIMAT0000823
rno-miR-101a-5p	0.95035801	chr5	MIMAT0004726
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rno-miR-206-5p	0.95035801	chr9	MIMAT0017154
rno-miR-207	0.95035801	chr5	MIMAT0003115
rno-miR-208a-3p	0.95035801	chr15	MIMAT0000880
rno-miR-208a-5p	121.8435355	chr15	MIMAT0017155
rno-miR-208b-3p	0.95035801	chr15	MIMAT0017845
rno-miR-208b-5p	0.95035801	chr15	MIMAT0017844
rno-miR-20a-3p	0.95035801	chr15	MIMAT0000603
rno-miR-20a-5p	0.963644752	chr15	MIMAT0000602
rno-miR-20b-3p	0.95035801	chrX	MIMAT0003212
rno-miR-20b-5p	1.102225034	chrX	MIMAT0003211
rno-miR-21-3p	0.95035801	chr10	MIMAT0004711
rno-miR-21-5p	0.960165497	chr10	MIMAT0000790
rno-miR-210-3p	1.045395098	chr1	MIMAT0000881
rno-miR-210-5p	0.95035801	chr1	MIMAT0017156
rno-miR-211-3p	1.038058249	chr1	MIMAT0017157

rno-miR-211-5p	0.95035801	chr1	MIMAT0000882
rno-miR-212-3p	1.306363783	chr10	MIMAT0000883
rno-miR-212-5p	0.95035801	chr10	MIMAT0017158
rno-miR-214-3p	0.967631674	chr13	MIMAT0000885
rno-miR-214-5p	0.95035801	chr13	MIMAT0017159
rno-miR-215	0.95035801	chr13	MIMAT0003118
rno-miR-216a-3p	0.95035801	chr14	MIMAT0017160
rno-miR-216a-5p	0.95035801	chr14	MIMAT0000886
rno-miR-216b-3p	0.95035801	chr14	MIMAT0017847
rno-miR-216b-5p	0.95035801	chr14	MIMAT0017846
rno-miR-217-3p	0.95035801	chr14	MIMAT0017161
rno-miR-217-5p	0.95035801	chr14	MIMAT0000887
rno-miR-218a-1-3p	0.95035801	chr14	MIMAT0017162
rno-miR-218a-2-3p	0.95035801	chr10	MIMAT0004740
rno-miR-218a-5p	1.329541122	chr10	MIMAT0000888
rno-miR-218b	0.95035801	chr14	MIMAT0017838
rno-miR-219-1-3p	0.95035801	chr20	MIMAT0004741
rno-miR-219-2-3p	0.95035801	chr3	MIMAT0005446
rno-miR-219-5p	0.95035801	chr3	MIMAT0000889
rno-miR-22-3p	0.91420968	chr10	MIMAT0000791
rno-miR-22-5p	1.149592855	chr10	MIMAT0003152
rno-miR-221-3p	0.875129606	chrX	MIMAT0000890
rno-miR-221-5p	0.95035801	chrX	MIMAT0017163
rno-miR-222-3p	0.95035801	chrX	MIMAT0000891
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rno-miR-223-5p	0.95035801	chrX	MIMAT0017165
rno-miR-224-3p	0.95035801	chrX	MIMAT0017200
rno-miR-224-5p	0.95035801	chrX	MIMAT0003119
rno-miR-23a-3p	0.967043036	chr19	MIMAT0000792
rno-miR-23a-5p	0.95035801	chr19	MIMAT0004712
rno-miR-23b-3p	0.831277173	chr17	MIMAT0000793
rno-miR-23b-5p	0.95035801	chr17	MIMAT0017099
rno-miR-24-1-5p	0.95035801	chr17	MIMAT0003153
rno-miR-24-2-5p	1.345090646	chr19	MIMAT0005441
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rno-miR-25-3p	0.963635401	chr12	MIMAT0000795
rno-miR-25-5p	0.95035801	chr12	MIMAT0004713
rno-miR-26a-3p	0.95035801	chr8	MIMAT0017100
rno-miR-26a-5p	1	chr8	MIMAT0000796
rno-miR-26b-3p	0.95035801	chr9	MIMAT0004714
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rno-miR-27a-3p	1.066995432	chr19	MIMAT0000799
rno-miR-27a-5p	0.95035801	chr19	MIMAT0004715

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rno-miR-27b-5p	0.95035801	chr17	MIMAT0017101
rno-miR-28-3p	0.95035801	chr11	MIMAT0004716
rno-miR-28-5p	1.041031916	chr11	MIMAT0000800
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rno-miR-291a-3p	0.95035801	chr1	MIMAT0000895
rno-miR-291a-5p	0.95035801	chr1	MIMAT0000894
rno-miR-291b	0.95035801	chr1	MIMAT0017822
rno-miR-292-3p	0.95035801	chr1	MIMAT0000897
rno-miR-292-5p	0.95035801	chr1	MIMAT0000896
rno-miR-293-3p	0.95035801	chr1	MIMAT0017365
rno-miR-293-5p	0.95035801	chr1	MIMAT0012847
rno-miR-294	0.95035801	chr1	MIMAT0012848
rno-miR-295-3p	0.95035801	chr1	MIMAT0017366
rno-miR-295-5p	0.95035801	chr1	MIMAT0012849
rno-miR-296-3p	0.95035801	chr3	MIMAT0004742
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rno-miR-2964	0.95035801	chr3	MIMAT0017882
rno-miR-297	0.95035801	chr10	MIMAT0000899
rno-miR-298-3p	0.95035801	chr3	MIMAT0017166
rno-miR-298-5p	0.95035801	chr3	MIMAT0000900
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rno-miR-299a-3p	0.95035801	chr6	MIMAT0017167
rno-miR-299a-5p	0.0037604	chr6	MIMAT0000901
rno-miR-299b-3p	0.95035801	chr6	MIMAT0017834
rno-miR-299b-5p	0.95035801	chr6	MIMAT0017833
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rno-miR-29b-3p	1.755775027	chr4	MIMAT0000801
rno-miR-29c-3p	1.611248483	chr13	MIMAT0000803
rno-miR-29c-5p	1.796914419	chr13	MIMAT0003154
rno-miR-300-3p	0.00478863	chr6	MIMAT0000902
rno-miR-300-5p	0.95035801	chr6	MIMAT0004743
rno-miR-301a-3p	1.240018891	chr10	MIMAT0000552
rno-miR-301a-5p	0.95035801	chr10	MIMAT0017026
rno-miR-301b-3p	0.95035801	chr11	MIMAT0005304
rno-miR-301b-5p	0.95035801	chr11	MIMAT0017300
rno-miR-3065-3p	0.95035801	chr10	MIMAT0017840
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rno-miR-3068-5p	0.95035801	chr6	MIMAT0024845
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rno-miR-3074	0.95035801	chr17	MIMAT0017815
rno-miR-3075	0.95035801	chr16	MIMAT0025057
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rno-miR-3099	0.95035801	chr1	MIMAT0025048
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rno-miR-30d-3p	88.7915573	chr7	MIMAT0004722
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rno-miR-30e-3p	1.217250421	chr5	MIMAT0004720
rno-miR-30e-5p	1	chr5	MIMAT0000805
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rno-miR-31a-3p	0.95035801	chr5	MIMAT0017102
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rno-miR-32-3p	0.95035801	chr5	MIMAT0017103
rno-miR-32-5p	0.95035801	chr5	MIMAT0000811
rno-miR-320-3p	0.938153305	chr15	MIMAT0000903
rno-miR-320-5p	0.95035801	chr15	MIMAT0017168
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rno-miR-324-5p	1.395843696	chr10	MIMAT0000553
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rno-miR-326-3p	0.95035801	chr1	MIMAT0000560
rno-miR-326-5p	0.95035801	chr1	MIMAT0017028
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rno-miR-330-3p	0.95035801	chr1	MIMAT0000568
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rno-miR-331-5p	0.95035801	chr7	MIMAT0017033
rno-miR-335	0.452623846		MIMAT0000575
rno-miR-336-3p	0.95035801	chr10	MIMAT0017034
rno-miR-336-5p	0.95035801	chr10	MIMAT0000576
rno-miR-337-3p	0.004892026	chr6	MIMAT0000577
rno-miR-337-5p	0.95035801	chr6	MIMAT0017035
rno-miR-338-3p	0.715164981	chr10	MIMAT0000581
rno-miR-338-5p	0.95035801	chr10	MIMAT0004646
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rno-miR-339-5p	0.95035801	chr12	MIMAT0000583
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rno-miR-344a-3p	0.95035801	chr1	MIMAT0000592
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rno-miR-344b-2-3p	0.95035801	chr1	MIMAT0017812
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rno-miR-345-3p	0.95035801	chr6	MIMAT0004655
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rno-miR-346	0.95035801	chr16	MIMAT0000596
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rno-miR-3548	0.95035801	chr5	MIMAT0017806
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rno-miR-3551-3p	0.95035801	chrX	MIMAT0017810
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rno-miR-3596a	0.95035801	chr8	MIMAT0017886
rno-miR-3596b	0.95035801	chr17	MIMAT0017871
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rno-miR-369-3p	0.95035801	chr6	MIMAT0003207
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rno-miR-375-5p	0.95035801	chr9	MIMAT0017301
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rno-miR-376b-3p	0.95035801	chr6	MIMAT0003196
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rno-miR-376c-3p	0.95035801	chr6	MIMAT0003194
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rno-miR-377-3p	0.95035801	chr6	MIMAT0003123
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rno-miR-381-3p	0.006003316	chr6	MIMAT0003199
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rno-miR-421-3p	0.95035801	chrX	MIMAT0017175
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rno-miR-674-3p	0.011164069	chr3	MIMAT0005330
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Supplementary mRNA microarray information

Control_vs_Normal 2.0 fold up regulated genes

Fold change	Regulation	ACCESSION	GeneSymbol	GeneID
2.5321603	up	NM_001007759	3-Mar	364878
6.000517	up	XM_001080178	5-Mar	294079
2.239044	up	XM_001065952	6-Mar	294862
7.8270965	up	NM_057148	2-Sep	117515
7.8498096	up	NM_001011893	4-Sep	287606
9.984365	up	NM_022616	7-Sep	64551
2.8324516	up	XM_001063271	11-Sep	305227
21.22125	up	NM_133297	15-Sep	113922
192.48135	up	XM_001076609	A2bp1	302920
29.53327	up	XM_001057423	Aamp	301512
13.188923	up	XM_001077503	Aars	292023
2.5877452	up	NM_001034109	Aarsd1	619440
2.4969501	up	XM_344230	Aasdh	364136
7.48782	up	XM_001070860	Aasdhppt	300328
6.499917	up	NM_053720	Aatf	114512
3.5585437	up	NM_178095	Abca1	313210
2.7695181	up	NM_173307	Abca5	286970
3.35671	up	NM_207598	Abca7	299609
7.3138556	up	XM_001081603	Abca8a	303638
4.8900294	up	NM_001012166	Abcb10	361439
64.058136	up	NM_080582	Abcb6	140669
4.106377	up	NM_212518	Abcb7	302395
21.744947	up	NM_022281	Abcc1	24565
5.565488	up	NM_133411	Abcc4	170924
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7.886269	up	NM_013039	Abcc8	25559
50.914726	up	NM_013040	Abcc9	25560
31.650076	up	XM_001064797	Abce1	361390
57.57595	up	XM_001056151	Abcf1	85493
18.05017	up	XM_001057136	Abcf2	311959
8.042051	up	NM_001011896	Abcf3	287982
6.8743954	up	NM_001024314	Abhd12	499913
5.6362	up	XM_001076411	Abhd13	306630
2.3718662	up	XM_001064693	Abhd2	293050
6.2116227	up	XM_001053662	Abhd4	364380
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4.2911906	up	NM_001007680	Abhd6	305795
10.791459	up	NM_024397	Abi1	79249
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2.6042612	up	NM_001001514	Ablim2	360958

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69.201385	up	NM_130433	Acaa2	170465
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19.423185	up	XM_001059349	Acad9	294973
33.392086	up	NM_016986	Acadm	24158
26.181276	up	NM_013084	Acadsb	25618
24.371769	up	NM_012891	Acadvl	25363
59.369328	up	NM_017075	Acat1	25014
3.3336012	up	NM_001006995	Acat2	308100
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11.946795	up	NM_001011906	Acbd6	289125
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12.656479	up	XM_001054451	Acin1	305884
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31.874144	up	NM_012820	Acs11	25288
45.02632	up	NM_057107	Acs13	114024
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4.284527	up	NM_053607	Acs15	94340
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13.425908	up	XM_001064684	Acss2	311569
1018.92096	up	NM_019212	Acta1	29437
69.88831	up	NM_031144	Actb	81822
24.48424	up	NM_019183	Actc1	29275
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305.7847	up	NM_133424	Actn3	171009
3.6932015	up	NM_031675	Actn4	63836
5.68593	up	NM_001039028	Actr1b	316333
43.398056	up	NM_001009268	Actr2	289820
6.7385473	up	NM_031068	Actr3	81732
18.266203	up	XM_001063449	Actr8	361107
3.3587387	up	NM_024486	Acvr1	79558
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3.746111	up	NM_031571	Acvr2a	29263
2.8916993	up	NM_001005383	Acy1	300981
18.543358	up	XM_001060176	Acyp1	299203
3.6294734	up	NM_130399	Ada	24165
5.914033	up	XM_001054737	Adam10	29650
6.6142163	up	NM_020308	Adam15	57025
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11.385195	up	NM_001014772	Adam9	290834
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2.3827314	up	XM_213548	Adamts2	287899
3.6736531	up	XM_001058144	Adamts20	315263
4.0169187	up	NM_198761	Adamts5	304135
2.3295884	up	XM_001055774	Adamts8	300475
6.1983924	up	XM_001076761	Adamts9	312566
3.417174	up	NM_020101	Adap2	56826
2.3325517	up	NM_031006	Adar	81635
34.58998	up	NM_031007	Adcy2	81636
4.902949	up	NM_019285	Adcy4	54223
5.834807	up	XM_001077332	Adcy9	302950
2.4965441	up	NM_031552	Add3	25230
18.895517	up	NM_001007144	Adfp	298199
8.3343525	up	NM_001025423	Adhfe1	362474
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17.4825	up	NM_012895	Adk	25368
3.8220046	up	NM_012715	Adm	25026
5.3928375	up	NM_022681	Adnp	64622
10.938377	up	NM_183325	Adprh	25371
9.6545515	up	NM_001013054	Adprhl1	290880
5.9929714	up	NM_012492	Adrb2	24176
52.611755	up	NM_031708	Adrm1	65138
54.485783	up	XM_001076341	Adsl	315150
13.369838	up	XM_001059694	Adss	289276
13.746138	up	XM_001064302	Aen	361594
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7.3134885	up	NM_001011911	Lyar	289707

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3.412011	up	NM_012771	Lyz2	25211
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8.422546	up	NM_001009699	Mad2l1bp	316237
7.1314554	up	NM_001012106	Mad2l2	313702
18.845701	up	NM_001008319	Maea	298982
81.51627	up	NM_001014085	Maf1	315093
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15.756464	up	NM_145673	Mafk	246760
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2.08352	up	NM_001047860	Znfx1	296384
2.1661386	up	XM_001081104	Znhit3	497975
6.277812	up	XM_001079278	Znhit6	292160
3.9868867	up	NM_213567	Znrd1	361784
5.1997795	up	XM_001060895	Znrf2	362367
11.685678	up	NM_031616	Zranb2	58821
5.732154	up	NM_001017504	Zrsr1	498425
2.3695376	up	NM_001012021	Zscan21	304342
2.8649735	up	XM_001070698	Zswim3	311630

6.2221537	up	XM_001067858	Zswim4	304655
14.969494	up	NM_001024801	Zw10	363059
2.1035545	up	NM_147138	Zwint	257644
3.5818927	up	XM_001072096	Zyx	114636

Control_vs_Normal 2.0 fold down regulated genes

Fold change	Regulation	ACCESSION	GeneSymbol	GeneID
8.299269	down	XM_574883	11-Mar	499558
3.2765787	down	NM_001012460	1-Sep	293507
20.701687	down	XM_001077761	6-Sep	691335
11.061232	down	NM_001025634	A2ld1	290500
4.162712	down	XM_001067255	Aaas	300259
2.16116	down	XM_001062198	Aadacl2	295076
3.8256989	down	NM_134398	Aagab	171435
2.251931	down	XM_001070331	Aak1	500244
2.18158	down	NM_145093	Aard	246323
3.7086017	down	XM_001067517	Aars2	301254
5.556882	down	NM_031003	Abat	81632
3.1010847	down	XM_001075753	Abca15	293442
2.0041337	down	XM_001054596	Abca3	302973
3.2180715	down	XM_001062082	Abcb5	314537
5.556858	down	NM_053754	Abcg5	114628
2.0560272	down	NM_001013118	Abi3	303476
10.646641	down	XM_001068096	Abl2	304883
2.0399144	down	XM_001072491	Abt1	306960
3.497746	down	NM_012489	Acaa1	24157
4.647921	down	NM_001034014	Accn1	25364
2.0124934	down	NM_024154	Accn2	79123
3.537833	down	NM_172009	Ache	83817
3.00379	down	NM_001080096	Acsbg2	301120
5.1431317	down	NM_144748	Acsm2	246263
12.444978	down	NM_001014162	Acsm5	361637
15.229722	down	XM_001074422	Actbl2	294732
11.09194	down	NM_022441	Acvrl1	25237
2.212402	down	XM_001055227	Acyp2	364224
5.585696	down	XM_001054670	Adam12	679837
4.514208	down	NM_020078	Adam1a	56777
16.890736	down	XM_228290	Adamts14	309837
2.6849713	down	XM_001060610	Adamts19	361332
5.355706	down	XM_341154	Adamts4	66015
8.593815	down	XM_001072537	Adamts6	361886
21.685356	down	XM_001078833	Adamts12	311827
2.0093038	down	XM_001075711	Adat1	690810

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4.0972166	down	NM_144744	Adipoq	246253
3.3320558	down	XM_001057958	Adprhl2	362600
2.7144709	down	NM_138506	Adra2c	24175
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9.012444	down	NM_080900	Afap1	140935
3.9030876	down	XM_001058822	Afap111	291565
13.431624	down	XM_001066299	Agap1	316611
4.6442437	down	XM_342881	Agbl4	362562
2.5638835	down	NM_053336	Ager	81722
3.0133858	down	XM_226709	Aggf1	310005
20.671062	down	XM_001070306	Agps	84114
3.059936	down	NM_175754	Agrn	25592
4.0440702	down	NM_013149	Ahr	25690
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2.841165	down	XM_214790	Aig1	292486
2.6406074	down	XM_001069409	Ak7	314416
2.0208218	down	NM_022680	Akp3	64621
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5.399938	down	NM_013215	Akr7a3	26760
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2.3836877	down	XM_001079600	Alox12	287454
2.0877938	down	NM_013059	Alpl	25586
21.456038	down	NM_012921	Alx1	25401
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4.8943563	down	XM_001057982	Ammecr11	307526
2.011514	down	NM_031502	Amy2	497039
2.3653278	down	XM_345278	Amy2-3	365914
4.0745707	down	NM_001047092	Amz1	304317
6.074704	down	NM_001012359	Ang	497229
13.082161	down	NM_001006992	Ang1	305843
16.494251	down	XM_216613	Angptl6	298698
4.4441013	down	XM_576558	Ankar	501138
7.5344677	down	XM_346238	Ankdd1a	367646
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2.59251	down	XM_001068648	Ankrd13d	361699
8.260152	down	XM_574104	Ankrd29	498823
2.5736651	down	NM_198684	Ankrd36	305491
4.834202	down	XM_001061163	Ankrd37	361149
2.690907	down	XM_001070685	Ankrd52	362811
5.5059514	down	XM_342195	Ankrd55	361898
11.38182	down	XM_001053864	Ankrd57	503306
2.963331	down	XM_001067026	Anln	307056
4.282546	down	XM_235024	Ano4	299714

5.742238	down	XM_001057694	Ano6	315272
2.959141	down	XM_001071546	Anxa10	498622
2.8912454	down	NM_001031654	Anxa8	306283
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5.566303	down	XM_001079912	Apob48r	499264
8.227828	down	NM_001085352	Apoc2	292697
2.1487882	down	XM_001075828	Apol2	315111
3.1063163	down	NM_173105	Aqp11	286758
2.083774	down	NM_001024742	Ard1b	289482
4.9276166	down	XM_001081375	Arhgap23	303501
2.2780907	down	XM_001070699	Arhgap25	500246
3.3548567	down	XM_001066829	Arhgap26	307459
2.6428225	down	XM_001053966	Arhgap30	498282
3.1895685	down	NM_144740	Arhgap4	246249
19.35832	down	XM_001061568	Arhgdig	360500
3.1870332	down	NM_001013246	Arhgef12	367072
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2.9885247	down	XM_001073085	Arhgef5	140898
2.0587955	down	XM_001055321	Arl13b	304037
10.047133	down	NM_212459	Arl9	289565
5.378963	down	XM_001060650	Armc10	296758
10.187062	down	XM_001071122	Armc6	306352
2.7928028	down	NM_001024367	Armcx1	501619
5.9338946	down	XM_001055969	Arrdc5	680452
6.135757	down	NM_001047885	Arse	310326
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3.8399632	down	XM_001081507	Asb16	498005
3.4502347	down	NM_017189	Asgr2	29403
14.278155	down	NM_144750	Aspg	246266
2.6322587	down	XM_001076577	Aspscr1	691026
5.841935	down	XM_230576	Astl	296129
3.8673043	down	XM_001068889	Atf7	315333
3.97827	down	NM_001038495	Atg12	361321
5.221645	down	NM_001012097	Atg7	312647
17.100565	down	NM_012508	Atp2b2	24215
2.6352043	down	XM_001055453	Atp6v1e2	366545
14.861855	down	XM_223390	Atp8a1	289615
2.4407587	down	NM_021702	Atxn3	60331
2.803544	down	XM_228583	Awat2	302425
4.364897	down	NM_024355	Axin2	29134
2.7616425	down	XM_001081778	Azi1	360672
7.1085277	down	XM_001057849	B3galt1	366064
3.1598358	down	XM_001069916	B3gnt8	308440
2.7924328	down	XM_342584	B4galt5	362275

4.198874	down	NM_001031661	B4galt7	364675
7.328861	down	NM_017300	Baat	29725
28.818754	down	XM_001062170	Bai2	313058
14.831034	down	NM_022300	Baspl	64160
3.9635012	down	XM_341141	Bat2d1	360865
5.6085877	down	XM_001057854	Batf	299206
9.944945	down	XM_001071505	Batf2	309178
13.840635	down	NM_021865	Batf3	60462
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5.4291697	down	NM_173837	Bbc3	317673
2.5914855	down	XM_001063816	Bcdin3d	363001
17.71974	down	XM_001057750	Bcl11a	305589
2.3395865	down	NM_016993	Bcl2	24224
2.8451672	down	NM_001033670	Bcl2l1	24888
9.782247	down	NM_021850	Bcl2l2	60434
3.1659358	down	XM_001057993	Bcl3	680611
9.285501	down	XM_001059897	Bend4	681008
3.2299335	down	NM_001033674	Bicd2	306809
7.715339	down	NM_001012223	Bin2	366988
2.217785	down	XM_001070524	Bmp1	83470
8.168703	down	XM_001053727	Bmp7	85272
15.872786	down	XM_001057343	Bms1	362426
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2.4397054	down	XM_001073216	Bola2	503208
2.086543	down	XM_001063756	Bpil1	296290
2.7178984	down	XM_343175	Brd4	362844
13.045282	down	XM_001078549	Brpf3	309647
3.3811467	down	XM_001071463	Brsk1	499073
15.5344515	down	XM_001075067	Bruno16	300758
21.868116	down	XM_001061326	Bsdc1	297890
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16.616453	down	XM_001059843	C1qtnf3	294806
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24.08758	down	NM_001012054	Calml3	307100
3.163344	down	NM_138915	Caly	192349
2.531107	down	NM_021678	Camk2n2	59314
2.3052492	down	NM_022383	Cap1	64185
3.0062163	down	NM_001013086	Capg	297339
6.255817	down	NM_031673	Capn10	63834
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2.550848	down	NM_001034088	Carm1	363026
3.453919	down	NM_080690	Caskin1	140722
2.3775387	down	XM_001053920	Cass4	296409
10.116476	down	XM_342941	Catsper4	362623
2.3599904	down	XM_001055098	Cbr3	304078
2.8799236	down	NM_001008313	Cbx3	297093
17.530815	down	XM_001081757	Cbx4	501403
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10.598474	down	XM_001062881	Ccdc121	289329
3.1429257	down	XM_574843	Ccdc125	499518
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9.610928	down	NM_001038992	Ccdc23	362578
13.258381	down	NM_001014091	Ccdc33	315712
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36.836327	down	XM_001064144	Cd209b	288378
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12.53164	down	NM_001025111	Cd300lf	287818
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2.639215	down	NM_175577	Cd6	25752
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6.864637	down	NM_012525	Cgm4	24257
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17.673725	down	NM_021655	Chga	24258
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4.1265473	down	NM_001079689	Chit1	289032
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3.3441768	down	NM_032084	Chn2	84031
78.549614	down	XM_001079984	Chpt1	362866
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6.53576	down	XM_001076412	Chtf8	364996
2.8402138	down	XM_001073489	Ckap2	306575
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7.747135	down	XM_001054648	Cldn20	680178
12.569667	down	XM_001059255	Cldn22	306454
8.655304	down	NM_001033062	Cldn23	290789
8.2770605	down	NM_001012022	Cldn4	304407
29.033245	down	NM_031702	Cldn7	65132
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17.26512	down	NM_130402	Clec2d	113937
6.0351114	down	NM_001048075	Clec2g	362447
2.595619	down	NM_001005891	Clec4a3	362431
7.483139	down	XM_578404	Clec7a	502902

26.640688	down	NM_001013080	Clic3	296566
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2.0260732	down	NM_001006971	Cln3	293485
3.1252105	down	NM_013139	Clps	25680
19.633879	down	NM_001029914	Cmtm1	291823
2.22543	down	NM_001013142	Cmtm2a	307616
2.0914018	down	XM_001056147	Cmtm5	290214
5.28338	down	NM_053495	Cnga3	85257
6.1246114	down	NM_021686	Cnksr2	59322
2.2467544	down	NM_001012061	Cnksr3	308113
4.5457454	down	XM_001066271	Cnot3	308311
2.9730325	down	XM_341191	Cnot6l	360917
4.44901	down	NM_057118	Cntn1	117258
2.3424609	down	NM_012884	Cntn2	25356
18.951796	down	NM_013225	Cntn6	27256
2.7775228	down	XM_001076244	Cntnap4	307865
4.8578253	down	NM_001033889	Cog7	293456
2.3890898	down	XM_243912	Col12a1	25683
2.394312	down	XM_001056763	Col13a1	499431
4.2460704	down	XM_001062408	Col16a1	366474
8.815141	down	XM_001072793	Col22a1	315071
13.7988405	down	NM_181636	Col23a1	353303
8.480946	down	NM_198747	Col27a1	298101
3.6075737	down	NM_012929	Col2a1	25412
15.433117	down	XM_001053671	Col9a2	362584
24.587725	down	XM_001059028	Col9a3	362285
16.656199	down	XM_343396	Commd4	363068
2.6126611	down	NM_139108	Commd5	245974
3.0060852	down	NM_012834	Comp	25304
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5.651601	down	NM_001009671	Coq10b	301416
2.3028634	down	NM_053472	Cox4i2	84683
2.5616982	down	XM_001078870	Cp110	361634
3.0749836	down	NM_001013083	Cpa2	296959
2.7477913	down	XM_001074218	Cpe	25669
30.111963	down	NM_022864	Cplx1	64832
5.5099325	down	XM_001071808	Cplx3	501005
8.040199	down	XM_001080977	Cpm	314855
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6.4978766	down	XM_001061350	Hist1h2ai	502129
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3.169988	down	XM_001058007	Hist1h2ak	680615
2.9854267	down	XM_001061635	Hist1h2an	306970
5.1272893	down	XM_001061734	Hist1h2ao	364723
2.9052703	down	XM_001057941	Hist1h3g	680599
3.1353414	down	NM_022686	Hist1h4b	64627
2.13909	down	XM_001061900	Hist1h4m	291152
2.664784	down	XM_001061850	Hist2h2ac	499675
4.083617	down	XM_001059351	Hist2h2bb	295278
5.8065324	down	XM_001055051	Hist2h3c	679950
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13.833487	down	NM_021840	Hist3h2a	64646
18.815746	down	XM_001053243	Hivep3	313557
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35.717987	down	NM_133621	Hopx	171160
23.526966	down	XM_575481	Hoxa13	500129
8.756385	down	NM_012581	Hoxa2	24452
8.719842	down	XM_220896	Hoxb1	303491
3.1937227	down	XM_001081336	Hoxb13	303480
3.1062312	down	XM_001081342	Hoxb3	303488
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2.5927312	down	XM_235702	Hoxc5	315341
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4.8949127	down	XM_213633	Hoxd3	288152
35.720997	down	NM_017122	Hpca	29177
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3.3249786	down	XM_001061473	Hs3st5	294449
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2.9235086	down	NM_001009684	Hsd17b13	305150
2.7145605	down	XM_001079257	Hsf2bp	499413
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4.2510934	down	NM_001004274	Igfbp4	360622
13.636884	down	XM_341798	Igfl3	361516
4.242663	down	NM_001013945	Ighg	299354
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3.2077398	down	XM_227520	Igsf3	295325
3.05018	down	XM_001058036	Ikbke	363984
3.4619627	down	NM_199103	Ikbkg	309295
6.1711802	down	XM_001054364	Ikzf2	301476
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2.529716	down	XM_001077066	Il1f8	362076
3.0684068	down	NM_012968	Il1rap	25466
2.3235013	down	NM_177935	Il1rapl1	317553
2.6115758	down	NM_053836	Il2	116562
4.1228843	down	XM_001060362	Il20	681112
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3.9978495	down	XM_001067002	Ints7	289382

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3.8101485	down	NM_032074	Irs3	84021
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2.587284	down	XM_001061997	Irx3	307721
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13.146506	down	XM_001073723	Kif23	315740
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73.80514	down	XM_001065571	LOC298820	298820
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34.306293	down	XM_229292	LOC301816	301816
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79.447174	down	XM_229488	LOC316919	316919
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18.9407	down	XM_229508	LOC316933	316933
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68.19827	down	XM_343727	LOC363397	363397
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67.35839	down	XM_343747	LOC363424	363424
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63.389614	down	XM_001078369	LOC367377	367377
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77.51499	down	XM_001079520	LOC498446	498446
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59.060158	down	XM_576781	LOC501368	501368
97.2149	down	XM_576782	LOC501369	501369
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36.56026	down	XM_576790	LOC501377	501377
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59.38656	down	XM_001055748	LOC680106	680106
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76.2912	down	XM_001055864	LOC680136	680136

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82.19893	down	XM_001056044	LOC680185	680185
10.662138	down	XM_001056059	LOC680187	680187
27.711058	down	XM_001056064	LOC680189	680189
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34.885777	down	XM_001056098	LOC680198	680198
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3.6606913	down	XM_001056138	LOC680214	680214
5.2112	down	NM_001047974	LOC680227	680227
58.505043	down	XM_001056223	LOC680228	680228
58.89355	down	XM_001056232	LOC680230	680230
16.246264	down	XM_001056253	LOC680235	680235
24.489313	down	XM_001056256	LOC680236	680236
85.020676	down	XM_001056284	LOC680239	680239
13.598194	down	XM_001056294	LOC680242	680242
25.640368	down	XM_001056352	LOC680255	680255
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17.038364	down	XM_001056408	LOC680272	680272
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16.525328	down	XM_001056418	LOC680277	680277
42.81023	down	XM_001056442	LOC680281	680281
7.020464	down	XM_001056463	LOC680286	680286
4.099851	down	XM_001056561	LOC680307	680307
13.607326	down	XM_001056586	LOC680310	680310
43.605404	down	XM_001056624	LOC680318	680318
65.68631	down	XM_001056660	LOC680323	680323
35.43944	down	XM_001056676	LOC680326	680326
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15.961326	down	XM_001056719	LOC680334	680334
17.303646	down	XM_001056741	LOC680340	680340
24.473867	down	XM_001056745	LOC680341	680341
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38.578426	down	XM_001056978	LOC680387	680387
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13.160196	down	XM_001057041	LOC680400	680400
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63.904415	down	XM_001053549	LOC680453	680453
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85.79768	down	XM_001057350	LOC680475	680475
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31.258053	down	XM_001058989	LOC680812	680812
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19.63454	down	XM_001059315	LOC680886	680886
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22.32287	down	XM_001057692	LOC680905	680905
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37.303253	down	XM_001059478	LOC680922	680922
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26.54648	down	XM_001059609	LOC680950	680950
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39.89092	down	XM_001060083	LOC681047	681047
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33.718067	down	XM_001060188	LOC681071	681071
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41.2691	down	XM_001060374	LOC681115	681115
19.733124	down	XM_001060390	LOC681122	681122
43.973003	down	XM_001060454	LOC681139	681139
8.067282	down	XM_001060483	LOC681146	681146
8.245278	down	XM_001060506	LOC681150	681150
68.96246	down	XM_001060513	LOC681151	681151
11.217131	down	XM_001060545	LOC681154	681154
19.82939	down	XM_001060556	LOC681160	681160
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43.78994	down	XM_001060628	LOC681176	681176
37.22562	down	XM_001059937	LOC681180	681180
39.10162	down	XM_001060675	LOC681187	681187
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34.52686	down	XM_001060797	LOC681220	681220
39.78892	down	XM_001060840	LOC681228	681228
42.607918	down	XM_001060847	LOC681230	681230
9.595362	down	XM_001060874	LOC681237	681237
38.742893	down	XM_001060969	LOC681259	681259
7.552107	down	XM_001061032	LOC681275	681275
46.330284	down	XM_001061073	LOC681283	681283
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54.47687	down	XM_001061128	LOC681299	681299
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39.494003	down	XM_001061298	LOC681333	681333
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4.68253	down	XM_001056910	LOC681457	681457
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4.439578	down	XM_001057732	LOC681643	681643
5.622571	down	XM_001057737	LOC681644	681644
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60.799988	down	XM_001058241	LOC681743	681743
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57.75536	down	XM_001058327	LOC681766	681766
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7.967875	down	XM_001059190	LOC681979	681979
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2.7057428	down	XM_001059486	LOC682033	682033
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23.11028	down	XM_001059537	LOC682041	682041
5.867802	down	XM_001059739	LOC682078	682078
18.866392	down	XM_001059853	LOC682102	682102
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56.777546	down	XM_001060373	LOC682199	682199
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70.90834	down	XM_001060443	LOC682210	682210
9.913683	down	XM_001060490	LOC682216	682216
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11.509122	down	XM_001060538	LOC682226	682226
37.326847	down	XM_001060609	LOC682238	682238
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33.190823	down	XM_001060854	LOC682289	682289
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43.040382	down	XM_001060950	LOC682310	682310
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47.81573	down	XM_001062011	LOC682556	682556
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29.587152	down	XM_001062253	LOC682603	682603
38.923714	down	XM_001062440	LOC682639	682639
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7.9182744	down	XM_001062486	LOC682649	682649
4.881095	down	XM_001062593	LOC682679	682679
30.80606	down	XM_001062679	LOC682695	682695
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33.05187	down	XM_001062715	LOC682701	682701
6.977499	down	XM_001062737	LOC682706	682706
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7.001122	down	XM_001062944	LOC682757	682757
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2.3642352	down	XM_001063068	LOC682778	682778
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7.818471	down	XM_001063184	LOC682803	682803
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37.774178	down	XM_001063448	LOC682859	682859
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36.393497	down	XM_001063558	LOC682885	682885
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5.3663554	down	XM_001061259	LOC682937	682937
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10.168259	down	XM_001063846	LOC682956	682956
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14.833642	down	XM_001063891	LOC682966	682966
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47.96582	down	XM_001064818	LOC683184	683184
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12.815384	down	XM_001064973	LOC683221	683221
2.9230266	down	XM_001064980	LOC683223	683223
56.90545	down	XM_001065020	LOC683233	683233
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10.347362	down	XM_001065424	LOC683324	683324
2.0923808	down	XM_001065432	LOC683326	683326
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100.02085	down	XM_001065651	LOC683369	683369
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23.033321	down	XM_001066162	LOC683490	683490
113.04247	down	XM_001066243	LOC683507	683507
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3.9518266	down	XM_001066476	LOC683548	683548
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5.49478	down	XM_001066537	LOC683564	683564
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27.647558	down	XM_001066697	LOC683601	683601
13.337028	down	XM_001066822	LOC683633	683633
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9.775224	down	XM_001067774	LOC683855	683855
23.879774	down	XM_001067816	LOC683865	683865
57.00516	down	XM_001067901	LOC683878	683878
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72.11933	down	XM_001068139	LOC683944	683944
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43.155766	down	XM_001068219	LOC683958	683958
5.4214354	down	XM_001068242	LOC683965	683965
27.733185	down	XM_001068264	LOC683970	683970
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39.369003	down	XM_001068387	LOC683992	683992
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31.072342	down	XM_001068852	LOC684083	684083
43.43878	down	XM_001068871	LOC684087	684087
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20.854448	down	XM_001069018	LOC684119	684119
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34.748844	down	XM_001069050	LOC684128	684128
31.510792	down	XM_001069080	LOC684134	684134
11.799877	down	XM_001069099	LOC684138	684138
14.921711	down	XM_001069294	LOC684180	684180
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12.459144	down	XM_001069434	LOC684215	684215
13.299426	down	XM_001069592	LOC684254	684254
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67.63424	down	XM_001069803	LOC684306	684306
84.69002	down	XM_001069913	LOC684337	684337
16.190151	down	XM_001070181	LOC684393	684393
35.31649	down	XM_001070572	LOC684471	684471
75.3441	down	XM_001070790	LOC684515	684515

4.1310687	down	XM_001070830	LOC684525	684525
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2.1879547	down	XM_001070960	LOC684556	684556
20.108915	down	XM_001070974	LOC684559	684559
38.101532	down	XM_001071070	LOC684575	684575
45.4884	down	XM_001071142	LOC684587	684587
6.764408	down	XM_001071212	LOC684605	684605
37.83255	down	XM_001071307	LOC684627	684627
84.88739	down	XM_001055278	LOC684652	684652
10.947163	down	XM_001071489	LOC684660	684660
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49.30169	down	XM_001071663	LOC684706	684706
2.4317136	down	XM_001071688	LOC684715	684715
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65.99255	down	XM_001071746	LOC684725	684725
14.090421	down	XM_001071766	LOC684730	684730
60.237682	down	XM_001071819	LOC684746	684746
5.7560277	down	XM_001071837	LOC684753	684753
13.760056	down	XM_001071876	LOC684769	684769
16.058575	down	XM_001071887	LOC684773	684773
30.943558	down	XM_001071888	LOC684774	684774
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66.17719	down	XM_001071914	LOC684779	684779
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6.0569754	down	XM_001071973	LOC684798	684798
36.072422	down	XM_001072000	LOC684803	684803
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50.601326	down	XM_001072070	LOC684824	684824
60.95214	down	XM_001072084	LOC684827	684827
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44.89923	down	XM_001072117	LOC684833	684833
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17.18831	down	XM_001072184	LOC684850	684850
15.348039	down	XM_001072236	LOC684864	684864
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7.9215126	down	XM_001072267	LOC684872	684872
12.434995	down	XM_001072294	LOC684879	684879
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17.821451	down	XM_001062130	LOC685064	685064
46.20162	down	XM_001062150	LOC685071	685071
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7.992132	down	XM_001062252	LOC685089	685089
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46.46998	down	XM_001062892	LOC685226	685226
12.612435	down	XM_001062910	LOC685231	685231
31.001274	down	XM_001062972	LOC685242	685242
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27.31596	down	XM_001063120	LOC685275	685275
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55.32943	down	XM_001057314	LOC685300	685300

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43.74813	down	XM_001063442	LOC685349	685349
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63.550095	down	XM_001063513	LOC685369	685369
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44.309963	down	XM_001063548	LOC685377	685377
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33.09599	down	XM_001063692	LOC685411	685411
21.525541	down	XM_001063696	LOC685414	685414
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10.3155775	down	XM_001063765	LOC685428	685428
46.817806	down	XM_001063769	LOC685429	685429
67.85382	down	XM_001057638	LOC685435	685435
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64.71326	down	XM_001063799	LOC685442	685442
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47.909035	down	XM_001063877	LOC685459	685459
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23.41377	down	XM_001063912	LOC685469	685469
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36.530582	down	XM_001064025	LOC685493	685493
5.663477	down	XM_001064032	LOC685494	685494
40.512356	down	XM_001064038	LOC685496	685496
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18.546452	down	XM_001064061	LOC685503	685503
32.8828	down	XM_001064084	LOC685509	685509

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38.305103	down	XM_001064312	LOC685563	685563
49.69571	down	XM_001064363	LOC685573	685573
4.122992	down	XM_001064431	LOC685585	685585
41.25857	down	XM_001064447	LOC685593	685593
15.639191	down	XM_001054124	LOC685594	685594
3.814826	down	XM_001064471	LOC685597	685597
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23.885727	down	XM_001064502	LOC685604	685604
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37.138332	down	XM_001064543	LOC685617	685617
13.182072	down	XM_001064598	LOC685632	685632
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13.74766	down	XM_001064652	LOC685645	685645
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16.755354	down	XM_001064718	LOC685663	685663
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34.965855	down	XM_001064760	LOC685668	685668
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42.787697	down	XM_001064972	LOC685717	685717
9.668001	down	XM_001064987	LOC685720	685720
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92.38186	down	XM_001065049	LOC685735	685735
13.931398	down	XM_001065085	LOC685742	685742
13.955427	down	XM_001065090	LOC685743	685743
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70.23497	down	XM_001065161	LOC685760	685760
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6.110524	down	XM_001065185	LOC685767	685767
83.57015	down	XM_001065189	LOC685769	685769
86.86864	down	XM_001065214	LOC685773	685773
75.26684	down	XM_001057991	LOC685779	685779
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43.42222	down	XM_001065272	LOC685786	685786
55.68025	down	XM_217497	LOC685792	685792
51.987514	down	XM_001065304	LOC685796	685796

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79.488884	down	XM_001065446	LOC685835	685835
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43.07952	down	XM_001065537	LOC685863	685863
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15.318807	down	XM_001062645	LOC685888	685888
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31.154621	down	XM_001065677	LOC685898	685898
31.021404	down	XM_001065688	LOC685901	685901
34.73897	down	XM_001065695	LOC685904	685904
78.72594	down	XM_001065708	LOC685905	685905
45.658836	down	XM_001065719	LOC685908	685908
17.570324	down	XM_001065720	LOC685909	685909
66.03406	down	XM_001065748	LOC685918	685918
26.496717	down	XM_001065784	LOC685926	685926
45.767227	down	XM_001065801	LOC685929	685929
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40.034256	down	XM_001065901	LOC685948	685948
56.816067	down	XM_001065963	LOC685965	685965
65.72191	down	XM_001065967	LOC685966	685966
53.928425	down	XM_001065995	LOC685968	685968
38.731716	down	XM_001066016	LOC685974	685974
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79.83359	down	XM_001066192	LOC686017	686017
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18.76002	down	XM_001066280	LOC686036	686036

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88.00687	down	XM_001066356	LOC686053	686053
45.30945	down	XM_001066372	LOC686058	686058
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8.502085	down	XM_001066582	LOC686113	686113
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68.05165	down	XM_001066623	LOC686126	686126
97.32427	down	XM_001066636	LOC686130	686130
53.660427	down	XM_001066637	LOC686131	686131
49.043133	down	XM_001066652	LOC686135	686135
86.87125	down	XM_001066658	LOC686138	686138
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59.867725	down	XM_001066698	LOC686147	686147
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29.625914	down	XM_001072725	LOC686165	686165
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23.536821	down	XM_001073195	LOC686269	686269
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19.057858	down	XM_001073908	LOC686388	686388
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25.4857	down	XM_001075726	LOC686784	686784
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9.799984	down	XM_001077230	LOC687143	687143
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23.146046	down	XM_001078536	LOC687434	687434
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14.257421	down	XM_001078905	LOC687517	687517
39.02891	down	XM_001079008	LOC687537	687537
80.073616	down	XM_001079048	LOC687546	687546
43.370266	down	XM_001079078	LOC687553	687553
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36.069107	down	XM_001079213	LOC687577	687577
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10.323531	down	XM_001079481	LOC687638	687638
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17.630638	down	XM_001079501	LOC687643	687643
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48.335884	down	XM_001079569	LOC687652	687652
24.37251	down	XM_001079681	LOC687675	687675
84.44011	down	XM_001079796	LOC687695	687695

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2.7317758	down	XM_001079932	LOC687726	687726
47.486393	down	XM_001079968	LOC687736	687736
28.73535	down	XM_001079985	LOC687742	687742
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4.2066255	down	XM_001080031	LOC687759	687759
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5.45598	down	XM_001080173	LOC687793	687793
7.7819366	down	XM_001080273	LOC687827	687827
2.4385412	down	XM_001080339	LOC687849	687849
3.8105552	down	XM_001080355	LOC687853	687853
3.3205252	down	XM_001080410	LOC687866	687866
67.74615	down	XM_001080491	LOC687900	687900
14.155491	down	XM_001080548	LOC687915	687915
28.210934	down	XM_001080561	LOC687920	687920
43.752308	down	XM_001080585	LOC687929	687929
65.63802	down	XM_001080588	LOC687931	687931
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32.060017	down	XM_001080671	LOC687961	687961
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11.156057	down	XM_001080743	LOC687980	687980
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3.56501	down	XM_001080827	LOC687999	687999
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16.333685	down	XM_001080957	LOC688040	688040
5.8442545	down	XM_001080989	LOC688054	688054
32.86658	down	XM_001080993	LOC688055	688055
43.82072	down	XM_001081032	LOC688068	688068
25.312422	down	XM_001081035	LOC688069	688069
13.189616	down	XM_001081064	LOC688077	688077
48.839493	down	XM_001081092	LOC688091	688091
4.61995	down	XM_001081134	LOC688099	688099
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23.833055	down	XM_001081232	LOC688127	688127
42.923676	down	XM_001081282	LOC688143	688143
80.45909	down	XM_001081341	LOC688160	688160
44.00499	down	XM_001081359	LOC688164	688164

70.94897	down	XM_001081391	LOC688172	688172
57.32129	down	XM_001081397	LOC688175	688175
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44.21674	down	XM_001081419	LOC688178	688178
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5.62864	down	XM_001081872	LOC688345	688345
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52.18425	down	XM_001081935	LOC688377	688377
13.163729	down	XM_001081936	LOC688378	688378
13.993079	down	XM_001081939	LOC688379	688379
4.6552916	down	XM_001081946	LOC688383	688383
40.969944	down	XM_001081948	LOC688384	688384
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76.661674	down	XM_001066775	LOC688399	688399
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79.652885	down	XM_001066895	LOC688428	688428
32.495083	down	XM_001066911	LOC688431	688431
96.59045	down	XM_001066958	LOC688441	688441

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13.857585	down	XM_001067095	LOC688474	688474
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39.157322	down	XM_001067133	LOC688487	688487
31.736286	down	XM_001067146	LOC688490	688490
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69.553696	down	XM_001067241	LOC688519	688519
38.537598	down	XM_001067313	LOC688532	688532
80.8906	down	XM_001067327	LOC688538	688538
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23.25279	down	XM_001067410	LOC688558	688558
46.142178	down	XM_001067419	LOC688560	688560
13.066677	down	XM_001067468	LOC688570	688570
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87.587	down	XM_001067520	LOC688587	688587
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7.0865726	down	XM_001067543	LOC688595	688595
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74.05528	down	XM_001067734	LOC688644	688644
71.05983	down	XM_001058542	LOC688649	688649
37.31683	down	XM_001067766	LOC688653	688653
10.388799	down	XM_001067791	LOC688661	688661
70.06719	down	XM_001067795	LOC688663	688663
23.790619	down	XM_001067801	LOC688665	688665
43.19191	down	XM_001067832	LOC688670	688670
19.547953	down	XM_001067851	LOC688676	688676
31.932772	down	XM_001067853	LOC688678	688678
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21.583681	down	XM_001067922	LOC688690	688690
27.919575	down	XM_001068044	LOC688720	688720
45.851093	down	XM_001068087	LOC688732	688732
14.258763	down	XM_001068112	LOC688741	688741

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10.42045	down	XM_001068255	LOC688779	688779
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27.392838	down	XM_001068318	LOC688793	688793
53.065243	down	XM_001068328	LOC688797	688797
23.657476	down	XM_001068329	LOC688798	688798
5.4748063	down	XM_001068361	LOC688801	688801
26.791508	down	XM_001068371	LOC688803	688803
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31.928793	down	XM_001068465	LOC688825	688825
56.39267	down	XM_001068481	LOC688831	688831
6.118022	down	XM_001068517	LOC688838	688838
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39.78659	down	XM_001068669	LOC688874	688874
10.792433	down	XM_001068681	LOC688876	688876
38.05601	down	XM_001068684	LOC688878	688878
38.796944	down	XM_001068707	LOC688888	688888
48.16997	down	XM_001068717	LOC688892	688892
68.15046	down	XM_001068783	LOC688909	688909
7.398708	down	XM_001068798	LOC688910	688910
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49.0023	down	XM_001068891	LOC688935	688935
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15.430796	down	XM_001068909	LOC688943	688943
34.333633	down	XM_001068932	LOC688946	688946
5.1082225	down	XM_001068947	LOC688950	688950
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6.2713895	down	XM_001068968	LOC688956	688956
73.96106	down	XM_001068988	LOC688964	688964
61.274517	down	XM_001069010	LOC688970	688970
4.891471	down	XM_001069014	LOC688972	688972
9.752943	down	XM_001069020	LOC688974	688974
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39.191246	down	XM_001069111	LOC688997	688997
74.38186	down	XM_001069134	LOC689001	689001
95.20825	down	XM_001069178	LOC689016	689016
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44.216347	down	XM_001069258	LOC689032	689032
16.989187	down	XM_001069291	LOC689039	689039
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7.8912024	down	XM_001069310	LOC689044	689044

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29.919302	down	XM_001069432	LOC689080	689080
48.09105	down	XM_001069448	LOC689083	689083
55.55339	down	XM_001058891	LOC689084	689084
27.279474	down	XM_001069469	LOC689086	689086
59.21226	down	XM_001069491	LOC689091	689091
73.82856	down	XM_001058953	LOC689094	689094
11.813415	down	XM_001069508	LOC689096	689096
87.5874	down	XM_001069556	LOC689107	689107
3.120316	down	XM_001058170	LOC689117	689117
8.318963	down	XM_001069594	LOC689119	689119
20.270517	down	XM_001069609	LOC689122	689122
56.45022	down	XM_001069621	LOC689124	689124
7.6265583	down	XM_001069645	LOC689128	689128
14.618992	down	XM_001069647	LOC689129	689129
6.8342557	down	XM_001069692	LOC689136	689136
14.4876375	down	XM_001069703	LOC689138	689138
98.24171	down	XM_001069756	LOC689150	689150
4.070094	down	XM_001069768	LOC689154	689154
29.900648	down	XM_001069824	LOC689169	689169
31.928625	down	XM_001069867	LOC689177	689177
34.86194	down	XM_001069895	LOC689182	689182
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95.62068	down	XM_001069934	LOC689193	689193
68.96887	down	XM_001069974	LOC689206	689206
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56.7401	down	XM_001070040	LOC689225	689225
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4.42432	down	XM_001070134	LOC689254	689254
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71.9342	down	XM_001070438	LOC689338	689338
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67.360176	down	XM_001070459	LOC689342	689342
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43.228683	down	XM_001070630	LOC689392	689392
74.06037	down	XM_001070689	LOC689410	689410
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44.41565	down	XM_001070788	LOC689435	689435
5.305113	down	XM_001070789	LOC689436	689436
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71.92005	down	XM_001070864	LOC689453	689453
6.2712693	down	XM_001070885	LOC689458	689458
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35.861298	down	XM_001070949	LOC689479	689479
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13.199415	down	XM_001071008	LOC689503	689503
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33.876106	down	XM_001071251	LOC689579	689579
7.5421367	down	XM_001071303	LOC689596	689596
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69.45555	down	XM_001055155	LOC689667	689667
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59.795033	down	XM_001055335	LOC689690	689690
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53.69142	down	XM_001071797	LOC689727	689727
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63.34113	down	XM_001071912	LOC689762	689762
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55.419296	down	XM_001071950	LOC689774	689774

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6.061954	down	XM_001072162	LOC689826	689826
90.54743	down	XM_001072168	LOC689827	689827
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47.794415	down	XM_001072212	LOC689837	689837
45.95997	down	XM_001072245	LOC689846	689846
69.14601	down	XM_001072263	LOC689850	689850
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61.261154	down	XM_001072303	LOC689861	689861
17.519491	down	XM_001072316	LOC689867	689867
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79.507645	down	XM_001072354	LOC689878	689878
9.262281	down	XM_001072387	LOC689887	689887
11.132057	down	XM_001072398	LOC689889	689889
55.985287	down	XM_001072467	LOC689905	689905
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29.075815	down	XM_001069035	LOC689927	689927
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81.2311	down	XM_001072652	LOC689948	689948
100.56399	down	XM_001072684	LOC689957	689957
39.431202	down	XM_001072685	LOC689958	689958
2.1264973	down	XM_001072700	LOC689962	689962
22.069115	down	XM_001069365	LOC689992	689992
6.4558587	down	XM_001072851	LOC689996	689996
76.59611	down	XM_001072858	LOC689999	689999
33.332264	down	XM_001072899	LOC690010	690010
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51.922054	down	XM_001073001	LOC690039	690039
3.0701487	down	XM_001073002	LOC690040	690040
39.797535	down	XM_001060929	LOC690042	690042
50.486305	down	XM_001073030	LOC690048	690048
63.048943	down	XM_001073060	LOC690054	690054
77.08811	down	XM_001073094	LOC690061	690061
22.941032	down	XM_001073109	LOC690062	690062

9.110562	down	XM_001073156	LOC690075	690075
65.59103	down	XM_001073178	LOC690081	690081
29.312374	down	XM_001073200	LOC690086	690086
4.177639	down	XM_001073272	LOC690103	690103
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6.608111	down	XM_001073355	LOC690124	690124
5.950752	down	XM_001073389	LOC690130	690130
75.91696	down	XM_001073403	LOC690135	690135
5.384746	down	XM_001073439	LOC690142	690142
56.368576	down	XM_001073445	LOC690145	690145
2.3823717	down	XM_001073454	LOC690146	690146
14.980081	down	XM_001073480	LOC690152	690152
84.295166	down	XM_001073536	LOC690167	690167
36.300682	down	XM_001073545	LOC690170	690170
5.0815334	down	XM_001073557	LOC690175	690175
68.29658	down	XM_001073570	LOC690179	690179
12.807584	down	XM_001073351	LOC690190	690190
13.159766	down	XM_001073728	LOC690222	690222
60.99428	down	XM_001073746	LOC690228	690228
45.236366	down	XM_001073844	LOC690250	690250
11.418671	down	XM_001073870	LOC690256	690256
7.961515	down	XM_001073924	LOC690268	690268
31.929342	down	XM_001073925	LOC690269	690269
9.984599	down	XM_001073928	LOC690270	690270
2.0771432	down	XM_001073940	LOC690274	690274
6.8605156	down	XM_001073943	LOC690276	690276
16.301693	down	XM_001073947	LOC690279	690279
39.803192	down	XM_001073950	LOC690280	690280
56.849464	down	XM_001073951	LOC690281	690281
9.533491	down	XM_001073960	LOC690284	690284
34.268444	down	XM_001073964	LOC690286	690286
106.25849	down	XM_001073967	LOC690288	690288
45.510067	down	XM_001074009	LOC690298	690298
91.75664	down	XM_001074152	LOC690341	690341
2.7730932	down	XM_001074160	LOC690343	690343
15.843454	down	XM_001074223	LOC690358	690358
60.898296	down	XM_001074232	LOC690362	690362
26.076832	down	XM_001074233	LOC690363	690363
5.3599825	down	XM_001074272	LOC690375	690375
78.10928	down	XM_001074284	LOC690379	690379
93.617294	down	XM_001074306	LOC690389	690389
47.686047	down	XM_001074324	LOC690395	690395
32.675297	down	XM_001074336	LOC690398	690398
41.45548	down	XM_001074345	LOC690400	690400

29.609497	down	XM_001074375	LOC690411	690411
3.4324386	down	XM_001074383	LOC690413	690413
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8.469469	down	XM_001072906	LOC690422	690422
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53.562794	down	XM_001074433	LOC690429	690429
36.184643	down	XM_001074447	LOC690431	690431
94.892494	down	XM_001074459	LOC690439	690439
27.948122	down	XM_001074463	LOC690440	690440
36.11994	down	XM_001074469	LOC690443	690443
22.524773	down	XM_001074472	LOC690445	690445
46.92399	down	XM_001074473	LOC690446	690446
30.14306	down	XM_001074476	LOC690447	690447
25.981474	down	XM_001074485	LOC690452	690452
17.335434	down	XM_001074496	LOC690456	690456
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14.076051	down	XM_001074502	LOC690459	690459
16.643557	down	XM_001074509	LOC690463	690463
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41.883675	down	XM_001074534	LOC690469	690469
39.310677	down	XM_001074545	LOC690474	690474
9.484367	down	XM_001074554	LOC690476	690476
6.0076137	down	XM_001074561	LOC690479	690479
19.041714	down	XM_001074567	LOC690482	690482
46.084126	down	XM_001074598	LOC690490	690490
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78.66861	down	XM_001074680	LOC690523	690523
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59.04349	down	XM_001074751	LOC690542	690542
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82.36319	down	XM_001074825	LOC690565	690565
13.188784	down	XM_001074841	LOC690570	690570
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8.653634	down	XM_001074983	LOC690618	690618
54.71622	down	XM_001074985	LOC690619	690619
55.510864	down	XM_001075002	LOC690624	690624
45.776123	down	XM_001075006	LOC690626	690626
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39.459476	down	XM_001075028	LOC690631	690631
58.965015	down	XM_001075069	LOC690643	690643
4.318817	down	XM_001075079	LOC690647	690647

85.93601	down	XM_001075121	LOC690659	690659
5.4325027	down	XM_001075132	LOC690662	690662
32.423172	down	XM_001062005	LOC690665	690665
43.2316	down	XM_001075149	LOC690667	690667
41.409504	down	XM_001075162	LOC690672	690672
13.380032	down	XM_001075204	LOC690684	690684
4.9970126	down	XM_001075254	LOC690694	690694
42.56233	down	XM_001075284	LOC690700	690700
15.12907	down	XM_001075303	LOC690707	690707
3.159078	down	XM_001075349	LOC690717	690717
10.823107	down	XM_001075359	LOC690719	690719
57.9827	down	XM_001075363	LOC690721	690721
45.99255	down	XM_001075438	LOC690739	690739
36.282738	down	XM_001075453	LOC690741	690741
6.598037	down	XM_001075478	LOC690744	690744
60.634247	down	XM_001075495	LOC690748	690748
5.8673716	down	XM_001075530	LOC690761	690761
63.35939	down	XM_001075604	LOC690782	690782
51.18491	down	XM_001075660	LOC690798	690798
9.872211	down	XM_001075714	LOC690811	690811
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69.61183	down	XM_001075749	LOC690822	690822
49.965847	down	XM_001075795	LOC690828	690828
35.58312	down	XM_001075885	LOC690854	690854
67.78772	down	XM_001075892	LOC690855	690855
36.393307	down	XM_001075910	LOC690860	690860
2.2146409	down	XM_001075927	LOC690864	690864
79.00221	down	XM_001075937	LOC690867	690867
2.0562112	down	XM_001075950	LOC690871	690871
81.406235	down	XM_001075967	LOC690874	690874
5.3230686	down	XM_001076026	LOC690885	690885
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66.34819	down	XM_001076048	LOC690892	690892
57.23547	down	XM_001076066	LOC690896	690896
36.398132	down	XM_001076113	LOC690910	690910
55.471836	down	XM_001076169	LOC690924	690924
12.816829	down	XM_001076181	LOC690927	690927
64.67827	down	XM_001076188	LOC690929	690929
30.360683	down	XM_001078193	LOC690930	690930
2.9913085	down	XM_001076204	LOC690934	690934
59.582264	down	XM_001076213	LOC690937	690937
30.525276	down	XM_001076239	LOC690943	690943
70.83947	down	XM_001076268	LOC690947	690947
13.400257	down	XM_001076286	LOC690951	690951

59.49424	down	XM_001076337	LOC690969	690969
7.8700547	down	XM_001076357	LOC690974	690974
75.481285	down	XM_001076377	LOC690977	690977
16.725073	down	XM_001076398	LOC690985	690985
54.046158	down	XM_001076453	LOC690998	690998
7.860008	down	XM_001071458	LOC691000	691000
29.201902	down	XM_001076475	LOC691005	691005
5.699181	down	XM_001076490	LOC691008	691008
6.343252	down	XM_001076494	LOC691009	691009
4.594149	down	XM_001076557	LOC691021	691021
37.899372	down	XM_001076573	LOC691025	691025
4.4744363	down	XM_001076600	LOC691033	691033
52.800243	down	XM_001076744	LOC691070	691070
25.159592	down	XM_001076750	LOC691073	691073
23.476376	down	XM_001076760	LOC691077	691077
33.346348	down	XM_001076823	LOC691094	691094
72.13982	down	XM_001076856	LOC691108	691108
23.166252	down	XM_001076859	LOC691109	691109
3.7605805	down	XM_001076883	LOC691114	691114
52.85701	down	XM_001076889	LOC691115	691115
35.185905	down	XM_001076891	LOC691117	691117
5.884287	down	XM_001076892	LOC691118	691118
8.768778	down	XM_001076905	LOC691125	691125
45.35032	down	XM_001076960	LOC691136	691136
7.7251887	down	XM_001076975	LOC691141	691141
7.290775	down	XM_001076976	LOC691142	691142
32.291126	down	XM_001076998	LOC691146	691146
44.526638	down	XM_001077145	LOC691188	691188
10.3089	down	XM_001077165	LOC691192	691192
83.6373	down	XM_001077250	LOC691219	691219
24.927282	down	XM_001077260	LOC691221	691221
3.7167044	down	XM_001077271	LOC691224	691224
2.5010834	down	XM_001077272	LOC691225	691225
22.88434	down	XM_001077347	LOC691241	691241
16.194223	down	XM_001077373	LOC691247	691247
68.71651	down	XM_001077436	LOC691262	691262
45.318104	down	XM_001077468	LOC691270	691270
33.06413	down	XM_001077501	LOC691274	691274
36.85168	down	XM_001077529	LOC691282	691282
21.204136	down	XM_001077753	LOC691331	691331
26.71564	down	XM_001077757	LOC691332	691332
23.630014	down	XM_001077758	LOC691333	691333
61.43072	down	XM_001077759	LOC691334	691334
43.019363	down	XM_001077840	LOC691353	691353

5.4830275	down	XM_001077864	LOC691358	691358
23.630625	down	XM_001077906	LOC691366	691366
2.0751593	down	XM_001077980	LOC691381	691381
24.619114	down	XM_001077994	LOC691383	691383
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53.12758	down	XM_001078077	LOC691401	691401
49.29711	down	XM_001078092	LOC691403	691403
59.67002	down	XM_001078110	LOC691406	691406
60.420288	down	XM_001078125	LOC691410	691410
61.78119	down	XM_001078150	LOC691414	691414
11.251637	down	XM_001068693	LOC691418	691418
4.8848987	down	XM_001078185	LOC691421	691421
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23.744083	down	XM_001078288	LOC691443	691443
53.818295	down	XM_001078322	LOC691451	691451
36.99558	down	XM_001078439	LOC691473	691473
35.54924	down	XM_001078495	LOC691487	691487
4.1092987	down	XM_001078547	LOC691499	691499
38.021133	down	XM_001078554	LOC691502	691502
6.969195	down	XM_001078628	LOC691519	691519
35.91053	down	XM_001078640	LOC691522	691522
87.18262	down	XM_001078740	LOC691539	691539
26.033316	down	XM_001078835	LOC691561	691561
56.386166	down	XM_001078865	LOC691569	691569
14.442444	down	XM_001078893	LOC691573	691573
64.28848	down	XM_001078898	LOC691575	691575
70.643555	down	XM_001078899	LOC691576	691576
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59.706417	down	XM_001078958	LOC691595	691595
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38.981792	down	XM_001078980	LOC691600	691600
57.613567	down	XM_001078992	LOC691605	691605
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8.974823	down	XM_001079034	LOC691615	691615
29.751987	down	XM_001079035	LOC691616	691616
4.47654	down	XM_001079045	LOC691619	691619
45.541847	down	XM_001079070	LOC691627	691627
51.481007	down	XM_001079096	LOC691633	691633
4.60462	down	XM_001079135	LOC691642	691642
12.845527	down	XM_001079143	LOC691646	691646
2.1262844	down	XM_001079159	LOC691653	691653
2.9235134	down	XM_001079177	LOC691660	691660
23.512321	down	XM_001079199	LOC691666	691666

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54.491943	down	XM_001079225	LOC691673	691673
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70.669174	down	XM_001079247	LOC691681	691681
9.396431	down	XM_001079259	LOC691684	691684
73.355225	down	XM_001079285	LOC691692	691692
71.283325	down	XM_001079331	LOC691705	691705
15.693861	down	XM_001079351	LOC691712	691712
44.032154	down	XM_001079400	LOC691728	691728
56.572483	down	XM_001079430	LOC691735	691735
63.767822	down	XM_001079476	LOC691744	691744
36.5234	down	XM_001079486	LOC691748	691748
58.43748	down	XM_001079519	LOC691754	691754
70.76428	down	XM_001079538	LOC691760	691760
68.28949	down	XM_001079592	LOC691773	691773
2.253587	down	XM_001079602	LOC691777	691777
82.76729	down	XM_001079611	LOC691780	691780
69.08682	down	XM_001079621	LOC691784	691784
83.396484	down	XM_001079655	LOC691793	691793
43.337265	down	XM_001079664	LOC691795	691795
79.68269	down	XM_001079666	LOC691796	691796
9.585123	down	XM_001079667	LOC691797	691797
65.42204	down	XM_001079679	LOC691800	691800
72.45451	down	XM_001079688	LOC691802	691802
3.3715205	down	XM_001079726	LOC691809	691809
34.23636	down	XM_001079748	LOC691818	691818
20.827887	down	XM_001079793	LOC691833	691833
47.51803	down	XM_001079807	LOC691838	691838
2.4097273	down	XM_001079808	LOC691839	691839
18.092453	down	XM_001079876	LOC691854	691854
2.809453	down	XM_001079928	LOC691872	691872
57.41471	down	XM_001079964	LOC691883	691883
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2.1381824	down	XM_001080055	LOC691906	691906
34.319633	down	XM_001080938	LOC692003	692003
30.748688	down	XM_001080954	LOC692006	692006
6.229728	down	XM_001081234	LOC692026	692026
14.722045	down	XM_001081377	LOC692042	692042
26.46031	down	XM_001081410	LOC692050	692050
44.66004	down	NM_023969	Lpar3	66025
4.0432563	down	XM_001055334	Lpin2	316737
32.997707	down	XM_001070693	Lrfn4	688721
2.6263492	down	NM_139331	Lrit1	246214
3.5104558	down	XM_231214	Lrp1b	311926

3.170277	down	XM_001067386	Lrp5	293649
4.2827444	down	XM_001066578	Lrp8	362558
3.2989945	down	XM_001070748	Lrrc16a	306941
6.031827	down	XM_001070537	Lrrc25	498605
9.597979	down	XM_001056018	Lrrc27	499281
3.7323048	down	NM_001024995	Lrrc33	303875
2.6841311	down	NM_001004201	Lrrc46	287653
2.1527662	down	XM_342990	Lrrc47	362672
3.407298	down	XM_001073479	Lrrc49	300763
2.906591	down	NM_001077434	Lrrc52	289199
5.427192	down	XM_001070170	Lrrc55	311171
6.039981	down	XM_001075896	Lrrc68	308398
6.075941	down	XM_001055887	Lrrc69	500415
8.838449	down	NM_001014269	Lrrfip1	367314
3.3820095	down	NM_001024307	Lrriq3	499732
22.825962	down	NM_022634	Lst1	64569
2.4534311	down	NM_212507	Ltb	361795
8.296159	down	NM_053640	Ltb4r2	114098
6.417817	down	NM_153726	Ly49s3	266768
3.8834832	down	NM_001009494	Ly49s7	494203
20.22765	down	XM_001068565	Ly49si2	494207
2.7200787	down	NM_001001969	Ly6g6c	294241
13.607564	down	NM_001001970	Ly6g6d	415062
5.9729137	down	NM_001007677	Lyl1	304663
29.795622	down	XM_001053512	Lypd6	679564
8.359736	down	NM_031342	Lypla2	83510
8.867958	down	XM_217189	Lysmd2	300839
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35.38889	down	NM_001014247	Lzts2	365468
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3.2358937	down	NM_017190	Mag	29409
14.357118	down	NM_001014182	Mall	362211
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3.1104002	down	XM_001071701	Map4k2	293694
3.4108315	down	XM_214968	Map7	293016
3.5150697	down	XM_341399	Mapk8	116554
6.2471967	down	XM_001080877	Mapkbp1	362197
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3.0561066	down	NM_053947	Mark1	117016
7.8157635	down	XM_001057742	Mark4	680407
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5.0564394	down	XM_345145	Marveld2	365657
7.5161986	down	NM_022210	Max	60661
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2.179505	down	NM_001024996	Mblac1	304346
5.847035	down	NM_001025291	Mbp	24547
8.001954	down	NM_013099	Mc4r	25635
4.533139	down	XM_229172	Mcf2	317598
2.2931247	down	XM_001068436	Mcm4	29728
2.8328946	down	XM_226316	Mcm5	291885
21.791693	down	XM_001058060	Mcpt112	408238
11.386038	down	XM_573785	Mcpt113	408209
5.4947343	down	XM_573784	Mcpt114	408239
5.735345	down	NM_019321	Mcpt4	54270
6.2785344	down	NM_021598	Mcpt8	29269
2.2921593	down	XM_573782	Mcpt8l2	408240
2.6488986	down	NM_019323	Mcpt9	54272
3.1351993	down	XM_001054964	Mctp1	309928
2.1919465	down	NM_001044237	Mcts1	302500
8.034596	down	NM_030859	Mdk	81517
12.574654	down	XM_341880	Me3	361602
5.197479	down	NM_001047115	Mect1	684527
2.8948483	down	XM_001069345	Med19	311165
2.0202715	down	XM_001059017	Med28	305391
7.155323	down	NM_031634	Mefv	58923
5.4075146	down	XM_001077460	Mei1	315162
2.5235405	down	XM_001055664	Meig1	679834
3.499409	down	NM_001009962	Metrn	287151
2.2521274	down	XM_001074994	Mettl11b	289167
27.796404	down	XM_001060093	Mettl8	502633
2.7630832	down	XM_001068105	Mex3b	308790
2.0651255	down	XM_001062342	Mex3c	307271
2.0480537	down	XM_001076492	Mex3d	299613
22.360043	down	XM_001060365	Mfsd7	305625
4.7274547	down	XM_001059451	Mfsd9	316356
3.8546414	down	NM_019239	Mgat3	29582
4.864619	down	NM_001044300	MGC112715	690899
4.5682716	down	NM_001024893	MGC114427	317297
7.854323	down	NM_001024909	MGC114464	500925
4.7481155	down	NM_001024895	MGC114492	317324
34.140636	down	NM_001025755	MGC116197	367620
3.479783	down	NM_001044281	MGC93861	682010
2.313706	down	NM_001007645	MGC95152	297109
3.018324	down	NM_030852	Mia	81510
3.8310487	down	XM_001076784	Midn	314623
2.2539222	down	XM_001074414	Mier2	362841
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3.627165	down	XM_345932	Tmprss4	367074
2.752349	down	XM_001065494	Tnfaip6	84397
2.325662	down	XM_001056720	Tnfaip8	307428
14.340917	down	XM_236246	Tnfaip8l3	315673
2.3546276	down	XM_001069338	Tnfrsf10b	364420
5.654168	down	XM_001076437	Tnfrsf25	500592
2.7568755	down	NM_013049	Tnfrsf4	25572
18.640078	down	XM_001079627	Tnk1	303247
3.3417504	down	NM_001008336	Tnk2	303882
10.446853	down	XM_001073586	Tnn	304913
4.4298162	down	NM_017144	Tnni3	29248
99.705536	down	NM_017057	Tnp2	24840
5.2462616	down	NM_001024881	Tns4	303517
2.2251227	down	XM_001077625	Top3a	303194
12.50912	down	XM_001063870	Tp53inp2	362246
2.594347	down	NM_019221	Tp63	246334
9.717764	down	XM_001077013	Tp73	362675
3.5161586	down	NM_001079531	Tpmt	690050
3.3659635	down	NM_053534	Tpra1	85494
2.1753612	down	XM_001060281	Tpx2	311546
3.2151585	down	NM_001044248	Traf3ip2	361857
18.309402	down	XM_001064383	Tram1	312903

14.83324	down	XM_001058030	Trap1a	680619
2.0409422	down	XM_001063859	Trem1	301229
5.6933727	down	XM_001063589	Trem2	301227
61.934856	down	XM_576511	Trem11	501096
10.066272	down	XM_001059217	Trem14	680862
6.4654016	down	NM_013046	Trh	25569
3.3014073	down	NM_001082572	Trim21	308901
3.9790828	down	NM_001011665	Trim26	309586
6.3013506	down	XM_574516	Trim30	499223
2.1345108	down	XM_001053970	Trim36	291597
2.1898646	down	NM_001013203	Trim44	362172
2.7656956	down	XM_001077454	Trim52	290458
17.178259	down	XM_001075898	Trim58	303167
2.042422	down	XM_001060201	Trim62	313045
5.897168	down	XM_001065684	Trip11	314393
2.0856304	down	NM_198051	Trmt11	378794
2.818917	down	NM_001011895	Trmt2a	287953
13.34085	down	NM_001007706	Trmt61a	314462
5.2546	down	NM_001083115	Trpc4	84494
5.0272355	down	NM_080898	Trpc5	140933
5.6737666	down	NM_001037733	Trpm1	361586
2.6409469	down	NM_017207	Trpv2	29465
9.543892	down	XM_001052990	Trub2	366012
22.362726	down	XM_001054665	Tsfm	679068
9.114251	down	NM_013116	Tshb	25653
2.6804051	down	XM_001073538	Tsnaxip1	498944
10.098176	down	NM_001024262	Tspan11	312727
4.8950973	down	XM_001065183	Tspan32	685765
7.771517	down	NM_001012075	Tspyl4	309828
3.3878427	down	NM_001007650	Tssk3	297891
14.274149	down	XM_001066190	Ttbk1	316229
2.1958535	down	XM_001080916	Ttbk2	311349
2.3688211	down	XM_001078737	Ttc17	311224
3.0527537	down	NM_001013890	Ttc29	291944
7.4723063	down	XM_343094	Ttc7b	362768
31.891794	down	XM_576070	Ttc9	500689
5.825646	down	NM_001024758	Ttl10	298692
2.2060044	down	XM_001070417	Ttyh1	292597
8.592023	down	XM_221081	Ttyh2	287803
22.318333	down	XM_001073693	Ttyh3	304315
4.5726905	down	NM_139254	Tubb3	246118
2.4709783	down	XM_345244	Tuft1	365864
2.9435372	down	NM_053530	Twist1	85489
3.4286902	down	XM_001061592	Txlna	682457

2.0407162	down	XM_001067457	Txndc12	298370
4.873921	down	NM_001005559	Txndc2	316777
3.6692493	down	NM_212525	Tyropb	361537
2.0179164	down	XM_001077578	Uap111	296560
2.8956628	down	XM_001065047	Ubash3b	315579
7.3723345	down	XM_228708	Ube2q2l	317341
6.8744273	down	XM_001074290	Ubiad1	313706
2.3589065	down	NM_001014117	Ublcp1	360514
3.1056738	down	XM_001063674	Ubt2	287178
3.6114106	down	XM_001073045	Ubxn7	303878
20.031277	down	NM_019150	Ucn	29151
2.187101	down	NM_012683	Ugt1a1	24861
2.044559	down	XM_001057451	Ugt3a2	294793
2.049816	down	NM_019276	Ugt8	50555
2.0968475	down	XM_220541	Ulk2	303206
2.4731581	down	XM_001079051	Umodl1	365544
5.100558	down	XM_001077605	Unc119b	288702
2.365452	down	NM_199407	Unc5c	362049
3.8925326	down	NM_053845	Upb1	116593
23.265436	down	XM_001066120	Uroc1	685999
2.0424626	down	XM_001078228	Ush1c	308596
4.702354	down	NM_001033687	Ushbp1	290629
3.019208	down	XM_001074575	Usp4	290864
15.562094	down	NM_019160	Uts2	29180
79.87199	down	NM_001008898	V1ra14	297442
23.42862	down	NM_001008953	V1re18	494299
19.019907	down	XM_001056450	Vangl2	289229
6.9668207	down	XM_001055204	Vasn	679921
3.5489345	down	NM_001033683	Vat1	287721
5.9457936	down	XM_001057825	Vil1	316521
2.6421413	down	XM_001077346	Vill	301057
3.213076	down	NM_012685	Vipr1	24875
7.2471523	down	NM_173112	Vom1r101	286892
21.687485	down	NM_173113	Vom1r105	286893
2.2455554	down	NM_001008962	Vom1r12	494306
21.755983	down	NM_001008952	Vom1r27	494297
19.054249	down	NM_001008946	Vom1r29	494292
7.9714518	down	NM_001008939	Vom1r46	494286
13.574978	down	NM_001008930	Vom1r52	494278
2.0121384	down	NM_001008963	Vom1r54	365190
2.2132733	down	NM_001009530	Vom1r85	494250
8.630073	down	NM_153729	Vom1r90	266771
3.533272	down	NM_173297	Vom1r97	286956
55.709167	down	XM_001053213	Vom2r1	678740

7.2030125	down	XM_001074899	Vom2r13	690593
24.75204	down	XM_218099	Vom2r2	292438
21.361368	down	XM_577675	Vom2r3	502213
3.003517	down	NM_173319	Vom2r31	286985
10.111616	down	NM_173315	Vom2r32	286981
29.530499	down	XM_218106	Vom2r4	308248
10.795661	down	XM_001081473	Vom2r40	286983
2.2672434	down	XM_001053623	Vom2r43	679593
27.80621	down	XM_001053116	Vom2r5	679691
13.583003	down	XM_001075977	Vom2r63	288541
11.443346	down	XM_001060234	Vom2r64	681079
55.99071	down	XM_001070665	Vom2r65	689403
6.4504647	down	XM_001071469	Vom2r-ps124	689642
3.0744836	down	XM_001071402	Vom2r-ps39	502287
4.6234875	down	XM_001066381	Vom2r-ps89	304229
24.531763	down	XM_001062818	Vpreb2	363830
2.340953	down	XM_001077797	Vps13a	309243
5.2692103	down	XM_001064954	Vps36	290851
3.0801206	down	XM_001074854	Vps37b	288659
2.831319	down	XM_213395	Vps53	287535
2.3685493	down	NM_001037784	Vsig1	315920
23.668324	down	XM_001058168	Vsig2	300520
4.2755284	down	XM_001069552	Vstm2a	689106
6.056609	down	XM_001058827	Vsx2	171360
4.40635	down	XM_578230	Vwde	502731
4.147468	down	XM_001064536	Wdfy2	305956
2.99389	down	XM_001062583	Wdhd1	305827
2.6690361	down	NM_199410	Wdr12	363237
3.072194	down	XM_001057879	Wdr13	317370
3.7655234	down	XM_001071278	Wdr20a	314453
4.4579506	down	XM_001055617	Wdr27	308222
10.230326	down	XM_578535	Wdr35l	503018
3.2214599	down	XM_344019	Wdr52	363782
2.0325444	down	XM_001073107	Wdr53	498097
2.6549633	down	XM_218509	Wdr88	292809
2.122769	down	XM_001062276	Wdr90	287157
3.476677	down	XM_001064989	Wdte1	313020
2.304006	down	NM_001012742	Wee1	308937
12.225084	down	NM_001008866	Wfdc12	408227
3.4563618	down	NM_001009179	Wfdc15b	408230
2.7327864	down	XM_001062781	Wfdc16	685201
3.2262995	down	XM_001062561	Wfdc6a	685153
24.087214	down	XM_001068398	Wibg	366790
5.159103	down	XM_340895	Wipf2	360620

6.2933874	down	NM_147211	Wipf3	259242
2.0795703	down	NM_031590	Wisp2	29576
2.2059984	down	XM_001074919	Wiz	314598
5.1831026	down	XM_001062326	Wnt10b	315294
4.4127584	down	XM_001059030	Wnt2	114487
4.8066373	down	XM_001081545	Wnt3	24882
5.4180894	down	XM_001076985	Wnt3a	303181
34.15898	down	XM_237295	Wnt6	316526
8.157717	down	XM_001061171	Wnt8a	291678
6.5309486	down	XM_001077006	Wnt9a	287357
11.90724	down	NM_031534	Wt1	24883
3.1337159	down	XM_001079532	Wtip	361552
18.38775	down	NM_001012042	Xkr6	305960
3.5652435	down	NM_001012099	Xkr8	313033
2.2347631	down	NM_001012230	Xkrx	497101
77.3982	down	XM_001073004	Xlr3a	690041
9.34971	down	XM_001054068	Xlr4a	293841
2.3579578	down	NM_001013863	Ydjc	287938
4.2478347	down	NM_033298	Yes1	24884
4.1754026	down	NM_001025729	Zbed3	361881
2.4493458	down	NM_199496	Zbtb25	314245
2.2144227	down	XM_001068541	Zbtb32	688845
5.843092	down	XM_001062353	Zbtb45	308366
8.414466	down	XM_001075474	Zbtb48	362668
2.6770947	down	XM_001060900	Zbtb8b	500553
2.0496092	down	XM_224295	Zc3h13	305955
2.9806151	down	XM_346320	Zc4h2	367838
2.4950998	down	XM_001073035	Zcchc10	360524
3.3127115	down	NM_001014065	Zcchc12	313436
2.8472152	down	XM_001079169	Zcchc14	365018
4.518474	down	XM_001076305	Zcwpw1	304368
6.8973913	down	NM_001039101	Zdhhc15	317235
35.44543	down	NM_001039009	Zdhhc21	298184
5.6518793	down	NM_001039100	Zdhhc24	293665
3.7060175	down	NM_001008363	Zfand2a	360772
59.75459	down	XM_001058915	Zfhx4	310250
2.4678466	down	XM_001072483	Zfp12	288486
15.272711	down	XM_001078438	Zfp167	363170
5.730972	down	XM_225349	Zfp192	306974
5.909386	down	XM_001059933	Zfp275	293849
2.622548	down	NM_001012058	Zfp276	307924
18.9585	down	XM_001064187	Zfp278	305471
10.034515	down	XM_001066602	Zfp29	686118
9.314803	down	XM_001055374	Zfp324	365192

2.8585935	down	NM_058209	Zfp37	115768
6.2916985	down	XM_001062461	Zfp385b	311137
3.1799476	down	XM_001061052	Zfp407	307213
6.6061435	down	NM_001079943	Zfp426l	367034
2.2661996	down	XM_001074185	Zfp653	300446
4.9964213	down	NM_001009656	Zgpat	296478
2.9106355	down	NM_133620	Zhx1	171159
6.4303336	down	XM_341381	Zic2	361096
3.266217	down	XM_001068350	Zim1	308322
4.080939	down	NM_001025760	Zkscan1	498160
2.4611647	down	XM_001061563	Zmym3	317260
2.6119797	down	XM_001055163	Znf213	287094
7.1302958	down	XM_001053378	Znf282	297065
2.3991108	down	NM_145724	Znf394	252860
4.893431	down	XM_001080639	Znf473	292884
8.742044	down	XM_001057553	Znf474	307310
6.061874	down	XM_001061809	Znf498	363872
3.7457666	down	XM_001079835	Znf507	292816
29.118053	down	XM_001080163	Znf553	308991
4.234754	down	XM_001076652	Znf575	308430
3.0262823	down	XM_001076726	Znf609	363412
3.5136085	down	XM_001064168	Znf618	313253
11.158872	down	XM_001080269	Znf629	308998
2.3363054	down	XM_001061309	Znf641	300197
4.0699096	down	NM_001080207	Znf652	497984
4.405996	down	NM_173330	Znf689	286996
2.2196004	down	XM_001058556	Znf703	680717
2.3207905	down	XM_001068197	Znf76	361809
2.0452445	down	XM_001078321	Znf763	314586
17.080917	down	XM_001079970	Znf764	691885
16.940266	down	XM_001067642	Znf773	502292
4.5289416	down	XM_001068316	Znf804a	295695
2.5268648	down	XM_226449	Znf821	307834
4.9695725	down	XM_001076915	Znhit1	360784
2.19726	down	XM_001059988	Zscan20	500549
2.1971748	down	NM_001008308	Zufsp	294390

MiR-434-3p overexpression _vs_ Control 2.0 fold up regulated genes

Fold change	Regulation	ACCESSION	GeneSymbol	GeneID
2.3291411	up	NM_130399	Ada	24165
2.0532598	up	XM_001062804	Aldh5a1	291133
2.7336085	up	NM_012777	Apod	25239
2.3426118	up	XM_001061611	C1r	312705
2.031044	up	NM_016994	C3	24232
3.5443885	up	NM_001002805	C4-2	406161
3.224404	up	NM_031504	C4b	24233
2.0677345	up	NM_138915	Caly	192349
2.4624414	up	XM_001066248	Ccdc150	316399
2.0082316	up	NM_130812	Cdkn2b	25164
2.281728	up	XM_001074104	Cish	83681
2.1080773	up	XM_001074417	Cox19	304330
6.3228664	up	NM_080399	Ddit4l	140582
2.1313102	up	XM_001081786	Eif4a3	688288
2.0268247	up	XM_001071395	Exosc3	313243
2.2058744	up	NM_001014050	Fam110a	311535
2.2469897	up	XM_001062665	Fam163b	685169
2.5436077	up	XM_001061851	Fam186a	684999
2.2158797	up	NM_022182	Fgf7	29348
2.014882	up	XM_001064153	Frg1l	361156
4.285344	up	NM_001077640	Gadd45g	291005
2.0066333	up	NM_012736	Gpd2	25062
2.0962913	up	NM_181770	Gpr119	302813
2.0294363	up	NM_031623	Grb14	58844
2.1656728	up	NM_017122	Hpca	29177
2.2540815	up	XM_001053962	Hrasls	288025
2.1894298	up	NM_001082477	Igf1	24482
2.0168078	up	NM_001013048	Igfbp7	289560
2.2563148	up	XM_001074037	Imp3	315697
2.3453574	up	XM_001069483	Kdm1	500569
2.148561	up	XM_001065538	Klhl8	289457
4.997229	up	XM_001063981	Krtap21-2	685485
3.3775198	up	XM_577124	Krtap2-4	501720
2.5803301	up	XM_001055597	Ldoc1	367956
2.3878047	up	XM_001064280	LOC287921	287921
2.9513376	up	XM_001066324	LOC288419	288419
2.1946557	up	XM_223807	LOC289918	289918
2.2405474	up	XM_001071880	LOC293697	293697
4.0627837	up	XM_228268	LOC294497	294497
5.454705	up	XM_001065571	LOC298820	298820
2.2155619	up	XM_236873	LOC301193	301193
2.9118931	up	XM_001074409	LOC301748	301748

3.0154173	up	XM_229238	LOC301772	301772
2.292094	up	XM_229292	LOC301816	301816
3.9416857	up	XM_001061753	LOC301839	301839
2.5699413	up	XM_217510	LOC301977	301977
3.6752853	up	XM_229524	LOC302000	302000
3.0733488	up	XM_217530	LOC302085	302085
3.0800085	up	XM_001065392	LOC302192	302192
2.589499	up	XM_217542	LOC302199	302199
2.1098735	up	XM_223806	LOC305698	305698
2.2127109	up	XM_001081925	LOC305771	305771
3.5160017	up	XM_001065941	LOC306312	306312
8.524204	up	XM_224750	LOC306365	306365
2.6962013	up	XM_001081637	LOC307706	307706
4.970486	up	XM_217963	LOC308198	308198
3.7739859	up	XM_236887	LOC316192	316192
2.0648422	up	XM_001078812	LOC316493	316493
2.416704	up	XM_229366	LOC316856	316856
2.5627372	up	XM_001064910	LOC316873	316873
2.7373226	up	XM_229488	LOC316919	316919
3.304061	up	XM_229505	LOC316931	316931
2.9259698	up	XM_229508	LOC316933	316933
2.3500063	up	XM_001078949	LOC317085	317085
3.717472	up	XM_001057404	LOC360998	360998
3.668232	up	XM_001061883	LOC363181	363181
2.3723235	up	XM_347120	LOC363301	363301
4.092005	up	XM_001062328	LOC363306	363306
2.2208025	up	XM_343660	LOC363320	363320
3.3853881	up	XM_343663	LOC363324	363324
2.3424554	up	XM_343674	LOC363336	363336
2.5568564	up	NM_001014221	LOC363337	363337
3.63308	up	XM_001081023	LOC363343	363343
3.0022	up	XM_001076189	LOC363354	363354
2.3041904	up	XM_001077951	LOC363363	363363
3.0145245	up	XM_001074547	LOC363380	363380
3.8859959	up	XM_343727	LOC363397	363397
4.428336	up	XM_343755	LOC363433	363433
3.3838935	up	XM_343756	LOC363434	363434
3.4362752	up	XM_344247	LOC364164	364164
2.425887	up	XM_344294	LOC364250	364250
3.3842156	up	XM_001053352	LOC365499	365499
3.9976592	up	XM_001055159	LOC365501	365501
2.6256914	up	XM_345058	LOC365502	365502
3.2740605	up	XM_345061	LOC365506	365506
5.8581786	up	XM_001070902	LOC366780	366780

2.344636	up	XM_001078369	LOC367377	367377
4.3453546	up	XM_001067423	LOC367381	367381
4.2712193	up	XM_346138	LOC367436	367436
3.6702027	up	XM_001059570	LOC367485	367485
2.265313	up	XM_001075365	LOC367493	367493
2.0016234	up	XM_001062392	LOC367516	367516
2.1113546	up	XM_346193	LOC367523	367523
2.9983046	up	XM_001063146	LOC367539	367539
2.742218	up	XM_001081934	LOC367617	367617
2.7056704	up	XM_346234	LOC367632	367632
3.092772	up	XM_346241	LOC367653	367653
3.7604427	up	XM_573546	LOC498320	498320
2.0539243	up	XM_001061548	LOC498372	498372
4.212043	up	XM_573609	LOC498374	498374
2.037956	up	XM_573699	LOC498444	498444
3.5069547	up	XM_001079520	LOC498446	498446
3.5352485	up	XM_001076556	LOC498463	498463
2.1223006	up	XM_001072047	LOC498465	498465
2.4272547	up	XM_573724	LOC498467	498467
2.2594962	up	XM_573725	LOC498468	498468
2.4872637	up	XM_573738	LOC498480	498480
2.3099864	up	XM_573955	LOC498672	498672
5.9924226	up	XM_001063340	LOC498781	498781
4.522934	up	XM_579956	LOC499384	499384
2.6361122	up	XM_001079909	LOC499779	499779
2.885358	up	XM_001077472	LOC500584	500584
2.283609	up	XM_576202	LOC500815	500815
2.163841	up	XM_576504	LOC501089	501089
2.9291902	up	XM_576506	LOC501091	501091
3.1863053	up	XM_576507	LOC501092	501092
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3.3853936	up	XM_001053213	Vom2r1	678740
2.5437665	up	XM_218106	Vom2r4	308248
2.2569673	up	XM_001070665	Vom2r65	689403
2.0599785	up	XM_001062818	Vpreb2	363830
2.1194217	up	XM_001080583	Vps53	287535
2.1313963	up	XM_001059030	Wnt2	114487
2.0093808	up	NM_053402	Wnt4	84426
3.9828842	up	XM_001073004	Xlr3a	690041
4.701024	up	XM_001056023	Zmynd17	289904
2.136492	up	XM_001076652	Znf575	308430

MiR-434-3p overexpression _vs_ Control 2.0 fold down regulated genes

Fold change	Regulation	ACCESSION	GeneSymbol	GeneID
2.0157707	down	NM_013040	Abcc9	25560
4.4395676	down	NM_053922	Acacb	116719
2.0231595	down	NM_013084	Acadsb	25618
3.0987487	down	NM_172009	Ache	83817
2.7171745	down	NM_017340	Acox1	50681
2.0521078	down	NM_019183	Actc1	29275
2.9059446	down	NM_031675	Actn4	63836
2.3093443	down	NM_199230	Acvr1b	29381
2.1679087	down	XM_001067637	Adck2	312258
2.0552995	down	NM_031552	Add3	25230
2.022554	down	XM_001063833	Agbl1	308724
2.9907243	down	XM_001068488	Ahcy11	362013
2.7331386	down	XM_001078032	Ahnak	191572
2.9400535	down	XM_001077954	Aif11	362107
2.0304124	down	NM_001011974	Akap2	298024
2.9877937	down	NM_033230	Akt1	24185
3.2727547	down	NM_017093	Akt2	25233

2.254635	down	NM_031010	Alox15	81639
2.4924178	down	XM_001062954	Amfr	361367
2.2336266	down	XM_001056974	Amot	300289
4.5548353	down	NM_031544	Ampd3	25095
3.7188325	down	NM_133569	Angptl2	171100
2.8204174	down	XM_342337	Ank2	362036
2.1577528	down	NM_053714	Ankh	114506
3.4566061	down	NM_013220	Ankrd1	27064
2.0516331	down	NM_001012148	Ankrd13a	360823
3.2760317	down	XM_001055096	Ankrd2	309374
2.2958615	down	XM_001056748	Ankrd23	316330
2.2298198	down	XM_001066475	Ano1	309135
2.1787488	down	NM_001014255	Aph1a	365872
2.5272114	down	NM_012778	Aqp1	25240
3.0224397	down	NM_001012032	Arhgap24	305156
3.2634416	down	NM_001007005	Arhgdia	360678
2.2052927	down	NM_001005565	Arhgef6	363509
2.1500762	down	NM_207165	Arl10	306767
2.2495475	down	NM_001009455	Armc5	361653
2.0812266	down	XM_001071122	Armc6	306352
3.19201	down	NM_012780	Arnt	25242
2.5981114	down	XM_001074246	Ash1l	310638
2.3158536	down	NM_013113	Atp1b1	25650
2.1672573	down	NM_012507	Atp1b2	24214
2.15615	down	NM_017290	Atp2a2	29693
3.2743301	down	NM_031604	Atp6v0a1	29757
2.4691823	down	NM_001009539	B4galt3	494342
2.7381532	down	NM_001011936	Bag3	293524
2.0126724	down	NM_212462	Bat2	294250
4.324102	down	XM_001080943	Best3	314847
3.0631297	down	NM_133582	Blcap	171113
2.0410476	down	XM_001061326	Bsdcl	297890
2.4812295	down	NM_001013185	Cabc1	360887
2.6874948	down	NM_012920	Camk2a	25400
2.0116816	down	NM_001042354	Camk2b	24245
2.0862088	down	NM_012519	Camk2d	24246
2.00433	down	XM_001079889	Camta2	287462
2.3629408	down	NM_019152	Capn1	29153
2.0281074	down	XM_001052977	Caprin1	362173
2.5880685	down	NM_001030041	Carm1	363026
2.1792564	down	NM_147144	Casc3	259170
2.5460916	down	XM_001081695	Caskin2	303678
2.1301687	down	NM_017131	Casq2	29209
3.0259922	down	XM_001054087	Ccdc109a	294560

2.0924473	down	NM_001080151	Ccdc21	362622
2.112702	down	NM_001014061	Ccdc91	312863
2.10346	down	XM_001061914	Cd163	312701
2.6131516	down	NM_012752	Cd24	25145
4.048762	down	NM_001012164	Cd97	361383
2.2469764	down	XM_228203	Cdc216	309804
2.0928333	down	XM_001057656	Cdh5	307618
13.018074	down	NM_080782	Cdkn1a	114851
3.2872384	down	NM_001014097	Cdv3	315970
2.0057075	down	XM_001081194	Cenpb	362217
2.4095623	down	XM_001058641	Chd2	308738
2.1201797	down	NM_024139	Chp	64152
2.4877882	down	XM_001059575	Chrd	117275
5.023558	down	NM_019145	Chrng	25753
2.349006	down	XM_001053715	Clasp1	304740
2.0957475	down	NM_053363	Clcn3	84360
2.0344222	down	NM_022198	Clcn4-2	60586
2.1788273	down	NM_031818	Clic4	83718
2.8674033	down	NM_001002022	Clint1	360515
2.674918	down	XM_001076134	Col4a2	306628
2.6228151	down	XM_001068252	Col6a3	367313
2.4325054	down	NM_173303	Cox6c1	286962
2.408513	down	XM_001064017	Cpeb4	303010
2.006819	down	NM_019302	Crk	54245
2.3598657	down	NM_057144	Csrp3	117505
2.039621	down	XM_001053648	Ctps	313560
2.4962661	down	NM_021868	Ctnn	60465
2.2306993	down	XM_001079353	Cyb5d1	363629
2.0155656	down	NM_138877	Cyb5r3	25035
2.0743167	down	NM_001014164	Cybasc3	361729
3.4897575	down	XM_001074892	Dag1	114489
2.613898	down	NM_001009686	Dcaf11	305895
3.0845237	down	NM_053404	Dctn4	84428
2.7038054	down	XM_001068407	Dda1	688813
2.5610852	down	NM_001012345	Dgat2	252900
2.4540606	down	XM_001081462	Dhx58	303538
2.6752222	down	NM_001006981	Dlst	299201
2.408337	down	NM_001005246	Dmd	24907
5.293943	down	XM_001066025	Dmpk	308405
2.6779027	down	NM_001025411	Dnaja4	300721
3.369737	down	XM_001061825	Dnajb5	313811
2.1354055	down	NM_013199	Dnm2	25751
2.0241542	down	XM_001057815	Dupd1	361003
2.0517015	down	XM_001064583	Dusp10	63995

2.340322	down	NM_031820	Dvl1	83721
2.1390088	down	NM_053596	Ece1	94204
2.1924262	down	NM_012660	Eef1a2	24799
4.412796	down	NM_012551	Egr1	24330
2.0820165	down	XM_001074569	Ehd1	293692
2.819918	down	NM_001025660	Ei24	300514
2.6495502	down	XM_001062415	Eif4g2-ps2	308446
2.008494	down	NM_001033681	Eif5a	287444
2.0373385	down	XM_001070626	Ell	306347
2.2154837	down	XM_001080308	Enpep	64017
3.2331913	down	XM_001068428	Enpp4	301261
2.861715	down	NM_203336	Esrrg	360896
2.0182095	down	XM_001068194	Ewsr1	289752
2.6711595	down	XM_001059758	Eya1	502935
2.000845	down	XM_001054174	Eya4	292172
2.1226408	down	XM_001081456	Ezh1	303547
2.2748163	down	NM_053445	Fads1	84575
2.2884145	down	NM_173137	Fads3	286922
2.3765354	down	XM_001057799	Fam134a	363252
2.0708854	down	XM_001071695	Fam189b	310640
2.5292027	down	XM_001063835	Fbxw11	303024
2.1894717	down	NM_024146	Fgfr1	79114
3.0932035	down	NM_001033926	Fhl1	25177
5.040366	down	XM_001056311	Fhl3	313582
2.2691858	down	NM_001014120	Fkbp10	360627
6.957848	down	XM_001061717	Flnc	362332
2.4400327	down	XM_001070746	Fndc3a	306022
2.1024334	down	XM_001057133	Fndc3b	294925
2.1183698	down	NM_133527	Folr1	171049
2.1585858	down	NM_022197	Fos	314322
2.7999067	down	XM_001055972	Foxd4	252886
3.4057667	down	XM_001074052	Foxj3	313554
2.63487	down	XM_001065012	Foxn3	314374
2.294917	down	XM_001062337	Fsd2	308779
2.1211357	down	NM_001039337	Fubp3	362106
2.130813	down	XM_001079469	Fxr2	287433
2.1940057	down	NM_022008	Fxyd7	63848
3.1590736	down	NM_001009632	G0s2	289388
2.048305	down	NM_199118	Gaa	367562
3.21024	down	NM_001017486	Gbas	498174
3.1502433	down	XM_001066196	Gbf1	309451
2.1029053	down	NM_017088	Gdi1	25183
2.582242	down	NM_001011994	Gga1	300066
2.9360895	down	NM_031814	Git1	83709

2.2183626	down	NM_017211	Glg1	29476
2.1453307	down	XM_001065857	GlT25d1	290637
2.5554016	down	NM_172335	Gm2a	282838
2.0562377	down	NM_001013119	Gna13	303634
2.8366694	down	NM_001011989	Gns	299825
2.0235262	down	XM_001062460	Golim4	310526
2.3761907	down	NM_013177	Got2	25721
3.129917	down	NM_030828	Gpc1	58920
3.3112435	down	NM_022215	Gpd1	60666
2.0151246	down	XM_001074228	Gpihbp1	300027
2.4728868	down	NM_031039	Gpt	81670
2.9110298	down	NM_001012057	Gpt2	307759
2.5342813	down	NM_001009920	Gsta5	494500
2.1495667	down	XM_574740	Gstt3	499422
2.344897	down	XM_001058711	Gtpbp2	363195
4.478064	down	XM_001076928	Gys1	690987
2.0419738	down	NM_001079940	Habp4	361196
4.8743625	down	NM_012945	Hbegf	25433
3.114225	down	NM_019387	Hgs	56084
2.0916438	down	XM_001072438	Hip1r	81917
3.6266866	down	XM_001066707	Hipk2	362342
3.5429852	down	NM_001080783	Hisppd2a	311355
2.0765824	down	NM_024137	Hivep2	29721
2.9080527	down	NM_012735	Hk2	25059
2.5211995	down	NM_012580	Hmox1	24451
2.138936	down	XM_001076759	Hnrnp112	311776
2.2944856	down	NM_138887	Hspb6	192245
23.174852	down	XM_001072790	Hspb7	50565
2.0007193	down	XM_341259	Hspc159	360983
2.7245631	down	NM_031721	Htra1	65164
2.386734	down	XM_001075074	Ints3	361988
2.3744712	down	NM_001033691	Irf7	293624
2.6328511	down	XM_001059353	Itga6	114517
2.6188107	down	XM_001069915	Itgb1bp2	317258
3.6116076	down	NM_001004263	Itgb6	311061
2.0157993	down	XM_001058872	Itpk1	500709
2.034496	down	NM_021835	Jun	24516
2.3735986	down	NM_013186	Kcnb1	25736
2.3448172	down	NM_031358	Kcnj11	83535
2.5191863	down	NM_031828	Kcnma1	83731
2.1655066	down	NM_133602	Khsrp	171137
2.3750033	down	XM_001058501	Kif13a	308173
2.628528	down	NM_053486	Kif3c	85248
2.0068946	down	XM_214331	Klhl2	290692

2.667188	down	XM_001065835	Larp5	307070
2.9186301	down	XM_001060474	Lclat1	362702
2.7838018	down	XM_001058773	Ldb1	309447
2.8179986	down	XM_001059372	Ldb3	498587
2.4149106	down	NM_012595	Ldhb	24534
2.2234929	down	XM_001056203	Leng4	308309
2.2909951	down	NM_020099	Leprot	56766
2.034387	down	NM_139096	Lgals3bp	245955
2.3528314	down	NM_012977	Lgals9	25476
2.2010205	down	XM_001078972	Limd1	316101
2.358569	down	NM_152844	Llgl1	54265
2.3238568	down	XM_001076072	Lmcd1	494021
2.031095	down	NM_001079939	Lmf2	315218
2.3398912	down	XM_001076027	Lmnb2	299625
2.4541237	down	NM_001013853	LOC287167	287167
4.6755524	down	XM_001054688	LOC291746	291746
2.7550628	down	XM_001054611	LOC292662	292662
2.5687125	down	XM_001066983	LOC297826	297826
2.904464	down	XM_001059270	LOC298016	298016
2.7751424	down	XM_001054228	LOC300481	300481
4.1906	down	NM_001037190	LOC303448	303448
2.1238563	down	XM_001080824	LOC360570	360570
3.103765	down	XM_001062239	LOC363737	363737
3.0002496	down	XM_001065988	LOC363903	363903
2.2282526	down	XM_001064135	LOC365219	365219
2.4618766	down	XM_001077769	LOC365559	365559
3.2929974	down	XM_001058386	LOC366068	366068
2.652297	down	XM_345916	LOC367050	367050
3.2863681	down	XM_001071580	LOC367619	367619
2.6587489	down	XM_001076383	LOC499235	499235
4.9598417	down	XM_001078222	LOC499718	499718
3.2913065	down	XM_001053584	LOC499996	499996
2.081605	down	XM_001073134	LOC500912	500912
2.2035077	down	NM_001033072	LOC500959	500959
2.4369524	down	XM_577408	LOC501979	501979
3.1223638	down	XM_001063944	LOC502111	502111
5.959818	down	XM_001057051	LOC502730	502730
2.1178854	down	XM_001071495	LOC503366	503366
2.3183012	down	XM_001072828	LOC503393	503393
3.6563525	down	XM_578947	LOC503408	503408
4.238234	down	XM_001053228	LOC678801	678801
2.049402	down	XM_001053911	LOC678938	678938
3.063879	down	XM_001054963	LOC679221	679221
2.6705477	down	XM_001053597	LOC679586	679586

3.8458772	down	XM_001053642	LOC679597	679597
2.6281538	down	XM_001054023	LOC679685	679685
2.582184	down	XM_001054040	LOC679690	679690
2.735436	down	XM_001054162	LOC679715	679715
3.4197164	down	XM_001054617	LOC679826	679826
2.8781424	down	XM_001054952	LOC679920	679920
2.443848	down	XM_001055503	LOC680026	680026
2.134029	down	XM_001055430	LOC680036	680036
2.7055907	down	XM_001056856	LOC680363	680363
2.996659	down	XM_001056928	LOC680379	680379
3.252572	down	XM_001057008	LOC680393	680393
3.5817363	down	XM_001057446	LOC680499	680499
2.351425	down	XM_001058190	LOC680654	680654
2.6328077	down	XM_001058388	LOC680688	680688
3.90397	down	XM_001058740	LOC680755	680755
3.0433936	down	XM_001058966	LOC680805	680805
2.3900487	down	XM_001059174	LOC680848	680848
2.0174477	down	XM_001060542	LOC681153	681153
2.151028	down	XM_001060556	LOC681160	681160
5.109977	down	XM_001060821	LOC681222	681222
2.0849721	down	XM_001061373	LOC681354	681354
3.3148615	down	XM_001058015	LOC681699	681699
2.8943806	down	XM_001058263	LOC681754	681754
3.4369864	down	XM_001058730	LOC681858	681858
2.4786444	down	XM_001058855	LOC681893	681893
2.1434271	down	XM_001060977	LOC682316	682316
2.406557	down	XM_001062491	LOC682653	682653
3.3645396	down	XM_001063246	LOC682818	682818
2.0239916	down	XM_001063578	LOC682891	682891
3.8154705	down	XM_001064668	LOC683146	683146
3.2716873	down	XM_001065484	LOC683336	683336
2.4642944	down	XM_001070523	LOC683342	683342
2.1355946	down	XM_001065874	LOC683420	683420
2.2711065	down	XM_001065932	LOC683435	683435
2.36783	down	XM_001065985	LOC683447	683447
2.3440478	down	XM_001066111	LOC683479	683479
3.2119803	down	XM_001066181	LOC683494	683494
2.831613	down	XM_001066577	LOC683573	683573
2.557338	down	XM_001067070	LOC683689	683689
4.2173586	down	XM_001053482	LOC683761	683761
2.2830844	down	XM_001064232	LOC683788	683788
2.3330104	down	XM_001068630	LOC684035	684035
2.0067234	down	XM_001069378	LOC684202	684202
2.8819327	down	XM_001069774	LOC684297	684297

5.0293927	down	XM_001069904	LOC684333	684333
2.3754933	down	XM_001070490	LOC684352	684352
3.3041024	down	XM_001070213	LOC684399	684399
3.461679	down	XM_001072008	LOC684806	684806
3.5378366	down	XM_001063592	LOC685387	685387
2.6635602	down	XM_001064406	LOC685580	685580
2.4523764	down	XM_001065305	LOC685797	685797
2.688678	down	XM_001065503	LOC685851	685851
2.5693204	down	XM_001066160	LOC686011	686011
3.9118657	down	XM_001072758	LOC686172	686172
2.2749832	down	XM_001075155	LOC686658	686658
2.0496838	down	XM_001076367	LOC686931	686931
3.9322348	down	XM_001079384	LOC687610	687610
2.3016253	down	XM_001079878	LOC687713	687713
2.19288	down	XM_001080031	LOC687759	687759
2.165977	down	XM_001080804	LOC687991	687991
2.5332327	down	XM_001080924	LOC688029	688029
3.2382755	down	XM_001081883	LOC688349	688349
2.0921755	down	XM_001066874	LOC688424	688424
2.1054313	down	XM_001066030	LOC688462	688462
2.1348352	down	XM_001067817	LOC688667	688667
2.2238567	down	XM_001068479	LOC688829	688829
4.479032	down	XM_001070462	LOC689343	689343
4.413225	down	XM_001070764	LOC689427	689427
2.523	down	XM_001070770	LOC689428	689428
2.9251237	down	XM_001071429	LOC689628	689628
2.2046938	down	XM_001071836	LOC689741	689741
3.706674	down	XM_001072404	LOC689891	689891
2.089512	down	XM_001072820	LOC689989	689989
2.028385	down	XM_001073955	LOC690000	690000
2.0863266	down	XM_001073272	LOC690103	690103
3.0376253	down	XM_001075530	LOC690761	690761
4.230433	down	XM_001072433	LOC691098	691098
2.1238127	down	XM_001077205	LOC691204	691204
3.0429158	down	XM_001077221	LOC691211	691211
2.908142	down	XM_001077271	LOC691224	691224
2.7685645	down	XM_001077366	LOC691245	691245
2.1615086	down	XM_001079338	LOC691708	691708
2.1791866	down	XM_001080361	LOC691960	691960
2.4274585	down	NM_001012189	Lpcat3	362434
3.1072745	down	NM_012598	Lpl	24539
2.062748	down	XM_001070537	Lrrc25	498605
2.4408135	down	NM_001008280	Lrrc59	287633
2.0914018	down	NM_001017467	Ly6e	362934

2.8753772	down	NM_001008319	Maea	298982
2.499425	down	NM_145673	Mafk	246760
2.0529912	down	NM_030995	Map1a	25152
2.5211537	down	NM_053703	Map2k6	114495
3.5694008	down	XM_001081582	Map3k3	303604
2.048856	down	NM_001005556	Mavs	311430
2.0224288	down	NM_001024996	Mblac1	304346
2.3595693	down	XM_001062557	Mbnl1	282635
3.4273758	down	NM_001014035	Mef2a	309957
2.3847256	down	NM_001040186	Mfge8	25277
2.0067844	down	XM_001063359	Mfsd6	301388
2.881787	down	NM_001007751	MGC94207	362946
4.1508417	down	NM_001013964	Mgrn1	302938
2.0359304	down	XM_215562	Mgst2	295037
3.3430097	down	XM_001074357	Mical2	365352
2.544309	down	NM_134399	Mk1	171436
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