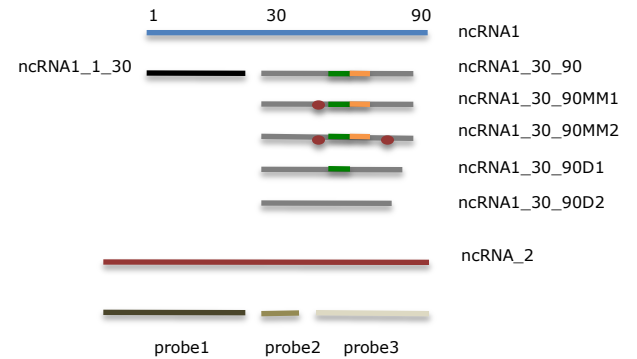


Supplementary Figure 1

Oligo name	Sequence (5' -- 3')
75K_126-162	TGCGGGGAAGGTGCTGCTCTCTGACCGAGCGCGCAGCT
75K_126-162D1	TGCGGGGAAGGTGCTGCTCTGACCGAGCGCGCAGCT
75K_126-162D2	TGCGGGGAAGGTGCTGCTCTGACCGAGCGCGCAGCT
75K_126-162MM1	TGCGGGGAAGGTGCTGCTCTGACCGAGCGCGCAGCT
75K_126-162MM2	TGCGGGGAAGGTGCTGCTCTGACCGAGCGCGCAGCT
75K_126-162_RC	AGCTGCGGCGCTGCTGCTGAGGAGGAGGACCTTCCCGGA
75K_17-43	AGCCGAATCAACCCCTGGCGATCATTGGGGGTGACAGATGTGCGACGCCA
75K_17-43MM1	AGCCGAATCAACCCCTGGCGATCATTGGGGGTGACAGATGTGCGACGCCA
75K_17-43MM2	AGCCGAATCAACCCCTGGCGATCATTGGGGGTGACAGATGTGCGACGCCA
75K_17-43_RC	TGGCTGCGACATCTGTACGCCATTGATCGCCAGGGTGTATTGCGGT
75K_55-91	AGGGGACACCCGCGCTAGCCAGCCAGATCAGCCGAATC
75K_55-91MM1	AGGGGACACCCGCGCTAGCCAGCCAGATCAGCCGAATC
75K_55-91MM2	AGGGGACACCCGCGCTAGCCAGCCAGATCAGCCGAATC
75K_55-91_RC	GATTGCGCTGATCTGGCTGGCTAGGCGGGTGTCCCGCT
SNORA18_4-47	CAACGACGCTGTGGCTACTAGGGAAGCCCGCTGGGATAGACCTC
SNORA18_4-47MM1	CAACGACGCTGTGGCTACTAGGGAAGCCCGCTGGGATAGACCTC
SNORA18_4-47MM2	CAACGACGCTGTGGCTACTAGGGAAGCCCGCTGGGATAGACCTC
SNORA18_4-47_RC	GAGGTCTATCCCGACGGGGCTCCCTAGTAGCCAGAGCTGTTG
SNORA18_66-112	CCACAGACCTTACAGTCAGTCTGTGAGTCAAGTAAACCCACAAGT
SNORA18_66-112MM1	CCACAGACCTTACAGTCAGTCTGTGAGTCAAGTAAACCCACAAGT
SNORA18_66-112MM2	CCACAGACCTTACAGTCAGTCTGTGAGTCAAGTAAACCCACAAGT
SNORA18_66-112_RC	ACTTGTGGTTTTACTTGACTACAGAGACTGACTGTAGGTCTGTGGG
SNORA71_14-66	GCATCTCTCTCCCTGCAGTATCAATGACGAGGACCGGAGCCACAATCACT
SNORA71_14-66MM1	GCATCTCTCTCCCTGCAGTATCAATGACGAGGACCGGAGCCACAATCACT
SNORA71_14-66MM2	GCATCTCTCTCCCTGCAGTATCAATGACGAGGACCGGAGCCACAATCACT
SNORA71_14-66_RC	AGTGATTGTGGGCTGCCGGTGCCTGTGTCATTGATGATGACGAGGAGATGC
SNORA71_71-124	AAGCACCAGGGTTTGGCAAGGACAAGTGTATCTCCAAACACGGGGAAGGCT
SNORA71_71-124MM1	AAGCACCAGGGTTTGGCAAGGACAAGTGTATCTCCAAACACGGGGAAGGCT
SNORA71_71-124MM2	AAGCACCAGGGTTTGGCAAGGACAAGTGTATCTCCAAACACGGGGAAGGCT
SNORA71_71-124_RC	AGCCTTTCCCGGTGTTGGAGGATCACACTTGTCTTGCACCAACCTGTGCTT
SNORD113_19-72	GTGAACCTCAGACTCTCAGACGATAGTCATAATACAGACTCATACAGCACCC
SNORD113_19-72MM1	GTGAACCTCAGACTCTCAGACGATAGTCATAATACAGACTCATACAGCACCC
SNORD113_19-72MM2	GTGAACCTCAGACTCTCAGACGATAGTCATAATACAGACTCATACAGCACCC
SNORD113_19-72_RC	GGTGCTGTATGAGTGTGTATTATGATATGCGTCTGAGAGTCTGAGTTTAC
SNORD113_9-67	CCTCAGACTCTCAGACGATAGTCATAATACAGACTCATACAGCACCCAGTCATCA
SNORD113_9-67MM1	CCTCAGACTCTCAGACGATAGTCATAATACAGACTCATACAGCACCCAGTCATCA
SNORD113_9-67MM2	CCTCAGACTCTCAGACGATAGTCATAATACAGACTCATACAGCACCCAGTCATCA
SNORD113_9-67_RC	TGATGACTGTGGGTGCTGTATGATGCTGTATTATGACTATGCGTCTGAGAGTCTGAGG
SNORD55_29-75	CGCTCAGCTCTCCAAAGTTGGGCTCCCGACGACGAGTGGGAGTGT
SNORD55_29-75MM1	CGCTCAGCTCTCCAAAGTTGGGCTCCCGACGACGAGTGGGAGTGT
SNORD55_29-75MM2	CGCTCAGCTCTCCAAAGTTGGGCTCCCGACGACGAGTGGGAGTGT
SNORD55_29-75_RC	ACACTCCGAGTGTGACGATACCCAGGTGTCTATCCG
SNORD55_3-41	CAGTGGGAGTGTGACGATACCCAGGTGTCTATCCG
SNORD55_3-41MM1	CAGTGGGAGTGTGACGATACCCAGGTGTCTATCCG
SNORD55_3-41MM2	CAGTGGGAGTGTGACGATACCCAGGTGTCTATCCG
SNORD55_3-41_RC	CGGATGATGACACTGGGTATGCTGCACACTCCGAGT
SNORD81_10-58	CTGTCTCAAGTAATCAGTGAGAGATCCAAAGTTGGGGTGAGATCATCA
SNORD81_10-58MM1	CTGTCTCAAGTAATCAGTGAGAGATCCAAAGTTGGGGTGAGATCATCA
SNORD81_10-58MM2	CTGTCTCAAGTAATCAGTGAGAGATCCAAAGTTGGGGTGAGATCATCA
SNORD81_10-58_RC	TGATGATCTCACCCAACTTGGACTCTCTCACTGATTCTGATGACAG
SNORD81_2-58	CTGTCTCAAGTAATCAGTGAGAGATCCAAAGTTGGGGTGAGATCATCTGTCTCT
SNORD81_2-58MM1	CTGTCTCAAGTAATCAGTGAGAGATCCAAAGTTGGGGTGAGATCATCTGTCTCT
SNORD81_2-58MM2	CTGTCTCAAGTAATCAGTGAGAGATCCAAAGTTGGGGTGAGATCATCTGTCTCT
SNORD81_2-58_RC	AGGACACATGATGATCTCACCCCACTTGGACTCTCTCACTGATTACTTGACAG
SNORD239_6-60	TACATCAGAAAGCGTTTACAGTATCATTTATTCATACTGATTTCCTTCATCACA
SNORD239_6-60MM1	TACATCAGAAAGCGTTTACAGTATCATTTATTCATACTGATTTCCTTCATCACA
SNORD239_6-60MM2	TACATCAGAAAGCGTTTACAGTATCATTTATTCATACTGATTTCCTTCATCACA
SNORD239_6-60_RC	TGTGATGAAGCAATCAGTATGAATAAATGATACCTGAAACGCTTCTGATGTA
IRNALys_1-59	CTGGAACCCACGACCTGGGATTAAGAGTCCCATGCTCTACCGACTGAGCTAGCCGGGC
IRNALys_1-59D1	CTGGAACCCACGACCTGGGATTAAGAGTCCCATGCTCTACCGACTGAGCTAGCCGGGC
IRNALys_1-59D2	CTGGAACCCACGACCTGGGATTAAGAGTCCCATGCTCTACCGACTGAGCTAGCCGGGC
IRNALys_1-59MM1	CTGGAACCCACGACCTGGGATTAAGAGTCCCATGCTCTACCGACTGAGCTAGCCGGGC
IRNALys_1-59MM2	CTGGAACCCACGACCTGGGATTAAGAGTCCCATGCTCTACCGACTGAGCTAGCCGGGC
IRNALys_1-59_RC	GCCCGGCTAGCTCAGTGGTAGAGATGGGACTCTTAATCCAGGGGTGGGGTTGAG
IRNALys_40-69	CAACGTGGGGCTGAAACCCACGACCTGGG
IRNALys_40-69MM1	CAACGTGGGGCTGAAACCCACGACCTGGG
IRNALys_40-69MM2	CAACGTGGGGCTGAAACCCACGACCTGGG
IRNALys_40-69_RC	CCGAGGGTGTGGGTCGAGCCACCCAGCTTG
IRNAPhe_16-75	GGTGCCGAAACCCGGGATCGAACCCAGGGACCTTTAGATCTTCAGTCTAACGCTCTCCAA
IRNAPhe_16-75MM1	GGTGCCGAAACCCGGGATCGAACCCAGGGACCTTTAGATCTTCAGTCTAACGCTCTCCAA
IRNAPhe_16-75MM2	GGTGCCGAAACCCGGGATCGAACCCAGGGACCTTTAGATCTTCAGTCTAACGCTCTCCAA
IRNAPhe_16-75_RC	TTGGGAGAGCGTTAGACTGAAGATCTAAAGGTCCCTGGTTCGATCCCGGGTTGGGACCC
IRNAPhe_47-76	TGGTGCCGAAACCCGGGATCGAACCCAGGG
IRNAPhe_47-76MM1	TGGTGCCGAAACCCGGGATCGAACCCAGGG
IRNAPhe_47-76MM2	TGGTGCCGAAACCCGGGATCGAACCCAGGG
IRNAPhe_47-76_RC	TCCTTGGTTCGATCCCGGGTTTGGGACCA



Supplementary Table 1

UniqueID	Name	ES vs Brain total RNA	UniqueID	Name	ES vs Brain total RNA
1L17	hsa_SNORD13	-2.0010154	5B7	mmu-miR-23a	2.4401088
1N18	hsa_SNORD2	-1.9591408	1E9	mmu-miR-23b	2.5244708
1M18	hsa_SNORD3@	-1.3929354	1F9	mmu-miR-24	2.584994
5N14	hsa-let-7a	3.9104207	1H9	mmu-miR-26a	3.1850955
5C8	hsa-miR-106a	-2.200453	1K9	mmu-miR-27b	2.5625648
2L11	hsa-miR-371-5p	-2.7227075	6M5	mmu-miR-291b-5p	-3.5358765
1D17	hsa-miR-498	-1.9325277	2I18	mmu-miR-292-3p	-4.7475047
1I17	hsa-miR-503	-1.1462102	2K18	mmu-miR-293	-4.643447
2A5	hsa-miR-659	-1.0401192	2L18	mmu-miR-294	-4.5158563
2H5	hsa-miR-9*	3.751164	2M18	mmu-miR-295	-4.7702394
2G14	miRPlus_17890	-1.3811024	1P9	mmu-miR-29a	3.3800652
2I13	miRPlus_17952	-1.176801	1L10	mmu-miR-30a	3.1322336
5D2	miRPlus_21472	-1.5241518	1M10	mmu-miR-30b	3.0904121
5E4	miRPlus_27561	-2.174772	1N10	mmu-miR-30c	2.9647126
3E18	mmu-let-7a	3.8383002	1O10	mmu-miR-30d	3.6222904
5H14	mmu-let-7b	1.044384	1O11	mmu-miR-335-5p	2.2869596
1C1	mmu-let-7c	2.6271546	1A12	mmu-miR-338-3p	2.3757057
5D14	mmu-let-7d	3.1397784	5N9	mmu-miR-369-3p	2.4375849
1E1	mmu-let-7e	1.5860898	5J10	mmu-miR-374	1.8789672
1G1	mmu-let-7g	3.562132	2C21	mmu-miR-467b	-1.3100047
1H1	mmu-let-7i	4.08837	5H2	mmu-miR-668	-1.0478611
1L1	mmu-miR-103	2.9407806	2H22	mmu-miR-677	-2.3486063
5G7	mmu-miR-107	3.2431517	2I22	mmu-miR-678	-1.3342453
1G2	mmu-miR-124	3.7746544	2P22	mmu-miR-685	-1.1779056
1H2	mmu-miR-125a-5p	2.6573153	2D23	mmu-miR-689	-3.6705205
5N11	mmu-miR-125b-5p	3.75356	2E24	mmu-miR-706	-2.4139588
5A14	mmu-miR-128a/128b	3.7520082	5D9	mmu-miR-708	1.1890153
2E7	mmu-miR-129-3p	2.9990404	2G5	mmu-miR-9	3.8342102
1I3	mmu-miR-138	3.6429393	5E14	mmu-miR-9*	2.2085142
1A5	mmu-miR-16	1.7949975	2N5	mmu-miR-98	3.8455708
5B8	mmu-miR-17	-2.3353066	7J2	SNORA71_14-66	-2.1912198
1E6	mmu-miR-191	1.9610482	7K2	SNORA71_14-66MM1	-2.1310618
1L6	mmu-miR-195	3.7988846	7N2	SNORA71_71-124	-2.476882
1J7	mmu-miR-200b	1.7533876	7O2	SNORA71_71-124MM1	-2.3021042
1F7	mmu-miR-20a	-2.3012671	7P2	SNORA71_71-124MM2	-2.4302258
1L8	mmu-miR-218	3.9354165	7N3	SNORD55_3-41	-1.0061008
1N8	mmu-miR-22	2.191882	1A2	U6-snRNA-1	-1.3984196
			1B2	U6-snRNA-2	-1.2016013

Supplementary Table 2