
Noradrenergic activation of the basolateral amygdala facilitates memory specificity for similar events experienced close in time

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Supplementary Table 1

Training and retention test latencies (Mean $\pm$ SEM, in seconds) of animals shown in Figure 1 and 4

Figure 1b	Training ¹		Retention test ²		
	Non-Shock	Shock	Shock	Non-Shock	New
Saline ($n=13$)	9.5 $\pm$ 0.8	9.6 $\pm$ 0.9	66.3 $\pm$ 19.0 ³	55.9 $\pm$ 22.7 ³	6.3 $\pm$ 0.8
NE ($n=12$)	10.2 $\pm$ 0.9	9.6 $\pm$ 1.0	217.0 $\pm$ 53.3 ³	7.9 $\pm$ 1.5	8.7 $\pm$ 2.2

Figure 1d	Training ⁴		Retention test ²		
	Shock	Non-Shock	Shock	Non-Shock	New
Saline ($n=12$)	14.3 $\pm$ 1.4	13.6 $\pm$ 1.6	58.9 $\pm$ 14.8 ³	52.3 $\pm$ 13.1 ³	10.9 $\pm$ 2.2
NE ($n=11$)	18.5 $\pm$ 3.9	20.1 $\pm$ 4.6	206.3 $\pm$ 41.5 ³	16.2 $\pm$ 3.6	19.3 $\pm$ 8.4

Figure 4c	Training ⁵		Retention test ²		
	Non-Shock	Shock	Shock	Non-Shock	New
Saline ($n=10$)	9.3 $\pm$ 0.8	8.5 $\pm$ 0.6	61.8 $\pm$ 16.4 ³	17.0 $\pm$ 3.2	10.6 $\pm$ 2.3
NE ($n=11$)	8.3 $\pm$ 0.8	8.7 $\pm$ 0.8	147.1 $\pm$ 22.8 ³	19.6 $\pm$ 3.0 ³	9.5 $\pm$ 1.1

Figure 4e	Training ⁵		Retention test ²		
	Non-Shock	Shock	Shock	Non-Shock	New
Non-target ($n=11$)	26.9 $\pm$ 12.9	9.7 $\pm$ 1.2	49.1 $\pm$ 8.3 ³	15.1 $\pm$ 2.7	17.1 $\pm$ 4.1
Mimic-134 ($n=10$)	14.9 $\pm$ 2.0	8.8 $\pm$ 1.1	54.4 $\pm$ 10.6 ³	43.1 $\pm$ 3.6 ³	10.5 $\pm$ 2.8

Figure 4k	Training ⁵		Retention test ²		
	Non-Shock	Shock	Shock	Non-Shock	New
Saline ($n=11$)	13.6 $\pm$ 2.1	9.1 $\pm$ 0.7	60.7 $\pm$ 19.0 ³	9.9 $\pm$ 4.9	9.3 $\pm$ 1.5
Prop ($n=12$)	10.3 $\pm$ 1.4	9.2 $\pm$ 0.7	31.8 $\pm$ 5.6 ³	39.8 $\pm$ 5.6 ³	11.0 $\pm$ 2.2

¹Rats were trained first in the Non-Shock box and 1 min later in the Shock box

²Retention testing in the Shock box, Non-Shock box and New box was in a randomized order and without delays

³ $P < 0.01$ vs training latencies, indicating memory of footshock

⁴Rats were trained first in the Shock box and 1 min later in the Non-Shock box

⁵Rats were trained first in the Non-Shock box and 2 min later in the Shock box

Extended Data Table 2**Effect of NE administration into the BLA on miR levels within the dDG**

	Trained			Home cage		
	Saline	NE	Log2FC	Saline	NE	Log2FC
rno-miR-322-5p	29	13	-1.16	13	19	0.55
rno-miR-322-3p	8	0		6	13	1.12
rno-miR-323-5p	27	18	-0.58	19	23	0.28
rno-miR-323-3p	515	186	-1.47	212	321	0.60
rno-miR-301a-5p	4	4	0.00	3	4	0.42
rno-miR-301a-3p	441	191	-1.21	142	483	1.77
rno-miR-324-5p	537	148	-1.86	115	108	-0.09
rno-miR-324-3p	118	39	-1.60	53	111	1.07
rno-miR-325-5p	69	32	-1.11	22	22	0.00
rno-miR-325-3p	39	12	-1.70	22	27	0.30
rno-miR-326-5p	2	2	0.00	3	0	
rno-miR-326-3p	392	109	-1.85	92	163	0.83
rno-miR-327	3	1	-1.58	0	0	
rno-let-7d-5p	5998	2282	-1.39	2167	2789	0.36
rno-let-7d-3p	454	159	-1.51	169	221	0.39
rno-miR-328a-5p	2	2	0.00	1	0	
rno-miR-328a-3p	649	199	-1.71	136	161	0.24
rno-miR-329-5p	158	48	-1.72	29	65	1.16
rno-miR-329-3p	223	75	-1.57	61	214	1.81
rno-miR-330-5p	86	47	-0.87	43	22	-0.97
rno-miR-330-3p	721	280	-1.36	296	334	0.17
rno-miR-331-5p	9	13	0.53	4	5	0.32
rno-miR-331-3p	49	23	-1.09	13	28	1.11
rno-miR-140-5p	48	31	-0.63	22	45	1.03
rno-miR-140-3p	561	161	-1.80	204	263	0.37
rno-miR-335	454	232	-0.97	266	276	0.05
rno-miR-336-5p	4	0		1	1	0.00
rno-miR-336-3p	2	3	0.58	0	3	
rno-miR-337-5p	35	11	-1.67	23	12	-0.94
rno-miR-337-3p	69	24	-1.52	27	52	0.95
rno-miR-148b-5p	2	1	-1.00	4	1	-2.00
rno-miR-148b-3p	243	98	-1.31	107	215	1.01
rno-miR-338-5p	84	37	-1.18	68	18	-1.92
rno-miR-338-3p	660	318	-1.05	271	231	-0.23

rno-miR-339-5p	46	10	-2.20	12	11	-0.13
rno-miR-339-3p	2	0		2	0	
rno-miR-340-5p	84	30	-1.49	54	76	0.49
rno-miR-340-3p	15	3	-2.32	8	6	-0.42
rno-miR-341	52	32	-0.70	25	13	-0.94
rno-miR-342-5p	43	13	-1.73	9	13	0.53
rno-miR-342-3p	1244	460	-1.44	494	373	-0.41
rno-miR-343	1	2	1.00	0	0	
rno-miR-344a-5p	7	7	0.00	7	1	-2.81
rno-miR-344a-3p	289	99	-1.55	91	257	1.50
rno-miR-345-5p	146	36	-2.02	49	90	0.88
rno-miR-345-3p	8	3	-1.42	2	3	0.58
rno-miR-346	173	75	-1.21	58	103	0.83
rno-miR-347	19	19	0.00	10	9	-0.15
rno-miR-349	3	1	-1.58	0	1	
rno-miR-129-5p	473	186	-1.35	174	173	-0.01
rno-miR-129-2-3p	2018	404	-2.32	470	1624	1.79
rno-miR-20a-5p	95	54	-0.81	56	67	0.26
rno-miR-20a-3p	2	0		1	1	0.00
rno-miR-350	27	10	-1.43	8	19	1.25
rno-miR-7a-5p	2303	899	-1.36	660	1595	1.27
rno-miR-7a-1-3p	59	42	-0.49	20	60	1.58
rno-miR-351-5p	27	10	-1.43	8	29	1.86
rno-miR-351-3p	8	0		0	0	
rno-miR-352	29	8	-1.86	6	10	0.74
rno-miR-135b-5p	10	8	-0.32	17	18	0.08
rno-miR-135b-3p	0	1		1	0	
rno-miR-151-5p	385	154	-1.32	152	137	-0.15
rno-miR-151-3p	97	56	-0.79	31	93	1.58
rno-miR-101b-5p	1	0		0	0	
rno-miR-101b-3p	614	291	-1.08	226	347	0.62
rno-let-7a-5p	5147	2674	-0.94	2604	3158	0.28
rno-let-7a-1-3p	21	17	-0.30	14	23	0.72
rno-let-7a-2-3p	0	1		0	1	
rno-let-7b-5p	16709	9341	-0.84	7279	7736	0.09
rno-let-7b-3p	121	44	-1.46	44	54	0.30
rno-let-7c-5p	19703	12161	-0.70	10967	10785	-0.02
rno-let-7c-1-3p	7	5	-0.49	4	5	0.32

rno-let-7c-2-3p	17	6	-1.50	11	24	1.13
rno-let-7e-5p	4125	2079	-0.99	1985	1605	-0.31
rno-let-7e-3p	23	5	-2.20	5	13	1.38
rno-let-7f-5p	5788	2737	-1.08	2952	4741	0.68
rno-let-7f-1-3p	5	3	-0.74	5	2	-1.32
rno-let-7f-2-3p	2	1	-1.00	0	0	
rno-let-7i-5p	2317	1030	-1.17	871	1896	1.12
rno-let-7i-3p	7	2	-1.81	2	9	2.17
rno-miR-7a-2-3p	92	44	-1.06	42	70	0.74
rno-miR-7b	266	115	-1.21	107	177	0.73
rno-miR-9a-5p	12782	6132	-1.06	4563	4691	0.04
rno-miR-9a-3p	4182	2112	-0.99	2825	5386	0.93
rno-miR-10a-5p	3	3	0.00	5	7	0.49
rno-miR-10a-3p	1	2	1.00	1	0	
rno-miR-10b-5p	0	0		0	2	
rno-miR-10b-3p	1	2	1.00	0	2	
rno-miR-15b-5p	262	121	-1.11	129	124	-0.06
rno-miR-15b-3p	5	3	-0.74	2	2	0.00
rno-miR-16-5p	2661	1048	-1.34	1089	891	-0.29
rno-miR-17-5p	140	59	-1.25	74	80	0.11
rno-miR-17-1-3p	14	21	0.58	3	6	1.00
rno-miR-18a-5p	31	9	-1.78	19	11	-0.79
rno-miR-19b-1-5p	0	1		0	0	
rno-miR-19b-3p	342	125	-1.45	154	333	1.11
rno-miR-19b-2-5p	0	0		0	0	
rno-miR-19a-5p	2	0		0	0	
rno-miR-19a-3p	36	28	-0.36	24	67	1.48
rno-miR-21-5p	813	410	-0.99	347	384	0.15
rno-miR-21-3p	3	2	-0.58	0	0	
rno-miR-22-5p	309	95	-1.70	76	122	0.68
rno-miR-22-3p	320	132	-1.28	124	397	1.68
rno-miR-23a-5p	4	7	0.81	3	3	0.00
rno-miR-23a-3p	1387	624	-1.15	749	933	0.32
rno-miR-23b-5p	5	4	-0.32	8	1	-3.00
rno-miR-23b-3p	2877	1044	-1.46	1164	1940	0.74
rno-miR-24-1-5p	12	3	-2.00	3	6	1.00
rno-miR-24-3p	2200	860	-1.36	888	1061	0.26
rno-miR-24-2-5p	18	5	-1.85	2	22	3.46

rno-miR-25-3p	12	11	-0.13	2	8	2.00
rno-miR-26a-5p	13369	6336	-1.08	6402	9647	0.59
rno-miR-26a-3p	9	2	-2.17	0	4	
rno-miR-26b-5p	212	139	-0.61	128	141	0.14
rno-miR-26b-3p	3	2	-0.58	1	1	0.00
rno-miR-27b-5p	11	2	-2.46	3	3	0.00
rno-miR-27b-3p	1135	492	-1.21	413	644	0.64
rno-miR-27a-5p	3	1	-1.58	1	1	0.00
rno-miR-27a-3p	384	159	-1.27	147	241	0.71
rno-miR-28-5p	25	18	-0.47	18	17	-0.08
rno-miR-28-3p	17	12	-0.50	2	12	2.58
rno-miR-29b-2-5p	141	64	-1.14	34	88	1.37
rno-miR-29b-3p	9346	4044	-1.21	3297	6712	1.03
rno-miR-29a-5p	47	33	-0.51	27	58	1.10
rno-miR-29a-3p	3185	1595	-1.00	1661	3707	1.16
rno-miR-29b-1-5p	6	4	-0.58	0	1	
rno-miR-29c-5p	153	41	-1.90	56	110	0.97
rno-miR-29c-3p	979	460	-1.09	496	427	-0.22
rno-miR-30c-5p	10410	5755	-0.86	5201	9909	0.93
rno-miR-30c-1-3p	10	3	-1.74	6	6	0.00
rno-miR-30e-5p	1695	668	-1.34	568	1604	1.50
rno-miR-30e-3p	97	49	-0.99	40	52	0.38
rno-miR-30b-5p	1952	875	-1.16	837	1965	1.23
rno-miR-30b-3p	5	0		3	3	0.00
rno-miR-30d-5p	1209	551	-1.13	542	1251	1.21
rno-miR-30d-3p	3	0		1	2	1.00
rno-miR-30a-5p	2102	936	-1.17	857	1940	1.18
rno-miR-30a-3p	55	31	-0.83	30	23	-0.38
rno-miR-30c-2-3p	9	2	-2.17	3	7	1.22
rno-miR-31a-5p	111	37	-1.58	46	79	0.78
rno-miR-31a-3p	7	11	0.65	2	10	2.32
rno-miR-32-5p	4	7	0.81	3	9	1.58
rno-miR-32-3p	2	1	-1.00	2	0	
rno-miR-33-5p	23	14	-0.72	4	19	2.25
rno-miR-33-3p	10	8	-0.32	3	8	1.42
rno-miR-34b-5p	50	16	-1.64	26	18	-0.53
rno-miR-34b-3p	12	5	-1.26	10	9	-0.15
rno-miR-34c-5p	146	78	-0.90	75	66	-0.18

rno-miR-34c-3p	15	8	-0.91	4	3	-0.42
rno-miR-34a-5p	1437	1235	-0.22	949	711	-0.42
rno-miR-34a-3p	1	2	1.00	0	0	
rno-miR-92a-1-5p	5	1	-2.32	2	0	
rno-miR-92a-3p	46	11	-2.06	6	23	1.94
rno-miR-92a-2-5p	3	2	-0.58	3	4	0.42
rno-miR-93-5p	212	103	-1.04	92	128	0.48
rno-miR-93-3p	21	6	-1.81	5	16	1.68
rno-miR-96-5p	4	5	0.32	0	3	
rno-miR-96-3p	179	237	0.40	45	51	0.18
rno-miR-98-5p	673	345	-0.96	276	469	0.76
rno-miR-98-3p	11	9	-0.29	6	16	1.42
rno-miR-99a-5p	3139	1405	-1.16	1259	2687	1.09
rno-miR-99a-3p	81	29	-1.48	30	29	-0.05
rno-miR-99b-5p	1059	425	-1.32	400	855	1.10
rno-miR-99b-3p	46	9	-2.35	22	27	0.30
rno-miR-100-5p	320	165	-0.96	179	318	0.83
rno-miR-100-3p	0	2		0	0	
rno-miR-101a-5p	24	10	-1.26	9	20	1.15
rno-miR-101a-3p	1652	703	-1.23	629	1113	0.82
rno-miR-103-2-5p	0	0		0	0	
rno-miR-103-3p	4778	1750	-1.45	1472	1502	0.03
rno-miR-103-1-5p	5	2	-1.32	0	4	
rno-miR-106b-5p	133	64	-1.06	86	145	0.75
rno-miR-106b-3p	11	0		5	8	0.68
rno-miR-107-5p	21	24	0.19	13	3	-2.12
rno-miR-107-3p	965	377	-1.36	303	322	0.09
rno-miR-122-5p	1	1	0.00	1	2	1.00
rno-miR-122-3p	27	26	-0.05	18	4	-2.17
rno-miR-124-5p	57	32	-0.83	14	51	1.87
rno-miR-124-3p	15667	5061	-1.63	9239	10445	0.18
rno-miR-125a-5p	8637	2752	-1.65	2563	5591	1.13
rno-miR-125a-3p	66	28	-1.24	12	24	1.00
rno-miR-125b-5p	13522	4749	-1.51	3615	8521	1.24
rno-miR-125b-1-3p	26	8	-1.70	8	15	0.91
rno-miR-125b-2-3p	225	76	-1.57	82	157	0.94
rno-miR-126a-5p	274	158	-0.79	163	295	0.86
rno-miR-126a-3p	2835	1054	-1.43	1072	1920	0.84

rno-miR-127-5p	96	22	-2.13	39	68	0.80
rno-miR-127-3p	1402	425	-1.72	302	1062	1.81
rno-miR-128-1-5p	5	2	-1.32	0	1	
rno-miR-128-3p	9272	3701	-1.32	4702	3045	-0.63
rno-miR-128-2-5p	3	0		5	2	-1.32
rno-miR-129-1-3p	86	29	-1.57	24	64	1.42
rno-miR-130a-5p	10	3	-1.74	1	0	
rno-miR-130a-3p	513	206	-1.32	190	407	1.10
rno-miR-130b-5p	2	2	0.00	0	1	
rno-miR-130b-3p	449	371	-0.28	145	117	-0.31
rno-miR-132-5p	173	41	-2.08	72	133	0.89
rno-miR-132-3p	682	293	-1.22	393	278	-0.50
rno-miR-133a-5p	3	7	1.22	2	6	1.58
rno-miR-133a-3p	0	1		0	1	
rno-miR-134-5p	397	254	-0.64	199	317	0.67
rno-miR-134-3p	0	1		0	0	
rno-miR-135a-5p	162	114	-0.51	119	225	0.92
rno-miR-135a-3p	26	14	-0.89	5	11	1.14
rno-miR-136-5p	283	140	-1.02	103	310	1.59
rno-miR-136-3p	87	46	-0.92	26	38	0.55
rno-miR-137-5p	20	12	-0.74	9	14	0.64
rno-miR-137-3p	898	358	-1.33	418	926	1.15
rno-miR-138-5p	5182	2078	-1.32	1951	3714	0.93
rno-miR-138-2-3p	142	57	-1.32	65	121	0.90
rno-miR-138-1-3p	102	37	-1.46	44	95	1.11
rno-miR-139-5p	2871	1132	-1.34	953	772	-0.30
rno-miR-139-3p	25	10	-1.32	16	4	-2.00
rno-miR-141-5p	4	1	-2.00	1	1	0.00
rno-miR-141-3p	2	3	0.58	2	2	0.00
rno-miR-142-5p	20	6	-1.74	13	13	0.00
rno-miR-142-3p	11	6	-0.87	9	8	-0.17
rno-miR-143-5p	8	5	-0.68	0	4	
rno-miR-143-3p	363	139	-1.38	132	371	1.49
rno-miR-144-5p	18	6	-1.58	5	3	-0.74
rno-miR-144-3p	8	4	-1.00	3	5	0.74
rno-miR-145-5p	1229	439	-1.49	376	747	0.99
rno-miR-145-3p	16	6	-1.42	0	2	
rno-miR-146a-5p	34	22	-0.63	29	42	0.53

rno-miR-146a-3p	0	0		1	0	
rno-miR-150-5p	509	194	-1.39	191	236	0.31
rno-miR-150-3p	3	2	-0.58	0	0	
rno-miR-152-5p	3	5	0.74	2	2	0.00
rno-miR-152-3p	13	8	-0.70	16	23	0.52
rno-miR-153-5p	47	29	-0.70	12	11	-0.13
rno-miR-153-3p	176	53	-1.73	52	144	1.47
rno-miR-154-5p	38	19	-1.00	22	46	1.06
rno-miR-154-3p	22	8	-1.46	9	9	0.00
rno-miR-181c-5p	875	355	-1.30	251	618	1.30
rno-miR-181c-3p	9	3	-1.58	4	5	0.32
rno-miR-181a-5p	1506	484	-1.64	423	1237	1.55
rno-miR-181a-2-3p	6	1	-2.58	0	1	
rno-miR-181b-5p	1022	487	-1.07	322	292	-0.14
rno-miR-181b-1-3p	1	1	0.00	4	0	
rno-miR-181b-2-3p	200	109	-0.88	79	37	-1.09
rno-miR-183-5p	5	1	-2.32	5	3	-0.74
rno-miR-184	20	20	0.00	18	10	-0.85
rno-miR-185-5p	950	371	-1.36	481	652	0.44
rno-miR-185-3p	47	31	-0.60	16	19	0.25
rno-miR-186-5p	80	42	-0.93	39	42	0.11
rno-miR-186-3p	2	16	3.00	5	3	-0.74
rno-miR-187-5p	2	0		1	1	0.00
rno-miR-187-3p	222	74	-1.58	62	87	0.49
rno-miR-190a-5p	57	23	-1.31	26	64	1.30
rno-miR-190a-3p	6	9	0.58	0	1	
rno-miR-191a-5p	6121	3165	-0.95	2233	4297	0.94
rno-miR-191a-3p	6	0		7	1	-2.81
rno-miR-192-5p	41	17	-1.27	19	31	0.71
rno-miR-192-3p	1	0		0	2	
rno-miR-193-5p	12	7	-0.78	5	9	0.85
rno-miR-193-3p	14	8	-0.81	3	21	2.81
rno-miR-194-5p	26	18	-0.53	11	15	0.45
rno-miR-194-3p	2	0		0	1	
rno-miR-195-5p	391	245	-0.67	262	160	-0.71
rno-miR-195-3p	1	0		0	1	
rno-miR-196a-5p	1	1	0.00	3	1	-1.58
rno-miR-196a-3p	15	13	-0.21	4	8	1.00

rno-miR-199a-5p	2	3	0.58	0	2	
rno-miR-199a-3p	19	12	-0.66	15	14	-0.10
rno-miR-200c-5p	4	27	2.75	3	1	-1.58
rno-miR-200c-3p	81	112	0.47	27	19	-0.51
rno-miR-200a-5p	0	2		0	0	
rno-miR-200a-3p	2	1	-1.00	0	0	
rno-miR-200b-5p	1	0		0	0	
rno-miR-200b-3p	117	96	-0.29	35	29	-0.27
rno-miR-203a-5p	1	0		0	0	
rno-miR-203a-3p	14	6	-1.22	4	18	2.17
rno-miR-204-5p	785	255	-1.62	198	457	1.21
rno-miR-204-3p	30	14	-1.10	12	11	-0.13
rno-miR-205	65	25	-1.38	20	32	0.68
rno-miR-206-5p	3	1	-1.58	0	0	
rno-miR-206-3p	11	6	-0.87	10	8	-0.32
rno-miR-208a-5p	4	1	-2.00	0	0	
rno-miR-208a-3p	0	1		0	0	
rno-miR-210-5p	5	5	0.00	4	2	-1.00
rno-miR-210-3p	4	3	-0.42	9	8	-0.17
rno-miR-211-5p	16	6	-1.42	9	17	0.92
rno-miR-211-3p	0	1		0	0	
rno-miR-212-5p	7	2	-1.81	2	9	2.17
rno-miR-212-3p	187	112	-0.74	112	113	0.01
rno-miR-181a-1-3p	28	14	-1.00	10	13	0.38
rno-miR-214-5p	1	2	1.00	1	3	1.58
rno-miR-214-3p	11	10	-0.14	3	12	2.00
rno-miR-216a-5p	3	3	0.00	1	1	0.00
rno-miR-216a-3p	5	6	0.26	3	2	-0.58
rno-miR-217-5p	1	1	0.00	1	0	
rno-miR-217-3p	0	0		0	1	
rno-miR-218a-5p	2406	1123	-1.10	990	2000	1.01
rno-miR-218a-2-3p	13	9	-0.53	7	17	1.28
rno-miR-218a-1-3p	0	0		0	1	
rno-miR-219a-5p	26	8	-1.70	10	14	0.49
rno-miR-219a-1-3p	2	2	0.00	0	1	
rno-miR-219a-2-3p	244	115	-1.09	58	214	1.88
rno-miR-221-5p	50	20	-1.32	23	53	1.20
rno-miR-221-3p	4760	1700	-1.49	934	960	0.04

rno-miR-222-5p	6	1	-2.58	0	1	
rno-miR-222-3p	3719	1312	-1.50	981	1135	0.21
rno-miR-223-5p	1	0		0	0	
rno-miR-223-3p	13	10	-0.38	2	13	2.70
rno-miR-290	0	1		0	0	
rno-miR-291a-5p	4	3	-0.42	3	6	1.00
rno-miR-291a-3p	0	3		1	3	1.58
rno-miR-292-5p	30	13	-1.21	24	23	-0.06
rno-miR-292-3p	2	4	1.00	2	2	0.00
rno-miR-296-5p	27	9	-1.58	6	16	1.42
rno-miR-296-3p	19	10	-0.93	4	5	0.32
rno-miR-297	1	1	0.00	1	0	
rno-miR-298-5p	18	5	-1.85	3	13	2.12
rno-miR-298-3p	4	4	0.00	2	0	
rno-miR-299a-5p	15	7	-1.10	6	19	1.66
rno-miR-299a-3p	3	2	-0.58	6	9	0.58
rno-miR-300-5p	56	15	-1.90	35	53	0.60
rno-miR-300-3p	360	118	-1.61	138	295	1.10
rno-miR-320-5p	0	0		0	0	
rno-miR-320-3p	499	211	-1.24	215	212	-0.02
rno-miR-196b-5p	54	53	-0.03	44	26	-0.76
rno-miR-196b-3p	7	2	-1.81	2	0	
rno-miR-421-5p	5	11	1.14	1	4	2.00
rno-miR-421-3p	28	14	-1.00	8	17	1.09
rno-miR-448-5p	7	3	-1.22	7	3	-1.22
rno-miR-448-3p	3	0		1	1	0.00
rno-miR-429	0	2		1	0	
rno-miR-449a-5p	29	47	0.70	46	26	-0.82
rno-miR-449a-3p	1	0		0	0	
rno-miR-450a-5p	11	6	-0.87	1	9	3.17
rno-miR-450a-3p	2	1	-1.00	1	1	0.00
rno-miR-365-3p	311	148	-1.07	110	211	0.94
rno-miR-431	14	3	-2.22	10	4	-1.32
rno-miR-433-5p	19	8	-1.25	6	19	1.66
rno-miR-433-3p	1710	553	-1.63	296	546	0.88
rno-miR-451-5p	40	28	-0.51	15	35	1.22
rno-miR-451-3p	1	2	1.00	0	0	
rno-miR-489-5p	14	5	-1.49	5	16	1.68

rno-miR-489-3p	3	9	1.58	0	6	
rno-miR-383-5p	125	85	-0.56	64	59	-0.12
rno-miR-383-3p	2	3	0.58	2	4	1.00
rno-miR-207	2	1	-1.00	0	2	
rno-miR-501-5p	28	11	-1.35	3	11	1.87
rno-miR-501-3p	4	5	0.32	2	3	0.58
rno-miR-361-5p	426	204	-1.06	205	140	-0.55
rno-miR-361-3p	92	29	-1.67	22	41	0.90
rno-miR-215	26	17	-0.61	6	5	-0.26
rno-miR-224-5p	1	2	1.00	1	0	
rno-miR-224-3p	2	1	-1.00	0	2	
rno-miR-483-5p	4	5	0.32	0	2	
rno-miR-483-3p	15	9	-0.74	3	4	0.42
rno-miR-370-5p	1	1	0.00	1	2	1.00
rno-miR-370-3p	12	8	-0.58	2	7	1.81
rno-miR-377-5p	21	21	0.00	13	5	-1.38
rno-miR-377-3p	21	15	-0.49	10	26	1.38
rno-miR-412-5p	33	10	-1.72	13	31	1.25
rno-miR-412-3p	4	3	-0.42	2	0	
rno-miR-1-5p	7	4	-0.81	1	2	1.00
rno-miR-1-3p	21	9	-1.22	14	12	-0.22
rno-miR-133b-5p	5	5	0.00	4	0	
rno-miR-133b-3p	2	5	1.32	2	0	
rno-miR-540-5p	11	1	-3.46	6	5	-0.26
rno-miR-540-3p	11	11	0.00	10	8	-0.32
rno-miR-543-5p	17	4	-2.09	2	4	1.00
rno-miR-543-3p	137	34	-2.01	49	95	0.96
rno-miR-539-5p	166	89	-0.90	112	118	0.08
rno-miR-539-3p	72	30	-1.26	32	103	1.69
rno-miR-541-5p	242	78	-1.63	71	189	1.41
rno-miR-541-3p	9	2	-2.17	2	2	0.00
rno-miR-542-5p	16	16	0.00	2	9	2.17
rno-miR-542-3p	67	46	-0.54	28	42	0.58
rno-miR-493-5p	27	19	-0.51	12	14	0.22
rno-miR-493-3p	1	0		0	0	
rno-miR-379-5p	440	165	-1.42	198	197	-0.01
rno-miR-379-3p	67	30	-1.16	33	83	1.33
rno-miR-494-5p	0	4		2	0	

rno-miR-494-3p	93	40	-1.22	59	118	1.00
rno-miR-376c-5p	3	0		0	1	
rno-miR-376c-3p	164	80	-1.04	57	32	-0.83
rno-miR-376b-5p	50	22	-1.18	26	12	-1.12
rno-miR-376b-3p	254	80	-1.67	88	210	1.25
rno-miR-376a-5p	26	16	-0.70	14	37	1.40
rno-miR-376a-3p	227	73	-1.64	76	184	1.28
rno-miR-381-5p	56	42	-0.42	21	28	0.42
rno-miR-381-3p	14	11	-0.35	9	8	-0.17
rno-miR-487b-5p	1	5	2.32	1	4	2.00
rno-miR-487b-3p	216	74	-1.55	88	144	0.71
rno-miR-382-5p	837	446	-0.91	296	421	0.51
rno-miR-382-3p	10	3	-1.74	11	18	0.71
rno-miR-485-5p	113	38	-1.57	47	68	0.53
rno-miR-485-3p	130	56	-1.22	52	16	-1.70
rno-miR-409a-5p	95	30	-1.66	38	119	1.65
rno-miR-409a-3p	1	1	0.00	0	0	
rno-miR-369-5p	46	21	-1.13	21	56	1.42
rno-miR-369-3p	163	86	-0.92	52	97	0.90
rno-miR-374-5p	146	72	-1.02	163	216	0.41
rno-miR-374-3p	2	1	-1.00	1	0	
rno-miR-363-5p	8	23	1.52	19	8	-1.25
rno-miR-20b-5p	14	5	-1.49	4	3	-0.42
rno-miR-20b-3p	3	4	0.42	1	4	2.00
rno-miR-503-5p	55	20	-1.46	28	26	-0.11
rno-miR-503-3p	8	2	-2.00	4	1	-2.00
rno-miR-378a-5p	9	4	-1.17	3	2	-0.58
rno-miR-378a-3p	81	52	-0.64	33	80	1.28
rno-miR-505-5p	73	15	-2.28	27	44	0.70
rno-miR-505-3p	10	0		2	10	2.32
rno-miR-499-5p	35	16	-1.13	13	8	-0.70
rno-miR-499-3p	68	59	-0.20	19	26	0.45
rno-miR-664-1-5p	8	4	-1.00	5	1	-2.32
rno-miR-664-3p	1257	535	-1.23	656	1175	0.84
rno-miR-664-2-5p	32	27	-0.25	18	15	-0.26
rno-miR-497-5p	248	184	-0.43	138	128	-0.11
rno-miR-497-3p	121	91	-0.41	45	29	-0.63
rno-miR-466b-5p	3	0		4	6	0.58

rno-miR-466b-1-3p	14	1	-3.81	4	8	1.00
rno-miR-466b-2-3p	7	1	-2.81	2	3	0.58
rno-miR-466c-5p	18	3	-2.58	4	8	1.00
rno-miR-466c-3p	1	0		0	0	
rno-miR-743b-5p	2	5	1.32	1	2	1.00
rno-miR-743b-3p	0	0		0	0	
rno-miR-871-5p	18	7	-1.36	1	2	1.00
rno-miR-871-3p	4	2	-1.00	0	5	
rno-miR-872-5p	37	23	-0.69	25	27	0.11
rno-miR-872-3p	23	7	-1.72	12	16	0.42
rno-miR-874-5p	29	26	-0.16	7	7	0.00
rno-miR-874-3p	4	1	-2.00	1	0	
rno-miR-877	60	20	-1.58	11	19	0.79
rno-miR-878	3	0		0	1	
rno-miR-879-5p	3	7	1.22	5	2	-1.32
rno-miR-879-3p	4	4	0.00	2	4	1.00
rno-miR-880-5p	0	1		0	0	
rno-miR-880-3p	7	4	-0.81	5	4	-0.32
rno-miR-881-5p	20	9	-1.15	14	6	-1.22
rno-miR-883-5p	1	2	1.00	1	0	
rno-miR-147	2	3	0.58	1	0	
rno-miR-17-2-3p	1	0		1	2	1.00
rno-miR-181d-5p	41	16	-1.36	19	7	-1.44
rno-miR-181d-3p	5	3	-0.74	0	2	
rno-miR-182	2	2	0.00	0	1	
rno-miR-188-5p	18	9	-1.00	7	10	0.51
rno-miR-188-3p	8	0		6	4	-0.58
rno-miR-190b-5p	6	4	-0.58	2	4	1.00
rno-miR-190b-3p	1	2	1.00	0	0	
rno-miR-196c-5p	0	2		0	0	
rno-miR-196c-3p	1	2	1.00	1	2	1.00
rno-miR-301b-3p	1	2	1.00	4	1	-2.00
rno-miR-375-5p	22	13	-0.76	17	8	-1.09
rno-miR-375-3p	0	0		0	1	
rno-miR-380-5p	20	7	-1.51	4	13	1.70
rno-miR-380-3p	99	36	-1.46	33	105	1.67
rno-miR-384-5p	1571	634	-1.31	750	1503	1.00
rno-miR-384-3p	138	82	-0.75	60	167	1.48

rno-miR-410-5p	29	36	0.31	11	16	0.54
rno-miR-410-3p	82	24	-1.77	28	81	1.53
rno-miR-411-5p	80	54	-0.57	38	100	1.40
rno-miR-411-3p	40	13	-1.62	13	58	2.16
rno-miR-423-5p	160	43	-1.90	59	67	0.18
rno-miR-423-3p	62	18	-1.78	18	20	0.15
rno-miR-425-5p	117	35	-1.74	44	86	0.97
rno-miR-425-3p	5	4	-0.32	4	6	0.58
rno-miR-434-5p	100	49	-1.03	51	87	0.77
rno-miR-434-3p	259	149	-0.80	155	351	1.18
rno-miR-455-5p	8	4	-1.00	8	9	0.17
rno-miR-455-3p	202	50	-2.01	40	20	-1.00
rno-miR-463-5p	2	1	-1.00	2	1	-1.00
rno-miR-463-3p	1	2	1.00	0	0	
rno-miR-471-5p	3	2	-0.58	0	1	
rno-miR-484	29	20	-0.54	8	19	1.25
rno-miR-495	407	139	-1.55	189	118	-0.68
rno-miR-500-5p	2	2	0.00	0	0	
rno-miR-500-3p	40	14	-1.51	5	9	0.85
rno-miR-532-5p	7	5	-0.49	5	8	0.68
rno-miR-532-3p	25	3	-3.06	2	4	1.00
rno-miR-598-5p	3	1	-1.58	0	1	
rno-miR-598-3p	82	40	-1.04	38	26	-0.55
rno-miR-671	7	2	-1.81	3	6	1.00
rno-miR-672-5p	203	98	-1.05	83	15	-2.47
rno-miR-672-3p	2	0		2	1	-1.00
rno-miR-673-5p	2	2	0.00	1	1	0.00
rno-miR-673-3p	6	2	-1.58	2	5	1.32
rno-miR-674-5p	216	87	-1.31	77	181	1.23
rno-miR-674-3p	58	31	-0.90	26	33	0.34
rno-miR-708-5p	65	18	-1.85	28	45	0.68
rno-miR-708-3p	15	9	-0.74	13	13	0.00
rno-miR-742-5p	6	3	-1.00	3	0	
rno-miR-742-3p	1	2	1.00	1	1	0.00
rno-miR-743a-3p	0	1		0	0	
rno-miR-758-5p	1	2	1.00	0	0	
rno-miR-758-3p	19	12	-0.66	8	8	0.00
rno-miR-760-5p	1	2	1.00	2	1	-1.00

rno-miR-760-3p	61	9	-2.76	24	6	-2.00
rno-miR-770-5p	61	25	-1.29	19	25	0.40
rno-miR-770-3p	3	3	0.00	1	2	1.00
rno-miR-873-5p	87	21	-2.05	23	38	0.72
rno-miR-873-3p	7	1	-2.81	1	5	2.32
rno-miR-92b-5p	29	6	-2.27	6	7	0.22
rno-miR-92b-3p	1079	367	-1.56	305	600	0.98
rno-miR-488-5p	0	2		0	0	
rno-miR-488-3p	5	1	-2.32	7	10	0.51
rno-miR-652-5p	46	13	-1.82	11	35	1.67
rno-miR-652-3p	174	85	-1.03	84	140	0.74
rno-miR-146b-5p	506	282	-0.84	238	515	1.11
rno-miR-146b-3p	7	0		0	6	
rno-miR-551b-5p	7	8	0.19	5	5	0.00
rno-miR-551b-3p	352	144	-1.29	155	255	0.72
rno-miR-202-5p	0	0		0	0	
rno-miR-490-5p	5	0		0	2	
rno-miR-490-3p	10	4	-1.32	3	7	1.22
rno-miR-105	1	1	0.00	1	0	
rno-miR-1224	48	40	-0.26	14	19	0.44
rno-miR-362-5p	2	0		0	1	
rno-miR-362-3p	5	0		1	1	0.00
rno-miR-511-5p	1	3	1.58	0	1	
rno-miR-511-3p	7	3	-1.22	1	1	0.00
rno-miR-504	115	55	-1.06	29	78	1.43
rno-miR-544-5p	2	2	0.00	0	1	
rno-miR-544-3p	5	0		2	0	
rno-miR-582-5p	73	37	-0.98	29	74	1.35
rno-miR-582-3p	58	27	-1.10	27	40	0.57
rno-miR-592	14	12	-0.22	1	3	1.58
rno-miR-615	16	7	-1.19	6	2	-1.58
rno-miR-628	3	5	0.74	1	0	
rno-miR-632	1	1	0.00	0	0	
rno-miR-653-5p	1	2	1.00	0	1	
rno-miR-653-3p	15	7	-1.10	7	11	0.65
rno-miR-668	59	26	-1.18	24	25	0.06
rno-miR-802-5p	4	10	1.32	1	5	2.32
rno-miR-802-3p	2	0		0	0	

rno-miR-675-5p	2	1	-1.00	0	0	
rno-miR-675-3p	0	4		0	0	
rno-miR-875	4	4	0.00	1	3	1.58
rno-miR-876	0	2		1	1	0.00
rno-miR-665	36	14	-1.36	19	15	-0.34
rno-miR-935	314	92	-1.77	73	155	1.09
rno-miR-201-5p	1	1	0.00	0	1	
rno-miR-201-3p	1	3	1.58	0	0	
rno-miR-293-5p	0	1		3	1	-1.58
rno-miR-294	6	8	0.42	5	3	-0.74
rno-miR-295-5p	4	1	-2.00	0	0	
rno-miR-295-3p	1	2	1.00	0	1	
rno-miR-465-5p	0	1		0	0	
rno-miR-465-3p	2	2	0.00	0	1	
rno-miR-547-5p	3	2	-0.58	3	0	
rno-miR-547-3p	537	340	-0.66	188	313	0.74
rno-miR-667-5p	10	4	-1.32	0	2	
rno-miR-667-3p	672	281	-1.26	252	456	0.86
rno-miR-764-5p	2	5	1.32	7	3	-1.22
rno-miR-764-3p	4	2	-1.00	2	3	0.58
rno-miR-666-5p	1	0		2	0	
rno-miR-666-3p	36	10	-1.85	12	29	1.27
rno-miR-759	4	8	1.00	3	4	0.42
rno-miR-678	0	0		0	1	
rno-miR-711	7	3	-1.22	1	0	
rno-miR-496-5p	0	0		0	0	
rno-miR-496-3p	85	22	-1.95	32	62	0.95
rno-miR-3541	11	9	-0.29	2	3	0.58
rno-miR-3542	11	3	-1.87	1	1	0.00
rno-miR-3543	302	163	-0.89	171	343	1.00
rno-miR-3544	5	3	-0.74	5	9	0.85
rno-miR-203b-5p	8	6	-0.42	2	11	2.46
rno-miR-3546	3	2	-0.58	2	2	0.00
rno-miR-3547	11	7	-0.65	5	3	-0.74
rno-miR-449c-5p	1	0		2	1	-1.00
rno-miR-449c-3p	6	0		0	1	
rno-miR-3085	49	20	-1.29	21	14	-0.58
rno-miR-3548	0	0		0	0	

rno-miR-3550	8	5	-0.68	0	2	
rno-miR-3551-5p	35	17	-1.04	11	10	-0.14
rno-miR-3551-3p	1	0		2	2	0.00
rno-miR-344b-5p	11	2	-2.46	2	5	1.32
rno-miR-344b-2-3p	198	76	-1.38	106	200	0.92
rno-miR-3552	1	0		0	0	
rno-miR-3553	6	8	0.42	4	2	-1.00
rno-miR-3074	4	2	-1.00	1	3	1.58
rno-miR-31b	1	4	2.00	0	2	
rno-miR-191b	1	0		1	2	1.00
rno-miR-3556b	168	86	-0.97	59	88	0.58
rno-miR-3557-5p	352	180	-0.97	177	314	0.83
rno-miR-3557-3p	12	5	-1.26	1	5	2.32
rno-miR-3556a	114	83	-0.46	52	111	1.09
rno-miR-291b	4	1	-2.00	0	1	
rno-miR-3596d	484	253	-0.94	176	421	1.26
rno-miR-466d	2	2	0.00	2	0	
rno-miR-3558-3p	5	12	1.26	8	4	-1.00
rno-miR-3559-5p	22	12	-0.87	11	39	1.83
rno-miR-3559-3p	55	56	0.03	34	22	-0.63
rno-miR-3560	3	0		0	1	
rno-miR-3561-5p	2	1	-1.00	0	0	
rno-miR-3561-3p	1	0		0	0	
rno-miR-3562	4	0		6	2	-1.58
rno-miR-299b-5p	0	0		1	0	
rno-miR-299b-3p	0	0		0	0	
rno-miR-9b-5p	107	66	-0.70	61	124	1.02
rno-miR-9b-3p	5	6	0.26	1	1	0.00
rno-miR-218b	80	33	-1.28	25	51	1.03
rno-miR-3065-5p	5	20	2.00	9	4	-1.17
rno-miR-3065-3p	17	5	-1.77	6	10	0.74
rno-miR-126b	11	10	-0.14	2	5	1.32
rno-miR-208b-5p	1	1	0.00	2	0	
rno-miR-216b-5p	0	0		1	0	
rno-miR-216b-3p	2	2	0.00	0	0	
rno-miR-3568	2	0		0	0	
rno-miR-3569	1	0		0	0	
rno-miR-3570	24	10	-1.26	15	21	0.49

rno-miR-3571	4	0		2	3	0.58
rno-miR-1949	21	12	-0.81	5	2	-1.32
rno-miR-3572	6	13	1.12	4	5	0.32
rno-miR-1188-5p	9	4	-1.17	8	2	-2.00
rno-miR-1188-3p	11	3	-1.87	1	0	
rno-miR-3573-5p	0	1		2	2	0.00
rno-miR-3573-3p	11	1	-3.46	0	5	
rno-miR-1193-5p	1	0		1	1	0.00
rno-miR-1193-3p	8	5	-0.68	6	7	0.22
rno-miR-3574	13	4	-1.70	2	11	2.46
rno-miR-3576	167	86	-0.96	84	130	0.63
rno-miR-3577	1	1	0.00	0	3	
rno-miR-1912-5p	4	2	-1.00	1	3	1.58
rno-miR-1912-3p	0	1		0	1	
rno-miR-3578	39	18	-1.12	29	57	0.97
rno-miR-3579	3	0		3	1	-1.58
rno-miR-3580-5p	0	0		0	1	
rno-miR-3580-3p	9	3	-1.58	2	5	1.32
rno-miR-409b	46	12	-1.94	16	41	1.36
rno-miR-3596b	4	3	-0.42	9	2	-2.17
rno-miR-133c	1	1	0.00	1	1	0.00
rno-miR-3583-5p	5	3	-0.74	0	2	
rno-miR-3583-3p	0	1		2	0	
rno-miR-3584-3p	1	4	2.00	0	0	
rno-miR-3596c	720	336	-1.10	338	281	-0.27
rno-miR-3585-5p	1	1	0.00	1	0	
rno-miR-3585-3p	25	20	-0.32	18	15	-0.26
rno-miR-3586-5p	0	0		0	0	
rno-miR-3586-3p	773	313	-1.30	275	280	0.03
rno-miR-219b	12	9	-0.42	5	12	1.26
rno-miR-3587	25	25	0.00	13	17	0.39
rno-miR-702-5p	5	0		0	0	
rno-miR-702-3p	8	9	0.17	13	7	-0.89
rno-miR-3596a	5020	2589	-0.96	2695	2974	0.14
rno-miR-3588	13446	4684	-1.52	3527	8569	1.28
rno-miR-3589	209	76	-1.46	44	132	1.58
rno-miR-3590-5p	16	11	-0.54	11	15	0.45
rno-miR-3590-3p	6	3	-1.00	1	3	1.58

rno-miR-2985	8	0		1	5	2.32
rno-miR-1249	76	38	-1.00	20	15	-0.42
rno-miR-3591	0	0		1	0	
rno-miR-344b-1-3p	24	12	-1.00	24	22	-0.13
rno-miR-3592	12	4	-1.58	8	14	0.81
rno-miR-3593-5p	0	0		0	0	
rno-miR-3593-3p	3	3	0.00	1	5	2.32
rno-miR-3120	6	5	-0.26	4	3	-0.42
rno-miR-741-3p	0	0		0	0	
rno-miR-3595	11	6	-0.87	3	11	1.87
rno-miR-328b-3p	22	1	-4.46	4	0	
rno-miR-1199-5p	0	0		0	1	
rno-miR-1199-3p	2	0		0	0	
rno-miR-1839-5p	66	29	-1.19	37	74	1.00
rno-miR-1839-3p	30	5	-2.58	5	33	2.72
rno-miR-3068-5p	193	94	-1.04	88	194	1.14
rno-miR-3068-3p	114	61	-0.90	81	69	-0.23
rno-miR-1843-5p	23	9	-1.35	10	20	1.00
rno-miR-1843-3p	14	15	0.10	15	12	-0.32
rno-miR-509-5p	4	1	-2.00	1	1	0.00
rno-miR-509-3p	3	0		0	0	
rno-miR-1306-5p	26	7	-1.89	12	10	-0.26
rno-miR-1306-3p	3	2	-0.58	0	0	
rno-miR-3473	17	12	-0.50	14	4	-1.81
rno-miR-6215	29	13	-1.16	15	18	0.26
rno-miR-378b	1	0		0	1	
rno-miR-6216	12	11	-0.13	13	2	-2.70
rno-miR-6314	3	0		3	0	
rno-miR-3099	129	53	-1.28	48	23	-1.06
rno-miR-344i	10	8	-0.32	6	3	-1.00
rno-miR-6315	1	0		0	0	
rno-miR-3102	106	41	-1.37	22	44	1.00
rno-miR-344g	2	1	-1.00	2	1	-1.00
rno-miR-6316	40	25	-0.68	14	9	-0.64
rno-miR-6317	2	0		0	1	
rno-miR-6319	0	3		0	2	
rno-miR-3075	2	0		0	2	
rno-miR-6321	13	9	-0.53	1	2	1.00

rno-miR-1298	3	3	0.00	0	0	
rno-miR-6323	1	5	2.32	4	3	-0.42
rno-miR-6324	8	2	-2.00	4	3	-0.42
rno-miR-6325	1	0		0	1	
rno-miR-6326	1	0		0	0	
rno-miR-6327	5	2	-1.32	0	3	
rno-miR-6328	1	4	2.00	0	0	
rno-miR-6329	3	5	0.74	2	4	1.00
rno-miR-6330	0	1		2	0	
rno-miR-6331	25	12	-1.06	17	11	-0.63
rno-miR-3072	82	37	-1.15	29	43	0.57
rno-miR-679	4	0		0	0	
rno-miR-6332	1	0		0	0	
rno-miR-6333	1	0		0	1	
rno-miR-6334	7	2	-1.81	1	1	0.00
rno-miR-7578	0	0		1	0	
rno-miR-155-5p	21	12	-0.81	15	20	0.42
rno-miR-155-3p	2	2	0.00	3	5	0.74
rno-miR-16-3p	1	1	0.00	1	2	1.00
rno-miR-18a-3p	0	0		1	0	
rno-miR-183-3p	1	1	0.00	1	0	
rno-miR-881-3p	3	1	-1.58	0	1	
rno-miR-471-3p	4	0		1	0	
rno-miR-743a-5p	2	0		0	0	
rno-miR-202-3p	5	2	-1.32	0	0	
rno-miR-293-3p	4	1	-2.00	0	1	
rno-miR-761	3	4	0.42	1	0	
rno-miR-203b-3p	1	1	0.00	0	0	
rno-miR-3558-5p	4	2	-1.00	1	0	
rno-miR-3564	1	3	1.58	1	2	1.00
rno-miR-3566	1	0		0	0	
rno-miR-344a	2	4	1.00	1	0	
rno-miR-208b-3p	3	1	-1.58	0	0	
rno-miR-3575	1	0		0	0	
rno-miR-3594-5p	4	4	0.00	5	0	
rno-miR-3594-3p	3	2	-0.58	0	1	
rno-miR-741-5p	0	0		1	0	
rno-miR-6318	0	0		3	0	

rno-miR-6320	0	1		0	2	
rno-miR-6322	4	0		1	0	
rno-miR-25-5p	0	0		0	3	
rno-miR-365-5p	1	0		1	1	0.00
rno-miR-883-3p	6	2	-1.58	1	1	0.00
rno-miR-301b-5p	0	0		0	0	
rno-miR-3549	0	0		0	0	
rno-miR-363-3p	0	0		0	0	
rno-miR-3584-5p	2	0		0	0	
rno-miR-568	1	0		0	0	

Trained rats: pooled data from $n=10$ rats; Home cage rats: pooled data from $n=9$ rats. NE, norepinephrine; Log2FC, Log2 fold change.

Extended Data Table 3

Overview of all non-templated 3' additions of hairpin miR-134 found after training on the dual-event inhibitory avoidance task with a 1-min or 2-min interval

	Number of reads			Percentage of total reads		
	1 min mean $\pm$ s.e.m. (<i>n</i> =3)	2 min mean $\pm$ s.e.m. (<i>n</i> =3)	<i>P</i>	1 min mean $\pm$ s.e.m. (<i>n</i> =3)	2 min mean $\pm$ s.e.m. (<i>n</i> =3)	<i>P</i>
3'-A ¹	49.0 $\pm$ 8.4	57.3 $\pm$ 14.9	0.65	30.5 $\pm$ 2.5	52.0 $\pm$ 3.8	0.009
3'-C	0.5 $\pm$ 0.5	1.3 $\pm$ 1.3	0.59	0.2 $\pm$ 0.2	0.9 $\pm$ 0.9	0.51
3'-G	3.2 $\pm$ 3.2	0.0 $\pm$ 0.0	0.37	3.3 $\pm$ 1.7	0.0 $\pm$ 0.0	0.12
3'-T ²	33.3 $\pm$ 1.3	14.7 $\pm$ 8.9	0.11	21.8 $\pm$ 3.6	11.2 $\pm$ 6.4	0.22
3'-AA ¹	42.2 $\pm$ 5.0	20.1 $\pm$ 5.7	0.04	26.6 $\pm$ 0.5	21.6 $\pm$ 7.8	0.56
3'-AC	1.4 $\pm$ 1.4	0.0 $\pm$ 0.0	0.37	0.7 $\pm$ 0.7	0.0 $\pm$ 0.0	0.37
3'-AG	1.6 $\pm$ 1.6	0.0 $\pm$ 0.0	0.37	1.3 $\pm$ 1.3	0.0 $\pm$ 0.0	0.37
3'-AT ²	9.7 $\pm$ 3.7	9.6 $\pm$ 2.0	0.97	6.3 $\pm$ 2.3	9.8 $\pm$ 2.5	0.36
3'-CG	0.3 $\pm$ 0.3	0.0 $\pm$ 0.0	0.37	0.2 $\pm$ 0.2	0.0 $\pm$ 0.0	0.37
3'-CT ²	2.0 $\pm$ 2.0	0.0 $\pm$ 0.0	0.37	1.2 $\pm$ 1.2	0.0 $\pm$ 0.0	0.37
3'-TC	0.8 $\pm$ 0.8	0.0 $\pm$ 0.0	0.37	0.6 $\pm$ 0.6	0.0 $\pm$ 0.0	0.37
3'-TT ²	0.9 $\pm$ 0.9	0.0 $\pm$ 0.0	0.37	0.5 $\pm$ 0.5	0.0 $\pm$ 0.0	0.37
3'-AAT ²	6.5 $\pm$ 4.9	1.9 $\pm$ 1.9	0.43	4.7 $\pm$ 3.6	1.4 $\pm$ 1.4	0.44
3'-AGT ²	2.3 $\pm$ 2.3	0.0 $\pm$ 0.0	0.37	1.4 $\pm$ 1.4	0.0 $\pm$ 0.0	0.37
3'-ATT ²	1.4 $\pm$ 1.4	0.0 $\pm$ 0.0	0.37	0.7 $\pm$ 0.7	0.0 $\pm$ 0.0	0.37
3'-CGA ¹	0.9 $\pm$ 0.9	0.0 $\pm$ 0.0	0.37	0.5 $\pm$ 0.0	0.0 $\pm$ 0.0	0.37

Data are shown both as number of reads as well as percentage of total reads

¹Sequence variant included in analysis of A-ending in Fig. 4i

²Sequence variant included in analysis of T-ending in Fig. 4i