

Supplementary Material

Identification of miRNA Changes in Alzheimer's Disease Brain and CSF Yields Putative Biomarkers and Insights into Disease Pathways

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Table S1
Composition of qRT-PCR multi-plex pools

count	miRNA name	Applied Biosystems part number	BR5,6 profile	RT pool BR5,6	BR3,4 profile	RT pool BR3,4	CSF profile	RT pool CSF
1	hsa-let-7a	4373169	yes	G	yes	1	yes	1
2	hsa-let-7b	4373168	yes	E	yes	1	yes	1
3	hsa-let-7c	4373167	yes	F	yes	1	yes	1
4	hsa-let-7d	4373166	yes	B	yes	1	yes	1
5	hsa-let-7e	4373165	yes	B	yes	1	yes	1
6	hsa-let-7f	4373164	yes	G	yes	5	yes	1
7	hsa-let-7g	4373163	yes	C	yes	1	yes	1
8	hsa-let-7i	4373162	yes	F				
9	hsa-miR-1	4373161	yes	C	yes	2	yes	1
10	hsa-miR-100	4373160	yes	D	yes	3	yes	1
11	hsa-miR-101	4373159	yes	B	yes	3	yes	1
12	hsa-miR-103	4373158	yes	A	yes	2	yes	1
13	hsa-miR-105	4373157			yes	5	yes	1
14	hsa-miR-106a	4373156					yes	1
15	hsa-miR-106b	4373155	yes	C	yes	5	yes	1
16	hsa-miR-107	4373154	yes	D	yes	1	yes	1
17	hsa-miR-10a	4373153	yes	A	yes	1	yes	1
18	hsa-miR-10b	4373152	yes	B	yes	1	yes	1
19	hsa-miR-122a	4373151	yes	B	yes	5	yes	1
20	hsa-miR-124a	4373150	yes	A	yes	5	yes	1
21	hsa-miR-125a	4373149	yes	A	yes	2	yes	1
22	hsa-miR-125b	4373148	yes	D	yes	2	yes	1
23	hsa-miR-126	4378064			yes	5	yes	1
24	hsa-miR-126*	4373269	yes	B	yes	3	yes	1
25	hsa-miR-127	4373147	yes	B	yes	3	yes	1
26	hsa-miR-128a	4373146	yes	G			yes	1
27	hsa-miR-128b	4373170	yes	G	yes	5	yes	1
28	hsa-miR-129	4373171	yes	G	yes	5	yes	1
29	hsa-miR-130a	4373145	yes	B	yes	5	yes	1
30	hsa-miR-130b	4373144	yes	B	yes	5	yes	1
31	hsa-miR-132	4373143	yes	B	yes	3	yes	1
32	hsa-miR-133a	4373142	yes	B	yes	3	yes	1
33	hsa-miR-133b	4373172	yes	G	yes	3	yes	1
34	hsa-miR-134	4373141	yes	B	yes	4	yes	1
35	hsa-miR-135a	4373140	yes	D	yes	3	yes	1
36	hsa-miR-135b	4373139	yes	B	yes	3	yes	1
37	hsa-miR-136	4373173					yes	1
38	hsa-miR-137	4373174	yes	G	yes	1	yes	1
39	hsa-miR-138	4373175	yes	G			yes	1
40	hsa-miR-139	4373176	yes	E	yes	5	yes	1
41	hsa-miR-140	4373138	yes	B	yes	5	yes	1
42	hsa-miR-141	4373137	yes	B	yes	1	yes	1
43	hsa-miR-142-3p	4373136	yes	B	yes	1	yes	1
44	hsa-miR-142-5p	4373135	yes	B	yes	1	yes	1
45	hsa-miR-143	4373134	yes	B	yes	5	yes	1
46	hsa-miR-145	4373133	yes	B	yes	5	yes	1
47	hsa-miR-146a	4373132	yes	D	yes	1	yes	1
48	hsa-miR-146b	4373178	yes	B	yes	1	yes	1
49	hsa-miR-147	4373131	yes	C	yes	4	yes	1
50	hsa-miR-148a	4373130	yes	B	yes	3	yes	1
51	hsa-miR-148b	4373129	yes	B	yes	3	yes	1
52	hsa-miR-149	4373128	yes	B	yes	4	yes	1
53	hsa-miR-150	4373127	yes	D			yes	1
54	hsa-miR-151	4373179	yes	G	yes	4	yes	1
55	hsa-miR-152	4373126	yes	A	yes	2	yes	1

Table S1, continued

count	miRNA name	Applied Biosystems part number	BR5,6 profile	RT pool BR5,6	BR3,4 profile	RT pool BR3,4	CSF profile	RT pool CSF
56	hsa-miR-153	4373125	yes	C	yes	4	yes	1
57	hsa-miR-154	4373270	yes	C			yes	1
58	hsa-miR-154*	4378065					yes	1
59	hsa-miR-155	4373124	yes	C	yes	1	yes	1
60	hsa-miR-15a	4373123	yes	C	yes	6	yes	1
61	hsa-miR-15b	4373122	yes	A	yes	6	yes	1
62	hsa-miR-16	4373121	yes	C	yes	5	yes	1
63	hsa-miR-17-3p	4373120	yes	C	yes	1	yes	1
64	hsa-miR-17-5p	4373119	yes	C	yes	1	yes	1
65	hsa-miR-181a	4373117	yes	C			yes	1
66	hsa-miR-181b	4373116	yes	A	yes	1		
67	hsa-miR-181c	4373115	yes	D	yes	1	yes	1
68	hsa-miR-181d	4373180	yes	A	yes	1	yes	1
69	hsa-miR-182	4373271	yes	G	yes	4	yes	1
70	hsa-miR-182*	4378066			yes	5	yes	1
71	hsa-miR-183	4373114	yes	C	yes	2	yes	1
72	hsa-miR-184	4373113	yes	C	yes	3	yes	1
73	hsa-miR-185	4373181			yes	5	yes	1
74	hsa-miR-186	4373112	yes	D	yes	4	yes	1
75	hsa-miR-187	4373111	yes	F	yes	4	yes	1
76	hsa-miR-189	4378067			yes	5	yes	1
77	hsa-miR-18a	4373118	yes	G	yes	1	yes	1
78	hsa-miR-18a*	4378091					yes	1
79	hsa-miR-18b	4373184			yes	5	yes	1
80	hsa-miR-190	4373110	yes	D	yes	4	yes	1
81	hsa-miR-191	4373109	yes	C	yes	1	yes	1
82	hsa-miR-192	4373108	yes	D	yes	3	yes	1
83	hsa-miR-193a	4373107	yes	G	yes	4	yes	1
84	hsa-miR-193b	4373185	yes	E	yes	4	yes	1
85	hsa-miR-194	4373106	yes	B	yes	3	yes	1
86	hsa-miR-195	4373105	yes	C	yes	5	yes	1
87	hsa-miR-196a	4373104	yes	E	yes	4	yes	1
88	hsa-miR-196b	4373103	yes	C	yes	4	yes	1
89	hsa-miR-197	4373102	yes	A	yes	4	yes	1
90	hsa-miR-198	4373101	yes	E	yes	3	yes	1
91	hsa-miR-199a	4373272	yes	A	yes	6	yes	1
92	hsa-miR-199a*	4378068			yes	6	yes	1
93	hsa-miR-199b	4373100	yes	C	yes	6	yes	1
94	hsa-miR-19a	4373099	yes	A	yes	1	yes	1
95	hsa-miR-19b	4373098	yes	A	yes	1	yes	1
96	hsa-miR-200a	4378069			yes	5	yes	1
97	hsa-miR-200a*	4373273	yes	E	yes	1	yes	1
98	hsa-miR-200c	4373096	yes	A	yes	1	yes	1
99	hsa-miR-202	4378075			yes	5	yes	1
100	hsa-miR-202*	4373274	yes	G	yes	5	yes	1
101	hsa-miR-203	4373095	yes	C	yes	3	yes	1
102	hsa-miR-204	4373094	yes	A	yes	3	yes	1
103	hsa-miR-205	4373093	yes	G	yes	4	yes	1
104	hsa-miR-206	4373092	yes	C	yes	3	yes	1
105	hsa-miR-208	4373091	yes	C	yes	4	yes	1
106	hsa-miR-20a	4373286	yes	D	yes	1	yes	1
107	hsa-miR-20b	4373263	yes	A	yes	1	yes	1
108	hsa-miR-21	4373090	yes	A	yes	1	yes	1
109	hsa-miR-210	4373089	yes	C	yes	2	yes	1
110	hsa-miR-211	4373088	yes	C	yes	3	yes	1
111	hsa-miR-212	4373087	yes	G				
112	hsa-miR-213	4373086	yes	C	yes	4	yes	1
113	hsa-miR-214	4373085	yes	E	yes	4	yes	1
114	hsa-miR-215	4373084	yes	A	yes	1	yes	1
115	hsa-miR-216	4373083	yes	A	yes	3	yes	1

Table S1, continued

count	miRNA name	Applied Biosystems part number	BR5,6 profile	RT pool BR5,6	BR3,4 profile	RT pool BR3,4	CSF profile	RT pool CSF
116	hsa-miR-217	4373082	yes	C	yes	3	yes	1
117	hsa-miR-218	4373081	yes	A	yes	1	yes	1
118	hsa-miR-219	4373080	yes	G	yes	6	yes	1
119	hsa-miR-22	4373079	yes	G	yes	5	yes	1
120	hsa-miR-220	4373078	yes	A	yes	4	yes	1
121	hsa-miR-221	4373077	yes	A	yes	1	yes	1
122	hsa-miR-222	4373076	yes	D	yes	2	yes	1
123	hsa-miR-223	4373075	yes	D	yes	1	yes	1
124	hsa-miR-224	4373187	yes	G	yes	3	yes	1
125	hsa-miR-23a	4373074	yes	C	yes	5	yes	1
126	hsa-miR-23b	4373073	yes	B	yes	4	yes	1
127	hsa-miR-24	4373072	yes	B	yes	1	yes	1
128	hsa-miR-25	4373071	yes	A	yes	6	yes	1
129	hsa-miR-26a	4373070	yes	D	yes	2	yes	1
130	hsa-miR-26b	4373069	yes	A	yes	2	yes	1
131	hsa-miR-27a	4373287	yes	A	yes	2	yes	1
132	hsa-miR-27b	4373068	yes	G	yes	2	yes	1
133	hsa-miR-28	4373067	yes	A	yes	4	yes	1
134	hsa-miR-296	4373066	yes	D	yes	2	yes	1
135	hsa-miR-299-3p	4373189			yes	5	yes	1
136	hsa-miR-299-5p	4373188	yes	G	yes	3	yes	1
137	hsa-miR-29a	4373065	yes	D	yes	5	yes	1
138	hsa-miR-29b	4373288	yes	G			yes	1
139	hsa-miR-29c	4373289	yes	D	yes	5	yes	1
140	hsa-miR-301	4373064	yes	E	yes	1	yes	1
141	hsa-miR-302a	4378070			yes	5	yes	1
142	hsa-miR-302a*	4373275	yes	A	yes	2	yes	1
143	hsa-miR-302b	4378071			yes	5	yes	1
144	hsa-miR-302b*	4373276	yes	G	yes	5	yes	1
145	hsa-miR-302c	4378072			yes	5	yes	1
146	hsa-miR-302c*	4373277	yes	D	yes	2	yes	1
147	hsa-miR-302d	4373063	yes	D	yes	2	yes	1
148	hsa-miR-30a-3p	4373062	yes	A	yes	3	yes	1
149	hsa-miR-30a-5p	4373061	yes	D	yes	3	yes	1
150	hsa-miR-30b	4373290	yes	G	yes	3	yes	1
151	hsa-miR-30c	4373060	yes	A	yes	3	yes	1
152	hsa-miR-30d	4373059	yes	D	yes	3	yes	1
153	hsa-miR-30e-3p	4373057	yes	B	yes	3		
154	hsa-miR-30e-5p	4373058	yes	G	yes	6		
155	hsa-miR-31	4373190	yes	E	yes	3	yes	1
156	hsa-miR-32	4373056	yes	A	yes	4	yes	1
157	hsa-miR-320	4373055	yes	A	yes	4	yes	1
158	hsa-miR-323	4373054	yes	G	yes	6	yes	1
159	hsa-miR-324-3p	4373053	yes	B	yes	2	yes	1
160	hsa-miR-324-5p	4373052	yes	D	yes	2	yes	1
161	hsa-miR-325	4373051	yes	G	yes	4	yes	1
162	hsa-miR-326	4373050	yes	B	yes	4	yes	1
163	hsa-miR-328	4373049	yes	A	yes	4	yes	1
164	hsa-miR-329	4373191			yes	5	yes	1
165	hsa-miR-33	4373048	yes	B	yes	5	yes	1
166	hsa-miR-330	4373047	yes	A	yes	3	yes	1
167	hsa-miR-331	4373046	yes	G	yes	4	yes	1
168	hsa-miR-335	4373045	yes	B	yes	3	yes	1
169	hsa-miR-337	4373044	yes	A	yes	4	yes	1
170	hsa-miR-338	4373043	yes	C	yes	6	yes	1
171	hsa-miR-339	4373042	yes	D	yes	4	yes	1
172	hsa-miR-340	4373041	yes	E	yes	4	yes	1
173	hsa-miR-342	4373040	yes	B	yes	4	yes	1
174	hsa-miR-345	4373039	yes	A	yes	1	yes	1
175	hsa-miR-346	4373038	yes	D			yes	1

Table S1, continued

count	miRNA name	Applied Biosystems part number	BR5,6 profile	RT pool BR5,6	BR3,4 profile	RT pool BR3,4	CSF profile	RT pool CSF
176	hsa-miR-34a	4373278	yes	B	yes	1	yes	1
177	hsa-miR-34b	4373037	yes	A	yes	1	yes	1
178	hsa-miR-34c	4373036	yes	D	yes	1	yes	1
179	hsa-miR-361	4373035	yes	D	yes	4	yes	1
180	hsa-miR-362	4378092			yes	5	yes	1
181	hsa-miR-365	4373194	yes	E	yes	4	yes	1
182	hsa-miR-367	4373034	yes	D	yes	2	yes	1
183	hsa-miR-368	4373033	yes	D	yes	6	yes	1
184	hsa-miR-369-3p	4373032	yes	B	yes	5	yes	1
185	hsa-miR-369-5p	4373195	yes	E	yes	2	yes	1
186	hsa-miR-370	4373031					yes	1
187	hsa-miR-371	4373030	yes	D	yes	3	yes	1
188	hsa-miR-372	4373029	yes	E	yes	1	yes	1
189	hsa-miR-373	4378073			yes	6	yes	1
190	hsa-miR-373*	4373279	yes	E			yes	1
191	hsa-miR-374	4373028	yes	B	yes	4	yes	1
192	hsa-miR-375	4373027	yes	E	yes	1	yes	1
193	hsa-miR-376a	4373026	yes	E	yes	5	yes	1
194	hsa-miR-376a*	4378104					yes	1
195	hsa-miR-376b	4373196			yes	5	yes	1
196	hsa-miR-378	4373024	yes	D	yes	1	yes	1
197	hsa-miR-379	4373023	yes	D	yes	3	yes	1
198	hsa-miR-380-3p	4373022	yes	C	yes	4	yes	1
199	hsa-miR-380-5p	4373021			yes	5	yes	1
200	hsa-miR-381	4373020	yes	B	yes	3	yes	1
201	hsa-miR-382	4373019	yes	E	yes	6	yes	1
202	hsa-miR-383	4373018	yes	B	yes	3	yes	1
203	hsa-miR-384	4373017					yes	1
204	hsa-miR-409-5p	4373197	yes	E	yes	3	yes	1
205	hsa-miR-410	4378093			yes	5	yes	1
206	hsa-miR-412	4373199			yes	5	yes	1
207	hsa-miR-422a	4373200	yes	G	yes	4	yes	1
208	hsa-miR-422b	4373016	yes	E	yes	4	yes	1
209	hsa-miR-423	4373015	yes	B	yes	2	yes	1
210	hsa-miR-424	4373201	yes	G	yes	6	yes	1
211	hsa-miR-425	4373202	yes	E	yes	4	yes	1
212	hsa-miR-429	4373203	yes	E	yes	4	yes	1
213	hsa-miR-432	4373280	yes	E	yes	3	yes	1
214	hsa-miR-432*	4378076			yes	5	yes	1
215	hsa-miR-433	4373205	yes	C	yes	3	yes	1
216	hsa-miR-448	4373206			yes	6	yes	1
217	hsa-miR-449	4373207	yes	C	yes	2	yes	1
218	hsa-miR-450	4373208	yes	G	yes	6	yes	1
219	hsa-miR-451	4373209	yes	E	yes	6	yes	1
220	hsa-miR-452	4373281	yes	G	yes	6	yes	1
221	hsa-miR-452*	4378077			yes	6	yes	1
222	hsa-miR-453	4373210			yes	6	yes	1
223	hsa-miR-455	4378098					yes	1
224	hsa-miR-483	4378094					yes	1
225	hsa-miR-485-3p	4378095			yes	6	yes	1
226	hsa-miR-485-5p	4373212	yes	G	yes	3	yes	1
227	hsa-miR-486	4378096			yes	6	yes	1
228	hsa-miR-487a	4378097					yes	1
229	hsa-miR-487b	4378102					yes	1
230	hsa-miR-488	4373213			yes	6	yes	1
231	hsa-miR-489	4373214	yes	E	yes	3	yes	1
232	hsa-miR-490	4373215	yes	E	yes	6		
233	hsa-miR-491	4373216	yes	E	yes	4	yes	1
234	hsa-miR-492	4373217			yes	6	yes	1
235	hsa-miR-493	4373218			yes	6	yes	1

Table S1, continued

count	miRNA name	Applied Biosystems part number	BR5,6 profile	RT pool BR5,6	BR3,4 profile	RT pool BR3,4	CSF profile	RT pool CSF
236	hsa-miR-493-3p	4378100					yes	1
237	hsa-miR-494	4373219	yes	E	yes	3	yes	1
238	hsa-miR-495	4373220					yes	1
239	hsa-miR-496	4373221	yes	E	yes	4	yes	1
240	hsa-miR-497	4373222	yes	G	yes	2	yes	1
241	hsa-miR-498	4373223					yes	1
242	hsa-miR-499	4373224					yes	1
243	hsa-miR-500	4373225	yes	E	yes	4	yes	1
244	hsa-miR-501	4373226	yes	E	yes	2	yes	1
245	hsa-miR-502	4373227	yes	G	yes	4	yes	1
246	hsa-miR-503	4373228			yes	6	yes	1
247	hsa-miR-504	4373229			yes	6	yes	1
248	hsa-miR-505	4373230	yes	G	yes	6	yes	1
249	hsa-miR-506	4373231	yes	F	yes	3	yes	1
250	hsa-miR-507	4373232			yes	6	yes	1
251	hsa-miR-508	4373233	yes	F	yes	3	yes	1
252	hsa-miR-509	4373234	yes	F	yes	2	yes	1
253	hsa-miR-510	4373235	yes	G	yes	2	yes	1
254	hsa-miR-511	4373236	yes	F	yes	2	yes	1
255	hsa-miR-512-5p	4373238	yes	G	yes	5	yes	1
256	hsa-miR-513	4373239	yes	G	yes	6	yes	1
257	hsa-miR-514	4373240	yes	F	yes	2	yes	1
258	hsa-miR-515-3p	4373241	yes	F	yes	2	yes	1
259	hsa-miR-515-5p	4373242	yes	F	yes	2	yes	1
260	hsa-miR-516-3p	4373183	yes	G				
261	hsa-miR-516-5p	4378099			yes	6	yes	1
262	hsa-miR-517*	4378078			yes	6	yes	1
263	hsa-miR-517a	4373243	yes	F	yes	2	yes	1
264	hsa-miR-517b	4373244	yes	F	yes	2	yes	1
265	hsa-miR-517c	4373264	yes	F	yes	2	yes	1
266	hsa-miR-518a	4373186	yes	F	yes	2	yes	1
267	hsa-miR-518b	4373246	yes	F	yes	2	yes	1
268	hsa-miR-518c	4373247	yes	F	yes	2	yes	1
269	hsa-miR-518c*	4378082			yes	6	yes	1
270	hsa-miR-518d	4373248	yes	G	yes	2	yes	1
271	hsa-miR-518e	4373265	yes	F	yes	2	yes	1
272	hsa-miR-518f	4378083			yes	6	yes	1
273	hsa-miR-519a	4373249					yes	1
274	hsa-miR-519b	4373250	yes	G	yes	6	yes	1
275	hsa-miR-519c	4373251	yes	F	yes	6	yes	1
276	hsa-miR-519d	4373266	yes	F	yes	6	yes	1
277	hsa-miR-519e	4373267	yes	F	yes	6	yes	1
278	hsa-miR-519e*	4378084					yes	1
279	hsa-miR-520a	4373268	yes	A	yes	2	yes	1
280	hsa-miR-520a*	4378085					yes	1
281	hsa-miR-520b	4373252	yes	F	yes	2	yes	1
282	hsa-miR-520c	4373253	yes	F	yes	2	yes	1
283	hsa-miR-520d	4373254	yes	F	yes	2	yes	1
284	hsa-miR-520d*	4378086					yes	1
285	hsa-miR-520e	4373255	yes	A	yes	2	yes	1
286	hsa-miR-520f	4373256	yes	F	yes	2	yes	1
287	hsa-miR-520g	4373257	yes	F	yes	2	yes	1
288	hsa-miR-520h	4373258	yes	F	yes	2	yes	1
289	hsa-miR-521	4373259	yes	F	yes	3	yes	1
290	hsa-miR-522	4373245	yes	F	yes	6	yes	1
291	hsa-miR-523	4373260	yes	F	yes	6	yes	1
292	hsa-miR-525	4378088					yes	1
293	hsa-miR-525*	4378079					yes	1
294	hsa-miR-526a	4373261	yes	F			yes	1
295	hsa-miR-526b	4373284	yes	F			yes	1

Table S1, continued

count	miRNA name	Applied Biosystems part number	BR5,6 profile	RT pool BR5,6	BR3,4 profile	RT pool BR3,4	CSF profile	RT pool CSF
296	hsa-miR-526b*	4378080						
297	hsa-miR-526c	4378089			yes	6	yes	1
298	hsa-miR-539	4378103					yes	1
299	hsa-miR-542-3p	4378101					yes	1
300	hsa-miR-542-5p	4378105					yes	1
301	hsa-miR-7	4373014	yes	C	yes	4	yes	1
302	hsa-miR-9	4373285	yes	G	yes	1	yes	1
303	hsa-miR-9*	4378074			yes	5	yes	1
304	hsa-miR-92	4373013	yes	D	yes	1	yes	1
305	hsa-miR-93	4373012	yes	G	yes	1	yes	1
306	hsa-miR-95	4373011	yes	A	yes	3	yes	1
307	hsa-miR-96	4373010	yes	D	yes	6	yes	1
308	hsa-miR-98	4373009	yes	G	yes	4		
309	hsa-miR-99a	4373008	yes	C	yes	5	yes	1
310	hsa-miR-99b	4373007	yes	A	yes	5	yes	1
311	RNU24	4373379	yes	B				
312	RNU6B	4373381	yes	C	yes	4		
313	RNU44	4373384	yes	A-G	yes	1 thru 6	yes	1
314	RNU48	4373383	yes	A-G	yes	1 thru 6	yes	1
315	RNU66	4373382	yes	A-G			yes	1
316	ath-miR159a	4373390					yes	1
317	cel-lin-4	4373447					yes	1
318	cel-miR-2	4373450					yes	1

Table S2
AD brain microRNA expression data

miRNA Name	Sample description	Control mean	Group mean	Directional fold change	Control replicates	Group replicates	t-test Pvalue	Std error
hsa-let-7b	B3,4 Hippo	271055	418187	1.54	7	10	0.000523	0.14
hsa-let-7d	B3,4 Hippo	5879.17	12455.7	2.12	7	10	5.20E-05	0.19
hsa-let-7f	B3,4 MFG	2095.31	3811.28	1.82	5	6	0.0429	0.37
hsa-let-7g	B3,4 Cereb	157388	225654	1.43	6	6	0.0225	0.19
hsa-let-7g	B3,4 Hippo	45668.4	77718.1	1.70	7	10	0.00121	0.19
hsa-miR-100	B3,4 Cereb	115498	149831	1.30	6	6	0.018	0.13
hsa-miR-100	B3,4 MFG	99572.8	148782	1.49	5	6	0.00593	0.16
hsa-miR-100	B5,6 MFG	85444.7	124405	1.46	7	9	0.0304	0.23
hsa-miR-101	B3,4 Hippo	10721.8	13494.8	1.26	7	10	0.0248	0.13
hsa-miR-103	B5,6 Cereb	36957.5	24989.4	-1.48	7	10	0.0206	0.22
hsa-miR-103	B5,6 Hippo	32257.7	22701.1	-1.42	7	10	0.00679	0.16
hsa-miR-106b	B3,4 Hippo	14246.2	18193.7	1.28	7	8	0.0134	0.12
hsa-miR-125a	B3,4 MFG	137441	166411	1.21	5	6	0.0196	0.10
hsa-miR-125b	B3,4 Cereb	380348	592168	1.56	5	5	0.039	0.26
hsa-miR-125b	B3,4 MFG	488411	834862	1.71	5	6	0.00442	0.21
hsa-miR-125b	B5,6 Cereb	394758	524936	1.33	7	10	0.0337	0.18
hsa-miR-125b	B5,6 Hippo	483465	718794	1.49	7	10	7.26E-05	0.11
hsa-miR-125b	B5,6 MFG	513876	730720	1.42	7	9	0.00947	0.17
hsa-miR-126*	B5,6 Cereb	22391.3	11944.2	-1.87	7	10	2.18E-05	0.15
hsa-miR-126*	B5,6 MFG	35419.4	26345.2	-1.34	7	9	0.0454	0.19
hsa-miR-127	B3,4 Hippo	205597	145148	-1.42	7	10	0.00762	0.16
hsa-miR-128b	B5,6 Cereb	466.18	827.863	1.78	7	10	0.0301	0.35
hsa-miR-129	B5,6 Cereb	842.033	396.418	-2.12	7	10	0.012	0.38
hsa-miR-130a	B3,4 Cereb	23623.7	16976.3	-1.39	6	5	0.0409	0.20
hsa-miR-130a	B3,4 Hippo	8596.33	13025.5	1.52	7	10	0.000161	0.12
hsa-miR-130b	B3,4 Cereb	7277.52	5751.52	-1.27	6	5	0.016	0.12
hsa-miR-130b	B3,4 MFG	4410.85	3121.64	-1.41	5	6	0.0162	0.17
hsa-miR-132	B3,4 Hippo	112901	80642.2	-1.40	7	10	0.0489	0.23
hsa-miR-132	B5,6 Cereb	47107.3	26973.9	-1.75	7	10	0.0206	0.31
hsa-miR-132	B5,6 Hippo	125971	79892	-1.58	7	10	0.00634	0.21
hsa-miR-132	B5,6 MFG	138413	55550.8	-2.49	7	9	0.00318	0.37

Table S2, continued

miRNA Name	Sample description	Control mean	Group mean	Directional fold change	Control replicates	Group replicates	t-test Pvalue	Std error
hsa-miR-133a	B3,4 MFG	1067.57	1749.22	1.64	5	6	0.0252	0.27
hsa-miR-133b	B3,4 MFG	7064.14	4431.21	-1.59	5	6	0.034	0.27
hsa-miR-134	B3,4 MFG	12472.6	6500.72	-1.92	5	5	0.00429	0.24
hsa-miR-134	B5,6 Cereb	7468.47	5545.65	-1.35	7	10	0.0429	0.19
hsa-miR-135a	B3,4 Hippo	3081.43	9938.32	3.23	7	10	1.80E-05	0.27
hsa-miR-135b	B3,4 Hippo	469.439	1071.18	2.28	6	10	0.000393	0.26
hsa-miR-135b	B5,6 Cereb	98580.2	51552	-1.91	7	10	0.0345	0.40
hsa-miR-140	B3,4 Cereb	113569	93095.6	-1.22	6	5	0.0097	0.09
hsa-miR-140	B3,4 Hippo	87270.6	102741	1.18	7	10	0.0193	0.09
hsa-miR-140	B5,6 Cereb	121896	82243	-1.48	7	10	0.00151	0.15
hsa-miR-141	B3,4 Hippo	29.8904	55.1648	1.85	7	10	0.0212	0.34
hsa-miR-143	B3,4 MFG	747.067	1448.88	1.94	5	6	0.0322	0.38
hsa-miR-145	B3,4 MFG	897.021	2224.43	2.48	5	6	0.0194	0.46
hsa-miR-145	B5,6 Hippo	861.895	2602.35	3.02	7	10	0.0182	0.60
hsa-miR-145	B5,6 MFG	976.582	1781.25	1.82	7	9	0.0377	0.38
hsa-miR-146a	B5,6 MFG	59273.4	38723.5	-1.53	7	9	0.0223	0.24
hsa-miR-146b	B3,4 Cereb	23644.4	16812.3	-1.41	6	6	0.00872	0.15
hsa-miR-146b	B3,4 Hippo	50121.5	41413.8	-1.21	7	10	0.0227	0.11
hsa-miR-146b	B3,4 MFG	85264.6	52399.4	-1.63	5	6	0.00235	0.17
hsa-miR-146b	B5,6 Cereb	14602.2	8810.09	-1.66	7	10	0.00219	0.20
hsa-miR-146b	B5,6 Hippo	29783.3	21855.8	-1.36	7	10	0.0401	0.20
hsa-miR-146b	B5,6 MFG	32088.3	19315	-1.66	7	9	0.022	0.28
hsa-miR-148a	B3,4 MFG	1048.57	2105.88	2.01	5	6	0.0284	0.39
hsa-miR-148a	B5,6 MFG	1265.16	1949.7	1.54	7	9	0.0264	0.25
hsa-miR-148b	B3,4 MFG	4414.38	7435.79	1.68	5	6	0.00368	0.19
hsa-miR-153	B3,4 Cereb	1081.46	2000.65	1.85	6	6	0.014	0.30
hsa-miR-153	B3,4 Hippo	607.862	1028.86	1.69	7	10	0.0118	0.27
hsa-miR-155	B5,6 Cereb	416.949	173.375	-2.40	7	9	0.0133	0.45
hsa-miR-15a	B3,4 Hippo	3748.65	5864.47	1.56	5	8	0.0102	0.21
hsa-miR-16	B5,6 Cereb	1496260	890855	-1.68	7	10	0.0199	0.29
hsa-miR-181a	B5,6 Cereb	25999.6	19411.7	-1.34	7	10	0.0461	0.19
hsa-miR-181b	B3,4 Cereb	128590	79912.3	-1.61	6	6	0.000361	0.13
hsa-miR-181b	B3,4 Hippo	205725	132439	-1.55	7	10	0.00168	0.17
hsa-miR-181c	B3,4 Cereb	3193.29	2371.38	-1.35	6	6	0.0278	0.17
hsa-miR-181d	B3,4 Cereb	58898.9	39437.6	-1.49	6	6	0.00233	0.14
hsa-miR-181d	B3,4 Hippo	70183	48640.4	-1.44	7	10	0.00555	0.16
hsa-miR-187	B5,6 Cereb	12531	28233.2	2.25	7	10	0.00578	0.36
hsa-miR-187	B5,6 MFG	9949.34	23744.4	2.39	7	9	0.0101	0.42
hsa-miR-190	B3,4 Cereb	1226.51	1656.84	1.35	6	6	0.0171	0.15
hsa-miR-190	B3,4 Hippo	1119.11	2150.27	1.92	7	10	0.000289	0.20
hsa-miR-191	B3,4 Cereb	127316	102144	-1.25	6	6	0.0371	0.13
hsa-miR-191	B3,4 MFG	191127	109984	-1.74	5	6	0.00153	0.18
hsa-miR-191	B5,6 Cereb	77724.2	53655.5	-1.45	7	10	0.0104	0.18
hsa-miR-192	B5,6 Cereb	55178.1	40979.1	-1.35	7	10	0.037	0.19
hsa-miR-193a	B3,4 Cereb	1950.21	5664.73	2.90	6	6	0.0136	0.51
hsa-miR-193a	B3,4 Hippo	1476.02	10649.7	7.22	7	10	1.34E-05	0.45
hsa-miR-193a	B5,6 Cereb	3278.35	9577.6	2.92	7	10	0.0198	0.59
hsa-miR-194	B5,6 MFG	5738.34	4614.43	-1.24	7	9	0.0483	0.15
hsa-miR-197	B5,6 Cereb	4903.78	7857.79	1.60	7	10	0.0379	0.30
hsa-miR-199a	B3,4 Hippo	38.6689	90.6641	2.34	5	7	0.0456	0.54
hsa-miR-200c	B3,4 Hippo	611.174	858.582	1.40	7	10	0.0302	0.21
hsa-miR-200c	B3,4 MFG	681.8	382.707	-1.78	5	6	0.0365	0.34
hsa-miR-203	B3,4 MFG	5101.96	3518.03	-1.45	5	6	0.00714	0.16
hsa-miR-206	B5,6 MFG	4242.35	2522.28	-1.68	7	9	0.000658	0.17
hsa-miR-21	B3,4 Hippo	16473.3	33845.5	2.05	7	10	0.0128	0.37
hsa-miR-210	B3,4 Hippo	15204.3	10222.5	-1.49	5	6	0.0191	0.20
hsa-miR-210	B5,6 Hippo	11023.8	7811.46	-1.41	7	10	0.0238	0.20
hsa-miR-210	B5,6 MFG	11548.3	8299.27	-1.39	7	9	0.0329	0.20
hsa-miR-212	B5,6 Cereb	1753.61	837.792	-2.09	7	10	0.00245	0.29
hsa-miR-212	B5,6 Hippo	9221.5	3817.13	-2.42	7	10	0.00049	0.29

Table S2, continued

miRNA Name	Sample description	Control mean	Group mean	Directional fold change	Control replicates	Group replicates	Anova Pvalue	Std error
hsa-miR-212	B5,6 MFG	6070.18	2457.73	-2.47	7	9	0.0066	0.41
hsa-miR-213	B3,4 Cereb	915.081	1224.32	1.34	6	6	0.0312	0.17
hsa-miR-213	B5,6 MFG	1330.94	1912.66	1.44	7	9	0.0087	0.17
hsa-miR-214	B5,6 Hippo	1125.61	2570.62	2.28	7	10	0.0101	0.41
hsa-miR-219	B5,6 Hippo	17154.2	11047.5	-1.55	7	10	0.012	0.22
hsa-miR-224	B3,4 MFG	46.4084	140.75	3.03	5	6	0.0239	0.59
hsa-miR-224	B5,6 Cereb	37.9501	77.619	2.05	7	10	0.0217	0.40
hsa-miR-23a	B3,4 MFG	192.453	337.082	1.75	5	6	0.0185	0.28
hsa-miR-23b	B5,6 MFG	4420.09	7275.84	1.65	7	9	0.0221	0.28
hsa-miR-24	B3,4 Cereb	382651	303606	-1.26	6	6	0.02	0.12
hsa-miR-24	B3,4 Hippo	410050	265344	-1.55	7	9	0.00776	0.20
hsa-miR-26a	B3,4 Hippo	1326580	1672790	1.26	5	8	0.00692	0.10
hsa-miR-26a	B5,6 MFG	2556700	1363480	-1.88	7	9	0.00192	0.24
hsa-miR-26b	B3,4 Hippo	85074.1	120924	1.42	5	6	0.0196	0.18
hsa-miR-27a	B3,4 Cereb	8236.72	12081.9	1.47	5	5	0.0416	0.23
hsa-miR-27a	B3,4 Hippo	11503	19702	1.71	5	8	0.00304	0.21
hsa-miR-27a	B3,4 MFG	9021.47	12306.8	1.36	5	6	0.0363	0.18
hsa-miR-27b	B3,4 Cereb	13060.2	21297.8	1.63	5	5	0.0186	0.24
hsa-miR-27b	B3,4 Hippo	14817.1	26298.5	1.77	5	7	0.015	0.28
hsa-miR-27b	B5,6 Hippo	9803.91	13520.4	1.38	7	10	0.027	0.19
hsa-miR-27b	B5,6 MFG	7024.72	12668.2	1.80	7	9	0.00618	0.26
hsa-miR-28	B3,4 MFG	2518.87	1903.67	-1.32	5	6	0.00316	0.10
hsa-miR-296	B5,6 Cereb	295.039	530.802	1.80	7	10	0.00751	0.27
hsa-miR-296	B5,6 Hippo	659.089	919.961	1.40	7	10	0.0383	0.21
hsa-miR-29a	B5,6 MFG	230887	292641	1.27	7	9	0.0141	0.12
hsa-miR-29b	B5,6 MFG	4477.01	7716.84	1.72	7	9	0.000202	0.16
hsa-miR-301	B5,6 Cereb	34456.4	18463.2	-1.87	7	10	0.000443	0.20
hsa-miR-301	B5,6 MFG	18761.4	15107	-1.24	7	9	0.0193	0.12
hsa-miR-30a-3p	B3,4 Cereb	28558	36005.4	1.26	6	6	0.0409	0.14
hsa-miR-30a-5p	B3,4 Hippo	183383	247619	1.35	7	10	0.00794	0.14
hsa-miR-30c	B3,4 Hippo	278919	158226	-1.76	7	9	0.0194	0.31
hsa-miR-30c	B3,4 MFG	257848	398344	1.54	5	6	0.0428	0.27
hsa-miR-30e-3p	B3,4 Cereb	25731.3	37326.4	1.45	5	6	0.0138	0.18
hsa-miR-30e-5p	B3,4 Hippo	8501.31	12186.9	1.43	5	8	0.0151	0.18
hsa-miR-30e-5p	B5,6 MFG	5765.64	7356.01	1.28	7	9	0.00895	0.12
hsa-miR-31	B3,4 Hippo	17375.2	12698.7	-1.37	7	10	0.0121	0.16
hsa-miR-32	B3,4 Cereb	1129.82	1385.62	1.23	6	6	0.0172	0.10
hsa-miR-32	B5,6 Cereb	1215.4	719.109	-1.69	7	10	0.0204	0.29
hsa-miR-324-3p	B3,4 Cereb	17409.6	13943.8	-1.25	5	5	0.0339	0.13
hsa-miR-324-5p	B3,4 Hippo	9083.94	14576.9	1.60	5	7	0.0382	0.29
hsa-miR-328	B3,4 Hippo	41558.8	28334	-1.47	7	10	0.0238	0.22
hsa-miR-33	B3,4 Hippo	66.1862	112.233	1.70	6	10	0.0468	0.35
hsa-miR-330	B3,4 Hippo	6353.73	4801.43	-1.32	7	10	0.00648	0.13
hsa-miR-331	B3,4 Hippo	89886.3	64690.7	-1.39	7	9	0.00053	0.11
hsa-miR-335	B3,4 Hippo	5775.27	10372.5	1.80	7	10	9.25E-05	0.16
hsa-miR-338	B3,4 Hippo	8524.44	16214.3	1.90	5	8	0.0382	0.39
hsa-miR-338	B5,6 Cereb	3498.73	5749.23	1.64	7	10	0.0453	0.33
hsa-miR-339	B3,4 Hippo	708.388	982.153	1.39	7	10	0.0131	0.17
hsa-miR-340	B3,4 MFG	3736.58	5313.58	1.42	5	6	0.0349	0.21
hsa-miR-340	B5,6 Cereb	7004.73	3614.04	-1.94	7	10	4.22E-05	0.17
hsa-miR-342	B5,6 MFG	113210	73411	-1.54	7	9	0.0193	0.24
hsa-miR-346	B5,6 Cereb	241.029	458.042	1.90	7	10	0.00375	0.27
hsa-miR-346	B5,6 Hippo	451.301	687.399	1.52	7	10	0.00947	0.20
hsa-miR-34a	B3,4 Cereb	885.759	1346.12	1.52	6	6	0.0405	0.26
hsa-miR-34a	B3,4 Hippo	921.907	1765.04	1.91	7	10	0.00267	0.26
hsa-miR-34a	B3,4 MFG	1349.28	2282.82	1.69	5	6	0.0158	0.26
hsa-miR-361	B3,4 Hippo	4221.94	7026.45	1.66	7	10	7.67E-05	0.14
hsa-miR-367	B3,4 Cereb	55.6201	174.473	3.14	5	5	0.00168	0.36
hsa-miR-367	B3,4 MFG	25.9522	59.2304	2.28	2	5	0.00935	0.29
hsa-miR-369-3p	B3,4 Hippo	25.7286	64.7863	2.52	5	10	0.004	0.38

Table S2, continued

miRNA Name	Sample description	Control mean	Group mean	Directional fold change	Control replicates	Group replicates	Anova Pvalue	Std error
hsa-miR-374	B3,4 Hippo	12851.8	17687.4	1.38	7	10	0.0133	0.16
hsa-miR-374	B5,6 Cereb	47771.6	26504.8	-1.80	7	10	0.0412	0.38
hsa-miR-376a	B3,4 Cereb	6550.49	5103.04	-1.28	6	5	0.00775	0.11
hsa-miR-376a	B5,6 Cereb	9248.67	6275.21	-1.47	7	10	0.00559	0.17
hsa-miR-381	B3,4 Hippo	104.868	315.117	3.00	7	10	3.25E-05	0.27
hsa-miR-381	B5,6 Cereb	210.031	453.034	2.16	7	10	0.0124	0.39
hsa-miR-381	B5,6 MFG	71.4414	117.113	1.64	7	9	0.0133	0.25
hsa-miR-382	B3,4 Cereb	15842.9	10956.7	-1.45	6	4	0.0396	0.22
hsa-miR-382	B3,4 MFG	16686.7	9475.34	-1.76	2	5	0.0415	0.30
hsa-miR-382	B5,6 Cereb	18195.4	8773	-2.07	7	10	0.011	0.36
hsa-miR-382	B5,6 Hippo	16262.5	10193.4	-1.60	7	10	0.0239	0.27
hsa-miR-422a	B5,6 Cereb	182.331	269.49	1.48	7	10	0.0278	0.23
hsa-miR-422a	B5,6 Hippo	113.246	180.678	1.60	7	10	0.0231	0.27
hsa-miR-422a	B5,6 MFG	129.971	201.769	1.55	7	9	0.0218	0.25
hsa-miR-422b	B3,4 Hippo	308.261	539.066	1.75	7	10	0.0147	0.29
hsa-miR-422b	B5,6 Cereb	1341.07	3641.26	2.72	7	10	0.00233	0.39
hsa-miR-423	B5,6 Hippo	1362.37	1896.88	1.39	7	10	0.00316	0.14
hsa-miR-423	B5,6 MFG	2021.1	2568.72	1.27	7	9	0.0324	0.15
hsa-miR-424	B3,4 Hippo	66.0339	128.342	1.94	5	7	0.0172	0.34
hsa-miR-425	B3,4 Cereb	2055.98	1182.81	-1.74	6	6	0.0102	0.25
hsa-miR-425	B3,4 Hippo	2595.67	1653.08	-1.57	7	10	0.00268	0.18
hsa-miR-425	B3,4 MFG	3619.53	2148.35	-1.68	5	6	0.0378	0.31
hsa-miR-425	B5,6 Hippo	5165.81	3992.95	-1.29	7	10	0.0396	0.17
hsa-miR-432	B5,6 Cereb	3292.83	1362.52	-2.42	7	10	0.0333	0.54
hsa-miR-433	B3,4 Hippo	29432.1	20753.7	-1.42	7	10	0.042	0.23
hsa-miR-449	B3,4 Hippo	84.9012	328.498	3.87	5	8	0.00621	0.58
hsa-miR-449	B5,6 Cereb	909.407	340.028	-2.67	7	10	0.0173	0.53
hsa-miR-451	B3,4 Hippo	4447.4	7264.51	1.63	5	8	0.0357	0.30
hsa-miR-451	B5,6 Hippo	3032.83	5824.98	1.92	7	10	0.0207	0.36
hsa-miR-485-5p	B3,4 Hippo	3076.7	2210.28	-1.39	7	10	0.00074	0.11
hsa-miR-489	B3,4 Cereb	32.9308	98.2079	2.98	6	6	0.0406	0.67
hsa-miR-491	B3,4 MFG	11725.1	9714.1	-1.21	5	6	0.0337	0.11
hsa-miR-497	B3,4 MFG	2034.93	3460.44	1.70	5	6	0.0109	0.24
hsa-miR-497	B5,6 MFG	1663.71	2427.12	1.46	7	9	0.00342	0.16
hsa-miR-500	B3,4 Cereb	208.098	132.225	-1.57	6	6	0.0368	0.27
hsa-miR-501	B5,6 Hippo	418.629	787.734	1.88	7	10	9.03E-06	0.14
hsa-miR-502	B5,6 Cereb	156.283	96.0507	-1.63	7	10	0.0344	0.30
hsa-miR-505	B5,6 Hippo	742.935	1132.34	1.52	7	10	0.0367	0.27
hsa-miR-514	B5,6 Hippo	25.9819	45.6646	1.76	7	10	0.0086	0.27
hsa-miR-516-3p	B5,6 MFG	46.0593	154.709	3.36	7	9	0.0114	0.60
hsa-miR-517c	B3,4 Hippo	253.751	511.361	2.02	5	8	0.0154	0.35
hsa-miR-519d	B5,6 MFG	25.3772	51.1787	2.02	6	9	0.0384	0.44
hsa-miR-520e	B5,6 Cereb	2600.36	14282.6	5.49	7	10	0.0497	1.15
hsa-miR-520e	B5,6 MFG	8230.63	21808.6	2.65	7	9	0.000495	0.31
hsa-miR-7	B3,4 Hippo	12490.3	28600.3	2.29	7	10	8.12E-06	0.18
hsa-miR-9	B5,6 Cereb	1290740	911703	-1.42	7	10	0.0301	0.21
hsa-miR-9	B5,6 Hippo	709738	511143	-1.39	7	10	0.0231	0.19
hsa-miR-9	B5,6 MFG	656240	469925	-1.40	7	9	0.0132	0.17
hsa-miR-92	B5,6 Hippo	91786.3	134817	1.47	7	10	0.00518	0.17
hsa-miR-92	B5,6 MFG	73139	124361	1.70	7	9	0.00452	0.23
hsa-miR-93	B3,4 Cereb	55560	48922	-1.14	6	6	0.0247	0.07
hsa-miR-96	B5,6 Cereb	3127.1	2309.27	-1.35	7	10	0.0366	0.19
hsa-miR-98	B5,6 Cereb	7071.07	4172.46	-1.69	7	10	0.0201	0.29
hsa-miR-99a	B5,6 MFG	85917.4	111080	1.29	7	9	0.00935	0.12
hsa-miR-99b	B3,4 Hippo	15789.7	10735.5	-1.47	7	10	7.23E-05	0.10
RNU6B	B3,4 Cereb	2756.38	5364.78	1.95	6	6	0.000852	0.21
RNU6B	B3,4 Hippo	1863.36	4401.58	2.36	7	10	0.000614	0.29
RNU6B	B5,6 Cereb	2016.53	4887.66	2.42	7	10	0.000528	0.29
SNORD44	B3,4 Hippo	9501.51	4823.47	-1.97	7	10	0.0172	0.37
SNORD44	B3,4 MFG	3788.93	6848.13	1.81	5	6	0.0263	0.32

Table S2, continued

miRNA Name	Sample description	Control mean	Group mean	Directional fold change	Control replicates	Group replicates	Anova Pvalue	Std error
SNORD44	B5,6 Cereb	1519.77	2923.26	1.92	7	10	0.0376	0.41
SNORD44	B5,6 Hippo	7603.27	12960.8	1.70	7	10	0.00178	0.20
SNORD44	B5,6 MFG	4910.76	7606.74	1.55	7	9	0.0215	0.24
SNORD48	B3,4 Cereb	171163	77913.8	-2.20	6	6	0.000559	0.23
SNORD48	B3,4 Hippo	220305	128044	-1.72	7	10	0.00515	0.24

Expression abundances < 25 are excluded.

Table S3
miRNA and mRNA assays tested

miRNA Assay	mRNA assays
miR-128b	ACADVL, ACAA2
miR-145, miR-382	RPS6KA6
miR-193	RPS6KB2, FASN, EEF2
miR-200a	IDH3B
miR-206	CXCR3
miR-212	CAMKK1, IDH3B, CPT1B
miR-224	PRKCD
miR-32, miR-518e	PGAM1
miR-338	CPT1A
miR-381	EIF2B5
miR-422a	GRK5
miR-422b	DECR1, GRK5
miR-423, miR-98	IDH2
miR-449	ALDOA
miR-497	EIF2B2
miR-509	EIF2B3
miR-96	ACO1
miR-99a	ECHS1