

Supplementary Materials and Methods

Immunohistochemical analysis

IMR90 fibroblasts (ATCC, Manassas, VA) were cultured on 0.1% gelatin-coated coverslips, and hESCs (Wicell H7 line) and iPSCs (from Thomson lab) on Matrigel-coated coverslips. Cells were fixed in 2% formaldehyde in PBS, permeabilized with 1% Triton-X-100 in PBS, and blocked with 5% bovine serum albumin in PBS. Cells were then labeled with each embryonic stem cell marker plus appropriate AlexaFluor secondary antibodies (Invitrogen) and DAPI (Vectorshield Laboratory, Burlingame, CA). Microscopy was performed using a Leica DM-IL inverted microscope (Leica Microsystems USA, Bannockburn, IL) and QImaging Retiga 2000R high-speed digital CCD camera (QImaging, Burnaby, BC, Canada). QCapture Pro 5.1 (QImaging, Burnaby, BC, Canada) was used for image acquisition.

Embryoid body formation

Human embryoid body formation was accomplished by treating proliferating cells (iPSCs or hESCs) with collagenase IV and transferring them into suspension culture in differentiation media consisting of DMEM-F12 media (GIBCO) supplemented with 20% FBS, l-glutamine, β -mercaptoethanol, and nonessential amino acids. Embryoid bodies were maintained in suspension culture for 14 days, changing the media every 2 days.

Cell sample collection and RNA preparation

Using the miRNeasy Mini Kit (Qiagen Inc., Valencia, CA), total RNA containing miRNA was isolated separately from biological duplicates of iPSC cells, ES cells, IMR90 fetal fibroblasts. In total, we prepared six distinct RNA samples for miRNA profiling. Total RNA concentration and purity were analyzed by spectrophotometry.

RT-PCR analysis of embryonic- and cardiac-specific transcriptions

The expression of human embryonic cell markers (OCT4, NANOG, SOX2, REX1, DNMT3B, GDF3), as well as differentiation markers (Brachyury—mesoderm, AFP—endoderm, and NCAM1—neuroectoderm), was compared before across all three groups (in biological duplicates). 18S was used as housekeeping gene control. The primer sets used in the amplification reaction are as follows:

Human OCT4 forward primer: 5'-GGAAGGTATTCAG CCAAACGACCA-3'

Human OCT4 reverse primer: 5'-CTCACTCGGTTCTCG ATACTGGTT-3'

Human NANOG forward primer: 5'-ACCAGAACTGTG TTCTCTCCACC-3'

Human NANOG reverse primer: 5'-CCATTGCTA TTCTTCGGCCAGTTG-3'

Human SOX2 forward primer: 5'-GGGAAATGGGAGGG GTGCAAAAGAGG-3'

Human SOX2 reverse primer: 5'-TTGCGTGAGTGTGGA TGGGATTGGTG-3'

Human REX1-1 forward primer: 5'-GCGTACGCAAATT AAAGTCCAGA-3'

Human REX1 reverse primer: 5'-ATCCTAAACAGCT CGCAGAAT-3'

Human DNMT3B forward primer: 5'-TGCTGCTCCA GGGCCCGATACTTC-3'

Human DNMT3B reverse primer: 5'-TCCTTTTCGAGCTC AGTGCACCACAAAAC-3'

Human GDF3 forward primer: 5'-CTTATCTCGTAAA GGGCTGGG-3'

Human GDF3 reverse primer: 5'-GTGCCAACCCAGG TCCCCGAAGTT-3'

Human Brachyury forward primer: 5'-GCGGGAAAG AGCCTGCAGTA-3'

Human Brachyury reverse primer: 5'-TTCCCCGTTCA CGTACTTCC-3'

Human AFP forward primer: 5'-GCTGGATTGTCT GCAGGATGGGGAA-3'

Human AFP reverse primer: 5'-TCCCCTGAAGAAA ATTGGTTAAAAT-3'

Human NCAM1 forward primer: 5'-GCCAGGAGACAG AAACGAAG-3'

Human NCAM1 reverse primer: 5'-GGTGTGGAAAT GCTCTGGT-3'

Human 18S forward primer: 5'-ACACGGACAGGATT GACAGA-3'

Human 18S reverse primer: 5'-GGACATCTAAGGG CATCACAG-3'

MicroRNA microarray construction, hybridization, and scanning

Microarray assay was performed using a service provider (LC Sciences, Houston, TX). The assay started with 4–8 μ g total RNA sample, which was size-fractionated using a YM-100 Microcon centrifugal filter (Millipore, Billerica, MA), and the small RNAs (<300 nt) isolated were 3'-extended with a poly(A) tail using poly(A) polymerase. An oligonucleotide tag was then ligated to the poly(A) tail for later fluorescent dye staining. Hybridization was performed overnight on a μ ParaFlo microfluidic chip using a microcirculation pump (Atactic Technologies, Houston, TX) [1]. On the microfluidic chip, each detection probe consisted of a chemically modified nucleotide coding segment complementary to target microRNA (from miRBase, <http://microrna.sanger.ac.uk/sequences/>) or other control RNA, and a spacer segment of polyethylene glycol to extend the coding segment away from the substrate. The detection probes were made by in situ synthesis using photogenerated reagent chemistry. Hybridization used 100 μ L 6 \times SSPE buffer (0.90 M NaCl, 60 mM Na₂HPO₄, 6 mM EDTA, pH 6.8) containing 25% formamide at 34°C. After RNA hybridization, tag-conjugating Cy3 or Cy5 dyes were circulated through the microfluidic chip for dye staining. Fluorescence images were collected using a laser scanner (GenePix 4000B, Molecular Devices, Sunnyvale, CA) and digitized using Array-Pro image analysis software (Media Cybernetics, Bethesda, MD).

MicroRNA microarray normalization and data analysis

Microarray normalization removes system-related variations, such as sample amount variations, different labeling dyes, and signal gain differences of scanners so that

biological variations can be faithfully revealed. Data were analyzed by first subtracting the background and then normalizing the signals using a LOWESS filter (locally weighted regression) [2]. Background is determined using a regression-based background mapping method. The regression is performed on 5% to 25% of the lowest intensity data points excluding blank spots. Raw data matrix is then subtracted by the background matrix. Data adjustment includes data filtering, Log₂ transformation, and gene centering, and normalization. The data filtering removes miRNAs with normalized intensity values below a threshold value of 32 across all samples. Gene centering and normalization transform the Log₂ values using the mean and the standard deviation of individual genes across all samples. *t* Values are calculated for each miRNA between groups, and *P* values are computed from the theoretical *t*-distribution. miRNAs with *P* values below a critical *P*-value (typically 0.01) are selected for cluster analysis. The clustering was done using hierarchical methods, with average linkage and Euclidean distance metrics [3]. The clustering plot was generated using TIGR MeV (Multiple Experimental Viewer) software from The Institute for Genomic Research. Principal component analysis was performed using the *R* statistical package (cran.r-project.org) (Fig. 3A,B). For Figure 3A, in order to accurately represent the distances between samples in principal component space, the loading of the samples along each principal component was scaled (multiplied) by the standard deviation along that component.

Quantitative RT-PCR

For mRNA qRT-PCR, 2 µg of total RNA from each sample was reverse transcribed with SuperScript III (Invitrogen). For each sample, qRT-PCR was performed in triplicate on an

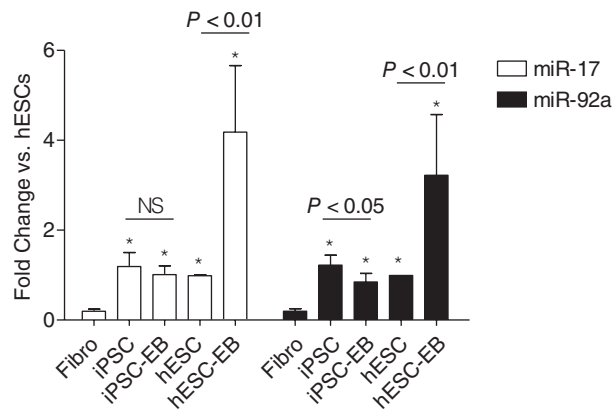
ABI 7900HT instrument (Applied Biosystems) using Taqman primer probe sets (Applied Biosystems) for each gene of interest and a GAPDH endogenous control primer probe set for normalization. Representative results are shown as fold expression relative to undifferentiated hESCs unless otherwise stated. Error bars reflect one standard deviation from the mean of three technical replicates unless otherwise stated. miRNA qRT-PCR was performed with miRNA Taqman Expression Assays (Applied Biosystems) and the miRNA Reverse Transcription kit (Applied Biosystems). For each miRNA analyzed, 10 ng of total RNA was reverse transcribed with a miRNA-specific primer. RNU48 was used as the endogenous control. Results are shown as fold expression relative to undifferentiated hESCs unless otherwise noted. Error bars indicate one standard deviation from the mean of three technical replicates unless otherwise stated.

Statistical analysis

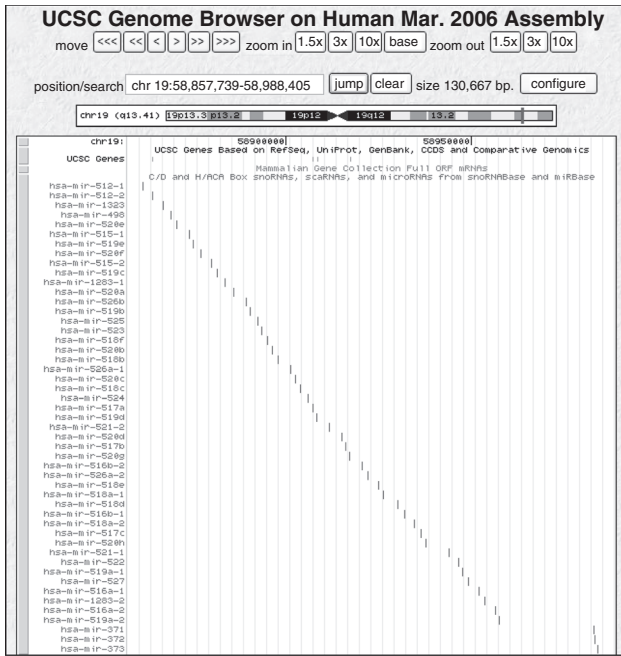
All results are expressed as mean ± SD. The Student's *t*-test was used, and *P* values of <0.05 were considered to indicate significant differences between two groups.

Supplementary References

1. Gao X, E Gulari and X Zhou. (2004). In situ synthesis of oligonucleotide microarrays. *Biopolymers* 73:579–596.
2. Bolstad BM, RA Irizarry, M Astrand and TP Speed. (2003). A comparison of normalization methods for high density oligonucleotide array data based on variance and bias. *Bioinformatics* 19:185–193.
3. Eisen MB, PT Spellman, PO Brown and D Botstein. (1998). Cluster analysis and display of genome-wide expression patterns. *Proc Natl Acad Sci USA* 95:14863–14868.



SUPPLEMENTARY FIG. 2. Quantitative RT-PCR analysis of miR-17 and miR-92a during differentiation of iPSCs and hESCs. These two miRNAs showed different expression trends in the two pluripotent cell types after differentiation to Day 14 embryoid bodies. Each was significantly up-regulated in hESC-embryoid bodies but not in differentiated iPSCs. Error bars indicate one standard deviation from the mean of two biological replicate experiments.



SUPPLEMENTARY FIG. 3. UC Santa Cruz genome browser screenshot of clustered miRNAs on chromosome 19 that exhibit differential expression between iPSCs and hESCs.

SUPPLEMENTARY TABLE 1. COMPLETE NORMALIZED INTENSITY VALUES FOR miRNAs ACROSS ALL SAMPLES

No.	Reporter name	<i>iPSC-1</i>	<i>iPSC-2</i>	<i>Fibro-1</i>	<i>Fibro-2</i>	<i>hESC-1</i>	<i>hESC-2</i>
		<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>
1	hsa-let-7a	836	395	10,127	10,384	116	48
2	hsa-let-7a*	3	2	13	6	2	1
3	hsa-let-7b	204	32	3,093	3,028	73	3
4	hsa-let-7b*	4	3	25	23	5	4
5	hsa-let-7c	450	62	5,944	6,469	89	3
6	hsa-let-7c*	4	3	8	12	2	1
7	hsa-let-7d	285	83	7,675	7,818	56	7
8	hsa-let-7d*	5	3	76	83	2	2
9	hsa-let-7e	149	107	4,629	4,473	25	16
10	hsa-let-7e*	2	2	20	12	2	2
11	hsa-let-7f	352	100	9,108	9,468	15	5
12	hsa-let-7f-1*	3	4	11	12	4	3
13	hsa-let-7f-2*	0	2	8	5	1	0
14	hsa-let-7g	62	35	2,803	3,173	5	2
15	hsa-let-7g*	4	3	12	11	2	2
16	hsa-let-7i	136	52	5,351	5,459	29	4
17	hsa-let-7i*	2	2	15	8	2	1
18	hsa-miR-1	2,651	206	4	3	21	0
19	hsa-miR-100	62	41	12,267	11,138	6	5
20	hsa-miR-100*	4	2	10	16	2	2
21	hsa-miR-101	31	41	10	6	166	52
22	hsa-miR-101*	3	3	8	10	2	1
23	hsa-miR-103	1,685	1,316	733	669	5,221	2,391
24	hsa-miR-105	7	7	17	11	2	3
25	hsa-miR-105*	2	2	6	6	1	1
26	hsa-miR-106a	14,967	12,779	653	672	15,936	10,658
27	hsa-miR-106a*	15	18	10	8	9	16
28	hsa-miR-106b	2,856	2,630	577	519	4,233	3,187
29	hsa-miR-106b*	24	32	18	14	61	46
30	hsa-miR-107	1,458	1,157	685	618	4,790	2,143
31	hsa-miR-10a	4	3	839	1,084	3	1
32	hsa-miR-10a*	3	3	23	24	2	1
33	hsa-miR-10b	14	17	61	175	5	2
34	hsa-miR-10b*	3	4	11	11	2	1
35	hsa-miR-122	224	49	9	2	241	4
36	hsa-miR-122*	3	3	10	11	1	0
37	hsa-miR-124	28	30	20	12	112	50
38	hsa-miR-124*	2	2	11	13	2	1
39	hsa-miR-125a-3p	5	7	21	22	5	5
40	hsa-miR-125a-5p	1,158	1,261	2,082	2,379	232	526
41	hsa-miR-125b	1,831	1,301	19,511	18,034	48	40
42	hsa-miR-125b-1*	1	2	22	19	1	0
43	hsa-miR-125b-2*	3	4	11	14	1	1
44	hsa-miR-126	239	93	11	9	33	53
45	hsa-miR-126*	3	2	5	8	2	1
46	hsa-miR-127-3p	3	3	707	800	4	1
47	hsa-miR-127-5p	2	2	10	10	2	1
48	hsa-miR-129*	4	3	7	7	2	0
49	hsa-miR-129-3p	11	9	4	8	4	4
50	hsa-miR-129-5p	5	6	14	10	4	3
51	hsa-miR-130a	729	647	166	155	2,196	574
52	hsa-miR-130a*	1	3	5	10	1	1
53	hsa-miR-130b	310	271	126	116	849	266
54	hsa-miR-130b*	17	38	6	7	5	13
55	hsa-miR-132	19	24	137	148	17	26
56	hsa-miR-132*	1	3	12	5	1	0

(Continued)

SUPPLEMENTARY TABLE 1. COMPLETE NORMALIZED INTENSITY VALUES FOR miRNAs ACROSS ALL SAMPLES (Continued)

No.	Reporter name	<i>iPSC-1</i>	<i>iPSC-2</i>	<i>Fibro-1</i>	<i>Fibro-2</i>	<i>hESC-1</i>	<i>hESC-2</i>
		<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>
57	hsa-miR-133a	120	24	8	10	39	4
58	hsa-miR-133b	102	20	6	5	27	3
59	hsa-miR-134	5	4	334	386	1	3
60	hsa-miR-135a	4	3	5	6	0	3
61	hsa-miR-135a*	2	2	11	8	2	1
62	hsa-miR-135b	4	3	6	4	1	3
63	hsa-miR-135b*	5	6	8	6	3	3
64	hsa-miR-136	1	1	8	5	1	0
65	hsa-miR-136*	1	2	7	14	0	0
66	hsa-miR-137	4	8	17	19	1	0
67	hsa-miR-138	10	10	11	10	13	6
68	hsa-miR-138-1*	3	4	5	14	3	2
69	hsa-miR-138-2*	2	2	2	6	1	1
70	hsa-miR-139-3p	2	3	3	7	1	1
71	hsa-miR-139-5p	7	4	5	11	2	2
72	hsa-miR-140-3p	31	32	37	31	136	43
73	hsa-miR-140-5p	2	2	3	6	1	1
74	hsa-miR-141	14	8	3	6	19	8
75	hsa-miR-141*	1	3	5	12	0	0
76	hsa-miR-142-3p	1	2	1	10	0	0
77	hsa-miR-142-5p	1	3	2	11	0	0
78	hsa-miR-143	141	120	6,094	6,024	24	6
79	hsa-miR-143*	3	3	6	10	2	2
80	hsa-miR-144	2	3	3	9	2	3
81	hsa-miR-144*	2	2	6	5	2	1
82	hsa-miR-145	174	115	5,299	4,835	72	21
83	hsa-miR-145*	8	8	100	114	2	2
84	hsa-miR-146a	48	46	8	6	21	83
85	hsa-miR-146a*	2	2	8	8	1	3
86	hsa-miR-146b-3p	3	3	9	13	1	3
87	hsa-miR-146b-5p	6	6	28	37	2	4
88	hsa-miR-147	3	3	11	5	2	3
89	hsa-miR-147b	1	3	6	11	1	3
90	hsa-miR-148a	680	851	8	6	129	236
91	hsa-miR-148a*	2	4	7	7	2	4
92	hsa-miR-148b	60	92	41	55	60	117
93	hsa-miR-148b*	3	4	5	10	2	4
94	hsa-miR-149	9	10	21	18	6	16
95	hsa-miR-149*	410	532	98	64	326	486
96	hsa-miR-150	18	12	10	8	6	5
97	hsa-miR-150*	14	24	21	13	5	13
98	hsa-miR-151-3p	399	372	427	358	491	499
99	hsa-miR-151-5p	2,464	3,103	1,205	1,175	2,236	2,637
100	hsa-miR-152	28	23	436	523	2	8
101	hsa-miR-153	3	5	8	5	1	3
102	hsa-miR-154	4	3	54	57	1	3
103	hsa-miR-154*	3	3	15	20	1	1
104	hsa-miR-155	178	255	3,569	4,126	84	287
105	hsa-miR-155*	3	3	9	11	1	2
106	hsa-miR-15a	49	99	104	150	156	100
107	hsa-miR-15a*	3	3	7	11	2	2
108	hsa-miR-15b	5,403	6,606	2,062	2,302	2,519	4,549
109	hsa-miR-15b*	6	16	4	10	3	11
110	hsa-miR-16	4,934	4,985	3,672	4,046	5,735	4,438
111	hsa-miR-16-1*	2	3	2	7	1	3
112	hsa-miR-16-2*	24	34	10	15	3	18

SUPPLEMENTARY TABLE 1. COMPLETE NORMALIZED INTENSITY VALUES FOR miRNAs ACROSS ALL SAMPLES (Continued)

No.	Reporter name	<i>iPSC-1</i>	<i>iPSC-2</i>	<i>Fibro-1</i>	<i>Fibro-2</i>	<i>hESC-1</i>	<i>hESC-2</i>
		<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>
113	hsa-miR-17	15,196	13,396	761	762	17,035	10,968
114	hsa-miR-17*	10	11	14	9	23	10
115	hsa-miR-181a	84	65	753	651	368	154
116	hsa-miR-181a*	3	4	13	14	2	2
117	hsa-miR-181a-2*	10	10	28	35	11	21
118	hsa-miR-181b	27	31	172	256	54	67
119	hsa-miR-181c	12	7	14	33	16	20
120	hsa-miR-181c*	3	4	5	10	0	3
121	hsa-miR-181d	12	13	45	53	7	15
122	hsa-miR-182	1,125	1,958	8	4	2,963	5,119
123	hsa-miR-182*	2	3	3	4	2	3
124	hsa-miR-183	519	873	7	7	1,367	2,697
125	hsa-miR-183*	23	33	4	2	38	97
126	hsa-miR-184	13	18	5	6	7	14
127	hsa-miR-185	174	205	253	239	231	199
128	hsa-miR-185*	3	3	5	10	2	3
129	hsa-miR-186	71	50	20	29	276	94
130	hsa-miR-186*	3	4	8	11	4	3
131	hsa-miR-187	204	249	6	9	353	328
132	hsa-miR-187*	7	12	7	11	8	9
133	hsa-miR-188-3p	3	3	4	6	2	3
134	hsa-miR-188-5p	7	12	13	13	3	6
135	hsa-miR-18a	1,718	1,733	166	162	2,230	2,086
136	hsa-miR-18a*	5	8	13	6	4	5
137	hsa-miR-18b	922	1,008	51	48	1,064	1,006
138	hsa-miR-18b*	4	5	13	11	3	3
139	hsa-miR-190	2	3	4	5	1	3
140	hsa-miR-190b	2	3	4	9	1	2
141	hsa-miR-191	2,326	1,704	1,279	1,124	3,054	2,148
142	hsa-miR-191*	9	11	24	15	6	8
143	hsa-miR-192	92	49	17	14	31	41
144	hsa-miR-192*	3	4	7	6	1	3
145	hsa-miR-193a-3p	4	4	6	11	4	3
146	hsa-miR-193a-5p	41	49	191	178	76	85
147	hsa-miR-193b	7	6	7	16	2	2
148	hsa-miR-193b*	19	25	21	23	7	12
149	hsa-miR-194	62	45	12	12	15	31
150	hsa-miR-194*	4	4	9	10	3	4
151	hsa-miR-195	134	158	26	28	46	83
152	hsa-miR-195*	4	4	12	8	3	2
153	hsa-miR-196a	5	5	3	6	1	2
154	hsa-miR-196a*	2	3	5	9	1	1
155	hsa-miR-196b	4	4	7	8	0	1
156	hsa-miR-197	177	200	139	134	113	146
157	hsa-miR-198	18	31	16	13	3	8
158	hsa-miR-199a-3p	510	480	4,779	5,122	19	26
159	hsa-miR-199a-5p	20	15	404	310	3	2
160	hsa-miR-199b-5p	3	3	15	11	2	2
161	hsa-miR-19a	391	415	15	13	1,523	423
162	hsa-miR-19a*	3	4	8	7	3	1
163	hsa-miR-19b	4,309	3,822	353	287	10,863	4,771
164	hsa-miR-19b-1*	4	3	10	11	1	3
165	hsa-miR-19b-2*	2	3	9	8	2	1
166	hsa-miR-200a	6	5	6	8	1	2
167	hsa-miR-200a*	4	3	9	12	1	2
168	hsa-miR-200b	69	107	9	5	2	13

(Continued)

SUPPLEMENTARY TABLE 1. COMPLETE NORMALIZED INTENSITY VALUES FOR miRNAs ACROSS ALL SAMPLES (Continued)

No.	Reporter name	<i>iPSC-1</i>	<i>iPSC-2</i>	<i>Fibro-1</i>	<i>Fibro-2</i>	<i>hESC-1</i>	<i>hESC-2</i>
		<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>
169	hsa-miR-200b*	5	7	11	7	2	3
170	hsa-miR-200c	695	1,027	6	6	604	1,122
171	hsa-miR-200c*	3	3	8	12	1	2
172	hsa-miR-202	3	4	12	9	2	3
173	hsa-miR-202*	3	2	4	3	1	1
174	hsa-miR-203	9	14	7	6	2	3
175	hsa-miR-204	117	227	5	5	3	12
176	hsa-miR-205	680	761	10	5	1,002	685
177	hsa-miR-206	4	4	11	11	2	3
178	hsa-miR-208b	2	3	6	5	2	1
179	hsa-miR-20a	16,938	13,597	940	1,042	16,350	11,967
180	hsa-miR-20a*	11	11	5	6	2	9
181	hsa-miR-20b	10,694	9,250	118	176	10,423	8,584
182	hsa-miR-20b*	37	37	10	10	48	39
183	hsa-miR-21	26,212	18,315	56,501	41,374	6,629	11,549
184	hsa-miR-21*	3	4	8	10	2	2
185	hsa-miR-210	6	8	86	72	42	14
186	hsa-miR-211	3	3	7	7	1	3
187	hsa-miR-212	6	6	22	26	4	4
188	hsa-miR-214	321	313	3,270	3,144	22	20
189	hsa-miR-214*	2	3	6	13	1	1
190	hsa-miR-215	4	4	11	8	2	2
191	hsa-miR-216a	4	4	7	7	2	3
192	hsa-miR-216b	3	4	9	7	1	1
193	hsa-miR-217	4	5	8	13	2	1
194	hsa-miR-218	6	11	10	10	2	6
195	hsa-miR-218-1*	3	3	4	6	1	2
196	hsa-miR-218-2*	3	3	14	8	1	3
197	hsa-miR-219-1-3p	1	3	5	7	1	2
198	hsa-miR-219-2-3p	3	3	6	6	12	25
199	hsa-miR-219-5p	2	3	2	6	1	1
200	hsa-miR-22	143	108	2,057	1,689	192	63
201	hsa-miR-22*	15	15	46	68	3	4
202	hsa-miR-220b	3	4	4	8	0	1
203	hsa-miR-220c	3	3	3	9	2	1
204	hsa-miR-221	3,546	2,821	5,758	5,968	3,820	2,454
205	hsa-miR-221*	43	57	29	33	3	15
206	hsa-miR-222	4,620	2,887	9,330	8,231	4,225	2,983
207	hsa-miR-222*	11	11	29	20	37	36
208	hsa-miR-223	4	4	6	7	3	3
209	hsa-miR-223*	3	3	2	10	2	2
210	hsa-miR-224	12	17	17	17	3	10
211	hsa-miR-23a	5,716	4,065	18,077	16,793	1,480	1,806
212	hsa-miR-23a*	13	19	91	78	6	7
213	hsa-miR-23b	4,349	3,244	13,591	13,980	1,275	1,458
214	hsa-miR-23b*	4	5	15	15	3	3
215	hsa-miR-24	1,742	1,718	5,552	5,839	742	627
216	hsa-miR-24-1*	3	3	11	8	2	2
217	hsa-miR-24-2*	11	10	57	48	4	5
218	hsa-miR-25	9,086	11,524	950	1,061	7,262	9,888
219	hsa-miR-25*	33	44	30	20	72	52
220	hsa-miR-26a	8,392	7,052	9,903	10,346	3,614	4,738
221	hsa-miR-26a-1*	4	3	10	8	2	2
222	hsa-miR-26a-2*	5	6	5	12	3	2
223	hsa-miR-26b	282	460	571	970	65	155
224	hsa-miR-26b*	4	3	8	12	3	3

SUPPLEMENTARY TABLE 1. COMPLETE NORMALIZED INTENSITY VALUES FOR miRNAs ACROSS ALL SAMPLES (Continued)

No.	Reporter name	<i>iPSC-1</i>	<i>iPSC-2</i>	<i>Fibro-1</i>	<i>Fibro-2</i>	<i>hESC-1</i>	<i>hESC-2</i>
		<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>
225	hsa-miR-27a	964	1,088	3,077	3,712	213	178
226	hsa-miR-27a*	3	4	10	9	2	2
227	hsa-miR-27b	814	891	2,179	2,941	155	236
228	hsa-miR-27b*	7	10	26	40	5	8
229	hsa-miR-28-3p	173	206	66	80	48	99
230	hsa-miR-28-5p	327	534	166	202	170	153
231	hsa-miR-296-3p	9	13	13	10	4	3
232	hsa-miR-296-5p	11	9	14	11	10	4
233	hsa-miR-297	4	3	2	10	3	2
234	hsa-miR-298	4	4	6	11	3	3
235	hsa-miR-299-3p	3	3	12	20	2	1
236	hsa-miR-299-5p	4	4	137	164	3	4
237	hsa-miR-29a	1,548	1,425	15,311	14,506	219	306
238	hsa-miR-29a*	2	2	10	9	2	2
239	hsa-miR-29b	6	5	89	135	5	1
240	hsa-miR-29b-1*	9	19	80	90	2	3
241	hsa-miR-29b-2*	3	4	9	8	2	2
242	hsa-miR-29c	27	36	232	894	3	6
243	hsa-miR-29c*	4	4	12	8	2	3
244	hsa-miR-300	4	3	11	8	1	3
245	hsa-miR-301a	80	69	21	20	103	52
246	hsa-miR-301b	4	5	9	7	4	4
247	hsa-miR-302a	22,408	25,043	3	3	21,816	23,669
248	hsa-miR-302a*	18,353	20,273	7	2	19,663	20,451
249	hsa-miR-302b	35,612	41,582	4	3	38,063	40,644
250	hsa-miR-302b*	542	674	1	5	986	687
251	hsa-miR-302c	10,344	12,474	3	6	6,469	10,205
252	hsa-miR-302c*	2,386	3,577	4	6	4,068	4,421
253	hsa-miR-302d	27,548	30,744	2	7	34,836	32,876
254	hsa-miR-302d*	741	949	2	5	1,026	1,680
255	hsa-miR-30a	199	244	288	310	151	172
256	hsa-miR-30a*	21	29	24	33	4	12
257	hsa-miR-30b	943	911	379	468	384	514
258	hsa-miR-30b*	6	6	7	18	4	4
259	hsa-miR-30c	2,335	2,138	459	605	1,192	2,185
260	hsa-miR-30c-1*	6	7	5	10	2	4
261	hsa-miR-30c-2*	6	5	7	12	3	5
262	hsa-miR-30d	253	265	525	507	184	201
263	hsa-miR-30d*	3	4	3	8	1	2
264	hsa-miR-30e	206	220	60	78	153	147
265	hsa-miR-30e*	34	60	7	10	3	15
266	hsa-miR-31	249	234	3,064	3,107	703	247
267	hsa-miR-31*	2	3	11	12	3	2
268	hsa-miR-32	1	3	3	9	1	1
269	hsa-miR-32*	2	5	2	5	2	2
270	hsa-miR-323-3p	2	4	23	41	1	2
271	hsa-miR-323-5p	5	3	12	9	2	2
272	hsa-miR-324-3p	7	6	14	16	4	6
273	hsa-miR-324-5p	13	13	35	37	61	22
274	hsa-miR-325	2	5	2	12	1	2
275	hsa-miR-326	4	4	6	13	3	5
276	hsa-miR-328	3	4	23	23	3	4
277	hsa-miR-329	8	5	173	232	0	2
278	hsa-miR-330-3p	13	18	10	12	12	11
279	hsa-miR-330-5p	2	4	2	11	2	2
280	hsa-miR-331-3p	52	52	42	39	294	120

(Continued)

SUPPLEMENTARY TABLE 1. COMPLETE NORMALIZED INTENSITY VALUES FOR miRNAs ACROSS ALL SAMPLES (Continued)

No.	Reporter name	<i>iPSC-1</i>	<i>iPSC-2</i>	<i>Fibro-1</i>	<i>Fibro-2</i>	<i>hESC-1</i>	<i>hESC-2</i>
		<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>
281	hsa-miR-331-5p	4	4	4	11	3	2
282	hsa-miR-335	234	601	13	36	46	211
283	hsa-miR-335*	37	115	10	11	7	37
284	hsa-miR-337-3p	1	4	33	97	2	3
285	hsa-miR-337-5p	3	6	59	60	1	1
286	hsa-miR-338-3p	4	4	2	11	1	1
287	hsa-miR-338-5p	4	5	5	7	1	2
288	hsa-miR-339-3p	6	8	16	15	5	3
289	hsa-miR-339-5p	6	5	16	13	3	5
290	hsa-miR-33a	7	5	9	5	1	1
291	hsa-miR-33a*	5	5	5	10	2	2
292	hsa-miR-33b	6	5	5	12	1	1
293	hsa-miR-33b*	7	7	15	10	2	4
294	hsa-miR-340	80	186	8	7	40	129
295	hsa-miR-340*	20	30	10	10	2	15
296	hsa-miR-342-3p	261	328	135	124	38	122
297	hsa-miR-342-5p	16	24	20	14	5	15
298	hsa-miR-345	12	11	23	21	51	19
299	hsa-miR-346	6	5	12	13	2	3
300	hsa-miR-34a	124	156	233	192	69	31
301	hsa-miR-34a*	9	9	13	10	3	3
302	hsa-miR-34b	22	22	4	9	2	2
303	hsa-miR-34b*	5	5	5	10	2	3
304	hsa-miR-34c-3p	15	16	6,950	2,337	610	611
305	hsa-miR-34c-5p	6	8	10	9	4	3
306	hsa-miR-361-3p	11	11	11	11	2	4
307	hsa-miR-361-5p	1,205	1,559	651	689	482	792
308	hsa-miR-362-3p	9	7	14	11	8	7
309	hsa-miR-362-5p	9	10	9	16	13	8
310	hsa-miR-363	1,545	1,451	4	6	2,113	1,611
311	hsa-miR-363*	26	27	4	7	46	66
312	hsa-miR-365	80	113	33	62	2	7
313	hsa-miR-367	239	261	2	9	1,803	254
314	hsa-miR-367*	4	4	5	5	2	2
315	hsa-miR-369-3p	4	4	18	10	2	2
316	hsa-miR-369-5p	2	2	11	16	3	2
317	hsa-miR-370	2	3	34	30	2	4
318	hsa-miR-371-3p	1	3	5	7	2	7
319	hsa-miR-371-5p	25	19	14	11	239	231
320	hsa-miR-372	7	6	8	9	214	105
321	hsa-miR-373	30	17	9	4	205	269
322	hsa-miR-373*	8	4	14	12	13	20
323	hsa-miR-374a	73	186	17	12	9	280
324	hsa-miR-374a*	2	2	4	8	1	2
325	hsa-miR-374b	550	1,156	14	24	561	2,030
326	hsa-miR-374b*	5	6	4	6	2	13
327	hsa-miR-375	215	133	4	4	28	128
328	hsa-miR-376a	4	2	133	225	2	3
329	hsa-miR-376a*	1	4	34	34	1	3
330	hsa-miR-376b	1	3	15	12	2	4
331	hsa-miR-376c	3	5	639	713	3	6
332	hsa-miR-377	21	16	49	71	16	28
333	hsa-miR-377*	1	4	13	7	2	3
334	hsa-miR-378	45	34	9	10	297	119
335	hsa-miR-378*	6	5	11	8	9	9
336	hsa-miR-379	5	5	459	523	2	3

SUPPLEMENTARY TABLE 1. COMPLETE NORMALIZED INTENSITY VALUES FOR miRNAs ACROSS ALL SAMPLES (Continued)

No.	Reporter name	<i>iPSC-1</i>	<i>iPSC-2</i>	<i>Fibro-1</i>	<i>Fibro-2</i>	<i>hESC-1</i>	<i>hESC-2</i>
		<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>
337	hsa-miR-379*	4	4	19	42	1	2
338	hsa-miR-380	5	2	10	9	1	1
339	hsa-miR-380*	4	3	12	9	2	3
340	hsa-miR-381	6	3	26	29	2	3
341	hsa-miR-382	4	5	505	607	1	3
342	hsa-miR-383	2	4	7	10	12	3
343	hsa-miR-384	2	4	8	8	1	3
344	hsa-miR-409-3p	4	5	34	37	3	3
345	hsa-miR-409-5p	1	4	19	16	2	3
346	hsa-miR-410	1	3	23	14	2	3
347	hsa-miR-411	2	3	62	53	1	2
348	hsa-miR-411*	4	3	62	68	2	3
349	hsa-miR-412	2	3	4	10	2	3
350	hsa-miR-421	324	384	36	46	696	1,077
351	hsa-miR-422a	5	4	7	7	9	8
352	hsa-miR-423-3p	6	5	13	8	3	4
353	hsa-miR-423-5p	946	1,316	878	844	1,095	1,231
354	hsa-miR-424	961	1,059	755	1,129	1,245	1,610
355	hsa-miR-424*	76	108	158	158	76	126
356	hsa-miR-425	308	239	190	156	662	423
357	hsa-miR-425*	7	8	19	14	12	9
358	hsa-miR-429	5	5	5	8	0	3
359	hsa-miR-431	2	3	41	49	1	3
360	hsa-miR-431*	3	3	5	6	2	2
361	hsa-miR-432	3	4	526	574	1	2
362	hsa-miR-432*	1	2	11	14	1	4
363	hsa-miR-433	2	2	107	138	2	5
364	hsa-miR-448	4	4	11	12	4	21
365	hsa-miR-449a	4	2	10	13	2	3
366	hsa-miR-449b	4	2	11	11	1	3
367	hsa-miR-450a	3	4	14	19	2	6
368	hsa-miR-450b-3p	2	2	11	13	2	4
369	hsa-miR-450b-5p	3	1	7	14	2	2
370	hsa-miR-451	38	5	12	12	2	3
371	hsa-miR-452	4	4	11	14	1	6
372	hsa-miR-452*	3	3	10	13	1	4
373	hsa-miR-453	3	3	9	16	2	3
374	hsa-miR-454	263	609	54	70	37	154
375	hsa-miR-454*	5	6	15	18	1	5
376	hsa-miR-455-3p	206	186	232	203	598	292
377	hsa-miR-455-5p	8	11	17	18	6	9
378	hsa-miR-483-3p	5	5	12	13	2	3
379	hsa-miR-483-5p	111	250	39	29	38	138
380	hsa-miR-484	80	83	171	132	157	131
381	hsa-miR-485-3p	7	4	150	140	2	5
382	hsa-miR-485-5p	4	3	34	33	2	4
383	hsa-miR-486-3p	10	9	13	15	5	7
384	hsa-miR-486-5p	96	85	13	12	21	31
385	hsa-miR-487a	5	3	64	83	2	2
386	hsa-miR-487b	6	4	707	725	2	4
387	hsa-miR-488	5	5	10	13	1	3
388	hsa-miR-488*	4	4	11	11	1	4
389	hsa-miR-489	33	32	11	11	59	89
390	hsa-miR-490-3p	4	4	12	19	1	4
391	hsa-miR-490-5p	4	4	53	58	2	3
392	hsa-miR-491-3p	7	4	5	12	3	6

(Continued)

SUPPLEMENTARY TABLE 1. COMPLETE NORMALIZED INTENSITY VALUES FOR miRNAs ACROSS ALL SAMPLES (Continued)

No.	Reporter name	<i>iPSC-1</i>	<i>iPSC-2</i>	<i>Fibro-1</i>	<i>Fibro-2</i>	<i>hESC-1</i>	<i>hESC-2</i>
		<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>
393	hsa-miR-491-5p	7	5	9	11	8	5
394	hsa-miR-492	6	6	7	12	3	4
395	hsa-miR-493	5	4	41	47	3	3
396	hsa-miR-493*	4	3	98	177	2	1
397	hsa-miR-494	6	7	815	771	2	4
398	hsa-miR-495	7	5	583	628	2	3
399	hsa-miR-496	4	3	16	10	2	3
400	hsa-miR-497	5	4	13	13	5	4
401	hsa-miR-497*	4	5	12	11	2	3
402	hsa-miR-498	46	35	12	11	126	182
403	hsa-miR-499-3p	5	3	7	12	2	3
404	hsa-miR-499-5p	5	5	5	7	2	3
405	hsa-miR-500	9	10	9	12	5	9
406	hsa-miR-500*	10	9	13	13	18	15
407	hsa-miR-501-3p	4	3	11	11	3	4
408	hsa-miR-501-5p	7	10	12	11	7	11
409	hsa-miR-502-3p	8	6	13	14	12	9
410	hsa-miR-502-5p	3	6	15	8	4	4
411	hsa-miR-503	163	285	187	149	310	343
412	hsa-miR-504	10	10	13	10	23	23
413	hsa-miR-505	52	59	8	11	41	76
414	hsa-miR-505*	87	142	24	25	78	134
415	hsa-miR-506	2	2	17	11	1	1
416	hsa-miR-507	2	3	10	5	1	1
417	hsa-miR-508-3p	2	4	11	10	1	0
418	hsa-miR-508-5p	2	2	18	13	1	2
419	hsa-miR-509-3-5p	3	4	12	11	2	2
420	hsa-miR-509-3p	3	3	14	5	3	4
421	hsa-miR-509-5p	3	3	19	14	5	5
422	hsa-miR-510	4	3	18	15	4	4
423	hsa-miR-511	2	2	12	9	2	1
424	hsa-miR-512-3p	42	34	13	6	938	437
425	hsa-miR-512-5p	5	3	19	5	82	27
426	hsa-miR-514	5	4	11	5	2	1
427	hsa-miR-515-3p	3	4	10	6	3	3
428	hsa-miR-515-5p	10	11	10	9	80	151
429	hsa-miR-516a-3p	3	3	9	12	1	4
430	hsa-miR-516a-5p	10	8	7	5	73	55
431	hsa-miR-516b	29	36	6	4	313	249
432	hsa-miR-517*	3	4	51	5	10	9
433	hsa-miR-517a	87	71	8	4	528	656
434	hsa-miR-517b	152	114	11	3	598	800
435	hsa-miR-517c	4	3	7	4	9	18
436	hsa-miR-518a-3p	3	2	10	7	1	1
437	hsa-miR-518a-5p	2	3	6	9	4	3
438	hsa-miR-518b	21	15	11	6	99	92
439	hsa-miR-518c	3	3	11	14	3	3
440	hsa-miR-518c*	5	4	16	11	21	21
441	hsa-miR-518d-3p	3	3	16	13	2	3
442	hsa-miR-518d-5p	23	25	15	10	299	206
443	hsa-miR-518e	5	3	17	12	8	12
444	hsa-miR-518e*	8	8	16	10	63	70
445	hsa-miR-518f	11	12	16	10	42	51
446	hsa-miR-518f*	17	23	17	12	297	200
447	hsa-miR-519a	2	3	14	12	21	12
448	hsa-miR-519b-3p	2	3	14	12	13	9

SUPPLEMENTARY TABLE 1. COMPLETE NORMALIZED INTENSITY VALUES FOR miRNAs ACROSS ALL SAMPLES (Continued)

No.	Reporter name	<i>iPSC-1</i>	<i>iPSC-2</i>	<i>Fibro-1</i>	<i>Fibro-2</i>	<i>hESC-1</i>	<i>hESC-2</i>
		<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>
449	hsa-miR-519c-3p	4	3	11	10	34	22
450	hsa-miR-519d	9	7	21	5	25	34
451	hsa-miR-519e	3	1	12	11	2	3
452	hsa-miR-519e*	5	5	19	10	95	33
453	hsa-miR-520a-3p	3	2	13	11	5	6
454	hsa-miR-520a-5p	6	5	11	10	125	49
455	hsa-miR-520b	4	4	13	11	28	22
456	hsa-miR-520c-3p	5	2	14	8	68	33
457	hsa-miR-520d-3p	5	2	10	8	3	7
458	hsa-miR-520d-5p	3	2	12	12	23	9
459	hsa-miR-520e	4	4	7	11	4	4
460	hsa-miR-520f	7	6	10	10	54	45
461	hsa-miR-520g	24	17	9	8	101	177
462	hsa-miR-520h	33	17	10	12	121	203
463	hsa-miR-521	3	2	9	11	3	2
464	hsa-miR-522	15	14	9	10	27	105
465	hsa-miR-523	1	2	9	12	2	3
466	hsa-miR-524-3p	2	4	15	10	12	8
467	hsa-miR-524-5p	5	5	16	12	31	17
468	hsa-miR-525-3p	3	5	16	11	2	3
469	hsa-miR-525-5p	17	11	4	6	223	90
470	hsa-miR-526b	8	11	8	4	16	48
471	hsa-miR-526b*	3	5	9	4	4	9
472	hsa-miR-532-3p	11	7	10	13	3	8
473	hsa-miR-532-5p	16	13	19	18	34	23
474	hsa-miR-539	3	5	49	49	2	3
475	hsa-miR-541	2	4	15	10	2	2
476	hsa-miR-541*	4	4	14	11	1	3
477	hsa-miR-542-3p	1	4	7	7	1	5
478	hsa-miR-542-5p	3	3	10	5	2	2
479	hsa-miR-543	2	3	61	55	1	2
480	hsa-miR-544	1	4	8	4	1	1
481	hsa-miR-545	2	3	5	5	1	3
482	hsa-miR-545*	1	3	6	4	1	2
483	hsa-miR-548a-3p	1	4	4	5	1	3
484	hsa-miR-548a-5p	1	3	9	7	2	3
485	hsa-miR-548b-3p	3	4	6	4	1	2
486	hsa-miR-548b-5p	3	3	9	4	1	1
487	hsa-miR-548c-3p	2	3	5	8	2	2
488	hsa-miR-548c-5p	3	3	9	6	1	3
489	hsa-miR-548d-3p	2	3	2	4	1	3
490	hsa-miR-548d-5p	2	3	8	6	1	2
491	hsa-miR-549	3	1	6	8	1	2
492	hsa-miR-550	5	5	10	8	3	6
493	hsa-miR-550*	14	11	6	6	17	10
494	hsa-miR-551a	4	5	10	5	6	4
495	hsa-miR-551b	9	8	9	11	12	7
496	hsa-miR-551b*	4	4	9	18	3	4
497	hsa-miR-552	1	1	11	5	1	1
498	hsa-miR-553	1	1	6	4	1	3
499	hsa-miR-554	1	1	5	6	1	2
500	hsa-miR-555	2	1	17	3	1	3
501	hsa-miR-556-3p	1	3	6	6	1	3
502	hsa-miR-556-5p	1	1	5	4	1	3
503	hsa-miR-557	3	5	10	4	3	4
504	hsa-miR-558	4	3	4	6	2	3

(Continued)

SUPPLEMENTARY TABLE 1. COMPLETE NORMALIZED INTENSITY VALUES FOR miRNAs ACROSS ALL SAMPLES (Continued)

No.	Reporter name	<i>iPSC-1</i>	<i>iPSC-2</i>	<i>Fibro-1</i>	<i>Fibro-2</i>	<i>hESC-1</i>	<i>hESC-2</i>
		<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>
505	hsa-miR-559	3	3	10	4	2	2
506	hsa-miR-561	1	4	4	4	1	1
507	hsa-miR-562	2	3	4	5	9	3
508	hsa-miR-563	3	4	10	12	3	2
509	hsa-miR-564	5	6	14	8	3	6
510	hsa-miR-566	3	3	4	5	1	4
511	hsa-miR-567	2	3	3	5	1	3
512	hsa-miR-568	2	2	8	12	1	2
513	hsa-miR-569	2	1	8	4	1	2
514	hsa-miR-570	1	3	3	7	1	2
515	hsa-miR-571	1	3	5	5	2	2
516	hsa-miR-572	4	4	9	17	5	5
517	hsa-miR-573	2	2	8	12	3	4
518	hsa-miR-574-3p	88	53	285	289	16	31
519	hsa-miR-574-5p	348	613	658	716	27	116
520	hsa-miR-575	21	22	10	14	8	17
521	hsa-miR-576-3p	3	3	10	10	4	5
522	hsa-miR-576-5p	3	3	7	11	2	3
523	hsa-miR-577	3	1	4	6	3	2
524	hsa-miR-578	4	3	8	7	2	3
525	hsa-miR-579	2	1	7	12	3	3
526	hsa-miR-580	2	0	8	13	2	3
527	hsa-miR-581	1	1	7	10	3	3
528	hsa-miR-582-3p	1	1	12	9	3	5
529	hsa-miR-582-5p	1	2	10	6	3	4
530	hsa-miR-583	1	3	9	12	3	4
531	hsa-miR-584	5	8	52	59	5	9
532	hsa-miR-585	2	1	9	11	3	3
533	hsa-miR-586	1	1	7	9	4	3
534	hsa-miR-587	3	1	13	12	3	3
535	hsa-miR-588	3	1	9	16	2	4
536	hsa-miR-589	4	3	10	15	4	4
537	hsa-miR-589*	5	4	7	10	6	5
538	hsa-miR-590-3p	2	1	2	10	2	3
539	hsa-miR-590-5p	4	5	4	12	5	5
540	hsa-miR-591	3	1	6	11	3	3
541	hsa-miR-592	1	1	5	10	3	4
542	hsa-miR-593	3	1	2	12	3	5
543	hsa-miR-593*	3	4	6	13	3	4
544	hsa-miR-595	1	1	1	10	2	5
545	hsa-miR-596	3	1	12	13	3	5
546	hsa-miR-597	1	1	5	6	3	2
547	hsa-miR-598	38	46	13	8	3	21
548	hsa-miR-599	2	3	5	5	2	1
549	hsa-miR-600	2	2	8	5	2	2
550	hsa-miR-601	7	8	9	8	2	3
551	hsa-miR-602	6	6	12	13	8	17
552	hsa-miR-603	4	3	7	6	1	4
553	hsa-miR-604	3	3	8	5	2	3
554	hsa-miR-605	5	4	13	7	4	4
555	hsa-miR-606	4	3	8	5	1	3
556	hsa-miR-607	2	3	7	5	1	2
557	hsa-miR-608	5	5	8	6	2	4
558	hsa-miR-609	2	3	11	3	1	2
559	hsa-miR-610	3	3	7	5	0	2
560	hsa-miR-611	4	4	13	7	1	3

SUPPLEMENTARY TABLE 1. COMPLETE NORMALIZED INTENSITY VALUES FOR miRNAs ACROSS ALL SAMPLES (Continued)

No.	Reporter name	<i>iPSC-1</i>	<i>iPSC-2</i>	<i>Fibro-1</i>	<i>Fibro-2</i>	<i>hESC-1</i>	<i>hESC-2</i>
		<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>
561	hsa-miR-612	8	14	15	7	7	23
562	hsa-miR-613	3	3	8	4	2	1
563	hsa-miR-614	3	2	8	4	2	4
564	hsa-miR-615-3p	5	3	9	8	2	6
565	hsa-miR-615-5p	4	2	15	9	3	4
566	hsa-miR-616	4	4	8	5	2	4
567	hsa-miR-616*	3	2	7	5	1	4
568	hsa-miR-617	4	2	7	5	2	1
569	hsa-miR-618	4	3	4	5	1	3
570	hsa-miR-619	3	2	4	6	1	1
571	hsa-miR-620	3	3	9	3	0	1
572	hsa-miR-621	3	2	12	6	0	1
573	hsa-miR-622	4	4	9	5	2	4
574	hsa-miR-623	5	4	11	5	1	2
575	hsa-miR-624	2	1	7	4	0	1
576	hsa-miR-624*	9	10	9	8	2	8
577	hsa-miR-625	6	9	12	7	24	16
578	hsa-miR-625*	19	19	11	16	7	17
579	hsa-miR-626	3	1	9	3	2	1
580	hsa-miR-627	5	1	12	3	2	1
581	hsa-miR-628-3p	6	5	9	7	4	9
582	hsa-miR-628-5p	4	3	6	5	2	4
583	hsa-miR-629	39	39	32	24	72	70
584	hsa-miR-629*	18	11	18	10	26	28
585	hsa-miR-630	3	1	7	10	2	3
586	hsa-miR-631	4	1	9	5	2	2
587	hsa-miR-632	2	0	9	3	1	2
588	hsa-miR-633	1	1	4	3	1	1
589	hsa-miR-634	4	1	9	9	1	1
590	hsa-miR-635	1	1	5	6	1	1
591	hsa-miR-636	4	5	10	7	2	2
592	hsa-miR-637	4	5	8	10	3	7
593	hsa-miR-638	6,317	5,927	2,329	1,695	7,483	7,778
594	hsa-miR-639	1	1	4	7	1	3
595	hsa-miR-640	1	2	6	10	2	4
596	hsa-miR-641	5	5	6	11	8	7
597	hsa-miR-642	4	1	8	5	3	3
598	hsa-miR-643	3	3	4	12	3	3
599	hsa-miR-644	1	2	12	9	2	4
600	hsa-miR-645	3	1	9	13	2	2
601	hsa-miR-646	1	2	12	13	2	3
602	hsa-miR-647	3	3	12	11	2	4
603	hsa-miR-648	3	1	6	12	2	2
604	hsa-miR-649	3	1	17	11	1	4
605	hsa-miR-650	4	3	13	12	3	3
606	hsa-miR-651	1	1	4	10	1	3
607	hsa-miR-652	16	16	11	12	16	25
608	hsa-miR-653	1	1	10	9	2	3
609	hsa-miR-654-3p	2	1	114	144	3	2
610	hsa-miR-654-5p	4	8	40	38	3	7
611	hsa-miR-655	1	1	9	6	2	1
612	hsa-miR-656	1	0	12	14	2	2
613	hsa-miR-657	3	0	12	15	2	3
614	hsa-miR-658	4	5	11	5	4	8
615	hsa-miR-659	6	3	11	12	4	5
616	hsa-miR-660	17	12	14	10	4	12

(Continued)

SUPPLEMENTARY TABLE 1. COMPLETE NORMALIZED INTENSITY VALUES FOR miRNAs ACROSS ALL SAMPLES (Continued)

No.	Reporter name	<i>iPSC-1</i>	<i>iPSC-2</i>	<i>Fibro-1</i>	<i>Fibro-2</i>	<i>hESC-1</i>	<i>hESC-2</i>
		<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>
617	hsa-miR-661	1	1	4	13	2	3
618	hsa-miR-662	1	1	8	9	3	4
619	hsa-miR-663	1,183	1,754	390	264	1,915	2,436
620	hsa-miR-665	3	2	6	16	2	4
621	hsa-miR-668	3	1	21	13	2	4
622	hsa-miR-671-3p	2	2	18	13	4	5
623	hsa-miR-671-5p	44	53	52	66	40	63
624	hsa-miR-675	4	1	10	12	2	5
625	hsa-miR-7	101	253	67	117	82	307
626	hsa-miR-708	92	70	155	151	613	368
627	hsa-miR-708*	1	1	6	5	4	4
628	hsa-miR-7-1*	42	29	21	20	18	45
629	hsa-miR-7-2*	1	0	8	11	3	2
630	hsa-miR-744	56	70	71	59	185	108
631	hsa-miR-744*	3	3	12	3	2	2
632	hsa-miR-758	1	1	38	35	2	1
633	hsa-miR-760	6	6	11	7	10	14
634	hsa-miR-765	26	87	14	13	13	47
635	hsa-miR-766	11	8	19	12	23	21
636	hsa-miR-767-3p	1	3	7	8	2	1
637	hsa-miR-767-5p	6	6	6	2	3	4
638	hsa-miR-768-3p	49	92	110	86	37	83
639	hsa-miR-768-5p	90	156	190	130	56	166
640	hsa-miR-769-3p	6	3	7	9	6	4
641	hsa-miR-769-5p	9	5	12	14	30	11
642	hsa-miR-770-5p	4	2	6	14	2	3
643	hsa-miR-802	2	1	1	5	2	2
644	hsa-miR-873	4	3	57	4	1	2
645	hsa-miR-874	8	7	14	8	2	5
646	hsa-miR-875-3p	4	1	9	6	1	1
647	hsa-miR-875-5p	1	1	1	7	1	0
648	hsa-miR-876-3p	3	1	2	4	1	1
649	hsa-miR-876-5p	1	2	8	4	2	2
650	hsa-miR-877	176	279	97	71	196	181
651	hsa-miR-885-3p	3	2	6	10	2	7
652	hsa-miR-885-5p	5	2	13	13	2	2
653	hsa-miR-886-3p	5	3	14	16	2	1
654	hsa-miR-886-5p	152	147	145	161	3	2
655	hsa-miR-887	6	3	11	12	1	1
656	hsa-miR-888	4	1	8	9	3	1
657	hsa-miR-888*	3	0	5	8	2	1
658	hsa-miR-889	3	1	9	16	1	0
659	hsa-miR-890	3	1	7	7	2	1
660	hsa-miR-891a	4	2	10	5	1	1
661	hsa-miR-891b	2	1	4	5	1	1
662	hsa-miR-892a	2	1	4	7	1	1
663	hsa-miR-892b	2	1	4	7	1	2
664	hsa-miR-9	10	18	3	6	2	7
665	hsa-miR-9*	7	3	5	4	2	4
666	hsa-miR-920	3	2	4	8	1	2
667	hsa-miR-921	1	1	5	7	2	1
668	hsa-miR-922	1	0	4	6	1	1
669	hsa-miR-923	2,427	3,401	659	629	1,781	2,318
670	hsa-miR-924	2	1	6	6	3	3
671	hsa-miR-92a	23,708	20,276	3,614	3,345	14,904	15,160
672	hsa-miR-92a-1*	79	121	8	9	40	109

SUPPLEMENTARY TABLE 1. COMPLETE NORMALIZED INTENSITY VALUES FOR miRNAs ACROSS ALL SAMPLES (Continued)

No.	Reporter name	<i>iPSC-1</i>	<i>iPSC-2</i>	<i>Fibro-1</i>	<i>Fibro-2</i>	<i>hESC-1</i>	<i>hESC-2</i>
		<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>	<i>Averaged signal</i>
673	hsa-miR-92a-2*	47	76	10	5	55	68
674	hsa-miR-92b	15,801	17,368	560	625	7,415	9,948
675	hsa-miR-92b*	69	91	24	13	35	51
676	hsa-miR-93	2,497	2,276	447	432	4,535	2,906
677	hsa-miR-93*	13	16	17	11	16	21
678	hsa-miR-933	6	5	18	15	8	5
679	hsa-miR-934	1	1	6	17	1	2
680	hsa-miR-935	3	1	13	9	1	3
681	hsa-miR-936	12	45	17	14	18	239
682	hsa-miR-937	2	2	13	14	3	3
683	hsa-miR-938	0	1	8	5	2	5
684	hsa-miR-939	30	17	15	15	4	6
685	hsa-miR-940	14	14	49	23	28	12
686	hsa-miR-941	2	1	12	14	2	2
687	hsa-miR-942	1	1	9	11	1	2
688	hsa-miR-943	2	2	8	9	2	1
689	hsa-miR-944	1	0	6	10	1	1
690	hsa-miR-95	3	3	4	4	1	3
691	hsa-miR-96	4	3	5	4	59	29
692	hsa-miR-96*	2	1	3	11	2	3
693	hsa-miR-98	5	0	210	238	1	1
694	hsa-miR-99a	13	5	1,192	1,977	3	4
695	hsa-miR-99a*	1	1	6	8	1	3
696	hsa-miR-99b	464	309	1,504	1,250	897	535
697	hsa-miR-99b*	1	1	8	12	2	2