

Supplementary Digital Content (SDC) accompanying
“MicroRNA Sequence Profiles of Human Kidney Allografts With or Without
Tubulointerstitial Fibrosis”

Iddo Z. Ben-Dov, Thangamani Muthukumar, Pavel Morozov, Franco B. Mueller,
Thomas Tuschl and Manikkam Suthanthiran

SUPPLEMENTARY METHODS

Study Cohorts

We studied 26 kidney allograft biopsy samples from 26 kidney-transplant recipients who had undergone either a clinically-indicated kidney allograft biopsy or a protocol biopsy. Allograft tissue obtained at the time of biopsy was immediately placed in *RNAlater* (Applied Biosystems, Carlsbad, CA) and stored at -80°C until subsequent processing. The biopsies were read by a single pathologist, blinded to the miRNA results, and classified according the Banff schema(1). All patients provided informed consent and the Institutional Review Board approved the study. Allograft tissue obtained at the time of biopsy was placed immediately in *RNAlater* (Applied Biosystems, Carlsbad, CA) and stored at -80°C until subsequent batch processing.

RNA Isolation

Total RNA was isolated from the biopsies using *mirVana* miRNA isolation kit (Applied Biosystems, Carlsbad, CA), without enrichment for small-RNA, and used for either small-RNA sequencing or RT-QPCR. RNA integrity was assessed using Agilent RNA 6000 Nano Assay kit and Agilent 2100 Bioanalyzer (Agilent Technologies, Santa Clara CA).

cDNA Library Preparation, miRNA Sequencing and Data Analyses

A barcoded small RNA cDNA library was prepared from biopsy-extracted RNA as previously described (2). We used 0.5 μg of total RNA from each sample for library preparation. coded 3'-adapters were ligated to RNA in each sample. The 3'-adapter ligation reaction was based on our published method, with a modification for lower input RNA quantities: the final concentrations of 3' adenylated adapters (5 M), mutated Rnl2 ligase (0.05 $\mu\text{g}/\mu\text{l}$) and radiolabeled size markers were unchanged, while the synthetic calibrator cocktail consisting of ten 22 nt oligoribonucleotides, with sequences non-cognate to the human miRNA transcriptome, was added at a

final amount of 0.25 fmol for each of the calibrator oligonucleotides per 1 µg total RNA from the biological sample (1.25 fmol pooled amount per 3' ligation reaction on 0.5 µg total RNA). This cocktail allowed absolute quantification of miRNA content in samples. Subsequent pooled library preparation steps were performed as previously described (2). Amplified cDNA libraries underwent 36 cycles of single-end sequencing by synthesis (Illumina Genome Analyzer II). We used an in-house computer pipeline to extract barcodes, align to the genome (hg19) and assign small RNA annotations to the reads. miRNA abundance was determined as the sum of all reads with up to 2 annotation mismatches (38) and presented as normalized read frequency, namely the ratio of the specific miRNA read count to the total number of miRNA reads. In-house curated definitions were used for miRNA annotation as well as sequence family and precursor cluster grouping (3).

Heatmaps ('pheatmap') and multidimensional-scaling plot ('scatterplot3d') were generated using R/Bioconductor. We tested for differentially expressed miRNA with DESeq (4) and used a published Argonaute PAR-CLIP dataset (5) to identify targets of differentially expressed miRNA (6). MiRNA profiling from cell-lines and PBMCs were performed with 2µg total RNA (TRIzol/chloroform-extracted and isopropanol-precipitated). Skin fibroblasts (HDFa) were purchased from Cascade Biologics (C-013-5C), and HK2 proximal tubular cell pellets were provided by Dr. Moin A. Saleem (Bristol, UK). PBMCs were obtained by Ficoll separation of a peripheral blood sample collected as part of an IRB-approved study of miRNA profiling in healthy volunteers at the Rockefeller University Hospital.

MiRNA Quantification by RT-QPCR Assay

We used real-time quantitative PCR assay to quantify selected miRNAs from kidney allograft biopsies of the independent validation cohort of 18 kidney-transplant recipients; 10 with IFTA and 8 Normal biopsies. Total RNA was isolated as described above. We reverse-transcribed 100 ng of RNA using Megaplex™ RT primers pool A and B separately (Applied Biosystems,

Carlsbad, CA) followed by 12-cycle preamplification of the cDNA using Megaplex PreAmp Primers pool A and B. We measured levels of miRNA with TaqMan miRNA assays using a previously-described standard curve method on an ABI Prism 7700 system (Applied Biosystems, Carlsbad, CA). We measured the levels of RNU6B, a small nuclear RNA as an endogenous control in each sample. MiRNA levels were expressed as copies per μg of total RNA.

Association between miRNA expression and allograft outcomes

To evaluate the relationship between differentially expressed miRNAs and allograft outcome we linked log-transformed miRNA copy numbers in the validation cohort with the following allograft outcome measures: graft survival time, slope of reciprocal of serum creatinine from 0-6 months and from 0-36 months post biopsy. We divided the kidney transplant recipients into two groups based on the median level of miRNAs (high and low) and compared the allograft survival between the two groups using Mantel-Cox log-rank test. We used Spearman correlation (r_s) to assess the association between miRNAs level and slope of reciprocal of serum creatinine. To test the independent association between miRNAs and biopsy diagnosis we used the multivariate general linear model. We used SPSS 17 for statistical analyses.

REFERENCES FOR SUPPLEMENTAL DIGITAL CONTENT

1. Sis B, Mengel M, Haas M, et al. Banff '09 meeting report: antibody mediated graft deterioration and implementation of Banff working groups. *Am J Transplant* 2010; 10 (3): 464.
2. Hafner M, Renwick N, Brown M, et al. RNA-ligase-dependent biases in miRNA representation in deep-sequenced small RNA cDNA libraries. *RNA* 2011; 17 (9): 1697.
3. Farazi TA, Horlings HM, Ten Hoeve JJ, et al. MicroRNA sequence and expression analysis in breast tumors by deep sequencing. *Cancer Res* 2011; 71 (13): 4443.
4. Anders S, Huber W. Differential expression analysis for sequence count data. *Genome Biol* 2010; 11 (10): R106.
5. Hafner M, Landthaler M, Burger L, et al. Transcriptome-wide identification of RNA-binding protein and microRNA target sites by PAR-CLIP. *Cell* 2010; 141 (1): 129.
6. Betel D, Wilson M, Gabow A, Marks DS, Sander C. The microRNA.org resource: targets and expression. *Nucleic Acids Res* 2008; 36 (Database issue): D149.

SUPPLEMENTARY FIGURE AND LEGEND

Figure S1. MicroRNA Target Identification

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Forward: Score: 140.000000  Q:2 to 9  R:10 to 32 Align Len (7) (100.00%) (100.00%)

miR-21:      3' cagttgtagtcagacTATTCGAt 5'
              |||||
SMAD7:       5' tgtttagactttaacATAAGCTa 3'

Energy:  -8.980000 kCal/Mol

Scores for this hit:
>sf-hsa-miR-21(1)  slc5941 chr18  140.00  -8.98  2 9 10 32  7  100.00%  100.00%

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An example of a miR-21 target, SMAD7, identified by querying a published Argonaute PAR-CLIP dataset (suppl ref # 5), as aligned and scored by miRanda (suppl ref #6). Colored “t” represents a position found to be crosslinked according to PAR-CLIP T to C transition signature.

SUPPLEMENTARY TABLES

Supplementary tables S1 to S8 are attached with this file. They can be also viewed in spreadsheet form or downloaded as Excel file using the link:

<https://docs.google.com/open?id=0B9P7M7JIbHYcM0o4WXdkSXRqLXM>

Table S1. Clinical characterization of Discovery patient samples analyzed by deep sequencing

Table S2. Summary of sequencing statistics for each sample, including information on barcode use, extraction statistics, small RNA annotation categories, miRNA and spike mapping distances, and miRNA quantitation

Table S3. Insert clones (≥ 10 reads) that successfully mapped to the genome but not assigned small RNA annotation (annotation = 'none')

Table S4. MiRNA definitions (from supplemental reference #3)

Table S5. (A) Merged mature miRNA profiles
(B) MiRNA genomic cluster profiles
(C) MiRNA sequence family profiles

Table S6. Differential expression analysis for sequence count data

Table S7. MiRNA RT-PCR results of Validation cohort kidney biopsies

Table S8. (A) PAR-CLIP clusters (from supplemental reference #5) with miR-21 seed identified with in-house script
(B) PAR-CLIP clusters (from supplemental reference #5) with miR-21 seed identified with miRanda

Supplemental Digital Content (SDC)

Supplementary Table S1: Clinical characterization of patient samples analyzed by deep sequencing

Cloning ID	Demographic and clinical information												
	Diagnosis group	Gender	Ethnicity	Age, yr.	Donor type	Donor gender	Donor ethnicity	Donor age, yr.	Months from transplantation to biopsy	Prior acute rejection	Biopsy indication	Immuno-suppression	Creatinine at biopsy, mg/dl
M1	IFTA	female	Black	60	deceased	female	White	58	1	no	protocol	tacrolimus/ MMF	1.7
M2	IFTA	male	Hispanic	45	deceased	female	White	51	5.2	no	protocol	tacrolimus/ MMF	1.1
M3	IFTA	male	White	27	living	female	White	56	6	no	graft dysfunction	tacrolimus/ MMF	2.1
M4	IFTA	female	Asian	26	living	male	Asian	45	114	no	graft dysfunction	sirolimus/ MMF/steroids	3.3
M5	Stable	male	Hispanic	33	living	male	Hispanic	36	13	no	protocol	tacrolimus/ MMF	1.4
M6	Stable	male	White	46	living	female	White	40	14	no	protocol	tacrolimus/ sirolimus/MMF	1.3
M7	Stable	female	Asian	37	living	male	Asian	28	16	no	protocol	tacrolimus/ MMF	0.9
M8	Stable	female	Hispanic	58	living	male	Hispanic	36	13	no	protocol	tacrolimus/ sirolimus	0.8

Supplemental Digital Content (SDC)

Supplementary Table S1: Clini

Cloning ID	Diagnosis group	Pathological classification			Kidney function -- eGFR, ml/min/1.73m ²								eGFR slope, ml/min/1.73m ² /month	
		Banff diagnostic category	Banff grade	C4d staining	At biopsy	3 mo.	6 mo.	9 mo.	12 mo.	18 mo.	24 mo.	36 mo.	0 to 12 mo.	0 to 36 mo.
M1	IFTA	5	II	negative	39	39	46	49	42	39	42	39	0.5	-0.1
M2	IFTA	5	II	negative	72	81	81	72	72	72	65	65	-0.3	-0.8
M3	IFTA	5	II	negative	40	43	43	45	45	48	45	51	0.4	0.3
M4	IFTA	5	II	negative	18	17	14	-	-	-	-	-	-1.2	-
M5	Stable	1	-	negative	62	68	68	62	53	62	61	61	-0.8	-0.1
M6	Stable	1	-	negative	63	63	63	54	53	49	49	53	-1	-0.4
M7	Stable	1	-	negative	91	91	91	103	121	103	90	89	2.4	-0.1
M8	Stable	1	-	negative	78	78	78	68	78	78	78	78	-0.3	0

Supplemental Digital Content (SDC)

Supplementary Table S2: Summary of sequencing statistics for each sample, including information on barcode use, extraction statistics, small RNA annotation categories, miRNA and spike mapping distances, and miRNA quantitation

Sample name and barcode			Extraction statistics sample				Small RNA annotation categories excluding spike (miRNA reads based on mapping to miRNA precursor)									
Sample ID	Barcode	Sequencing run	Total reads	Unique reads	Spikes	% Spike	Human miRNAs	% miRNA	rRNA	% rRNA	tRNA	% tRNA	sn/snoRNA	% sn/snoRNA	Other*	% Other*
M1	TCACT	494	116683	14885	59524	51.01%	48866	85.5%	1826	3.2%	412	0.7%	80	0.1%	5975	10.5%
M2**	TCATC	494	10728	2401	8583	80.01%	547	25.5%	417	19.4%	35	1.6%	100	4.7%	1046	48.8%
M3	TCCAC	494	151760	20394	50406	33.21%	90419	89.2%	1593	1.6%	1300	1.3%	117	0.1%	7925	7.8%
M4	TCCGT	494	236509	25568	69252	29.28%	154768	92.5%	2340	1.4%	895	0.5%	195	0.1%	9059	5.4%
M5	TCCTA	494	245320	27582	68562	27.95%	162228	91.8%	2454	1.4%	1670	0.9%	405	0.2%	10001	5.7%
M6	TCGAT	494	314202	31257	74342	23.66%	222166	92.6%	2756	1.1%	1835	0.8%	245	0.1%	12858	5.4%
M7	TCGCG	494	281504	57172	46350	16.47%	157526	67.0%	56645	24.1%	2336	1.0%	1569	0.7%	17078	7.3%
M8	TCTAG	494	313179	31847	64926	20.73%	232749	93.8%	2709	1.1%	1542	0.6%	305	0.1%	10948	4.4%

Footnotes:

*, 'Other' category includes viral miRNAs, piRNAs, non-prototypical doubtful miRNAs, miscellaneous RNA, repeat masker, sequences that mapped to the genome but have no annotation, sequences that did not map to the genome and have no annotation

**, Sample 2 yielded ~10-fold less total reads and ~100-fold less miRNA reads compared to other samples, probably due to a technical problem prior to or during 3' adapter ligation

Supplemental Digital Content (SDC)

Supplementary Table S2: Summary

Sample name and barcode			miRNA mapping distance				Spike mapping distance				miRNA content
Sample ID	Barcode	Sequencing run	miRNA dist0	miRNA dist1	miRNA dist2	% mismatched miRNA	Spike dist0	Spike dist1	Spike dist2	% mismatched spikes	fmol/µg of total RNA
M1	TCACT	494	34057	12343	2479	30.3%	42875	14062	2587	28.0%	1.6
M2**	TCATC	494	383	131	34	30.1%	5822	2296	465	32.2%	0.1
M3	TCCAC	494	61315	24079	5038	32.2%	34425	13228	2753	31.7%	3.6
M4	TCCGT	494	104344	41590	8849	32.6%	47914	17617	3721	30.8%	4.5
M5	TCCTA	494	109433	43983	8824	32.5%	48595	16495	3472	29.1%	4.7
M6	TCGAT	494	143840	64771	13578	35.3%	52666	18078	3598	29.2%	6.0
M7	TCGCG	494	104627	43577	9351	33.6%	31780	11935	2635	31.4%	6.8
M8	TCTAG	494	159884	60731	12150	31.3%	45368	16274	3284	30.1%	7.2

Footnotes:
*, 'Other' category includes viral miRN
**, Sample 2 yielded ~10-fold less tota

Supplemental Digital Content (SDC)

Supplementary Table S3: Insert clones (≥10 reads) that successfully mapped to the genome but not assigned small RNA annotation (annotation = 'none')

Serial #	Copies	Sequence	length	MapErr	genome	coordinates	probable annotation
3	234	TGAGATGAAGCACTGTAGAAA	21	1	1(+1)	chr4:169086064-169086084[+]	miR-143-3p
7	151	AAGGTAGATAGAACAGGCTTTG	22	0	1(+0)	chr15:83424761-83424782[+]	
14	120	GAAGCGGGTGCTCTTATTTT	20	0	1(+0)	chr10:69524343-69524362[+]	
15	117	AAAAATTTCCGTTGGGAAAA	19	1	2(+1)/1(-1)	chr11:104078032-104078050[+]	
16	101	AAAAATTTCCGTTGGGAAAA	19	1	2(+1)/2(-1)	chr11:104078033-104078051[+]	
17	99	GAAGCGGGTGCTCTTATTTT	19	0	1(+0)	chr10:69524343-69524361[+]	
18	98	AAAAATTTCCGTTGGGAAAAAA	21	1	1(-1)	chr6:38686632-38686652[-]	
20	92	TGAGATGAAGCACTGTAAAA	20	1	1(-1)	chr8:130209814-130209833[-]	
21	86	AAAAATTTCCGTTGGGAAAAA	20	1	2(-1)	chr15:86158193-86158212[-]	
22	83	AATTTCCGTTGGGAAAAAA	20	1	2(-1)	chr3:79610122-79610141[-]	
24	82	TAGGTTGAGGCCGTTGAGC	19	1	1(-1)	chr2:38705069-38705087[-]	miR-143-3p
26	78	AAAAATTTCCGTTGGGAAAAA	20	1	1(+1)	chr11:104078032-104078051[+]	
27	78	AATTTCCGTTGGGAAAAAA	21	1	1(-1)	chr3:79610121-79610141[-]	
31	76	AATTTCCGTTGGGAAAAA	19	1	2(+1)/4(-1)	chr15:86158193-86158211[-]	
32	75	AAGGTAGATAGAACAGGCTTTGA	23	1	1(+1)	chr15:83424761-83424783[+]	
35	73	AATTTCCGTTGGGAAAAAA	19	1	2(-1)	chr3:79610123-79610141[-]	
36	73	TGAGATGAAGCACTGTAGAAAA	22	1	1(+1)	chr4:169086064-169086085[+]	
37	68	AAAAATTTCCGTTGGGAAAAAA	22	1	1(-1)	chr6:38686631-38686652[-]	
39	64	AAATTTCCGTTGGGAAAAAA	20	1	2(-1)	chr3:79610123-79610142[-]	
42	60	ACCTCAGAAGGTCCTCACTTTT	21	0	1(-0)	chr16:22207010-22207030[-]	miR-143-3p
45	59	TTAACCTTAAAGAAGGAGATA	20	1	1(+1)/2(-1)	chr12:100635110-100635129[-]	
51	55	AAATTTCCGTTGGGAAAAAA	21	1	2(-1)	chr3:79610122-79610142[-]	
52	55	GCTAAGGAAGTCCTGTGCTCAGTTT	25	0	1(+0)	chr17:8090266-8090290[+]	
69	46	AAAGGTTGCTTTGTAAAAA	19	1	1(-1)	chr18:72588606-72588625[-]	
71	46	AACGTGGCATTCTCGAATAGA	22	1	1(+1)	chr11:132209992-132210013[+]	
77	41	AAATTTCCGTTGGGAAAAAA	22	1	1(-1)	chr3:79610121-79610142[-]	
96	33	GTCCCACTCCGTATCTGTTT	20	1	1(-1)	chr11:119619953-119619972[-]	
100	31	AAGGTAGATAGAACAGGCTTTGT	23	0	1(+0)	chr15:83424761-83424783[+]	
106	30	TAGGGAGGTTATGATTAACTTT	22	1	1(+1)	chr15:89878377-89878398[+]	miR-143-3p
108	30	TGTGCTCCGGAGTTACCTCGTTT	23	0	1(-0)	chr17:37310720-37310742[-]	
111	29	CTGGCTCTGGCTGGCTGGC	19	0	1(-0)	chr1:16939200-16939218[-]	
126	26	AGGTAGATAGAACAGGCTTTG	21	0	1(+0)	chr15:83424762-83424782[+]	
132	25	ACAGATGATGAACCTATTGACG	22	0	1(-0)	chr22:39715096-39715117[-]	
142	24	TTGGGATTGACTGGTGGGG	19	0	1(-0)	chr4:30578384-30578402[-]	
144	23	AAATAAGGGGGTTTAAAGCTCCTATA	25	1	1(-1)	chrM:4304-4328[-]	
150	22	AGGTTGGATAAGTAAGAGCC	20	1	1(-1)	chr11:8601288-8601307[-]	
170	20	GATAATGGCCCATTTGGGCAAA	22	0	2(-0)	chr1:565799-565820[-]	
171	20	GATGTCATCTTACTACTGAGA	21	0	1(-0)	chr11:62622487-62622507[-]	miR-143-3p
178	20	TTAACCTTAAAGAAGGAGAT	19	1	3(+1)/3(-1)	chr12:100635111-100635129[-]	
180	20	TTGACTGAAGCTGATGATGAGT	22	0	1(-0)	chr20:2443640-2443661[-]	
182	19	AGGGAGGTTATGATTAACTTT	21	0	1(+0)	chr15:89878378-89878398[+]	
184	19	ATTTCCGTTGGGAAAAAA	22	1	1(+1)	chrX:96188214-96188235[+]	
187	19	GTCTGTGATGAATTGCTTTG	20	0	1(-0)	chr16:2205086-2205105[-]	
197	18	AAGGTAGATAGAACAGGCTCT	21	0	1(+0)	chr15:83424761-83424781[+]	
206	18	TAGCCGTAAGGCGGCTGTTTT	21	0	1(-0)	chrX:18693008-18693028[-]	
217	17	AGAACGCCTGAACGCAAGGC	19	0	1(+0)	chrM:11180-11198[+]	
229	16	AACCGAGCGTCCAAGCTCTT	21	0	1(+0)	chr19:33668038-33668058[+]	miR-143-3p
232	16	CTAATGTTCCGGCGTTATT	19	1	1(+1)	chr9:86673017-86673035[+]	
235	16	GAAGCGGGTGCTCTTATTTT	21	0	1(+0)	chr10:69524343-69524363[+]	
237	16	GGGCCACTGAGACACCATGATGGA	24	0	1(+0)	chr3:184043519-184043542[+]	
243	15	AGGTAGATAGAACAGGCTCTGA	22	1	1(+1)	chr15:83424762-83424783[+]	
249	15	GTTGGAGGATGAAAGTACGGAGTGA	25	0	1(-0)	chr16:71792361-71792385[-]	
262	14	CAGTTGACTTTTAAATCAATT	20	1	1(+1)/1(-1)	chr4:185634677-185634696[+]	
265	14	GTCCCGTTTTCCCGGCCTCC	21	1	1(-1)	chr14:23388613-23388633[-]	
270	14	TAGGGAGGTTATGATTAACTTTT	23	1	1(+1)	chr15:89878377-89878399[+]	
283	13	ATATCTCCTCTTAAAGTTA	20	1	1(+1)	chr6:103793163-103793182[+]	let-7f-1-5p?
285	13	CTTGACTGAAGCTGATGATGAGT	23	0	1(-0)	chr20:2443640-2443662[-]	
289	13	GTGTAAGCAGGGTCGTTTT	19	0	1(+0)	chr6:26537799-26537817[+]	
295	13	TGAGGTCGTAGGTTGTCTCGTT	22	1	1(-1)	chr10:129839233-129839254[-]	
307	12	AGAACGCCTGAACGCAAGGCAAA	22	1	1(+1)	chrM:11180-11201[+]	
315	12	CTTCGTGATCGATGTGGTGACG	22	0	2(+0)	chrUn_gl000220:105848-105869[+]	
317	12	GAAGGTCGTCATATGTTTA	19	1	1(-1)	chr22:48214018-48214036[-]	
320	12	GTGTATGATGACAACCTCGGT	20	0	1(+0)	chr1:45241537-45241556[+]	
329	12	TGAGCTGCAGCACTGTAGCTCT	22	1	1(-1)	chr2:28688620-28688641[-]	
331	12	TGAGGTAGTATTGTATAGTT	20	1	1(-1)	chr18:61279939-61279959[-]	
345	11	ACAGATGATGAACCTATTGAC	21	0	1(-0)	chr22:39715097-39715117[-]	miR-143-3p
348	11	AGAACGCCTGAACGCAAGGCACA	22	0	1(+0)	chrM:11180-11201[+]	
350	11	AGTCTGTGATGAATTGCTT	19	0	1(-0)	chr16:2205088-2205106[-]	
351	11	AGTCTGTGATGAATTGCTT	20	0	1(-0)	chr16:2205087-2205106[-]	
352	11	AGTGCCATGTCCGGTTTCT	19	1	2(-1)	chrX:24227037-24227055[-]	
356	11	CTTGACTGAAGCTGATGATGAG	22	0	1(-0)	chr20:2443641-2443662[-]	
359	11	GTAGTAGCCCGTAGGGGCA	19	1	1(-1)	chrM:3428-3446[-]	
368	11	TGAGATGAAGCACTGTAGAAAAA	23	1	1(+1)	chr4:169086064-169086086[+]	
383	10	AAGGTTGCTTTGTAAAAAA	19	1	1(+1)	chr1:246583785-246583803[+]	
389	10	AGACCTACTTATCTACCAACAG	22	0	1(+0)	chr15:83424800-83424821[+]	miR-143-3p
406	10	GGGGCTGATTCTGGATTCTG	19	1	1(-1)	chrX:65003486-65003504[-]	
411	10	TAAAAATTTCCGTTGGGAAA	20	1	1(-1)	chr15:72494417-72494436[-]	
416	10	TATCCGCTCAAAATCCCA	19	1	1(-1)	chr18:53089918-53089936[-]	

Supplementary Table S4: MiRNA definitions (from supplemental reference #3)

miR name	Predominant miR sequence	Genomic cluster	Sequence family	Merged mature miR name
hsa-let-7a-1	TGAGGTAGTAGGTTGTATAGTT	cluster-hsa-mir-98(13)	sf-hsa-let-7a-1(12)	hsa-let-7a(3)
hsa-let-7a-1*	CTATACAATCTACTGTCTTTC	cluster-hsa-mir-98(13)	sf-hsa-let-7a-1*(11)	hsa-let-7a*(2)
hsa-let-7a-2	TGAGGTAGTAGGTTGTATAGTT	cluster-hsa-mir-98(13)	sf-hsa-let-7a-1(12)	hsa-let-7a(3)
hsa-let-7a-2*	CTGTACAGCCTCCTAGCTTTCC	cluster-hsa-mir-98(13)	sf-hsa-let-7a-1*(11)	hsa-let-7a-2*
hsa-let-7a-3	TGAGGTAGTAGGTTGTATAGTT	cluster-hsa-mir-98(13)	sf-hsa-let-7a-1(12)	hsa-let-7a(3)
hsa-let-7a-3*	CTATACAATCTACTGTCTTTC	cluster-hsa-mir-98(13)	sf-hsa-let-7a-1*(11)	hsa-let-7a*(2)
hsa-let-7b	TGAGGTAGTAGGTTGTGTGGTT	cluster-hsa-mir-98(13)	sf-hsa-let-7a-1(12)	hsa-let-7b
hsa-let-7b*	CTATACAACCTACTGCCTTCC	cluster-hsa-mir-98(13)	sf-hsa-let-7a-1*(11)	hsa-let-7b*
hsa-let-7c	TGAGGTAGTAGGTTGTATAGTT	cluster-hsa-mir-98(13)	sf-hsa-let-7a-1(12)	hsa-let-7c
hsa-let-7c*	CTGTACAACCTTCTAGCTTTCC	cluster-hsa-mir-98(13)	sf-hsa-let-7a-1*(11)	hsa-let-7c*
hsa-let-7d	AGAGGTAGTAGGTTGCATAGTT	cluster-hsa-mir-98(13)	sf-hsa-let-7a-1(12)	hsa-let-7d
hsa-let-7d*	CTATACGACCTGCTGCCTTTCT	cluster-hsa-mir-98(13)	sf-hsa-let-7a-1*(11)	hsa-let-7d*
hsa-let-7e	TGAGGTAGGAGGTTGTATAGTT	cluster-hsa-mir-99b(3)	sf-hsa-let-7a-1(12)	hsa-let-7e
hsa-let-7e*	CTATACGCCCTCCTAGCTTTCC	cluster-hsa-mir-99b(3)	sf-hsa-let-7a-1*(11)	hsa-let-7e*
hsa-let-7f-1	TGAGGTAGTAGATTGTATAGTT	cluster-hsa-mir-98(13)	sf-hsa-let-7a-1(12)	hsa-let-7f(2)
hsa-let-7f-1*	CTATACAATCTATTGCCTTCC	cluster-hsa-mir-98(13)	sf-hsa-let-7a-1*(11)	hsa-let-7f-1*
hsa-let-7f-2	TGAGGTAGTAGATTGTATAGTT	cluster-hsa-mir-98(13)	sf-hsa-let-7a-1(12)	hsa-let-7f(2)
hsa-let-7f-2*	CTATACAGTCTACTGTCTTTC	cluster-hsa-mir-98(13)	sf-hsa-let-7a-1*(11)	hsa-let-7f-2*
hsa-let-7g	TGAGGTAGTAGTTGTACAGTT	cluster-hsa-mir-135a-1(3)	sf-hsa-let-7a-1(12)	hsa-let-7g
hsa-let-7g*	CTGTACAGGCCACTGCCTTGC	cluster-hsa-mir-135a-1(3)	sf-hsa-let-7a-1*(11)	hsa-let-7g*
hsa-let-7i	TGAGGTAGTAGTTGTGCTGTT	cluster-hsa-let-7i(1)	sf-hsa-let-7a-1(12)	hsa-let-7i
hsa-let-7i*	CTGCCAAGTCTACTGCCTTGCT	cluster-hsa-let-7i(1)	sf-hsa-let-7i*(1)	hsa-let-7i*
hsa-miR-1-1	TGGAATGTAAGAAGTATGTAT	cluster-hsa-mir-1-1(4)	sf-hsa-miR-1-1(3)	hsa-miR-1(2)
hsa-miR-1-1*	ACATACTTCTTTATATGCCCAT	cluster-hsa-mir-1-1(4)	sf-hsa-miR-1-1*(3)	hsa-miR-1-1*
hsa-miR-1-2	TGGAATGTAAGAAGTATGTAT	cluster-hsa-mir-1-1(4)	sf-hsa-miR-1-1(3)	hsa-miR-1(2)
hsa-miR-1-2*	ACATACTTCTTTATGTACCCAT	cluster-hsa-mir-1-1(4)	sf-hsa-miR-1-1*(3)	hsa-miR-1-2*
hsa-miR-100	AACCCGTAGATCCGAACCTGTG	cluster-hsa-mir-98(13)	sf-hsa-miR-99a(3)	hsa-miR-100
hsa-miR-100*	CAAGCTTGATCTATAGGTATG	cluster-hsa-mir-98(13)	sf-hsa-miR-99a*(2)	hsa-miR-100*
hsa-miR-101-1	TACAGTACTGTGATAACTGAAG	cluster-hsa-mir-101-1(2)	sf-hsa-miR-101-1(2)	hsa-miR-101(2)
hsa-miR-101-1*	TCAGTTATCACAGTGCTGATGC	cluster-hsa-mir-101-1(2)	sf-hsa-miR-101-1*(2)	hsa-miR-101-1*
hsa-miR-101-2	TACAGTACTGTGATAACTGAAG	cluster-hsa-mir-101-1(2)	sf-hsa-miR-101-1(2)	hsa-miR-101(2)
hsa-miR-101-2*	TCGGTTATCATGGTACCGATGCT	cluster-hsa-mir-101-1(2)	sf-hsa-miR-101-1*(2)	hsa-miR-101-2*
hsa-miR-103-1	AGCAGCATTGTACAGGGCTATGA	cluster-hsa-mir-103-1(2)	sf-hsa-miR-103-1(3)	hsa-miR-103(2)
hsa-miR-103-1*	GGCTTCTTTACAGTGCTGCCCTTG	cluster-hsa-mir-103-1(2)	sf-hsa-miR-103-1*(3)	hsa-miR-103-1*
hsa-miR-103-2	AGCAGCATTGTACAGGGCTATGA	cluster-hsa-mir-103-1(2)	sf-hsa-miR-103-1(3)	hsa-miR-103(2)
hsa-miR-103-2*	AGCTTCTTTACAGTGCTGCCCTTG	cluster-hsa-mir-103-1(2)	sf-hsa-miR-103-1*(3)	hsa-miR-103-2*
hsa-miR-105-1	TCAAATGCTCAGACTCCTGTGGT	cluster-hsa-mir-105-1(3)	sf-hsa-miR-105-1(2)	hsa-miR-105(2)
hsa-miR-105-1*	CCACGGATGTTTGAGCATGTGC	cluster-hsa-mir-105-1(3)	sf-hsa-miR-105-1*(2)	hsa-miR-105*(2)
hsa-miR-105-2	TCAAATGCTCAGACTCCTGTGGT	cluster-hsa-mir-105-1(3)	sf-hsa-miR-105-1(2)	hsa-miR-105(2)
hsa-miR-105-2*	CCACGGATGTTTGAGCATGTGC	cluster-hsa-mir-105-1(3)	sf-hsa-miR-105-1*(2)	hsa-miR-105*(2)
hsa-miR-106a	AAAAGTGCTTACAGTGCAGGTAG	cluster-hsa-mir-17(12)	sf-hsa-miR-17(8)	hsa-miR-106a
hsa-miR-106a*	AGTCCAATGTAAAGCACTCTT	cluster-hsa-mir-17(12)	sf-hsa-miR-17*(3)	hsa-miR-106a*
hsa-miR-106b	TAAAGTGCTGACAGTGCAGAT	cluster-hsa-mir-25(3)	sf-hsa-miR-17(8)	hsa-miR-106b
hsa-miR-106b*	CCGCACTGTGGGTACTTGCT	cluster-hsa-mir-25(3)	sf-hsa-miR-106b*(1)	hsa-miR-106b*
hsa-miR-107	AGCAGCATTGTACAGGGCTAT	cluster-hsa-mir-107(1)	sf-hsa-miR-103-1(3)	hsa-miR-107
hsa-miR-107*	AGCTTCTTTACAGTGTTGCCCTTG	cluster-hsa-mir-107(1)	sf-hsa-miR-103-1*(3)	hsa-miR-107*
hsa-miR-10a	TACCCTGTAGATCCGAATTTGT	cluster-hsa-mir-10a(1)	sf-hsa-miR-10a(2)	hsa-miR-10a
hsa-miR-10a*	CAAATTCGTATCTAGGGGAAT	cluster-hsa-mir-10a(1)	sf-hsa-miR-10a*(2)	hsa-miR-10a*
hsa-miR-10b	TACCCTGTAGAACCGAATTTGT	cluster-hsa-mir-10b(1)	sf-hsa-miR-10a(2)	hsa-miR-10b
hsa-miR-10b*	CAGATTGATTTCTAGGGGAAT	cluster-hsa-mir-10b(1)	sf-hsa-miR-10a*(2)	hsa-miR-10b*
hsa-miR-1179	AAGCATTCTTTCATTGGTTGGT	cluster-hsa-mir-1179(1)	sf-hsa-miR-1179(1)	hsa-miR-1179
hsa-miR-1179*	AACCAATAAGAGGATGCCATTT	cluster-hsa-mir-1179(1)	sf-hsa-miR-1179*(1)	hsa-miR-1179*
hsa-miR-1180	TTTCCGGCTCGCGTGGGTGTGT	cluster-hsa-mir-1180(1)	sf-hsa-miR-1180(1)	hsa-miR-1180
hsa-miR-1180*	GGACCCACCCGCGCGGGAAT	cluster-hsa-mir-1180(1)	sf-hsa-miR-1180*(1)	hsa-miR-1180*
hsa-miR-1185-1-3p	ATATACAGGGGGAGACTCTTAT	cluster-hsa-mir-134(41)	sf-hsa-miR-381(3)	hsa-miR-1185-1-3p
hsa-miR-1185-1-5p	AGAGGATACCCCTTTGTATGTTT	cluster-hsa-mir-134(41)	sf-hsa-miR-1185-1-5p(2)	hsa-miR-1185-5p(2)
hsa-miR-1185-2-3p	ATATACAGGGGGAGACTCTCAT	cluster-hsa-mir-134(41)	sf-hsa-miR-381(3)	hsa-miR-1185-2-3p
hsa-miR-1185-2-5p	AGAGGATACCCCTTTGTATGTTT	cluster-hsa-mir-134(41)	sf-hsa-miR-1185-1-5p(2)	hsa-miR-1185-5p(2)
hsa-miR-1193-3p	TAGGTACCCGTTTGACTATCCAC	cluster-hsa-mir-134(41)	sf-hsa-miR-1193-3p(1)	hsa-miR-1193-3p
hsa-miR-1193-5p	GGGATGGTAGACCGGTGACGTGC	cluster-hsa-mir-134(41)	sf-hsa-miR-1193-5p(1)	hsa-miR-1193-5p
hsa-miR-1197	TAGGACACATGGTCTACTTCT	cluster-hsa-mir-134(41)	sf-hsa-miR-1197(1)	hsa-miR-1197
hsa-miR-1197*	CGGTTGACCATGGTGTGTACG	cluster-hsa-mir-134(41)	sf-hsa-miR-1197*(1)	hsa-miR-1197*
hsa-miR-122	TGGAGTGTGACAATGGTGTGTTGT	cluster-hsa-mir-122(1)	sf-hsa-miR-122(1)	hsa-miR-122
hsa-miR-122*	AACGCCATTATCACACTAAAT	cluster-hsa-mir-122(1)	sf-hsa-miR-122*(1)	hsa-miR-122*
hsa-miR-124-1	TAAGGCACGCGGTGAATGCCA	cluster-hsa-mir-124-1(3)	sf-hsa-miR-124-1(3)	hsa-miR-124(3)
hsa-miR-124-1*	CGTGTTCACAGCGGACCTTGA	cluster-hsa-mir-124-1(3)	sf-hsa-miR-124-1*(3)	hsa-miR-124*(3)

Supplementary Table S4: MiRNA definitions (from supplemental reference #3)

miR name	Predominant miR sequence	Genomic cluster	Sequence family	Merged mature miR name
hsa-miR-124-2	TAAGGCACGCGGTGAATGCCA	cluster-hsa-mir-124-1(3)	sf-hsa-miR-124-1(3)	hsa-miR-124(3)
hsa-miR-124-2*	CGTGTTCACAGCGGACCTTGA	cluster-hsa-mir-124-1(3)	sf-hsa-miR-124-1*(3)	hsa-miR-124*(3)
hsa-miR-124-3	TAAGGCACGCGGTGAATGCCA	cluster-hsa-mir-124-1(3)	sf-hsa-miR-124-1(3)	hsa-miR-124(3)
hsa-miR-124-3*	CGTGTTCACAGCGGACCTTGA	cluster-hsa-mir-124-1(3)	sf-hsa-miR-124-1*(3)	hsa-miR-124*(3)
hsa-miR-1245-3p	AAGTGATCTAAAGGCCTACAT	cluster-hsa-mir-1245(1)	sf-hsa-miR-1245-3p(1)	hsa-miR-1245-3p
hsa-miR-1245-5p	GTATAGGCCTTTAGATCATCTGA	cluster-hsa-mir-1245(1)	sf-hsa-miR-1245-5p(1)	hsa-miR-1245-5p
hsa-miR-1247	ACCCGTCGCGTTCGTCGCCCGGA	cluster-hsa-mir-1247(1)	sf-hsa-miR-1247(1)	hsa-miR-1247
hsa-miR-1247*	CGGGAACGTCGAGACTGGAGC	cluster-hsa-mir-1247(1)	sf-hsa-miR-1247*(1)	hsa-miR-1247*
hsa-miR-1249	ACGCCCTTCCCCCCTTCTTCA	cluster-hsa-mir-1249(1)	sf-hsa-miR-1249(1)	hsa-miR-1249
hsa-miR-1249*	AGGAGGGAGGAGATGGGCCAAGTT	cluster-hsa-mir-1249(1)	sf-hsa-miR-1249*(1)	hsa-miR-1249*
hsa-miR-1250	ACGGTGCTGGATGTGCCTTT	cluster-hsa-mir-1250(1)	sf-hsa-miR-1250(1)	hsa-miR-1250
hsa-miR-1250*	AGGCCACATTTTCCAGCCCCATT	cluster-hsa-mir-1250(1)	sf-hsa-miR-1250*(1)	hsa-miR-1250*
hsa-miR-1251	ACTCTAGCTGCCAAAGGCGCT	cluster-hsa-mir-1251(1)	sf-hsa-miR-1251(1)	hsa-miR-1251
hsa-miR-1251*	CGCTTTGCTCAGCCAGTGTAG	cluster-hsa-mir-1251(1)	sf-hsa-miR-1251*(1)	hsa-miR-1251*
hsa-miR-1252	AGAAGGAAATTGAATTCATTT	cluster-hsa-mir-1252(1)	sf-hsa-miR-1252(1)	hsa-miR-1252
hsa-miR-1252*	AATGAGCTTAATTTCCCTTTTT	cluster-hsa-mir-1252(1)	sf-hsa-miR-1252*(1)	hsa-miR-1252*
hsa-miR-1255a-3p	CTATCTTCTTTGCTCATCCTTG	cluster-hsa-mir-1255a(1)	sf-hsa-miR-1255a-3p(1)	hsa-miR-1255a-3p
hsa-miR-1255a-5p	AGGATGAGCAAAGAAAGTAGATT	cluster-hsa-mir-1255a(1)	sf-hsa-miR-1255a-5p(2)	hsa-miR-1255a-5p
hsa-miR-1255b	CGGATGAGCAAAGAAAGTGGTT	cluster-hsa-mir-1255b(1)	sf-hsa-miR-1255a-5p(2)	hsa-miR-1255b
hsa-miR-1255b*	CCACTTTCTTTGCTCATCCAT	cluster-hsa-mir-1255b(1)	sf-hsa-miR-1255b*(1)	hsa-miR-1255b*
hsa-miR-1256-3p	CTAAAGAGAAGTCAATGCATGA	cluster-hsa-mir-1256(1)	sf-hsa-miR-1256-3p(1)	hsa-miR-1256-3p
hsa-miR-1256-5p	AGGATTGCTACTTCTCACTAGCT	cluster-hsa-mir-1256(1)	sf-hsa-miR-1256-5p(1)	hsa-miR-1256-5p
hsa-miR-1258-3p	AGTTAGGATTAGGTCTGTGGAA	cluster-hsa-mir-1258(1)	sf-hsa-miR-1258-3p(1)	hsa-miR-1258-3p
hsa-miR-1258-5p	TGGCTTCCACGACCTAATCCT	cluster-hsa-mir-1258(1)	sf-hsa-miR-1258-5p(1)	hsa-miR-1258-5p
hsa-miR-125a	TCCCTGAGACCCTTTAACCTGT	cluster-hsa-mir-99b(3)	sf-hsa-miR-125a(3)	hsa-miR-125a
hsa-miR-125a*	ACAGGTGAGGTCTTGGGAGC	cluster-hsa-mir-99b(3)	sf-hsa-miR-125a*(1)	hsa-miR-125a*
hsa-miR-125b-1	TCCCTGAGACCCTAACTTGTA	cluster-hsa-mir-98(13)	sf-hsa-miR-125a(3)	hsa-miR-125b(2)
hsa-miR-125b-1*	ACGGGTTAGGCTCTTGGGAGCT	cluster-hsa-mir-98(13)	sf-hsa-miR-125b-1*(1)	hsa-miR-125b-1*
hsa-miR-125b-2	TCCCTGAGACCCTAACTTGTA	cluster-hsa-mir-98(13)	sf-hsa-miR-125a(3)	hsa-miR-125b(2)
hsa-miR-125b-2*	ACAAGTCAGGCTCTTGGACCT	cluster-hsa-mir-98(13)	sf-hsa-miR-125b-2*(1)	hsa-miR-125b-2*
hsa-miR-126	TCGTACCGTGAGTAATAATGCG	cluster-hsa-mir-126(1)	sf-hsa-miR-126(1)	hsa-miR-126
hsa-miR-126*	CATTATTACTTTTGGTACGCG	cluster-hsa-mir-126(1)	sf-hsa-miR-126*(1)	hsa-miR-126*
hsa-miR-1263-3p	TCAGTATGCCATGTTGCCATAT	cluster-hsa-mir-1263(1)	sf-hsa-miR-1263-3p(1)	hsa-miR-1263-3p
hsa-miR-1263-5p	ATGGTACCCTGGCATACTAGT	cluster-hsa-mir-1263(1)	sf-hsa-miR-1263-5p(1)	hsa-miR-1263-5p
hsa-miR-1264	CAAGTCTTATTTGAGCACCTGT	cluster-hsa-mir-1264(2)	sf-hsa-miR-1264(1)	hsa-miR-1264
hsa-miR-1264*	AGGTCCTCAATAAGTATTTGTT	cluster-hsa-mir-1264(2)	sf-hsa-miR-1264*(1)	hsa-miR-1264*
hsa-miR-1266	CCTCAGGGCTGTAGAACAGGGCT	cluster-hsa-mir-1266(1)	sf-hsa-miR-1266(1)	hsa-miR-1266
hsa-miR-1266*	CCCTGTTCTATGCCCCTTGGAGG	cluster-hsa-mir-1266(1)	sf-hsa-miR-1266*(1)	hsa-miR-1266*
hsa-miR-1269	CTGGACTGAGCCGTGCTACTGG	cluster-hsa-mir-1269(1)	sf-hsa-miR-1269(1)	hsa-miR-1269
hsa-miR-1269*	AGTTGGCATGGCTCAGTCCAAGT	cluster-hsa-mir-1269(1)	sf-hsa-miR-1269*(1)	hsa-miR-1269*
hsa-miR-127-3p	TCGGATCCGCTCTGAGCTTGGCT	cluster-hsa-mir-127(8)	sf-hsa-miR-127-3p(1)	hsa-miR-127-3p
hsa-miR-127-5p	CTGAAGCTCAGGCTCTGGATCT	cluster-hsa-mir-127(8)	sf-hsa-miR-127-5p(1)	hsa-miR-127-5p
hsa-miR-1270-1	CTGGAGATATGGAAGAGCTGTGT	cluster-hsa-mir-1270-1(1)	sf-hsa-miR-1270-1(2)	hsa-miR-1270(2)
hsa-miR-1270-1*	AGGCTTTTCTTTATCTTCTATG	cluster-hsa-mir-1270-1(1)	sf-hsa-miR-1270-1*(2)	hsa-miR-1270*(2)
hsa-miR-1270-2	CTGGAGATATGGAAGAGCTGTGT	cluster-hsa-mir-1270-2(1)	sf-hsa-miR-1270-1(2)	hsa-miR-1270(2)
hsa-miR-1270-2*	AGGCTTTTCTTTATCTTCTATG	cluster-hsa-mir-1270-2(1)	sf-hsa-miR-1270-1*(2)	hsa-miR-1270*(2)
hsa-miR-1271	CTTGCCACCTAGCAAGCACTCA	cluster-hsa-mir-1271(1)	sf-hsa-miR-1271(1)	hsa-miR-1271
hsa-miR-1271*	AGTGCCTGCTATGTGCCAGGC	cluster-hsa-mir-1271(1)	sf-hsa-miR-1271*(1)	hsa-miR-1271*
hsa-miR-1277-3p	TACGTAGATATATATGTATTTT	cluster-hsa-mir-1277(1)	sf-hsa-miR-1277-3p(1)	hsa-miR-1277-3p
hsa-miR-1277-5p	TATATATATATATGTACGTAT	cluster-hsa-mir-1277(1)	sf-hsa-miR-1277-5p(1)	hsa-miR-1277-5p
hsa-miR-1278	TAGACTGTGCATATCATCTAT	cluster-hsa-mir-1278(1)	sf-hsa-miR-1278(1)	hsa-miR-1278
hsa-miR-1278*	AGATGATATGCATAGTACTCC	cluster-hsa-mir-1278(1)	sf-hsa-miR-1278*(1)	hsa-miR-1278*
hsa-miR-128-1	TCACAGTGAACCGGTCTCTTT	cluster-hsa-mir-128-1(2)	sf-hsa-miR-128-1(2)	hsa-miR-128(2)
hsa-miR-128-1*	CGGGGCGCTAGCACTGTCTGA	cluster-hsa-mir-128-1(2)	sf-hsa-miR-128-1*(2)	hsa-miR-128-1*
hsa-miR-128-2	TCACAGTGAACCGGTCTCTTT	cluster-hsa-mir-128-1(2)	sf-hsa-miR-128-1(2)	hsa-miR-128(2)
hsa-miR-128-2*	GGGGGCCGATACACTGTACGAGA	cluster-hsa-mir-128-1(2)	sf-hsa-miR-128-1*(2)	hsa-miR-128-2*
hsa-miR-1283-1-3p	AAAGCGCTTCCCTTTTGAGGGT	cluster-hsa-mir-498(46)	sf-hsa-miR-1283-1-3p(1)	hsa-miR-1283-1-3p
hsa-miR-1283-1-5p	TCTACAAAGGAAAGCGCTTTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-1283-1-5p(2)	hsa-miR-1283-5p(2)
hsa-miR-1283-2-3p	GAAATCGCTTCCCTTTGGAGTG	cluster-hsa-mir-498(46)	sf-hsa-miR-1283-2-3p(1)	hsa-miR-1283-2-3p
hsa-miR-1283-2-5p	TCTACAAAGGAAAGCGCTTTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-1283-1-5p(2)	hsa-miR-1283-5p(2)
hsa-miR-1284-3p	GAAAGCCCATGTTTGTATTGGA	cluster-hsa-mir-1284(1)	sf-hsa-miR-1284-3p(1)	hsa-miR-1284-3p
hsa-miR-1284-5p	TCTATACAGACCCTGGCTTTTC	cluster-hsa-mir-1284(1)	sf-hsa-miR-1284-5p(1)	hsa-miR-1284-5p
hsa-miR-1286	TGCAGGACCAAGATGAGCCCT	cluster-hsa-mir-1286(1)	sf-hsa-miR-1286(1)	hsa-miR-1286
hsa-miR-1286*	GACTCAGCTTGCTCTGGCTGC	cluster-hsa-mir-1286(1)	sf-hsa-miR-1286*(1)	hsa-miR-1286*
hsa-miR-1287	TGCTGGATCAGTGGTTCGAGT	cluster-hsa-mir-1287(1)	sf-hsa-miR-1287(1)	hsa-miR-1287
hsa-miR-1287*	CTCTAGCCACAGATGCAGTGAT	cluster-hsa-mir-1287(1)	sf-hsa-miR-1287*(1)	hsa-miR-1287*

Supplementary Table S4: MiRNA definitions (from supplemental reference #3)

miR name	Predominant miR sequence	Genomic cluster	Sequence family	Merged mature miR name
hsa-miR-1289-3p	TGGAGTCCAGGAATCTGCATT	cluster-hsa-mir-1289(1)	sf-hsa-miR-1289-3p(1)	hsa-miR-1289-3p
hsa-miR-1289-5p	AATGCAGACTCTTGGTTTCC	cluster-hsa-mir-1289(1)	sf-hsa-miR-1289-5p(1)	hsa-miR-1289-5p
hsa-miR-129-1-3p	AAGCCCTTACCCCAAAAAGTAT	cluster-hsa-mir-129-1(2)	sf-hsa-miR-129-1-3p(2)	hsa-miR-129-1-3p
hsa-miR-129-1-5p	CTTTTTGCGGTCTGGGCTTGC	cluster-hsa-mir-129-1(2)	sf-hsa-miR-129-1-5p(2)	hsa-miR-129-5p(2)
hsa-miR-129-2-3p	AAGCCCTTACCCCAAAAAGCAT	cluster-hsa-mir-129-1(2)	sf-hsa-miR-129-1-3p(2)	hsa-miR-129-2-3p
hsa-miR-129-2-5p	CTTTTTGCGGTCTGGGCTTGC	cluster-hsa-mir-129-1(2)	sf-hsa-miR-129-1-5p(2)	hsa-miR-129-5p(2)
hsa-miR-1293-3p	CAAATCTCCGGACCACTTAGTCT	cluster-hsa-mir-1293(1)	sf-hsa-miR-1293-3p(1)	hsa-miR-1293-3p
hsa-miR-1293-5p	TCTGGGTGGTCTGGAGATTGT	cluster-hsa-mir-1293(1)	sf-hsa-miR-1293-5p(1)	hsa-miR-1293-5p
hsa-miR-1294-3p	ACAACAGTGCCAACCTCACAGG	cluster-hsa-mir-1294(1)	sf-hsa-miR-1294-3p(1)	hsa-miR-1294-3p
hsa-miR-1294-5p	AGTGAGGTTGGCATTGTTGTCT	cluster-hsa-mir-1294(1)	sf-hsa-miR-1294-5p(1)	hsa-miR-1294-5p
hsa-miR-1295	TTAGGCCGAGATCTGGGTGA	cluster-hsa-mir-1295(1)	sf-hsa-miR-1295(1)	hsa-miR-1295
hsa-miR-1295*	TGCCAGATCCGTGGCCTATT	cluster-hsa-mir-1295(1)	sf-hsa-miR-1295*(1)	hsa-miR-1295*
hsa-miR-1296	TTAGGGCCCTGGCTCCATCTCC	cluster-hsa-mir-1296(1)	sf-hsa-miR-1296(1)	hsa-miR-1296
hsa-miR-1296*	AGTGGGGCTTCGACCCCTAACCC	cluster-hsa-mir-1296(1)	sf-hsa-miR-1296*(1)	hsa-miR-1296*
hsa-miR-1298-3p	CATCTGGGCAACTGACTGAACCT	cluster-hsa-mir-1298(1)	sf-hsa-miR-1298-3p(1)	hsa-miR-1298-3p
hsa-miR-1298-5p	TTCAATTCGGCTGTCCAGATG	cluster-hsa-mir-1298(1)	sf-hsa-miR-1298-5p(1)	hsa-miR-1298-5p
hsa-miR-1301	TTGCAGCTGCCTGGGAGTGACTTC	cluster-hsa-mir-1301(1)	sf-hsa-miR-1301(1)	hsa-miR-1301
hsa-miR-1301*	GGTCGCTCTAGGCACCGCAGC	cluster-hsa-mir-1301(1)	sf-hsa-miR-1301*(1)	hsa-miR-1301*
hsa-miR-1303-3p	TTTTAGAGACGGGGTCTTGCTCT	cluster-hsa-mir-1303(1)	sf-hsa-miR-1303-3p(1)	hsa-miR-1303-3p
hsa-miR-1303-5p	AGCGAGAGCTCAACTCTACAATT	cluster-hsa-mir-1303(1)	sf-hsa-miR-1303-5p(1)	hsa-miR-1303-5p
hsa-miR-1304-3p	TCTCACTGTAGCCTCGAACC	cluster-hsa-mir-1304(1)	sf-hsa-miR-1304-3p(1)	hsa-miR-1304-3p
hsa-miR-1304-5p	CGGTTTGAGGCTACAGTGAGAT	cluster-hsa-mir-1304(1)	sf-hsa-miR-1304-5p(1)	hsa-miR-1304-5p
hsa-miR-1305	TTTTCAACTCTAATGGGAGAGA	cluster-hsa-mir-1305(1)	sf-hsa-miR-1305(1)	hsa-miR-1305
hsa-miR-1305*	TCTACCATTAGTTTTGAATGTT	cluster-hsa-mir-1305(1)	sf-hsa-miR-1305*(1)	hsa-miR-1305*
hsa-miR-1306-3p	GACGTTGGCTCTGGTGGTGAT	cluster-hsa-mir-1306(1)	sf-hsa-miR-1306-3p(1)	hsa-miR-1306-3p
hsa-miR-1306-5p	CCACCTGGCTTGCACCAACGTCCA	cluster-hsa-mir-1306(1)	sf-hsa-miR-1306-5p(1)	hsa-miR-1306-5p
hsa-miR-1307	TCGACCGGACCTCGACCGGCT	cluster-hsa-mir-1307(1)	sf-hsa-miR-1307(1)	hsa-miR-1307
hsa-miR-1307*	ACTCGGCTGGCGTGGTCTGCTGG	cluster-hsa-mir-1307(1)	sf-hsa-miR-1307*(1)	hsa-miR-1307*
hsa-miR-130a	CAGTGCAATGTTAAAAGGGCAT	cluster-hsa-mir-130a(1)	sf-hsa-miR-130a(2)	hsa-miR-130a
hsa-miR-130a*	GCTCTTTTACATTGTGCTACT	cluster-hsa-mir-130a(1)	sf-hsa-miR-130a*(1)	hsa-miR-130a*
hsa-miR-130b-3p	CAGTGCAATGATGAAAGGGCAT	cluster-hsa-mir-130b(2)	sf-hsa-miR-130a(2)	hsa-miR-130b-3p
hsa-miR-130b-5p	ACTCTTTCCCTGTTGCACTACT	cluster-hsa-mir-130b(2)	sf-hsa-miR-130b-5p(1)	hsa-miR-130b-5p
hsa-miR-132-3p	TAACAGTCTACAGCCATGGTCG	cluster-hsa-mir-132(2)	sf-hsa-miR-132-3p(1)	hsa-miR-132-3p
hsa-miR-132-5p	ACCGTGCTTCTGATTGTTACT	cluster-hsa-mir-132(2)	sf-hsa-miR-132-5p(1)	hsa-miR-132-5p
hsa-miR-1323	TCAAACTGAGGGGCATTTTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-1323(1)	hsa-miR-1323
hsa-miR-1323*	AAAGTGCACCCAGTTTTGGGGA	cluster-hsa-mir-498(46)	sf-hsa-miR-1323*(1)	hsa-miR-1323*
hsa-miR-133a-1	TTTGGTCCCCTTCAACCAGCTGT	cluster-hsa-mir-1-1(4)	sf-hsa-miR-133a-1(3)	hsa-miR-133a(2)
hsa-miR-133a-1*	AGCTGGTAAAATGGAACCAAT	cluster-hsa-mir-1-1(4)	sf-hsa-miR-133a-1*(2)	hsa-miR-133a*(2)
hsa-miR-133a-2	TTTGGTCCCCTTCAACCAGCTGT	cluster-hsa-mir-1-1(4)	sf-hsa-miR-133a-1(3)	hsa-miR-133a(2)
hsa-miR-133a-2*	AGCTGGTAAAATGGAACCAAT	cluster-hsa-mir-1-1(4)	sf-hsa-miR-133a-1*(2)	hsa-miR-133a*(2)
hsa-miR-133b	TTTGGTCCCCTTCAACCAGCT	cluster-hsa-mir-133b(2)	sf-hsa-miR-133a-1(3)	hsa-miR-133b
hsa-miR-133b*	GCTGGTCAACCGGAACCAAGTC	cluster-hsa-mir-133b(2)	sf-hsa-miR-133b*(1)	hsa-miR-133b*
hsa-miR-134	TGTGACTGGTTGACCAGAGGGG	cluster-hsa-mir-134(41)	sf-hsa-miR-134(1)	hsa-miR-134
hsa-miR-134*	CTGTGGGCCACCTAGTCACCA	cluster-hsa-mir-134(41)	sf-hsa-miR-134*(1)	hsa-miR-134*
hsa-miR-135a-1	TATGGCTTTTTATTCTATGTGA	cluster-hsa-mir-135a-1(3)	sf-hsa-miR-135a-1(3)	hsa-miR-135a(2)
hsa-miR-135a-1*	ATATAGGATTGGAGCCGTGGC	cluster-hsa-mir-135a-1(3)	sf-hsa-miR-135a-1*(1)	hsa-miR-135a-1*
hsa-miR-135a-2	TATGGCTTTTTATTCTATGTGA	cluster-hsa-mir-135a-1(3)	sf-hsa-miR-135a-1(3)	hsa-miR-135a(2)
hsa-miR-135a-2*	TGTAGGGATGGAAGCCATGAAA	cluster-hsa-mir-135a-1(3)	sf-hsa-miR-135a-2*(2)	hsa-miR-135a-2*
hsa-miR-135b	TATGGCTTTTCATTCTATGTGA	cluster-hsa-mir-135b(1)	sf-hsa-miR-135a-1(3)	hsa-miR-135b
hsa-miR-135b*	ATGTAGGGCTAAAAGCCATGGG	cluster-hsa-mir-135b(1)	sf-hsa-miR-135a-2*(2)	hsa-miR-135b*
hsa-miR-136-3p	ATCATCGTCTCAAATGAGTCT	cluster-hsa-mir-127(8)	sf-hsa-miR-136-3p(1)	hsa-miR-136-3p
hsa-miR-136-5p	ACTCCATTGTTTTGATGATGGA	cluster-hsa-mir-127(8)	sf-hsa-miR-136-5p(1)	hsa-miR-136-5p
hsa-miR-137	TTATTGCTTAAGAATACGCGTAG	cluster-hsa-mir-137(1)	sf-hsa-miR-137(1)	hsa-miR-137
hsa-miR-137*	ACGGGTATTCTTGGGTGGATAAT	cluster-hsa-mir-137(1)	sf-hsa-miR-137*(1)	hsa-miR-137*
hsa-miR-138-1	AGCTGGTGTGTGTAATCAGGCCG	cluster-hsa-mir-138-1(2)	sf-hsa-miR-138-1(2)	hsa-miR-138(2)
hsa-miR-138-1*	GCTACTTCACAACACCAGGGC	cluster-hsa-mir-138-1(2)	sf-hsa-miR-138-1*(2)	hsa-miR-138-1*
hsa-miR-138-2	AGCTGGTGTGTGTAATCAGGCCG	cluster-hsa-mir-138-1(2)	sf-hsa-miR-138-1(2)	hsa-miR-138(2)
hsa-miR-138-2*	GCTATTTCACGACACCCAGGT	cluster-hsa-mir-138-1(2)	sf-hsa-miR-138-1*(2)	hsa-miR-138-2*
hsa-miR-139	TCTACAGTGCACGTGTCTCCAGT	cluster-hsa-mir-139(1)	sf-hsa-miR-139(1)	hsa-miR-139
hsa-miR-139*	TGGAGACGCGGCCCTGTTGGAGT	cluster-hsa-mir-139(1)	sf-hsa-miR-139*(1)	hsa-miR-139*
hsa-miR-140-3p	ACCACAGGGTAGAACACCGGAC	cluster-hsa-mir-140(1)	sf-hsa-miR-140-3p(1)	hsa-miR-140-3p
hsa-miR-140-5p	CAGTGGTTTTACCCTATGGTAG	cluster-hsa-mir-140(1)	sf-hsa-miR-140-5p(1)	hsa-miR-140-5p
hsa-miR-141	TAACACTGTCTGGTAAAGATGGC	cluster-hsa-mir-141(2)	sf-hsa-miR-141(5)	hsa-miR-141
hsa-miR-141*	CATCTTCCAGTACAGTGTGGA	cluster-hsa-mir-141(2)	sf-hsa-miR-141*(1)	hsa-miR-141*
hsa-miR-142-3p	TGTAGTGTTCCTACTTTATGGA	cluster-hsa-mir-142(1)	sf-hsa-miR-142-3p(1)	hsa-miR-142-3p
hsa-miR-142-5p	CATAAAGTAGAAAGCACTACT	cluster-hsa-mir-142(1)	sf-hsa-miR-142-5p(1)	hsa-miR-142-5p

Supplementary Table S4: MiRNA definitions (from supplemental reference #3)

miR name	Predominant miR sequence	Genomic cluster	Sequence family	Merged mature miR name
hsa-miR-143	TGAGATGAAGCACTGTAGCTC	cluster-hsa-mir-143(2)	sf-hsa-miR-143(1)	hsa-miR-143
hsa-miR-143*	GGTGCAGTGCTGCATCTCTGG	cluster-hsa-mir-143(2)	sf-hsa-miR-143*(1)	hsa-miR-143*
hsa-miR-144	TACAGTATAGATGATGTACT	cluster-hsa-mir-144(2)	sf-hsa-miR-144(1)	hsa-miR-144
hsa-miR-144*	GGATATCATCATATACTGTAAGT	cluster-hsa-mir-144(2)	sf-hsa-miR-144*(1)	hsa-miR-144*
hsa-miR-145	GTCCAGTTTTCCAGGAATCCCT	cluster-hsa-mir-143(2)	sf-hsa-miR-145(1)	hsa-miR-145
hsa-miR-145*	ATTCCTGGAATACTGTTCTT	cluster-hsa-mir-143(2)	sf-hsa-miR-145a*(1)	hsa-miR-145*
hsa-miR-1468	CTCCGTTTGCCTGTTTCGCTGA	cluster-hsa-mir-1468(1)	sf-hsa-miR-1468(1)	hsa-miR-1468
hsa-miR-1468*	AGCAAAATAAGCAAAATGGA	cluster-hsa-mir-1468(1)	sf-hsa-miR-1468*(1)	hsa-miR-1468*
hsa-miR-146a	TGAGAACTGAATTCCATGGGT	cluster-hsa-mir-146a(1)	sf-hsa-miR-146a(2)	hsa-miR-146a
hsa-miR-146a*	ACCTCTGAAATTCAGTTCTTCA	cluster-hsa-mir-146a(1)	sf-hsa-miR-146a*(1)	hsa-miR-146a*
hsa-miR-146b	TGAGAACTGAATTCCATAGGCT	cluster-hsa-mir-146b(1)	sf-hsa-miR-146a(2)	hsa-miR-146b
hsa-miR-146b*	GCCCTGTGGACTCAGTTCTGGT	cluster-hsa-mir-146b(1)	sf-hsa-miR-146b*(1)	hsa-miR-146b*
hsa-miR-147	TGTGCGGAAATGCTTCTGCT	cluster-hsa-mir-147(1)	sf-hsa-miR-147(1)	hsa-miR-147
hsa-miR-147*	GTGAAACATTCTGCACAACT	cluster-hsa-mir-147(1)	sf-hsa-miR-147*(1)	hsa-miR-147*
hsa-miR-148a	TCAGTGCACACAGAACCTTGT	cluster-hsa-mir-148a(1)	sf-hsa-miR-148a(3)	hsa-miR-148a
hsa-miR-148a*	AAAGTTCTGAGACACTCCGACT	cluster-hsa-mir-148a(1)	sf-hsa-miR-148a*(1)	hsa-miR-148a*
hsa-miR-148b	TCAGTGCATCACAGAACCTTGT	cluster-hsa-mir-148b(1)	sf-hsa-miR-148a(3)	hsa-miR-148b
hsa-miR-148b*	GAAGTTCTGTTATACACTCAGGC	cluster-hsa-mir-148b(1)	sf-hsa-miR-148b*(1)	hsa-miR-148b*
hsa-miR-149	TCTGGCTCCGTGTCTTCACTCCC	cluster-hsa-mir-149(1)	sf-hsa-miR-149(1)	hsa-miR-149
hsa-miR-149*	GAGGGAGGGACGGGGGCTGTGC	cluster-hsa-mir-149(1)	sf-hsa-miR-149*(1)	hsa-miR-149*
hsa-miR-150	TCTCCCAACCCTTGTAACAGTG	cluster-hsa-mir-150(1)	sf-hsa-miR-150(1)	hsa-miR-150
hsa-miR-150*	CTGGTACAGCCTGGGGGACA	cluster-hsa-mir-150(1)	sf-hsa-miR-150*(1)	hsa-miR-150*
hsa-miR-151-3p	CTAGACTGAAGCTCCTTGAGG	cluster-hsa-mir-151(1)	sf-hsa-miR-151-3p(1)	hsa-miR-151-3p
hsa-miR-151-5p	TCGAGGAGCTCACAGTCTAGT	cluster-hsa-mir-151(1)	sf-hsa-miR-151-5p(1)	hsa-miR-151-5p
hsa-miR-152	TCAGTGCATGACAGAACCTGG	cluster-hsa-mir-152(1)	sf-hsa-miR-148a(3)	hsa-miR-152
hsa-miR-152*	AGGTTCTGTGATACACTCCGACT	cluster-hsa-mir-152(1)	sf-hsa-miR-152a*(1)	hsa-miR-152*
hsa-miR-153-1	TTGCATAGTCACAAAAGTGATC	cluster-hsa-mir-153-1(2)	sf-hsa-miR-153-1(2)	hsa-miR-153(2)
hsa-miR-153-1*	GTCATTTTTGTGATCTGCAGCT	cluster-hsa-mir-153-1(2)	sf-hsa-miR-153-1*(2)	hsa-miR-153-1*
hsa-miR-153-2	TTGCATAGTCACAAAAGTGATC	cluster-hsa-mir-153-1(2)	sf-hsa-miR-153-1(2)	hsa-miR-153(2)
hsa-miR-153-2*	GTCATTTTTGTGATCTGCAGCT	cluster-hsa-mir-153-1(2)	sf-hsa-miR-153-1*(2)	hsa-miR-153-2*
hsa-miR-1537	AAAACCGTCTAGTTACAGTTGT	cluster-hsa-mir-1537(1)	sf-hsa-miR-1537(1)	hsa-miR-1537
hsa-miR-1537*	AGCTGTAATTAGTCAGTTTTCT	cluster-hsa-mir-1537(1)	sf-hsa-miR-1537*(1)	hsa-miR-1537*
hsa-miR-154-3p	AATCATACACGGTTGACCTATT	cluster-hsa-mir-134(41)	sf-hsa-miR-154-3p(1)	hsa-miR-154-3p
hsa-miR-154-5p	AGGTTCTGGGTGATGCTCGAGT	cluster-hsa-mir-134(41)	sf-hsa-miR-154-5p(7)	hsa-miR-154-5p
hsa-miR-155	TTAATGCTAATCGTGATAGGGGT	cluster-hsa-mir-155(1)	sf-hsa-miR-155(1)	hsa-miR-155
hsa-miR-155*	CTCCTACATATTAGCATTAAACA	cluster-hsa-mir-155(1)	sf-hsa-miR-155*(1)	hsa-miR-155*
hsa-miR-15a	TAGCAGCACATAATGGTTTGT	cluster-hsa-mir-15a(4)	sf-hsa-miR-15a(2)	hsa-miR-15a
hsa-miR-15a*	CAGGCCATATTGTGCTGCCTCA	cluster-hsa-mir-15a(4)	sf-hsa-miR-15a*(1)	hsa-miR-15a*
hsa-miR-15b	TAGCAGCACATCATGTTTACA	cluster-hsa-mir-15a(4)	sf-hsa-miR-15a(2)	hsa-miR-15b
hsa-miR-15b*	CGAATCATTATTGCTGCTCT	cluster-hsa-mir-15a(4)	sf-hsa-miR-15b*(1)	hsa-miR-15b*
hsa-miR-16-1	TAGCAGCACGTAAATATTGGCG	cluster-hsa-mir-15a(4)	sf-hsa-miR-16-1(3)	hsa-miR-16(2)
hsa-miR-16-1*	CCAGTATTAAGTGTGCTGCTGAA	cluster-hsa-mir-15a(4)	sf-hsa-miR-16-1*(3)	hsa-miR-16-1*
hsa-miR-16-2	TAGCAGCACGTAAATATTGGCG	cluster-hsa-mir-15a(4)	sf-hsa-miR-16-1(3)	hsa-miR-16(2)
hsa-miR-16-2*	ACCAATATTACTGTGCTGCTTT	cluster-hsa-mir-15a(4)	sf-hsa-miR-16-1*(3)	hsa-miR-16-2*
hsa-miR-17	CAAAGTGCTTACAGTGCAGGTAG	cluster-hsa-mir-17(12)	sf-hsa-miR-17(8)	hsa-miR-17
hsa-miR-17*	ACTGCAGTGAAGCACTGTAGC	cluster-hsa-mir-17(12)	sf-hsa-miR-17*(3)	hsa-miR-17*
hsa-miR-181a-1	AACATTCAACGCTGTCGGTGAGT	cluster-hsa-mir-181a-1(4)	sf-hsa-miR-181a-1(6)	hsa-miR-181a(2)
hsa-miR-181a-1*	ACCATCGACCGTTGATTGTACC	cluster-hsa-mir-181a-1(4)	sf-hsa-miR-181a-1*(2)	hsa-miR-181a-1*
hsa-miR-181a-2	AACATTCAACGCTGTCGGTGAGT	cluster-hsa-mir-181a-1(4)	sf-hsa-miR-181a-1(6)	hsa-miR-181a(2)
hsa-miR-181a-2*	ACCATGACCGTTGACTGTACC	cluster-hsa-mir-181a-1(4)	sf-hsa-miR-181a-2*(1)	hsa-miR-181a-2*
hsa-miR-181b-1	AACATTCAATTGCTGTGCGTGGGT	cluster-hsa-mir-181a-1(4)	sf-hsa-miR-181a-1(6)	hsa-miR-181b(2)
hsa-miR-181b-1*	CTCACTGAACAATGAATGCA	cluster-hsa-mir-181a-1(4)	sf-hsa-miR-181b-1*(2)	hsa-miR-181b-1*
hsa-miR-181b-2	AACATTCATTGCTGTGCGTGGGT	cluster-hsa-mir-181a-1(4)	sf-hsa-miR-181a-1(6)	hsa-miR-181b(2)
hsa-miR-181b-2*	CTCACTGATCAATGAATGCAAA	cluster-hsa-mir-181a-1(4)	sf-hsa-miR-181b-1*(2)	hsa-miR-181b-2*
hsa-miR-181c	AACATTCAACCTGTGCGTGAGTTT	cluster-hsa-mir-181c(2)	sf-hsa-miR-181a-1(6)	hsa-miR-181c
hsa-miR-181c*	ACCATCGACCGTTGAGTGGACC	cluster-hsa-mir-181c(2)	sf-hsa-miR-181a-1*(2)	hsa-miR-181c*
hsa-miR-181d	AACATTCATTGTTGTGCGTGGGT	cluster-hsa-mir-181c(2)	sf-hsa-miR-181a-1(6)	hsa-miR-181d
hsa-miR-181d*	CCCACCGGGGATGAATGTCA	cluster-hsa-mir-181c(2)	sf-hsa-miR-181d*(1)	hsa-miR-181d*
hsa-miR-182	TTTGGCAATGGTAGAAGTACACT	cluster-hsa-mir-96(3)	sf-hsa-miR-182(1)	hsa-miR-182
hsa-miR-182*	GGTGGTTCTAGACTTGCCAACT	cluster-hsa-mir-96(3)	sf-hsa-miR-182*(1)	hsa-miR-182*
hsa-miR-183	TATGGCACTGGTAGAATCACT	cluster-hsa-mir-96(3)	sf-hsa-miR-183(1)	hsa-miR-183
hsa-miR-183*	TGAATTACCGAAGGGCCATAA	cluster-hsa-mir-96(3)	sf-hsa-miR-183*(1)	hsa-miR-183*
hsa-miR-184	TGGACGGAGAACTGATAAGGGT	cluster-hsa-mir-184(1)	sf-hsa-miR-184(1)	hsa-miR-184
hsa-miR-184*	CCTTATCACTTTTCCAGCCCAGC	cluster-hsa-mir-184(1)	sf-hsa-miR-184*(1)	hsa-miR-184*
hsa-miR-185	TGGAGAGAAAGGCAGTTCCTGA	cluster-hsa-mir-185(1)	sf-hsa-miR-185(1)	hsa-miR-185
hsa-miR-185*	AGGGGCTGGCTTCTCTGGT	cluster-hsa-mir-185(1)	sf-hsa-miR-185*(1)	hsa-miR-185*

Supplementary Table S4: MiRNA definitions (from supplemental reference #3)

miR name	Predominant miR sequence	Genomic cluster	Sequence family	Merged mature miR name
hsa-miR-186	CAAAGAATTCTCTTTTGGGCT	cluster-hsa-mir-186(1)	sf-hsa-miR-186(1)	hsa-miR-186
hsa-miR-186*	GCCCAAAGGTGAATTTTTTGG	cluster-hsa-mir-186(1)	sf-hsa-miR-186*(1)	hsa-miR-186*
hsa-miR-187	TCGTGTCTTGTGTGCAGCCGG	cluster-hsa-mir-187(1)	sf-hsa-miR-187(1)	hsa-miR-187
hsa-miR-187*	GCTACAACACAGGACCCGGGGCG	cluster-hsa-mir-187(1)	sf-hsa-miR-187*(1)	hsa-miR-187*
hsa-miR-188	CATCCCTTGCATGGTGGAGGGT	cluster-hsa-mir-188(8)	sf-hsa-miR-188(1)	hsa-miR-188
hsa-miR-188*	CTCCCACATGCAGGGTTTGCA	cluster-hsa-mir-188(8)	sf-hsa-miR-532-3p(2)	hsa-miR-188*
hsa-miR-18a	TAAGGTGCATCTAGTGCAGATAG	cluster-hsa-mir-17(12)	sf-hsa-miR-17(8)	hsa-miR-18a
hsa-miR-18a*	ACTGCCCTAAGTGCTCCTTCTGG	cluster-hsa-mir-17(12)	sf-hsa-miR-18a*(2)	hsa-miR-18a*
hsa-miR-18b	TAAGGTGCATCTAGTGCAGTT	cluster-hsa-mir-17(12)	sf-hsa-miR-17(8)	hsa-miR-18b
hsa-miR-18b*	TACTGCCCTAAATGCCCTTCT	cluster-hsa-mir-17(12)	sf-hsa-miR-18a*(2)	hsa-miR-18b*
hsa-miR-1908	CGGCGGGGACGGCGATTGGTC	cluster-hsa-mir-1908(1)	sf-hsa-miR-1908(1)	hsa-miR-1908
hsa-miR-1908*	CCGGCCGCGCGCTCCGCCCCG	cluster-hsa-mir-1908(1)	sf-hsa-miR-1908*(1)	hsa-miR-1908*
hsa-miR-190a	TGATATGTTTGATATATTAGTT	cluster-hsa-mir-190a(1)	sf-hsa-miR-190a(2)	hsa-miR-190a
hsa-miR-190a*	ACTATATATCAAAACATATTCCCT	cluster-hsa-mir-190a(1)	sf-hsa-miR-190a*(1)	hsa-miR-190a*
hsa-miR-190b	TGATATGTTTGATATTGGGTTG	cluster-hsa-mir-190b(1)	sf-hsa-miR-190a(2)	hsa-miR-190b
hsa-miR-190b*	ACTAAATGTCAAACATATTCTT	cluster-hsa-mir-190b(1)	sf-hsa-miR-190b*(1)	hsa-miR-190b*
hsa-miR-191	CAACGGAATCCCCAAAGCAGCT	cluster-hsa-mir-191(2)	sf-hsa-miR-191(1)	hsa-miR-191
hsa-miR-191*	CTGCGCTTGGATTTCGTCCCC	cluster-hsa-mir-191(2)	sf-hsa-miR-191*(1)	hsa-miR-191*
hsa-miR-1910	CCAGTCTGTGCCTGCCGCT	cluster-hsa-mir-1910(1)	sf-hsa-miR-1910(1)	hsa-miR-1910
hsa-miR-1910*	GAGGCAGAGCAGGATGACA	cluster-hsa-mir-1910(1)	sf-hsa-miR-1910*(1)	hsa-miR-1910*
hsa-miR-1911	TGAGTACCGCCATGTCTGTTGGG	cluster-hsa-mir-1911(1)	sf-hsa-miR-1911(1)	hsa-miR-1911
hsa-miR-1911*	CACAGGCACTTGTGGTCTCCGC	cluster-hsa-mir-1911(1)	sf-hsa-miR-1911*(1)	hsa-miR-1911*
hsa-miR-1912-3p	TACCCAGAGCATGCAGTGTGA	cluster-hsa-mir-1264(2)	sf-hsa-miR-1912-3p(1)	hsa-miR-1912-3p
hsa-miR-1912-5p	TGCTCATTGCATGGGCTGTGT	cluster-hsa-mir-1264(2)	sf-hsa-miR-1912-5p(1)	hsa-miR-1912-5p
hsa-miR-1914-3p	AGGAGGGGTCGCCCACTGGGAG	cluster-hsa-mir-1914(1)	sf-hsa-miR-1914-3p(1)	hsa-miR-1914-3p
hsa-miR-1914-5p	CCCTGTGCGCCGCCCACTTCTGC	cluster-hsa-mir-1914(1)	sf-hsa-miR-1914-5p(1)	hsa-miR-1914-5p
hsa-miR-192	CTGACCTATGAATTGACAGCC	cluster-hsa-mir-192(4)	sf-hsa-miR-192(2)	hsa-miR-192
hsa-miR-192*	CTGCCAATTCATAGGTCACAG	cluster-hsa-mir-192(4)	sf-hsa-miR-192*(1)	hsa-miR-192*
hsa-miR-193a-3p	AACTGGCCTACAAAGTCCCAGT	cluster-hsa-mir-193a(4)	sf-hsa-miR-193a-3p(2)	hsa-miR-193a-3p
hsa-miR-193a-5p	TGGGTCTTTGCGGGCGAGATGA	cluster-hsa-mir-193a(4)	sf-hsa-miR-193a-5p(1)	hsa-miR-193a-5p
hsa-miR-193b	AACTGGCCCTCAAAGTCCCGCT	cluster-hsa-mir-193a(4)	sf-hsa-miR-193a-3p(2)	hsa-miR-193b
hsa-miR-193b*	CGGGGTTTTGAGGGCGAGATGA	cluster-hsa-mir-193a(4)	sf-hsa-miR-193b*(1)	hsa-miR-193b*
hsa-miR-194-1	TGTAACAGCAACTCCATGTGGA	cluster-hsa-mir-192(4)	sf-hsa-miR-194-1(2)	hsa-miR-194(2)
hsa-miR-194-1*	CCAGTGAGATGCTGTACTTT	cluster-hsa-mir-192(4)	sf-hsa-miR-194-1*(2)	hsa-miR-194-1*
hsa-miR-194-2	TGTAACAGCAACTCCATGTGGA	cluster-hsa-mir-192(4)	sf-hsa-miR-194-1(2)	hsa-miR-194(2)
hsa-miR-194-2*	CCAGTGGGCTGCTGTTATCTG	cluster-hsa-mir-192(4)	sf-hsa-miR-194-1*(2)	hsa-miR-194-2*
hsa-miR-195	TAGCAGCACAGAAATATTGGCA	cluster-hsa-mir-195(2)	sf-hsa-miR-16-1(3)	hsa-miR-195
hsa-miR-195*	CCAATATTGGCTGTGCTGCTCCA	cluster-hsa-mir-195(2)	sf-hsa-miR-16-1*(3)	hsa-miR-195*
hsa-miR-196a-1	TAGGTAGTTTCATGTTGTTGGG	cluster-hsa-mir-196a-1(3)	sf-hsa-miR-196a-1(3)	hsa-miR-196a(2)
hsa-miR-196a-1*	ACAACAACATTAAACCACCCGA	cluster-hsa-mir-196a-1(3)	sf-hsa-miR-196a-1*(1)	hsa-miR-196a-1*
hsa-miR-196a-2	TAGGTAGTTTCATGTTGTTGGG	cluster-hsa-mir-196a-1(3)	sf-hsa-miR-196a-1(3)	hsa-miR-196a(2)
hsa-miR-196a-2*	TCGGCAACAAGAACTGCCTGA	cluster-hsa-mir-196a-1(3)	sf-hsa-miR-196a-2*(1)	hsa-miR-196a-2*
hsa-miR-196b	TAGGTAGTTTCCTGTTGTTGGG	cluster-hsa-mir-196b(1)	sf-hsa-miR-196a-1(3)	hsa-miR-196b
hsa-miR-196b*	TCGACAGCAGCAGACTGCCTTC	cluster-hsa-mir-196b(1)	sf-hsa-miR-196b*(1)	hsa-miR-196b*
hsa-miR-197	TTCAACCACTTCTCCACCCAGC	cluster-hsa-mir-197(1)	sf-hsa-miR-197(1)	hsa-miR-197
hsa-miR-197*	CGGGTAGAGGGGCAAGTGGGAGG	cluster-hsa-mir-197(1)	sf-hsa-miR-197*(1)	hsa-miR-197*
hsa-miR-199a-1-3p	ACAGTAGTCTGCACATTGGTT	cluster-hsa-mir-199a-1(3)	sf-hsa-miR-199a-1-3p(3)	hsa-miR-199a-3p(2)
hsa-miR-199a-1-5p	CCCAGTGTTTCACTACCTGTTT	cluster-hsa-mir-199a-1(3)	sf-hsa-miR-199a-1-5p(3)	hsa-miR-199a-5p(2)
hsa-miR-199a-2-3p	ACAGTAGTCTGCACATTGGTT	cluster-hsa-mir-199a-1(3)	sf-hsa-miR-199a-1-3p(3)	hsa-miR-199a-3p(2)
hsa-miR-199a-2-5p	CCAGTAGTTCAGACTACCTGTTT	cluster-hsa-mir-199a-1(3)	sf-hsa-miR-199a-1-5p(3)	hsa-miR-199a-5p(2)
hsa-miR-199b-3p	ACAGTAGTCTGCACATTGGTT	cluster-hsa-mir-199b(1)	sf-hsa-miR-199a-1-3p(3)	hsa-miR-199b-3p
hsa-miR-199b-5p	CCCAGTGTTTAGACTATCTGTTC	cluster-hsa-mir-199b(1)	sf-hsa-miR-199a-1-5p(3)	hsa-miR-199b-5p
hsa-miR-19a	TGTGCAAACTATGCAAACTGA	cluster-hsa-mir-17(12)	sf-hsa-miR-19a(3)	hsa-miR-19a
hsa-miR-19a*	AGTTTTGCATAGTTGCACTAC	cluster-hsa-mir-17(12)	sf-hsa-miR-19a*(3)	hsa-miR-19a*
hsa-miR-19b-1	TGTGCAAACTCATGCAAACTGA	cluster-hsa-mir-17(12)	sf-hsa-miR-19a(3)	hsa-miR-19b(2)
hsa-miR-19b-1*	AGTTTTGCAGGTTTGCATCCAGC	cluster-hsa-mir-17(12)	sf-hsa-miR-19a*(3)	hsa-miR-19b-1*
hsa-miR-19b-2	TGTGCAAACTCATGCAAACTGA	cluster-hsa-mir-17(12)	sf-hsa-miR-19a(3)	hsa-miR-19b(2)
hsa-miR-19b-2*	AGTTTTGCAGGTTTGCATTTCAGC	cluster-hsa-mir-17(12)	sf-hsa-miR-19a*(3)	hsa-miR-19b-2*
hsa-miR-200a	TAACACTGTCTGGTAACGATGTT	cluster-hsa-mir-200a(3)	sf-hsa-miR-141(5)	hsa-miR-200a
hsa-miR-200a*	CATCTTACCGGACAGTGCTGGA	cluster-hsa-mir-200a(3)	sf-hsa-miR-200a*(2)	hsa-miR-200a*
hsa-miR-200b	TAATACTGCCTGGTAATGATGA	cluster-hsa-mir-200a(3)	sf-hsa-miR-141(5)	hsa-miR-200b
hsa-miR-200b*	CATCTTACTGGGCAGCATTTGA	cluster-hsa-mir-200a(3)	sf-hsa-miR-200a*(2)	hsa-miR-200b*
hsa-miR-200c	TAATACTGCCGGTAATGATGGA	cluster-hsa-mir-141(2)	sf-hsa-miR-141(5)	hsa-miR-200c
hsa-miR-200c*	CGTCTTACCCAGCAGTGTGTTGG	cluster-hsa-mir-141(2)	sf-hsa-miR-200c*(1)	hsa-miR-200c*
hsa-miR-202-3p	AGAGGTATAGGGCATGGGAA	cluster-hsa-mir-202(1)	sf-hsa-miR-202*(1)	hsa-miR-202-3p
hsa-miR-202-5p	TTCTATGCATATACTTCTTT	cluster-hsa-mir-202(1)	sf-hsa-miR-202(1)	hsa-miR-202-5p

Supplementary Table S4: MiRNA definitions (from supplemental reference #3)

miR name	Predominant miR sequence	Genomic cluster	Sequence family	Merged mature miR name
hsa-miR-203	GTGAAATGTTTAGGACCACTAG	cluster-hsa-mir-203(1)	sf-hsa-miR-203(1)	hsa-miR-203
hsa-miR-203*	AGTGGTTCTTAACAGTTCAACA	cluster-hsa-mir-203(1)	sf-hsa-miR-203*(1)	hsa-miR-203*
hsa-miR-204	TTCCCTTTGTGTCATCCTATGCCT	cluster-hsa-mir-204(1)	sf-hsa-miR-204(2)	hsa-miR-204
hsa-miR-204*	GCTGGGAAGGCAAAGGGACGT	cluster-hsa-mir-204(1)	sf-hsa-miR-204*(1)	hsa-miR-204*
hsa-miR-205	TCCTTCATTCCACCGGAGTCTGT	cluster-hsa-mir-205(1)	sf-hsa-miR-205(1)	hsa-miR-205
hsa-miR-205*	GATTTCAGTGGAGTGAAGTTC	cluster-hsa-mir-205(1)	sf-hsa-miR-205*(1)	hsa-miR-205*
hsa-miR-206	TGGAATGTAAGGAAGTGTGTGG	cluster-hsa-mir-133b(2)	sf-hsa-miR-1-1(3)	hsa-miR-206
hsa-miR-206*	ACATGCTTCTTTATATCCCAT	cluster-hsa-mir-133b(2)	sf-hsa-miR-1-1*(3)	hsa-miR-206*
hsa-miR-208a	ATAAGACGACAAAAGCTGT	cluster-hsa-mir-208(2)	sf-hsa-miR-208a(2)	hsa-miR-208a
hsa-miR-208a*	GAGCTTTTGGCCCGGTATAC	cluster-hsa-mir-208(2)	sf-hsa-miR-208a*(1)	hsa-miR-208a*
hsa-miR-208b	ATAAGACGAACAAAAGGTTTGT	cluster-hsa-mir-208(2)	sf-hsa-miR-208a(2)	hsa-miR-208b
hsa-miR-208b*	AAGCTTTTTGCTCGAATTATGT	cluster-hsa-mir-208(2)	sf-hsa-miR-208b*(1)	hsa-miR-208b*
hsa-miR-20a	TAAAGTGCTTATAGTGCAGGTAG	cluster-hsa-mir-17(12)	sf-hsa-miR-17(8)	hsa-miR-20a
hsa-miR-20a*	ACTGCATTATGAGCACTTAAAGT	cluster-hsa-mir-17(12)	sf-hsa-miR-20a*(1)	hsa-miR-20a*
hsa-miR-20b	CAAAGTGCTCATAGTGCAGGTAG	cluster-hsa-mir-17(12)	sf-hsa-miR-17(8)	hsa-miR-20b
hsa-miR-20b*	ACTGTAGTATGGGCACCTCCAGT	cluster-hsa-mir-17(12)	sf-hsa-miR-17*(3)	hsa-miR-20b*
hsa-miR-21	TAGCTTATCAGACTGATGTTGAC	cluster-hsa-mir-21(1)	sf-hsa-miR-21(1)	hsa-miR-21
hsa-miR-21*	CAACACCAGTCGATGGGCTGT	cluster-hsa-mir-21(1)	sf-hsa-miR-21*(1)	hsa-miR-21*
hsa-miR-210	CTGTGCGTGTGACAGCGGCTGA	cluster-hsa-mir-210(1)	sf-hsa-miR-210(1)	hsa-miR-210
hsa-miR-210*	AGCCCCCTGCCACCGCACACTG	cluster-hsa-mir-210(1)	sf-hsa-miR-210*(1)	hsa-miR-210*
hsa-miR-211	TTCCCTTTGTGTCATCCTTCGCCT	cluster-hsa-mir-211(1)	sf-hsa-miR-204(2)	hsa-miR-211
hsa-miR-211*	GCAGGGAACGACAAAAGGGGTGC	cluster-hsa-mir-211(1)	sf-hsa-miR-211*(1)	hsa-miR-211*
hsa-miR-2110	TTGGGGAAACGGCCGCTGAGTGA	cluster-hsa-mir-2110(1)	sf-hsa-miR-2110(1)	hsa-miR-2110
hsa-miR-2110*	CACCGCGGTCTTTTCTCCAC	cluster-hsa-mir-2110(1)	sf-hsa-miR-2110*(1)	hsa-miR-2110*
hsa-miR-2114	TAGTCCCTTCCTTGAAGCGGTC	cluster-hsa-mir-2114(1)	sf-hsa-miR-2114(1)	hsa-miR-2114
hsa-miR-2114*	CGAGCCTCAAGCAAGGGACTTCA	cluster-hsa-mir-2114(1)	sf-hsa-miR-2114*(1)	hsa-miR-2114*
hsa-miR-2115	AGCTTCCATGACTCCTGATGGA	cluster-hsa-mir-2115(1)	sf-hsa-miR-2115(1)	hsa-miR-2115
hsa-miR-2115*	CATCAGAATTCATGGAGGCTAG	cluster-hsa-mir-2115(1)	sf-hsa-miR-2115*(1)	hsa-miR-2115*
hsa-miR-2116-3p	TCCTCCCATGCCAAGAATCC	cluster-hsa-mir-2116(1)	sf-hsa-miR-2116-3p(1)	hsa-miR-2116-3p
hsa-miR-2116-5p	GGTTCTTAGCATAGGAGTCT	cluster-hsa-mir-2116(1)	sf-hsa-miR-2116-5p(1)	hsa-miR-2116-5p
hsa-miR-212-3p	TAACAGTCTCCAGTCACGGCCA	cluster-hsa-mir-132(2)	sf-hsa-miR-212-3p(1)	hsa-miR-212-3p
hsa-miR-212-5p	ACCTTGGCTCTAGACTGCTTACT	cluster-hsa-mir-132(2)	sf-hsa-miR-212-5p(1)	hsa-miR-212-5p
hsa-miR-214-3p	ACACAGGCGACAGACAGGCAGT	cluster-hsa-mir-199a-1(3)	sf-hsa-miR-214-3p(1)	hsa-miR-214-3p
hsa-miR-214-5p	TGCCTGTCTACACTTGCTGTGC	cluster-hsa-mir-199a-1(3)	sf-hsa-miR-214-5p(1)	hsa-miR-214-5p
hsa-miR-215	ATGACCTATGAATTGACAGACA	cluster-hsa-mir-192(4)	sf-hsa-miR-192(2)	hsa-miR-215
hsa-miR-215*	TCTGTCAATTTCTTTAGGCCAAT	cluster-hsa-mir-192(4)	sf-hsa-miR-215*(1)	hsa-miR-215*
hsa-miR-216a	TAATCTCAGCTGGCAACTGTGA	cluster-hsa-mir-216a(3)	sf-hsa-miR-216a(1)	hsa-miR-216a
hsa-miR-216a*	CACAGTGGTCTCTGGGATTATG	cluster-hsa-mir-216a(3)	sf-hsa-miR-216a*(1)	hsa-miR-216a*
hsa-miR-216b	AAATCTCTGCAGGCAATGTGA	cluster-hsa-mir-216a(3)	sf-hsa-miR-216b(1)	hsa-miR-216b
hsa-miR-216b*	ACACACTTACCGTAGAGATTCT	cluster-hsa-mir-216a(3)	sf-hsa-miR-216b*(1)	hsa-miR-216b*
hsa-miR-217	TACTGCATCAGGAAGTATTGGA	cluster-hsa-mir-216a(3)	sf-hsa-miR-217(1)	hsa-miR-217
hsa-miR-217*	CATCAGTTCCTAATGCAATTGCC	cluster-hsa-mir-216a(3)	sf-hsa-miR-217*(1)	hsa-miR-217*
hsa-miR-218-1	TTGTGCTTGATCTAACCATGT	cluster-hsa-mir-218-1(3)	sf-hsa-miR-218-1(2)	hsa-miR-218(2)
hsa-miR-218-1*	AAACATGGTTCGGTCAAGCACCA	cluster-hsa-mir-218-1(3)	sf-hsa-miR-218-1*(2)	hsa-miR-218-1*
hsa-miR-218-2	TTGTGCTTGATCTAACCATGT	cluster-hsa-mir-218-1(3)	sf-hsa-miR-218-1(2)	hsa-miR-218(2)
hsa-miR-218-2*	CATGTTCTGTCAAGCACCGCG	cluster-hsa-mir-218-1(3)	sf-hsa-miR-218-1*(2)	hsa-miR-218-2*
hsa-miR-219-1-3p	AGAGTTGAGTCTGGACGTCCCG	cluster-hsa-mir-219-1(2)	sf-hsa-miR-219-1-3p(1)	hsa-miR-219-1-3p
hsa-miR-219-1-5p	TGATTGTCCAACGCAATTCT	cluster-hsa-mir-219-1(2)	sf-hsa-miR-219-1-5p(2)	hsa-miR-219-5p(2)
hsa-miR-219-2-3p	AGAATTGTGGCTGGACATCTGT	cluster-hsa-mir-219-1(2)	sf-hsa-miR-219-2-3p(1)	hsa-miR-219-2-3p
hsa-miR-219-2-5p	TGATTGTCCAACGCAATTCT	cluster-hsa-mir-219-1(2)	sf-hsa-miR-219-1-5p(2)	hsa-miR-219-5p(2)
hsa-miR-22	AAGCTGCCAGTTGAAGAACTGT	cluster-hsa-mir-22(1)	sf-hsa-miR-22(1)	hsa-miR-22
hsa-miR-22*	AGTTCTTCAGTGGCAAGCTTT	cluster-hsa-mir-22(1)	sf-hsa-miR-22*(1)	hsa-miR-22*
hsa-miR-221	AGCTACATTGTCTGCTGGGTTT	cluster-hsa-mir-221(2)	sf-hsa-miR-221(1)	hsa-miR-221
hsa-miR-221*	ACCTGGCATACAATGTAGATTTCT	cluster-hsa-mir-221(2)	sf-hsa-miR-221*(1)	hsa-miR-221*
hsa-miR-222	AGCTACACTCTGGCTACTGGGTCT	cluster-hsa-mir-221(2)	sf-hsa-miR-222(1)	hsa-miR-222
hsa-miR-222*	GGCTCAGTAGCCAGTGTAGATC	cluster-hsa-mir-221(2)	sf-hsa-miR-222*(1)	hsa-miR-222*
hsa-miR-223	TGTCACTTTGTCAAATACCCCA	cluster-hsa-mir-223(1)	sf-hsa-miR-223(1)	hsa-miR-223
hsa-miR-223*	CGTGATTTGACAAGCTGAGTTG	cluster-hsa-mir-223(1)	sf-hsa-miR-223*(1)	hsa-miR-223*
hsa-miR-224	CAAGTCAGTAGTGGTTCCGTTT	cluster-hsa-mir-224(2)	sf-hsa-miR-224(1)	hsa-miR-224
hsa-miR-224*	AAATGGTGCCCTAGTGACTACA	cluster-hsa-mir-224(2)	sf-hsa-miR-224*(1)	hsa-miR-224*
hsa-miR-2276-3p	TCTGCAAGTGTGAGAGGCGAGG	cluster-hsa-mir-2276(1)	sf-hsa-miR-2276-3p(1)	hsa-miR-2276-3p
hsa-miR-2276-5p	GCCCTCTGTACCTTGACAGCG	cluster-hsa-mir-2276(1)	sf-hsa-miR-2276-5p(1)	hsa-miR-2276-5p
hsa-miR-2277	AGCGCGGGCTGAGCGCTGCCAGT	cluster-hsa-mir-2277(1)	sf-hsa-miR-2277(1)	hsa-miR-2277
hsa-miR-2277*	TGACAGCGCCCTGCCTGGCTCG	cluster-hsa-mir-2277(1)	sf-hsa-miR-2277*(1)	hsa-miR-2277*
hsa-miR-2278	GAGAGCAGTGTGTGTGCCCTGG	cluster-hsa-mir-2278(1)	sf-hsa-miR-2278(1)	hsa-miR-2278
hsa-miR-2278*	CAGACAGCTTGCACTGACTCCA	cluster-hsa-mir-2278(1)	sf-hsa-miR-2278*(1)	hsa-miR-2278*

Supplementary Table S4: MiRNA definitions (from supplemental reference #3)

miR name	Predominant miR sequence	Genomic cluster	Sequence family	Merged mature miR name
hsa-miR-2355-3p	TGTCCTTGCTGTTTGAGATA	cluster-hsa-mir-2355(1)	sf-hsa-miR-2355-3p(1)	hsa-miR-2355-3p
hsa-miR-2355-5p	ATCCCCAGATACAATGGACAAT	cluster-hsa-mir-2355(1)	sf-hsa-miR-2355-5p(1)	hsa-miR-2355-5p
hsa-miR-23a	ATCACATTGCCAGGGATTCCA	cluster-hsa-mir-23a(6)	sf-hsa-miR-23a(2)	hsa-miR-23a
hsa-miR-23a*	GGGGTTCTGGGGATGGGATTT	cluster-hsa-mir-23a(6)	sf-hsa-miR-23a*(2)	hsa-miR-23a*
hsa-miR-23b	ATCACATTGCCAGGGATTACC	cluster-hsa-mir-23a(6)	sf-hsa-miR-23a(2)	hsa-miR-23b
hsa-miR-23b*	TGGGTTCTGGCATGCTGATTT	cluster-hsa-mir-23a(6)	sf-hsa-miR-23a*(2)	hsa-miR-23b*
hsa-miR-24-1	TGGCTCAGTTCAGCAGGAACAG	cluster-hsa-mir-23a(6)	sf-hsa-miR-24-1(2)	hsa-miR-24(2)
hsa-miR-24-1*	GTGCCTACTGAGCTGATATCAGT	cluster-hsa-mir-23a(6)	sf-hsa-miR-24-1*(2)	hsa-miR-24-1*
hsa-miR-24-2	TGGCTCAGTTCAGCAGGAACAG	cluster-hsa-mir-23a(6)	sf-hsa-miR-24-1(2)	hsa-miR-24(2)
hsa-miR-24-2*	GTGCCTACTGAGCTGAAACACAGT	cluster-hsa-mir-23a(6)	sf-hsa-miR-24-1*(2)	hsa-miR-24-2*
hsa-miR-25	CATTGCACTTGCTCTGGTCTGA	cluster-hsa-mir-25(3)	sf-hsa-miR-25(4)	hsa-miR-25
hsa-miR-25*	AGGCGGAGACTTGGGCAATTGCT	cluster-hsa-mir-25(3)	sf-hsa-miR-25*(1)	hsa-miR-25*
hsa-miR-26a-1	TTCAAGTAATCCAGGATAGGCT	cluster-hsa-mir-26a-1(2)	sf-hsa-miR-26a-1(3)	hsa-miR-26a(2)
hsa-miR-26a-1*	CCTATTCTTGGTTACTTGCACG	cluster-hsa-mir-26a-1(2)	sf-hsa-miR-26a-1*(2)	hsa-miR-26a-1*
hsa-miR-26a-2	TTCAAGTAATCCAGGATAGGCT	cluster-hsa-mir-26a-1(2)	sf-hsa-miR-26a-1(3)	hsa-miR-26a(2)
hsa-miR-26a-2*	CCTATTCTTGATTACTTGTTC	cluster-hsa-mir-26a-1(2)	sf-hsa-miR-26a-1*(2)	hsa-miR-26a-2*
hsa-miR-26b	TTCAAGTAATTCAGGATAGGTT	cluster-hsa-mir-26b(1)	sf-hsa-miR-26a-1(3)	hsa-miR-26b
hsa-miR-26b*	CCTGTTCTCCATTACTTGGCT	cluster-hsa-mir-26b(1)	sf-hsa-miR-26b*(1)	hsa-miR-26b*
hsa-miR-27a	TTACAGTGGCTAAGTCCGC	cluster-hsa-mir-23a(6)	sf-hsa-miR-27a(2)	hsa-miR-27a
hsa-miR-27a*	AGGGCTTAGCTGCTTGTGAGCA	cluster-hsa-mir-23a(6)	sf-hsa-miR-27a*(2)	hsa-miR-27a*
hsa-miR-27b	TTACAGTGGCTAAGTTCTGC	cluster-hsa-mir-23a(6)	sf-hsa-miR-27a(2)	hsa-miR-27b
hsa-miR-27b*	AGAGCTTAGCTGATTGGTAAC	cluster-hsa-mir-23a(6)	sf-hsa-miR-27a*(2)	hsa-miR-27b*
hsa-miR-28-3p	CACTAGATTGTGAGCTCCTGGA	cluster-hsa-mir-28(1)	sf-hsa-miR-28-3p(1)	hsa-miR-28-3p
hsa-miR-28-5p	AAGGAGCTCACAGTCTATTGAG	cluster-hsa-mir-28(1)	sf-hsa-miR-28-5p(2)	hsa-miR-28-5p
hsa-miR-296-3p	GAGGGTTGGGTGGAGGCTCTCC	cluster-hsa-mir-296(1)	sf-hsa-miR-296-3p(1)	hsa-miR-296-3p
hsa-miR-296-5p	AGGGCCCCCTCAATCGCTGT	cluster-hsa-mir-296(1)	sf-hsa-miR-296-5p(1)	hsa-miR-296-5p
hsa-miR-299-3p	TATGTGGGATGGTAAACCGCTT	cluster-hsa-mir-134(41)	sf-hsa-miR-299-3p(1)	hsa-miR-299-3p
hsa-miR-299-5p	TGGTTTACCGTCCACATACAT	cluster-hsa-mir-134(41)	sf-hsa-miR-299-5p(1)	hsa-miR-299-5p
hsa-miR-29a	TAGCACCATCTGAAATCGGTTA	cluster-hsa-mir-29a(4)	sf-hsa-miR-29a(4)	hsa-miR-29a
hsa-miR-29a*	ACTGATTTCTTTTGGTGTTCAGA	cluster-hsa-mir-29a(4)	sf-hsa-miR-29a*(3)	hsa-miR-29a*
hsa-miR-29b-1	TAGCACCATTTGAAATCAGTGTT	cluster-hsa-mir-29a(4)	sf-hsa-miR-29a(4)	hsa-miR-29b(2)
hsa-miR-29b-1*	GCTGGTTTCATATGGTGGTTAGA	cluster-hsa-mir-29a(4)	sf-hsa-miR-29a*(3)	hsa-miR-29b-1*
hsa-miR-29b-2	TAGCACCATTTGAAATCAGTGTT	cluster-hsa-mir-29a(4)	sf-hsa-miR-29a(4)	hsa-miR-29b(2)
hsa-miR-29b-2*	CTGGTTTCACATGGTGGTGTAGA	cluster-hsa-mir-29a(4)	sf-hsa-miR-29a*(3)	hsa-miR-29b-2*
hsa-miR-29c	TAGCACCATTTGAAATCGGTT	cluster-hsa-mir-29a(4)	sf-hsa-miR-29a(4)	hsa-miR-29c
hsa-miR-29c*	TGACCGATTTCTCCTGGTGT	cluster-hsa-mir-29a(4)	sf-hsa-miR-29c*(1)	hsa-miR-29c*
hsa-miR-301a	CAGTGCAATAGTATTGTCAAAGC	cluster-hsa-mir-301a(2)	sf-hsa-miR-301a(2)	hsa-miR-301a
hsa-miR-301a*	GCTCTGACTTTATTGCACTAGT	cluster-hsa-mir-301a(2)	sf-hsa-miR-301a*(1)	hsa-miR-301a*
hsa-miR-301b	CAGTGCAATGATATTGTCAAAGC	cluster-hsa-mir-130b(2)	sf-hsa-miR-301a(2)	hsa-miR-301b
hsa-miR-301b*	GCTCTGACGAGGTTGCACTACT	cluster-hsa-mir-130b(2)	sf-hsa-miR-301b*(1)	hsa-miR-301b*
hsa-miR-302a-3p	TAAGTGCTTCCATGTTTTGGTGA	cluster-hsa-mir-302a(5)	sf-hsa-miR-302a-3p(4)	hsa-miR-302a-3p
hsa-miR-302a-5p	TAAACGTGGATGTATTGCTTT	cluster-hsa-mir-302a(5)	sf-hsa-miR-302a-5p(1)	hsa-miR-302a-5p
hsa-miR-302b	TAAGTGCTTCCATGTTTTAGTAG	cluster-hsa-mir-302a(5)	sf-hsa-miR-302a-3p(4)	hsa-miR-302b
hsa-miR-302b*	ACTTTAACATGGAAGTGCTTTCT	cluster-hsa-mir-302a(5)	sf-hsa-miR-302b*(2)	hsa-miR-302b*
hsa-miR-302c	AAGTGCTTCCATGTTTCAGTGG	cluster-hsa-mir-302a(5)	sf-hsa-miR-302a-3p(4)	hsa-miR-302c
hsa-miR-302c*	TTTAACATGGGGGTACCTGCT	cluster-hsa-mir-302a(5)	sf-hsa-miR-302c*(1)	hsa-miR-302c*
hsa-miR-302d	TAAGTGCTTCCATGTTTGAGTGT	cluster-hsa-mir-302a(5)	sf-hsa-miR-302a-3p(4)	hsa-miR-302d
hsa-miR-302d*	ACTTTAACATGGAGGCACTTGCT	cluster-hsa-mir-302a(5)	sf-hsa-miR-302b*(2)	hsa-miR-302d*
hsa-miR-3065-3p	TCAGCACCAAGGATATTGTTGGA	cluster-hsa-mir-3065(1)	sf-hsa-miR-3065-3p(1)	hsa-miR-3065-3p
hsa-miR-3065-5p	TCAACAAATCACTGATGCTGGA	cluster-hsa-mir-3065(1)	sf-hsa-miR-3065-5p(1)	hsa-miR-3065-5p
hsa-miR-3074-3p	GATATCAGCTCAGTAGGCCCG	cluster-hsa-mir-3074(1)	sf-hsa-miR-3074-3p(1)	hsa-miR-3074-3p
hsa-miR-3074-5p	GTTCTGCTGAACTGAGCCAGT	cluster-hsa-mir-3074(1)	sf-hsa-miR-3074-5p(1)	hsa-miR-3074-5p
hsa-miR-30a	TGTAACATCCTCGACTGGAAGCT	cluster-hsa-mir-30a(4)	sf-hsa-miR-30a(6)	hsa-miR-30a
hsa-miR-30a*	CTTTCAGTCGGATGTTTGACG	cluster-hsa-mir-30a(4)	sf-hsa-miR-30a*(3)	hsa-miR-30a*
hsa-miR-30b	TGTAACATCCTACACTCAGCT	cluster-hsa-mir-30b(2)	sf-hsa-miR-30a(6)	hsa-miR-30b
hsa-miR-30b*	CTGGGAGGTGGATGTTTACTTC	cluster-hsa-mir-30b(2)	sf-hsa-miR-30b*(3)	hsa-miR-30b*
hsa-miR-30c-1	TGTAACATCCTACACTCTCAGCT	cluster-hsa-mir-30a(4)	sf-hsa-miR-30a(6)	hsa-miR-30c(2)
hsa-miR-30c-1*	CTGGGAGAGGGTGTGTTTACTCC	cluster-hsa-mir-30a(4)	sf-hsa-miR-30b*(3)	hsa-miR-30c-1*
hsa-miR-30c-2	TGTAACATCCTACACTCTCAGCT	cluster-hsa-mir-30a(4)	sf-hsa-miR-30a(6)	hsa-miR-30c(2)
hsa-miR-30c-2*	CTGGGAGAAGGCTGTTTACTCT	cluster-hsa-mir-30a(4)	sf-hsa-miR-30b*(3)	hsa-miR-30c-2*
hsa-miR-30d	TGTAACATCCCCGACTGGAAGCT	cluster-hsa-mir-30b(2)	sf-hsa-miR-30a(6)	hsa-miR-30d
hsa-miR-30d*	CTTTCAGTCAGATGTTTGCTGC	cluster-hsa-mir-30b(2)	sf-hsa-miR-30a*(3)	hsa-miR-30d*
hsa-miR-30e	TGTAACATCCTTGACTGGAAGCT	cluster-hsa-mir-30a(4)	sf-hsa-miR-30a(6)	hsa-miR-30e
hsa-miR-30e*	CTTTCAGTCGGATGTTTACAGC	cluster-hsa-mir-30a(4)	sf-hsa-miR-30a*(3)	hsa-miR-30e*
hsa-miR-31-3p	TGCTATGCCAACATATTGCCATC	cluster-hsa-mir-31(1)	sf-hsa-miR-31-3p(1)	hsa-miR-31-3p
hsa-miR-31-5p	AGGCAAGATGCTGGCATAGCTG	cluster-hsa-mir-31(1)	sf-hsa-miR-31-5p(1)	hsa-miR-31-5p

Supplementary Table S4: MiRNA definitions (from supplemental reference #3)

miR name	Predominant miR sequence	Genomic cluster	Sequence family	Merged mature miR name
hsa-miR-3115	ATATGGGTTTACTAGTTGGT	cluster-hsa-mir-3115(1)	sf-hsa-miR-3115(1)	hsa-miR-3115
hsa-miR-3115*	CAACTATTAGGCCTTTATGTCC	cluster-hsa-mir-3115(1)	sf-hsa-miR-3115*(1)	hsa-miR-3115*
hsa-miR-3117	ATAGGACTCATATAGTGCCAGG	cluster-hsa-mir-3117(1)	sf-hsa-miR-3117(1)	hsa-miR-3117
hsa-miR-3117*	CAGACACTATACGAGTCATAT	cluster-hsa-mir-3117(1)	sf-hsa-miR-3117*(1)	hsa-miR-3117*
hsa-miR-3120	CACAGCAAGTGTAGACAGGCA	cluster-hsa-mir-3120(1)	sf-hsa-miR-3120(1)	hsa-miR-3120
hsa-miR-3120*	CCTGTCTGTGCCTGCTGTAC	cluster-hsa-mir-3120(1)	sf-hsa-miR-3120*(1)	hsa-miR-3120*
hsa-miR-3124	TTCGCGGGCGAAGGCAAAGTC	cluster-hsa-mir-3124(1)	sf-hsa-miR-3124(1)	hsa-miR-3124
hsa-miR-3124*	CTTTCTCACTCCCGTGAAGT	cluster-hsa-mir-3124(1)	sf-hsa-miR-3124*(1)	hsa-miR-3124*
hsa-miR-3126-3p	CATCTGGCATTCCGTCACACAGA	cluster-hsa-mir-3126(1)	sf-hsa-miR-3126-3p(1)	hsa-miR-3126-3p
hsa-miR-3126-5p	TGAGGGACAGATGCCAGAAGCA	cluster-hsa-mir-3126(1)	sf-hsa-miR-3126-5p(1)	hsa-miR-3126-5p
hsa-miR-3127-3p	TCCCCTTCTGCAGGCCTGCTGG	cluster-hsa-mir-3127(1)	sf-hsa-miR-3127-3p(1)	hsa-miR-3127-3p
hsa-miR-3127-5p	ATCAGGGCTTGTGGAATGGGAAG	cluster-hsa-mir-3127(1)	sf-hsa-miR-3127-5p(1)	hsa-miR-3127-5p
hsa-miR-3129-3p	AAACTAATCTCTACACTGCTGC	cluster-hsa-mir-3129(1)	sf-hsa-miR-3129-3p(1)	hsa-miR-3129-3p
hsa-miR-3129-5p	AGTAGTGTAGAGATTGGTTTGC	cluster-hsa-mir-3129(1)	sf-hsa-miR-3129-5p(1)	hsa-miR-3129-5p
hsa-miR-3130-3p	GCTGCACCGGAGACTGGGTAA	cluster-hsa-mir-3130(1)	sf-hsa-miR-3130-3p(1)	hsa-miR-3130-3p
hsa-miR-3130-5p	TACCCAGTCTCCGGTGCAGCC	cluster-hsa-mir-3130(1)	sf-hsa-miR-3130-5p(1)	hsa-miR-3130-5p
hsa-miR-3136	CTGACTGAATAGGTAGGGTCAT	cluster-hsa-mir-3136(1)	sf-hsa-miR-3136(1)	hsa-miR-3136
hsa-miR-3136*	TGGCCCAACCTATTCCAGTTAGT	cluster-hsa-mir-3136(1)	sf-hsa-miR-3136*(1)	hsa-miR-3136*
hsa-miR-3138-3p	ACAGTGAGGTAGAGGGAGTGC	cluster-hsa-mir-3138(1)	sf-hsa-miR-3138-3p(1)	hsa-miR-3138-3p
hsa-miR-3138-5p	ACTTCCCCCACCTCACTGCC	cluster-hsa-mir-3138(1)	sf-hsa-miR-3138-5p(1)	hsa-miR-3138-5p
hsa-miR-3139	TAGGAGCTCAACAGATGCCTGTT	cluster-hsa-mir-3139(1)	sf-hsa-miR-3139(1)	hsa-miR-3139
hsa-miR-3139*	CAGGTATCGCAGGAGCTTTGT	cluster-hsa-mir-3139(1)	sf-hsa-miR-3139*(1)	hsa-miR-3139*
hsa-miR-3140-3p	AGCTTTTGGGAATTCAGGTAG	cluster-hsa-mir-3140(1)	sf-hsa-miR-3140-3p(1)	hsa-miR-3140-3p
hsa-miR-3140-5p	ACCTGAATTACCAAAAGCTTT	cluster-hsa-mir-3140(1)	sf-hsa-miR-3140-5p(1)	hsa-miR-3140-5p
hsa-miR-3143-3p	GCAACTCTTTACAATGTTTCT	cluster-hsa-mir-3143(1)	sf-hsa-miR-3143-3p(1)	hsa-miR-3143-3p
hsa-miR-3143-5p	ATAACATTGTAAAGCGTCTCT	cluster-hsa-mir-3143(1)	sf-hsa-miR-3143-5p(1)	hsa-miR-3143-5p
hsa-miR-3144	ATATACCTGTTGCGTCTCTTT	cluster-hsa-mir-3144(1)	sf-hsa-miR-3144(1)	hsa-miR-3144
hsa-miR-3144*	AAGGGGACCAAGAGATATAT	cluster-hsa-mir-3144(1)	sf-hsa-miR-3144*(1)	hsa-miR-3144*
hsa-miR-3145-3p	AGATATTTTGAGTGTTTGGAAAT	cluster-hsa-mir-3145(1)	sf-hsa-miR-3145-3p(1)	hsa-miR-3145-3p
hsa-miR-3145-5p	AACCTCCAACTCAAAAACCTCA	cluster-hsa-mir-3145(1)	sf-hsa-miR-3145-5p(1)	hsa-miR-3145-5p
hsa-miR-3146-3p	CATGCTAGGATAGAAAGAATGGG	cluster-hsa-mir-3146(1)	sf-hsa-miR-3146-3p(1)	hsa-miR-3146-3p
hsa-miR-3146-5p	CTTCTTTCTATCCTAGTATAAC	cluster-hsa-mir-3146(1)	sf-hsa-miR-3146-5p(1)	hsa-miR-3146-5p
hsa-miR-3149	TTTGATGGATATGTGTGTAT	cluster-hsa-mir-3149(1)	sf-hsa-miR-3149(1)	hsa-miR-3149
hsa-miR-3149*	ACACACACATGTCATCCACACAC	cluster-hsa-mir-3149(1)	sf-hsa-miR-3149*(1)	hsa-miR-3149*
hsa-miR-3150-3p	CTGGGGAGATCCTCGAGGTTGG	cluster-hsa-mir-3150(1)	sf-hsa-miR-3150-3p(1)	hsa-miR-3150-3p
hsa-miR-3150-5p	CAACCTCGACGATCTCCTCAGC	cluster-hsa-mir-3150(1)	sf-hsa-miR-3150-5p(1)	hsa-miR-3150-5p
hsa-miR-3151	GGTGGGGCAATGGGATCAGGT	cluster-hsa-mir-3151(1)	sf-hsa-miR-3151(1)	hsa-miR-3151
hsa-miR-3151*	CCTGATCCCACAGCCCTGT	cluster-hsa-mir-3151(1)	sf-hsa-miR-3151*(1)	hsa-miR-3151*
hsa-miR-3152	ATTGCCTCTGTTCTAACACAAG	cluster-hsa-mir-3152(1)	sf-hsa-miR-3152(1)	hsa-miR-3152
hsa-miR-3152*	TGTGTTAGAATAGGGGCAATAA	cluster-hsa-mir-3152(1)	sf-hsa-miR-3152*(1)	hsa-miR-3152*
hsa-miR-3155-3p	CCAGGCTCTGCAGTGGGAACT	cluster-hsa-mir-3155(1)	sf-hsa-miR-3155-3p(1)	hsa-miR-3155-3p
hsa-miR-3155-5p	CCTCCCATGTCAGAGCCTGGGG	cluster-hsa-mir-3155(1)	sf-hsa-miR-3155-5p(1)	hsa-miR-3155-5p
hsa-miR-3157-3p	CTGCCCTAGTCTAGCTGAAGCT	cluster-hsa-mir-3157(1)	sf-hsa-miR-3157-3p(1)	hsa-miR-3157-3p
hsa-miR-3157-5p	TTCAGCCAGGCTAGTGCAGTCT	cluster-hsa-mir-3157(1)	sf-hsa-miR-3157-5p(1)	hsa-miR-3157-5p
hsa-miR-3158	AAGGGCTTCTCTCTGCAGGAC	cluster-hsa-mir-3158(1)	sf-hsa-miR-3158(1)	hsa-miR-3158
hsa-miR-3158*	CCTGCAGAGAGGAAGCCCTTCT	cluster-hsa-mir-3158(1)	sf-hsa-miR-3158*(1)	hsa-miR-3158*
hsa-miR-3170	CTGGGGTCTCTGAGACAGACAGT	cluster-hsa-mir-3170(1)	sf-hsa-miR-3170(1)	hsa-miR-3170
hsa-miR-3170*	TGCCTGTCTTAGAACCCCTATG	cluster-hsa-mir-3170(1)	sf-hsa-miR-3170*(1)	hsa-miR-3170*
hsa-miR-3171-3p	TATATAGATTCCATAAATCTAT	cluster-hsa-mir-3171(1)	sf-hsa-miR-3171-3p(1)	hsa-miR-3171-3p
hsa-miR-3171-5p	AGATGTATGGAATCTGTATAT	cluster-hsa-mir-3171(1)	sf-hsa-miR-3171-5p(1)	hsa-miR-3171-5p
hsa-miR-3173	TGCCCTGCCTGTTTTCTCCTTT	cluster-hsa-mir-3173(1)	sf-hsa-miR-3173(1)	hsa-miR-3173
hsa-miR-3173*	AAAGGAGGAAATAGGCAGGCCA	cluster-hsa-mir-3173(1)	sf-hsa-miR-3173*(1)	hsa-miR-3173*
hsa-miR-3174	TAGTGAGTTAGAGATGCAGAGC	cluster-hsa-mir-3174(1)	sf-hsa-miR-3174(1)	hsa-miR-3174
hsa-miR-3174*	ATCTGCATTTTAATTACATGC	cluster-hsa-mir-3174(1)	sf-hsa-miR-3174*(1)	hsa-miR-3174*
hsa-miR-3175	CGGGGACAGAAACGCAGTGACGT	cluster-hsa-mir-3175(1)	sf-hsa-miR-3175(1)	hsa-miR-3175
hsa-miR-3175*	TGTCGGGCGCTTTCTCCTCCC	cluster-hsa-mir-3175(1)	sf-hsa-miR-3175*(1)	hsa-miR-3175*
hsa-miR-3176	ACTGGCCTGGGACTACCGGGG	cluster-hsa-mir-3176(1)	sf-hsa-miR-3176(1)	hsa-miR-3176
hsa-miR-3176*	CCCGGCAGCCTCGGGCCACACTCC	cluster-hsa-mir-3176(1)	sf-hsa-miR-3176*(1)	hsa-miR-3176*
hsa-miR-3177	TGCACGGCACTGGGGACACGT	cluster-hsa-mir-3177(1)	sf-hsa-miR-3177(1)	hsa-miR-3177
hsa-miR-3177*	TGTGTACACACGTGCCAGGCGCT	cluster-hsa-mir-3177(1)	sf-hsa-miR-3177*(1)	hsa-miR-3177*
hsa-miR-3183	GCCTCTCTCGGAGTCGCTCGGA	cluster-hsa-mir-3183(1)	sf-hsa-miR-3183(1)	hsa-miR-3183
hsa-miR-3183*	CGGCGCCTCCTCGAGGGAGGA	cluster-hsa-mir-3183(1)	sf-hsa-miR-3183*(1)	hsa-miR-3183*
hsa-miR-3187	TTGGCCATGGGGCTGCGCGG	cluster-hsa-mir-3187(1)	sf-hsa-miR-3187(1)	hsa-miR-3187
hsa-miR-3187*	CCTGGGCAGCGTGTGGCTGAAGG	cluster-hsa-mir-3187(1)	sf-hsa-miR-3187*(1)	hsa-miR-3187*
hsa-miR-3189	CCCTTGGGTCTGATGGGGTAGC	cluster-hsa-mir-3189(1)	sf-hsa-miR-3189(1)	hsa-miR-3189
hsa-miR-3189*	TGCCCCATCTGTGCCCTGGGTAGG	cluster-hsa-mir-3189(1)	sf-hsa-miR-3189*(1)	hsa-miR-3189*

Supplementary Table S4: MiRNA definitions (from supplemental reference #3)

miR name	Predominant miR sequence	Genomic cluster	Sequence family	Merged mature miR name
hsa-miR-3193	TCCTGCGTAGGATCTGAGGAGT	cluster-hsa-mir-3193(1)	sf-hsa-miR-3193(1)	hsa-miR-3193
hsa-miR-3193*	TTACCCAGCTCCTGAGCAGGAA	cluster-hsa-mir-3193(1)	sf-hsa-miR-3193*(1)	hsa-miR-3193*
hsa-miR-3194-3p	AGCTCTGCTGCTCACTGGCAGT	cluster-hsa-mir-3194(1)	sf-hsa-miR-3194-3p(1)	hsa-miR-3194-3p
hsa-miR-3194-5p	GGCCAGCCACCAGGAGGGCTGC	cluster-hsa-mir-3194(1)	sf-hsa-miR-3194-5p(1)	hsa-miR-3194-5p
hsa-miR-3198	GTGGAGTCCCTGGGGAATGGAGA	cluster-hsa-mir-3198(1)	sf-hsa-miR-3198(1)	hsa-miR-3198
hsa-miR-3198*	ACTGTTACCCAGCACTAGCAGT	cluster-hsa-mir-3198(1)	sf-hsa-miR-3198*(1)	hsa-miR-3198*
hsa-miR-32	TATTGCACATTACTAAGTTGC	cluster-hsa-mir-32(1)	sf-hsa-miR-32(1)	hsa-miR-32
hsa-miR-32*	CAATTTAGTGTGTGTGATATT	cluster-hsa-mir-32(1)	sf-hsa-miR-32*(1)	hsa-miR-32*
hsa-miR-320-RNASEN	AAAGCTGGGTTGAGAGGGCGA	cluster-hsa-mir-320(1)	sf-hsa-miR-320-RNASEN(1)	hsa-miR-320-RNASEN
hsa-miR-320*-RNASEN	GCACCTCTCTTCCCGTTCTTCC	cluster-hsa-mir-320(1)	sf-hsa-miR-320*-RNASEN(1)	hsa-miR-320*-RNASEN
hsa-miR-3200	CACCTTGCGCTACTCAGGTCTGC	cluster-hsa-mir-3200(1)	sf-hsa-miR-3200(1)	hsa-miR-3200
hsa-miR-3200*	AATCTGAGAAGGCCGACAAGGTTT	cluster-hsa-mir-3200(1)	sf-hsa-miR-3200*(1)	hsa-miR-3200*
hsa-miR-323a	GCACATTACACGGTCGACCTCT	cluster-hsa-mir-134(41)	sf-hsa-miR-323a(1)	hsa-miR-323a
hsa-miR-323a*	AGGTGGTCCGTGGCGCGTTTCGC	cluster-hsa-mir-134(41)	sf-hsa-miR-323a*(1)	hsa-miR-323a*
hsa-miR-323b	CCCAATACACGGTCGACCTCT	cluster-hsa-mir-134(41)	sf-hsa-miR-323b(1)	hsa-miR-323b
hsa-miR-323b*	AGGTTGTCCGTGGTGAGTTCGCA	cluster-hsa-mir-134(41)	sf-hsa-miR-323b*(4)	hsa-miR-323b*
hsa-miR-324	CGCATCCCCTAGGGCATTGGTGT	cluster-hsa-mir-324(1)	sf-hsa-miR-324(1)	hsa-miR-324
hsa-miR-324*	CCACTGCCCCAGGTGCTGCTGG	cluster-hsa-mir-324(1)	sf-hsa-miR-324*(1)	hsa-miR-324*
hsa-miR-325	TTTATTGAGGACCTCCTATCAA	cluster-hsa-mir-325(2)	sf-hsa-miR-325(1)	hsa-miR-325
hsa-miR-325*	CCTAGTAGGTGTCCAGTAAGTGT	cluster-hsa-mir-325(2)	sf-hsa-miR-325*(1)	hsa-miR-325*
hsa-miR-326	CCTCTGGGCCCCTTCTCCAG	cluster-hsa-mir-326(1)	sf-hsa-miR-326(1)	hsa-miR-326
hsa-miR-326*	CTCATCTGTCTGTTGGGCT	cluster-hsa-mir-326(1)	sf-hsa-miR-326*(1)	hsa-miR-326*
hsa-miR-328	CTGGCCCTCTCTGCCCTCCGT	cluster-hsa-mir-328(1)	sf-hsa-miR-328(1)	hsa-miR-328
hsa-miR-328*	GGGGGGCAGGAGGGGCTCAGGG	cluster-hsa-mir-328(1)	sf-hsa-miR-328*(1)	hsa-miR-328*
hsa-miR-329-1	AACACACCTGGTTAACCTCTTT	cluster-hsa-mir-134(41)	sf-hsa-miR-329-1(2)	hsa-miR-329(2)
hsa-miR-329-1*	GAGGTTTCTGGGTTTCTGTTT	cluster-hsa-mir-134(41)	sf-hsa-miR-329-1*(2)	hsa-miR-329*(2)
hsa-miR-329-2	AACACACCTGGTTAACCTCTTT	cluster-hsa-mir-134(41)	sf-hsa-miR-329-1(2)	hsa-miR-329(2)
hsa-miR-329-2*	GAGGTTTCTGGGTTTCTGTTT	cluster-hsa-mir-134(41)	sf-hsa-miR-329-1*(2)	hsa-miR-329*(2)
hsa-miR-330-3p	GCAAAGCACACGGCCTGCAGAGA	cluster-hsa-mir-330(1)	sf-hsa-miR-330-3p(1)	hsa-miR-330-3p
hsa-miR-330-5p	TCTCTGGGCTGTGTCTTAGGCT	cluster-hsa-mir-330(1)	sf-hsa-miR-330-5p(1)	hsa-miR-330-5p
hsa-miR-331	GCCCCTGGGCTATCCTAGA	cluster-hsa-mir-331(1)	sf-hsa-miR-331(1)	hsa-miR-331
hsa-miR-331*	CTAGGTATGGTCCAGGGATC	cluster-hsa-mir-331(1)	sf-hsa-miR-331*(1)	hsa-miR-331*
hsa-miR-335-3p	TTTTTCATTATTGCTCCTGACC	cluster-hsa-mir-335(1)	sf-hsa-miR-335-3p(1)	hsa-miR-335-3p
hsa-miR-335-5p	TCAAGAGCAATAACGAAAAATG	cluster-hsa-mir-335(1)	sf-hsa-miR-335-5p(1)	hsa-miR-335-5p
hsa-miR-337	TCCTATATGATGCCTTTCTTC	cluster-hsa-mir-127(8)	sf-hsa-miR-337(1)	hsa-miR-337
hsa-miR-337*	GAACGGCTTCATACAGGAGTT	cluster-hsa-mir-127(8)	sf-hsa-miR-337*(1)	hsa-miR-337*
hsa-miR-338-3p	TCCAGCATCAGTGATTTTGT	cluster-hsa-mir-338(1)	sf-hsa-miR-338-3p(1)	hsa-miR-338-3p
hsa-miR-338-5p	AACAATATCTGGTGTCTAGT	cluster-hsa-mir-338(1)	sf-hsa-miR-338-5p(1)	hsa-miR-338-5p
hsa-miR-339-3p	TGAGCGCCTCGACGACAGAGC	cluster-hsa-mir-339(1)	sf-hsa-miR-339-3p(1)	hsa-miR-339-3p
hsa-miR-339-5p	TCCCTGTCTCCAGGAGCTCACG	cluster-hsa-mir-339(1)	sf-hsa-miR-339-5p(1)	hsa-miR-339-5p
hsa-miR-33a	GTGCATTGTAGTTGCATTGC	cluster-hsa-mir-33a(1)	sf-hsa-miR-33a(2)	hsa-miR-33a
hsa-miR-33a*	CAATGTTTCCACAGTGCATCA	cluster-hsa-mir-33a(1)	sf-hsa-miR-33a*(1)	hsa-miR-33a*
hsa-miR-33b	GTGCATTGCTGTTGCATTGC	cluster-hsa-mir-33b(1)	sf-hsa-miR-33a(2)	hsa-miR-33b
hsa-miR-33b*	CAGTGCCTCGGCAGTGCAGCC	cluster-hsa-mir-33b(1)	sf-hsa-miR-33b*(1)	hsa-miR-33b*
hsa-miR-340	TTATAAAGCAATGAGACTGATT	cluster-hsa-mir-340(1)	sf-hsa-miR-340(1)	hsa-miR-340
hsa-miR-340*	TCCGTCTCAGTTACTTTATAGC	cluster-hsa-mir-340(1)	sf-hsa-miR-340*(1)	hsa-miR-340*
hsa-miR-342	TCTCACACAGAAATCGCACCCGT	cluster-hsa-mir-342(1)	sf-hsa-miR-342(1)	hsa-miR-342
hsa-miR-342*	AGGGGTGTATCTGTGATTGAG	cluster-hsa-mir-342(1)	sf-hsa-miR-342*(1)	hsa-miR-342*
hsa-miR-345	GCTGACTCCTAGTCCAGGGCT	cluster-hsa-mir-345(1)	sf-hsa-miR-345(1)	hsa-miR-345
hsa-miR-345*	GCCCTGAACGAGGGGTCTGGAG	cluster-hsa-mir-345(1)	sf-hsa-miR-345*(1)	hsa-miR-345*
hsa-miR-346	TGTCTGGCCGCATGCCTGCCTCT	cluster-hsa-mir-346(1)	sf-hsa-miR-346(1)	hsa-miR-346
hsa-miR-346*	AGGCAGGGGCTGGGCCTGCAGC	cluster-hsa-mir-346(1)	sf-hsa-miR-346*(1)	hsa-miR-346*
hsa-miR-34a	TGGCAGTGTCTTAGCTGGTTGT	cluster-hsa-mir-34a(1)	sf-hsa-miR-34a(4)	hsa-miR-34a
hsa-miR-34a*	AATCAGCAAGTATACTGCCCTA	cluster-hsa-mir-34a(1)	sf-hsa-miR-34a*(1)	hsa-miR-34a*
hsa-miR-34b	AGGCAGTGTCTTAGCTGATTGT	cluster-hsa-mir-34b(2)	sf-hsa-miR-34b(1)	hsa-miR-34b
hsa-miR-34b*	AATCACTAACTCCACTGCCATC	cluster-hsa-mir-34b(2)	sf-hsa-miR-34b*(2)	hsa-miR-34b*
hsa-miR-34c	AGGCAGTGTAGTTAGCTGATTGC	cluster-hsa-mir-34b(2)	sf-hsa-miR-34a(4)	hsa-miR-34c
hsa-miR-34c*	AATCACTAACCAACGCGCCAGG	cluster-hsa-mir-34b(2)	sf-hsa-miR-34b*(2)	hsa-miR-34c*
hsa-miR-3605-3p	CCTCCGTGTTACCTGTCTCTCT	cluster-hsa-mir-3605(1)	sf-hsa-miR-3605-3p(1)	hsa-miR-3605-3p
hsa-miR-3605-5p	TGAGGATGGATAGCAAGGAAGC	cluster-hsa-mir-3605(1)	sf-hsa-miR-3605-5p(1)	hsa-miR-3605-5p
hsa-miR-361-3p	TCCCCAGGTGTGATTCTGATT	cluster-hsa-mir-361(1)	sf-hsa-miR-361-3p(1)	hsa-miR-361-3p
hsa-miR-361-5p	TTATCAGAATCTCCAGGGGTAC	cluster-hsa-mir-361(1)	sf-hsa-miR-361-5p(1)	hsa-miR-361-5p
hsa-miR-3611	TTGTGAAGAAAGAAATCTT	cluster-hsa-mir-3611(1)	sf-hsa-miR-3611(1)	hsa-miR-3611
hsa-miR-3611*	AAGAATTTCTTTTCTTCACAATT	cluster-hsa-mir-3611(1)	sf-hsa-miR-3611*(1)	hsa-miR-3611*
hsa-miR-3612	AGGAGGCATCTTGAGAAATGGA	cluster-hsa-mir-3612(1)	sf-hsa-miR-3612(1)	hsa-miR-3612
hsa-miR-3612*	CAGTTCCTAGAGGCGTCTCTGA	cluster-hsa-mir-3612(1)	sf-hsa-miR-3612*(1)	hsa-miR-3612*

Supplementary Table S4: MiRNA definitions (from supplemental reference #3)

miR name	Predominant miR sequence	Genomic cluster	Sequence family	Merged mature miR name
hsa-miR-3613	TGTTGTACTTTTTTTTTTGTTC	cluster-hsa-mir-3613(1)	sf-hsa-miR-3613(1)	hsa-miR-3613
hsa-miR-3613*	ACAAAAAAGCCCAACCCCT	cluster-hsa-mir-3613(1)	sf-hsa-miR-3613*(1)	hsa-miR-3613*
hsa-miR-3614-3p	TAGCCTTCAGATCTTGGTGTTC	cluster-hsa-mir-3614(1)	sf-hsa-miR-3614-3p(1)	hsa-miR-3614-3p
hsa-miR-3614-5p	CCACTTGGATCTGAAGGCTGCC	cluster-hsa-mir-3614(1)	sf-hsa-miR-3614-5p(1)	hsa-miR-3614-5p
hsa-miR-3617	AAAGACATAGTTGCAAGATGGG	cluster-hsa-mir-3617(1)	sf-hsa-miR-3617(1)	hsa-miR-3617
hsa-miR-3617*	TCATCAGCACCCCTATGTCCTTT	cluster-hsa-mir-3617(1)	sf-hsa-miR-3617*(1)	hsa-miR-3617*
hsa-miR-3619-3p	GGGACCATCCTGCCTGCTGTGG	cluster-hsa-mir-3619(1)	sf-hsa-miR-3619-3p(1)	hsa-miR-3619-3p
hsa-miR-3619-5p	TCAGCAGGCAGGCTGGTGCA	cluster-hsa-mir-3619(1)	sf-hsa-miR-3619-5p(1)	hsa-miR-3619-5p
hsa-miR-362-3p	AACACACCTATTCAAGGATTCA	cluster-hsa-mir-188(8)	sf-hsa-miR-362-3p(1)	hsa-miR-362-3p
hsa-miR-362-5p	AATCCTTGGAACTAGGTGTGAGT	cluster-hsa-mir-188(8)	sf-hsa-miR-362-5p(3)	hsa-miR-362-5p
hsa-miR-3622-3p	CACCTGACCTCCCATGCCTGTG	cluster-hsa-mir-3622(1)	sf-hsa-miR-3622-3p(1)	hsa-miR-3622-3p
hsa-miR-3622-5p	CAGGCACGGGAGCTCAGGTGAG	cluster-hsa-mir-3622(1)	sf-hsa-miR-3622-5p(1)	hsa-miR-3622-5p
hsa-miR-363	AATTGCACGGTATCCATCTGTA	cluster-hsa-mir-17(12)	sf-hsa-miR-363(1)	hsa-miR-363
hsa-miR-363*	CGGGTGGATCAGCATGCAATTTT	cluster-hsa-mir-17(12)	sf-hsa-miR-363*(1)	hsa-miR-363*
hsa-miR-365-1	TAATGCCCTAAAAATCCTTAT	cluster-hsa-mir-193a(4)	sf-hsa-miR-365-1(2)	hsa-miR-365(2)
hsa-miR-365-1*	AGGGACTTTTGGGGGCAGATGTG	cluster-hsa-mir-193a(4)	sf-hsa-miR-365-1*(2)	hsa-miR-365-1*
hsa-miR-365-2	TAATGCCCTAAAAATCCTTAT	cluster-hsa-mir-193a(4)	sf-hsa-miR-365-1(2)	hsa-miR-365(2)
hsa-miR-365-2*	AGGGACTTTTGGGGGCAGCTGTG	cluster-hsa-mir-193a(4)	sf-hsa-miR-365-1*(2)	hsa-miR-365-2*
hsa-miR-3657	TTGTGTCCCATATTGGTGATT	cluster-hsa-mir-3657(1)	sf-hsa-miR-3657(1)	hsa-miR-3657
hsa-miR-3657*	ATCACAATAATGGGACACTA	cluster-hsa-mir-3657(1)	sf-hsa-miR-3657*(1)	hsa-miR-3657*
hsa-miR-3659	TGAGTGTGTCTACGAGGGCAT	cluster-hsa-mir-3659(1)	sf-hsa-miR-3659(1)	hsa-miR-3659
hsa-miR-3659*	ATGCCCTGTACACAACACGCTG	cluster-hsa-mir-3659(1)	sf-hsa-miR-3659*(1)	hsa-miR-3659*
hsa-miR-3664-3p	TCTCAGGAGTAAAGACAGAGTTC	cluster-hsa-mir-3664(1)	sf-hsa-miR-3664-3p(1)	hsa-miR-3664-3p
hsa-miR-3664-5p	AACTCTGTCTTCACTCATGAGT	cluster-hsa-mir-3664(1)	sf-hsa-miR-3664-5p(1)	hsa-miR-3664-5p
hsa-miR-3667-3p	ACCTTCTCTCCATGGGTCTTT	cluster-hsa-mir-3667(1)	sf-hsa-miR-3667-3p(1)	hsa-miR-3667-3p
hsa-miR-3667-5p	AAGACCCATTGAGGAGAAGGTT	cluster-hsa-mir-3667(1)	sf-hsa-miR-3667-5p(1)	hsa-miR-3667-5p
hsa-miR-367	AATTGCACTTTAGCAATGGTGA	cluster-hsa-mir-302a(5)	sf-hsa-miR-367(1)	hsa-miR-367
hsa-miR-367*	ACTGTTGCTAATATGCAACTCT	cluster-hsa-mir-302a(5)	sf-hsa-miR-367*(1)	hsa-miR-367*
hsa-miR-3677-3p	CTCGTGGGCTCTGGCCACGGCC	cluster-hsa-mir-3677(1)	sf-hsa-miR-3677-3p(1)	hsa-miR-3677-3p
hsa-miR-3677-5p	CAGTGGCCAGAGCCCTGCA	cluster-hsa-mir-3677(1)	sf-hsa-miR-3677-5p(1)	hsa-miR-3677-5p
hsa-miR-3679-3p	CTTCCCCCAGTAATCTTCATC	cluster-hsa-mir-3679(1)	sf-hsa-miR-3679-3p(1)	hsa-miR-3679-3p
hsa-miR-3679-5p	TGAGGATATGGCAGGGAAG	cluster-hsa-mir-3679(1)	sf-hsa-miR-3679-5p(1)	hsa-miR-3679-5p
hsa-miR-3680	ACTCACTCACAGGATTGTGCA	cluster-hsa-mir-3680(1)	sf-hsa-miR-3680(1)	hsa-miR-3680
hsa-miR-3680*	TGCATGACCCTGGGAGTAGGTGC	cluster-hsa-mir-3680(1)	sf-hsa-miR-3680*(1)	hsa-miR-3680*
hsa-miR-3681	TAGTGGATGATGCACTCTGTGC	cluster-hsa-mir-3681(1)	sf-hsa-miR-3681(2)	hsa-miR-3681
hsa-miR-3681*	CACACAGTGCTTCATCCACT	cluster-hsa-mir-3681(1)	sf-hsa-miR-3681*(1)	hsa-miR-3681*
hsa-miR-3682-3p	TGATGATACAGGTGGAGGTAG	cluster-hsa-mir-3682(1)	sf-hsa-miR-3682-3p(1)	hsa-miR-3682-3p
hsa-miR-3682-5p	CTACTTCTACCTGTGTTATCA	cluster-hsa-mir-3682(1)	sf-hsa-miR-3682-5p(1)	hsa-miR-3682-5p
hsa-miR-3688	TATGGAAGACTTTGCCACTCT	cluster-hsa-mir-3688(1)	sf-hsa-miR-3688(1)	hsa-miR-3688
hsa-miR-3688*	AGTGGCAAAGTCTTCCATATG	cluster-hsa-mir-3688(1)	sf-hsa-miR-3688*(1)	hsa-miR-3688*
hsa-miR-369	ATAAATACATGGTTGATCTTT	cluster-hsa-mir-134(41)	sf-hsa-miR-369(2)	hsa-miR-369
hsa-miR-369*	AGATCGACCGTGTATTATTCG	cluster-hsa-mir-134(41)	sf-hsa-miR-369*(1)	hsa-miR-369*
hsa-miR-3691	TAGTGGATGATGGAGACTCGGT	cluster-hsa-mir-3691(1)	sf-hsa-miR-3681(2)	hsa-miR-3691
hsa-miR-3691*	ACCAAGTCTGCGTCATCCTCT	cluster-hsa-mir-3691(1)	sf-hsa-miR-3691*(1)	hsa-miR-3691*
hsa-miR-370	GCCTGTGGGGTGGAACCTGGT	cluster-hsa-mir-370(1)	sf-hsa-miR-370(1)	hsa-miR-370
hsa-miR-370*	GAGTCAAGTCTCTGCAAGTTAC	cluster-hsa-mir-370(1)	sf-hsa-miR-370*(1)	hsa-miR-370*
hsa-miR-371	ACTCAAAGTGTGGGGGCACTT	cluster-hsa-mir-371(3)	sf-hsa-miR-371(1)	hsa-miR-371
hsa-miR-371*	AAGTGCCGCCATCTTTGAGTGT	cluster-hsa-mir-371(3)	sf-hsa-miR-371*(1)	hsa-miR-371*
hsa-miR-372	AAAGTGCTGCGACATTTGAGCGT	cluster-hsa-mir-371(3)	sf-hsa-miR-372(1)	hsa-miR-372
hsa-miR-372*	CTCAAATGTGGAGCACTATT	cluster-hsa-mir-371(3)	sf-hsa-miR-372*(1)	hsa-miR-372*
hsa-miR-373	GAAGTGCTTCGATTTTGGGGTGT	cluster-hsa-mir-371(3)	sf-hsa-miR-373(1)	hsa-miR-373
hsa-miR-373*	ACTCAAATGGGGGCGCTTTCC	cluster-hsa-mir-371(3)	sf-hsa-miR-373*(2)	hsa-miR-373*
hsa-miR-374a	TTATAATACAACCTGATAAGTG	cluster-hsa-mir-374a(4)	sf-hsa-miR-374a(2)	hsa-miR-374a
hsa-miR-374a*	CTTATCAGATTGTATTGTAATT	cluster-hsa-mir-374a(4)	sf-hsa-miR-374a*(1)	hsa-miR-374a*
hsa-miR-374b	ATATAATACAACCTGCTAAGTG	cluster-hsa-mir-374a(4)	sf-hsa-miR-374a(2)	hsa-miR-374b
hsa-miR-374b*	CTTAGCAGTTGTATTATCATT	cluster-hsa-mir-374a(4)	sf-hsa-miR-374b*(1)	hsa-miR-374b*
hsa-miR-375	TTTGTTCTGTTGCGCTCGCGTGA	cluster-hsa-mir-375(1)	sf-hsa-miR-375(1)	hsa-miR-375
hsa-miR-375*	GCGACGAGCCCTCGCACAAACC	cluster-hsa-mir-375(1)	sf-hsa-miR-375*(1)	hsa-miR-375*
hsa-miR-376a-1-3p	ATCATAGAGGAAAATCCACGT	cluster-hsa-mir-134(41)	sf-hsa-miR-376a-1-3p(3)	hsa-miR-376a-3p(2)
hsa-miR-376a-1-5p	GTAGATTCTCCTTCTATGAGTAC	cluster-hsa-mir-134(41)	sf-hsa-miR-376a-1-5p(2)	hsa-miR-376a-1-5p
hsa-miR-376a-2-3p	ATCATAGAGGAAAATCCACGT	cluster-hsa-mir-134(41)	sf-hsa-miR-376a-1-3p(3)	hsa-miR-376a-3p(2)
hsa-miR-376a-2-5p	GTAGATTTTCTTCTATGGTTA	cluster-hsa-mir-134(41)	sf-hsa-miR-376a-1-5p(2)	hsa-miR-376a-2-5p
hsa-miR-376b	ATCATAGAGGAAAATCCACGT	cluster-hsa-mir-134(41)	sf-hsa-miR-376a-1-3p(3)	hsa-miR-376b
hsa-miR-376b*	GTGGATATTCCTTCTATGTTT	cluster-hsa-mir-134(41)	sf-hsa-miR-376b*(2)	hsa-miR-376b*
hsa-miR-376c	AACATAGAGGAAATCCACGT	cluster-hsa-mir-134(41)	sf-hsa-miR-376c(1)	hsa-miR-376c
hsa-miR-376c*	GTGGATATTCCTTCTATGTTT	cluster-hsa-mir-134(41)	sf-hsa-miR-376b*(2)	hsa-miR-376c*

Supplementary Table S4: MiRNA definitions (from supplemental reference #3)

miR name	Predominant miR sequence	Genomic cluster	Sequence family	Merged mature miR name
hsa-miR-377	ATCACACAAAGGCAACTTTTGT	cluster-hsa-mir-134(41)	sf-hsa-miR-377(1)	hsa-miR-377
hsa-miR-377*	AGAGGTTGCCCTTGGTGAATTC	cluster-hsa-mir-134(41)	sf-hsa-miR-154-5p(7)	hsa-miR-377*
hsa-miR-378	ACTGGACTTGGAGTCAGAAGGC	cluster-hsa-mir-378(1)	sf-hsa-miR-378(1)	hsa-miR-378
hsa-miR-378*	CTCCTGACTCCAGGTCCTGTGT	cluster-hsa-mir-378(1)	sf-hsa-miR-378*(1)	hsa-miR-378*
hsa-miR-379	TGGTAGACTATGGAACCGTAGG	cluster-hsa-mir-134(41)	sf-hsa-miR-379(1)	hsa-miR-379
hsa-miR-379*	TATGTAACATGGTCCACTAAC	cluster-hsa-mir-134(41)	sf-hsa-miR-380-3p(3)	hsa-miR-379*
hsa-miR-380-3p	TATGTAATATGGTCCACATCT	cluster-hsa-mir-134(41)	sf-hsa-miR-380-3p(3)	hsa-miR-380-3p
hsa-miR-380-5p	ATGGTTGACCATAGAACATGCG	cluster-hsa-mir-134(41)	sf-hsa-miR-380-5p(2)	hsa-miR-380-5p
hsa-miR-381	TATACAAGGGCAAGCTCTCTGT	cluster-hsa-mir-134(41)	sf-hsa-miR-381(3)	hsa-miR-381
hsa-miR-381*	AGCGAGGTTGCCCTTTGTATATT	cluster-hsa-mir-134(41)	sf-hsa-miR-381*(1)	hsa-miR-381*
hsa-miR-382-3p	AATCATTACGGACAACACTTT	cluster-hsa-mir-134(41)	sf-hsa-miR-382-3p(1)	hsa-miR-382-3p
hsa-miR-382-5p	GAAGTTGTTCTGGTGGATTGCG	cluster-hsa-mir-134(41)	sf-hsa-miR-154-5p(7)	hsa-miR-382-5p
hsa-miR-383	AGATCAGAAGGTGATTGTGGCT	cluster-hsa-mir-383(1)	sf-hsa-miR-383(1)	hsa-miR-383
hsa-miR-383*	CCACAGCACTGCCTGGTCAGA	cluster-hsa-mir-383(1)	sf-hsa-miR-383*(1)	hsa-miR-383*
hsa-miR-384-3p	ATTCTAGAAATTGTTCATAAT	cluster-hsa-mir-325(2)	sf-hsa-miR-384-3p(1)	hsa-miR-384-3p
hsa-miR-384-5p	TTTAAACAATTCTAGACAATAT	cluster-hsa-mir-325(2)	sf-hsa-miR-384-5p(1)	hsa-miR-384-5p
hsa-miR-3909	TGTCCTCTAGGGCCTGCAGTCT	cluster-hsa-mir-3909(1)	sf-hsa-miR-3909(1)	hsa-miR-3909
hsa-miR-3909*	GAGCAGGCTCCGGGGGACAGG	cluster-hsa-mir-3909(1)	sf-hsa-miR-3909*(1)	hsa-miR-3909*
hsa-miR-3910	AAAAGGCATAAAACCAAGACA	cluster-hsa-mir-3910(1)	sf-hsa-miR-3910(1)	hsa-miR-3910
hsa-miR-3910*	GTCTTGGTTTTATGCCTTTTA	cluster-hsa-mir-3910(1)	sf-hsa-miR-3910*(1)	hsa-miR-3910*
hsa-miR-3912	TAACGCATAATATGGACATGT	cluster-hsa-mir-3912(1)	sf-hsa-miR-3912(1)	hsa-miR-3912
hsa-miR-3912*	TAACATGTCCATATTATGGTT	cluster-hsa-mir-3912(1)	sf-hsa-miR-3912*(1)	hsa-miR-3912*
hsa-miR-3919-3p	GCAGAGAACAAAGGACTCAGT	cluster-hsa-mir-3919(1)	sf-hsa-miR-3919-3p(1)	hsa-miR-3919-3p
hsa-miR-3919-5p	TACTGAGTCCTTTGTCTCTAC	cluster-hsa-mir-3919(1)	sf-hsa-miR-3919-5p(1)	hsa-miR-3919-5p
hsa-miR-3922	TGTGGGACTTCTGGCCTTGACT	cluster-hsa-mir-3922(1)	sf-hsa-miR-3922(1)	hsa-miR-3922
hsa-miR-3922*	TCAAGGCCAGAGGTCCTCACAGC	cluster-hsa-mir-3922(1)	sf-hsa-miR-3922*(1)	hsa-miR-3922*
hsa-miR-3928	GGAGGAACCTTGAGCTTCGGC	cluster-hsa-mir-3928(1)	sf-hsa-miR-3928(1)	hsa-miR-3928
hsa-miR-3928*	GAAGCTCTAAGGTTCCGCCTGC	cluster-hsa-mir-3928(1)	sf-hsa-miR-3928*(1)	hsa-miR-3928*
hsa-miR-3934	TCAGGTGTGGAACCTGAGGCAG	cluster-hsa-mir-3934(1)	sf-hsa-miR-3934(1)	hsa-miR-3934
hsa-miR-3934*	TGCTAGGTTGCACGTGGGA	cluster-hsa-mir-3934(1)	sf-hsa-miR-3934*(1)	hsa-miR-3934*
hsa-miR-3938	AATCCCTTGTAGATAACCCGG	cluster-hsa-mir-3938(1)	sf-hsa-miR-3938(1)	hsa-miR-3938
hsa-miR-3938*	AGATTATCTACAAGGGAATTTT	cluster-hsa-mir-3938(1)	sf-hsa-miR-3938*(1)	hsa-miR-3938*
hsa-miR-3939-3p	TACGCGCAGACCACAGGATGTC	cluster-hsa-mir-3939(1)	sf-hsa-miR-3939-3p(1)	hsa-miR-3939-3p
hsa-miR-3939-5p	TTCTCGTATGTGGGCGTGCAC	cluster-hsa-mir-3939(1)	sf-hsa-miR-3939-5p(1)	hsa-miR-3939-5p
hsa-miR-3940	CAGCCCGGATCCCAGCCCACT	cluster-hsa-mir-3940(1)	sf-hsa-miR-3940(1)	hsa-miR-3940
hsa-miR-3940*	GTGGGTTGGGGCGGGCTCT	cluster-hsa-mir-3940(1)	sf-hsa-miR-3940*(1)	hsa-miR-3940*
hsa-miR-3942-3p	TTTCAGATAACAGTATTACATC	cluster-hsa-mir-3942(1)	sf-hsa-miR-3942-3p(1)	hsa-miR-3942-3p
hsa-miR-3942-5p	AGCAATAGCTTTACGTGAAAT	cluster-hsa-mir-3942(1)	sf-hsa-miR-3942-5p(1)	hsa-miR-3942-5p
hsa-miR-3944-3p	TTCTGGGCTGGCCTGCTGCCGG	cluster-hsa-mir-3944(1)	sf-hsa-miR-3944-3p(1)	hsa-miR-3944-3p
hsa-miR-3944-5p	TGTGCAGCAGGCCAACCGAGA	cluster-hsa-mir-3944(1)	sf-hsa-miR-3944-5p(1)	hsa-miR-3944-5p
hsa-miR-409-3p	GAATGTTGCTCGGTGAACCCCT	cluster-hsa-mir-134(41)	sf-hsa-miR-409-3p(1)	hsa-miR-409-3p
hsa-miR-409-5p	AGGTTACCTGAGCAACTTTGCAT	cluster-hsa-mir-134(41)	sf-hsa-miR-409-5p(1)	hsa-miR-409-5p
hsa-miR-410	AATATAACACAGATGGCCTGT	cluster-hsa-mir-134(41)	sf-hsa-miR-410(1)	hsa-miR-410
hsa-miR-410*	AGGTTGTCTGTGATGAGTTCTG	cluster-hsa-mir-134(41)	sf-hsa-miR-323b*(4)	hsa-miR-410*
hsa-miR-411	ATAGTAGACCGTATAGCGTACG	cluster-hsa-mir-134(41)	sf-hsa-miR-411(1)	hsa-miR-411
hsa-miR-411*	TATGTAACACGGTCCACTAAC	cluster-hsa-mir-134(41)	sf-hsa-miR-380-3p(3)	hsa-miR-411*
hsa-miR-412-3p	TTCACTGCTGCTAGCCG	cluster-hsa-mir-134(41)	sf-hsa-miR-412*(1)	hsa-miR-412-3p
hsa-miR-412-5p	TGGTCGACCAGTTGAAAGTAAT	cluster-hsa-mir-134(41)	sf-hsa-miR-412(1)	hsa-miR-412-5p
hsa-miR-421	ATCAACAGACATTAAATGGGCGC	cluster-hsa-mir-374a(4)	sf-hsa-miR-95(2)	hsa-miR-421
hsa-miR-421*	CTCATTAAATGTTTGTGAAT	cluster-hsa-mir-374a(4)	sf-hsa-miR-421*(1)	hsa-miR-421*
hsa-miR-423-3p	AGCTCGGTCTGAGGCCCTCAGT	cluster-hsa-mir-423(1)	sf-hsa-miR-423-3p(1)	hsa-miR-423-3p
hsa-miR-423-5p	TGAGGGGCGAGAGCGAGACTTT	cluster-hsa-mir-423(1)	sf-hsa-miR-423-5p(1)	hsa-miR-423-5p
hsa-miR-424	CAGCAGCAATTCATGTTTGA	cluster-hsa-mir-424(2)	sf-hsa-miR-424(1)	hsa-miR-424
hsa-miR-424*	CAAAACGTGAGGCGCTGCTAT	cluster-hsa-mir-424(2)	sf-hsa-miR-424*(1)	hsa-miR-424*
hsa-miR-425	AATGACACGATCACTCCGTTGAGT	cluster-hsa-mir-191(2)	sf-hsa-miR-425(1)	hsa-miR-425
hsa-miR-425*	CATCGGGAATGTCGTGTCGCC	cluster-hsa-mir-191(2)	sf-hsa-miR-425*(1)	hsa-miR-425*
hsa-miR-429	TAATACTGTCTGGTAAACCGT	cluster-hsa-mir-200a(3)	sf-hsa-miR-141(5)	hsa-miR-429
hsa-miR-429*	TCTTACCAGACATGGTTAGAC	cluster-hsa-mir-200a(3)	sf-hsa-miR-429*(1)	hsa-miR-429*
hsa-miR-431-3p	CAGGTGCTCTTGCAGGCTTCT	cluster-hsa-mir-127(8)	sf-hsa-miR-154-5p(7)	hsa-miR-431-3p
hsa-miR-431-5p	TGTCTTGCAGGCCGTCATGCA	cluster-hsa-mir-127(8)	sf-hsa-miR-431-5p(1)	hsa-miR-431-5p
hsa-miR-432	TCTTGGAGTAGGTCATTGGGTGG	cluster-hsa-mir-127(8)	sf-hsa-miR-432(1)	hsa-miR-432
hsa-miR-432*	ACTGGATGGCTCCTCCATGTCT	cluster-hsa-mir-127(8)	sf-hsa-miR-432*(1)	hsa-miR-432*
hsa-miR-4326	TGTTCTCTGTCTCCAGACTCT	cluster-hsa-mir-4326(1)	sf-hsa-miR-4326(1)	hsa-miR-4326
hsa-miR-4326*	GGTCGGGGGCCAGGGGACAGGA	cluster-hsa-mir-4326(1)	sf-hsa-miR-4326*(1)	hsa-miR-4326*
hsa-miR-433	ATCATGATGGGCTCCTCGGTGT	cluster-hsa-mir-127(8)	sf-hsa-miR-433(1)	hsa-miR-433
hsa-miR-433*	TACGGTGAGCCTGTCAATTATTC	cluster-hsa-mir-127(8)	sf-hsa-miR-433*(1)	hsa-miR-433*

Supplementary Table S4: MiRNA definitions (from supplemental reference #3)

miR name	Predominant miR sequence	Genomic cluster	Sequence family	Merged mature miR name
hsa-miR-448	TTGCATATGTAGGATGTCCCA	cluster-hsa-mir-448(1)	sf-hsa-miR-448-3p(1)	hsa-miR-448
hsa-miR-448*	AACATCCTGCATAGTGCTGCCA	cluster-hsa-mir-448(1)	sf-hsa-miR-448-5p(1)	hsa-miR-448*
hsa-miR-449a	TGGCAGTGATTGTAGCTGGT	cluster-hsa-mir-449a(3)	sf-hsa-miR-34a(4)	hsa-miR-449a
hsa-miR-449a*	CGGCTAACATGCAACTGCTGTC	cluster-hsa-mir-449a(3)	sf-hsa-miR-449a*(1)	hsa-miR-449a*
hsa-miR-449b	AGGCAGTGATTGTAGCTGGCT	cluster-hsa-mir-449a(3)	sf-hsa-miR-34a(4)	hsa-miR-449b
hsa-miR-449b*	CAGCCACAACCTACCCTGCCACT	cluster-hsa-mir-449a(3)	sf-hsa-miR-449b*(1)	hsa-miR-449b*
hsa-miR-449c-3p	CAGTTGCTAGTTGCACTCCTCT	cluster-hsa-mir-449a(3)	sf-hsa-miR-449c-3p(1)	hsa-miR-449c-3p
hsa-miR-449c-5p	TAGGCAGTGATTGCTAGCGGCT	cluster-hsa-mir-449a(3)	sf-hsa-miR-449c-5p(1)	hsa-miR-449c-5p
hsa-miR-450a-1	TTTTGCGATGTGTTCCCTAATAT	cluster-hsa-mir-450a-1(4)	sf-hsa-miR-450a-1(3)	hsa-miR-450a(2)
hsa-miR-450a-1*	ATTGGGAACATTTTGCATGTAT	cluster-hsa-mir-450a-1(4)	sf-hsa-miR-450a-1*(2)	hsa-miR-450a-1*
hsa-miR-450a-2	TTTTGCGATGTGTTCCCTAATAT	cluster-hsa-mir-450a-1(4)	sf-hsa-miR-450a-1(3)	hsa-miR-450a(2)
hsa-miR-450a-2*	TTGGGGACATTTTGCATTCAT	cluster-hsa-mir-450a-1(4)	sf-hsa-miR-450a-1*(2)	hsa-miR-450a-2*
hsa-miR-450b	TTTTGCAATATGTTCTGAATA	cluster-hsa-mir-450a-1(4)	sf-hsa-miR-450a-1(3)	hsa-miR-450b
hsa-miR-450b*	ATTGGGATCATTTTGCATCCAT	cluster-hsa-mir-450a-1(4)	sf-hsa-miR-450b*(1)	hsa-miR-450b*
hsa-miR-451-DICER1	AAACCGTTACCATTACTGA	cluster-hsa-mir-144(2)	sf-hsa-miR-451-DICER1(1)	hsa-miR-451-DICER1
hsa-miR-452	AACGTGTTGACAGGAAACTGA	cluster-hsa-mir-224(2)	sf-hsa-miR-452(1)	hsa-miR-452
hsa-miR-452*	TCAGTCTCATCTGCAAGAAGT	cluster-hsa-mir-224(2)	sf-hsa-miR-452*(1)	hsa-miR-452*
hsa-miR-454	TAGTGCAATATTGCTTATAGGGT	cluster-hsa-mir-301a(2)	sf-hsa-miR-454(1)	hsa-miR-454
hsa-miR-454*	ACCCTATCAATATTGTCTCTGC	cluster-hsa-mir-301a(2)	sf-hsa-miR-454*(1)	hsa-miR-454*
hsa-miR-455-3p	GCAGTCCATGGGCATATACAC	cluster-hsa-mir-455(1)	sf-hsa-miR-455-3p(1)	hsa-miR-455-3p
hsa-miR-455-5p	TATGTGCCCTTTGGACTACATCG	cluster-hsa-mir-455(1)	sf-hsa-miR-455-5p(1)	hsa-miR-455-5p
hsa-miR-466	TGTGTTGCATGTGTATATGT	cluster-hsa-mir-466(1)	sf-hsa-miR-466(1)	hsa-miR-466
hsa-miR-466*	ATACACATACACGCAACACACA	cluster-hsa-mir-466(1)	sf-hsa-miR-466*(1)	hsa-miR-466*
hsa-miR-483-3p	CACTCCTCTCCTCCCGTCTTCT	cluster-hsa-mir-483(1)	sf-hsa-miR-483-3p(1)	hsa-miR-483-3p
hsa-miR-483-5p	AAGACGGGAGGAAAGAGGGAG	cluster-hsa-mir-483(1)	sf-hsa-miR-483-5p(1)	hsa-miR-483-5p
hsa-miR-484-RNASEN	TCAGGCTCAGTCCCTCCCGAT	cluster-hsa-mir-484(1)	sf-hsa-miR-484-RNASEN(1)	hsa-miR-484-RNASEN
hsa-miR-484*-RNASEN	CCGGGGGGGGCGGGGCGCTCGCG	cluster-hsa-mir-484(1)	sf-hsa-miR-484*-RNASEN(1)	hsa-miR-484*-RNASEN
hsa-miR-485-3p	GTCATACACGGCTCTCCTCTCT	cluster-hsa-mir-134(41)	sf-hsa-miR-485-3p(1)	hsa-miR-485-3p
hsa-miR-485-5p	AGAGGCTGGCCGTGATGAATTCG	cluster-hsa-mir-134(41)	sf-hsa-miR-154-5p(7)	hsa-miR-485-5p
hsa-miR-486	TCCTGTACTGAGCTGCCCGCAG	cluster-hsa-mir-486(1)	sf-hsa-miR-486(1)	hsa-miR-486
hsa-miR-486*	CGGGGCAGCTCAGTACAGGAT	cluster-hsa-mir-486(1)	sf-hsa-miR-486*(1)	hsa-miR-486*
hsa-miR-487a-3p	AATCATACAGGGACATCCAGTT	cluster-hsa-mir-134(41)	sf-hsa-miR-487a-3p(2)	hsa-miR-487a-3p
hsa-miR-487a-5p	GTGGTTATCCCTGCTGTGTTTCG	cluster-hsa-mir-134(41)	sf-hsa-miR-487a-5p(2)	hsa-miR-487a-5p
hsa-miR-487b	AATCGTACAGGGTCATCCACTT	cluster-hsa-mir-134(41)	sf-hsa-miR-487a-3p(2)	hsa-miR-487b
hsa-miR-487b*	GTGGTTATCCCTGTCCTGTTTCG	cluster-hsa-mir-134(41)	sf-hsa-miR-487a-5p(2)	hsa-miR-487b*
hsa-miR-488	TTGAAAGGCTATTCTTGGTC	cluster-hsa-mir-488(1)	sf-hsa-miR-488(1)	hsa-miR-488
hsa-miR-488*	CCCAGATAATGGCACTCTCAAAAC	cluster-hsa-mir-488(1)	sf-hsa-miR-488*(1)	hsa-miR-488*
hsa-miR-489	GTGACATTACATATACGGCAGC	cluster-hsa-mir-489(2)	sf-hsa-miR-489(1)	hsa-miR-489
hsa-miR-489*	GGTCGTATGTGTACGCCATTT	cluster-hsa-mir-489(2)	sf-hsa-miR-489*(1)	hsa-miR-489*
hsa-miR-490-3p	CAACCTGGAGGACTCCATGCTGT	cluster-hsa-mir-490(1)	sf-hsa-miR-490-3p(1)	hsa-miR-490-3p
hsa-miR-490-5p	CCATGGATCTCCAGGTGGGT	cluster-hsa-mir-490(1)	sf-hsa-miR-490-5p(1)	hsa-miR-490-5p
hsa-miR-491	AGTGGGGAACCCCTTCATGAGGA	cluster-hsa-mir-491(1)	sf-hsa-miR-491(1)	hsa-miR-491
hsa-miR-491*	CTTATGCAAGATTCCCTTCTAC	cluster-hsa-mir-491(1)	sf-hsa-miR-491*(1)	hsa-miR-491*
hsa-miR-493	TTGTACATGGTAGGCTTTTCATT	cluster-hsa-mir-127(8)	sf-hsa-miR-493(1)	hsa-miR-493
hsa-miR-493*	TGAAGGTCTACTGTGTGCCAGG	cluster-hsa-mir-127(8)	sf-hsa-miR-493*(1)	hsa-miR-493*
hsa-miR-494	TGAAACATACACGGGAACCTCT	cluster-hsa-mir-134(41)	sf-hsa-miR-494(1)	hsa-miR-494
hsa-miR-494*	AGGTTGTCCGTGTTGTCTTCTC	cluster-hsa-mir-134(41)	sf-hsa-miR-323b*(4)	hsa-miR-494*
hsa-miR-495	AAACAAACATGGTGCACCTCTT	cluster-hsa-mir-134(41)	sf-hsa-miR-495(1)	hsa-miR-495
hsa-miR-495*	GAAAGTTGCCCATGTTATTTTCG	cluster-hsa-mir-134(41)	sf-hsa-miR-495*(2)	hsa-miR-495*
hsa-miR-496	TGAGTATTACATGGCCAATCTC	cluster-hsa-mir-134(41)	sf-hsa-miR-496(1)	hsa-miR-496
hsa-miR-496*	GGTTGTCCATGGTGTGTTTCATT	cluster-hsa-mir-134(41)	sf-hsa-miR-323b*(4)	hsa-miR-496*
hsa-miR-497	CAGCAGCACACTGTGGTTTGT	cluster-hsa-mir-195(2)	sf-hsa-miR-497(1)	hsa-miR-497
hsa-miR-497*	CAAACCACTACTGGTGTTAGA	cluster-hsa-mir-195(2)	sf-hsa-miR-497*(1)	hsa-miR-497*
hsa-miR-498-3p	AAAGCACCTCCAGAGCTTTGAAGCT	cluster-hsa-mir-498(46)	sf-hsa-miR-498-3p(1)	hsa-miR-498-3p
hsa-miR-498-5p	TTTCAAGCCAGGGGCGGTTTTTC	cluster-hsa-mir-498(46)	sf-hsa-miR-498-5p(1)	hsa-miR-498-5p
hsa-miR-499	TTAAGACTTGCAAGTGATGTTT	cluster-hsa-mir-499(1)	sf-hsa-miR-499(1)	hsa-miR-499
hsa-miR-499*	AACATCACAGCAAGTCTGTGCT	cluster-hsa-mir-499(1)	sf-hsa-miR-499*(1)	hsa-miR-499*
hsa-miR-500a	ATGCACCTGGGCAAGGATTCTGA	cluster-hsa-mir-188(8)	sf-hsa-miR-500a(1)	hsa-miR-500a
hsa-miR-500a*	TAATCCTTTGCTACCTGGGTGAGA	cluster-hsa-mir-188(8)	sf-hsa-miR-362-5p(3)	hsa-miR-500a*(2)
hsa-miR-500b	TAATCCTTGCTACCTGGGTGAGA	cluster-hsa-mir-188(8)	sf-hsa-miR-362-5p(3)	hsa-miR-500a*(2)
hsa-miR-500b*	AGTGACCCAGGCAAGGATTCT	cluster-hsa-mir-188(8)	sf-hsa-miR-500b*(1)	hsa-miR-500b*
hsa-miR-501-3p	AATGCACCTGGGCAAGGATTCT	cluster-hsa-mir-188(8)	sf-hsa-miR-501-3p(2)	hsa-miR-501-3p
hsa-miR-501-5p	AATCCTTTGCTCCCTGGGTGAGAGT	cluster-hsa-mir-188(8)	sf-hsa-miR-501-5p(1)	hsa-miR-501-5p
hsa-miR-502	AATGCACCTGGGCAAGGATTCA	cluster-hsa-mir-188(8)	sf-hsa-miR-501-3p(2)	hsa-miR-502
hsa-miR-502*	AATCCTTGCTATCTGGGTGCTAGT	cluster-hsa-mir-188(8)	sf-hsa-miR-502*(1)	hsa-miR-502*
hsa-miR-503	TAGCAGCGGGAACAGTTCTGCAG	cluster-hsa-mir-424(2)	sf-hsa-miR-503(1)	hsa-miR-503

Supplementary Table S4: MiRNA definitions (from supplemental reference #3)

miR name	Predominant miR sequence	Genomic cluster	Sequence family	Merged mature miR name
hsa-miR-503*	GGGGTATTGTTTCCGCTGCCAGG	cluster-hsa-mir-424(2)	sf-hsa-miR-503*(1)	hsa-miR-503*
hsa-miR-504	GACCCTGGTCTGCACTCTATC	cluster-hsa-mir-504(1)	sf-hsa-miR-504(1)	hsa-miR-504
hsa-miR-504*	GGGAGTGCAAGGCGAGGGTTT	cluster-hsa-mir-504(1)	sf-hsa-miR-504*(1)	hsa-miR-504*
hsa-miR-505	CGTCAACACTTGCTGGTTTCCT	cluster-hsa-mir-505(1)	sf-hsa-miR-505(1)	hsa-miR-505
hsa-miR-505*	GGGAGCCAGGAAGTATTGATGT	cluster-hsa-mir-505(1)	sf-hsa-miR-505*(1)	hsa-miR-505*
hsa-miR-506	GTAAGGCACCCCTTCTGAGTAGA	cluster-hsa-mir-506(11)	sf-hsa-miR-506(1)	hsa-miR-506
hsa-miR-506*	TATTCAGGAAGGTGTTACTTAA	cluster-hsa-mir-506(11)	sf-hsa-miR-506*(1)	hsa-miR-506*
hsa-miR-508	TGATTGTAGCCTTTTGGAGTAGA	cluster-hsa-mir-506(11)	sf-hsa-miR-508(1)	hsa-miR-508
hsa-miR-508*	TACTCCAGGGCGTCACTCATG	cluster-hsa-mir-506(11)	sf-hsa-miR-508*(1)	hsa-miR-508*
hsa-miR-509-1-3p	TGATTGGTACGCTCTGTGGGTAGA	cluster-hsa-mir-506(11)	sf-hsa-miR-509-1-3p(3)	hsa-miR-509-3p(3)
hsa-miR-509-1-5p	TACTGCAGACAGTGGCAATCATG	cluster-hsa-mir-506(11)	sf-hsa-miR-509-1-5p(3)	hsa-miR-509-5p(2)
hsa-miR-509-2-3p	TGATTGGTACGCTCTGTGGGTAGA	cluster-hsa-mir-506(11)	sf-hsa-miR-509-1-3p(3)	hsa-miR-509-3p(3)
hsa-miR-509-2-5p	TACTGCAGACAGTGGCAATCATG	cluster-hsa-mir-506(11)	sf-hsa-miR-509-1-5p(3)	hsa-miR-509-5p(2)
hsa-miR-509-3-3p	TGATTGGTACGCTCTGTGGGTAGA	cluster-hsa-mir-506(11)	sf-hsa-miR-509-1-3p(3)	hsa-miR-509-3p(3)
hsa-miR-509-3-5p	TACTGCAGACGTGGCAATCATG	cluster-hsa-mir-506(11)	sf-hsa-miR-509-1-5p(3)	hsa-miR-509-3-5p
hsa-miR-510-3p	TGATTGAAACCTCTAAGAGTGGA	cluster-hsa-mir-506(11)	sf-hsa-miR-510-3p(1)	hsa-miR-510-3p
hsa-miR-510-5p	TACTCAGGAGAGTGGCAATCACA	cluster-hsa-mir-506(11)	sf-hsa-miR-510-5p(1)	hsa-miR-510-5p
hsa-miR-511-1-3p	AATGTGTAGCAAAAGACAGAAT	cluster-hsa-mir-511-1(2)	sf-hsa-miR-511-1-3p(2)	hsa-miR-511-3p(2)
hsa-miR-511-1-5p	GTGTCTTTTGTCTGTCAGTCA	cluster-hsa-mir-511-1(2)	sf-hsa-miR-511-1-5p(2)	hsa-miR-511-5p(2)
hsa-miR-511-2-3p	AATGTGTAGCAAAAGACAGAAT	cluster-hsa-mir-511-1(2)	sf-hsa-miR-511-1-3p(2)	hsa-miR-511-3p(2)
hsa-miR-511-2-5p	GTGTCTTTTGTCTGTCAGTCA	cluster-hsa-mir-511-1(2)	sf-hsa-miR-511-1-5p(2)	hsa-miR-511-5p(2)
hsa-miR-512-1-3p	AAGTGTCTCATAGCTGAGGTC	cluster-hsa-mir-498(46)	sf-hsa-miR-512-1-3p(2)	hsa-miR-512-3p(2)
hsa-miR-512-1-5p	ACTCAGCCTTGAGGGCACTTTC	cluster-hsa-mir-498(46)	sf-hsa-miR-512-1-5p(2)	hsa-miR-512-5p(2)
hsa-miR-512-2-3p	AAGTGTCTCATAGCTGAGGTC	cluster-hsa-mir-498(46)	sf-hsa-miR-512-1-3p(2)	hsa-miR-512-3p(2)
hsa-miR-512-2-5p	ACTCAGCCTTGAGGGCACTTTC	cluster-hsa-mir-498(46)	sf-hsa-miR-512-1-5p(2)	hsa-miR-512-5p(2)
hsa-miR-513a-1-3p	TAAATTTACCTTTCTGAGAAGG	cluster-hsa-mir-506(11)	sf-hsa-miR-513a-1-3p(3)	hsa-miR-513a-3p(2)
hsa-miR-513a-1-5p	TTACAGGGAGGTGTCATTTAT	cluster-hsa-mir-506(11)	sf-hsa-miR-513a-1-5p(3)	hsa-miR-513a-5p(2)
hsa-miR-513a-2-3p	TAAATTTACCTTTCTGAGAAGG	cluster-hsa-mir-506(11)	sf-hsa-miR-513a-1-3p(3)	hsa-miR-513a-3p(2)
hsa-miR-513a-2-5p	TTACAGGGAGGTGTCATTTAT	cluster-hsa-mir-506(11)	sf-hsa-miR-513a-1-5p(3)	hsa-miR-513a-5p(2)
hsa-miR-513b	TTACAGAGGAGGTGTCATTTAT	cluster-hsa-mir-513b(1)	sf-hsa-miR-513a-1-5p(3)	hsa-miR-513b
hsa-miR-513b*	TAAATGTCACCTTTTGTAGAGG	cluster-hsa-mir-513b(1)	sf-hsa-miR-513b*(1)	hsa-miR-513b*
hsa-miR-513c-3p	AAATTTACCTTTCTGAGAAGA	cluster-hsa-mir-513c(1)	sf-hsa-miR-513a-1-3p(3)	hsa-miR-513c-3p
hsa-miR-513c-5p	TTCTCAAGGAGGTGTCGTTTAT	cluster-hsa-mir-513c(1)	sf-hsa-miR-513c-5p(1)	hsa-miR-513c-5p
hsa-miR-514a-1	ATTGACACTTCTGTGAGTAGA	cluster-hsa-mir-506(11)	sf-hsa-miR-514a-1(4)	hsa-miR-514a(3)
hsa-miR-514a-1*	TACTCTGGAGAGTGACAATCATG	cluster-hsa-mir-506(11)	sf-hsa-miR-514a-1*(3)	hsa-miR-514a*(3)
hsa-miR-514a-2	ATTGACACTTCTGTGAGTAGA	cluster-hsa-mir-506(11)	sf-hsa-miR-514a-1(4)	hsa-miR-514a(3)
hsa-miR-514a-2*	TACTCTGGAGAGTGACAATCATG	cluster-hsa-mir-506(11)	sf-hsa-miR-514a-1*(3)	hsa-miR-514a*(3)
hsa-miR-514a-3	ATTGACACTTCTGTGAGTAGA	cluster-hsa-mir-506(11)	sf-hsa-miR-514a-1(4)	hsa-miR-514a(3)
hsa-miR-514a-3*	TACTCTGGAGAGTGACAATCATG	cluster-hsa-mir-506(11)	sf-hsa-miR-514a-1*(3)	hsa-miR-514a*(3)
hsa-miR-514b-3p	ATTGACACCTCTGTGAGTGGA	cluster-hsa-mir-514b(1)	sf-hsa-miR-514a-1(4)	hsa-miR-514b-3p
hsa-miR-514b-5p	TTCTCAAGAGGGAGGCAATCAT	cluster-hsa-mir-514b(1)	sf-hsa-miR-514b-5p(1)	hsa-miR-514b-5p
hsa-miR-515-1-3p	GAGTGCCTTCTTTTGGAGCGTT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-515-3p(2)
hsa-miR-515-1-5p	TTCTCCAAAAGAAAGCACTTTCTG	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-5p(9)	hsa-miR-515-5p(2)
hsa-miR-515-2-3p	GAGTGCCTTCTTTTGGAGCGTT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-515-3p(2)
hsa-miR-515-2-5p	TTCTCCAAAAGAAAGCACTTTCTG	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-5p(9)	hsa-miR-515-5p(2)
hsa-miR-516a-1	TTCTCGAGGAAAGAACACTTT	cluster-hsa-mir-498(46)	sf-hsa-miR-516a-1(2)	hsa-miR-516a(2)
hsa-miR-516a-1*	AAAGTGCTTCCTTTCAGAGGG	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-516a*(2)
hsa-miR-516a-2	TTCTCGAGGAAAGAACACTTT	cluster-hsa-mir-498(46)	sf-hsa-miR-516a-1(2)	hsa-miR-516a(2)
hsa-miR-516a-2*	AAAGTGCTTCCTTTCAGAGGG	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-516a*(2)
hsa-miR-516b-1	ATCTGGAGGTAAGAAGCACTTTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-516b-1
hsa-miR-516b-1*	AAAGTGCTTCCTTTCAGAGGG	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-516b*(2)
hsa-miR-516b-2	ATCTGGAGGTAAGAAGCACTTT	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-516b-2
hsa-miR-516b-2*	AAAGTGCTTCCTTTCAGAGGG	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-516b*(2)
hsa-miR-517a-1	ATCGTGCATCCCTTTAGAGTGT	cluster-hsa-mir-498(46)	sf-hsa-miR-517a-1(3)	hsa-miR-517a(2)
hsa-miR-517a-1*	CCTCTAGATGGAAGCACTGTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-517a*(2)
hsa-miR-517a-2	ATCGTGCATCCCTTTAGAGTGT	cluster-hsa-mir-498(46)	sf-hsa-miR-517a-1(3)	hsa-miR-517a(2)
hsa-miR-517a-2*	CCTCTAGATGGAAGCACTGTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-517a*(2)
hsa-miR-517b	ATCGTGCATCCCTTTAGAGTGT	cluster-hsa-mir-498(46)	sf-hsa-miR-517a-1(3)	hsa-miR-517b
hsa-miR-517b*	CCTCTAGATGGAAGCACTGTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-517b*
hsa-miR-518a-1-3p	GAAAGCGCTTCCCTTTGCTGGA	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-518a-3p(2)
hsa-miR-518a-1-5p	CTGCAAGGGAAGCCCTTTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-5p(9)	hsa-miR-518a-5p(2)
hsa-miR-518a-2-3p	GAAAGCGCTTCCCTTTGCTGGA	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-518a-3p(2)
hsa-miR-518a-2-5p	CTGCAAGGGAAGCCCTTTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-5p(9)	hsa-miR-518a-5p(2)
hsa-miR-518b	CAAAGCGCTCCCTTTAGAGGT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-518b
hsa-miR-518b*	CTCCAGAGGGAAGCGCTTTCTGT	cluster-hsa-mir-498(46)	sf-hsa-miR-518b*(1)	hsa-miR-518b*
hsa-miR-518c	CAAAGCGCTTCTCTTTAGAGTGT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-518c

Supplementary Table S4: MiRNA definitions (from supplemental reference #3)

miR name	Predominant miR sequence	Genomic cluster	Sequence family	Merged mature miR name
hsa-miR-518c*	CTCTGGAGGGAAGCACTTTCTGTT	cluster-hsa-mir-498(46)	sf-hsa-miR-518c*(1)	hsa-miR-518c*
hsa-miR-518d	CAAAGCGCTTCCCTTTGGAGCG	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-518d
hsa-miR-518d*	CTCTAGAGGGAAGCACTTTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-518d*
hsa-miR-518e-3p	AAAGCGCTTCCCTTCAGAGTGT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-518e-3p
hsa-miR-518e-5p	CTCTAGAGGGAAGCGCTTTCTG	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-518e-5p
hsa-miR-518f	GAAAGCGCTTCTCTTTAGAGGA	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-518f
hsa-miR-518f*	CTCTAGAGGGAAGCACTTTCTC	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-518f*
hsa-miR-519a-1	AAAGTGCATCCTTTTAGAGTGT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-519a(2)
hsa-miR-519a-1*	CTCTAGAGGGAAGCGCTTTCTG	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-519a-1*
hsa-miR-519a-2	AAAGTGCATCCTTTTAGAGTGT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-519a(2)
hsa-miR-519a-2*	CCTCTACAGGGAAGCGCTTTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-520b-5p(2)	hsa-miR-519a-2*
hsa-miR-519b	AAAGTGCATCCTTTTAGAGGTT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-519b
hsa-miR-519b*	CTCTAGAGGGAAGCGCTTTCTG	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-519b*
hsa-miR-519c	AAAGTGCATCCTTTTAGAGGAT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-519c
hsa-miR-519c*	CTCTAGAGGGAAGCGCTTTCTG	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-519c*
hsa-miR-519d	CAAAGTGCCTCCCTTTAGAGTGT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-519d
hsa-miR-519d*	CCTCCAAAGGGAAGCGCTTTCTG	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-5p(9)	hsa-miR-519d*
hsa-miR-519e-3p	AAGTGCCTCCTTTTAGAGTGT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-519e-3p
hsa-miR-519e-5p	TTCTCCAAAGGGAGCACTTTC	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-5p(9)	hsa-miR-519e-5p
hsa-miR-520a	CTCCAGAGGGAAGTACTTTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-520a
hsa-miR-520a*	AAAGTGCTTCCCTTTGGAGTGT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-520a*
hsa-miR-520b-3p	AAAGTGCTTCCCTTTAGAGGGT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-520b-3p
hsa-miR-520b-5p	CCTCTACAGGGAAGCGCTTTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-520b-5p(2)	hsa-miR-520b-5p
hsa-miR-520c	AAAGTGCTTCCCTTTAGAGGGT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-520c
hsa-miR-520c*	CTCTAGAGGGAAGCACTTTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-520c*
hsa-miR-520d-3p	AAAGTGCTTCCCTTTGGTGGT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-520d-3p
hsa-miR-520d-5p	CTACAAAGGGAAGCCCTTTC	cluster-hsa-mir-498(46)	sf-hsa-miR-520d-5p(2)	hsa-miR-520d-5p
hsa-miR-520e	AAAGTGCTTCCCTTTTAGAGGGT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-520e
hsa-miR-520e*	CTCAAGATGGAAGCAGTTTCTG	cluster-hsa-mir-498(46)	sf-hsa-miR-373*(2)	hsa-miR-520e*
hsa-miR-520f	CAAGTGCTTCCCTTTTAGAGGGT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-520f
hsa-miR-520f*	CCTCTAAAGGGAAGCGCTTTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-517*(1)	hsa-miR-520f*
hsa-miR-520g	ACAAAGTGCTTCCCTTTAGAGTGT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-520g
hsa-miR-520g*	CCTCTAGAGGAAGCACTTTCTGTT	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-520g*
hsa-miR-520h	AAAGTGCTTCCCTTTTAGAGTGT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-520h
hsa-miR-520h*	CCTCTAGAGGAAGCACTTTCTGTT	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-520h*
hsa-miR-521-1	AACGCACCTTCCCTTTAGAGTGT	cluster-hsa-mir-498(46)	sf-hsa-miR-521-1(2)	hsa-miR-521(2)
hsa-miR-521-1*	CCTCCAAAGGGAAGAACCTTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-5p(9)	hsa-miR-521-1*
hsa-miR-521-2	AACGCACCTTCCCTTTAGAGTGT	cluster-hsa-mir-498(46)	sf-hsa-miR-521-1(2)	hsa-miR-521(2)
hsa-miR-521-2*	TCTCCAAAGGGAAGAATTTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-5p(9)	hsa-miR-521-2*
hsa-miR-522	AAAATGGTTCCCTTTAGAGTGT	cluster-hsa-mir-498(46)	sf-hsa-miR-522(1)	hsa-miR-522
hsa-miR-522*	CTCTAGAGGGAAGCGCTTTCTG	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-522*
hsa-miR-523-3p	AACGCGCTTCCCTATAGAGGGT	cluster-hsa-mir-498(46)	sf-hsa-miR-523-3p(1)	hsa-miR-523-3p
hsa-miR-523-5p	CTCTAGAGGGAAGCGCTTTCTG	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-523-5p
hsa-miR-524	CTACAAAGGGAAGCACTTTCTC	cluster-hsa-mir-498(46)	sf-hsa-miR-520d-5p(2)	hsa-miR-524
hsa-miR-524*	GAAAGCGCTTCCCTTTGGAGTGT	cluster-hsa-mir-498(46)	sf-hsa-miR-525-3p(2)	hsa-miR-524*
hsa-miR-525-3p	GAAGGCGCTTCCCTTTAGAGCG	cluster-hsa-mir-498(46)	sf-hsa-miR-525-3p(2)	hsa-miR-525-3p
hsa-miR-525-5p	CTCCAGAGGGATGCACTTTCTC	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-525-5p
hsa-miR-526a-1-3p	GAAAGCGCTTCCCTTTAGAGGA	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-526a-1-3p
hsa-miR-526a-1-5p	CTCTAGAGGGAAGCACTTTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-526a-5p(2)
hsa-miR-526a-2-3p	GAACATGCATCCTTTAGAGGG	cluster-hsa-mir-498(46)	sf-hsa-miR-526a-2-3p(1)	hsa-miR-526a-2-3p
hsa-miR-526a-2-5p	CTCTAGAGGGAAGCACTTTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-516b-1(20)	hsa-miR-526a-5p(2)
hsa-miR-526b-3p	GAAAGTGCTTCCCTTTAGAGGC	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-526b-3p
hsa-miR-526b-5p	CTCTTGAGGGAAGCACTTTCTGT	cluster-hsa-mir-498(46)	sf-hsa-miR-516a(1)	hsa-miR-526b-5p
hsa-miR-527-3p	AAAGTGCTTCCCTTTGGTGAAT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-3p(30)	hsa-miR-527-3p
hsa-miR-527-5p	CTGCAAGGGAAGCCCTTTCT	cluster-hsa-mir-498(46)	sf-hsa-miR-515-1-5p(9)	hsa-miR-527-5p
hsa-miR-532-3p	CCTCCCACACCCAAGGCTTGCA	cluster-hsa-mir-188(8)	sf-hsa-miR-532-3p(2)	hsa-miR-532-3p
hsa-miR-532-5p	CATGCCTTGAGGTAGGACCGT	cluster-hsa-mir-188(8)	sf-hsa-miR-532(1)	hsa-miR-532-5p
hsa-miR-539	ATCATACAAGGACAATTTCTTT	cluster-hsa-mir-134(41)	sf-hsa-miR-539(1)	hsa-miR-539
hsa-miR-539*	GGAGAAATTATCCTTGGTGTT	cluster-hsa-mir-134(41)	sf-hsa-miR-539*(1)	hsa-miR-539*
hsa-miR-541-3p	TGGTGGGCACAGAATCTGGACT	cluster-hsa-mir-134(41)	sf-hsa-miR-541-3p(1)	hsa-miR-541-3p
hsa-miR-541-5p	AAAGGATTCTGCTGTGCGTCCCACT	cluster-hsa-mir-134(41)	sf-hsa-miR-541-5p(1)	hsa-miR-541-5p
hsa-miR-542	TGTGACAGATTGATAACTGAAA	cluster-hsa-mir-450a-1(4)	sf-hsa-miR-542(1)	hsa-miR-542
hsa-miR-542*	TGGGGATCATCATGTACAGA	cluster-hsa-mir-450a-1(4)	sf-hsa-miR-542*(1)	hsa-miR-542*
hsa-miR-543	AAACATTGCGGGTGCACTTCTT	cluster-hsa-mir-134(41)	sf-hsa-miR-543(1)	hsa-miR-543
hsa-miR-543*	AAGTTGCCCGTGTCTTTTTCG	cluster-hsa-mir-134(41)	sf-hsa-miR-495*(2)	hsa-miR-543*
hsa-miR-544-3p	ATTCTGCATTTTAGCAAGTT	cluster-hsa-mir-134(41)	sf-hsa-miR-544-3p(1)	hsa-miR-544-3p

Supplementary Table S4: MiRNA definitions (from supplemental reference #3)

miR name	Predominant miR sequence	Genomic cluster	Sequence family	Merged mature miR name
hsa-miR-544-5p	TCTTGTTAAAAAGCAGATTCT	cluster-hsa-mir-134(41)	sf-hsa-miR-544-5p(1)	hsa-miR-544-5p
hsa-miR-545-3p	TCAGCAAACATTTATTGTGTGC	cluster-hsa-mir-374a(4)	sf-hsa-miR-545-3p(3)	hsa-miR-545-3p
hsa-miR-545-5p	TCAGTAAATGTTTATTAGATGA	cluster-hsa-mir-374a(4)	sf-hsa-miR-545-3p(3)	hsa-miR-545-5p
hsa-miR-549-3p	GTGACAACATATGGATGAGCTCT	cluster-hsa-mir-549(1)	sf-hsa-miR-549-3p(1)	hsa-miR-549-3p
hsa-miR-549-5p	AGCTCATCCATAGTTGCTCACTG	cluster-hsa-mir-549(1)	sf-hsa-miR-549-5p(1)	hsa-miR-549-5p
hsa-miR-550-1-3p	TGTCTTACTCCCTCAGGCACAT	cluster-hsa-mir-550-1(2)	sf-hsa-miR-550-1-3p(2)	hsa-miR-550-3p(2)
hsa-miR-550-1-5p	AGTGCCTGAGGGAGTAAGAGC	cluster-hsa-mir-550-1(2)	sf-hsa-miR-550-1-5p(2)	hsa-miR-550-5p(2)
hsa-miR-550-2-3p	TGTCTTACTCCCTCAGGCACAT	cluster-hsa-mir-550-1(2)	sf-hsa-miR-550-1-3p(2)	hsa-miR-550-3p(2)
hsa-miR-550-2-5p	AGTGCCTGAGGGAGTAAGAGC	cluster-hsa-mir-550-1(2)	sf-hsa-miR-550-1-5p(2)	hsa-miR-550-5p(2)
hsa-miR-551a	GCGACCCCATCTTGGTTTCC	cluster-hsa-mir-551a(1)	sf-hsa-miR-551a(2)	hsa-miR-551a
hsa-miR-551a*	GACTGCCGGGTGACCCTG	cluster-hsa-mir-551a(1)	sf-hsa-miR-551a*(1)	hsa-miR-551a*
hsa-miR-551b	GCGACCCATACCTGGTTTCAG	cluster-hsa-mir-551b(1)	sf-hsa-miR-551a(2)	hsa-miR-551b
hsa-miR-551b*	GAAATCAAGCGTGGGTGAGACCT	cluster-hsa-mir-551b(1)	sf-hsa-miR-551b*(1)	hsa-miR-551b*
hsa-miR-552-3p	AACAGGTGACTGGTTAGACAA	cluster-hsa-mir-552(1)	sf-hsa-miR-552-3p(1)	hsa-miR-552-3p
hsa-miR-552-5p	TGTTTAACCTTTTGCCTGTTGG	cluster-hsa-mir-552(1)	sf-hsa-miR-552-5p(1)	hsa-miR-552-5p
hsa-miR-556-3p	ATATTACCATTAGCTCATCTT	cluster-hsa-mir-556(1)	sf-hsa-miR-556-3p(1)	hsa-miR-556-3p
hsa-miR-556-5p	GATGAGCTCATTGTAATATGA	cluster-hsa-mir-556(1)	sf-hsa-miR-556-5p(1)	hsa-miR-556-5p
hsa-miR-559-3p	TTTGGTGCAATTTACTTTAGG	cluster-hsa-mir-559(1)	sf-hsa-miR-559(1)	hsa-miR-559-3p
hsa-miR-559-5p	TAAAGTAAATATGCACCAAAAT	cluster-hsa-mir-559(1)	sf-hsa-miR-559-5p(1)	hsa-miR-559-5p
hsa-miR-561	ATCAAGGATCTTAAACCTTGCC	cluster-hsa-mir-561(1)	sf-hsa-miR-561(1)	hsa-miR-561
hsa-miR-561*	CAAAGTTTAAGATCCTTGAAGT	cluster-hsa-mir-561(1)	sf-hsa-miR-561*(1)	hsa-miR-561*
hsa-miR-570-3p	CGAAAAACGCAATTACCTTTGC	cluster-hsa-mir-570(1)	sf-hsa-miR-570-3p(1)	hsa-miR-570-3p
hsa-miR-570-5p	AAAGGTAATTGCAGTTTTTCCC	cluster-hsa-mir-570(1)	sf-hsa-miR-548c(1)	hsa-miR-570-5p
hsa-miR-574-3p	CACGCTCATGCACACACCCACA	cluster-hsa-mir-574(1)	sf-hsa-miR-574-3p(1)	hsa-miR-574-3p
hsa-miR-574-5p	TGAGTGTGTGTGTGTGAGTGTGT	cluster-hsa-mir-574(1)	sf-hsa-miR-574-5p(1)	hsa-miR-574-5p
hsa-miR-576-3p	AAGATGTGGAAAAATTGGAATCC	cluster-hsa-mir-576(1)	sf-hsa-miR-576-3p(1)	hsa-miR-576-3p
hsa-miR-576-5p	ATTCTAATTTCTCCACGTCTTT	cluster-hsa-mir-576(1)	sf-hsa-miR-576-5p(1)	hsa-miR-576-5p
hsa-miR-577	GTAGATAAAATATTGGTACCTG	cluster-hsa-mir-577(1)	sf-hsa-miR-577(1)	hsa-miR-577
hsa-miR-577*	GGTTTCAATACTTTATCTGCT	cluster-hsa-mir-577(1)	sf-hsa-miR-577*(1)	hsa-miR-577*
hsa-miR-579-3p	TTCATTTTGGTATAAACCGCGATT	cluster-hsa-mir-579(1)	sf-hsa-miR-579-3p(1)	hsa-miR-579-3p
hsa-miR-579-5p	ATCGCGGTTTGTGCCAGATGAC	cluster-hsa-mir-579(1)	sf-hsa-miR-579-5p(1)	hsa-miR-579-5p
hsa-miR-580	TTGAGAATGATGAATCATTAGG	cluster-hsa-mir-580(1)	sf-hsa-miR-580(1)	hsa-miR-580
hsa-miR-580*	TAATGATTCATCAGACTCAGAT	cluster-hsa-mir-580(1)	sf-hsa-miR-580*(1)	hsa-miR-580*
hsa-miR-581	TCTGTGTCTCTCTAGATCAGT	cluster-hsa-mir-581(1)	sf-hsa-miR-581(1)	hsa-miR-581
hsa-miR-581*	TGTGATCTAAAGAACACAAAGA	cluster-hsa-mir-581(1)	sf-hsa-miR-581*(1)	hsa-miR-581*
hsa-miR-582	TTACAGTTGTTCAACCACTTACT	cluster-hsa-mir-582(1)	sf-hsa-miR-582(1)	hsa-miR-582
hsa-miR-582*	TAACCTGGTTGAACAACCTGAAC	cluster-hsa-mir-582(1)	sf-hsa-miR-582*(1)	hsa-miR-582*
hsa-miR-584	TTATGGTTTGCCTGGGACTGA	cluster-hsa-mir-584(1)	sf-hsa-miR-584(1)	hsa-miR-584
hsa-miR-584*	TCAGTTCACAGGCCAACCAAGCT	cluster-hsa-mir-584(1)	sf-hsa-miR-584*(1)	hsa-miR-584*
hsa-miR-585	TGGGCGTATCTGTATGCTAGGG	cluster-hsa-mir-218-1(3)	sf-hsa-miR-585(1)	hsa-miR-585
hsa-miR-585*	CTAGCACACAGATACGCCCAGA	cluster-hsa-mir-218-1(3)	sf-hsa-miR-585*(1)	hsa-miR-585*
hsa-miR-588	TTGGCCACAAATGGGTTAGAAC	cluster-hsa-mir-588(1)	sf-hsa-miR-588(1)	hsa-miR-588
hsa-miR-588*	TTCTTACCCACCATGGCCAAAA	cluster-hsa-mir-588(1)	sf-hsa-miR-588*(1)	hsa-miR-588*
hsa-miR-589	TGAGAACACAGTCTGCTCTGA	cluster-hsa-mir-589(1)	sf-hsa-miR-589(1)	hsa-miR-589
hsa-miR-589*	TCAGAACAAATGCCGGTTCCAGAA	cluster-hsa-mir-589(1)	sf-hsa-miR-589*(1)	hsa-miR-589*
hsa-miR-590-3p	TAATTTTATGTATAAGCTAGT	cluster-hsa-mir-590(1)	sf-hsa-miR-590-3p(1)	hsa-miR-590-3p
hsa-miR-590-5p	GAGCTTATTCATAAAAGTGCAG	cluster-hsa-mir-590(1)	sf-hsa-miR-590-5p(1)	hsa-miR-590-5p
hsa-miR-592	TTGTGTCAATATGCGATGATGT	cluster-hsa-mir-592(1)	sf-hsa-miR-592(1)	hsa-miR-592
hsa-miR-592*	TCATCACGTGGTGACGCAACAT	cluster-hsa-mir-592(1)	sf-hsa-miR-592*(1)	hsa-miR-592*
hsa-miR-597	TGTGTCACATCGATGACCCTGT	cluster-hsa-mir-597(1)	sf-hsa-miR-597(1)	hsa-miR-597
hsa-miR-597*	AGTGGTTCTCTTGTGGCTCAAG	cluster-hsa-mir-597(1)	sf-hsa-miR-597*(1)	hsa-miR-597*
hsa-miR-598	TACGTCATCGTTGTCATCGTCA	cluster-hsa-mir-598(1)	sf-hsa-miR-598(1)	hsa-miR-598
hsa-miR-598*	GCGGTGATCCCGATGGTGTGAGC	cluster-hsa-mir-598(1)	sf-hsa-miR-598*(1)	hsa-miR-598*
hsa-miR-599	TTTGATAAGCTGACATGGGACA	cluster-hsa-mir-599(2)	sf-hsa-miR-599(1)	hsa-miR-599
hsa-miR-599*	TTTGTGTGTCAGTTTATCAAAACC	cluster-hsa-mir-599(2)	sf-hsa-miR-599*(1)	hsa-miR-599*
hsa-miR-605-3p	AGAAGGCACTATGAGATTTAGA	cluster-hsa-mir-605(1)	sf-hsa-miR-605-3p(1)	hsa-miR-605-3p
hsa-miR-605-5p	TAAATCCCATGGTGCCCTTCTCC	cluster-hsa-mir-605(1)	sf-hsa-miR-605-5p(1)	hsa-miR-605-5p
hsa-miR-610	TGAGCTAAATGTGTGCTGGGA	cluster-hsa-mir-610(1)	sf-hsa-miR-610(2)	hsa-miR-610
hsa-miR-610*	CCAGCACACATTTAGCTCACA	cluster-hsa-mir-610(1)	sf-hsa-miR-610(2)	hsa-miR-610*
hsa-miR-615-3p	TCCGAGCCTGGGTCTCCCTCT	cluster-hsa-mir-196a-1(3)	sf-hsa-miR-615-3p(1)	hsa-miR-615-3p
hsa-miR-615-5p	GGGGGTCCCCGGTGCTCGGATC	cluster-hsa-mir-196a-1(3)	sf-hsa-miR-615-5p(1)	hsa-miR-615-5p
hsa-miR-616-3p	AAGTCATTGGAGGGTTTGAGC	cluster-hsa-mir-616(1)	sf-hsa-miR-616-3p(1)	hsa-miR-616-3p
hsa-miR-616-5p	ACTAAAACCCCTTCAGTGACTT	cluster-hsa-mir-616(1)	sf-hsa-miR-616-5p(1)	hsa-miR-616-5p
hsa-miR-618	AAACTCTACTGTCTCTCTGAGT	cluster-hsa-mir-618(1)	sf-hsa-miR-618(1)	hsa-miR-618
hsa-miR-624-3p	CACAAGGTATTGGTATTACCT	cluster-hsa-mir-624(1)	sf-hsa-miR-624-3p(1)	hsa-miR-624-3p
hsa-miR-624-5p	TAGTACCAGTACCTTGTGTTC	cluster-hsa-mir-624(1)	sf-hsa-miR-624-5p(1)	hsa-miR-624-5p

Supplementary Table S4: MiRNA definitions (from supplemental reference #3)

miR name	Predominant miR sequence	Genomic cluster	Sequence family	Merged mature miR name
hsa-miR-625-3p	GACTATAGAACTTTCCCCCTCA	cluster-hsa-mir-625(1)	sf-hsa-miR-625-3p(1)	hsa-miR-625-3p
hsa-miR-625-5p	AGGGGGAAAGTTCTATAGTCCT	cluster-hsa-mir-625(1)	sf-hsa-miR-625-5p(1)	hsa-miR-625-5p
hsa-miR-627-3p	CTCTTTTCTTTGAGACTCACT	cluster-hsa-mir-627(1)	sf-hsa-miR-627-3p(1)	hsa-miR-627-3p
hsa-miR-627-5p	GTGAGTCTCTAAGAAAAGAGGA	cluster-hsa-mir-627(1)	sf-hsa-miR-627-5p(1)	hsa-miR-627-5p
hsa-miR-628	ATGCTGACATATTTACTAGAGG	cluster-hsa-mir-628(1)	sf-hsa-miR-628(1)	hsa-miR-628
hsa-miR-628*	TTCTAGTAAGAGTGGCAGTCGA	cluster-hsa-mir-628(1)	sf-hsa-miR-628*(1)	hsa-miR-628*
hsa-miR-629	TGGGTTTACGTTGGGAGAACTT	cluster-hsa-mir-629(1)	sf-hsa-miR-629(1)	hsa-miR-629
hsa-miR-629*	GTTCTCCCAACGTAAGCCCAGC	cluster-hsa-mir-629(1)	sf-hsa-miR-629*(1)	hsa-miR-629*
hsa-miR-641	AAAGACATAGGATAGAGTCACCT	cluster-hsa-mir-641(1)	sf-hsa-miR-641(1)	hsa-miR-641
hsa-miR-641*	TGACTGTCTCTATGTCTTTCT	cluster-hsa-mir-641(1)	sf-hsa-miR-641*(1)	hsa-miR-641*
hsa-miR-642-3p	AGACACATTTGGAGAGGGAAC	cluster-hsa-mir-642(1)	sf-hsa-miR-642-3p(1)	hsa-miR-642-3p
hsa-miR-642-5p	GTCCCTCTCCAAATGTGTCTTG	cluster-hsa-mir-642(1)	sf-hsa-miR-642-5p(1)	hsa-miR-642-5p
hsa-miR-643	ACTTGTATGCTAGCTCAGGTAG	cluster-hsa-mir-643(1)	sf-hsa-miR-643(1)	hsa-miR-643
hsa-miR-643*	ACCTGAGCTAGAATAACAAGTAGT	cluster-hsa-mir-643(1)	sf-hsa-miR-643*(1)	hsa-miR-643*
hsa-miR-651	TTTAGGATAAGCTTGACTTTTG	cluster-hsa-mir-651(1)	sf-hsa-miR-651(1)	hsa-miR-651
hsa-miR-651*	AAAGGAAAGTGATCCTAAAAG	cluster-hsa-mir-651(1)	sf-hsa-miR-651*(1)	hsa-miR-651*
hsa-miR-652	AATGGCGCCACTAGGGTTGTG	cluster-hsa-mir-652(1)	sf-hsa-miR-652(1)	hsa-miR-652
hsa-miR-652*	ACAACCCTAGGAGAGGGTGCCATT	cluster-hsa-mir-652(1)	sf-hsa-miR-652*(1)	hsa-miR-652*
hsa-miR-653-3p	TTCCTGGAGTTTGTTTCAAT	cluster-hsa-mir-489(2)	sf-hsa-miR-653-3p(1)	hsa-miR-653-3p
hsa-miR-653-5p	TTGAAACAATCTCTACTGAACC	cluster-hsa-mir-489(2)	sf-hsa-miR-653-5p(1)	hsa-miR-653-5p
hsa-miR-654	TATGTCTGCTGACCATCACC	cluster-hsa-mir-134(41)	sf-hsa-miR-654(1)	hsa-miR-654
hsa-miR-654*	TGGTGGCCGCGCAGAACATGTGC	cluster-hsa-mir-134(41)	sf-hsa-miR-654*(1)	hsa-miR-654*
hsa-miR-655	ATAATACATGGTTAACCTCTTT	cluster-hsa-mir-134(41)	sf-hsa-miR-369(2)	hsa-miR-655
hsa-miR-655*	AGAGGTTATCCGTGTTATGTTT	cluster-hsa-mir-134(41)	sf-hsa-miR-154-5p(7)	hsa-miR-655*
hsa-miR-656	AATATTATACAGTCAACCTCT	cluster-hsa-mir-134(41)	sf-hsa-miR-656(1)	hsa-miR-656
hsa-miR-656*	AGGTTGCGCTGTGAGGTGTTT	cluster-hsa-mir-134(41)	sf-hsa-miR-154-5p(7)	hsa-miR-656*
hsa-miR-659	AGGACCTTCCCTGAACCAAGGA	cluster-hsa-mir-659(1)	sf-hsa-miR-659(1)	hsa-miR-659
hsa-miR-659*	CTTGGTTTCAGGGAGGGTCCCCA	cluster-hsa-mir-659(1)	sf-hsa-miR-659*(1)	hsa-miR-659*
hsa-miR-660	TACCCATTGCATATCGGAGTTGT	cluster-hsa-mir-188(8)	sf-hsa-miR-660(1)	hsa-miR-660
hsa-miR-660*	ACCTCCTGTGTGCGATGGATT	cluster-hsa-mir-188(8)	sf-hsa-miR-660*(1)	hsa-miR-660*
hsa-miR-665	ACCAGGAGGCTGAGGCCCTCA	cluster-hsa-mir-127(8)	sf-hsa-miR-665(1)	hsa-miR-665
hsa-miR-665*	AGGGGTCTCTGCCTCTACCCA	cluster-hsa-mir-127(8)	sf-hsa-miR-665*(1)	hsa-miR-665*
hsa-miR-668	GTCACTCGGCTCGGCCCACT	cluster-hsa-mir-134(41)	sf-hsa-miR-668(1)	hsa-miR-668
hsa-miR-668*	GTAAGTGCCTCGGCTCGGCTGAGC	cluster-hsa-mir-134(41)	sf-hsa-miR-668*(1)	hsa-miR-668*
hsa-miR-670	TTTCTCATATTCATTAGGAGT	cluster-hsa-mir-670(1)	sf-hsa-miR-670(1)	hsa-miR-670
hsa-miR-670*	GTCCCTGAGTGATGTGTTGA	cluster-hsa-mir-670(1)	sf-hsa-miR-670*(1)	hsa-miR-670*
hsa-miR-671	AGGAAGCCCTGGAGGGGCTGGAGC	cluster-hsa-mir-671(1)	sf-hsa-miR-671(1)	hsa-miR-671
hsa-miR-671*	TCCGGTTCTCAGGGCTCCACC	cluster-hsa-mir-671(1)	sf-hsa-miR-671-3p(1)	hsa-miR-671*
hsa-miR-675	CTGTATGCCCTCACCGCTCAGC	cluster-hsa-mir-675(1)	sf-hsa-miR-675(1)	hsa-miR-675
hsa-miR-675*	TGGTGCAGAGAGGGCCACAGTG	cluster-hsa-mir-675(1)	sf-hsa-miR-675*(1)	hsa-miR-675*
hsa-miR-676	CTGTCTTAAGGTTGTTGAGTT	cluster-hsa-mir-676(1)	sf-hsa-miR-676(1)	hsa-miR-676
hsa-miR-676*	TCTTCAACCTCAGGACTTGCA	cluster-hsa-mir-676(1)	sf-hsa-miR-676*(1)	hsa-miR-676*
hsa-miR-7-1	TGGAAGACTAGTGATTTTGTGTT	cluster-hsa-mir-7-1(3)	sf-hsa-miR-7-1(3)	hsa-miR-7(3)
hsa-miR-7-1*	CAACAATCACAGTCTGCCATA	cluster-hsa-mir-7-1(3)	sf-hsa-miR-7-1*(2)	hsa-miR-7-1*
hsa-miR-7-2	TGGAAGACTAGTGATTTTGTGTT	cluster-hsa-mir-7-1(3)	sf-hsa-miR-7-1(3)	hsa-miR-7(3)
hsa-miR-7-2*	ACAACAATCCAGTCTACCT	cluster-hsa-mir-7-1(3)	sf-hsa-miR-7-1*(2)	hsa-miR-7-2*
hsa-miR-7-3	TGGAAGACTAGTGATTTTGTGTT	cluster-hsa-mir-7-1(3)	sf-hsa-miR-7-1(3)	hsa-miR-7(3)
hsa-miR-7-3*	CAACAAGTCACAGCCGGCCTCA	cluster-hsa-mir-7-1(3)	sf-hsa-miR-7-1*(1)	hsa-miR-7-3*
hsa-miR-708	AAGGAGCTTCAATCTAGCTGG	cluster-hsa-mir-708(1)	sf-hsa-miR-28-5p(2)	hsa-miR-708
hsa-miR-708*	AACTAGACTGTGAGCTTCTAGA	cluster-hsa-mir-708(1)	sf-hsa-miR-708*(1)	hsa-miR-708*
hsa-miR-744	TGCGGGGCTAGGGCTAACAGCA	cluster-hsa-mir-744(1)	sf-hsa-miR-744(1)	hsa-miR-744
hsa-miR-744*	CTGTTGCCACTAACCTCAACC	cluster-hsa-mir-744(1)	sf-hsa-miR-744*(1)	hsa-miR-744*
hsa-miR-758	TTTGTGACCTGGTCCACTAAC	cluster-hsa-mir-134(41)	sf-hsa-miR-758(1)	hsa-miR-758
hsa-miR-758*	ATGGTTGACCAAGAGACACACG	cluster-hsa-mir-134(41)	sf-hsa-miR-380-5p(2)	hsa-miR-758*
hsa-miR-760	CGGCTCTGGGTCTGTGGGA	cluster-hsa-mir-760(1)	sf-hsa-miR-760(1)	hsa-miR-760
hsa-miR-760*	CCCCTCAGTCCACCAGAGCCCGGA	cluster-hsa-mir-760(1)	sf-hsa-miR-760*(1)	hsa-miR-760*
hsa-miR-766	ACTCCAGCCCCACAGCCTCAGC	cluster-hsa-mir-766(1)	sf-hsa-miR-766(1)	hsa-miR-766
hsa-miR-766*	AGGAGGAATTGGTCTGGTCTTT	cluster-hsa-mir-766(1)	sf-hsa-miR-766*(1)	hsa-miR-766*
hsa-miR-767	TGCACCTGTTGTCTGAGCATGC	cluster-hsa-mir-105-1(3)	sf-hsa-miR-767(1)	hsa-miR-767
hsa-miR-767*	CTGCTCATACCCCATGGTTTCT	cluster-hsa-mir-105-1(3)	sf-hsa-miR-767*(1)	hsa-miR-767*
hsa-miR-769	TGAGACCTCTGGGTCTGAGCT	cluster-hsa-mir-769(1)	sf-hsa-miR-769(1)	hsa-miR-769
hsa-miR-769*	TGGGATCTCCGGGGTCTTGGTT	cluster-hsa-mir-769(1)	sf-hsa-miR-769*(1)	hsa-miR-769*
hsa-miR-770-3p	GGGCTGATGTGGTGTGGGGC	cluster-hsa-mir-770(1)	sf-hsa-miR-770-3p(1)	hsa-miR-770-3p
hsa-miR-770-5p	TCCAGTACCACGTGTGAGGGC	cluster-hsa-mir-770(1)	sf-hsa-miR-770-5p(1)	hsa-miR-770-5p
hsa-miR-873	GCAGGAACCTGTGAGTCTCCT	cluster-hsa-mir-873(2)	sf-hsa-miR-873(2)	hsa-miR-873
hsa-miR-873*	GAGACTGATGAGTCCCCGGA	cluster-hsa-mir-873(2)	sf-hsa-miR-873(2)	hsa-miR-873*

Supplementary Table S4: MiRNA definitions (from supplemental reference #3)

miR name	Predominant miR sequence	Genomic cluster	Sequence family	Merged mature miR name
hsa-miR-874	CTGCCCTGGCCCCGAGGGACCGA	cluster-hsa-mir-874(1)	sf-hsa-miR-874(1)	hsa-miR-874
hsa-miR-874*	CGGCCCCACGCACCAGGGTAAGA	cluster-hsa-mir-874(1)	sf-hsa-miR-874*(1)	hsa-miR-874*
hsa-miR-875-3p	CCTGGAACACTGAGGTTGTG	cluster-hsa-mir-599(2)	sf-hsa-miR-875-3p(1)	hsa-miR-875-3p
hsa-miR-875-5p	TATACCTCAGTTTTATCAGGTG	cluster-hsa-mir-599(2)	sf-hsa-miR-875-5p(1)	hsa-miR-875-5p
hsa-miR-876-3p	TGGTGGTTTACAAAGTAATTCA	cluster-hsa-mir-873(1)	sf-hsa-miR-876-3p(1)	hsa-miR-876-3p
hsa-miR-876-5p	TGGATTTCTTTGTGAATCACC	cluster-hsa-mir-873(2)	sf-hsa-miR-876-5p(1)	hsa-miR-876-5p
hsa-miR-885	TCCATTACACTACCCTGCCTCT	cluster-hsa-mir-885(1)	sf-hsa-miR-885(1)	hsa-miR-885
hsa-miR-885*	AGGCAGCGGGGTGTAGTGGAT	cluster-hsa-mir-885(1)	sf-hsa-miR-885*(1)	hsa-miR-885*
hsa-miR-887	TGGAACGGGCGCCATCCCGAGGCT	cluster-hsa-mir-887(1)	sf-hsa-miR-887(1)	hsa-miR-887
hsa-miR-887*	TCCTTGGGAGCCCTGTTGACT	cluster-hsa-mir-887(1)	sf-hsa-miR-887*(1)	hsa-miR-887*
hsa-miR-888	TACTCAAAAAGCTGTCACTCA	cluster-hsa-mir-888(6)	sf-hsa-miR-888(3)	hsa-miR-888
hsa-miR-888*	TGACTGACACCTCTTTGGGTGA	cluster-hsa-mir-888(6)	sf-hsa-miR-888*(1)	hsa-miR-888*
hsa-miR-889	TTAATATCGGACAACCATTTG	cluster-hsa-mir-134(41)	sf-hsa-miR-889(1)	hsa-miR-889
hsa-miR-889*	AATGGCTGTCCTAGTATGGTC	cluster-hsa-mir-134(41)	sf-hsa-miR-889*(1)	hsa-miR-889*
hsa-miR-890-3p	AACTATTCCTTTCTGAGTAGA	cluster-hsa-mir-888(6)	sf-hsa-miR-890-3p(1)	hsa-miR-890-3p
hsa-miR-890-5p	TACTTGGAAAGGCATCAGTTG	cluster-hsa-mir-888(6)	sf-hsa-miR-890-5p(1)	hsa-miR-890-5p
hsa-miR-891a	TGCAACGAACCTGAGCCACTGA	cluster-hsa-mir-888(6)	sf-hsa-miR-891a(1)	hsa-miR-891a
hsa-miR-891a*	AGTGGCACATGTTTGTGTGAG	cluster-hsa-mir-888(6)	sf-hsa-miR-891a*(2)	hsa-miR-891a*
hsa-miR-891b	TGCAACTTACCTGAGTCATTGA	cluster-hsa-mir-888(6)	sf-hsa-miR-891b(1)	hsa-miR-891b
hsa-miR-891b*	AATGGCACATGTTTGTGTAG	cluster-hsa-mir-888(6)	sf-hsa-miR-891a*(2)	hsa-miR-891b*
hsa-miR-892a	CACGTGTCTCTTCTGCGTAGA	cluster-hsa-mir-888(6)	sf-hsa-miR-892a(1)	hsa-miR-892a
hsa-miR-892a*	TACTCAGAAAGGTGCCAGTCA	cluster-hsa-mir-888(6)	sf-hsa-miR-888(3)	hsa-miR-892a*
hsa-miR-892b	CACGTGGCTCCTTCTGGGTAGA	cluster-hsa-mir-888(6)	sf-hsa-miR-892b(1)	hsa-miR-892b
hsa-miR-892b*	TACTCAGAAAGGTGCCATTATG	cluster-hsa-mir-888(6)	sf-hsa-miR-888(3)	hsa-miR-892b*
hsa-miR-9-1	TCTTTGGTTATCTAGCTGTATGA	cluster-hsa-mir-9-1(3)	sf-hsa-miR-9-1(3)	hsa-miR-9(3)
hsa-miR-9-1*	ATAAAGCTAGATAACCGAAAGT	cluster-hsa-mir-9-1(3)	sf-hsa-miR-9-1*(3)	hsa-miR-9*(3)
hsa-miR-9-2	TCTTTGGTTATCTAGCTGTATGA	cluster-hsa-mir-9-1(3)	sf-hsa-miR-9-1(3)	hsa-miR-9(3)
hsa-miR-9-2*	ATAAAGCTAGATAACCGAAAGT	cluster-hsa-mir-9-1(3)	sf-hsa-miR-9-1*(3)	hsa-miR-9*(3)
hsa-miR-9-3	TCTTTGGTTATCTAGCTGTATGA	cluster-hsa-mir-9-1(3)	sf-hsa-miR-9-1(3)	hsa-miR-9(3)
hsa-miR-9-3*	ATAAAGCTAGATAACCGAAAGT	cluster-hsa-mir-9-1(3)	sf-hsa-miR-9-1*(3)	hsa-miR-9*(3)
hsa-miR-92a-1	TATTGCACTGTCCCGGCCCTGT	cluster-hsa-mir-17(12)	sf-hsa-miR-25(4)	hsa-miR-92a(2)
hsa-miR-92a-1*	AGGTTGGGATCGGTTGCAATGCT	cluster-hsa-mir-17(12)	sf-hsa-miR-92a-1*(1)	hsa-miR-92a-1*
hsa-miR-92a-2	TATTGCACTGTCCCGGCCCTGT	cluster-hsa-mir-17(12)	sf-hsa-miR-25(4)	hsa-miR-92a(2)
hsa-miR-92a-2*	GGGTGGGATTGTTTGGCACTACT	cluster-hsa-mir-17(12)	sf-hsa-miR-92a-2*(1)	hsa-miR-92a-2*
hsa-miR-92b	TATTGCACTCGTCCCGGCCCTCC	cluster-hsa-mir-92b(1)	sf-hsa-miR-25(4)	hsa-miR-92b
hsa-miR-92b*	AGGGACGGGACGCGGTGCAGTGT	cluster-hsa-mir-92b(1)	sf-hsa-miR-92b*(1)	hsa-miR-92b*
hsa-miR-93	CAAAGTGCTGTTCTGTCAGGTAG	cluster-hsa-mir-25(3)	sf-hsa-miR-17(8)	hsa-miR-93
hsa-miR-93*	ACTGCTGAGCTAGCACTCCCGA	cluster-hsa-mir-25(3)	sf-hsa-miR-93*(1)	hsa-miR-93*
hsa-miR-934	TGTCTACTACTGGAGACACTGG	cluster-hsa-mir-934(1)	sf-hsa-miR-934(1)	hsa-miR-934
hsa-miR-934*	GAGTCTCCAGTAATGACGGGA	cluster-hsa-mir-934(1)	sf-hsa-miR-934*(1)	hsa-miR-934*
hsa-miR-937	ATCCGCGCTCTGACTCTCTGC	cluster-hsa-mir-937(1)	sf-hsa-miR-937(1)	hsa-miR-937
hsa-miR-937*	GTGAGTCAGGGTGGGGCTGGC	cluster-hsa-mir-937(1)	sf-hsa-miR-937*(1)	hsa-miR-937*
hsa-miR-942	TTCTCTGTTTTGGCCATGTGT	cluster-hsa-mir-942(1)	sf-hsa-miR-942(1)	hsa-miR-942
hsa-miR-942*	CACATGGCCGAAACAGAGAAGT	cluster-hsa-mir-942(1)	sf-hsa-miR-942*(1)	hsa-miR-942*
hsa-miR-944	AAATTATTGTACATCGGATGAG	cluster-hsa-mir-944(1)	sf-hsa-miR-944(1)	hsa-miR-944
hsa-miR-944*	CATCTGATATACAATATTTCT	cluster-hsa-mir-944(1)	sf-hsa-miR-944*(1)	hsa-miR-944*
hsa-miR-95	TTCAACGGGTATTTATTGAGC	cluster-hsa-mir-95(1)	sf-hsa-miR-95(2)	hsa-miR-95
hsa-miR-95*	TCAATAAATGTCTGTTGAAT	cluster-hsa-mir-95(1)	sf-hsa-miR-545-3p(3)	hsa-miR-95*
hsa-miR-96	TTTGGCACTAGCACATTTTGTCT	cluster-hsa-mir-96(3)	sf-hsa-miR-96(1)	hsa-miR-96
hsa-miR-96*	CAATCATGTGCAGTGCCAATAT	cluster-hsa-mir-96(3)	sf-hsa-miR-96*(1)	hsa-miR-96*
hsa-miR-98	TGAGGTAGTAAGTTGTATTGTT	cluster-hsa-mir-98(13)	sf-hsa-let-7a-1(12)	hsa-miR-98
hsa-miR-98*	CTATACAACCTACTACTTTCC	cluster-hsa-mir-98(13)	sf-hsa-let-7a-1*(11)	hsa-miR-98*
hsa-miR-99a	AACCCGTAGATCCGATCTTGT	cluster-hsa-mir-98(13)	sf-hsa-miR-99a(3)	hsa-miR-99a
hsa-miR-99a*	CAAGCTCGCTTCTATGGGCTGT	cluster-hsa-mir-98(13)	sf-hsa-miR-99a*(2)	hsa-miR-99a*
hsa-miR-99b	CACCCGTAGAACCGACCTTGCG	cluster-hsa-mir-99b(3)	sf-hsa-miR-99a(3)	hsa-miR-99b
hsa-miR-99b*	CAAGCTCGTGTCTGTGGTCCGT	cluster-hsa-mir-99b(3)	sf-hsa-miR-99b*(1)	hsa-miR-99b*

Supplemental Digital Content (SDC)

Supplementary Table S5A: Merged mature miRNA profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
hsa-miR-143	109985	2519	41	8329	19445	16130	32314	12785	18422
hsa-miR-30a	93126	4099	50	8198	6402	15110	22281	15256	21731
hsa-miR-21	91868	5907	63	6482	30488	6794	10291	7677	24166
hsa-let-7a(3)	82435	5461	44	8770	10457	10842	15083	12268	19511
hsa-let-7f(2)	66674	3900	17	5894	7545	11189	13133	10524	14471
hsa-miR-145	35988	510	15	4867	6803	9350	7639	3249	3555
hsa-let-7b	34021	2312	21	2575	4325	5757	6268	4565	8197
hsa-miR-10b	28017	1318	12	3219	2177	4984	4904	5847	5558
hsa-miR-126	21293	888	4	2166	2354	3978	4324	3758	3821
hsa-miR-22	20852	954	12	2660	2846	5402	3329	2042	3607
hsa-miR-30d	19668	945	17	1736	1656	3226	4655	3503	3931
hsa-miR-99a	19588	698	9	1618	3570	3013	3522	2840	4319
hsa-miR-26a(2)	18939	535	9	1258	2289	2437	3380	2969	6062
hsa-miR-30c(2)	17862	493	7	914	1171	2225	4437	3995	4620
hsa-miR-10a	17378	1026	6	1076	1546	2176	3749	3723	4077
hsa-let-7i	16700	1514	13	1088	3433	1972	2913	2067	3701
hsa-let-7g	16290	942	3	1279	2232	2565	3365	2365	3539
hsa-miR-24(2)	13304	729	10	609	1392	1854	3244	1935	3531
hsa-miR-27b	13158	420	8	739	1513	2397	2644	2265	3173
hsa-miR-30e	13057	708	4	934	981	2196	3395	2018	2822
hsa-miR-23b	12559	296	5	730	1652	2599	2845	1823	2611
hsa-miR-101(2)	12469	632	11	1908	1526	2063	1965	1945	2419
hsa-miR-23a	12460	327	4	626	2047	2238	3569	1736	1915
hsa-miR-29a	12332	403	3	935	1670	1554	2739	2513	2516
hsa-miR-199a-3p(2)	11905	773	3	874	2151	920	2776	1824	2583
hsa-miR-181a(2)	11720	524	10	657	1313	1663	2703	1459	3391
hsa-miR-30a*	10753	494	4	898	866	1889	2348	1791	2463
hsa-let-7c	10606	608	7	989	1801	1652	1965	1241	2343
hsa-miR-125b(2)	9540	283	4	585	2202	1609	2220	624	2013
hsa-miR-103(2)	6759	440	6	404	823	835	1329	1513	1409
hsa-miR-192	6732	11	9	1240	555	2447	269	1197	1005
hsa-miR-100	6350	190	3	715	1477	1170	943	830	1023
hsa-miR-26b	6255	158	7	700	694	538	1268	1321	1569
hsa-miR-200a	6183	182	0	383	674	536	1490	833	2086
hsa-miR-29b(2)	5924	118	0	459	907	753	1086	1487	1115
hsa-miR-199b-3p	5915	382	2	434	1073	455	1380	904	1286
hsa-miR-30b	5840	79	2	192	362	367	1890	1477	1471
hsa-miR-200b	5798	257	1	241	570	568	1393	1104	1665
hsa-miR-221	5730	249	4	368	1015	910	1194	778	1215
hsa-miR-148a	5531	304	5	490	468	1089	1301	864	1011
hsa-miR-125a	5417	238	1	372	506	811	1169	863	1457
hsa-miR-140-3p	4759	178	0	321	582	914	1215	878	671
hsa-miR-27a	4719	136	0	211	745	656	1108	900	964
hsa-miR-126*	4175	67	1	468	432	525	1012	1077	593
hsa-let-7e	3977	327	6	406	376	258	938	678	989
hsa-miR-378	3900	27	4	717	363	1598	196	391	604
hsa-miR-19b(2)	3774	168	0	137	413	230	1145	942	739
hsa-miR-199a-5p(2)	3586	105	6	233	459	349	527	537	1370
hsa-miR-204	3445	45	1	443	252	827	564	693	621
hsa-miR-194(2)	3407	8	3	782	234	1084	107	629	560
hsa-let-7d	3323	227	2	316	437	511	633	467	729
hsa-miR-451-DICER1	3318	111	1	232	362	736	388	456	1032
hsa-miR-99b	3283	228	1	248	340	628	665	440	733
hsa-miR-29c	2951	38	1	295	323	360	912	531	491
hsa-miR-320-RNASEN	2775	220	3	185	435	467	495	393	577
hsa-miR-30e*	2720	151	1	192	229	460	597	545	546
hsa-miR-92a(2)	2696	103	0	165	298	440	682	327	682
hsa-miR-424	2546	58	1	153	276	206	592	905	355
hsa-miR-423-3p	2381	177	3	161	144	428	468	419	581
hsa-miR-146b	2277	104	0	63	319	82	152	155	1403
hsa-miR-130a	2190	76	0	111	305	235	532	455	476
hsa-miR-143*	2173	140	1	172	332	261	700	297	270
hsa-miR-25	2021	82	0	132	283	314	445	316	449
hsa-miR-142-3p	2001	54	0	63	966	117	277	135	389
hsa-miR-222	1925	89	2	82	377	220	317	289	549
hsa-miR-151-3p	1856	132	2	152	195	338	374	325	338
hsa-miR-191	1726	99	0	145	56	273	366	331	456
hsa-miR-497	1668	72	0	70	284	250	391	278	323
hsa-miR-16(2)	1627	50	0	279	210	219	292	198	379
hsa-miR-532-5p	1567	78	2	130	98	304	456	235	264
hsa-miR-200c	1469	69	0	111	206	149	303	227	405
hsa-miR-141	1414	64	1	73	157	143	355	214	408
hsa-miR-181b(2)	1407	63	0	85	166	178	289	192	435

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Supplementary Table S5A: Merged mature miRNA profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
hsa-miR-429	1391	59	0	80	120	172	363	145	452
hsa-miR-363	1355	89	0	132	73	187	302	287	285
hsa-miR-148b	1332	97	3	160	148	282	289	235	120
hsa-miR-106b	1326	72	1	87	186	207	277	173	323
hsa-miR-93	1272	63	0	104	162	244	250	170	279
hsa-miR-374a	1190	26	1	86	147	123	317	183	309
hsa-miR-19a	1065	23	0	34	138	47	315	283	225
hsa-miR-203	1042	144	1	36	81	81	228	237	234
hsa-miR-30c-2*	1041	52	0	71	67	193	240	186	232
hsa-miR-107	1035	30	1	139	84	235	155	189	202
hsa-miR-98	1021	42	0	170	116	194	208	117	172
hsa-miR-186	1014	33	0	72	128	152	199	189	241
hsa-miR-28-5p	943	36	0	71	116	133	211	140	236
hsa-miR-146a	927	62	0	94	144	191	132	96	209
hsa-miR-374b	920	33	0	55	111	69	238	202	214
hsa-miR-361-5p	915	27	1	49	105	124	196	130	283
hsa-miR-140-5p	835	20	1	15	54	119	223	233	170
hsa-miR-28-3p	824	39	0	58	119	145	163	110	190
hsa-miR-145*	820	11	0	73	113	123	282	71	147
hsa-miR-500a	797	56	0	48	59	146	213	89	188
hsa-miR-33a	777	21	1	66	70	108	135	111	266
hsa-miR-1(2)	752	15	0	52	157	115	288	45	80
hsa-miR-17	751	16	1	19	93	87	217	136	184
hsa-miR-196a(2)	749	59	1	53	73	84	153	82	246
hsa-miR-660	736	3	0	58	44	131	249	106	145
hsa-miR-152	665	44	0	72	89	130	165	92	74
hsa-miR-196b	621	41	0	38	54	44	137	86	221
hsa-miR-142-5p	607	15	0	11	245	25	80	76	155
hsa-miR-542	598	29	1	46	52	106	135	142	87
hsa-miR-20a	575	50	1	51	48	73	110	123	120
hsa-miR-190a	568	15	0	100	28	130	132	120	43
hsa-miR-455-3p	559	28	0	64	60	136	128	83	60
hsa-miR-502	548	29	1	25	43	78	139	125	109
hsa-miR-151-5p	542	21	1	31	50	62	154	129	94
hsa-miR-135a(2)	521	1	0	72	59	89	90	64	146
hsa-miR-125b-2*	507	24	0	17	72	96	114	70	114
hsa-miR-181c	497	17	0	16	67	47	115	83	151
hsa-miR-15a	492	12	0	71	42	75	76	111	106
hsa-miR-501-3p	472	32	0	23	28	87	113	102	89
hsa-miR-34a	470	28	0	48	87	34	138	44	91
hsa-miR-223	464	8	0	25	179	57	59	25	111
hsa-miR-331	450	9	2	37	82	66	56	99	99
hsa-miR-185	413	30	0	42	69	44	72	74	82
hsa-miR-9(3)	403	24	0	9	51	36	73	141	69
hsa-miR-362-5p	357	23	0	22	8	54	108	77	65
hsa-miR-10b*	356	23	0	17	31	87	33	65	100
hsa-miR-32	345	3	0	28	40	34	84	64	92
hsa-miR-10a*	321	25	0	11	35	46	62	59	83
hsa-miR-345	314	10	0	22	36	56	70	48	72
hsa-miR-374a*	309	9	0	19	31	37	82	48	83
hsa-miR-135b	305	2	0	20	82	16	36	47	102
hsa-miR-195	300	14	2	21	37	40	73	47	66
hsa-miR-181d	296	13	0	9	38	39	66	42	91
hsa-miR-218(2)	293	7	1	76	35	74	33	27	40
hsa-miR-15b	278	8	0	28	49	20	42	67	65
hsa-miR-532-3p	266	16	0	12	17	42	66	47	66
hsa-miR-182	252	24	0	14	51	27	39	30	67
hsa-miR-144	250	3	0	7	19	25	50	81	65
hsa-miR-183	246	14	1	5	62	22	40	23	79
hsa-miR-128(2)	243	6	0	13	17	70	57	40	40
hsa-miR-127-3p	230	9	0	34	54	31	47	31	24
hsa-miR-29c*	222	6	0	16	33	49	44	33	41
hsa-miR-769	218	6	0	19	31	46	40	22	54
hsa-miR-450a(2)	215	20	0	31	17	42	33	55	17
hsa-miR-24-2*	213	5	0	15	32	28	51	28	54
hsa-miR-423-5p	212	33	0	19	19	49	59	17	16
hsa-miR-450b	208	19	2	17	23	20	37	61	29
hsa-miR-744	207	14	1	24	26	38	46	35	23
hsa-miR-455-5p	202	11	1	51	10	34	52	20	23
hsa-miR-155	200	22	1	7	52	12	25	22	59
hsa-miR-514a(3)	196	0	0	24	120	14	1	23	14
hsa-miR-1307*	196	12	0	38	16	53	30	14	33
hsa-miR-132-3p	195	16	0	10	30	15	32	32	60

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Supplementary Table S5A: Merged mature miRNA profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
hsa-miR-181a-2*	188	9	0	7	12	16	55	34	55
hsa-miR-210	185	16	0	7	12	33	49	33	35
hsa-miR-425	183	11	0	24	25	34	16	20	53
hsa-miR-652	182	25	0	12	27	24	40	28	26
hsa-miR-376c	180	9	0	18	31	29	42	34	17
hsa-miR-760	180	45	10	10	19	18	23	25	30
hsa-miR-181a-1*	178	1	0	10	37	26	24	34	46
hsa-miR-324	174	6	0	32	19	46	42	12	17
hsa-miR-138(2)	166	2	0	32	4	42	36	27	23
hsa-miR-193b	166	4	0	9	18	24	53	32	26
hsa-miR-139	158	11	0	16	22	34	31	19	25
hsa-miR-452	156	8	0	10	24	12	29	28	45
hsa-miR-106a	150	11	1	7	8	18	38	40	29
hsa-miR-27b*	147	12	0	15	24	19	28	24	25
hsa-miR-30d*	147	7	0	7	13	17	37	26	41
hsa-let-7d*	144	7	1	12	27	19	35	17	26
hsa-let-7a*(2)	144	0	0	8	12	12	62	7	43
hsa-miR-150	138	5	0	6	53	13	20	7	34
hsa-miR-362-3p	135	0	0	1	8	8	62	39	17
hsa-miR-3613	132	7	0	15	17	22	28	20	23
hsa-miR-340	132	1	0	15	19	15	27	22	33
hsa-miR-20b	130	8	0	11	4	23	24	36	25
hsa-miR-136-5p	130	1	0	13	27	14	19	34	22
hsa-miR-342	127	1	0	9	30	11	27	8	41
hsa-miR-96	125	12	0	5	29	8	29	14	28
hsa-miR-17*	121	9	0	12	11	12	27	12	38
hsa-miR-504	118	2	1	10	23	7	34	19	22
hsa-miR-193a-3p	118	3	0	7	28	4	19	31	26
hsa-miR-708	118	3	0	8	11	21	22	31	22
hsa-miR-934	118	8	0	0	2	8	50	23	27
hsa-miR-24-1*	116	2	0	11	16	19	29	18	21
hsa-miR-301a	116	5	0	11	17	11	25	16	31
hsa-miR-574-3p	114	6	0	6	19	16	27	14	26
hsa-miR-505	113	2	0	13	12	18	15	8	45
hsa-let-7i*	112	2	0	3	24	11	12	26	34
hsa-miR-215	106	0	0	22	11	42	4	14	14
hsa-miR-377	104	3	0	7	23	17	12	26	16
hsa-miR-376a-3p(2)	104	0	0	14	23	25	21	12	9
hsa-miR-22*	102	1	0	12	11	28	24	15	11
hsa-miR-99b*	101	4	0	11	9	31	22	7	17
hsa-miR-503	101	8	0	13	14	9	14	23	20
hsa-miR-409-3p	99	5	1	23	22	19	12	9	8
hsa-miR-500a*(2)	99	2	0	3	1	17	36	15	25
hsa-miR-199b-5p	98	8	1	7	15	3	35	4	25
hsa-miR-21*	96	1	0	11	49	5	8	6	16
hsa-miR-501-5p	94	3	0	4	9	15	27	18	18
hsa-miR-484-RNASEN	94	2	0	8	16	21	22	10	15
hsa-miR-193a-5p	91	2	0	3	15	19	19	12	21
hsa-miR-127-5p	86	2	0	7	24	16	13	13	11
hsa-miR-629	85	4	1	3	11	19	23	6	18
hsa-miR-339-3p	83	3	0	9	18	15	16	2	20
hsa-let-7b*	83	0	0	11	12	10	18	10	22
hsa-miR-188	83	1	0	4	7	12	12	24	23
hsa-miR-106b*	81	7	0	4	8	11	15	15	21
hsa-miR-574-5p	81	3	0	10	16	10	10	11	21
hsa-miR-95	80	1	0	6	9	19	20	3	22
hsa-miR-324*	79	4	0	6	9	20	11	7	22
hsa-miR-144*	77	2	0	4	6	15	7	13	30
hsa-miR-365(2)	76	1	0	6	9	15	18	12	15
hsa-miR-92b	75	1	0	5	20	5	13	11	20
hsa-miR-508	75	1	0	6	53	5	0	1	9
hsa-miR-20a*	71	2	0	4	9	4	15	11	26
hsa-miR-499	70	1	0	4	7	14	18	7	19
hsa-miR-411	68	2	0	5	17	6	14	11	13
hsa-miR-379	66	2	0	14	12	6	12	10	10
hsa-miR-224	66	2	0	2	22	8	12	7	13
hsa-miR-29b-2*	66	1	0	10	14	21	9	5	6
hsa-miR-381	62	0	0	12	16	9	13	3	9
hsa-miR-200b*	61	0	0	7	4	6	13	9	22
hsa-miR-129-1-3p	61	2	0	2	6	12	13	18	9
hsa-miR-132-5p	60	2	0	4	11	6	7	7	23
hsa-miR-217	59	0	0	19	1	34	0	3	2
hsa-miR-34c	58	2	0	2	9	8	7	5	25

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Supplementary Table S5A: Merged mature miRNA profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
hsa-miR-7(3)	58	2	1	7	8	10	10	16	4
hsa-miR-361-3p	57	7	0	16	8	10	1	7	8
hsa-miR-335-5p	56	2	0	4	7	5	9	11	18
hsa-miR-125b-1*	56	2	0	3	9	6	8	7	21
hsa-miR-134	55	7	2	7	6	8	9	6	10
hsa-miR-197	55	4	0	5	9	4	11	9	13
hsa-miR-425*	54	3	0	6	7	9	10	8	11
hsa-miR-615-3p	54	3	0	8	9	8	9	7	10
hsa-miR-29a*	53	1	0	8	4	8	13	4	15
hsa-miR-424*	53	0	0	8	2	3	9	18	13
hsa-miR-370	52	3	0	7	7	9	8	8	10
hsa-miR-214-3p	52	1	0	7	4	8	11	4	17
hsa-miR-454	52	4	0	4	3	4	14	8	15
hsa-miR-200a*	51	1	0	2	6	7	11	5	19
hsa-miR-502*	51	0	0	4	3	11	17	7	9
hsa-miR-509-3p(3)	50	1	0	8	32	5	0	1	3
hsa-miR-148a*	50	3	0	6	4	10	13	7	7
hsa-miR-598	49	1	0	5	8	4	15	5	11
hsa-miR-874	48	1	0	11	8	12	6	3	7
hsa-miR-214-5p	47	1	0	3	9	6	4	8	16
hsa-miR-375	47	1	0	4	17	2	3	2	18
hsa-miR-328	46	1	0	2	7	11	12	9	4
hsa-miR-382-5p	45	3	0	3	11	7	8	6	7
hsa-miR-194-2*	45	0	0	13	3	15	0	4	10
hsa-miR-27a*	45	4	0	3	5	4	5	13	11
hsa-miR-146b*	43	2	0	2	7	6	1	0	25
hsa-miR-590-5p	43	1	0	4	2	0	15	15	6
hsa-miR-335-3p	42	2	0	7	7	3	2	9	12
hsa-miR-493	41	3	0	12	6	4	7	1	8
hsa-miR-582	41	0	0	2	3	5	12	9	10
hsa-miR-125a*	40	2	0	1	8	9	6	7	7
hsa-miR-93*	40	0	0	1	9	6	6	7	11
hsa-miR-33b	39	1	0	2	2	10	4	14	7
hsa-miR-369	38	2	0	8	7	3	8	4	6
hsa-miR-338-5p	38	3	0	0	1	12	6	9	7
hsa-miR-18a	37	2	0	3	4	6	3	7	13
hsa-miR-135a-2*	36	1	0	1	3	14	7	1	9
hsa-miR-577	36	4	0	1	0	3	18	3	7
hsa-miR-181c*	36	2	0	1	8	3	7	6	9
hsa-let-7e*	35	1	0	5	5	5	7	6	6
hsa-miR-133a(2)	34	0	0	2	5	8	12	7	1
hsa-miR-101-1*	34	0	0	5	4	5	6	6	8
hsa-miR-338-3p	33	0	0	0	1	4	7	8	13
hsa-miR-653-5p	32	0	0	2	3	0	3	5	19
hsa-miR-625-3p	32	0	0	3	4	3	4	9	9
hsa-miR-410*	31	2	0	3	4	2	8	6	6
hsa-miR-495	31	0	0	4	5	2	13	4	3
hsa-miR-136-3p	30	0	0	4	6	6	7	3	4
hsa-miR-653-3p	30	1	0	5	1	3	3	3	14
hsa-miR-486	30	2	0	4	3	7	8	2	4
hsa-miR-30c-1*	30	1	0	0	1	2	10	10	6
hsa-miR-196a-2*	29	1	0	0	8	11	2	5	2
hsa-miR-625-5p	29	0	0	2	3	6	8	4	6
hsa-miR-367	28	3	0	0	0	0	17	4	4
hsa-miR-30b*	28	1	0	2	3	2	7	5	8
hsa-miR-511-5p(2)	27	2	0	1	10	4	2	2	6
hsa-miR-330-3p	27	1	0	3	6	5	2	3	7
hsa-miR-654	27	0	0	4	8	2	7	3	3
hsa-miR-323b*	27	4	1	2	7	5	5	0	3
hsa-miR-130b-3p	27	0	3	2	7	1	7	5	2
hsa-miR-628	26	0	0	4	4	3	6	5	4
hsa-miR-204*	25	1	0	5	1	12	6	0	0
hsa-miR-299-5p	25	0	0	1	4	2	3	7	8
hsa-miR-421	25	1	0	3	3	7	0	3	8
hsa-miR-514a*(3)	24	0	0	5	17	0	0	1	1
hsa-miR-487b	24	1	0	8	4	7	2	1	1
hsa-miR-98*	24	1	0	1	2	4	6	5	5
hsa-miR-1271	24	1	0	1	1	6	4	2	9
hsa-miR-148b*	24	2	0	2	5	4	3	3	5
hsa-miR-660*	24	0	0	2	2	5	6	5	4
hsa-miR-1307	23	0	0	2	3	8	4	2	4
hsa-miR-216b	23	0	0	9	0	12	0	2	0
hsa-miR-296-3p	23	3	0	1	3	4	2	6	4

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Supplementary Table S5A: Merged mature miRNA profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
hsa-miR-212-5p	23	5	0	0	3	2	4	0	9
hsa-miR-31-5p	22	2	0	0	4	1	9	5	1
hsa-miR-129-5p(2)	22	0	0	1	2	5	3	5	6
hsa-miR-339-5p	22	0	0	1	2	3	8	5	3
hsa-let-7f-1*	22	1	0	1	5	4	3	3	5
hsa-miR-1301	22	2	0	0	5	1	9	3	2
hsa-miR-192*	22	0	0	7	1	9	0	1	4
hsa-miR-222*	22	0	0	1	4	0	5	3	9
hsa-miR-23b*	22	1	0	1	2	4	6	2	6
hsa-miR-543	21	1	0	3	4	4	3	4	2
hsa-miR-221*	21	0	0	1	4	6	2	5	3
hsa-miR-450a-2*	21	1	0	1	1	3	5	7	3
hsa-miR-342*	20	0	0	0	9	3	4	2	2
hsa-miR-99a*	20	0	0	4	4	8	2	1	1
hsa-miR-590-3p	20	0	0	1	1	1	7	4	6
hsa-miR-19b-1*	20	1	0	1	2	4	2	2	8
hsa-miR-708*	19	0	0	2	0	5	3	3	6
hsa-miR-374b*	19	0	0	2	2	1	6	3	5
hsa-miR-106a*	19	2	0	1	1	4	3	4	4
hsa-miR-185*	18	1	0	1	1	6	4	2	3
hsa-miR-873	18	0	0	6	2	5	0	0	5
hsa-miR-16-2*	18	0	0	1	1	4	0	9	3
hsa-let-7g*	18	0	0	1	4	2	4	5	2
hsa-miR-187	17	0	0	3	4	6	0	1	3
hsa-miR-409-5p	17	0	0	3	2	6	2	0	4
hcmv-miR-US25-2-3p	17	4	1	2	3	1	2	2	2
hsa-miR-369*	17	1	0	3	7	2	1	1	2
hsa-miR-382-3p	17	0	0	0	5	3	5	2	2
hsa-miR-1277-3p	17	1	0	2	3	4	2	3	2
hsa-miR-551b	17	1	0	0	3	1	3	3	6
hsa-miR-1277-5p	17	3	0	4	1	0	5	4	0
hsa-miR-887	16	0	0	1	1	5	3	2	4
hsa-miR-190a*	16	0	0	1	1	1	6	6	1
hsa-miR-491	16	0	0	1	2	3	5	0	5
hsa-miR-651	16	0	0	0	6	0	5	2	3
hsa-miR-1287	16	0	0	3	1	4	3	3	2
hsa-miR-1185-1-3p	16	1	0	0	8	2	1	3	1
hvt-miR-H14*	15	1	0	1	3	2	4	2	5
hsa-miR-1468	15	0	0	1	1	5	3	3	2
hsa-miR-195*	15	0	0	1	1	4	4	2	3
hsa-miR-585	15	0	0	0	3	1	8	3	0
hsa-miR-615-5p	15	1	0	4	0	2	2	3	3
hsa-miR-378*	14	0	0	7	0	5	1	0	1
hsa-miR-130b-5p	14	0	0	1	3	2	5	2	1
hsa-miR-16-1*	14	1	0	1	2	4	2	1	3
hsa-miR-7-1*	14	1	0	0	5	3	1	3	1
hsa-miR-3117	14	1	0	2	1	1	2	2	5
hsa-miR-505*	14	1	0	2	3	1	2	2	3
hsa-let-7f-2*	13	0	0	1	0	2	6	2	2
hsa-miR-506	13	0	0	1	9	0	0	1	2
hsa-miR-206	13	0	0	2	2	3	4	1	1
hsa-miR-326	13	0	0	0	4	2	3	3	1
hsa-miR-302a-5p	13	2	0	0	0	0	1	5	5
hsa-miR-376a-1-5p	13	0	0	5	2	2	0	3	1
hsa-miR-193b*	13	1	0	3	5	2	0	1	1
hsa-miR-31-3p	13	1	0	0	6	0	1	1	4
hsa-miR-376a-2-5p	13	2	0	2	1	4	2	1	1
hsa-miR-122	13	9	0	0	0	0	1	3	0
hsa-miR-224*	13	0	0	0	4	3	2	1	3
hsa-miR-337	13	0	0	1	5	2	2	1	2
hsa-miR-139*	12	2	0	1	3	3	2	1	0
hsa-miR-589	12	0	0	1	3	4	1	0	3
hsa-miR-26b*	12	0	0	1	1	2	4	2	2
hsa-miR-3909	12	0	0	2	1	3	3	1	2
hsa-miR-618	12	0	0	1	0	1	3	2	5
hsa-miR-26a-2*	11	0	0	1	4	0	1	1	4
hsa-miR-539	11	0	0	1	1	1	1	5	2
hsa-miR-184	11	0	0	3	0	6	0	1	1
hsa-miR-450a-1*	11	0	0	0	1	2	1	3	4
hsa-miR-582*	11	1	0	2	1	0	1	2	4
hsa-miR-1296	11	1	0	0	2	2	4	0	2
hsa-miR-376b	10	0	0	1	1	3	1	2	2
hsa-miR-129-2-3p	10	0	0	1	3	2	1	3	1

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Supplementary Table S5A: Merged mature miRNA profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
hsa-miR-497*	10	1	0	3	1	0	2	2	1
hsa-miR-299-3p	10	0	0	3	0	2	1	1	3
hsa-miR-3065-5p	10	0	0	0	1	3	5	1	0
hsa-miR-561	10	1	0	1	2	0	3	1	2
hsa-miR-130a*	10	0	0	2	1	0	3	3	1
hsa-miR-29b-1*	10	1	0	0	2	2	2	2	1
hsa-miR-331*	9	0	0	0	2	1	1	1	4
hsa-miR-218-1*	9	0	0	2	1	4	0	1	1
hsa-miR-432	9	0	0	1	0	1	2	1	4
hsa-miR-485-5p	9	1	0	1	3	0	1	0	3
hsa-miR-1180	9	0	0	0	4	0	3	0	2
hsa-miR-452*	9	1	0	0	4	1	1	0	2
hsa-miR-766	9	0	0	0	2	2	2	1	2
hsa-miR-1251	9	0	0	1	1	5	0	1	1
hsa-miR-3613*	9	0	0	0	1	3	3	2	0
hsa-miR-219-5p(2)	9	0	0	0	2	0	4	3	0
hsa-miR-23a*	9	1	0	0	0	1	1	4	2
hsa-miR-494	9	0	0	0	1	4	4	0	0
hsa-miR-18a*	9	0	0	1	0	2	1	4	1
hsa-miR-509-3-5p	8	0	0	0	5	2	0	1	0
hsa-miR-671	8	2	0	0	1	1	1	1	2
hsa-miR-655	8	0	0	2	3	1	1	0	1
hsa-miR-20b*	8	0	0	0	1	1	1	4	1
hsa-miR-3605-3p	8	0	0	1	2	1	1	1	2
ebv-miR-BART6-3p	8	3	0	2	0	0	1	1	1
hsa-miR-340*	8	0	0	0	0	1	3	0	4
hsa-miR-449a	8	0	0	0	0	2	1	4	1
hsa-miR-509-5p(2)	8	0	0	1	7	0	0	0	0
hsa-miR-576-3p	8	1	0	0	0	2	1	2	2
hsa-miR-576-5p	8	0	0	1	1	0	5	0	1
hsa-miR-92a-1*	8	0	0	1	0	1	2	0	4
hsa-miR-211	8	0	0	1	1	2	0	2	3
hsa-miR-1185-5p(2)	8	0	0	0	1	1	1	1	4
hsa-miR-141*	8	0	0	0	1	0	1	2	4
hsa-miR-488	8	0	0	0	1	0	1	3	3
hsa-miR-489	8	1	0	0	1	1	1	1	3
hsa-miR-542*	8	0	0	2	1	1	1	0	3
hsa-miR-149	8	0	0	2	0	0	5	0	1
hsa-miR-487a-5p	8	1	0	1	2	1	1	1	1
hsa-miR-302c	7	3	0	0	0	0	1	3	0
hsa-miR-302a-3p	7	2	0	0	0	0	3	0	2
hsa-miR-302b	7	2	0	0	0	0	2	3	0
hsa-miR-147	7	0	0	0	1	4	1	1	0
hsa-miR-500b*	7	2	0	1	1	0	1	2	1
hsa-miR-3065-3p	7	0	0	2	2	1	0	0	2
hsa-miR-1270(2)	7	0	0	3	0	2	0	2	0
hsa-miR-889	7	1	0	0	1	1	3	1	0
hsa-miR-1247	7	0	0	2	4	0	0	1	0
hsa-miR-203*	7	1	0	0	0	0	2	2	2
hsa-miR-3158	7	0	0	0	0	0	3	2	2
hsa-miR-18b	7	0	0	0	1	3	1	1	2
hsa-miR-511-3p(2)	6	0	0	0	2	1	1	2	0
hsa-miR-15b*	6	0	0	3	0	1	0	1	1
hsa-miR-188*	6	0	0	0	0	1	3	2	0
hsa-miR-124(3)	6	0	0	0	1	2	0	3	0
hsa-miR-483-5p	6	0	0	1	1	0	0	3	1
hsa-miR-190b	6	0	0	1	1	0	3	0	1
hsa-miR-301b	6	0	0	0	3	2	0	0	1
hsa-miR-513c-5p	6	0	0	0	4	0	1	1	0
hsa-miR-570-5p	6	0	0	0	0	2	2	1	1
hsa-miR-592	6	0	0	0	1	1	0	2	2
hsa-miR-627-5p	6	0	0	0	0	1	2	0	3
hsa-let-7c*	6	0	0	0	2	0	0	1	3
hsa-miR-2114	6	0	0	1	1	3	0	0	1
hsa-miR-34b	6	0	0	1	2	1	1	0	1
hsa-miR-934*	6	2	0	0	0	0	1	1	2
hsa-miR-9*(3)	6	0	0	0	1	0	1	3	1
hsa-miR-302d	5	1	0	0	0	1	1	1	1
hsa-miR-433	5	0	0	1	0	1	1	2	0
hsa-miR-891a	5	1	0	1	0	2	0	1	0
hsa-miR-32*	5	0	0	1	0	0	1	1	2
hsa-miR-493*	5	0	0	0	1	0	1	1	2
hsa-miR-323a	5	0	0	1	2	1	0	0	1

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Supplementary Table S5A: Merged mature miRNA profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
hsa-miR-3611	5	1	0	0	2	0	1	1	0
hsa-miR-377*	5	0	0	0	0	2	2	1	0
hsa-miR-539*	5	0	0	2	1	1	0	1	0
hsa-miR-137	5	0	0	0	0	0	4	0	1
hsa-miR-152*	5	0	0	0	0	1	0	1	3
hsa-miR-3200	5	0	0	2	1	1	0	0	1
hsa-miR-499*	5	0	0	0	0	2	1	1	1
hsa-miR-556-5p	5	0	0	0	0	0	3	2	0
hsa-miR-577*	5	0	0	0	0	0	1	3	1
hsa-miR-376b*	5	0	0	1	2	2	0	0	0
hsa-miR-376c*	5	0	0	1	2	2	0	0	0
hsa-miR-133a*(2)	4	1	0	0	0	0	3	0	0
hsa-miR-2355-3p	4	0	0	0	1	0	1	1	1
hsa-miR-329(2)	4	0	0	0	2	0	0	1	1
hsa-miR-33a*	4	0	0	0	0	0	1	0	3
hsa-miR-545-5p	4	0	0	0	0	0	1	1	2
hsa-miR-654*	4	0	1	2	1	0	0	0	0
hsa-miR-1249	4	0	0	0	0	1	2	0	1
hsa-miR-186*	4	1	0	0	1	0	0	1	1
hsa-miR-34a*	4	0	0	0	2	0	0	1	1
hsa-miR-379*	4	0	0	0	2	1	0	1	1
hsa-miR-410	4	0	0	0	0	1	2	1	0
hsa-miR-485-3p	4	0	0	1	1	0	1	1	0
hsa-miR-503*	4	0	0	0	1	0	0	0	3
hsa-miR-545-3p	4	0	0	0	0	0	1	1	2
hsa-miR-570-3p	4	0	0	0	0	0	1	2	1
hsa-miR-584	4	0	0	0	0	2	1	0	1
hsa-miR-675*	4	0	0	0	1	2	1	0	0
hsa-miR-1269	3	0	0	0	0	1	0	1	1
hsa-miR-514b-3p	3	0	0	0	1	0	0	0	2
hsa-miR-769*	3	0	0	0	0	1	2	0	0
hsa-miR-1306-5p	3	0	0	0	1	1	1	0	0
hsa-miR-154-3p	3	0	0	0	0	1	1	0	1
hsa-miR-431-5p	3	0	0	0	1	0	0	0	2
hsa-miR-1185-2-3p	3	0	0	0	1	1	1	0	0
hsa-miR-181b-1*	3	0	0	0	0	1	2	0	0
hsa-miR-2355-5p	3	0	0	1	1	0	1	0	0
hsa-miR-496	3	0	0	0	0	1	0	1	1
hsa-miR-624-3p	3	0	0	0	0	2	0	1	0
hsa-miR-652*	3	0	0	0	1	0	1	1	0
hsa-miR-675	3	0	0	1	1	0	0	1	0
hsa-miR-876-5p	3	0	1	0	2	0	0	0	0
hsa-miR-942	3	0	0	0	0	1	0	1	1
hsa-miR-135b*	3	0	0	0	0	2	0	0	1
hsa-miR-146a*	3	0	0	0	1	0	1	0	1
hsa-miR-153(2)	3	0	0	0	0	1	2	0	0
hsa-miR-181b-2*	3	0	0	0	1	0	1	1	0
hsa-miR-19b-2*	3	0	0	0	0	0	1	1	1
hsa-miR-2116-3p	3	0	0	0	0	0	2	0	1
hsa-miR-3074-5p	3	1	0	0	1	0	0	1	0
hsa-miR-3173	3	1	0	0	0	0	0	1	1
hsa-miR-3194-3p	3	0	0	0	1	0	2	0	0
hsa-miR-34c*	3	0	0	0	0	1	0	1	1
hsa-miR-411*	3	0	0	0	2	1	0	1	0
hsa-miR-483-3p	3	0	0	0	3	0	0	0	0
hsa-miR-550-5p(2)	3	0	0	0	1	1	0	1	0
hsa-miR-656	3	0	0	0	1	0	0	1	1
hsa-miR-665	3	0	0	0	0	0	2	1	0
hsa-miR-758	3	0	0	0	0	0	1	0	2
hsa-miR-513a-5p(2)	2	0	0	1	0	0	0	0	1
hsa-miR-183*	2	0	0	0	1	0	0	1	0
hsa-miR-216a	2	0	0	1	0	0	0	1	0
hsa-miR-212-3p	2	0	0	0	0	0	0	0	2
hsa-miR-3912	2	0	0	0	0	0	1	0	1
hsa-miR-888	2	0	0	0	0	1	1	0	0
hsa-miR-103-2*	2	0	0	0	1	0	0	0	1
hsa-miR-1294-5p	2	1	0	0	0	0	0	1	0
hsa-miR-1296*	2	0	0	0	1	0	1	0	0
hsa-miR-138-1*	2	0	0	0	0	1	0	1	0
hsa-miR-150*	2	1	0	0	0	0	0	0	1
hsa-miR-2110	2	1	0	0	0	1	0	0	0
hsa-miR-223*	2	0	0	0	2	0	0	0	0
hsa-miR-323b	2	0	0	0	0	1	1	0	0

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Supplementary Table S5A: Merged mature miRNA profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
hsa-miR-330-5p	2	0	0	0	1	0	0	0	1
hsa-miR-599	2	0	0	0	2	0	0	0	0
hsa-miR-744*	2	0	0	1	0	1	0	0	0
hsa-miR-92b*	2	0	0	1	0	0	1	0	0
hsa-miR-101-2*	2	0	0	1	0	0	0	1	0
hsa-miR-1251*	2	0	0	0	0	2	0	0	0
hsa-miR-1304-3p	2	0	0	1	0	1	0	0	0
hsa-miR-134*	2	0	0	1	0	0	1	0	0
hsa-miR-138-2*	2	0	0	0	0	1	1	0	0
hsa-miR-19a*	2	0	0	0	0	0	0	1	1
hsa-miR-202-5p	2	0	0	0	0	0	0	0	2
hsa-miR-205	2	0	0	0	0	0	2	0	0
hsa-miR-217*	2	0	0	1	0	1	0	0	0
hsa-miR-3130-5p	2	0	0	0	0	1	0	0	1
hsa-miR-3177	2	1	0	0	0	0	0	1	0
hsa-miR-337*	2	0	0	0	1	0	0	1	0
hsa-miR-3605-5p	2	0	0	0	0	2	0	0	0
hsa-miR-370*	2	0	0	0	0	0	1	1	0
hsa-miR-372	2	0	0	0	0	0	2	0	0
hsa-miR-412-5p	2	0	0	1	0	0	1	0	0
hsa-miR-510-3p	2	0	0	0	0	0	0	0	2
hsa-miR-550-3p(2)	2	0	0	0	1	0	1	0	0
hsa-miR-551a	2	0	0	1	0	0	0	0	1
hsa-miR-556-3p	2	0	0	0	0	1	1	0	0
hsa-miR-580	2	0	0	0	0	0	2	0	0
hsa-miR-597	2	0	0	0	0	0	1	1	0
hsa-miR-599*	2	0	0	0	2	0	0	0	0
hsa-miR-628*	2	0	0	0	0	0	0	1	1
hsa-miR-629*	2	0	0	0	0	0	0	1	1
hsa-miR-643	2	0	0	0	1	0	0	1	0
hsa-miR-671*	2	0	0	0	0	1	0	0	1
hsa-miR-676	2	0	0	0	0	1	1	0	0
hsa-miR-133b	2	0	0	0	1	0	0	0	0
hsa-miR-589*	1	0	0	0	0	0	1	0	0
hsa-miR-1179	1	0	0	0	0	0	1	0	0
hsa-miR-154-5p	1	0	0	1	0	0	0	0	0
hsa-miR-1263-5p	1	0	0	0	0	0	1	0	0
hsa-miR-1306-3p	1	0	0	0	0	0	0	0	1
hsa-miR-191*	1	0	0	0	0	0	0	0	1
hsa-miR-2110*	1	0	0	0	0	0	0	1	0
hsa-miR-3127-5p	1	0	0	0	0	1	0	0	0
hsa-miR-1269*	1	0	0	0	1	0	0	0	0
hsa-miR-15a*	1	0	0	0	0	0	1	0	0
hsa-miR-200c*	1	1	0	0	0	0	0	0	0
hsa-miR-210*	1	0	0	0	0	0	1	0	0
hsa-miR-3157-5p	1	0	0	0	0	0	0	0	1
hsa-miR-3176	1	0	0	0	1	0	0	0	0
hsa-miR-3187	1	0	0	0	1	0	0	0	0
hsa-miR-3680	1	0	0	0	0	0	0	0	1
hsa-miR-381*	1	0	0	0	0	0	0	1	0
hsa-miR-641	1	1	0	0	0	0	0	0	0
hsa-miR-876-3p	1	0	0	0	0	0	1	0	0
hsa-miR-937	1	0	0	0	0	0	0	1	0
hsa-miR-100*	1	0	0	0	1	0	0	0	0
hsa-miR-107*	1	0	0	0	0	1	0	0	0
hsa-miR-1255a-5p	1	0	0	0	1	0	0	0	0
hsa-miR-1270*(2)	1	0	0	0	0	0	0	0	1
hsa-miR-128-1*	1	0	0	0	1	0	0	0	0
hsa-miR-1286*	1	0	0	1	0	0	0	0	0
hsa-miR-1287*	1	0	0	0	0	0	0	1	0
hsa-miR-1289-5p	1	0	0	0	0	0	0	1	0
hsa-miR-1303-5p	1	0	0	0	0	0	0	1	0
hsa-miR-135a-1*	1	0	0	0	0	0	0	0	1
hsa-miR-182*	1	0	0	0	0	1	0	0	0
hsa-miR-2114*	1	0	0	0	1	0	0	0	0
hsa-miR-216a*	1	0	0	0	0	0	0	0	1
hsa-miR-219-1-3p	1	0	0	0	0	0	1	0	0
hsa-miR-2277	1	0	0	0	0	0	0	0	1
hsa-miR-2277*	1	0	0	0	1	0	0	0	0
hsa-miR-26a-1*	1	0	0	1	0	0	0	0	0
hsa-miR-301a*	1	0	0	0	0	0	1	0	0
hsa-miR-302b*	1	0	0	0	0	0	0	1	0
hsa-miR-3117*	1	0	0	0	0	0	0	1	0

Supplemental Digital Content (SDC)

Supplementary Table S5A: Merged mature miRNA profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
hsa-miR-3130-3p	1	0	0	0	0	1	0	0	0
hsa-miR-3140-3p	1	0	0	0	0	0	1	0	0
hsa-miR-3144*	1	0	0	0	0	0	1	0	0
hsa-miR-323a*	1	0	0	0	0	0	1	0	0
hsa-miR-329*(2)	1	0	0	0	0	0	0	1	0
hsa-miR-345*	1	0	0	0	0	0	0	1	0
hsa-miR-346	1	0	0	0	1	0	0	0	0
hsa-miR-346*	1	0	0	0	0	0	0	1	0
hsa-miR-3614-5p	1	0	0	0	0	0	0	1	0
hsa-miR-3619-3p	1	1	0	0	0	0	0	0	0
hsa-miR-3622-5p	1	0	0	0	0	0	0	0	1
hsa-miR-363*	1	0	0	0	0	0	1	0	0
hsa-miR-365-2*	1	0	0	1	0	0	0	0	0
hsa-miR-3664-3p	1	0	0	0	0	0	0	1	0
hsa-miR-367*	1	0	0	0	0	0	0	0	1
hsa-miR-371	1	0	0	0	0	1	0	0	0
hsa-miR-380-3p	1	0	0	0	0	0	0	0	1
hsa-miR-3912*	1	0	0	0	0	0	0	1	0
hsa-miR-3928	1	0	0	0	0	0	0	0	1
hsa-miR-429*	1	0	0	1	0	0	0	0	0
hsa-miR-431-3p	1	0	0	0	1	0	0	0	0
hsa-miR-4326	1	0	0	1	0	0	0	0	0
hsa-miR-433*	1	0	0	0	1	0	0	0	0
hsa-miR-486*	1	0	0	0	0	1	0	0	0
hsa-miR-487b*	1	0	0	1	0	0	0	0	0
hsa-miR-489*	1	0	0	0	0	0	0	1	0
hsa-miR-498-5p	1	1	0	0	0	0	0	0	0
hsa-miR-508*	1	0	0	0	1	0	0	0	0
hsa-miR-513c-3p	1	0	0	0	1	0	0	0	0
hsa-miR-514b-5p	1	0	0	0	1	0	0	0	0
hsa-miR-541-5p	1	0	0	0	1	0	0	0	0
hsa-miR-544-3p	1	0	0	0	0	0	1	0	0
hsa-miR-559-3p	1	0	0	0	0	0	0	0	1
hsa-miR-579-3p	1	0	0	0	0	0	0	0	1
hsa-miR-579-5p	1	0	0	0	0	0	1	0	0
hsa-miR-580*	1	0	0	0	0	1	0	0	0
hsa-miR-581	1	0	0	1	0	0	0	0	0
hsa-miR-588*	1	0	0	0	0	0	1	0	0
hsa-miR-598*	1	0	0	0	1	0	0	0	0
hsa-miR-616-3p	1	0	0	0	0	1	0	0	0
hsa-miR-616-5p	1	0	0	0	0	1	0	0	0
hsa-miR-624-5p	1	0	0	0	0	0	0	0	1
hsa-miR-642-3p	1	1	0	0	0	0	0	0	0
hsa-miR-656*	1	0	0	1	0	0	0	0	0
hsa-miR-659	1	0	0	0	0	0	1	0	0
hsa-miR-7-2*	1	0	0	0	0	1	0	0	0
hsa-miR-767*	1	0	0	0	0	1	0	0	0
hsa-miR-874*	1	0	0	1	0	0	0	0	0
hsa-miR-885*	1	0	0	0	0	0	0	1	0
hsa-miR-887*	1	0	0	0	0	0	1	0	0
hsa-miR-892a	1	0	0	1	0	0	0	0	0
hsa-miR-892a*	1	0	0	1	0	0	0	0	0
hsa-miR-944	1	0	0	0	0	0	0	1	0
hsv1-miR-H7	1	0	0	0	0	0	0	1	0
hsv2-miR-H22	1	0	0	0	0	0	0	1	0
iltv-miR-I5	1	0	0	0	0	1	0	0	0
kshv-miR-K12-6-3p	1	0	0	1	0	0	0	0	0
kshv-miR-K12-8	1	0	0	0	0	1	0	0	0
mcmv-miR-m01-3*	1	0	0	0	1	0	0	0	0
mdv1-miR-M10-5p	1	0	0	0	0	0	0	1	0
rlcv-miR-rL1-4-5p	1	0	0	0	0	0	0	1	0
hsa-miR-18b*	1	0	0	0	0	0	0	1	0
hsa-miR-4326*	1	0	0	1	0	0	0	0	0
bkv-miR-B1-5p	0	0	0	0	0	0	0	0	0
hsa-miR-1255a-3p	0	0	0	0	0	0	0	0	0
hsa-miR-1301*	0	0	0	0	0	0	0	0	0
hsa-miR-1305	0	0	0	0	0	0	0	0	0
hsa-miR-302c*	0	0	0	0	0	0	0	0	0
hsa-miR-3074-3p	0	0	0	0	0	0	0	0	0
hsa-miR-3136	0	0	0	0	0	0	0	0	0
hsa-miR-3145-5p	0	0	0	0	0	0	0	0	0
hsa-miR-3155-5p	0	0	0	0	0	0	0	0	0
hsa-miR-33b*	0	0	0	0	0	0	0	0	0

Supplemental Digital Content (SDC)

Supplementary Table S5A: Merged mature miRNA profiles

[illegible]

Supplemental Digital Content (SDC)

Supplementary Table S5A: Merged mature miRNA profiles

		IFTA				Stable			
	Total reads over all samples								
miRNA/Sample		M1	M2	M3	M4	M5	M6	M7	M8
hbv-miR-B4	0	0	0	0	0	0	0	0	0
hcmv-miR-UL112	0	0	0	0	0	0	0	0	0
hcmv-miR-UL148D	0	0	0	0	0	0	0	0	0
hcmv-miR-UL22A	0	0	0	0	0	0	0	0	0
hcmv-miR-UL22A*	0	0	0	0	0	0	0	0	0
hcmv-miR-UL36	0	0	0	0	0	0	0	0	0
hcmv-miR-UL36*	0	0	0	0	0	0	0	0	0
hcmv-miR-UL70-3p	0	0	0	0	0	0	0	0	0
hcmv-miR-UL70-5p	0	0	0	0	0	0	0	0	0
hcmv-miR-US25-1	0	0	0	0	0	0	0	0	0
hcmv-miR-US25-1*	0	0	0	0	0	0	0	0	0
hcmv-miR-US25-2-5p	0	0	0	0	0	0	0	0	0
hcmv-miR-US33-3p	0	0	0	0	0	0	0	0	0
hcmv-miR-US33-5p	0	0	0	0	0	0	0	0	0
hcmv-miR-US4	0	0	0	0	0	0	0	0	0
hcmv-miR-US5-1	0	0	0	0	0	0	0	0	0
hcmv-miR-US5-2	0	0	0	0	0	0	0	0	0
hiv1-miR-H1	0	0	0	0	0	0	0	0	0
hiv1-miR-N367	0	0	0	0	0	0	0	0	0
hiv1-miR-TAR-3p	0	0	0	0	0	0	0	0	0
hiv1-miR-TAR-5p	0	0	0	0	0	0	0	0	0
hsa-let-7a-2*	0	0	0	0	0	0	0	0	0
hsa-miR-1-1*	0	0	0	0	0	0	0	0	0
hsa-miR-1-2*	0	0	0	0	0	0	0	0	0
hsa-miR-103-1*	0	0	0	0	0	0	0	0	0
hsa-miR-105(2)	0	0	0	0	0	0	0	0	0
hsa-miR-105*(2)	0	0	0	0	0	0	0	0	0
hsa-miR-1179*	0	0	0	0	0	0	0	0	0
hsa-miR-1180*	0	0	0	0	0	0	0	0	0
hsa-miR-1193-3p	0	0	0	0	0	0	0	0	0
hsa-miR-1193-5p	0	0	0	0	0	0	0	0	0
hsa-miR-1197	0	0	0	0	0	0	0	0	0
hsa-miR-1197*	0	0	0	0	0	0	0	0	0
hsa-miR-122*	0	0	0	0	0	0	0	0	0
hsa-miR-1245-3p	0	0	0	0	0	0	0	0	0
hsa-miR-1245-5p	0	0	0	0	0	0	0	0	0
hsa-miR-1247*	0	0	0	0	0	0	0	0	0
hsa-miR-1249*	0	0	0	0	0	0	0	0	0
hsa-miR-1250	0	0	0	0	0	0	0	0	0
hsa-miR-1250*	0	0	0	0	0	0	0	0	0
hsa-miR-1252	0	0	0	0	0	0	0	0	0
hsa-miR-1252*	0	0	0	0	0	0	0	0	0
hsa-miR-1255b	0	0	0	0	0	0	0	0	0
hsa-miR-1255b*	0	0	0	0	0	0	0	0	0
hsa-miR-1256-3p	0	0	0	0	0	0	0	0	0
hsa-miR-1256-5p	0	0	0	0	0	0	0	0	0
hsa-miR-1258-3p	0	0	0	0	0	0	0	0	0
hsa-miR-1258-5p	0	0	0	0	0	0	0	0	0
hsa-miR-1263-3p	0	0	0	0	0	0	0	0	0
hsa-miR-1264	0	0	0	0	0	0	0	0	0
hsa-miR-1264*	0	0	0	0	0	0	0	0	0
hsa-miR-1266	0	0	0	0	0	0	0	0	0
hsa-miR-1266*	0	0	0	0	0	0	0	0	0
hsa-miR-1271*	0	0	0	0	0	0	0	0	0
hsa-miR-1278	0	0	0	0	0	0	0	0	0
hsa-miR-1278*	0	0	0	0	0	0	0	0	0
hsa-miR-128-2*	0	0	0	0	0	0	0	0	0
hsa-miR-1283-1-3p	0	0	0	0	0	0	0	0	0
hsa-miR-1283-2-3p	0	0	0	0	0	0	0	0	0
hsa-miR-1283-5p(2)	0	0	0	0	0	0	0	0	0
hsa-miR-1284-3p	0	0	0	0	0	0	0	0	0
hsa-miR-1284-5p	0	0	0	0	0	0	0	0	0
hsa-miR-1286	0	0	0	0	0	0	0	0	0
hsa-miR-1289-3p	0	0	0	0	0	0	0	0	0
hsa-miR-1293-3p	0	0	0	0	0	0	0	0	0
hsa-miR-1293-5p	0	0	0	0	0	0	0	0	0
hsa-miR-1294-3p	0	0	0	0	0	0	0	0	0
hsa-miR-1295	0	0	0	0	0	0	0	0	0
hsa-miR-1295*	0	0	0	0	0	0	0	0	0
hsa-miR-1298-3p	0	0	0	0	0	0	0	0	0
hsa-miR-1298-5p	0	0	0	0	0	0	0	0	0
hsa-miR-1303-3p	0	0	0	0	0	0	0	0	0
hsa-miR-1304-5p	0	0	0	0	0	0	0	0	0

Supplemental Digital Content (SDC)

Supplementary Table S5A: Merged mature miRNA profiles

		IFTA				Stable			
	Total reads over all samples	M1	M2	M3	M4	M5	M6	M7	M8
miRNA/Sample									
hsa-miR-1305*	0	0	0	0	0	0	0	0	0
hsa-miR-1323	0	0	0	0	0	0	0	0	0
hsa-miR-1323*	0	0	0	0	0	0	0	0	0
hsa-miR-133b*	0	0	0	0	0	0	0	0	0
hsa-miR-137*	0	0	0	0	0	0	0	0	0
hsa-miR-1468*	0	0	0	0	0	0	0	0	0
hsa-miR-147*	0	0	0	0	0	0	0	0	0
hsa-miR-149*	0	0	0	0	0	0	0	0	0
hsa-miR-153-1*	0	0	0	0	0	0	0	0	0
hsa-miR-153-2*	0	0	0	0	0	0	0	0	0
hsa-miR-1537	0	0	0	0	0	0	0	0	0
hsa-miR-1537*	0	0	0	0	0	0	0	0	0
hsa-miR-155*	0	0	0	0	0	0	0	0	0
hsa-miR-181d*	0	0	0	0	0	0	0	0	0
hsa-miR-184*	0	0	0	0	0	0	0	0	0
hsa-miR-187*	0	0	0	0	0	0	0	0	0
hsa-miR-1908	0	0	0	0	0	0	0	0	0
hsa-miR-1908*	0	0	0	0	0	0	0	0	0
hsa-miR-190b*	0	0	0	0	0	0	0	0	0
hsa-miR-1910	0	0	0	0	0	0	0	0	0
hsa-miR-1910*	0	0	0	0	0	0	0	0	0
hsa-miR-1911	0	0	0	0	0	0	0	0	0
hsa-miR-1911*	0	0	0	0	0	0	0	0	0
hsa-miR-1912-3p	0	0	0	0	0	0	0	0	0
hsa-miR-1912-5p	0	0	0	0	0	0	0	0	0
hsa-miR-1914-3p	0	0	0	0	0	0	0	0	0
hsa-miR-1914-5p	0	0	0	0	0	0	0	0	0
hsa-miR-194-1*	0	0	0	0	0	0	0	0	0
hsa-miR-196a-1*	0	0	0	0	0	0	0	0	0
hsa-miR-196b*	0	0	0	0	0	0	0	0	0
hsa-miR-197*	0	0	0	0	0	0	0	0	0
hsa-miR-202-3p	0	0	0	0	0	0	0	0	0
hsa-miR-205*	0	0	0	0	0	0	0	0	0
hsa-miR-206*	0	0	0	0	0	0	0	0	0
hsa-miR-208a	0	0	0	0	0	0	0	0	0
hsa-miR-208a*	0	0	0	0	0	0	0	0	0
hsa-miR-208b	0	0	0	0	0	0	0	0	0
hsa-miR-208b*	0	0	0	0	0	0	0	0	0
hsa-miR-211*	0	0	0	0	0	0	0	0	0
hsa-miR-2115	0	0	0	0	0	0	0	0	0
hsa-miR-2115*	0	0	0	0	0	0	0	0	0
hsa-miR-2116-5p	0	0	0	0	0	0	0	0	0
hsa-miR-215*	0	0	0	0	0	0	0	0	0
hsa-miR-216b*	0	0	0	0	0	0	0	0	0
hsa-miR-218-2*	0	0	0	0	0	0	0	0	0
hsa-miR-219-2-3p	0	0	0	0	0	0	0	0	0
hsa-miR-2276-3p	0	0	0	0	0	0	0	0	0
hsa-miR-2276-5p	0	0	0	0	0	0	0	0	0
hsa-miR-2278	0	0	0	0	0	0	0	0	0
hsa-miR-2278*	0	0	0	0	0	0	0	0	0
hsa-miR-25*	0	0	0	0	0	0	0	0	0
hsa-miR-296-5p	0	0	0	0	0	0	0	0	0
hsa-miR-301b*	0	0	0	0	0	0	0	0	0
hsa-miR-302d*	0	0	0	0	0	0	0	0	0
hsa-miR-3115	0	0	0	0	0	0	0	0	0
hsa-miR-3115*	0	0	0	0	0	0	0	0	0
hsa-miR-3120	0	0	0	0	0	0	0	0	0
hsa-miR-3120*	0	0	0	0	0	0	0	0	0
hsa-miR-3124	0	0	0	0	0	0	0	0	0
hsa-miR-3124*	0	0	0	0	0	0	0	0	0
hsa-miR-3126-3p	0	0	0	0	0	0	0	0	0
hsa-miR-3126-5p	0	0	0	0	0	0	0	0	0
hsa-miR-3127-3p	0	0	0	0	0	0	0	0	0
hsa-miR-3129-3p	0	0	0	0	0	0	0	0	0
hsa-miR-3129-5p	0	0	0	0	0	0	0	0	0
hsa-miR-3136*	0	0	0	0	0	0	0	0	0
hsa-miR-3138-3p	0	0	0	0	0	0	0	0	0
hsa-miR-3138-5p	0	0	0	0	0	0	0	0	0
hsa-miR-3139	0	0	0	0	0	0	0	0	0
hsa-miR-3139*	0	0	0	0	0	0	0	0	0
hsa-miR-3140-5p	0	0	0	0	0	0	0	0	0
hsa-miR-3143-3p	0	0	0	0	0	0	0	0	0
hsa-miR-3143-5p	0	0	0	0	0	0	0	0	0

Supplemental Digital Content (SDC)

Supplementary Table S5A: Merged mature miRNA profiles

		IFTA				Stable			
	Total reads over all samples	M1	M2	M3	M4	M5	M6	M7	M8
miRNA/Sample									
hsa-miR-3144	0	0	0	0	0	0	0	0	0
hsa-miR-3145-3p	0	0	0	0	0	0	0	0	0
hsa-miR-3146-3p	0	0	0	0	0	0	0	0	0
hsa-miR-3146-5p	0	0	0	0	0	0	0	0	0
hsa-miR-3149	0	0	0	0	0	0	0	0	0
hsa-miR-3149*	0	0	0	0	0	0	0	0	0
hsa-miR-3150-3p	0	0	0	0	0	0	0	0	0
hsa-miR-3150-5p	0	0	0	0	0	0	0	0	0
hsa-miR-3151	0	0	0	0	0	0	0	0	0
hsa-miR-3151*	0	0	0	0	0	0	0	0	0
hsa-miR-3152	0	0	0	0	0	0	0	0	0
hsa-miR-3152*	0	0	0	0	0	0	0	0	0
hsa-miR-3155-3p	0	0	0	0	0	0	0	0	0
hsa-miR-3157-3p	0	0	0	0	0	0	0	0	0
hsa-miR-3158*	0	0	0	0	0	0	0	0	0
hsa-miR-3170	0	0	0	0	0	0	0	0	0
hsa-miR-3170*	0	0	0	0	0	0	0	0	0
hsa-miR-3171-3p	0	0	0	0	0	0	0	0	0
hsa-miR-3171-5p	0	0	0	0	0	0	0	0	0
hsa-miR-3173*	0	0	0	0	0	0	0	0	0
hsa-miR-3174	0	0	0	0	0	0	0	0	0
hsa-miR-3174*	0	0	0	0	0	0	0	0	0
hsa-miR-3175	0	0	0	0	0	0	0	0	0
hsa-miR-3175*	0	0	0	0	0	0	0	0	0
hsa-miR-3176*	0	0	0	0	0	0	0	0	0
hsa-miR-3177*	0	0	0	0	0	0	0	0	0
hsa-miR-3183	0	0	0	0	0	0	0	0	0
hsa-miR-3183*	0	0	0	0	0	0	0	0	0
hsa-miR-3187*	0	0	0	0	0	0	0	0	0
hsa-miR-3189	0	0	0	0	0	0	0	0	0
hsa-miR-3189*	0	0	0	0	0	0	0	0	0
hsa-miR-3193	0	0	0	0	0	0	0	0	0
hsa-miR-3193*	0	0	0	0	0	0	0	0	0
hsa-miR-3194-5p	0	0	0	0	0	0	0	0	0
hsa-miR-3198	0	0	0	0	0	0	0	0	0
hsa-miR-3198*	0	0	0	0	0	0	0	0	0
hsa-miR-320*-RNASEN	0	0	0	0	0	0	0	0	0
hsa-miR-3200*	0	0	0	0	0	0	0	0	0
hsa-miR-325	0	0	0	0	0	0	0	0	0
hsa-miR-325*	0	0	0	0	0	0	0	0	0
hsa-miR-326*	0	0	0	0	0	0	0	0	0
hsa-miR-328*	0	0	0	0	0	0	0	0	0
hsa-miR-34b*	0	0	0	0	0	0	0	0	0
hsa-miR-3611*	0	0	0	0	0	0	0	0	0
hsa-miR-3612	0	0	0	0	0	0	0	0	0
hsa-miR-3612*	0	0	0	0	0	0	0	0	0
hsa-miR-3614-3p	0	0	0	0	0	0	0	0	0
hsa-miR-3617	0	0	0	0	0	0	0	0	0
hsa-miR-3617*	0	0	0	0	0	0	0	0	0
hsa-miR-3619-5p	0	0	0	0	0	0	0	0	0
hsa-miR-3622-3p	0	0	0	0	0	0	0	0	0
hsa-miR-365-1*	0	0	0	0	0	0	0	0	0
hsa-miR-3657	0	0	0	0	0	0	0	0	0
hsa-miR-3657*	0	0	0	0	0	0	0	0	0
hsa-miR-3659	0	0	0	0	0	0	0	0	0
hsa-miR-3659*	0	0	0	0	0	0	0	0	0
hsa-miR-3664-5p	0	0	0	0	0	0	0	0	0
hsa-miR-3667-3p	0	0	0	0	0	0	0	0	0
hsa-miR-3667-5p	0	0	0	0	0	0	0	0	0
hsa-miR-3677-3p	0	0	0	0	0	0	0	0	0
hsa-miR-3679-3p	0	0	0	0	0	0	0	0	0
hsa-miR-3679-5p	0	0	0	0	0	0	0	0	0
hsa-miR-3680*	0	0	0	0	0	0	0	0	0
hsa-miR-3681	0	0	0	0	0	0	0	0	0
hsa-miR-3681*	0	0	0	0	0	0	0	0	0
hsa-miR-3682-3p	0	0	0	0	0	0	0	0	0
hsa-miR-3682-5p	0	0	0	0	0	0	0	0	0
hsa-miR-3688	0	0	0	0	0	0	0	0	0
hsa-miR-3688*	0	0	0	0	0	0	0	0	0
hsa-miR-3691	0	0	0	0	0	0	0	0	0
hsa-miR-3691*	0	0	0	0	0	0	0	0	0
hsa-miR-371*	0	0	0	0	0	0	0	0	0
hsa-miR-372*	0	0	0	0	0	0	0	0	0

Supplemental Digital Content (SDC)

Supplementary Table S5A: Merged mature miRNA profiles

[illegible]

Supplemental Digital Content (SDC)

Supplementary Table S5A: Merged mature miRNA profiles

[illegible]

Supplemental Digital Content (SDC)

Supplementary Table S5A: Merged mature miRNA profiles

[illegible]

Supplemental Digital Content (SDC)

Supplementary Table S5A: Merged mature miRNA profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
mcmv-miR-M95-1-5p	0	0	0	0	0	0	0	0	0
mcmv-miR-m01-1	0	0	0	0	0	0	0	0	0
mcmv-miR-m01-2	0	0	0	0	0	0	0	0	0
mcmv-miR-m01-2*	0	0	0	0	0	0	0	0	0
mcmv-miR-m01-3	0	0	0	0	0	0	0	0	0
mcmv-miR-m01-4	0	0	0	0	0	0	0	0	0
mcmv-miR-m01-4*	0	0	0	0	0	0	0	0	0
mcmv-miR-m107-1-3p	0	0	0	0	0	0	0	0	0
mcmv-miR-m107-1-5p	0	0	0	0	0	0	0	0	0
mcmv-miR-m108-1	0	0	0	0	0	0	0	0	0
mcmv-miR-m108-1*	0	0	0	0	0	0	0	0	0
mcmv-miR-m108-2-5p.1	0	0	0	0	0	0	0	0	0
mcmv-miR-m108-2-5p.2	0	0	0	0	0	0	0	0	0
mcmv-miR-m21-1	0	0	0	0	0	0	0	0	0
mcmv-miR-m22-1	0	0	0	0	0	0	0	0	0
mcmv-miR-m59-1	0	0	0	0	0	0	0	0	0
mcmv-miR-m59-2	0	0	0	0	0	0	0	0	0
mcmv-miR-m88-1	0	0	0	0	0	0	0	0	0
mcmv-miR-m88-1*	0	0	0	0	0	0	0	0	0
mcv-miR-M1-3p	0	0	0	0	0	0	0	0	0
mcv-miR-M1-5p	0	0	0	0	0	0	0	0	0
mdv1-miR-M1	0	0	0	0	0	0	0	0	0
mdv1-miR-M1*	0	0	0	0	0	0	0	0	0
mdv1-miR-M10-3p	0	0	0	0	0	0	0	0	0
mdv1-miR-M11-3p	0	0	0	0	0	0	0	0	0
mdv1-miR-M11-5p	0	0	0	0	0	0	0	0	0
mdv1-miR-M12	0	0	0	0	0	0	0	0	0
mdv1-miR-M12*	0	0	0	0	0	0	0	0	0
mdv1-miR-M13	0	0	0	0	0	0	0	0	0
mdv1-miR-M2-3p	0	0	0	0	0	0	0	0	0
mdv1-miR-M2-5p	0	0	0	0	0	0	0	0	0
mdv1-miR-M3	0	0	0	0	0	0	0	0	0
mdv1-miR-M3*	0	0	0	0	0	0	0	0	0
mdv1-miR-M31	0	0	0	0	0	0	0	0	0
mdv1-miR-M4	0	0	0	0	0	0	0	0	0
mdv1-miR-M4*	0	0	0	0	0	0	0	0	0
mdv1-miR-M5	0	0	0	0	0	0	0	0	0
mdv1-miR-M5*	0	0	0	0	0	0	0	0	0
mdv1-miR-M6-3p	0	0	0	0	0	0	0	0	0
mdv1-miR-M6-5p	0	0	0	0	0	0	0	0	0
mdv1-miR-M7	0	0	0	0	0	0	0	0	0
mdv1-miR-M7*	0	0	0	0	0	0	0	0	0
mdv1-miR-M8-3p	0	0	0	0	0	0	0	0	0
mdv1-miR-M8-5p	0	0	0	0	0	0	0	0	0
mdv1-miR-M9-3p	0	0	0	0	0	0	0	0	0
mdv1-miR-M9-5p	0	0	0	0	0	0	0	0	0
mdv2-miR-M14-3p	0	0	0	0	0	0	0	0	0
mdv2-miR-M14-5p	0	0	0	0	0	0	0	0	0
mdv2-miR-M15	0	0	0	0	0	0	0	0	0
mdv2-miR-M15*	0	0	0	0	0	0	0	0	0
mdv2-miR-M16	0	0	0	0	0	0	0	0	0
mdv2-miR-M16*	0	0	0	0	0	0	0	0	0
mdv2-miR-M17	0	0	0	0	0	0	0	0	0
mdv2-miR-M17*	0	0	0	0	0	0	0	0	0
mdv2-miR-M18-3p	0	0	0	0	0	0	0	0	0
mdv2-miR-M18-5p	0	0	0	0	0	0	0	0	0
mdv2-miR-M19-3p	0	0	0	0	0	0	0	0	0
mdv2-miR-M19-5p	0	0	0	0	0	0	0	0	0
mdv2-miR-M20	0	0	0	0	0	0	0	0	0
mdv2-miR-M20*	0	0	0	0	0	0	0	0	0
mdv2-miR-M21	0	0	0	0	0	0	0	0	0
mdv2-miR-M21*	0	0	0	0	0	0	0	0	0
mdv2-miR-M22	0	0	0	0	0	0	0	0	0
mdv2-miR-M22*	0	0	0	0	0	0	0	0	0
mdv2-miR-M23	0	0	0	0	0	0	0	0	0
mdv2-miR-M23*	0	0	0	0	0	0	0	0	0
mdv2-miR-M24	0	0	0	0	0	0	0	0	0
mdv2-miR-M24*	0	0	0	0	0	0	0	0	0
mdv2-miR-M25-3p	0	0	0	0	0	0	0	0	0
mdv2-miR-M25-5p	0	0	0	0	0	0	0	0	0
mdv2-miR-M26*	0	0	0	0	0	0	0	0	0
mdv2-miR-M27-3p	0	0	0	0	0	0	0	0	0
mdv2-miR-M27-5p	0	0	0	0	0	0	0	0	0

Supplemental Digital Content (SDC)

Supplementary Table S5A: Merged mature miRNA profiles

		IFTA				Stable			
	Total reads over all samples								
miRNA/Sample		M1	M2	M3	M4	M5	M6	M7	M8
mdv2-miR-M28	0	0	0	0	0	0	0	0	0
mdv2-miR-M28*	0	0	0	0	0	0	0	0	0
mdv2-miR-M29-3p	0	0	0	0	0	0	0	0	0
mdv2-miR-M29-5p	0	0	0	0	0	0	0	0	0
mdv2-miR-M30	0	0	0	0	0	0	0	0	0
mdv2-miR-M30*	0	0	0	0	0	0	0	0	0
mdv2-miR-M32	0	0	0	0	0	0	0	0	0
mdv2-miR-M32*	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-1	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-10	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-10*	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-11-3p	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-11-5p	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-12	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-12*	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-13	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-13*	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-14	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-14*	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-15	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-2-3p	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-3	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-4	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-5	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-6	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-6*	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-7-3p	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-7-5p	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-8	0	0	0	0	0	0	0	0	0
mg hv-miR-M1-9	0	0	0	0	0	0	0	0	0
mg hv-mir-M1-1*	0	0	0	0	0	0	0	0	0
mg hv-mir-M1-2-5p	0	0	0	0	0	0	0	0	0
mg hv-mir-M1-3*	0	0	0	0	0	0	0	0	0
mg hv-mir-M1-4*	0	0	0	0	0	0	0	0	0
mg hv-mir-M1-5*	0	0	0	0	0	0	0	0	0
mg hv-mir-M1-8*	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-1	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-10	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-11	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-12-3p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-12-5p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-13	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-14-3p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-14-5p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-15	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-16-3p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-16-5p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-17	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-18	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-19	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-2	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-20-3p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-20-5p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-21	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-22	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-23-3p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-23-5p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-24-3p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-24-5p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-25	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-26	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-27	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-28	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-29	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-3	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-30	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-31-3p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-31-5p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-32-3p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-32-5p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-33	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-34-3p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-34-5p	0	0	0	0	0	0	0	0	0

Supplemental Digital Content (SDC)

Supplementary Table S5B: MiRNA genomic cluster profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
cluster-hsa-mir-98(13)	234576	13757	107	21689	32075	36099	44229	33599	53020
cluster-hsa-mir-143(2)	148966	3180	57	13441	26693	25864	40935	16402	22394
cluster-hsa-mir-30a(4)	138589	5998	66	11207	9717	22074	33308	23801	32419
cluster-hsa-mir-21(1)	91964	5908	63	6493	30537	6799	10299	7683	24182
cluster-hsa-mir-23a(6)	56752	1933	26	2958	7428	9818	13530	8747	12312
cluster-hsa-mir-10b(1)	28373	1341	12	3236	2208	5071	4937	5912	5658
cluster-hsa-mir-30b(2)	25683	1032	19	1937	2034	3612	6589	5010	5450
cluster-hsa-mir-126(1)	25468	955	5	2634	2786	4503	5336	4835	4414
cluster-hsa-mir-29a(4)	21556	567	4	1723	2953	2746	4805	4574	4184
cluster-hsa-mir-22(1)	20954	955	12	2672	2857	5430	3353	2057	3618
cluster-hsa-mir-26a-1(2)	18951	535	9	1260	2293	2437	3381	2970	6066
cluster-hsa-mir-10a(1)	17699	1051	6	1087	1581	2222	3811	3782	4160
cluster-hsa-mir-135a-1(3)	16866	944	3	1353	2298	2670	3466	2434	3697
cluster-hsa-mir-let-7f(1)	16812	1516	13	1091	3457	1983	2925	2093	3735
cluster-hsa-mir-199a-1(3)	15589	880	9	1117	2623	1282	3318	2373	3987
cluster-hsa-mir-181a-1(4)	13498	597	10	759	1529	1884	3074	1720	3927
cluster-hsa-mir-200a(3)	13485	499	1	714	1374	1289	3270	2096	4244
cluster-hsa-mir-99b(3)	12853	800	8	1043	1244	1742	2808	2001	3209
cluster-hsa-mir-101-1(2)	12505	632	11	1914	1530	2068	1971	1952	2427
cluster-hsa-mir-17(12)	10802	483	2	579	1102	1141	2888	2219	2389
cluster-hsa-mir-192(4)	10312	19	12	2063	803	3597	380	1845	1593
cluster-hsa-mir-221(2)	7698	338	6	452	1400	1136	1518	1075	1776
cluster-hsa-mir-103-1(2)	6761	440	6	404	824	835	1329	1513	1410
cluster-hsa-mir-126b(1)	6267	158	7	701	695	540	1272	1323	1571
cluster-hsa-mir-199b(1)	6014	390	3	441	1088	459	1415	908	1310
cluster-hsa-mir-140(1)	5594	198	1	336	636	1033	1438	1111	841
cluster-hsa-mir-148a(1)	5581	307	5	496	472	1099	1314	871	1018
cluster-hsa-mir-188(8)	5243	244	3	336	327	911	1508	892	1022
cluster-hsa-mir-25(3)	4741	224	1	328	648	782	993	681	1084
cluster-hsa-mir-378(1)	3914	27	4	724	363	1603	197	391	605
cluster-hsa-mir-144(2)	3645	116	1	243	387	776	445	550	1127
cluster-hsa-mir-204(1)	3470	46	1	448	253	839	570	693	621
cluster-hsa-mir-141(2)	2892	134	1	184	364	292	659	443	817
cluster-hsa-mir-320(1)	2775	220	3	185	435	467	495	393	577
cluster-hsa-mir-424(2)	2704	66	1	174	293	218	615	946	391
cluster-hsa-mir-142(1)	2608	69	0	74	1211	142	357	211	544
cluster-hsa-mir-423(1)	2593	210	3	180	163	477	527	436	597
cluster-hsa-mir-374a(4)	2471	68	1	165	294	236	644	441	622
cluster-hsa-mir-15a(4)	2436	71	0	383	304	323	413	386	556
cluster-hsa-mir-151(1)	2398	153	3	183	245	400	528	454	432
cluster-hsa-mir-146b(1)	2320	106	0	65	326	88	153	155	1428
cluster-hsa-mir-130a(1)	2200	76	0	113	306	235	535	458	477
cluster-hsa-mir-195(2)	1993	87	2	95	323	294	470	329	393
cluster-hsa-mir-191(2)	1964	113	0	175	88	316	392	359	521
cluster-hsa-mir-28(1)	1767	75	0	129	235	278	374	250	426
cluster-hsa-mir-148b(1)	1356	99	3	162	153	286	292	238	125
cluster-hsa-mir-134(1)	1257	48	5	170	260	200	230	177	167
cluster-hsa-mir-450a-1(4)	1061	69	3	97	95	174	212	268	143
cluster-hsa-mir-203(1)	1049	145	1	36	81	81	230	239	236
cluster-hsa-mir-107(1)	1036	30	1	139	84	236	155	189	202
cluster-hsa-mir-186(1)	1018	34	0	72	129	152	199	190	242
cluster-hsa-mir-361(1)	972	34	1	65	113	134	197	137	291
cluster-hsa-mir-146a(1)	930	62	0	94	145	191	133	96	210
cluster-hsa-mir-196a-1(3)	847	64	1	65	90	105	166	97	261
cluster-hsa-mir-181c(2)	828	32	0	26	112	88	188	131	251
cluster-hsa-mir-1-1(4)	790	16	0	54	162	123	303	52	81
cluster-hsa-mir-33a(1)	781	21	1	66	70	108	136	111	269
cluster-hsa-mir-455(1)	761	39	1	115	70	170	180	103	83
cluster-hsa-mir-152(1)	670	44	0	72	89	131	165	93	77
cluster-hsa-mir-96(3)	626	50	1	24	143	58	108	68	174
cluster-hsa-mir-196b(1)	621	41	0	38	54	44	137	86	221
cluster-hsa-mir-190a(1)	584	15	0	101	29	131	138	126	44
cluster-hsa-mir-127(8)	559	15	0	73	127	75	101	89	79
cluster-hsa-mir-34a(1)	474	28	0	48	89	34	138	45	92
cluster-hsa-mir-223(1)	466	8	0	25	181	57	59	25	111
cluster-hsa-mir-193a(4)	465	11	0	29	75	64	109	88	89
cluster-hsa-mir-331(1)	459	9	2	37	84	67	57	100	103
cluster-hsa-mir-185(1)	431	31	0	43	70	50	76	76	85
cluster-hsa-mir-9-1(3)	409	24	0	9	52	36	74	144	70
cluster-hsa-mir-506(11)	379	2	0	46	244	26	1	28	32
cluster-hsa-mir-32(1)	350	3	0	29	40	34	85	65	94
cluster-hsa-mir-218-1(3)	317	7	1	78	39	79	41	31	41
cluster-hsa-mir-345(1)	315	10	0	22	36	56	70	49	72

Supplemental Digital Content (SDC)

Supplementary Table S5B: MiRNA genomic cluster profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
cluster-hsa-mir-135b(1)	308	2	0	20	82	18	36	47	103
cluster-hsa-mir-132(2)	280	23	0	14	44	23	43	39	94
cluster-hsa-mir-324(1)	253	10	0	38	28	66	53	19	39
cluster-hsa-mir-224(2)	244	11	0	12	54	24	44	36	63
cluster-hsa-mir-128-1(2)	244	6	0	13	18	70	57	40	40
cluster-hsa-mir-769(1)	221	6	0	19	31	47	42	22	54
cluster-hsa-mir-1307(1)	219	12	0	40	19	61	34	16	37
cluster-hsa-mir-744(1)	209	14	1	25	26	39	46	35	23
cluster-hsa-mir-155(1)	200	22	1	7	52	12	25	22	59
cluster-hsa-mir-574(1)	195	9	0	16	35	26	37	25	47
cluster-hsa-mir-210(1)	186	16	0	7	12	33	50	33	35
cluster-hsa-mir-652(1)	185	25	0	12	28	24	41	29	26
cluster-hsa-mir-760(1)	180	45	10	10	19	18	23	25	30
cluster-hsa-mir-138-1(2)	170	2	0	32	4	44	37	28	23
cluster-hsa-mir-139(1)	170	13	0	17	25	37	33	20	25
cluster-hsa-mir-301a(2)	169	9	0	15	20	15	40	24	46
cluster-hsa-mir-342(1)	147	1	0	9	39	14	31	10	43
cluster-hsa-mir-3613(1)	141	7	0	15	18	25	31	22	23
cluster-hsa-mir-150(1)	140	6	0	6	53	13	20	7	35
cluster-hsa-mir-340(1)	140	1	0	15	19	16	30	22	37
cluster-hsa-mir-708(1)	137	3	0	10	11	26	25	34	28
cluster-hsa-mir-505(1)	127	3	0	15	15	19	17	10	48
cluster-hsa-mir-934(1)	124	10	0	0	2	8	51	24	29
cluster-hsa-mir-504(1)	118	2	1	10	23	7	34	19	22
cluster-hsa-mir-339(1)	105	3	0	10	20	18	24	7	23
cluster-hsa-mir-335(1)	98	4	0	11	14	8	11	20	30
cluster-hsa-mir-484(1)	94	2	0	8	16	21	22	10	15
cluster-hsa-mir-129-1(2)	93	2	0	4	10	19	17	25	16
cluster-hsa-mir-216a(3)	87	0	0	30	1	47	0	6	3
cluster-hsa-mir-629(1)	87	4	1	3	11	19	23	7	19
cluster-hsa-mir-95(1)	80	1	0	6	9	19	20	3	22
cluster-hsa-mir-92b(1)	77	1	0	6	20	5	14	11	20
cluster-hsa-mir-499(1)	75	1	0	4	7	16	19	8	20
cluster-hsa-mir-7-1(3)	73	3	1	7	13	14	11	19	5
cluster-hsa-mir-489(2)	71	2	0	7	5	4	7	10	36
cluster-hsa-mir-338(1)	71	3	0	0	2	16	13	17	20
cluster-hsa-mir-302a(5)	70	13	0	0	0	1	25	18	13
cluster-hsa-mir-34b(2)	67	2	0	3	11	10	8	6	27
cluster-hsa-mir-590(1)	63	1	0	5	3	1	22	19	12
cluster-hsa-mir-625(1)	61	0	0	5	7	9	12	13	15
cluster-hsa-mir-197(1)	55	4	0	5	9	4	11	9	13
cluster-hsa-mir-370(1)	54	3	0	7	7	9	9	9	10
cluster-hsa-mir-582(1)	52	1	0	4	4	5	13	11	14
cluster-hsa-mir-598(1)	50	1	0	5	9	4	15	5	11
cluster-hsa-mir-874(1)	49	1	0	12	8	12	6	3	7
cluster-hsa-mir-375(1)	47	1	0	4	17	2	3	2	18
cluster-hsa-mir-130b(2)	47	0	3	3	13	5	12	7	4
cluster-hsa-mir-328(1)	46	1	0	2	7	11	12	9	4
cluster-hsa-mir-577(1)	41	4	0	1	0	3	19	6	8
cluster-hsa-mir-33b(1)	39	1	0	2	2	10	4	14	7
cluster-hsa-mir-31(1)	35	3	0	0	10	1	10	6	5
cluster-hsa-mir-1277(1)	34	4	0	6	4	4	7	7	2
cluster-hsa-mir-511-1(2)	33	2	0	1	12	5	3	4	6
cluster-hsa-mir-486(1)	31	2	0	4	3	8	8	2	4
cluster-hsa-mir-330(1)	29	1	0	3	7	5	2	3	8
cluster-hsa-mir-628(1)	28	0	0	4	4	3	6	6	5
cluster-hsa-mir-1271(1)	24	1	0	1	1	6	4	2	9
cluster-hsa-mir-296(1)	23	3	0	1	3	4	2	6	4
cluster-hsa-mir-873(2)	22	0	1	6	4	5	1	0	5
cluster-hsa-mir-1301(1)	22	2	0	0	5	1	9	3	2
cluster-hsa-mir-187(1)	17	0	0	3	4	6	0	1	3
cluster-hsa-mir-887(1)	17	0	0	1	1	5	4	2	4
cluster-hsa-mir-3065(1)	17	0	0	2	3	4	5	1	2
hcmv-miR-US25-2-3p	17	4	1	2	3	1	2	2	2
cluster-hsa-mir-1287(1)	17	0	0	3	1	4	3	4	2
cluster-hsa-mir-551b(1)	17	1	0	0	3	1	3	3	6
cluster-hsa-mir-491(1)	16	0	0	1	2	3	5	0	5
cluster-hsa-mir-576(1)	16	1	0	1	1	2	6	2	3
cluster-hsa-mir-651(1)	16	0	0	0	6	0	5	2	3
hvt-miR-H14*	15	1	0	1	3	2	4	2	5
cluster-hsa-mir-1468(1)	15	0	0	1	1	5	3	3	2
cluster-hsa-mir-3117(1)	15	1	0	2	1	1	2	3	5
cluster-hsa-mir-133b(2)	15	0	0	2	3	3	4	1	1

Supplemental Digital Content (SDC)

Supplementary Table S5B: MiRNA genomic cluster profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
cluster-hsa-mir-589(1)	13	0	0	1	3	4	2	0	3
cluster-hsa-mir-326(1)	13	0	0	0	4	2	3	3	1
cluster-hsa-mir-1296(1)	13	1	0	0	3	2	5	0	2
cluster-hsa-mir-122(1)	13	9	0	0	0	0	1	3	0
cluster-hsa-mir-3909(1)	12	0	0	2	1	3	3	1	2
cluster-hsa-mir-618(1)	12	0	0	1	0	1	3	2	5
cluster-hsa-mir-184(1)	11	0	0	3	0	6	0	1	1
cluster-hsa-mir-1251(1)	11	0	0	1	1	7	0	1	1
cluster-hsa-mir-671(1)	10	2	0	0	1	2	1	1	3
cluster-hsa-mir-3605(1)	10	0	0	1	2	3	1	1	2
cluster-hsa-mir-561(1)	10	1	0	1	2	0	3	1	2
cluster-hsa-mir-570(1)	10	0	0	0	0	2	3	3	2
cluster-hsa-mir-219-1(2)	10	0	0	0	2	0	5	3	0
cluster-hsa-mir-888(6)	9	1	0	3	0	3	1	1	0
cluster-hsa-mir-1180(1)	9	0	0	0	4	0	3	0	2
cluster-hsa-mir-483(1)	9	0	0	1	4	0	0	3	1
cluster-hsa-mir-766(1)	9	0	0	0	2	2	2	1	2
cluster-hsa-mir-449a(3)	8	0	0	0	0	2	1	4	1
ebv-miR-BART6-3p	8	3	0	2	0	0	1	1	1
cluster-hsa-mir-211(1)	8	0	0	1	1	2	0	2	3
cluster-hsa-mir-488(1)	8	0	0	0	1	0	1	3	3
cluster-hsa-mir-149(1)	8	0	0	2	0	0	5	0	1
cluster-hsa-mir-2355(1)	7	0	0	1	2	0	2	1	1
cluster-hsa-mir-147(1)	7	0	0	0	1	4	1	1	0
cluster-hsa-mir-1247(1)	7	0	0	2	4	0	0	1	0
cluster-hsa-mir-3158(1)	7	0	0	0	0	0	3	2	2
cluster-hsa-mir-513c(1)	7	0	0	0	5	0	1	1	0
cluster-hsa-mir-675(1)	7	0	0	1	2	2	1	1	0
cluster-hsa-mir-2114(1)	7	0	0	1	2	3	0	0	1
cluster-hsa-mir-556(1)	7	0	0	0	0	1	4	2	0
cluster-hsa-mir-124-1(3)	6	0	0	0	1	2	0	3	0
cluster-hsa-mir-627(1)	6	0	0	0	0	1	2	0	3
cluster-hsa-mir-190b(1)	6	0	0	1	1	0	3	0	1
cluster-hsa-mir-592(1)	6	0	0	0	1	1	0	2	2
cluster-hsa-mir-3611(1)	5	1	0	0	2	0	1	1	0
cluster-hsa-mir-137(1)	5	0	0	0	0	0	4	0	1
cluster-hsa-mir-3200(1)	5	0	0	2	1	1	0	0	1
cluster-hsa-mir-550-1(2)	5	0	0	0	2	1	1	1	0
cluster-hsa-mir-1269(1)	4	0	0	0	1	1	0	1	1
cluster-hsa-mir-514b(1)	4	0	0	0	2	0	0	0	2
cluster-hsa-mir-1306(1)	4	0	0	0	1	1	1	0	1
cluster-hsa-mir-1270-1(1)	4	0	0	2	0	1	0	1	1
cluster-hsa-mir-1270-2(1)	4	0	0	2	0	1	0	1	1
cluster-hsa-mir-599(2)	4	0	0	0	4	0	0	0	0
cluster-hsa-mir-624(1)	4	0	0	0	0	2	0	1	1
cluster-hsa-mir-1249(1)	4	0	0	0	0	1	2	0	1
cluster-hsa-mir-584(1)	4	0	0	0	0	2	1	0	1
cluster-hsa-mir-2110(1)	3	1	0	0	0	1	0	1	0
cluster-hsa-mir-3912(1)	3	0	0	0	0	0	1	1	1
cluster-hsa-mir-3074(1)	3	1	0	0	1	0	0	1	0
cluster-hsa-mir-942(1)	3	0	0	0	0	1	0	1	1
cluster-hsa-mir-153-1(2)	3	0	0	0	0	1	2	0	0
cluster-hsa-mir-2116(1)	3	0	0	0	0	0	2	0	1
cluster-hsa-mir-3130(1)	3	0	0	0	0	2	0	0	1
cluster-hsa-mir-3173(1)	3	1	0	0	0	0	0	1	1
cluster-hsa-mir-3194(1)	3	0	0	0	1	0	2	0	0
cluster-hsa-mir-371(3)	3	0	0	0	0	1	2	0	0
cluster-hsa-mir-580(1)	3	0	0	0	0	1	2	0	0
cluster-hsa-mir-1294(1)	2	1	0	0	0	0	0	1	0
cluster-hsa-mir-643(1)	2	0	0	0	1	0	0	1	0
cluster-hsa-mir-1304(1)	2	0	0	1	0	1	0	0	0
cluster-hsa-mir-202(1)	2	0	0	0	0	0	0	0	2
cluster-hsa-mir-205(1)	2	0	0	0	0	0	2	0	0
cluster-hsa-mir-2277(1)	2	0	0	0	1	0	0	0	1
cluster-hsa-mir-3177(1)	2	1	0	0	0	0	0	1	0
cluster-hsa-mir-346(1)	2	0	0	0	1	0	0	1	0
cluster-hsa-mir-551a(1)	2	0	0	1	0	0	0	0	1
cluster-hsa-mir-579(1)	2	0	0	0	0	0	1	0	1
cluster-hsa-mir-597(1)	2	0	0	0	0	0	1	1	0
cluster-hsa-mir-616(1)	2	0	0	0	0	2	0	0	0
cluster-hsa-mir-676(1)	2	0	0	0	0	1	1	0	0
cluster-hsa-mir-4326(1)	2	0	0	2	0	0	0	0	0
cluster-hsa-mir-1179(1)	1	0	0	0	0	0	1	0	0

Supplemental Digital Content (SDC)

Supplementary Table S5B: MiRNA genomic cluster profiles

[illegible]

Supplemental Digital Content (SDC)

Supplementary Table S5B: MiRNA genomic cluster profiles

		IFTA				Stable			
	Total reads over all samples								
miRNA/Sample		M1	M2	M3	M4	M5	M6	M7	M8
cluster-hsa-mir-1298(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-1537(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-1908(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-1910(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-1911(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-1914(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-208a(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-208b(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-2115(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-2276(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-2278(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3115(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3120(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3124(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3126(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3129(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3138(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3139(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3143(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3146(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3149(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3150(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3151(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3152(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3170(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3171(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3174(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3175(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3183(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3189(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3193(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3198(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-325(2)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3612(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3617(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3657(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3659(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3667(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3679(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3681(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3682(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3688(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3691(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3910(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3919(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3922(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3934(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3938(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3939(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3940(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3942(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-3944(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-448(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-466(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-490(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-513b(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-549(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-552(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-610(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-670(1)	0	0	0	0	0	0	0	0	0
cluster-hsa-mir-770(1)	0	0	0	0	0	0	0	0	0
ebv-miR-BART1-3p	0	0	0	0	0	0	0	0	0
ebv-miR-BART1-5p	0	0	0	0	0	0	0	0	0
ebv-miR-BART10	0	0	0	0	0	0	0	0	0
ebv-miR-BART10*	0	0	0	0	0	0	0	0	0
ebv-miR-BART11-3p	0	0	0	0	0	0	0	0	0
ebv-miR-BART11-5p	0	0	0	0	0	0	0	0	0
ebv-miR-BART12	0	0	0	0	0	0	0	0	0
ebv-miR-BART13	0	0	0	0	0	0	0	0	0
ebv-miR-BART13*	0	0	0	0	0	0	0	0	0
ebv-miR-BART14	0	0	0	0	0	0	0	0	0
ebv-miR-BART14*	0	0	0	0	0	0	0	0	0
ebv-miR-BART15	0	0	0	0	0	0	0	0	0

Supplemental Digital Content (SDC)

Supplementary Table S5B: MiRNA genomic cluster profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
ebv-miR-BART16	0	0	0	0	0	0	0	0	0
ebv-miR-BART17-3p	0	0	0	0	0	0	0	0	0
ebv-miR-BART17-5p	0	0	0	0	0	0	0	0	0
ebv-miR-BART18-3p	0	0	0	0	0	0	0	0	0
ebv-miR-BART18-5p	0	0	0	0	0	0	0	0	0
ebv-miR-BART19-3p	0	0	0	0	0	0	0	0	0
ebv-miR-BART19-5p	0	0	0	0	0	0	0	0	0
ebv-miR-BART2-3p	0	0	0	0	0	0	0	0	0
ebv-miR-BART2-5p	0	0	0	0	0	0	0	0	0
ebv-miR-BART20-3p	0	0	0	0	0	0	0	0	0
ebv-miR-BART20-5p	0	0	0	0	0	0	0	0	0
ebv-miR-BART21-3p	0	0	0	0	0	0	0	0	0
ebv-miR-BART21-5p	0	0	0	0	0	0	0	0	0
ebv-miR-BART22	0	0	0	0	0	0	0	0	0
ebv-miR-BART3	0	0	0	0	0	0	0	0	0
ebv-miR-BART3*	0	0	0	0	0	0	0	0	0
ebv-miR-BART4	0	0	0	0	0	0	0	0	0
ebv-miR-BART4*	0	0	0	0	0	0	0	0	0
ebv-miR-BART5	0	0	0	0	0	0	0	0	0
ebv-miR-BART5*	0	0	0	0	0	0	0	0	0
ebv-miR-BART6-5p	0	0	0	0	0	0	0	0	0
ebv-miR-BART7	0	0	0	0	0	0	0	0	0
ebv-miR-BART7*	0	0	0	0	0	0	0	0	0
ebv-miR-BART8	0	0	0	0	0	0	0	0	0
ebv-miR-BART8*	0	0	0	0	0	0	0	0	0
ebv-miR-BART9	0	0	0	0	0	0	0	0	0
ebv-miR-BART9*	0	0	0	0	0	0	0	0	0
ebv-miR-BHRF1-1	0	0	0	0	0	0	0	0	0
ebv-miR-BHRF1-2	0	0	0	0	0	0	0	0	0
ebv-miR-BHRF1-2*	0	0	0	0	0	0	0	0	0
ebv-miR-BHRF1-3	0	0	0	0	0	0	0	0	0
hbv-miR-B20	0	0	0	0	0	0	0	0	0
hbv-miR-B2RC	0	0	0	0	0	0	0	0	0
hbv-miR-B4	0	0	0	0	0	0	0	0	0
hcmv-miR-UL112	0	0	0	0	0	0	0	0	0
hcmv-miR-UL148D	0	0	0	0	0	0	0	0	0
hcmv-miR-UL22A	0	0	0	0	0	0	0	0	0
hcmv-miR-UL22A*	0	0	0	0	0	0	0	0	0
hcmv-miR-UL36	0	0	0	0	0	0	0	0	0
hcmv-miR-UL36*	0	0	0	0	0	0	0	0	0
hcmv-miR-UL70-3p	0	0	0	0	0	0	0	0	0
hcmv-miR-UL70-5p	0	0	0	0	0	0	0	0	0
hcmv-miR-US25-1	0	0	0	0	0	0	0	0	0
hcmv-miR-US25-1*	0	0	0	0	0	0	0	0	0
hcmv-miR-US25-2-5p	0	0	0	0	0	0	0	0	0
hcmv-miR-US33-3p	0	0	0	0	0	0	0	0	0
hcmv-miR-US33-5p	0	0	0	0	0	0	0	0	0
hcmv-miR-US4	0	0	0	0	0	0	0	0	0
hcmv-miR-US5-1	0	0	0	0	0	0	0	0	0
hcmv-miR-US5-2	0	0	0	0	0	0	0	0	0
hiv1-miR-H1	0	0	0	0	0	0	0	0	0
hiv1-miR-N367	0	0	0	0	0	0	0	0	0
hiv1-miR-TAR-3p	0	0	0	0	0	0	0	0	0
hiv1-miR-TAR-5p	0	0	0	0	0	0	0	0	0
hsv1-miR-H1	0	0	0	0	0	0	0	0	0
hsv1-miR-H1*	0	0	0	0	0	0	0	0	0
hsv1-miR-H11	0	0	0	0	0	0	0	0	0
hsv1-miR-H12	0	0	0	0	0	0	0	0	0
hsv1-miR-H13	0	0	0	0	0	0	0	0	0
hsv1-miR-H14-3p	0	0	0	0	0	0	0	0	0
hsv1-miR-H14-5p	0	0	0	0	0	0	0	0	0
hsv1-miR-H15	0	0	0	0	0	0	0	0	0
hsv1-miR-H16	0	0	0	0	0	0	0	0	0
hsv1-miR-H17	0	0	0	0	0	0	0	0	0
hsv1-miR-H2	0	0	0	0	0	0	0	0	0
hsv1-miR-H2*	0	0	0	0	0	0	0	0	0
hsv1-miR-H3	0	0	0	0	0	0	0	0	0
hsv1-miR-H3*	0	0	0	0	0	0	0	0	0
hsv1-miR-H4	0	0	0	0	0	0	0	0	0
hsv1-miR-H4*	0	0	0	0	0	0	0	0	0
hsv1-miR-H5-3p	0	0	0	0	0	0	0	0	0
hsv1-miR-H5-5p	0	0	0	0	0	0	0	0	0
hsv1-miR-H6-3p	0	0	0	0	0	0	0	0	0

Supplemental Digital Content (SDC)

Supplementary Table S5B: MiRNA genomic cluster profiles

		IFTA				Stable			
miRNA/Sample	Total reads over all samples	M1	M2	M3	M4	M5	M6	M7	M8
hsv1-miR-H6-5p	0	0	0	0	0	0	0	0	0
hsv1-miR-H7*	0	0	0	0	0	0	0	0	0
hsv1-miR-H8	0	0	0	0	0	0	0	0	0
hsv1-miR-H8*	0	0	0	0	0	0	0	0	0
hsv2-miR-H10	0	0	0	0	0	0	0	0	0
hsv2-miR-H11	0	0	0	0	0	0	0	0	0
hsv2-miR-H11*	0	0	0	0	0	0	0	0	0
hsv2-miR-H12	0	0	0	0	0	0	0	0	0
hsv2-miR-H13	0	0	0	0	0	0	0	0	0
hsv2-miR-H19	0	0	0	0	0	0	0	0	0
hsv2-miR-H2	0	0	0	0	0	0	0	0	0
hsv2-miR-H20	0	0	0	0	0	0	0	0	0
hsv2-miR-H21	0	0	0	0	0	0	0	0	0
hsv2-miR-H23	0	0	0	0	0	0	0	0	0
hsv2-miR-H23*	0	0	0	0	0	0	0	0	0
hsv2-miR-H24	0	0	0	0	0	0	0	0	0
hsv2-miR-H25	0	0	0	0	0	0	0	0	0
hsv2-miR-H3	0	0	0	0	0	0	0	0	0
hsv2-miR-H4-3p	0	0	0	0	0	0	0	0	0
hsv2-miR-H4-5p	0	0	0	0	0	0	0	0	0
hsv2-miR-H5	0	0	0	0	0	0	0	0	0
hsv2-miR-H6	0	0	0	0	0	0	0	0	0
hsv2-miR-H6*	0	0	0	0	0	0	0	0	0
hsv2-miR-H7-3p	0	0	0	0	0	0	0	0	0
hsv2-miR-H7-5p	0	0	0	0	0	0	0	0	0
hsv2-miR-H9-3p	0	0	0	0	0	0	0	0	0
hsv2-miR-H9-5p	0	0	0	0	0	0	0	0	0
hvt-miR-H1	0	0	0	0	0	0	0	0	0
hvt-miR-H10	0	0	0	0	0	0	0	0	0
hvt-miR-H11	0	0	0	0	0	0	0	0	0
hvt-miR-H12-3p	0	0	0	0	0	0	0	0	0
hvt-miR-H12-5p	0	0	0	0	0	0	0	0	0
hvt-miR-H13	0	0	0	0	0	0	0	0	0
hvt-miR-H14	0	0	0	0	0	0	0	0	0
hvt-miR-H15	0	0	0	0	0	0	0	0	0
hvt-miR-H15*	0	0	0	0	0	0	0	0	0
hvt-miR-H16-3p	0	0	0	0	0	0	0	0	0
hvt-miR-H16-5p	0	0	0	0	0	0	0	0	0
hvt-miR-H17	0	0	0	0	0	0	0	0	0
hvt-miR-H17*	0	0	0	0	0	0	0	0	0
hvt-miR-H18-3p	0	0	0	0	0	0	0	0	0
hvt-miR-H18-5p	0	0	0	0	0	0	0	0	0
hvt-miR-H2	0	0	0	0	0	0	0	0	0
hvt-miR-H3-3p	0	0	0	0	0	0	0	0	0
hvt-miR-H3-5p	0	0	0	0	0	0	0	0	0
hvt-miR-H4	0	0	0	0	0	0	0	0	0
hvt-miR-H4*	0	0	0	0	0	0	0	0	0
hvt-miR-H5*	0	0	0	0	0	0	0	0	0
hvt-miR-H7-3p	0	0	0	0	0	0	0	0	0
hvt-miR-H7-5p	0	0	0	0	0	0	0	0	0
hvt-miR-H8	0	0	0	0	0	0	0	0	0
hvt-miR-H9-3p	0	0	0	0	0	0	0	0	0
hvt-miR-H9-5p	0	0	0	0	0	0	0	0	0
iltv-miR-I1	0	0	0	0	0	0	0	0	0
iltv-miR-I1*	0	0	0	0	0	0	0	0	0
iltv-miR-I2	0	0	0	0	0	0	0	0	0
iltv-miR-I3	0	0	0	0	0	0	0	0	0
iltv-miR-I4	0	0	0	0	0	0	0	0	0
iltv-miR-I5*	0	0	0	0	0	0	0	0	0
iltv-miR-I6	0	0	0	0	0	0	0	0	0
iltv-miR-I6*	0	0	0	0	0	0	0	0	0
iltv-miR-I7	0	0	0	0	0	0	0	0	0
jcv-miR-J1-3p	0	0	0	0	0	0	0	0	0
kshv-miR-K12-1	0	0	0	0	0	0	0	0	0
kshv-miR-K12-1*	0	0	0	0	0	0	0	0	0
kshv-miR-K12-10a	0	0	0	0	0	0	0	0	0
kshv-miR-K12-10a*	0	0	0	0	0	0	0	0	0
kshv-miR-K12-10b	0	0	0	0	0	0	0	0	0
kshv-miR-K12-11	0	0	0	0	0	0	0	0	0
kshv-miR-K12-11*	0	0	0	0	0	0	0	0	0
kshv-miR-K12-12	0	0	0	0	0	0	0	0	0
kshv-miR-K12-12*	0	0	0	0	0	0	0	0	0
kshv-miR-K12-2	0	0	0	0	0	0	0	0	0

Supplemental Digital Content (SDC)

Supplementary Table S5B: MiRNA genomic cluster profiles

[illegible]

Supplemental Digital Content (SDC)

Supplementary Table S5B: MiRNA genomic cluster profiles

[illegible]

Supplemental Digital Content (SDC)

Supplementary Table S5C: MiRNA sequence family profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
sf-hsa-let-7a-1(12)	235046	15334	112	21487	30721	34941	44507	34292	53652
sf-hsa-miR-30a(6)	149553	6323	80	11974	10572	23123	36658	26249	34574
sf-hsa-miR-143(1)	109985	2519	41	8329	19445	16130	32314	12785	18422
sf-hsa-miR-21(1)	91868	5907	63	6482	30488	6794	10291	7677	24166
sf-hsa-miR-10a(2)	45395	2344	18	4294	3723	7160	8653	9570	9635
sf-hsa-miR-145(1)	35988	510	15	4867	6803	9350	7639	3249	3555
sf-hsa-miR-99a(3)	29220	1116	13	2580	5387	4811	5130	4110	6074
sf-hsa-miR-26a-1(3)	25194	693	16	1958	2983	2975	4648	4290	7631
sf-hsa-miR-23a(2)	25019	623	8	1355	3699	4836	6414	3559	4525
sf-hsa-miR-126(1)	21293	888	4	2166	2354	3978	4324	3758	3821
sf-hsa-miR-29a(4)	21206	558	4	1689	2900	2666	4737	4530	4122
sf-hsa-miR-22(1)	20852	954	12	2660	2846	5402	3329	2042	3607
sf-hsa-miR-27a(2)	17877	556	8	949	2258	3053	3752	3164	4137
sf-hsa-miR-199a-1-3p(3)	17820	1155	5	1308	3224	1375	4156	2728	3869
sf-hsa-miR-141(5)	16254	630	2	888	1727	1567	3903	2522	5015
sf-hsa-miR-125a(3)	14957	521	5	957	2708	2420	3389	1487	3470
sf-hsa-miR-181a-1(6)	13919	616	10	766	1584	1926	3173	1776	4068
sf-hsa-miR-30a*(3)	13620	652	5	1097	1108	2366	2982	2361	3049
sf-hsa-miR-24-1(2)	13304	729	10	609	1392	1854	3244	1935	3531
sf-hsa-miR-101-1(2)	12469	632	11	1908	1526	2063	1965	1945	2419
sf-hsa-miR-103-1(3)	7794	470	7	543	907	1070	1484	1702	1611
sf-hsa-miR-148a(3)	7527	444	8	721	705	1500	1754	1191	1204
sf-hsa-miR-192(2)	6838	11	9	1261	565	2489	273	1211	1019
sf-hsa-miR-221(1)	5730	249	4	368	1015	910	1194	778	1215
sf-hsa-miR-19a(3)	4839	191	0	171	551	277	1460	1225	964
sf-hsa-miR-25(4)	4793	186	0	302	601	759	1140	654	1151
sf-hsa-miR-140-3p(1)	4759	178	0	321	582	914	1215	878	671
sf-hsa-miR-17(8)	4248	221	3	282	504	660	918	684	976
sf-hsa-miR-126*(1)	4175	67	1	468	432	525	1012	1077	593
sf-hsa-miR-378(1)	3900	27	4	717	363	1598	196	391	604
sf-hsa-miR-199a-1-5p(3)	3684	113	7	240	474	352	562	541	1395
sf-hsa-miR-204(2)	3453	45	1	444	252	829	564	695	623
sf-hsa-miR-194-1(2)	3407	8	3	782	234	1084	107	629	560
sf-hsa-miR-451-DICER1(1)	3318	111	1	232	362	736	388	456	1032
sf-hsa-miR-146a(2)	3203	166	0	156	463	272	284	250	1612
sf-hsa-miR-320-RNASEN(1)	2775	220	3	185	435	467	495	393	577
sf-hsa-miR-424(1)	2546	58	1	153	276	206	592	905	355
sf-hsa-miR-423-3p(1)	2381	177	3	161	144	428	468	419	581
sf-hsa-miR-130a(2)	2216	76	3	112	312	236	539	460	478
sf-hsa-miR-143*(1)	2173	140	1	172	332	261	700	297	270
sf-hsa-miR-374a(2)	2110	58	1	141	258	191	554	385	522
sf-hsa-miR-142-3p(1)	2001	54	0	63	966	117	277	135	389
sf-hsa-miR-16-1(3)	1927	64	2	300	247	259	365	245	445
sf-hsa-miR-222(1)	1925	89	2	82	377	220	317	289	549
sf-hsa-miR-151-3p(1)	1856	132	2	152	195	338	374	325	338
sf-hsa-miR-191(1)	1726	99	0	145	56	273	366	331	456
sf-hsa-miR-497(1)	1668	72	0	70	284	250	391	278	323
sf-hsa-miR-532(1)	1567	78	2	130	98	304	456	235	264
sf-hsa-miR-196a-1(3)	1370	100	1	90	127	127	290	168	467
sf-hsa-miR-363(1)	1355	89	0	132	73	187	302	287	285
sf-hsa-miR-30b*(3)	1099	54	0	73	71	197	257	201	246
sf-hsa-miR-28-5p(2)	1061	39	0	79	127	154	233	171	258
sf-hsa-miR-203(1)	1042	144	1	36	81	81	228	237	234
sf-hsa-miR-501-3p(2)	1021	61	1	47	71	165	252	227	197
sf-hsa-miR-186(1)	1014	33	0	72	128	152	199	189	241
sf-hsa-miR-361-5p(1)	915	27	1	49	105	124	196	130	283
sf-hsa-miR-140-5p(1)	835	20	1	15	54	119	223	233	170
sf-hsa-miR-135a-1(3)	826	3	0	92	141	105	126	111	248
sf-hsa-miR-28-3p(1)	824	39	0	58	119	145	163	110	190
sf-hsa-miR-145a*(1)	820	11	0	73	113	123	282	71	147
sf-hsa-miR-33a(2)	815	22	1	68	72	118	138	124	272
sf-hsa-miR-500a(1)	797	56	0	48	59	146	213	89	188
sf-hsa-miR-15a(2)	770	20	0	99	91	95	118	177	170
sf-hsa-miR-1-1(3)	765	15	0	54	159	118	292	46	81
sf-hsa-miR-660(1)	736	3	0	58	44	131	249	106	145
sf-hsa-miR-10a*(2)	677	48	0	28	66	133	95	124	183
sf-hsa-miR-142-5p(1)	607	15	0	11	245	25	80	76	155
sf-hsa-miR-542(1)	598	29	1	46	52	106	135	142	87
sf-hsa-miR-190a(2)	574	15	0	101	29	130	135	120	44
sf-hsa-miR-455-3p(1)	559	28	0	64	60	136	128	83	60
sf-hsa-miR-151-5p(1)	542	21	1	31	50	62	154	129	94
sf-hsa-miR-34a(4)	536	30	0	50	96	44	146	53	117
sf-hsa-miR-125b-2*(1)	507	24	0	17	72	96	114	70	114

Supplemental Digital Content (SDC)

Supplementary Table S5C: MiRNA sequence family profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
sf-hsa-let-7a-1*(11)	489	10	1	40	69	58	141	56	114
sf-hsa-miR-223(1)	464	8	0	25	179	57	59	25	111
sf-hsa-miR-362-5p(3)	456	25	0	25	9	71	144	92	90
sf-hsa-miR-331(1)	450	9	2	37	82	66	56	99	99
sf-hsa-miR-450a-1(3)	423	39	2	48	40	62	70	116	46
sf-hsa-miR-185(1)	413	30	0	42	69	44	72	74	82
sf-hsa-miR-9-1(3)	403	24	0	9	51	36	73	141	69
sf-hsa-miR-32(1)	345	3	0	28	40	34	84	64	92
sf-hsa-miR-24-1*(2)	329	7	0	26	48	47	80	46	75
sf-hsa-miR-345(1)	314	10	0	22	36	56	70	48	72
sf-hsa-miR-374a*(1)	309	9	0	19	31	37	82	48	83
sf-hsa-miR-218-1(2)	293	7	1	76	35	74	33	27	40
sf-hsa-miR-193a-3p(2)	284	7	0	16	46	28	72	63	52
sf-hsa-miR-532-3p(2)	272	16	0	12	17	43	69	49	66
sf-hsa-miR-182(1)	252	24	0	14	51	27	39	30	67
sf-hsa-miR-144(1)	250	3	0	7	19	25	50	81	65
sf-hsa-miR-183(1)	246	14	1	5	62	22	40	23	79
sf-hsa-miR-128-1(2)	243	6	0	13	17	70	57	40	40
sf-hsa-miR-127-3p(1)	230	9	0	34	54	31	47	31	24
sf-hsa-miR-29c*(1)	222	6	0	16	33	49	44	33	41
sf-hsa-miR-769(1)	218	6	0	19	31	46	40	22	54
sf-hsa-miR-181a-1*(2)	213	3	0	11	44	29	31	40	55
sf-hsa-miR-423-5p(1)	212	33	0	19	19	49	59	17	16
sf-hsa-miR-744(1)	207	14	1	24	26	38	46	35	23
sf-hsa-miR-455-5p(1)	202	11	1	51	10	34	52	20	23
sf-hsa-miR-155(1)	200	22	1	7	52	12	25	22	59
sf-hsa-miR-514a-1(4)	199	0	0	24	121	14	1	23	16
sf-hsa-miR-1307*(1)	196	12	0	38	16	53	30	14	33
sf-hsa-miR-132-3p(1)	195	16	0	10	30	15	32	32	60
sf-hsa-miR-27a*(2)	192	16	0	18	29	23	33	37	36
sf-hsa-miR-181a-2*(1)	188	9	0	7	12	16	55	34	55
sf-hsa-miR-210(1)	185	16	0	7	12	33	49	33	35
sf-hsa-miR-425(1)	183	11	0	24	25	34	16	20	53
sf-hsa-miR-652(1)	182	25	0	12	27	24	40	28	26
sf-hsa-miR-376c(1)	180	9	0	18	31	29	42	34	17
sf-hsa-miR-760(1)	180	45	10	10	19	18	23	25	30
sf-hsa-miR-324(1)	174	6	0	32	19	46	42	12	17
sf-hsa-miR-138-1(2)	166	2	0	32	4	42	36	27	23
sf-hsa-miR-139(1)	158	11	0	16	22	34	31	19	25
sf-hsa-miR-452(1)	156	8	0	10	24	12	29	28	45
sf-hsa-miR-17*(3)	148	11	0	13	13	17	31	20	43
sf-hsa-miR-150(1)	138	5	0	6	53	13	20	7	34
sf-hsa-miR-362-3p(1)	135	0	0	1	8	8	62	39	17
sf-hsa-miR-3613(1)	132	7	0	15	17	22	28	20	23
sf-hsa-miR-340(1)	132	1	0	15	19	15	27	22	33
sf-hsa-miR-136-5p(1)	130	1	0	13	27	14	19	34	22
sf-hsa-miR-29a*(3)	128	3	0	18	20	31	24	11	21
sf-hsa-miR-342(1)	127	1	0	9	30	11	27	8	41
sf-hsa-miR-96(1)	125	12	0	5	29	8	29	14	28
sf-hsa-miR-301a(2)	122	5	0	11	20	13	25	16	32
sf-hsa-miR-504(1)	118	2	1	10	23	7	34	19	22
sf-hsa-miR-934(1)	118	8	0	0	2	8	50	23	27
sf-hsa-miR-574-3p(1)	114	6	0	6	19	16	27	14	26
sf-hsa-miR-376a-1-3p(3)	114	0	0	15	24	28	22	14	11
sf-hsa-miR-505(1)	113	2	0	13	12	18	15	8	45
sf-hsa-miR-200a*(2)	112	1	0	9	10	13	24	14	41
sf-hsa-let-7i*(1)	112	2	0	3	24	11	12	26	34
sf-hsa-miR-95(2)	105	2	0	9	12	26	20	6	30
sf-hsa-miR-377(1)	104	3	0	7	23	17	12	26	16
sf-hsa-miR-22*(1)	102	1	0	12	11	28	24	15	11
sf-hsa-miR-99b*(1)	101	4	0	11	9	31	22	7	17
sf-hsa-miR-503(1)	101	8	0	13	14	9	14	23	20
sf-hsa-miR-409-3p(1)	99	5	1	23	22	19	12	9	8
sf-hsa-miR-21*(1)	96	1	0	11	49	5	8	6	16
sf-hsa-miR-501-5p(1)	94	3	0	4	9	15	27	18	18
sf-hsa-miR-484-RNASEN(1)	94	2	0	8	16	21	22	10	15
sf-hsa-miR-193a-5p(1)	91	2	0	3	15	19	19	12	21
sf-hsa-miR-127-5p(1)	86	2	0	7	24	16	13	13	11
sf-hsa-miR-629(1)	85	4	1	3	11	19	23	6	18
sf-hsa-miR-339-3p(1)	83	3	0	9	18	15	16	2	20
sf-hsa-miR-188(1)	83	1	0	4	7	12	12	24	23
sf-hsa-miR-106b*(1)	81	7	0	4	8	11	15	15	21
sf-hsa-miR-381(3)	81	1	0	12	25	12	15	6	10

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Supplementary Table S5C: MiRNA sequence family profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
sf-hsa-miR-574-5p(1)	81	3	0	10	16	10	10	11	21
sf-hsa-miR-324*(1)	79	4	0	6	9	20	11	7	22
sf-hsa-miR-144*(1)	77	2	0	4	6	15	7	13	30
sf-hsa-miR-365-1(2)	76	1	0	6	9	15	18	12	15
sf-hsa-miR-508(1)	75	1	0	6	53	5	0	1	9
sf-hsa-miR-20a*(1)	71	2	0	4	9	4	15	11	26
sf-hsa-miR-129-1-3p(2)	71	2	0	3	8	14	14	20	10
sf-hsa-miR-499(1)	70	1	0	4	7	14	18	7	19
sf-hsa-miR-411(1)	68	2	0	5	17	6	14	11	13
sf-hsa-miR-379(1)	66	2	0	14	12	6	12	10	10
sf-hsa-miR-224(1)	66	2	0	2	22	8	12	7	13
sf-hsa-miR-154-5p(7)	62	4	0	6	15	9	11	7	10
sf-hsa-miR-132-5p(1)	60	2	0	4	11	6	7	7	23
sf-hsa-miR-217(1)	59	0	0	19	1	34	0	3	2
sf-hsa-miR-323b*(4)	58	6	1	5	11	7	13	6	9
sf-hsa-miR-7-1(3)	58	2	1	7	8	10	10	16	4
sf-hsa-miR-361-3p(1)	57	7	0	16	8	10	1	7	8
sf-hsa-miR-335-5p(1)	56	2	0	4	7	5	9	11	18
sf-hsa-miR-125b-1*(1)	56	2	0	3	9	6	8	7	21
sf-hsa-miR-134(1)	55	7	2	7	6	8	9	6	10
sf-hsa-miR-197(1)	55	4	0	5	9	4	11	9	13
sf-hsa-miR-425*(1)	54	3	0	6	7	9	10	8	11
sf-hsa-miR-615-3p(1)	54	3	0	8	9	8	9	7	10
sf-hsa-miR-424*(1)	53	0	0	8	2	3	9	18	13
sf-hsa-miR-370(1)	52	3	0	7	7	9	8	8	10
sf-hsa-miR-214-3p(1)	52	1	0	7	4	8	11	4	17
sf-hsa-miR-454(1)	52	4	0	4	3	4	14	8	15
sf-hsa-miR-502*(1)	51	0	0	4	3	11	17	7	9
sf-hsa-miR-509-1-3p(3)	50	1	0	8	32	5	0	1	3
sf-hsa-miR-148a*(1)	50	3	0	6	4	10	13	7	7
sf-hsa-miR-598(1)	49	1	0	5	8	4	15	5	11
sf-hsa-miR-874(1)	48	1	0	11	8	12	6	3	7
sf-hsa-miR-214-5p(1)	47	1	0	3	9	6	4	8	16
sf-hsa-miR-375(1)	47	1	0	4	17	2	3	2	18
sf-hsa-miR-16-1*(3)	47	1	0	3	4	12	6	12	9
sf-hsa-miR-369(2)	46	2	0	10	10	4	9	4	7
sf-hsa-miR-328(1)	46	1	0	2	7	11	12	9	4
sf-hsa-miR-194-1*(2)	45	0	0	13	3	15	0	4	10
sf-hsa-miR-146b*(1)	43	2	0	2	7	6	1	0	25
sf-hsa-miR-590-5p(1)	43	1	0	4	2	0	15	15	6
sf-hsa-miR-335-3p(1)	42	2	0	7	7	3	2	9	12
sf-hsa-miR-493(1)	41	3	0	12	6	4	7	1	8
sf-hsa-miR-582(1)	41	0	0	2	3	5	12	9	10
sf-hsa-miR-125a*(1)	40	2	0	1	8	9	6	7	7
sf-hsa-miR-93*(1)	40	0	0	1	9	6	6	7	11
sf-hsa-miR-135a-2*(2)	39	1	0	1	3	16	7	1	10
sf-hsa-miR-338-5p(1)	38	3	0	0	1	12	6	9	7
sf-hsa-miR-101-1*(2)	36	0	0	6	4	5	6	7	8
sf-hsa-miR-577(1)	36	4	0	1	0	3	18	3	7
sf-hsa-miR-133a-1(3)	36	0	0	2	6	8	12	7	1
sf-hsa-miR-338-3p(1)	33	0	0	0	1	4	7	8	13
sf-hsa-miR-653-5p(1)	32	0	0	2	3	0	3	5	19
sf-hsa-miR-625-3p(1)	32	0	0	3	4	3	4	9	9
sf-hsa-miR-450a-1*(2)	32	1	0	1	2	5	6	10	7
sf-hsa-miR-495(1)	31	0	0	4	5	2	13	4	3
sf-hsa-miR-23a*(2)	31	2	0	1	2	5	7	6	8
sf-hsa-miR-136-3p(1)	30	0	0	4	6	6	7	3	4
sf-hsa-miR-653-3p(1)	30	1	0	5	1	3	3	3	14
sf-hsa-miR-486(1)	30	2	0	4	3	7	8	2	4
sf-hsa-miR-196a-2*(1)	29	1	0	0	8	11	2	5	2
sf-hsa-miR-625-5p(1)	29	0	0	2	3	6	8	4	6
sf-hsa-miR-367(1)	28	3	0	0	0	0	17	4	4
sf-hsa-miR-511-1-5p(2)	27	2	0	1	10	4	2	2	6
sf-hsa-miR-330-3p(1)	27	1	0	3	6	5	2	3	7
sf-hsa-miR-302a-3p(4)	27	8	0	0	0	1	7	8	3
sf-hsa-miR-654(1)	27	0	0	4	8	2	7	3	3
sf-hsa-miR-376a-1-5p(2)	26	2	0	7	3	6	2	4	2
sf-hsa-miR-628(1)	26	0	0	4	4	3	6	5	4
sf-hsa-miR-204*(1)	25	1	0	5	1	12	6	0	0
sf-hsa-miR-299-5p(1)	25	0	0	1	4	2	3	7	8
sf-hsa-miR-19a*(3)	25	1	0	1	2	4	3	4	10
sf-hsa-miR-514a-1*(3)	24	0	0	5	17	0	0	1	1
sf-hsa-miR-487a-3p(2)	24	1	0	8	4	7	2	1	1

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Supplementary Table S5C: MiRNA sequence family profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
sf-hsa-miR-1271(1)	24	1	0	1	1	6	4	2	9
sf-hsa-miR-148b*(1)	24	2	0	2	5	4	3	3	5
sf-hsa-miR-660*(1)	24	0	0	2	2	5	6	5	4
sf-hsa-miR-1307(1)	23	0	0	2	3	8	4	2	4
sf-hsa-miR-216b(1)	23	0	0	9	0	12	0	2	0
sf-hsa-miR-296-3p(1)	23	3	0	1	3	4	2	6	4
sf-hsa-miR-212-5p(1)	23	5	0	0	3	2	4	0	9
sf-hsa-miR-31-5p(1)	22	2	0	0	4	1	9	5	1
sf-hsa-miR-129-1-5p(2)	22	0	0	1	2	5	3	5	6
sf-hsa-miR-339-5p(1)	22	0	0	1	2	3	8	5	3
sf-hsa-miR-1301(1)	22	2	0	0	5	1	9	3	2
sf-hsa-miR-192*(1)	22	0	0	7	1	9	0	1	4
sf-hsa-miR-222*(1)	22	0	0	1	4	0	5	3	9
sf-hsa-miR-99a*(2)	21	0	0	4	5	8	2	1	1
sf-hsa-miR-543(1)	21	1	0	3	4	4	3	4	2
sf-hsa-miR-221*(1)	21	0	0	1	4	6	2	5	3
sf-hsa-miR-342*(1)	20	0	0	0	9	3	4	2	2
sf-hsa-miR-590-3p(1)	20	0	0	1	1	1	7	4	6
sf-hsa-miR-708*(1)	19	0	0	2	0	5	3	3	6
sf-hsa-miR-374b*(1)	19	0	0	2	2	1	6	3	5
sf-hsa-miR-551a(2)	19	1	0	1	3	1	3	3	7
sf-hsa-miR-185*(1)	18	1	0	1	1	6	4	2	3
sf-hsa-miR-873(2)	18	0	0	6	2	5	0	0	5
sf-hsa-miR-187(1)	17	0	0	3	4	6	0	1	3
sf-hsa-miR-409-5p(1)	17	0	0	3	2	6	2	0	4
hcmv-miR-US25-2-3p	17	4	1	2	3	1	2	2	2
sf-hsa-miR-369*(1)	17	1	0	3	7	2	1	1	2
sf-hsa-miR-382-3p(1)	17	0	0	0	5	3	5	2	2
sf-hsa-miR-1277-3p(1)	17	1	0	2	3	4	2	3	2
sf-hsa-miR-1277-5p(1)	17	3	0	4	1	0	5	4	0
sf-hsa-miR-509-1-5p(3)	16	0	0	1	12	2	0	1	0
sf-hsa-miR-887(1)	16	0	0	1	1	5	3	2	4
sf-hsa-miR-190a*(1)	16	0	0	1	1	1	6	6	1
sf-hsa-miR-491(1)	16	0	0	1	2	3	5	0	5
sf-hsa-miR-651(1)	16	0	0	0	6	0	5	2	3
sf-hsa-miR-1287(1)	16	0	0	3	1	4	3	3	2
hvt-miR-H14*	15	1	0	1	3	2	4	2	5
sf-hsa-miR-1468(1)	15	0	0	1	1	5	3	3	2
sf-hsa-miR-7-1*(2)	15	1	0	0	5	4	1	3	1
sf-hsa-miR-585(1)	15	0	0	0	3	1	8	3	0
sf-hsa-miR-615-5p(1)	15	1	0	4	0	2	2	3	3
sf-hsa-miR-378*(1)	14	0	0	7	0	5	1	0	1
sf-hsa-miR-130b-5p(1)	14	0	0	1	3	2	5	2	1
sf-hsa-miR-3117(1)	14	1	0	2	1	1	2	2	5
sf-hsa-miR-505*(1)	14	1	0	2	3	1	2	2	3
sf-hsa-miR-506(1)	13	0	0	1	9	0	0	1	2
sf-hsa-miR-326(1)	13	0	0	0	4	2	3	3	1
sf-hsa-miR-302a-5p(1)	13	2	0	0	0	0	1	5	5
sf-hsa-miR-193b*(1)	13	1	0	3	5	2	0	1	1
sf-hsa-miR-31-3p(1)	13	1	0	0	6	0	1	1	4
sf-hsa-miR-122(1)	13	9	0	0	0	0	1	3	0
sf-hsa-miR-224*(1)	13	0	0	0	4	3	2	1	3
sf-hsa-miR-337(1)	13	0	0	1	5	2	2	1	2
sf-hsa-miR-139*(1)	12	2	0	1	3	3	2	1	0
sf-hsa-miR-589(1)	12	0	0	1	3	4	1	0	3
sf-hsa-miR-26a-1*(2)	12	0	0	2	4	0	1	1	4
sf-hsa-miR-26b*(1)	12	0	0	1	1	2	4	2	2
sf-hsa-miR-3909(1)	12	0	0	2	1	3	3	1	2
sf-hsa-miR-618(1)	12	0	0	1	0	1	3	2	5
sf-hsa-miR-539(1)	11	0	0	1	1	1	1	5	2
sf-hsa-miR-184(1)	11	0	0	3	0	6	0	1	1
sf-hsa-miR-582*(1)	11	1	0	2	1	0	1	2	4
sf-hsa-miR-1296(1)	11	1	0	0	2	2	4	0	2
sf-hsa-miR-497*(1)	10	1	0	3	1	0	2	2	1
sf-hsa-miR-299-3p(1)	10	0	0	3	0	2	1	1	3
sf-hsa-miR-3065-5p(1)	10	0	0	0	1	3	5	1	0
sf-hsa-miR-561(1)	10	1	0	1	2	0	3	1	2
sf-hsa-miR-130a*(1)	10	0	0	2	1	0	3	3	1
sf-hsa-miR-331*(1)	9	0	0	0	2	1	1	1	4
sf-hsa-miR-218-1*(2)	9	0	0	2	1	4	0	1	1
sf-hsa-miR-432(1)	9	0	0	1	0	1	2	1	4
sf-hsa-miR-1180(1)	9	0	0	0	4	0	3	0	2
sf-hsa-miR-18a*(2)	9	0	0	1	0	2	1	4	1

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Supplementary Table S5C: MiRNA sequence family profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
sf-hsa-miR-376b*(2)	9	0	0	1	4	4	0	0	0
sf-hsa-miR-452*(1)	9	1	0	0	4	1	1	0	2
sf-hsa-miR-766(1)	9	0	0	0	2	2	2	1	2
sf-hsa-miR-1251(1)	9	0	0	1	1	5	0	1	1
sf-hsa-miR-3613*(1)	9	0	0	0	1	3	3	2	0
sf-hsa-miR-219-1-5p(2)	9	0	0	0	2	0	4	3	0
sf-hsa-miR-487a-5p(2)	9	1	0	2	2	1	1	1	1
sf-hsa-miR-494(1)	9	0	0	0	1	4	4	0	0
sf-hsa-miR-671(1)	8	2	0	0	1	1	1	1	2
sf-hsa-miR-3605-3p(1)	8	0	0	1	2	1	1	1	2
ebv-miR-BART6-3p	8	3	0	2	0	0	1	1	1
sf-hsa-miR-340*(1)	8	0	0	0	0	1	3	0	4
sf-hsa-miR-576-3p(1)	8	1	0	0	0	2	1	2	2
sf-hsa-miR-576-5p(1)	8	0	0	1	1	0	5	0	1
sf-hsa-miR-92a-1*(1)	8	0	0	1	0	1	2	0	4
sf-hsa-miR-1185-1-5p(2)	8	0	0	0	1	1	1	1	4
sf-hsa-miR-141*(1)	8	0	0	0	1	0	1	2	4
sf-hsa-miR-488(1)	8	0	0	0	1	0	1	3	3
sf-hsa-miR-489(1)	8	1	0	0	1	1	1	1	3
sf-hsa-miR-542*(1)	8	0	0	2	1	1	1	0	3
sf-hsa-miR-545-3p(3)	8	0	0	0	0	0	2	2	4
sf-hsa-miR-149(1)	8	0	0	2	0	0	5	0	1
sf-hsa-miR-380-3p(3)	8	0	0	0	4	1	0	1	2
sf-hsa-miR-147(1)	7	0	0	0	1	4	1	1	0
sf-hsa-miR-500b*(1)	7	2	0	1	1	0	1	2	1
sf-hsa-miR-3065-3p(1)	7	0	0	2	2	1	0	0	2
sf-hsa-miR-1270-1(2)	7	0	0	3	0	2	0	2	0
sf-hsa-miR-889(1)	7	1	0	0	1	1	3	1	0
sf-hsa-miR-1247(1)	7	0	0	2	4	0	0	1	0
sf-hsa-miR-203*(1)	7	1	0	0	0	0	2	2	2
sf-hsa-miR-3158(1)	7	0	0	0	0	0	3	2	2
sf-hsa-miR-511-1-3p(2)	6	0	0	0	2	1	1	2	0
sf-hsa-miR-15b*(1)	6	0	0	3	0	1	0	1	1
sf-hsa-miR-124-1(3)	6	0	0	0	1	2	0	3	0
sf-hsa-miR-483-5p(1)	6	0	0	1	1	0	0	3	1
sf-hsa-miR-181b-1*(2)	6	0	0	0	1	1	3	1	0
sf-hsa-miR-513c-5p(1)	6	0	0	0	4	0	1	1	0
sf-hsa-miR-548c(1)	6	0	0	0	0	2	2	1	1
sf-hsa-miR-592(1)	6	0	0	0	1	1	0	2	2
sf-hsa-miR-627-5p(1)	6	0	0	0	0	1	2	0	3
sf-hsa-miR-2114(1)	6	0	0	1	1	3	0	0	1
sf-hsa-miR-34b(1)	6	0	0	1	2	1	1	0	1
sf-hsa-miR-934*(1)	6	2	0	0	0	0	1	1	2
sf-hsa-miR-9-1*(3)	6	0	0	0	1	0	1	3	1
sf-hsa-miR-433(1)	5	0	0	1	0	1	1	2	0
sf-hsa-miR-891a(1)	5	1	0	1	0	2	0	1	0
sf-hsa-miR-32*(1)	5	0	0	1	0	0	1	1	2
sf-hsa-miR-493*(1)	5	0	0	0	1	0	1	1	2
sf-hsa-miR-323a(1)	5	0	0	1	2	1	0	0	1
sf-hsa-miR-3611(1)	5	1	0	0	2	0	1	1	0
sf-hsa-miR-539*(1)	5	0	0	2	1	1	0	1	0
sf-hsa-miR-137(1)	5	0	0	0	0	0	4	0	1
sf-hsa-miR-152a*(1)	5	0	0	0	0	1	0	1	3
sf-hsa-miR-3200(1)	5	0	0	2	1	1	0	0	1
sf-hsa-miR-499*(1)	5	0	0	0	0	2	1	1	1
sf-hsa-miR-556-5p(1)	5	0	0	0	0	0	3	2	0
sf-hsa-miR-577*(1)	5	0	0	0	0	0	1	3	1
sf-hsa-miR-133a-1*(2)	4	1	0	0	0	0	3	0	0
sf-hsa-miR-2355-3p(1)	4	0	0	0	1	0	1	1	1
sf-hsa-miR-329-1(2)	4	0	0	0	2	0	0	1	1
sf-hsa-miR-138-1*(2)	4	0	0	0	0	2	1	1	0
sf-hsa-miR-33a*(1)	4	0	0	0	0	0	1	0	3
sf-hsa-miR-654*(1)	4	0	1	2	1	0	0	0	0
sf-hsa-miR-1249(1)	4	0	0	0	0	1	2	0	1
sf-hsa-miR-186*(1)	4	1	0	0	1	0	0	1	1
sf-hsa-miR-34a*(1)	4	0	0	0	2	0	0	1	1
sf-hsa-miR-410(1)	4	0	0	0	0	1	2	1	0
sf-hsa-miR-485-3p(1)	4	0	0	1	1	0	1	1	0
sf-hsa-miR-503*(1)	4	0	0	0	1	0	0	0	3
sf-hsa-miR-570-3p(1)	4	0	0	0	0	0	1	2	1
sf-hsa-miR-584(1)	4	0	0	0	0	2	1	0	1
sf-hsa-miR-675*(1)	4	0	0	0	1	2	1	0	0
sf-hsa-miR-1269(1)	3	0	0	0	0	1	0	1	1

Supplemental Digital Content (SDC)

Supplementary Table S5C: MiRNA sequence family profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
sf-hsa-miR-769*(1)	3	0	0	0	0	1	2	0	0
sf-hsa-miR-1306-5p(1)	3	0	0	0	1	1	1	0	0
sf-hsa-miR-154-3p(1)	3	0	0	0	0	1	1	0	1
sf-hsa-miR-431-5p(1)	3	0	0	0	1	0	0	0	2
sf-hsa-miR-888(3)	3	0	0	1	0	1	1	0	0
sf-hsa-miR-103-1*(3)	3	0	0	0	1	1	0	0	1
sf-hsa-miR-2355-5p(1)	3	0	0	1	1	0	1	0	0
sf-hsa-miR-496(1)	3	0	0	0	0	1	0	1	1
sf-hsa-miR-624-3p(1)	3	0	0	0	0	2	0	1	0
sf-hsa-miR-652*(1)	3	0	0	0	1	0	1	1	0
sf-hsa-miR-675(1)	3	0	0	1	1	0	0	1	0
sf-hsa-miR-876-5p(1)	3	0	1	0	2	0	0	0	0
sf-hsa-miR-942(1)	3	0	0	0	0	1	0	1	1
sf-hsa-miR-146a*(1)	3	0	0	0	1	0	1	0	1
sf-hsa-miR-153-1(2)	3	0	0	0	0	1	2	0	0
sf-hsa-miR-2116-3p(1)	3	0	0	0	0	0	2	0	1
sf-hsa-miR-3074-5p(1)	3	1	0	0	1	0	0	1	0
sf-hsa-miR-3173(1)	3	1	0	0	0	0	0	1	1
sf-hsa-miR-3194-3p(1)	3	0	0	0	1	0	2	0	0
sf-hsa-miR-34b*(2)	3	0	0	0	0	1	0	1	1
sf-hsa-miR-483-3p(1)	3	0	0	0	3	0	0	0	0
sf-hsa-miR-550-1-5p(2)	3	0	0	0	1	1	0	1	0
sf-hsa-miR-656(1)	3	0	0	0	1	0	0	1	1
sf-hsa-miR-665(1)	3	0	0	0	0	0	2	1	0
sf-hsa-miR-758(1)	3	0	0	0	0	0	1	0	2
sf-hsa-miR-513a-1-5p(3)	2	0	0	1	0	0	0	0	1
sf-hsa-miR-183*(1)	2	0	0	0	1	0	0	1	0
sf-hsa-miR-216a(1)	2	0	0	1	0	0	0	1	0
sf-hsa-miR-212-3p(1)	2	0	0	0	0	0	0	0	2
sf-hsa-miR-3912(1)	2	0	0	0	0	0	1	0	1
sf-hsa-miR-1294-5p(1)	2	1	0	0	0	0	0	1	0
sf-hsa-miR-1296*(1)	2	0	0	0	1	0	1	0	0
sf-hsa-miR-150*(1)	2	1	0	0	0	0	0	0	1
sf-hsa-miR-2110(1)	2	1	0	0	0	1	0	0	0
sf-hsa-miR-223*(1)	2	0	0	0	2	0	0	0	0
sf-hsa-miR-323b(1)	2	0	0	0	0	1	1	0	0
sf-hsa-miR-330-5p(1)	2	0	0	0	1	0	0	0	1
sf-hsa-miR-599(1)	2	0	0	0	2	0	0	0	0
sf-hsa-miR-744*(1)	2	0	0	1	0	1	0	0	0
sf-hsa-miR-92b*(1)	2	0	0	1	0	0	1	0	0
sf-hsa-miR-1251*(1)	2	0	0	0	0	2	0	0	0
sf-hsa-miR-1304-3p(1)	2	0	0	1	0	1	0	0	0
sf-hsa-miR-134*(1)	2	0	0	1	0	0	1	0	0
sf-hsa-miR-202(1)	2	0	0	0	0	0	0	0	2
sf-hsa-miR-205(1)	2	0	0	0	0	0	2	0	0
sf-hsa-miR-217*(1)	2	0	0	1	0	1	0	0	0
sf-hsa-miR-3130-5p(1)	2	0	0	0	0	1	0	0	1
sf-hsa-miR-3177(1)	2	1	0	0	0	0	0	1	0
sf-hsa-miR-337*(1)	2	0	0	0	1	0	0	1	0
sf-hsa-miR-3605-5p(1)	2	0	0	0	0	2	0	0	0
sf-hsa-miR-370*(1)	2	0	0	0	0	0	1	1	0
sf-hsa-miR-372(1)	2	0	0	0	0	0	2	0	0
sf-hsa-miR-412(1)	2	0	0	1	0	0	1	0	0
sf-hsa-miR-510-3p(1)	2	0	0	0	0	0	0	0	2
sf-hsa-miR-550-1-3p(2)	2	0	0	0	1	0	1	0	0
sf-hsa-miR-556-3p(1)	2	0	0	0	0	1	1	0	0
sf-hsa-miR-580(1)	2	0	0	0	0	0	2	0	0
sf-hsa-miR-597(1)	2	0	0	0	0	0	1	1	0
sf-hsa-miR-599*(1)	2	0	0	0	2	0	0	0	0
sf-hsa-miR-628*(1)	2	0	0	0	0	0	0	1	1
sf-hsa-miR-629*(1)	2	0	0	0	0	0	0	1	1
sf-hsa-miR-643(1)	2	0	0	0	1	0	0	1	0
sf-hsa-miR-671-3p(1)	2	0	0	0	0	1	0	0	1
sf-hsa-miR-676(1)	2	0	0	0	0	1	1	0	0
sf-hsa-miR-589*(1)	1	0	0	0	0	0	1	0	0
sf-hsa-miR-1179(1)	1	0	0	0	0	0	1	0	0
sf-hsa-miR-1263-5p(1)	1	0	0	0	0	0	1	0	0
sf-hsa-miR-1306-3p(1)	1	0	0	0	0	0	0	0	1
sf-hsa-miR-191*(1)	1	0	0	0	0	0	0	0	1
sf-hsa-miR-2110*(1)	1	0	0	0	0	0	0	1	0
sf-hsa-miR-3127-5p(1)	1	0	0	0	0	1	0	0	0
sf-hsa-miR-1269*(1)	1	0	0	0	1	0	0	0	0
sf-hsa-miR-15a*(1)	1	0	0	0	0	0	1	0	0

Supplemental Digital Content (SDC)

Supplementary Table S5C: MiRNA sequence family profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
sf-hsa-miR-200c*(1)	1	1	0	0	0	0	0	0	0
sf-hsa-miR-210*(1)	1	0	0	0	0	0	1	0	0
sf-hsa-miR-3157-5p(1)	1	0	0	0	0	0	0	0	1
sf-hsa-miR-3176(1)	1	0	0	0	1	0	0	0	0
sf-hsa-miR-3187(1)	1	0	0	0	1	0	0	0	0
sf-hsa-miR-3680(1)	1	0	0	0	0	0	0	0	1
sf-hsa-miR-381*(1)	1	0	0	0	0	0	0	1	0
sf-hsa-miR-513a-1-3p(3)	1	0	0	0	1	0	0	0	0
sf-hsa-miR-641(1)	1	1	0	0	0	0	0	0	0
sf-hsa-miR-876-3p(1)	1	0	0	0	0	0	1	0	0
sf-hsa-miR-937(1)	1	0	0	0	0	0	0	1	0
hsv1-miR-H7	1	0	0	0	0	0	0	1	0
hsv2-miR-H22	1	0	0	0	0	0	0	1	0
iltv-miR-I5	1	0	0	0	0	1	0	0	0
kshv-miR-K12-6-3p	1	0	0	1	0	0	0	0	0
kshv-miR-K12-8	1	0	0	0	0	1	0	0	0
mcmv-miR-m01-3*	1	0	0	0	1	0	0	0	0
mdv1-miR-M10-5p	1	0	0	0	0	0	0	1	0
rlcv-miR-rL1-4-5p	1	0	0	0	0	0	0	1	0
sf-hsa-miR-1255a-5p(2)	1	0	0	0	1	0	0	0	0
sf-hsa-miR-1270-1*(2)	1	0	0	0	0	0	0	0	1
sf-hsa-miR-128-1*(2)	1	0	0	0	1	0	0	0	0
sf-hsa-miR-1286*(1)	1	0	0	1	0	0	0	0	0
sf-hsa-miR-1287*(1)	1	0	0	0	0	0	0	1	0
sf-hsa-miR-1289-5p(1)	1	0	0	0	0	0	0	1	0
sf-hsa-miR-1303-5p(1)	1	0	0	0	0	0	0	1	0
sf-hsa-miR-135a-1*(1)	1	0	0	0	0	0	0	0	1
sf-hsa-miR-182*(1)	1	0	0	0	0	1	0	0	0
sf-hsa-miR-2114*(1)	1	0	0	0	1	0	0	0	0
sf-hsa-miR-216a*(1)	1	0	0	0	0	0	0	0	1
sf-hsa-miR-219-1-3p(1)	1	0	0	0	0	0	1	0	0
sf-hsa-miR-2277(1)	1	0	0	0	0	0	0	0	1
sf-hsa-miR-2277*(1)	1	0	0	0	1	0	0	0	0
sf-hsa-miR-301a*(1)	1	0	0	0	0	0	1	0	0
sf-hsa-miR-302b*(2)	1	0	0	0	0	0	0	1	0
sf-hsa-miR-3117*(1)	1	0	0	0	0	0	0	1	0
sf-hsa-miR-3130-3p(1)	1	0	0	0	0	1	0	0	0
sf-hsa-miR-3140-3p(1)	1	0	0	0	0	0	1	0	0
sf-hsa-miR-3144*(1)	1	0	0	0	0	0	1	0	0
sf-hsa-miR-323a*(1)	1	0	0	0	0	0	1	0	0
sf-hsa-miR-329-1*(2)	1	0	0	0	0	0	0	1	0
sf-hsa-miR-345*(1)	1	0	0	0	0	0	0	1	0
sf-hsa-miR-346(1)	1	0	0	0	1	0	0	0	0
sf-hsa-miR-346*(1)	1	0	0	0	0	0	0	1	0
sf-hsa-miR-3614-5p(1)	1	0	0	0	0	0	0	1	0
sf-hsa-miR-3619-3p(1)	1	1	0	0	0	0	0	0	0
sf-hsa-miR-3622-5p(1)	1	0	0	0	0	0	0	0	1
sf-hsa-miR-363*(1)	1	0	0	0	0	0	1	0	0
sf-hsa-miR-365-1*(2)	1	0	0	1	0	0	0	0	0
sf-hsa-miR-3664-3p(1)	1	0	0	0	0	0	0	1	0
sf-hsa-miR-367*(1)	1	0	0	0	0	0	0	0	1
sf-hsa-miR-371(1)	1	0	0	0	0	1	0	0	0
sf-hsa-miR-3912*(1)	1	0	0	0	0	0	0	1	0
sf-hsa-miR-3928(1)	1	0	0	0	0	0	0	0	1
sf-hsa-miR-429*(1)	1	0	0	1	0	0	0	0	0
sf-hsa-miR-4326(1)	1	0	0	1	0	0	0	0	0
sf-hsa-miR-433*(1)	1	0	0	0	1	0	0	0	0
sf-hsa-miR-486*(1)	1	0	0	0	0	1	0	0	0
sf-hsa-miR-489*(1)	1	0	0	0	0	0	0	1	0
sf-hsa-miR-498-5p(1)	1	1	0	0	0	0	0	0	0
sf-hsa-miR-508*(1)	1	0	0	0	1	0	0	0	0
sf-hsa-miR-514b-5p(1)	1	0	0	0	1	0	0	0	0
sf-hsa-miR-541-5p(1)	1	0	0	0	1	0	0	0	0
sf-hsa-miR-544-3p(1)	1	0	0	0	0	0	1	0	0
sf-hsa-miR-559(1)	1	0	0	0	0	0	0	0	1
sf-hsa-miR-579-3p(1)	1	0	0	0	0	0	0	0	1
sf-hsa-miR-579-5p(1)	1	0	0	0	0	0	1	0	0
sf-hsa-miR-580*(1)	1	0	0	0	0	1	0	0	0
sf-hsa-miR-581(1)	1	0	0	1	0	0	0	0	0
sf-hsa-miR-588*(1)	1	0	0	0	0	0	1	0	0
sf-hsa-miR-598*(1)	1	0	0	0	1	0	0	0	0
sf-hsa-miR-616-3p(1)	1	0	0	0	0	1	0	0	0
sf-hsa-miR-616-5p(1)	1	0	0	0	0	1	0	0	0

Supplemental Digital Content (SDC)

Supplementary Table S5C: MiRNA sequence family profiles

[illegible]

Supplemental Digital Content (SDC)

Supplementary Table S5C: MiRNA sequence family profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
hsv2-miR-H24	0	0	0	0	0	0	0	0	0
hsv2-miR-H25	0	0	0	0	0	0	0	0	0
hsv2-miR-H3	0	0	0	0	0	0	0	0	0
hsv2-miR-H4-3p	0	0	0	0	0	0	0	0	0
hsv2-miR-H4-5p	0	0	0	0	0	0	0	0	0
hsv2-miR-H5	0	0	0	0	0	0	0	0	0
hsv2-miR-H6	0	0	0	0	0	0	0	0	0
hsv2-miR-H6*	0	0	0	0	0	0	0	0	0
hsv2-miR-H7-3p	0	0	0	0	0	0	0	0	0
hsv2-miR-H7-5p	0	0	0	0	0	0	0	0	0
hsv2-miR-H9-3p	0	0	0	0	0	0	0	0	0
hsv2-miR-H9-5p	0	0	0	0	0	0	0	0	0
hvt-miR-H1	0	0	0	0	0	0	0	0	0
hvt-miR-H10	0	0	0	0	0	0	0	0	0
hvt-miR-H11	0	0	0	0	0	0	0	0	0
hvt-miR-H12-3p	0	0	0	0	0	0	0	0	0
hvt-miR-H12-5p	0	0	0	0	0	0	0	0	0
hvt-miR-H13	0	0	0	0	0	0	0	0	0
hvt-miR-H14	0	0	0	0	0	0	0	0	0
hvt-miR-H15	0	0	0	0	0	0	0	0	0
hvt-miR-H15*	0	0	0	0	0	0	0	0	0
hvt-miR-H16-3p	0	0	0	0	0	0	0	0	0
hvt-miR-H16-5p	0	0	0	0	0	0	0	0	0
hvt-miR-H17	0	0	0	0	0	0	0	0	0
hvt-miR-H17*	0	0	0	0	0	0	0	0	0
hvt-miR-H18-3p	0	0	0	0	0	0	0	0	0
hvt-miR-H18-5p	0	0	0	0	0	0	0	0	0
hvt-miR-H2	0	0	0	0	0	0	0	0	0
hvt-miR-H3-3p	0	0	0	0	0	0	0	0	0
hvt-miR-H3-5p	0	0	0	0	0	0	0	0	0
hvt-miR-H4	0	0	0	0	0	0	0	0	0
hvt-miR-H4*	0	0	0	0	0	0	0	0	0
hvt-miR-H5*	0	0	0	0	0	0	0	0	0
hvt-miR-H7-3p	0	0	0	0	0	0	0	0	0
hvt-miR-H7-5p	0	0	0	0	0	0	0	0	0
hvt-miR-H8	0	0	0	0	0	0	0	0	0
hvt-miR-H9-3p	0	0	0	0	0	0	0	0	0
hvt-miR-H9-5p	0	0	0	0	0	0	0	0	0
iltv-miR-I1	0	0	0	0	0	0	0	0	0
iltv-miR-I1*	0	0	0	0	0	0	0	0	0
iltv-miR-I2	0	0	0	0	0	0	0	0	0
iltv-miR-I3	0	0	0	0	0	0	0	0	0
iltv-miR-I4	0	0	0	0	0	0	0	0	0
iltv-miR-I5*	0	0	0	0	0	0	0	0	0
iltv-miR-I6	0	0	0	0	0	0	0	0	0
iltv-miR-I6*	0	0	0	0	0	0	0	0	0
iltv-miR-I7	0	0	0	0	0	0	0	0	0
jcv-miR-J1-3p	0	0	0	0	0	0	0	0	0
kshv-miR-K12-1	0	0	0	0	0	0	0	0	0
kshv-miR-K12-1*	0	0	0	0	0	0	0	0	0
kshv-miR-K12-10a	0	0	0	0	0	0	0	0	0
kshv-miR-K12-10a*	0	0	0	0	0	0	0	0	0
kshv-miR-K12-10b	0	0	0	0	0	0	0	0	0
kshv-miR-K12-11	0	0	0	0	0	0	0	0	0
kshv-miR-K12-11*	0	0	0	0	0	0	0	0	0
kshv-miR-K12-12	0	0	0	0	0	0	0	0	0
kshv-miR-K12-12*	0	0	0	0	0	0	0	0	0
kshv-miR-K12-2	0	0	0	0	0	0	0	0	0
kshv-miR-K12-2*	0	0	0	0	0	0	0	0	0
kshv-miR-K12-3	0	0	0	0	0	0	0	0	0
kshv-miR-K12-3*	0	0	0	0	0	0	0	0	0
kshv-miR-K12-4-3p	0	0	0	0	0	0	0	0	0
kshv-miR-K12-4-5p	0	0	0	0	0	0	0	0	0
kshv-miR-K12-5	0	0	0	0	0	0	0	0	0
kshv-miR-K12-5*	0	0	0	0	0	0	0	0	0
kshv-miR-K12-6-5p	0	0	0	0	0	0	0	0	0
kshv-miR-K12-7	0	0	0	0	0	0	0	0	0
kshv-miR-K12-7*	0	0	0	0	0	0	0	0	0
kshv-miR-K12-8*	0	0	0	0	0	0	0	0	0
kshv-miR-K12-9	0	0	0	0	0	0	0	0	0
kshv-miR-K12-9*	0	0	0	0	0	0	0	0	0
mcmv-miR-M23-1-3p	0	0	0	0	0	0	0	0	0
mcmv-miR-M23-1-5p	0	0	0	0	0	0	0	0	0

Supplemental Digital Content (SDC)

Supplementary Table S5C: MiRNA sequence family profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
mcmv-miR-M23-2	0	0	0	0	0	0	0	0	0
mcmv-miR-M23-2*	0	0	0	0	0	0	0	0	0
mcmv-miR-M44-1	0	0	0	0	0	0	0	0	0
mcmv-miR-M55-1	0	0	0	0	0	0	0	0	0
mcmv-miR-M87-1	0	0	0	0	0	0	0	0	0
mcmv-miR-M95-1-3p	0	0	0	0	0	0	0	0	0
mcmv-miR-M95-1-5p	0	0	0	0	0	0	0	0	0
mcmv-miR-m01-1	0	0	0	0	0	0	0	0	0
mcmv-miR-m01-2	0	0	0	0	0	0	0	0	0
mcmv-miR-m01-2*	0	0	0	0	0	0	0	0	0
mcmv-miR-m01-3	0	0	0	0	0	0	0	0	0
mcmv-miR-m01-4	0	0	0	0	0	0	0	0	0
mcmv-miR-m01-4*	0	0	0	0	0	0	0	0	0
mcmv-miR-m107-1-3p	0	0	0	0	0	0	0	0	0
mcmv-miR-m107-1-5p	0	0	0	0	0	0	0	0	0
mcmv-miR-m108-1	0	0	0	0	0	0	0	0	0
mcmv-miR-m108-1*	0	0	0	0	0	0	0	0	0
mcmv-miR-m108-2-5p.1	0	0	0	0	0	0	0	0	0
mcmv-miR-m108-2-5p.2	0	0	0	0	0	0	0	0	0
mcmv-miR-m21-1	0	0	0	0	0	0	0	0	0
mcmv-miR-m22-1	0	0	0	0	0	0	0	0	0
mcmv-miR-m59-1	0	0	0	0	0	0	0	0	0
mcmv-miR-m59-2	0	0	0	0	0	0	0	0	0
mcmv-miR-m88-1	0	0	0	0	0	0	0	0	0
mcmv-miR-m88-1*	0	0	0	0	0	0	0	0	0
mcv-miR-M1-3p	0	0	0	0	0	0	0	0	0
mcv-miR-M1-5p	0	0	0	0	0	0	0	0	0
mdv1-miR-M1	0	0	0	0	0	0	0	0	0
mdv1-miR-M1*	0	0	0	0	0	0	0	0	0
mdv1-miR-M10-3p	0	0	0	0	0	0	0	0	0
mdv1-miR-M11-3p	0	0	0	0	0	0	0	0	0
mdv1-miR-M11-5p	0	0	0	0	0	0	0	0	0
mdv1-miR-M12	0	0	0	0	0	0	0	0	0
mdv1-miR-M12*	0	0	0	0	0	0	0	0	0
mdv1-miR-M13	0	0	0	0	0	0	0	0	0
mdv1-miR-M2-3p	0	0	0	0	0	0	0	0	0
mdv1-miR-M2-5p	0	0	0	0	0	0	0	0	0
mdv1-miR-M3	0	0	0	0	0	0	0	0	0
mdv1-miR-M3*	0	0	0	0	0	0	0	0	0
mdv1-miR-M31	0	0	0	0	0	0	0	0	0
mdv1-miR-M4	0	0	0	0	0	0	0	0	0
mdv1-miR-M4*	0	0	0	0	0	0	0	0	0
mdv1-miR-M5	0	0	0	0	0	0	0	0	0
mdv1-miR-M5*	0	0	0	0	0	0	0	0	0
mdv1-miR-M6-3p	0	0	0	0	0	0	0	0	0
mdv1-miR-M6-5p	0	0	0	0	0	0	0	0	0
mdv1-miR-M7	0	0	0	0	0	0	0	0	0
mdv1-miR-M7*	0	0	0	0	0	0	0	0	0
mdv1-miR-M8-3p	0	0	0	0	0	0	0	0	0
mdv1-miR-M8-5p	0	0	0	0	0	0	0	0	0
mdv1-miR-M9-3p	0	0	0	0	0	0	0	0	0
mdv1-miR-M9-5p	0	0	0	0	0	0	0	0	0
mdv2-miR-M14-3p	0	0	0	0	0	0	0	0	0
mdv2-miR-M14-5p	0	0	0	0	0	0	0	0	0
mdv2-miR-M15	0	0	0	0	0	0	0	0	0
mdv2-miR-M15*	0	0	0	0	0	0	0	0	0
mdv2-miR-M16	0	0	0	0	0	0	0	0	0
mdv2-miR-M16*	0	0	0	0	0	0	0	0	0
mdv2-miR-M17	0	0	0	0	0	0	0	0	0
mdv2-miR-M17*	0	0	0	0	0	0	0	0	0
mdv2-miR-M18-3p	0	0	0	0	0	0	0	0	0
mdv2-miR-M18-5p	0	0	0	0	0	0	0	0	0
mdv2-miR-M19-3p	0	0	0	0	0	0	0	0	0
mdv2-miR-M19-5p	0	0	0	0	0	0	0	0	0
mdv2-miR-M20	0	0	0	0	0	0	0	0	0
mdv2-miR-M20*	0	0	0	0	0	0	0	0	0
mdv2-miR-M21	0	0	0	0	0	0	0	0	0
mdv2-miR-M21*	0	0	0	0	0	0	0	0	0
mdv2-miR-M22	0	0	0	0	0	0	0	0	0
mdv2-miR-M22*	0	0	0	0	0	0	0	0	0
mdv2-miR-M23	0	0	0	0	0	0	0	0	0
mdv2-miR-M23*	0	0	0	0	0	0	0	0	0
mdv2-miR-M24	0	0	0	0	0	0	0	0	0

Supplemental Digital Content (SDC)

Supplementary Table S5C: MiRNA sequence family profiles

[illegible]

Supplemental Digital Content (SDC)

Supplementary Table S5C: MiRNA sequence family profiles

miRNA/Sample	Total reads over all samples	IFTA				Stable			
		M1	M2	M3	M4	M5	M6	M7	M8
rlcv-miR-rL1-31-5p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-32-3p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-32-5p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-33	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-34-3p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-34-5p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-35-3p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-35-5p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-4-3p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-5-3p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-5-5p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-6	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-6-5p	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-7	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-8	0	0	0	0	0	0	0	0	0
rlcv-miR-rL1-9	0	0	0	0	0	0	0	0	0
rrv-miR-rR1-1	0	0	0	0	0	0	0	0	0
rrv-miR-rR1-1*	0	0	0	0	0	0	0	0	0
rrv-miR-rR1-2	0	0	0	0	0	0	0	0	0
rrv-miR-rR1-3	0	0	0	0	0	0	0	0	0
rrv-miR-rR1-4	0	0	0	0	0	0	0	0	0
rrv-miR-rR1-4*	0	0	0	0	0	0	0	0	0
rrv-miR-rR1-5	0	0	0	0	0	0	0	0	0
rrv-miR-rR1-6	0	0	0	0	0	0	0	0	0
rrv-miR-rR1-6*	0	0	0	0	0	0	0	0	0
rrv-miR-rR1-7-3p	0	0	0	0	0	0	0	0	0
rrv-miR-rR1-7-5p	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1-1*(3)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-105-1(2)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-105-1*(2)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1179*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1180*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1193-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1193-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1197(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1197*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-122*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1245-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1245-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1247*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1249*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1250(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1250*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1252(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1252*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1255b*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1256-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1256-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1258-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1258-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1263-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1264(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1264*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1266(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1266*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1271*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1278(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1278*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1283-1-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1283-1-5p(2)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1283-2-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1284-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1284-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1286(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1289-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1293-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1293-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1294-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1295(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1295*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1298-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1298-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-1303-3p(1)	0	0	0	0	0	0	0	0	0

Supplemental Digital Content (SDC)

Supplementary Table S5C: MiRNA sequence family profiles

[illegible]

Supplemental Digital Content (SDC)

Supplementary Table S5C: MiRNA sequence family profiles

		IFTA				Stable			
	Total reads over all samples	M1	M2	M3	M4	M5	M6	M7	M8
sf-hsa-miR-3910(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-3910*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-3919-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-3919-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-3922(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-3922*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-3928*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-3934(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-3934*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-3938(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-3938*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-3939-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-3939-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-3940(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-3940*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-3942-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-3942-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-3944-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-3944-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-412*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-421*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-432*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-448-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-448-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-449a*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-449b*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-449c-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-449c-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-450b*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-454*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-466(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-466*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-484*-RNASEN(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-488*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-490-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-490-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-491*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-495*(2)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-498-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-506*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-510-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-512-1-3p(2)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-512-1-5p(2)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-513b*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-515-1-3p(30)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-515-1-5p(9)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-516a(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-516a-1(2)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-516b-1(20)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-517*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-517a-1(3)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-518b*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-518c*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-520b-5p(2)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-520d-5p(2)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-521-1(2)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-522(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-523-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-525-3p(2)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-526a-2-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-541-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-544-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-549-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-549-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-551a*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-551b*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-552-3p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-552-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-559-5p(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-561*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-581*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-584*(1)	0	0	0	0	0	0	0	0	0
sf-hsa-miR-585*(1)	0	0	0	0	0	0	0	0	0

Supplementary Table S6: Differential expression analysis for sequence count data

ID	Mean normalized count in Normal	Fold change in IFTA	P-value	FDR	edgeR p-value	ligation bias [#]	SD of ligation bias [#]
hsa-miR-21	4.32%	2.3	0.000	0.006	0.024	1.99	0.26
hsa-miR-30c(2)	1.41%	0.5	0.046	0.602	0.005	1.50	0.45
hsa-miR-30b	0.47%	0.3	0.011	0.317	0.002	0.15	0.04
hsa-miR-142-3p	0.08%	2.6	0.000	0.012	0.062	1.45	0.50
hsa-miR-140-5p	0.07%	0.3	0.027	0.496	0.001		NA
hsa-miR-142-5p	0.03%	1.8	0.016	0.378	0.324	1.01	0.40
hsa-miR-223	0.02%	1.9	0.012	0.317	0.212	0.56	0.12
hsa-miR-218(2)	0.02%	1.9	0.047	0.602	0.219	0.23	0.02
hsa-miR-127-3p	0.01%	1.9	0.038	0.569	0.076	1.49	0.41
hsa-miR-362-3p	0.01%	0.1	0.016	0.378	0.002	0.98	0.13
hsa-miR-934	0.01%	0.4	0.043	0.602	0.208		NA
hsa-miR-760	0.01%	3.2	0.021	0.450	0.023	1.07	0.37
hsa-miR-500a*(2)	0.01%	0.2	0.017	0.392	0.002		NA
hsa-miR-150	0.01%	2.1	0.023	0.475	0.119	0.48	0.18
hsa-miR-514a(3)	0.01%	5.3	0.000	0.000	0.023	3.85	0.91
hsa-miR-409-3p	0.005%	2.8	0.008	0.266	0.015	2.27	0.55
hsa-miR-21*	0.003%	3.9	0.000	0.012	0.006		NA
hsa-miR-338-3p	0.003%	0.1	0.033	0.529	0.002	0.09	0.01
hsa-miR-361-3p	0.003%	3.7	0.007	0.266	0.010		NA
hsa-miR-375	0.002%	2.2	0.047	0.602	0.166	1.37	0.43
hsa-miR-493	0.002%	3.5	0.025	0.488	0.019	1.82	0.59
hsa-miR-508	0.001%	8.4	0.000	0.000	0.001	2.69	0.79
hsa-miR-487b	0.001%	3.1	0.032	0.529	0.066	1.59	0.68
hsa-miR-509-3p(3)	0.001%	9.4	0.000	0.000	0.000	1.41	0.79
hsa-miR-1185-1-3p	0.001%	2.6	0.030	0.529	0.157		NA
hsa-miR-369*	0.001%	4.6	0.008	0.266	0.022	1.90	0.48
hsa-miR-31-3p	0.001%	3.1	0.050	0.618	0.219		NA
hsa-miR-122	0.0004%	10.7	0.009	0.269	0.018	0.48	0.13
hsa-miR-193b*	0.0004%	5.5	0.008	0.266	0.019		NA
hsa-miR-509-3-5p	0.0003%	2.6	0.032	0.529	0.361	0.39	0.16
hsa-miR-655	0.0003%	4.1	0.038	0.569	0.110	1.15	0.37
hsa-miR-506	0.0003%	7.1	0.001	0.074	0.015	1.58	0.52
hsa-miR-513c-5p	0.0002%	3.6	0.046	0.602	0.122	0.34	0.08
hsa-miR-514a*(3)	0.0002%	23.8	0.000	0.000	0.000		NA
hsa-miR-1247	0.0001%	11.8	0.006	0.266	0.042		NA
hsa-miR-509-5p(2)	0%	inf (0->3)	0.000	0.006	0.002	0.29	0.10
ID (miRNA cistronic clusters)							
cluster-hsa-mir-21(1)	4.03%	2.4	0.000	0.006	0.025		
cluster-hsa-mir-142(1)	0.10%	2.4	0.001	0.077	0.134		
cluster-hsa-mir-223(1)	0.02%	1.9	0.024	0.764	0.246		
cluster-hsa-mir-760(1)	0.01%	3.3	0.030	0.833	0.037		
cluster-hsa-mir-506(11)	0.01%	6.7	0.000	0.000	0.040		
cluster-hsa-mir-150(1)	0.01%	2.1	0.036	0.833	0.128		
hcmv-miR-US25-2-3p	0.001%	4.8	0.033	0.833	0.033		
cluster-hsa-mir-122(1)	0.0004%	11.2	0.007	0.308	0.055		
ebv-miR-BART6-3p	0.0003%	7.8	0.048	1.000	0.043		
cluster-hsa-mir-513c(1)	0.0002%	4.5	0.019	0.697	0.096		
cluster-hsa-mir-1247(1)	0.0001%	11.3	0.006	0.307	0.043		
cluster-hsa-mir-599(2)	0%	inf (0->1)	0.004	0.252	0.049		
ID (miRNA sequence families)							
sf-hsa-miR-21(1)	4.01%	2.4	0.000	0.008	0.028		
sf-hsa-miR-142-3p(1)	0.08%	2.6	0.001	0.026	0.067		
sf-hsa-miR-140-5p(1)	0.07%	0.3	0.033	0.504	0.001		
sf-hsa-miR-142-5p(1)	0.03%	1.8	0.024	0.415	0.331		
sf-hsa-miR-223(1)	0.02%	1.9	0.017	0.324	0.218		
sf-hsa-miR-218-1(2)	0.02%	1.8	0.050	0.559	0.224		
sf-hsa-miR-127-3p(1)	0.01%	1.9	0.040	0.548	0.078		
sf-hsa-miR-362-3p(1)	0.01%	0.1	0.012	0.271	0.003		
sf-hsa-miR-934(1)	0.01%	0.5	0.045	0.548	0.222		
sf-hsa-miR-760(1)	0.01%	3.3	0.016	0.321	0.026		

Supplementary Table S6: Differential expression analysis for sequence count data

ID	Mean normalized count in Normal	Fold change in IFTA	P-value	FDR	edgeR p-value	ligation bias [#]	SD of ligation bias [#]
sf-hsa-miR-150(1)	0.01%	2.1	0.024	0.415	0.128		
sf-hsa-miR-514a-1(4)	0.01%	5.1	0.000	0.000	0.032		
sf-hsa-miR-409-3p(1)	0.004%	2.7	0.007	0.209	0.018		
sf-hsa-miR-381(3)	0.004%	2.0	0.033	0.504	0.111		
sf-hsa-miR-21*(1)	0.003%	3.8	0.000	0.010	0.008		
sf-hsa-miR-338-3p(1)	0.003%	0.1	0.045	0.548	0.003		
sf-hsa-miR-361-3p(1)	0.002%	3.7	0.007	0.209	0.011		
sf-hsa-miR-369(2)	0.002%	2.6	0.048	0.559	0.042		
sf-hsa-miR-493(1)	0.002%	3.4	0.029	0.473	0.022		
sf-hsa-miR-508(1)	0.001%	8.4	0.000	0.000	0.001		
sf-hsa-miR-487a-3p(2)	0.001%	3.1	0.040	0.548	0.072		
sf-hsa-miR-509-1-3p(3)	0.001%	9.9	0.000	0.000	0.002		
hcmv-miR-US25-2-3p	0.001%	4.9	0.042	0.548	0.036		
sf-hsa-miR-369*(1)	0.001%	4.5	0.012	0.269	0.024		
sf-hsa-miR-122(1)	0.0004%	11.4	0.010	0.258	0.020		
sf-hsa-miR-193b*(1)	0.0004%	5.5	0.010	0.258	0.020		
sf-hsa-miR-509-1-5p(3)	0.0003%	7.0	0.001	0.026	0.008		
sf-hsa-miR-506(1)	0.0003%	6.9	0.002	0.085	0.025		
sf-hsa-miR-513c-5p(1)	0.0002%	3.5	0.046	0.548	0.125		
sf-hsa-miR-1247(1)	0.0001%	11.0	0.007	0.209	0.044		
sf-hsa-miR-514a-1*(3)	0%	inf (0->8)	0.000	0.000	0.000		

[#] ligation biases were derived from Hafner et al, RNA 2011 (supplemental reference #2), and represent fold expression over the expected value; NA = not available

Supplemental Digital Content (SDC)

Supplementary Table S7: MiRNA RT-QPCR results of Validation cohort kidney biopsies[#]

group sample/miRNA	IFTA I1	IFTA I2	IFTA I3	IFTA I4	IFTA I5	IFTA I6	IFTA I7	IFTA I8	IFTA I9	IFTA I10	Normal N1	Normal N2	Normal N3	Normal N4	Normal N5	Normal N6	Normal N7	Normal N8	p-value ^{##}	
																			non-normalized	U6-normalized
hsa-miR-140-5p	1.7E+07	1.4E+07	1.1E+07	9.0E+06	1.1E+07	1.6E+07	1.3E+07	1.4E+07	9.9E+06	1.7E+07	1.7E+07	1.7E+07	7.2E+06	1.1E+07	9.6E+06	5.5E+06	9.5E+06	2.2E+07	0.398	0.733
hsa-miR-142-3p	1.0E+07	3.2E+06	5.4E+06	6.1E+06	2.4E+07	8.0E+06	2.2E+07	2.8E+07	7.9E+06	4.8E+07	3.3E+06	1.0E+07	1.7E+06	2.0E+06	1.6E+06	2.5E+06	1.4E+06	3.4E+06	0.001	0.003
hsa-miR-142-5p	7.8E+01	5.2E+01	3.0E+01	1.5E+02	1.8E+03	8.0E+01	2.8E+02	3.3E+02	7.9E+01	4.9E+02	5.5E+01	1.8E+02	1.7E+01	5.5E+00	1.8E+01	1.1E+01	9.2E+00	3.7E+01	0.003	0.005
hsa-miR-21	8.9E+07	1.5E+07	2.3E+07	1.9E+07	5.5E+07	3.3E+07	6.3E+07	7.2E+07	2.6E+07	7.5E+07	1.9E+07	2.9E+07	1.1E+07	2.7E+07	1.5E+07	1.9E+07	2.8E+07	2.5E+07	0.018	0.069
hsa-miR-21*	6.0E+04	2.0E+04	3.2E+04	4.6E+04	1.2E+05	4.5E+04	9.2E+04	8.7E+04	5.3E+04	1.0E+05	3.3E+04	3.8E+04	7.2E+03	1.8E+04	4.0E+03	1.7E+04	3.6E+04	3.9E+04	0.004	0.008
hsa-miR-223	7.4E+07	5.2E+07	5.3E+07	8.7E+07	9.5E+07	5.7E+07	2.1E+08	1.8E+08	7.6E+07	2.1E+08	3.8E+07	8.3E+07	1.7E+07	2.5E+07	2.1E+07	2.4E+07	2.1E+07	3.2E+07	0.000	0.001
hsa-miR-30a*	9.2E+07	7.9E+07	6.6E+07	4.7E+07	2.5E+07	5.1E+07	5.0E+07	3.6E+07	2.8E+07	3.1E+07	7.0E+07	5.3E+07	5.2E+07	4.4E+07	4.8E+07	4.6E+07	3.7E+07	1.2E+08	0.392	0.141
hsa-miR-30b	2.6E+08	2.9E+08	2.6E+08	1.3E+08	7.9E+07	1.5E+08	1.0E+08	1.1E+08	7.6E+07	1.4E+08	2.5E+08	2.3E+08	2.1E+08	2.0E+08	1.9E+08	1.8E+08	1.4E+08	3.6E+08	0.062	0.005
hsa-miR-30c	3.6E+08	4.2E+08	2.8E+08	2.0E+08	1.4E+08	2.3E+08	2.3E+08	2.0E+08	1.5E+08	2.0E+08	3.5E+08	3.1E+08	2.8E+08	2.5E+08	2.8E+08	2.4E+08	2.4E+08	5.6E+08	0.080	0.010
hsa-miR-338-3p	3.0E+03	5.8E+03	2.3E+03	5.1E+02	7.5E+02	1.4E+03	9.5E+02	4.1E+02	6.0E+02	2.6E+02	4.1E+03	2.0E+04	1.6E+04	9.5E+02	1.0E+04	8.3E+03	3.3E+02	3.5E+03	0.022	0.014
hsa-miR-362-3p	3.3E+05	4.4E+05	3.6E+05	6.8E+04	5.7E+04	1.2E+05	1.1E+05	1.2E+05	5.8E+04	7.7E+04	2.5E+05	2.2E+05	2.2E+05	1.5E+05	2.1E+05	1.7E+05	7.3E+04	2.0E+05	0.345	0.170
hsa-miR-508	2.3E+04	4.7E+04	9.7E+03	6.6E+05	2.4E+05	1.5E+05	1.0E+05	8.4E+05	3.0E+05	1.3E+05	8.0E+03	7.0E+04	6.9E+04	3.0E+05	5.8E+04	1.6E+05	1.2E+05	1.2E+06	0.828	0.938
hsa-miR-509	1.0E+08	4.0E+05	1.6E+05	3.1E+06	1.7E+06	2.6E+08	9.5E+05	3.3E+06	1.5E+06	1.5E+08	2.4E+05	9.3E+07	4.9E+05	1.3E+06	1.2E+08	9.3E+05	7.7E+05	1.5E+08	0.968	0.977
hsa-miR-934	5.1E+03	4.1E+03	4.4E+03	1.4E+02	1.6E+00	2.8E+02	1.2E+01	1.3E+02	6.2E+01	3.2E+00	4.6E+03	1.8E+02	9.0E+01	1.8E+02	9.3E+02	1.6E+00	1.6E+00	1.0E+02	0.762	0.803
U6 (pool A)	1.6E+09	1.6E+09	1.3E+09	1.1E+09	7.0E+08	6.1E+08	8.1E+08	7.3E+08	7.7E+08	1.3E+09	1.3E+09	1.4E+09	7.8E+08	6.2E+08	6.0E+08	6.5E+08	1.1E+09	1.2E+09	0.599	

[#]miRNA quantity expressed as copies per one microgram of total RNA

^{##}t-tests was performed on log-transformed copy numbers without or with U6-normalization

Supplemental Digital Content (SDC)

Supplementary Table S8A: PAR-CLIP clusters (from supplemental reference #5) with miR-21 seed identified with in-house script

Type of match	Cluster	Sequence	Seed Hit	Position Found	Cluster Count	Gene ID	Symbol
8-mer matches (pos. 2-9)	slc12715_chr7	TGCCAACAACTACCCTGAGATTGCTGCAAAAGATAAGCTGA	GATAAGCT	32	202	222068	TMED4
	slc14770_chr10	CTCATCAGTATCTACCGGGATAAGCTCTTCTTTGTATCTGT	GATAAGCT	19	103	26985	AP3M1
	slc5473_chrX	AGGACAAGTAAACAATTTGATGATAAGCTACAGTTTTTCTT	GATAAGCT	22	58	10735	STAG2
7-mer matches (pos. 2-8)	slc10251_chr12	TATAAGCTATCGGAGGGTGGTACCGATCAGGAACGCTTTTT	ATAAGCT	2	168	605	BCL7A
	slc1051_chr6	CAGTCTCAATAAGCTCGGTTTATTATGGTAAAGAATGAGAA	ATAAGCT	9	11		
	slc11334_chr6	CTGGAACATAAATAAGCTTCATTGTGCCTTTTGTAGTGCTAG	ATAAGCT	11	12	10455	PECI
	slc12000_chr10	AGAGTAACATAAGCTGCTTTTCAAAGGTACCATTGTGATAA	ATAAGCT	9	6	91452	ACBD5
	slc12267_chr5	ATGTAACAAAACCCAGCACATTATCTGCACTATAAGCTCAA	ATAAGCT	32	22	57472	CNOT6
	slc1259_chr4	ATTGAAAAATTTTCCACTATTTTATAAGCTGTTAATTTCT	ATAAGCT	25	7	80306	MED28
	slc12715_chr7	TGCCAACAACTACCCTGAGATTGCTGCAAAAGATAAGCTGA	ATAAGCT	33	202	222068	TMED4
	slc14770_chr10	CTCATCAGTATCTACCGGGATAAGCTCTTCTTTGTATCTGT	ATAAGCT	20	103	26985	AP3M1
	slc15207_chr8	ATATGGTTTGCTAAAATCTATAAGCTGCTTATTAACACAGA	ATAAGCT	20	193	27161	EIF2C2
	slc15936_chr12	ACCGAGACGGTGGAGCTCCATAAGCTAAAGGTACCGTGAAT	ATAAGCT	20	10	84324	SARNP
	slc20980_chr6	ATATGTATTCTTTAAATTTCTCTGATACTATAAGCTTT	ATAAGCT	33	38		
	slc2397_chr12	TCTCCAGAATAAGCTTTTCGATGCCAGGACAGTGACTGCCTG	ATAAGCT	9	14	11228	RASSF8
	slc2489_chr16	GCATAAGCTGAGGTAGAATTCTTTAAGCTGCAGCAAAA	ATAAGCT	3	7	84901	NFATC2IP
	slc2611_chr12	AGTAGCAGCTGTAAATAAGCTTACTTGAACATAATTACTTGA	ATAAGCT	15	7	57542	KLHDC5
	slc32167_chr1	ATGTTATAACAAGGACTCGTTCATGTATATAAGCTATTTCT	ATAAGCT	29	15	57459	GATAD2B
	slc36799_chr1	GGTTTTCCAATAAGCTATGGTAACCCCTAAAGAACAAAGGAT	ATAAGCT	10	11	55432	YOD1
	slc3701_chr12	TGGCAATATATTAAGACACATAAGCTCCAGGACCCTCACGA	ATAAGCT	20	14	6602	SMARCD1
	slc38967_chr1	GAAGTGCCACTTTACTCTATATTCATAAGCTGTGCCATGT	ATAAGCT	26	30	149371	EXOC8
	slc4375_chr9	TCTGCATTATGGGACCCAACTATAAGCTGGAGAACTGGTCG	ATAAGCT	22	9	7357	UGCG
	slc5473_chrX	AGGACAAGTAAACAATTTGATGATAAGCTACAGTTTTTCTT	ATAAGCT	23	58	10735	STAG2
	slc550_chr22	ATGCTAATATATTTATCTCATTGTTTACATAAGCTTTTACA	ATAAGCT	29	237	23119	HIC2
	slc5577_chr17	ATAAGCTTAATTTATTAATTTACCAGGCTTAATTAAGATCC	ATAAGCT	1	76	10642	IGF2BP1
	slc5920_chr22	TCAGCATAAGCTGAAATATATGCATGTAAAACTTTGACAT	ATAAGCT	6	6	10521	DDX17
	slc5941_chr18	CAATGAGCATGTTTAGACTTTAACATAAGCTATTTTCTAA	ATAAGCT	25	13	4092	SMAD7
	slc5990_chr7	TCAATAAGCTGTTTTATCAGTTACGGCTTCTACAAGTTTGC	ATAAGCT	4	6		
	slc6008_chr14	AATGGATCTCATGAGGCGAATAAGCTGCAAGACATGTTGGA	ATAAGCT	20	34	1983	EIF5
	slc6441_chr12	TCCAGTATTTATTTATAAGCTGTTTACTTTTCAAGTTGATA	ATAAGCT	15	33	10818	FRS2
	slc7090_chr6	AGAGGCAATAGCATACAACTGATTTTTTAAATATAAGCTT	ATAAGCT	34	5	2309	FOXO3
	slc8498_chr10	TCTTAAGTGGAATATTCTAATAAGCTACCTTTTGTAAGTGC	ATAAGCT	20	27	27250	PDCD4
	slc8663_chr15	TCCGTTTGCATTCACTCCAATAAGCTCCAGTATGGCATATC	ATAAGCT	20	7	64864	RFX7
	slc8700_chr5	TTTAAATAAGATTTTAAAGTTGGTCTTACATAAGCTGTGA	ATAAGCT	31	13		
	slc8969_chr3	GTATCAGGCCTTGTTATAAATAAGCTGCATAATCAATAAAT	ATAAGCT	20	30	4154	MBNL1
	slc9340_chr8	AATAAGCTACTATTCTTATCTGTGCAATATGCATTTTATTT	ATAAGCT	2	190		
	slc9357_chr16	TGTGTTTGGCTGCACCTGCATAAGCTGTACAAATAGAATA	ATAAGCT	20	10	10294	DNAJA2
	slc9733_chr4	TGGATCCAGAAATATGAGCTTTGTGTAATAAGCTTCTTAAA	ATAAGCT	28	42	3954	LETM1
	slc9736_chr9	TGTACTTTTTGAACATAAGCTGCACCTTTTATTTTCTAATGC	ATAAGCT	15	15	687	KLF9
	slc9847_chr19	AAACCAGACTCACTCTTTAATGCCTGCATAAGCTATTGTGA	ATAAGCT	28	14	390980	ZNF805

Supplementary Table S8A: PAR-CLII

Type of match	Cluster	Description
8-mer matches (pos. 2-9)	slc12715_chr7	transmembrane emp24 protein transport domain containing 4
	slc14770_chr10	adaptor-related protein complex 3
	slc5473_chrX	stromal antigen 2
7-mer matches (pos. 2-8)	slc10251_chr12	B-cell CLL/lymphoma 7A
	slc1051_chr6	
	slc11334_chr6	peroxisomal D3
	slc12000_chr10	acyl-Coenzyme A binding domain containing 5
	slc12267_chr5	CCR4-NOT transcription complex
	slc1259_chr4	mediator complex subunit 28
	slc12715_chr7	transmembrane emp24 protein transport domain containing 4
	slc14770_chr10	adaptor-related protein complex 3
	slc15207_chr8	eukaryotic translation initiation factor 2C
	slc15936_chr12	SAP domain containing ribonucleoprotein
	slc20980_chr6	
	slc2397_chr12	Ras association (RalGDS/AF-6) domain family (N-terminal) member 8
	slc2489_chr16	nuclear factor of activated T-cells
	slc2611_chr12	kelch domain containing 5
	slc32167_chr1	GATA zinc finger domain containing 2B
	slc36799_chr1	YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae)
	slc3701_chr12	SWI/SNF related
	slc38967_chr1	exocyst complex component 8
	slc4375_chr9	UDP-glucose ceramide glucosyltransferase
	slc5473_chrX	stromal antigen 2
	slc550_chr22	hypermethylated in cancer 2
	slc5577_chr17	insulin-like growth factor 2 mRNA binding protein 1
	slc5920_chr22	DEAD (Asp-Glu-Ala-Asp) box polypeptide 17
	slc5941_chr18	SMAD family member 7
	slc5990_chr7	
	slc6008_chr14	eukaryotic translation initiation factor 5
	slc6441_chr12	fibroblast growth factor receptor substrate 2
	slc7090_chr6	forkhead box O3
	slc8498_chr10	programmed cell death 4 (neoplastic transformation inhibitor)
	slc8663_chr15	regulatory factor X
	slc8700_chr5	
	slc8969_chr3	muscleblind-like (Drosophila)
	slc9340_chr8	
	slc9357_chr16	DnaJ (Hsp40) homolog
	slc9733_chr4	leucine zipper-EF-hand containing transmembrane protein 1
	slc9736_chr9	Kruppel-like factor 9
	slc9847_chr19	zinc finger protein 805

Supplemental Digital Content (SDC)

Supplementary Table S8A: PAR-CLIP clusters (from supplemental reference #5) with miR-21 seed identified with in-house script

Type of match	Cluster	Sequence	Seed Hit	Position Found	Cluster Count	Gene ID	Symbol
8-mer matches (pos. 2-9)	slc12715_chr7	TGCCAACAACTACCCTGAGATTGCTGCAAAAGATAAGCTGA	GATAAGCT	32	202	222068	TMED4
	slc14770_chr10	CTCATCAGTATCTACCGGGATAAGCTCTTCTTTGTATCTGT	GATAAGCT	19	103	26985	AP3M1
	slc5473_chrX	AGGACAAGTAAACAATTTGATGATAAGCTACAGTTTTTCTT	GATAAGCT	22	58	10735	STAG2
7-mer matches (pos. 2-8)	slc10251_chr12	TATAAGCTATCGGAGGGTGGTACCGATCAGGAACGCTTTTT	ATAAGCT	2	168	605	BCL7A
	slc1051_chr6	CAGTCTCAATAAGCTCGGTTTATTATGGTAAAGAATGAGAA	ATAAGCT	9	11		
	slc11334_chr6	CTGGAACATAAATAAGCTTCATTGTGCCTTTTGTAGTGCTAG	ATAAGCT	11	12	10455	PECI
	slc12000_chr10	AGAGTAACATAAGCTGCTTTTCAAAGGTACCATTGTGATAA	ATAAGCT	9	6	91452	ACBD5
	slc12267_chr5	ATGTAACAAAACCCAGCACATTATCTGCACTATAAGCTCAA	ATAAGCT	32	22	57472	CNOT6
	slc1259_chr4	ATTGAAAAATTTTCCACTATTTTATAAGCTGTTAATTTCT	ATAAGCT	25	7	80306	MED28
	slc12715_chr7	TGCCAACAACTACCCTGAGATTGCTGCAAAAGATAAGCTGA	ATAAGCT	33	202	222068	TMED4
	slc14770_chr10	CTCATCAGTATCTACCGGGATAAGCTCTTCTTTGTATCTGT	ATAAGCT	20	103	26985	AP3M1
	slc15207_chr8	ATATGGTTTGCTAAAATCTATAAGCTGCTTATTAACACAGA	ATAAGCT	20	193	27161	EIF2C2
	slc15936_chr12	ACCGAGACGGTGGAGCTCCATAAGCTAAAGGTACCGTGAAT	ATAAGCT	20	10	84324	SARNP
	slc20980_chr6	ATATGTATTCTTTAAATTTCTCTGATACTATAAGCTTT	ATAAGCT	33	38		
	slc2397_chr12	TCTCCAGAATAAGCTTTTCGATGCCAGGACAGTGACTGCCTG	ATAAGCT	9	14	11228	RASSF8
	slc2489_chr16	GCATAAGCTGAGGTAGAATTCTTTAAGCTGCAGCAAAA	ATAAGCT	3	7	84901	NFATC2IP
	slc2611_chr12	AGTAGCAGCTGTAAATAAGCTTACTTGAACATAATTACTTGA	ATAAGCT	15	7	57542	KLHDC5
	slc32167_chr1	ATGTTATAACAAGGACTCGTTCATGTATATAAGCTATTTCT	ATAAGCT	29	15	57459	GATAD2B
	slc36799_chr1	GGTTTTCCAATAAGCTATGGTAACCCCTAAAGAACAAAGGAT	ATAAGCT	10	11	55432	YOD1
	slc3701_chr12	TGGCAATATATTAAGACACATAAGCTCCAGGACCCTCACGA	ATAAGCT	20	14	6602	SMARCD1
	slc38967_chr1	GAAGTGCCACTTTACTCTATATTCATAAGCTGTGCCATGT	ATAAGCT	26	30	149371	EXOC8
	slc4375_chr9	TCTGCATTATGGGACCCAACTATAAGCTGGAGAACTGGTCG	ATAAGCT	22	9	7357	UGCG
	slc5473_chrX	AGGACAAGTAAACAATTTGATGATAAGCTACAGTTTTTCTT	ATAAGCT	23	58	10735	STAG2
	slc550_chr22	ATGCTAATATATTTATCTCATTGTTTACATAAGCTTTTACA	ATAAGCT	29	237	23119	HIC2
	slc5577_chr17	ATAAGCTTAATTTATTAATTTACCAGGCTTAATTAAGATCC	ATAAGCT	1	76	10642	IGF2BP1
	slc5920_chr22	TCAGCATAAGCTGAAATATATGCATGTAAAACTTTGACAT	ATAAGCT	6	6	10521	DDX17
	slc5941_chr18	CAATGAGCATGTTTAGACTTTAACATAAGCTATTTTTCTAA	ATAAGCT	25	13	4092	SMAD7
	slc5990_chr7	TCAATAAGCTGTTTTATCAGTTACGGCTTCTACAAGTTTGC	ATAAGCT	4	6		
	slc6008_chr14	AATGGATCTCATGAGGCGAATAAGCTGCAAGACATGTTGGA	ATAAGCT	20	34	1983	EIF5
	slc6441_chr12	TCCAGTATTTATTTATAAGCTGTTTACTTTTCAAGTTGATA	ATAAGCT	15	33	10818	FRS2
	slc7090_chr6	AGAGGCAATAGCATACAACTGATTTTTTAAATATAAGCTT	ATAAGCT	34	5	2309	FOXO3
	slc8498_chr10	TCTTAAGTGGAATATTCTAATAAGCTACCTTTTGTAAGTGC	ATAAGCT	20	27	27250	PDCD4
	slc8663_chr15	TCCGTTTGCATTCACTCCAATAAGCTCCAGTATGGCATATC	ATAAGCT	20	7	64864	RFX7
	slc8700_chr5	TTTAAATAAGATTTTAAAGTTGGTCTTACATAAGCTGTGA	ATAAGCT	31	13		
	slc8969_chr3	GTATCAGGCCTTGTTATAAATAAGCTGCATAATCAATAAAT	ATAAGCT	20	30	4154	MBNL1
	slc9340_chr8	AATAAGCTACTATTCTATCTGTGCAATATGCATTTTATTT	ATAAGCT	2	190		
	slc9357_chr16	TGTGTTTGGCTGCACCTGCATAAGCTGTACAAATAGAATA	ATAAGCT	20	10	10294	DNAJA2
	slc9733_chr4	TGGATCCAGAAATATGAGCTTTGTGTAATAAGCTTCTTAAA	ATAAGCT	28	42	3954	LETM1
	slc9736_chr9	TGTACTTTTTGAACATAAGCTGCACTTTTATTTTCTAATGC	ATAAGCT	15	15	687	KLF9
	slc9847_chr19	AAACCAGACTCACTCTTTAATGCCTGCATAAGCTATTGTGA	ATAAGCT	28	14	390980	ZNF805

Table S8A: PAR-CLII

Cluster	Description
slc12715_chr7	transmembrane emp24 protein transport domain containing 4
slc14770_chr10	adaptor-related protein complex 3
slc5473_chrX	stromal antigen 2
slc10251_chr12	B-cell CLL/lymphoma 7A
slc1051_chr6	
slc11334_chr6	peroxisomal D3
slc12000_chr10	acyl-Coenzyme A binding domain containing 5
slc12267_chr5	CCR4-NOT transcription complex
slc1259_chr4	mediator complex subunit 28
slc12715_chr7	transmembrane emp24 protein transport domain containing 4
slc14770_chr10	adaptor-related protein complex 3
slc15207_chr8	eukaryotic translation initiation factor 2C
slc15936_chr12	SAP domain containing ribonucleoprotein
slc20980_chr6	
slc2397_chr12	Ras association (RalGDS/AF-6) domain family (N-terminal) member 8
slc2489_chr16	nuclear factor of activated T-cells
slc2611_chr12	kelch domain containing 5
slc32167_chr1	GATA zinc finger domain containing 2B
slc36799_chr1	YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae)
slc3701_chr12	SWI/SNF related
slc38967_chr1	exocyst complex component 8
slc4375_chr9	UDP-glucose ceramide glucosyltransferase
slc5473_chrX	stromal antigen 2
slc550_chr22	hypermethylated in cancer 2
slc5577_chr17	insulin-like growth factor 2 mRNA binding protein 1
slc5920_chr22	DEAD (Asp-Glu-Ala-Asp) box polypeptide 17
slc5941_chr18	SMAD family member 7
slc5990_chr7	
slc6008_chr14	eukaryotic translation initiation factor 5
slc6441_chr12	fibroblast growth factor receptor substrate 2
slc7090_chr6	forkhead box O3
slc8498_chr10	programmed cell death 4 (neoplastic transformation inhibitor)
slc8663_chr15	regulatory factor X
slc8700_chr5	
slc8969_chr3	muscleblind-like (Drosophila)
slc9340_chr8	
slc9357_chr16	DnaJ (Hsp40) homolog
slc9733_chr4	leucine zipper-EF-hand containing transmembrane protein 1
slc9736_chr9	Kruppel-like factor 9
slc9847_chr19	zinc finger protein 805

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Supplementary Table S8B: PAR-CLIP clusters (from supplemental reference #5) with miR-21 seed identified with miRanda

Identified also by in-house script (Table S8A)?	Cluster	Tot Score	Tot Energy	Max Score	Max Energy	Strand	Len1	Len2	Positions	Gene ID	Gene symbol
	slc12122_chr17	144	-11.95	144	-11.95	174	23	41	1	57532	NUFIP2
	slc6370_chr12	140	-15.9	140	-15.9	179	23	41	3	8089	YEATS4
	slc1106_chr22	148	-17.18	148	-17.18	287	23	41	5	150275	CCDC117
	slc18512_chr6	149	-17.61	149	-17.61	335	23	41	4	2534	FYN
yes	slc6008_chr14	158	-15.99	158	-15.99	449	23	41	5	1983	EIF5
yes	slc8663_chr15	158	-12.55	158	-12.55	1427	23	41	4	64864	RFX7
	slc11988_chr8	142	-14.41	142	-14.41	2170	23	41	1	55824	PAG1
yes	slc550_chr22	154	-12.92	154	-12.92	2575	23	41	14	23119	HIC2
	slc3389_chr22	140	-13.84	140	-13.84	2739	23	41	1	23151	GRAMD4
yes	slc12000_chr10	146	-11.25	146	-11.25	2798	23	41	1	91452	ACBD5
	slc7186_chr15	145	-16.76	145	-16.76	3236	23	41	6	6727	SRP14
yes	slc5920_chr22	143	-11.31	143	-11.31	3641	23	41	1	10521	DDX17
yes	slc20980_chr6	142	-9.96	142	-9.96	3661	23	41	19		
	slc6924_chr12	142	-13.42	142	-13.42	4575	23	41	1	552889	-
yes	slc38967_chr1	147	-9.22	147	-9.22	4645	23	41	11	149371	EXOC8
	slc11835_chrX	142	-10.89	142	-10.89	5469	23	41	7	8471	IRS4
yes	slc9357_chr16	146	-13.24	146	-13.24	5471	23	41	4	10294	DNAJA2
	slc13496_chr8	149	-18.5	149	-18.5	5583	23	41	14	29967	LRP12
	slc4398_chr16	148	-19.96	148	-19.96	5940	23	41	10	80262	C16orf70
yes	slc36799_chr1	144	-9.62	144	-9.62	6146	23	41	1	55432	YOD1
yes	slc7090_chr6	140	-8.69	140	-8.69	6278	23	41	19	2309	FOXO3
	slc3439_chr2	153	-14.75	153	-14.75	6318	23	41	10	2956	MSH6
	slc13524_chr3	140	-14.35	140	-14.35	6624	23	41	2	7342	UBP1
yes	slc5473_chrX	157	-16.35	157	-16.35	6698	23	41	8	10735	STAG2
	slc3451_chr2	143	-14.76	143	-14.76	6794	23	41	13	2956	MSH6
	slc31776_chr1	149	-15.02	149	-15.02	7684	23	41	5	29956	LASS2
yes	slc2397_chr12	140	-9.76	140	-9.76	8163	23	41	1	11228	RASSF8
yes	slc5941_chr18	140	-8.98	140	-8.98	8222	23	41	10	4092	SMAD7
	slc5335_chr11	149	-17.16	149	-17.16	8252	23	41	16	595	CCND1
	slc3477_chr5	144	-15.25	144	-15.25	9381	23	41	3	55914	ERBB2IP
	slc9191_chr19	140	-11.49	140	-11.49	9457	23	41	5	26121	PRPF31
yes	slc15207_chr8	148	-10.93	148	-10.93	9674	23	41	6	27161	EIF2C2
yes	slc12715_chr7	145	-11.93	145	-11.93	9878	23	41	18	222068	TMED4
yes	slc9847_chr19	148	-12.77	148	-12.77	10140	23	41	12	390980	ZNF805
yes	slc8700_chr5	160	-16.13	160	-16.13	10415	23	41	14		
	slc9168_chrX	142	-18.64	142	-18.64	11276	23	41	6	56850	GRIPAP1
yes	slc1051_chr6	158	-14.69	158	-14.69	11534	23	41	1		
	slc27458_chr2	144	-11.88	144	-11.88	12289	23	41	13	23314	SATB2
	slc8091_chr20	153	-20.08	153	-20.08	12827	23	41	5	10955	SERINC3
	slc2269_chr12	156	-20.8	156	-20.8	12884	23	41	1	55500	ETNK1

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Supplementary Table S8B: PAR-CLIP clusters (from supplemental reference #5) with miR-21 seed identified with miRanda

Identified also by in-house script (Table S8A)?	Cluster	Tot Score	Tot Energy	Max Score	Max Energy	Strand	Len1	Len2	Positions	Gene ID	Gene symbol
yes	slc8498_chr10	157	-13	157	-13	12990	23	41	5	27250	PDCD4
yes	slc5577_chr17	140	-6.47	140	-6.47	13050	23	41	1	10642	IGF2BP1
yes	slc9340_chr8	140	-8.36	140	-8.36	13926	23	41	1		
	slc5901_chr5	144	-18.26	144	-18.26	14401	23	41	22	285704	RGMB
yes	slc4375_chr9	141	-10.81	141	-10.81	14450	23	41	8	7357	UGCG
	slc12928_chr9	144	-17.49	144	-17.49	14500	23	41	14	54542	RC3H2
	slc9997_chr17	144	-17.25	144	-17.25	14545	23	41	4	708	C1QBP
yes	slc9733_chr4	154	-10.44	154	-10.44	14556	23	41	14	3954	LETM1
	slc2246_chr16	140	-13.92	140	-13.92	14573	23	41	14	27327	TNRC6A
	slc565_chr22	144	-22.31	144	-22.31	15109	23	41	14	7332	UBE2L3
	slc3337_chr17	150	-15.28	150	-15.28	15786	23	41	5	8851	CDK5R1
	slc13528_chr4	144	-14.25	144	-14.25	16035	23	41	5	113510	HELQ
yes	slc10251_chr12	140	-8.1	140	-8.1	16391	23	41	1	605	BCL7A
	slc150_chrM	148	-17.8	148	-17.8	16393	23	41	8		
	slc14826_chr4	146	-17.59	146	-17.59	16524	23	41	9	81579	PLA2G12A
yes	slc12267_chr5	156	-15.8	156	-15.8	16586	23	41	14	57472	CNOT6
yes	slc32167_chr1	149	-13.81	149	-13.81	16623	23	41	14	57459	GATAD2B
	slc310_chr6	142	-20.68	142	-20.68	16752	23	41	13	8899	PRPF4B
yes	slc11334_chr6	140	-7.65	140	-7.65	17022	23	41	1	10455	PECI
yes	slc6441_chr12	159	-14.82	159	-14.82	17842	23	41	1	10818	FRS2
yes	slc15936_chr12	142	-14.35	142	-14.35	18095	23	41	5	84324	SARNP
yes	slc2489_chr16	140	-7.88	140	-7.88	18408	23	41	1	84901	NFATC2IP
yes	slc14770_chr10	156	-18.96	156	-18.96	18479	23	41	4	26985	AP3M1
yes	slc1259_chr4	158	-9.95	158	-9.95	18661	23	41	10	80306	MED28
yes	slc2611_chr12	153	-13.83	153	-13.83	18867	23	41	1	57542	KLHDC5
yes	slc9736_chr9	140	-10.37	140	-10.37	18891	23	41	1	687	KLF9
	slc9700_chr15	140	-13.57	140	-13.57	18993	23	41	13	54962	TIPIN
yes	slc3701_chr12	154	-11.24	154	-11.24	19339	23	41	4	6602	SMARCD1
yes	slc5990_chr7	140	-8.26	140	-8.26	19355	23	41	1		
yes	slc8969_chr3	143	-12.05	143	-12.05	19681	23	41	4	4154	MBNL1

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Supplementary Table S8B: PAR-CLIP clusters (from su

Identified also by in-house script (Table S8A)?	Cluster	Description
	slc12122_chr17	nuclear fragile X mental retardation protein interacting protein 2
	slc6370_chr12	YEATS domain containing 4
	slc1106_chr22	coiled-coil domain containing 117
	slc18512_chr6	FYN oncogene related to SRC
yes	slc6008_chr14	eukaryotic translation initiation factor 5
yes	slc8663_chr15	regulatory factor X
	slc11988_chr8	phosphoprotein associated with glycosphingolipid microdomains 1
yes	slc550_chr22	hypermethylated in cancer 2
	slc3389_chr22	GRAM domain containing 4
yes	slc12000_chr10	acyl-Coenzyme A binding domain containing 5
	slc7186_chr15	signal recognition particle 14kDa (homologous Alu RNA binding protein)
yes	slc5920_chr22	DEAD (Asp-Glu-Ala-Asp) box polypeptide 17
yes	slc20980_chr6	
	slc6924_chr12	-
yes	slc38967_chr1	exocyst complex component 8
	slc11835_chrX	insulin receptor substrate 4
yes	slc9357_chr16	DnaJ (Hsp40) homolog
	slc13496_chr8	low density lipoprotein-related protein 12
	slc4398_chr16	chromosome 16 open reading frame 70
yes	slc36799_chr1	YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae)
yes	slc7090_chr6	forkhead box O3
	slc3439_chr2	mutS homolog 6 (E. coli)
	slc13524_chr3	upstream binding protein 1 (LBP-1a)
yes	slc5473_chrX	stromal antigen 2
	slc3451_chr2	mutS homolog 6 (E. coli)
	slc31776_chr1	LAG1 homolog
yes	slc2397_chr12	Ras association (RalGDS/AF-6) domain family (N-terminal) member 8
yes	slc5941_chr18	SMAD family member 7
	slc5335_chr11	cyclin D1
	slc3477_chr5	erbb2 interacting protein
	slc9191_chr19	PRP31 pre-mRNA processing factor 31 homolog (S. cerevisiae)
yes	slc15207_chr8	eukaryotic translation initiation factor 2C
yes	slc12715_chr7	transmembrane emp24 protein transport domain containing 4
yes	slc9847_chr19	zinc finger protein 805
yes	slc8700_chr5	
	slc9168_chrX	GRIP1 associated protein 1
yes	slc1051_chr6	
	slc27458_chr2	SATB homeobox 2
	slc8091_chr20	serine incorporator 3
	slc2269_chr12	ethanolamine kinase 1

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Supplementary Table S8B: PAR-CLIP clusters (from su

Identified also by in-house script (Table S8A)?	Cluster	Description
yes	slc8498_chr10	programmed cell death 4 (neoplastic transformation inhibitor)
yes	slc5577_chr17	insulin-like growth factor 2 mRNA binding protein 1
yes	slc9340_chr8	
	slc5901_chr5	RGM domain family
yes	slc4375_chr9	UDP-glucose ceramide glucosyltransferase
	slc12928_chr9	ring finger and CCCH-type zinc finger domains 2
	slc9997_chr17	complement component 1
yes	slc9733_chr4	leucine zipper-EF-hand containing transmembrane protein 1
	slc2246_chr16	trinucleotide repeat containing 6A
	slc565_chr22	ubiquitin-conjugating enzyme E2L 3
	slc3337_chr17	cyclin-dependent kinase 5
	slc13528_chr4	helicase
yes	slc10251_chr12	B-cell CLL/lymphoma 7A
	slc150_chrM	
	slc14826_chr4	phospholipase A2
yes	slc12267_chr5	CCR4-NOT transcription complex
yes	slc32167_chr1	GATA zinc finger domain containing 2B
	slc310_chr6	PRP4 pre-mRNA processing factor 4 homolog B (yeast)
yes	slc11334_chr6	peroxisomal D3
yes	slc6441_chr12	fibroblast growth factor receptor substrate 2
yes	slc15936_chr12	SAP domain containing ribonucleoprotein
yes	slc2489_chr16	nuclear factor of activated T-cells
yes	slc14770_chr10	adaptor-related protein complex 3
yes	slc1259_chr4	mediator complex subunit 28
yes	slc2611_chr12	kelch domain containing 5
yes	slc9736_chr9	Kruppel-like factor 9
	slc9700_chr15	TIMELESS interacting protein
yes	slc3701_chr12	SWI/SNF related
yes	slc5990_chr7	
yes	slc8969_chr3	muscleblind-like (Drosophila)