

Supplementary Figure S4

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.....CCAAUUUUUAUCAAGGA.....	1	
.....CCAAUUUUUAUCAAGGAA.....	48	
.....CCAAUUUUUAUCAAGGAAA.....	97	
.....CCAAUUUUUAUCAAGGAAAG.....	47	
.....CCAAUUUUUAUCAAGGAAAGC.....	198	
.....CCAAUUUUUAUCAAGGAAAGCU.....	2	
.....CAAUUUUUAUCAAGGAA.....	1	
.....CUUCCUUGACAAAAAUUGCC.....	7	
.....CUUCCUUGACAAAAAUUGCCC.....	6	
.....CCUUGACAAAAAUUGCC.....	1	
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.....CCAGUUAGGGUUUA AUGGU.....		14
.....CCAGUUAGGGUUUA AUGGU.....		64
.....CCAGUUAGGGUUUA AUGGUUC.....		14
.....ACCGUUGAGCCCUUUCUGA.....		125
.....ACCGUUGAGCCCUUUCUGAU.....		139
.....ACCGUUGAGCCCUUUCUGAUUU.....		2
.....CCGUUGAGCCCUUUCUGAUU.....		1
.....CGUUGAGCCCUUUCUGAU.....		1
>ddi-mir-7095 miRNAstart=128 miRNAstarStart=22		
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.....UUUCCAUUUUUAAACAGAUACA.....		1
.....UUCCAUUUUUAAACAGA.....		1
.....UUCCAUUUUUAAACAGAU.....		27
.....UUCCAUUUUUAAACAGAUAC.....		7
.....UUCCAUUUUUAAACAGAUACA.....		119
.....UUCCAUUUUUAAACAGAUACAA.....		17
.....UUCCAUUUUUAAACAGAUACAAAA.....		1
.....UCCAUUUUUAAACAGAUACA.....		2
.....UCCAUUUUUAAACAGAUACAAA.....		1
.....GGAUCUGUUAAAAUUGGAU.....		7
.....GGAUCUGUUAAAAUUGGAUA.....		67
.....GGAUCUGUUAAAAUUGGAUAA.....		247
.....GGAUCUGUUAAAAUUGGAUAAA.....		5
.....GAUCUGUUAAAAUUGGAUAA.....		2
>ddi-mir-7096 miRNAstart=85 miRNAstarStart=19		
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.....UCUGUGAACAAUCAAGAU.....		1
.....UCUGUGAACAAUCAAGAUUUG.....		1
.....AAUCUUAUUUGUUCACAGA.....		2
.....AAUCUUAUUUGUUCACAGAC.....		23
.....AAUCUUAUUUGUUCACAGACC.....		2
.....AAUCUUAUUUGUUCACAGACCC.....		
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.....CUUCUCUACUAGUGCCGAAAU.....		1
.....UUCUCUACUAGUGCCGAA.....		1
.....UUCUCUACUAGUGCCGAAA.....		1

1
13
1
1

1
1
8
1

3
1
8
1

1
5
1
1

14

1
1
4 6
6
1
6
1 6
1
1

2
6
2
5
3

1
1
1
1
2
1 1
3
1
1

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.....AAACAAUGGCACCUCUAACA.....	2
.....AAACAAUGGCACCUCUAACAG.....	13
.....AAACAAUGGCACCUCUAACAGA.....	40
.....AACAAUGGCACCUCUAACAGA.....	5
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.....CAAUGGCACCUCUAACAG.....	2
.....GGCACCUCUAACAGAGGAAUAACGGUGU.....	1

>ddi-mir-7105 miRNAstart=21	
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.....AGUUACCAUUUACUACCACA.....	4
.....GUUACCAUUUACUACC.....	1
.....GUUACCAUUUACUACCA.....	4
.....GUUACCAUUUACUACCACA.....	58
.....GUUACCAUUUACUACCACAC.....	12
.....GUUACCAUUUACUACCACACC.....	32
.....UUACCAUUUACUACC.....	1
.....UUACCAUUUACUACCA.....	9
.....UUACCAUUUACUACCAC.....	1
.....UUACCAUUUACUACCACA.....	16
.....UUACCAUUUACUACCACAC.....	14
.....UUACCAUUUACUACCACACC.....	49
.....UUACCAUUUACUACCACACCU.....	2
.....UACCAUUUACUACCA.....	1
.....UACCAUUUACUACCACA.....	1
.....UACCAUUUACUACCACAC.....	2
.....UACCAUUUACUACCACACC.....	7
.....UACCAUUUACUACCACACCU.....	9
.....ACCAUUUACUACCACA.....	2
.....ACCAUUUACUACCACAC.....	2
.....ACCAUUUACUACCACACC.....	4
.....ACCAUUUACUACCACACCU.....	5
.....ACCAUUUACUACCACACCUA.....	5
.....CCAAUUUACUACCACAC.....	1
.....CCAAUUUACUACCACACCUAA.....	2
.....ACUACCACACCUAAUACAAAU.....	4
.....CUACCACACCUAAUACAAAU.....	1
.....CUACCACACCUAAUACAAAU.....	1

>ddi-mir-7131a miRNAstart=60 miRNAstarStart=4	
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..UGGCUGCUGAAAAUAAUAUGG.....	7
..UGGCUGCUGAAAAUAAUAUGGU.....	1
..GGCUGCUGAAAAUAAUAUGG.....	1
..GGCUGCUGAAAAUAAUAUGGU.....	9
..GGCUGCUGAAAAUAAUAUGGUA.....	1
.....UCUAGCAGACAUAAAGUCC.....	1
.....GCAGACAUAAAGUCCCA.....	1
.....GCAGACAUAAAGUCCCAUGCCA.....	1
.....CAUAUUAAUUUCAGCAUCCAU.....	22

>ddi-mir-7131d miRNAstart=19	
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..UAUGUCUGCUAGAAUUAC.....	1
..UGUCUGCUAGAAUUACC.....	1
.....AUUACCACAUUAAUUUCAGCA.....	1
.....UUACCACAUUAAUUUCAGCAG.....	1
.....UACCACAUUAAUUUCAGCAG.....	1
.....UACCACAUUAAUUUCAGCAGC.....	2
.....UACCACAUUAAUUUCAGCAGCC.....	1
.....ACCACAUUAAUUUCAG.....	1
.....ACCACAUUAAUUUCAGC.....	1
.....ACCACAUUAAUUUCAGCA.....	1
.....ACCACAUUAAUUUCAGCAG.....	3
.....ACCACAUUAAUUUCAGCAGC.....	10
.....ACCACAUUAAUUUCAGCAGCC.....	148
.....ACCACAUUAAUUUCAGCAGCCA.....	7
.....ACCACAUUAAUUUCAGCAGCCAU.....	2

.....ACCACAUUAAUUUCAGCAGCCAUAU.....	1
.....CCACAUUAAUUUCAGCA.....	1
.....CCACAUUAAUUUCAGCAGC.....	1
.....CCACAUUAAUUUCAGCAGCC.....	7
.....CCACAUUAAUUUCAGCAGCCA.....	15
.....CCACAUUAAUUUCAGCAGCCAU.....	3
.....CACAUUAAUUUCAGCAGCCA.....	1
.....CACAUUAAUUUCAGCAGCCAU.....	1
.....ACAUUAAUUUCAGCAGCCAU.....	1
.....ACAUUAAUUUCAGCAGCCAU.....	3
.....ACAUUAAUUUCAGCAGCCAU.....	3
.....CAUUAAUUUCAGCAGCCAU.....	1
.....CAUUAAUUUCAGCAGCCAU.....	3
.....CAUUAAUUUCAGCAGCCAUUU.....	1
.....AUUAAUUUCAGCAGCCAU.....	1
.....AUUAAUUUCAGCAGCCAU.....	2
.....AUUAAUUUCAGCAGCCAU.....	8
.....AUUAAUUUCAGCAGCCAUUU.....	6
.....AUUAAUUUCAGCAGCCAUUU.....	1
.....UUAUUUCAGCAGCCAUUU.....	3
.....UUAUUUCAGCAGCCAUUU.....	4
.....UUAUUUCAGCAGCCAUUU.....	3
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.....AAUUUCAGCAGCCAUUU.....	1
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.....AAUUUCAGCAGCCAUUUAAU.....	3

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.....UGGCUGCUGAAAAUUAUAUGA.....	2
.....GCUGCUGAAAAUUAUAUGAUA.....	1
.....UAUGUCUGCUAGAAUUAC.....	1
.....UGUCUGCUAGAAUUACC.....	1
.....CAUAUUAAUUUCGGCAACCAUA.....	4
.....AUAUUAAUUUCGGCAACCAU.....	1
.....AUAUUAAUUUCGGCAACCAUA.....	20
.....AUUAAUUUCGGCAACCAUA.....	2

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.....UGGCUGCUGAAAUAUAUGG.....	7
.....UGGCUGCUGAAAUAUAUGG.....	1
.....GGCUGCUGAAAUAUAUGG.....	1
.....GGCUGCUGAAAUAUAUGG.....	6
.....UAUGUCUGCUAGAAUAC.....	1
.....UGUCUGCUAGAAUACC.....	1
.....CUAGAAUUACCAUAUUAUUUUCAGCAGCC.....	1
.....UACCAUAUUAUUUCAG.....	1
.....UACCAUAUUAUUUUCAGC.....	1
.....UACCAUAUUAUUUUCAGCAGC.....	11
.....ACCAUAUUAUUUUCAGCAG.....	1
.....ACCAUAUUAUUUUCAGCAGC.....	1
.....ACCAUAUUAUUUUCAGCAGCC.....	90
.....ACCAUAUUAUUUUCAGCAGCCA.....	6
.....CCAUAUUAUUUUCAGCAGC.....	3
.....CCAUAUUAUUUUCAGCAGCC.....	8
.....CCAUAUUAUUUUCAGCAGCCA.....	65
.....CCAUAUUAUUUUCAGCAGCCAU.....	3
.....CCAUAUUAUUUUCAGCAGCCAUU.....	2
.....CAUAUUAUUUUCAGCAG.....	7
.....CAUAUUAUUUUCAGCAGC.....	6
.....CAUAUUAUUUUCAGCAGCC.....	8
.....CAUAUUAUUUUCAGCAGCCA.....	25
.....CAUAUUAUUUUCAGCAGCCAU.....	213
.....CAUAUUAUUUUCAGCAGCCAU.....	35
.....CAUAUUAUUUUCAGCAGCCAUU.....	6
.....AUUAUUAUUUUCAGCAG.....	1
.....AUUAUUAUUUUCAGCAGCC.....	2
.....AUUAUUAUUUUCAGCAGCCAU.....	3
.....AUUAUUAUUUUCAGCAGCCAU.....	22
.....UAUUAUUUUCAGCAGCCAUU.....	12
.....AUUAUUUUCAGCAGCCAU.....	1
.....AUUAUUUUCAGCAGCCAU.....	2
.....AUUAUUUUCAGCAGCCAUU.....	8
.....AUUAUUUUCAGCAGCCAUUU.....	6
.....AUUAUUUUCAGCAGCCAUUUA.....	1
.....UUAUUUUCAGCAGCCAUU.....	3
.....UUAUUUUCAGCAGCCAUUU.....	4
.....UUAUUUUCAGCAGCCAUUUA.....	3
.....AAUUUCAGCAGCCAUU.....	4
.....AAUUUCAGCAGCCAUUUA.....	1
.....AAUUUCAGCAGCCAUUUAA.....	1
.....AAUUUCAGCAGCCAUUUAAU.....	3

Figure S4. Total reads matching the pre-miRNAs. The figure shows all reads, 15-35 nt, with perfect match from the three different libraries derived from the pre-miRNAs.

Supplementary Figure S5

[illegible]

1
1
1
4
2
1
1
2
8
1
1
1

11

1
1
1
1
1
1
1
1
1

>ddi-mir-7131b miRNAstart=82 miRNAstarStart=24
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>ddi-mir-7131c miRNAstart=19 miRNAstarStart=66
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.....UGGCUGCUGAAAAUAAUAUGG..... 1
.....UACCAUAUUAAUUUCAGCAGC..... 1
.....CCAUAUUAAUUUCAGCAGCCA..... 1
.....CAUAUUAAUUUCAGCAGCCAUAU..... 1
.....UUAAUUUCAGCAGCCAUAUU..... 1
.....UUAAUUUCAGCAGCCAUAUUA..... 1
.....AAUUUCAGCAGCCAUAUUA..... 1
.....AAUUUCAGCAGCCAUAUUAAU..... 1

Figure S5. Reads from growing cells matching the pre-miRNAs. The figure shows all reads, 15-35 nt, with perfect match from growing (d0h) cells.

Supplementary Figure S6

[illegible]

$$\begin{matrix} 2 \\ 1 \\ 1 \\ 2 \end{matrix}$$

1
4
1
1
3
12
3

1
1
4
45
11
19
1
3
1
10
7
22
2
1
2
6
6
2
2
3
4
5
2
3
1
1

5
1
1
2
1
1
19

>ddi-mir-7131d miRNAstart=19
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.....CCACAUUAAUUUCAGCAGCCA..... 1
.....CACAUUAAUUUCAGCAGCCA..... 1
.....AUUAAUUUCAGCAGCCAUAU..... 2
.....AAUUUCAGCAGCCAUAU..... 1

>ddi-mir-7131b miRNAstart=82 miRNAstarStart=24
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.....UGGCUGCUGAAAUAUAUGA..... 1
.....UGUCUGCUAGAAUUACC..... 1
.....CAUAUUAAUUUCGGCAACCAUA..... 2
.....AUUAUUAAUUUCGGCAACCAU..... 1
.....AUUAUUAAUUUCGGCAACCAUA..... 10
.....AUUAUUUCGGCAACCAUA..... 2

>ddi-mir-7131c miRNAstart=19 miRNAstarStart=66
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.....UGGCUGCUGAAAUAUAUGG..... 5
.....GGCUGCUGAAAUAUAUGG..... 1
.....GGCUGCUGAAAUAUAUGGC..... 2
.....UGUCUGCUAGAAUUACC..... 1
.....UACCAUAUUAUUUCAGC..... 1
.....UACCAUAUUAUUUCAGCAGC..... 3
.....ACCAUAUUAUUUCAGCAGCC..... 1
.....CCAUAUUAUUUCAGCAGC..... 1
.....CCAUAUUAUUUCAGCAGCC..... 1
.....CCAUAUUAUUUCAGCAGCCA..... 20
.....CCAUAUUAUUUCAGCAGCCAU..... 2
.....CCAUAUUAUUUCAGCAGCCAUAU..... 2
.....CAUAUUAUUUCAGCAG..... 5
.....CAUAUUAUUUCAGCAGC..... 2
.....CAUAUUAUUUCAGCAGCC..... 5
.....CAUAUUAUUUCAGCAGCCA..... 17
.....CAUAUUAUUUCAGCAGCCAU..... 152
.....CAUAUUAUUUCAGCAGCCAU..... 30
.....CAUAUUAUUUCAGCAGCCAUAU..... 4
.....AUUAUUAAUUUCAGCAGCCAU..... 1
.....AUUAUUAAUUUCAGCAGCCAU..... 8
.....UAUUAUUUCAGCAGCCAUAU..... 7
.....AUUAUUUCAGCAGCCAUAU..... 2
.....AAUUUCAGCAGCCAUAU..... 1

Figure S6. Reads from 16h developed cells matching the pre-miRNAs. The figure shows all reads, 15-35 nt, with perfect match from cells developed for 16h (d16h).

Supplementaty Figure S7

>ddi-mir-1176 miRNAstart=21 miRNAstarStart=83		
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.....CCAAUUUUUAUCAAGGAA.....	4	
.....CCAAUUUUUAUCAAGGAAA.....	14	
.....CCAAUUUUUAUCAAGGAAAG.....	9	
.....CCAAUUUUUAUCAAGGAAAGC.....	29	
>ddi-mir-1177 miRNAstart=19 miRNAstarStart=131		
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.....CCAGUUAGGGUUUAUGGU.....	2	
.....CCAGUUAGGGUUUAUGGUU.....	3	
.....CCAGUUAGGGUUUAUGGUUC.....	24	
.....ACCGUUGAGCCCUUCUGA.....	4	
.....ACCGUUGAGCCCUUCUGAU.....	29	
.....ACCGUUGAGCCCUUCUGAUU.....	60	
.....ACCGUUGAGCCCUUCUGAUUU.....	1	
.....CCGUUGAGCCCUUCUGAUU.....	1	
>ddi-mir-7095 miRNAstart=128 miRNAstarStart=22		
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.....UUCCAUUUUUAACAGAU.....	2	
.....UUCCAUUUUUAACAGAUAC.....	4	
.....UUCCAUUUUUAACAGAUACA.....	13	
.....UUCCAUUUUUAACAGAUACAA.....	6	
.....UUCCAUUUUUAACAGAUACAAAA.....	1	
.....GGAUCUGUUAAAAUUGGAU.....	1	
.....GGAUCUGUUAAAAUUGGAUA.....	10	
.....GGAUCUGUUAAAAUUGGAUAA.....	56	
.....GGAUCUGUUAAAAUUGGAUAAA.....	3	
>ddi-mir-7096 miRNAstart=85 miRNAstarStart=19		
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.....AAUCUUAUUUGUUCACAGA.....	1	
.....AAUCUUAUUUGUUCACAGAC.....	1	
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.....UUCUCUACUAGUGCCGAAAU.....	1	
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.....CUCUCAAUUUUAACCAACAA.....	1	
.....CUCUCAAUUUUAACCAACAAC.....	8	
>ddi-mir-7099 miRNAstart=88 miRNAstarStart=21		
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.....UUAAUAAUGAAACGGUAA.....	1	
.....UUAAUAAUGAAACGGUAAUGAU.....	5	
.....UUAAUAAUGAAACGGUAAUGAUA.....	1	

1

AAGAUAAAGAGUUCAACAAUC
 10
 1
 1
 1
 2

UCAUUAUCAUAUAAUCAGCUUUGGAUA
 4
 1

2
3
2
8
20
1
1
1

[illegible]

1
1
2
1
1
1
1
3
10

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.....CCACAUUAAUUUCAGCAGC.....	1
.....CCACAUUAAUUUCAGCAGCC.....	6
.....CCACAUUAAUUUCAGCAGCCA.....	14
.....CCACAUUAAUUUCAGCAGCCAU.....	3
.....CACAUUAAUUUCAGCAGCCAU.....	1
.....ACAUUAAUUUCAGCAGCCAU.....	1
.....ACAUUAAUUUCAGCAGCCAUUA.....	3
.....ACAUUAAUUUCAGCAGCCAUAU.....	3
.....CAUUAAUUUCAGCAGCCAUUA.....	1
.....CAUUAAUUUCAGCAGCCAUAU.....	3
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.....AUUAAUUUCAGCAGCCAUUA.....	2
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.....UUAUUUCAGCAGCCAUUU.....	3
.....UUAUUUCAGCAGCCAUUUUA.....	2
.....AAUUUCAGCAGCCAUAU.....	3
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.....GCUGCUGAAAAUUAUAUGAUA.....	1
.....UAUGUCUGCUAGAAUUAC.....	1
.....CAUAUUAAUUUCGGCAACCAUA.....	2
.....AUAUUAAUUUCGGCAACCAUA.....	10

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.....UGGCUGCUGAAAAUAAUAUGGC..... 1
.....GGCUGCUGAAAAUAAUAUGGC..... 4
.....UAUGUCUGCUAGAAUUAC..... 1
.....CUAGAAUUACCAUAUUAUUUCAGCAGCC..... 1
.....UACCAUAUUAUUUCAG..... 1
.....UACCAUAUUAUUUCAGCAGC..... 7
.....ACCAUAUUAUUUCAGCAG..... 1
.....ACCAUAUUAUUUCAGCAGC..... 1
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.....ACCAUAUUAUUUCAGCAGCCA..... 6
.....CCAUAUUAUUUCAGCAGC..... 2
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.....CCAUAUUAUUUCAGCAGCCA..... 44
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.....CAUAUUAUUUCAGCAG..... 2
.....CAUAUUAUUUCAGCAGC..... 4
.....CAUAUUAUUUCAGCAGCC..... 3
.....CAUAUUAUUUCAGCAGCCA..... 8
.....CAUAUUAUUUCAGCAGCCAU..... 61
.....CAUAUUAUUUCAGCAGCCAU..... 5
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.....AUAUUAUUUCAGCAGCC..... 2
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.....AUAUUAUUUCAGCAGCCAU..... 14
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.....AUUAAUUUCAGCAGCCAUUUA..... 1
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.....UUAUUUCAGCAGCCAUUU..... 3
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.....AAUUUCAGCAGCCAUU..... 3
.....AAUUUCAGCAGCCAUUUAA..... 1
.....AAUUUCAGCAGCCAUUUAAU..... 2

Figure S7. Reads from 24h developed cells matching the pre-miRNAs. The figure shows all reads, 15-35 nt, with perfect match from cells developed for 24h (d24h).