Supplementary Data 1. *Nematostella* miRNAs. miRNA (red), miRNA* (blue) and variant miRNA-miRNA* pairs (green) are highlighted. All sequences mapping to locus are included, together with predicted fold. Scaffold and coordinate values reference the *Nematostella* genome ¹³. The location of each miRNA with respect to predicted genes (intergenic or overlapping) is indicated, together with the gene identifier for any overlapping genes. Pairs of miRNAs located close (<50 kb) to each other and deriving from the same strand are noted as potential miRNA clusters. The three columns to the right of each sequence are: (i) length of sequence, (ii) number of reads for that sequence, and (iii) number of matches to the genome.

AUCGACCCGUAGAUCCGAACUUGUGGAGUUUCACCACAGGCUCGUUUCUACGGAUCAAAA((((((((((((((((((((((((((((((
		miDMA. OF				
Total cloned: 4973 shared 5' end with miRNA: 428 Scaffold: scaffold 82 Coordinates: 122023-122084	Shared 3' end with	Location:	T			
	Strand: Plus	LOCALION:	Interge.	HIC		
miRNA ACCCGUAGAUCCGAACUUGUGG		22	3583	-		
	• •	22	3583	1		
Shared 5' Terminus			_			
ACCCGUAGAUCCGAA		15	5	4		
ACCCGUAGAUCCGAAC		16	11	4		
ACCCGUAGAUCCGAACU		17	6	1		
ACCCGUAGAUCCGAACUU		18	6	1		
ACCCGUAGAUCCGAACUUG		19	20	1		
ACCCGUAGAUCCGAACUUGU		20	64	1		
ACCCGUAGAUCCGAACUUGUG		21	82	1		
ACCCGUAGAUCCGAACUUGUGGA		23	234	1		
Shared 3' Terminus		23	~ > -	_		
GUAGAUCCGAACUUGUGG		1.8	1	1		
		19	1	1		
CGUAGAUCCGAACUUGUGG						
CCGUAGAUCCGAACUUGUGG		20	6	1		
CCCGUAGAUCCGAACUUGUGG		21	17	1		
Subsequence						
CCCGUAGAUCCGAACUUGU		19	3	1		
Others						
CCCGUAGAUCCGAACUUGUGGA		22	1	1		
		17	3	1		
ACAGGCUCGUUUCUACGG		18	11	1		
ACAGGCUCGUUUCUACGGA		19	93	1		
ACAGGCUCGUUUCUACGGAU		2.0	243	1		
				1		
ACAGGCUCGUUUCUACGGAUC		21	70			
ACAGGCUCGUUUCUACGGAUCA		22	483	1		
		23	1	1		
		24	1	1		
		17	2	1		
		18	3	1		
		19	5	1		
CAGGCUCGUUUCUACGGAUCA		21	5	1		
AGGCUCGUUUCUACGGAUCA		20	12	1		
GCUCGUUUCUACGGAUCA		18	1	1		
GCUCGUUUCUACGGAUCA	• •	10	_	±		
- IT 0000						
miR-2022			a. a			
GAUAAGAUCGCCUGAAAGUCGGGAUAAAUCAACUGUCAAGUGGUUGUCA <mark>UUUGCUAGUU</mark>						
<u> </u>)))))))			
Total cloned: 192 shared 5' end with miRNA: 7 shared 3'						
Scaffold: scaffold_148 Coordinates: 501354-501446	Strand: Plus	Location:	Interge	nic		
miRNA			_			
	GCUUUUGUCCCGC				23	162
Shared 5' Terminus						
	CHIHIGICC				20	2
UUUGCUAGUUC					22	5
					44	2

Shared 3' Terminus	20	1	1
UGCUAGUUGCUUUUGUCCCGC	21	1	1
UUGCUAGUUGCUUUUGUCCCGC	22	2	1
ubsequence thers	22	L	±
CHEIS GGGAUAAAUCAACUGU	16	3	1
GGAUAAAUCAACUGUCAAGU	21	1	1
GGGUAAAUCAACUGUCAAGUG	22	15	1
GGGAUAAAUCAACUGUCAAGUG	22	15	1
miR-2023 AGGUUGCGUGACAUACCUGUGUCUGCCACCUGUAUUUCUAUCACGUCAGAUGAAAGAAGUACAAGUGGUAGGGAAGGGUGUUCGAUUGACAA ((((((((((((((((((((((((((((
	21	20458	1
	15	2	2
	16	15	1
	17	74	1
	18	250	1
	19	2838	1
AAAGAAGUACCAAGUGGUAGG	2.0	4242	1
AAAGAAGUACAAGUGGUAGGA	22	286	1
AAAGAAGUACAAGUGGUAGGGAA.	23	9	1
Phared 3' Terminus	23	,	-
	15	15	1
AGUACAAGUGGUAGGG	16	18	1
	17	105	1
	18	8	1
AGAAGUACAAGUGGUAGGG	19	39	1
	20	248	1
. CGUCAGAUGAAAGAAGUACAAGUGGUAGGG	30	1	1
ubsequence	50	_	-
AAGAAGUACAAGUGG.	15	2	3
AAGAAGUACAAGUGGU	16	1	3
AAGAAGUACAAGUGGUA.	17	3	3
AAGAAGUACAAGUGGUAG	1.8	66	3
AAGAAGUACAAGUGGUAGG	19	52	1
AGAAGUACAAGUGGU	15	52 8	3
			-
AGAAGUACAAGUGGUA	16	6	3
AGAAGUACAAGUGGUAG	17	45	3
AGAAGUACAAGUGGUAGG	18	26	1
	16	4	3
	17	2	1
	15	7	3
	16	20	1
AGUACAAGUGGUAGG	15	7	1
thers			
UCUGCCACCUGUAUUUCUAUC	21	1	1
UCUGCCACCUGUAUUUCUAUCA	22	1	1
CUGCCACCUGUAUUUCUA	18	1	1
CUGCCACCUGUAUUUCUAU	19	1	1
CUGCCACCUGUAUUUCUAUC	20	32	1
CUGCCACCUGUAUUUCUAUCA	21	80	1
UGCCACCUGUAUUUCUAUC	19	1	1
GAAAGAAGUACAAGUGGUAG	20	1	1
AAGAAGUACAAGUGGUAGGGA	21	9	1
AGAAGUACAAGUGGUAGGGA	20	8	1
GAAGUACAAGUGGUAGGAA	20	1	1
R-2024a			
UCAGAAUAUUGGUGGGGCAAAAGGUCACAUUUUGCACAACACCAAUAUUCUGAGG ((((((((((((((((((((((((((((((((((ly part of	a miRNA cl	uster with miR-2024b,c,d
UCAGAAUAUUGGUGCUGGCAAAAGGUCACAUUUUGCACAACACCAAUAUUCUGAGG ((((((((((((((((((((((((((((((((((ly part of	a miRNA cl	uster with miR-2024b,c,d
UCAGAAUAUUGGUGCUGGCCAAAAGGUCACAUUUUGCACAACACCAAUAUUCUGAGG ((((((((((((((((((((((((((((((((((ly part of	a miRNA cl	uster with miR-2024b,c,d

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18
                          14
19
                          15
......UUGCACAACACCAAUAUUCU....
                       2.0
                          215
2.1
                          379
2.3
                          11
Shared 3' Terminus
17
19
                          13
20
21
                          29
......UUUUGCACAACACCAAUAUUCUGA..
                          1
......ugcacaacaccaauauucu....
                       19
.....UGCACAACACCAAUAUUCUG...
                       20
... AGAAUAUUGGUGCUGGG.....
                       17
                          3
                              2
... AGAAUAUUGGUGCUGGGCAA.....
                       2.0
... AGAAUAUUGGUGCUGGGCAAA.....
                       21
... AGAAUAUUGGUGCUGGGCAAAA.....
                       2.2
                          63
2.1
                       2.0
                          1
miR-2024b
CAUCAGGUAGACUUGCUUCAGAAUAUUGGUGCUGGGCAAAAGGUCACAUUUUGCACAAUUUCCAAUAUUCUGAGGCACUUCUGCUGAA
Coordinates: 87406-87493 Strand: Minus
Scaffold: scaffold 126
                          Location: Intergenic; likely part of a miRNA cluster with miR-2024a,c,d,e
miRNA
Shared 5' Terminus
1
20
......UUGCACAAUUCCAAUAUUCUG.....
                                 21
                                    18
                                        1
Shared 3' Terminus
2.1
                                    1
                                        1
CAUCAGGUAGACUUGCU.
                                 17
                                        6
CAUCAGGUAGACUUGCUUC.....
                                 19
                                    63
.AUCAGGUAGACUUGCUUC.....
                                 18
... CAGGUAGACUUGCUUC.
                                    13
                                 16
15
                                        8
                                 17
AGAAUAUUGGUGCUGGGCAA
                                 20
......AGAAUAUUGGUGCUGGCAAA......
                                 21
......AGAAUAUUGGUGCUGGGCAAAA......
                                    63
......GAAUAUUGGUGCUGGCAAAA.....
UGCUUCAAAAUAUCGGUGUUGGGUAAAAGGUCACAUUUUACACAGUACCGAUAUUGUGAAGCA
shared 3' end with miRNA: 35
                   Strand: Minus
                          Location: Intergenic; likely part of a miRNA cluster with miR-2024a,b,d,e
Scaffold: scaffold 126
         Coordinates: 87171-87234
miRNA
2.2
                              4252
                                 3
Shared 5' Terminus
15
                                 3
16
17
18
                              45
.....UUACACAGUACCGAUAUUG.....
                          19
                              46
284
.....UUACACAGUACCGAUAUUGUG.....
                              1378
23
                              715
24
Shared 3' Terminus
15
16
.....CAGUACCGAUAUUGUGA....
                          17
.....ACAGUACCGAUAUUGUGA....
                          18
.....ACACAGUACCGAUAUUGUGA....
```

		21	21	3				
Subsequence								
UACACAGUACCGAUAUUGU		19	5	3				
UACACAGUACCGAUAUUGUG		20	5	3				
		18 15	1	7				
Others		15	1	9				
AAAAUAUCGGUGUUGGG		17	1	9				
AAAAUAUCGGUGUUGGGUAA		20	20	8				
AAAAUAUCGGUGUUGGGUAAA		21	55	7				
AAAAUAUCGGUGUUGGGUAAAA		22	165	7				
AAAUAUCGGUGUUGGGUAA		19	1	8				
AAAUAUCGGUGUUGGGUAAAA		21	3	7				
AAUAUCGGUGUUGGGUAAA		19	1	7				
AAUAUCGGUGUUGGGUAAAA		20	1	7				
AUAUCGGUGUUGGGUAAAA		19 18	1	7 7				
AUCGGUGUGGGUAAA		16	1	7				
AUCGGUGUUGGGUAAAA		17	1	7				
UUUUACACAGUACCGAUAUUG		21	1	3				
		22	1	3				
		22	19	3				
miR-2024d								
AAAGAGCAGGUAGACUUGCUUCAGAAUAUUGGUACUGGGCAAAAGGUCACGUUUUGCACAUC	CACCAAUGUUCUGAGGCA	CANCAGCAG	AAGGAACUA	GAAAUUACAA	GA			
((((((((((((((((((((((((((((((((((((
	nared 3' end with n rand: Minus		. Interce	sia. likola	part of a miRN.	A aluator wit	h min 2024a	h a o
miRNA COORDINATES: 04451-04501 St	.ranu: Minus	LOCALION	: Incerger	iic; likely	part or a mirkin	A CIUSCEI WIL	II IIIIK-2024a	, D, C, e
	ACCAAUGUIICUGA					22	2865	2
Shared 5' Terminus								
						15	4	2
						16	1	2
						17	11	2
						18	104	2
						19	100	2
						20 21	690 347	2
UUGCACAUC						23	9	2
Shared 3' Terminus	ENCCHAUGUUCUUNG				• •	23	,	2
	CACCAAUGUUCUGA					21	3	2
	CACCAAUGUUCUGA					20	1	2
Subsequence								
						17	3	2
						19	6	2
Others	CACCAAUGUUCUG				• •	20	2	2
GAGCAGGUAGACUUGCUUC						19	1	1
AGCAGGUAGACUUGCUUC						18	1	1
GCAGGUAGACUUGCUUC						17	1	1
CAGGUAGACUUGCUUC						16	13	8
AGGUAGACUUGCUUC						15	1	8
AGAAUAUUGGUACUGG						16	1	2
AGAAUAUUGGUACUGGG						17	1	2
AGAAUAUUGGUACUGGGCAA						20	1	2
AGAAUAUUGGUACUGGGCAAA						21	6	2
AGAAUAUUGGUACUGGGCAAAAAAUAUUGGUACUGGGCAA						22 18	115 1	2
AAUAUUGGUACUGGGCAAA						19	1	2
						21	1	2
						21	1	2
						22	1	2
						16	1	8
		UG	AAGGAACUA	GAAAUUAC		20	1	5
miR-2024e	HIGHAN NACH COLUMNICAN	2 2 1 1 1 1 2						
AGUGCUACUGCUUCAAAAUAUCGGUGUUGGGUAAAAGGUCACAUUUUCAACAGUACCGAUAU(((.(((((((((((((((((((((((((((((JUGUGAAGCACGUUUGCA	AAUUAA						
	.							
	rand: Minus		: Interger	nic: likelv	part of a miRN.	A cluster wit	h miR-2024a	.b.c.d
miRNA				.,				, ,, _, a
	JUGUGA			22	4711 1			

Shared 5' Terminus					
	15	1	1		
	16	3	1		
	17	2	1		
UUCAACAGUACCGAUAUU	18	43	ī		
UUCAACAGUACCGAUAUUG	19	58	ī		
UUCAACAGUACCGAUAUUGU	20	205	i		
UUCAACAGUACCGAUAUUGUG.	21	418			
			1		
	23	494	1		
Shared 3' Terminus					
	15	2	9		
AGUACCGAUAUUGUGA	16	1	9		
	17	1	9		
	18	4	8		
	19	12	1		
	20	6	1		
UCAACAGUACCGAUAUUGUGA	21	11	1		
Subsequence					
UCAACAGUACCGAUAUUG	1.8	1	1		
UCAACAGUACCGAUAUUGU	19	3	1		
UCAACAGUACCGAUAUUGUG.					
	20	6	1		
	17	1	1		
	18	3	1		
	15	1	9		
Others					
AAAAUAUCGGUGUGGG	17	1	9		
AAAAUAUCGGUGUUGGGUAA	20	20	8		
	21	55	7		
. AAAAUAUCGGUGUGGGUAAAA	22	165	7		
. AAAUAUCGGUGUGGGUAA	19	1	8		
AAAUAUCGGUGUUGGGUAAAA	21	3	7		
AAUAUCGGUGUUGGGUAAA	19	í	7		
AAUAUCGGUGUUGGGUAAAA	20	1	7		
AUAUCGGUGUUGGGUAAAA		1	7		
	19				
	18	3	7		
UAUCGGUGUUGGGUAAAA	18 16	3 1	7 7		
UAUCGGUGUUGGGUAAAA . AUCGGUGUUGGGUAAA . AUCGGUGUUGGGUAAAA.	18 16 17	3 1 1	7 7 7		
UAUCGGUGUUGGGUAAAAUCGGUGUUGGGUAAA .AUCGGUGUUGGGUAAAUCAACAGUACCGAUAUUGUGAA.	18 16 17 22	3 1 1 6	7 7 7 1		
UAUCGGUGUUGGGUAAAA . AUCGGUGUUGGGUAAA . AUCGGUGUUGGGUAAAA.	18 16 17	3 1 1	7 7 7		
UAUCGGUGUUGGGUAAAA .AUCGGUGUUGGGUAAA .AUCGGUGUUGGGUAAAA .UCAACAGUACCGAUAUUGUGAA .AACAGUACCGAUAUUGUGAA.	18 16 17 22	3 1 1 6	7 7 7 1		
UAUCGGUGUUGGGUAAAAUCGGUGUUGGGUAAA .AUCGGUGUUGGGUAAAUCAACAGUACCGAUAUUGUGAAAACAGUACCGAUAUUGUGAA. miR-2024f	18 16 17 22	3 1 1 6	7 7 7 1		
UAUCGGUGUUGGGUAAAAAUCGGUGUUGGGUAAAAAUCGGUGUUGGGUAAAAUCAACAGUACCGAUAUUGUGAAAACAGUACCGAUAUUGUGAAAACAGUACCGAUAUUGUGAAMACAGUACCGAUAUUUGAA miR-2024f ACAUCAGGUAGACUUCGUGAGAGUAUUGGCGCUGGGCAAAAGGUCACAUUUUGCACAUUAUCCAAUAUUCUGA	18 16 17 22	3 1 1 6	7 7 7 1		
UAUCGGUGUUGGGUAAAAUCGGUGUUGGGUAAA .AUCGGUGUUGGGUAAAUCAACAGUACCGAUAUUGUGAAAACAGUACCGAUAUUGUGAA. miR-2024f	18 16 17 22	3 1 1 6	7 7 7 1		
UAUCGGUGUUGGGUAAAA	18 16 17 22 20	3 1 1 6 2	7 7 7 1 1		
UAUCGGUGUUGGGUAAAA	18 16 17 22 20	3 1 1 6 2	7 7 7 1 1	uster with mi	IR-2024g
UAUCGGUGUUGGGUAAAA	18 16 17 22 20	3 1 1 6 2	7 7 7 1 1	uster with mi	iR-2024g
UAUCGGUGUUGGGUAAA	18 16 17 22 20	3 1 1 6 2	7 7 1 1 1		iR-2024g
UAUCGGUGUUGGGUAAAA	18 16 17 22 20	3 1 1 6 2	7 7 7 1 1	uster with mi	LR-2024g
UCAACAGUACCGAUAUUGUGAAA	18 16 17 22 20	3 1 1 6 2	7 7 7 1 1 1 1 a mirNA c. 3839	3	lR-2024g
UAUCGGUGUUGGGUAAAA	18 16 17 22 20	3 1 1 6 2 2 ly part of 22 17	7 7 7 1 1 1 1 a miRNA c: 3839	3	lR-2024g
ULACGGUGUUGGGUAAAA	18 16 17 22 20	3 1 1 6 2 1y part of 22 17 18	7 7 7 1 1 1 1 a miRNA C: 3839 1 6	3 3 3	iR-2024g
ULAUCGGUGUUGGGUAAA	18 16 17 22 20	3 1 1 6 2 2 1y part of 22 17 18 19	7 7 7 1 1 1 2 3839 1 6 4	3 3 3 3	iR-2024g
ULAUCGGUGUUGGGUAAAA	18 16 17 22 20	3 1 1 6 2 2 ly part of 22 17 18 19 20	7 7 7 7 1 1 1 1 2 3 3 3 3 9 1 6 4 1 3 5	3 3 3 3	i.R-2024g
ULAUCGGUGUUGGGUAAA	18 16 17 22 20	3 1 1 6 2 2 1y part of 22 17 18 19 20 21	7 7 7 7 1 1 1 1 3 3 3 3 9 1 6 4 1 3 5 1 8 7	3 3 3 3 3	iR-2024g
ULAUCGGUGUUGGGUAAAAAUCGGUGUUGGGUAAAAAUCGGUGUUGGGUAAAAUCAACAGUACCGAUAUUGGAAAUCGGUGUUGGGUAAAAAACAGUACCGAUAUUGGAAAACAGUACCGAUAUUGUGAA miR-2024f ACAUCAGGUAGACUUGCUUCAGAGUAUUGGCGCUGGGCAAAAGGUCACAUUUUGCACAUUAUCCAAUAUUCUGAGGCACUUCUGCUGAAGGAACU((((((((((((((((((((((((((((((((((18 16 17 22 20	3 1 1 6 2 2 ly part of 22 17 18 19 20	7 7 7 7 1 1 1 1 2 3 3 3 3 9 1 6 4 1 3 5	3 3 3 3	LR-2024g
ULAUCGGUGUUGGGUAAAA	18 16 17 22 20	3 1 1 6 2 2 1y part of 22 17 18 19 20 21 23	7 7 7 7 1 1 1 1 2 3 3 3 3 9 1 6 4 1 3 5 1 8 7 1 0	3 3 3 3 3 3	iR-2024g
ULAUCGGUGUUGGGUAAAAAUCGGUGUUGGGUAAAAAUCGGUGUUGGGUAAAAAUCGGUGUUGGGUAAAAAUCGGUGUUGGGUAAAAAUCGGUGUUGGGUAAAAAUCGGUGUUGGGUAAAAACAGUACCGAUAUUGGAAACAGUACCGAUAUUUGGAAACAGUACCGAUAUUUGGAGGCAUUCUGCUGAAGGAACU((((((((((((((((((((((((((((((((((18 16 17 22 20	3 1 1 6 2 2 17 18 19 20 21 23	7 7 7 7 1 1 1 1 3 3 3 3 9 1 6 4 13 5 18 7 1 0 4	3 3 3 3 3 3 3	lR-2024g
ULAUCGGUGUUGGGUAAAA	18 16 17 22 20	3 1 1 6 2 2 1y part of 22 17 18 19 20 21 23	7 7 7 7 1 1 1 1 2 3 3 3 3 9 1 6 4 1 3 5 1 8 7 1 0	3 3 3 3 3 3	i.R-2024g
ULAUCGGUGUUGGGUAAA	18 16 17 22 20	3 1 1 6 2 2 17 18 19 20 21 23	7 7 7 7 1 1 1 1 3 3 3 3 9 1 6 4 13 5 18 7 1 0 4	3 3 3 3 3 3 3	iR-2024g
ULAUCGGUGUUGGGUAAAAAUCGGUGUUGGGUAAAAAUCGGUGUUGGGUAAAAAUCGGUGUUGGGUAAAAAUCGGUGUUGGGUAAAAAUCGGUGUUGGGUAAAAAUCGGUGUUGGGUAAAAACAGUACCGAUAUUGGAAACAGUACCGAUAUUUGGAAACAGUACCGAUAUUUGGAGGCAUUCUGCUGAAGGAACU((((((((((((((((((((((((((((((((((18 16 17 22 20	3 1 1 6 2 2 1y part of 22 17 18 19 20 21 23	7 7 7 7 1 1 1 1 2 3 3 3 3 9 1 6 4 1 3 5 1 8 7 1 0 4 1 1	3 3 3 3 3 3 3 3 3	i.R-2024g
ULACCGUGUUGGGUAAAAAUCGGUGUUGGGUAAAAAUCGGUGUUGGGUAAAA	18 16 17 22 20	3 1 1 6 2 2 17 18 19 20 21 23 16 18 19	7 7 7 7 1 1 1 1 3 3 3 3 9 1 6 4 1 3 5 1 8 7 1 0 4 1 2 2	3 3 3 3 3 3 3 3	iR-2024g
ULAUCGGUGUUGGGUAAA	18 16 17 22 20	3 1 1 6 2 2 17 18 19 20 21 23 16 18 19	7 7 7 7 1 1 1 1 3 3 3 3 9 1 6 4 1 3 5 1 8 7 1 0 4 1 2 2	3 3 3 3 3 3 3 3	LR-2024g
UCAACAGUACCAAUAUCCAAUAUUCUGA ADCGGUGUUGGGUAAA	18 16 17 22 20	3 1 1 6 2 2 17 18 19 20 21 23 16 18 19 21	7 7 7 7 1 1 1 1 1 2 7 7 1 1 1 1 1 1 1 1	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	iR-2024g
UCAACAGUACCGAUAUUGGGAAAA	18 16 17 22 20	3 1 1 6 2 2 1y part of 22 17 18 19 20 21 23 16 18 19 21	7 7 7 7 1 1 1 1 1 2 7 7 1 1 1 1 1 1 1 1	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	LR-2024g
UCAACAGUACCGAUAUUCCGAACGUUCGCUGGCAAAAGGUCACAUUUUGCACAUUAUCGAGGCACUUCUGCUGAAGGAACU miR-2024f ACAUCAGGUAGGUUGGGUAGGCCUGGCCAAAAGGUCACAUUUUGCACAUUAUCCAAUAUUCUGAGGCACUUCUGCUGAAGGAACU(((.((((((((((((((((((((((((((((((18 16 17 22 20	3 1 1 6 2 2 17 18 19 20 21 23 16 18 19 21 20	7 7 7 7 1 1 1 1 3 3 3 3 9 1 6 4 1 3 5 1 8 7 1 0 4 1 2 7 6 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	iR-2024g
UCAACAGUACCGAUAUUGGGAAAA	18 16 17 22 20	3 1 1 6 2 2 17 18 19 20 21 23 16 18 19 21 23 21 23	7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	lR-2024g
UCAACAGUACCGAUAUUGGGAAAA	18 16 17 22 20	3 1 1 6 2 2 17 18 19 20 21 23 16 18 19 21 23 21 23	7 7 7 7 1 1 1 1 3 3 3 3 9 1 6 4 1 3 5 1 8 7 1 0 4 1 2 2 7 6 3 1 6 3 1 6 3 1 6 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	iR-2024g
UCAACAGUACCGAUAUUGGGAAAA	18 16 17 22 20	3 1 1 6 2 2 17 18 19 20 21 23 16 18 19 21 20 21 21	7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	iR-2024g
UCAACAGUACCGAUAUUCUGAA AUCGGUGUUGGGUAAA	18 16 17 22 20	3 1 1 6 2 2 17 18 19 20 21 23 16 18 19 21 23 21 20 20 17 19 19 21	7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	IR-2024g
UCAACAGUACCGAUAUUGGGAAAA	18 16 17 22 20	3 1 1 6 2 1y part of 22 17 18 19 20 21 23 16 18 19 21 20 20 17 19 18 16 15	7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	iR-2024g
UCAACAGUACCGAUAUUCUGAAAAAAAAAAAAAAAAAAA	18 16 17 22 20	3 1 1 6 2 2 17 18 19 20 21 23 16 18 19 21 20 21 21 20 21 21 20 21 21 21 20 21 21 21 21 21 21 21 21 21 21 21 21 21	7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	i.R-2024g
UCAACAGUACCGAUAUUGGGAAAA	18 16 17 22 20	3 1 1 6 2 1y part of 22 17 18 19 20 21 23 16 18 19 21 20 20 17 19 18 16 15	7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	iR-2024g

miR-2024q ACCAAUAAGUGCUACUGCUUCAAAAUAUCGGUGUUGGGUAAAAGGUCACCUUUUAACACAGUACCGAUAUUGUGAAGCACGUUUGCAAA Total cloned: 2396 shared 5' end with miRNA: 501 shared 3' end with miRNA: 45 Location: Intergenic; likely part of a miRNA cluster with miR-2024f Scaffold: scaffold 282 Coordinates: 93046-93135 Strand: Minus miRNA 2.2 1570 4 Shared 5' Terminus 17 UAACACAGUACCGAUAUU 18 19 24 20 248 UAACACAGUACCGAUAUUGUGAA 23 141 15AGUACCGAUAUUGUGA..... 16 17ACAGUACCGAUAUUGUGA..... 18ACACAGUACCGAUAUUGUGA..... 2.0 AACACAGUACCGAUAUUGUGA
UUAACACAGUACCGAUAUUGUGA 2.1 2.7 2.3 4 18 AACACAGUACCGAUAUUGUG. 2.0ACACAGUACCGAUAUUGU..... 18 CAGUACCGAUAUUGU 15 1 9 2.0 ..CAAUAAGUGCUACUGCUUC.....UAAGUGCUACUGCUUC....AAGUGCUACUGCUUC..... 15 17AAAAUAUCGGUGUUGGGUAA...... 20 20AAAAUAUCGGUGUUGGGUAAA..... 21 55 AAAAUAUCGGUGUUGGGUAAAA 165 19 2.1 19 AAUAUCGGUGUUGGGUAAAA 2.0 . AUAUCGGUGUUGGGUAAAA 19 UAUCGGUGUUGGGUAAAA 18 AUCGGUGUUGGGUAAA 16 .AUCGGUGUUGGGUAAAA .UUUAACACAGUACCGAUAUUGUG... 17 23 AACAAUUAGGCCACAUACAAAGCUUUCGAUGGCUAGAAAAUCCUUAGUGAUUUUUUUAGCCCGCGGAAGUUGUGUUGCCUGGCCAAUAUUACCAUUshared 3' end with miRNA: 98 Scaffold: scaffold 51 Location: Intergenic 1

MIIAWA			
	22	6210	1
Shared 5' Terminus			
	16	2	1
	17	5	1
	18	9	1
	19	22	1
	20	65	1
	21	225	1
	23	1	1
Shared 3' Terminus			
	17	1	1
	18	1	1
	19	3	1
	20	13	1
UUUUUAGCCCGCGAAGUUGU	21	80	1
Subsequence			

				19 20	2 1	1	
AGCUUUCGAUGGCUAGA AGCUUUCGAUGGCUAGAAAA AGCUUUCGAUGGCUAGAAAAU AGCUUUCGAUGGCUAGAAAAU AGCUUUCGAUGGCUAGAAAAUC				17 20 21 22	1 1 6 31	1 1 1	
				21	2	1	
miR-2026							
ACUUGUGUCCCCCGUUUCAAAUGUCUACUGAUGGAGUUGGUUCCAUCAGUGGGUAUUUGAAGUUGAGAGACGCAG(((((((.(.((((((((((((((((
Total cloned: 3319 shared 5' end with miRNA: 1460 shared Scaffold: scaffold_61 Coordinates: 667308-667387 Strand: Minus miRNA	3' end with Location:		lc				
	• •	21	1680	1			
uuucaaaugucuacugau		18	1	2			
		19 20	3	2			
UUUCAAAUGUCUACUGAUGGAA		22	20 1436	1			
Shared 3' Terminus	• •	22	1430	_			
AUGUCUACUGAUGGA		15	6	1			
AAAUGUCUACUGAUGGA		17	1	1			
CAAAUGUCUACUGAUGGA		18	2	1			
.UCAAAUGUCUACUGAUGGA.		19	3	1			
	• •	20	29	1			
UUCAAAUGUCUACUGAUG		18	2	2			
Others		0.1					
		21 20	13 1	1 1			
CAAAUGUCUACUGAUGGAA		19	4	1			
AAAUGUCUACUGAUGGAA		18	1	i			
AUGUCUACUGAUGGAA		16	1	1			
UGUCUACUGAUGGAA		15	3	2			
		16	1	1			
CCAUCAGUGGGUAUUUGAA		19	1	1			
CCAUCAGUGGGUAUUUGAAG		20	10	1			
		21	38	1			
		22 21	59 2	1			
		16	1	2			
AGUGGUAUUUGAAGU		16	1	ī			
15 AAA							
miR-2027 AAUCCGAGAGCCUUAAGGCUUGCUUGUUGGUAAUUUUGCAUCUGUUGCACAUGCGAUUUUACCAAAAUGCAAUUCUU.	AUGGUUGAGUGA	TICAGGAA					
(((((((((((((((((((((())).))							
Total cloned: 2543 shared 5' end with miRNA: 1047 shared 3' end with							
Scaffold: scaffold_241 Coordinates: 295171-295267 Strand: Plus	Location:	Intergen	C				
miRNA				22	639	1	
Shared 5' Terminus				22	639	Ţ	
AUGCGAUUUUACCAAAA				17	1	1	
AUGCGAUUUUACCAAAAU				18	17	1	
AUGCGAUUUUACCAAAAUG				19	30	1	
				20 21	32 366	1 1	
				21	366 559	1	
AUGCGAUUUUACCAAAAUGCAAUU				24	41	1	
AUGCGAUUUUACCAAAAUGCAAUUC				25	1	ī	
Shared 3' Terminus							
AUUUUACCAAAAUGCAA				17	2	3	
				20	4	1	
UGCGAUUUUACCAAAAUGCAA Subsequence				21	107	1	
				20 19	44 3	1 1	
GGGAUUUUACCAAAAUGCA				19 17	3 1	1	
				15	1	4	
Others							
UGCUUGUUGGUAAUUUU				17	2	1	

UGCUUGUUGGUAAUUUUGC UGCUUGUUGGUAAUUUUGCA UGCUUGUUGGUAAUUUUGCAC UGCUUGUUGGUAAUUUUGCAU UGCUUGUUGGUAAUUUUGCAUC UGCUUGUUGGUAAUUUUGCAUC GCUUGUUGGUAAUUUUGCAUCU GCUUGUUGGUAAUUUUGCAUCU GCUUGUUGGUAAUUUUGCAUCU CUUGUUGGUAAUUUUGCAUCU UCUGUUGCACAUGCGAUUUUACCAAAA CAUGCGAUUUUACCAAAAUCAAAAUCAAAAUCAAAAUCAAAAAUCAAAAAUCAAAAAUCACAAAAUCACAAAAUCACAAAAUCACAAAAUCACAAAAUCAAAAUCAAAAUCAAAAUCAAAAUCACAAAAUCACAAAAUCACAAAAUCACAAAAUCAAAAAUCAAAAAA		18 19 20 21 22 23 20 22 21 27 19 22 23 21	5 11 87 214 11 192 1 1 1 1 1 164 3	
((((((((((((((((((((((((((((((((((nic			
mirna				
UAAUGUUCCUGCUUGUUCCUA	21	496	1	
Shared 5' Terminus				
UAAUGUUCCUGCUUG	15	2	1	
UAAUGUUCCUGCUUGU	16	5	1	
UAAUGUUCCUGCUUGUU	17	21	1	
UAAUGUUCCUGCUUGUUC	18	131	1	
UAAUGUUCCUGCUUGUUCC	19	85	1	
UAAUGUUCCUGCUUGUUCCU	20	260	1	
UAAUGUUCCUGCUUGUUCCUAU	22	288	1	
UAAUGUUCCUGCUUGUUCCUAUA	23	32	1	
UAAUGUUCCUGCUUGUUCCUAUAU	24	10	1	
UAAUGUUCCUGCUUGUUCCUAUAUA.	25	1	1	
Shared 3' Terminus				
AUGUUCCUGCUUGUUCCUA	19	1	1	
AAUGUUCCUGCUUGUUCCUA.	20	3	1	
Subsequence				
AAUGUUCCUGCUUGUUC	17	2	1	
AAUGUUCCUGCUUGUUCCU	19	2	1	
GUUCCUGCUUGUUCCU	16	ī	1	
Others		-	-	
AAUGUUCCUGUUGUUCCUAU	21	1	1	
UAUAUUAGGAACUAGCAGGAGCAUUAAG	30	î	1	
UAUAUUIAGGAACUAGCAGGAGCAUUIAAG UAUAUUIAGGAACUAGCAGGAGCAUUIAAG	28	4	1	
AUAUUAGGAACUAGCAGGAGCAUUAAG AUAUUAGGAACUAGCAGGAGCAUUAAG	27	1	1	
AUAUUAGGAACUAGCAGCAUAAG UAUUAGGAACUAGGAGCAU	22	2		
			1	
UAUUAGGAACUAGCAGGAGCAUUAA	25	2	1	
UAUUAGGAACUAGCAGGAGCAUUAAG	26	10	1	
AUUAGGAACUAGCAGGAGCAUUA	23	1	1	
AUUAGGAACUAGCAGGAGCAUUAA	24	1	1	
.AUUAGGAACUAGCAGGAGCAUUAAG	25	6	1	
UUAGGAACUAGCAGGAGCAUUA	22	3	1	
UUAGGAACUAGCAGGAGCAUUAA	23	2	1	
UUAGGAACUAGCAGGAGCAUUAAG	24	5	1	
	18	1	1	
	20	4	1	
UAGGAACUAGCAGGAGCAUUA	21	16	1	
	22	66	1	
UAGGAACUAGCAGGAGCAUUAAG	23	130	1	
UAGGAACUAGCAGGAGCAUUAAGA	24	3	1	
UAGGAACUAGCAGGAGCAUUAAGAU	25	1	1	
UAGGAACUAGCAGGAGCAUUAAGAUUA	27	1	1	
AGGAACUAGCAGGAGCAUUA	20	1	1	
AGGAACUAGCAGGAGCAUUAA	21	5	1	
AGGAACUAGCAGGAGCAUUAAG	22	25	1	
	17	1	1	
	19	1	1	
	21	9	1	

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miR-2029
Total cloned: 1607 shared 5' end with miRNA: 377
         Coordinates: 157639-157736
                        Location: Intronic; overlapping gene (186367) is encoded on same (plus) strand
Scaffold: scaffold 83
                  Strand: Plus
miRNA
  .....UACGCAAUCCCUAGGUUACCAU.....
                                 2.2
                                    720
                                       1
Shared 5' Terminus
......UACGCAAUCCCUAGG.....
                                 15
UACGCAAUCCCUAGGU .
                                 16
......UACGCAAUCCCUAGGUU.....
                                 17
......UACGCAAUCCCUAGGUUA......
                                 18
                                    13
......UACGCAAUCCCUAGGUUAC.....
                                 19
                                    39
......UACGCAAUCCCUAGGUUACC.....
                                 20
......UACGCAAUCCCUAGGUUACCA......
                                 21
                                    247
......UACGCAAUCCCUAGGUUACCAUGU......
                                 24
28
Shared 3' Terminus
......ACGCAAUCCCUAGGUUACCAU.....
                                 21
                                    6
                                       1
Subsequence
..........ACGCAAUCCCUAGGUUAC......
                                 18
                                    1
                                       1
.....ACGCAAUCCCUAGGUUACCA.....
                                 2.0
                                       1
AUACGCAAUCCCUAGGUUACCA.
CAUGUCAGAUGGUAAACUAUGGAUUG.
                                 2.2
                                 2.6
UGGUAAACUAUGGAUU
                                 16
UGGUAAACUAUGGAUUG
                                 17
......UGGUAAACUAUGGAUUGC......
                                 18
......UGGUAAACUAUGGAUUGCG.....
                                 19
                                    34
......UGGUAAACUAUGGAUUGCGC.....
                                 20
                                    16
......UGGUAAACUAUGGAUUGCGCU.....
                                 21
                                    31
......UGGUAAACUAUGGAUUGCGCUU.....
                                 22
                                    27
......UGGUAAACUAUGGAUUGCGCUUC.....
                                 23
                                    11
......UGGUAAACUAUGGAUUGCGCUUCU.....
                                 24
                                    11
......GGUAAACUAUGGAUU........
                                 15
16
......GGUAAACUAUGGAUUGC......
                                 17
GGUAAACUAUGGAUUGCG
                                 18
                                    1
......GGUAAACUAUGGAUUGCGC.....
                                 19
GGUAAACUAUGGAUUGCGCU.
                                 2.0
GGUAAACUAUGGAUUGCGCUU.
                                 21
GGUAAACUAUGGAUUGCGCUUC
                                 22
                                    2.1
GGUAAACUAUGGAUUGCGCUUCU
                                 23
GUAAACUAUGGAUUGC
                                 16
                                 17
18
19
                                    39
20
                                    38
21
                                    29
22
                                    84
19
20
......UAAACUAUGGAUUGCGCUUCU.....
                                 21
                                    83
18
19
2.0
                                    12
CUAUGGAUUGCGCUU
                                 15
                                    1
UAUGGAUUGCGCUUCU
ACACCCACAGUAUGGCCGUAUAGCAUAACAUUGUAAGAAGAUUGUAAGAACCUCUUUUACAUUGUUGUGCUGUACGGAUAUGCUGAAUAGU
Total cloned: 1349 shared 5' end with miRNA: 317
                  shared 3' end with miRNA: 22
Scaffold: scaffold 507
        Coordinates: 85571-85660
                  Strand: Minus
                        Location: Intergenic
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999

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124

177

1

17

18

19

2.0

......UAGCAUAACAUUGUAAG......

......UAGCAUAACAUUGUAAGAG.....

		23	1	1			
UAGCAUAACAUUGUAAGAGAUUGU		24	1	1			
UAGCAUAACAUUGUAAGAGAUUGUAAG		27	1				
				1			
UAGCAUAACAUUGUAAGAGAUUGUAAGAA		29	1	1			
Shared 3' Terminus							
ACAUUGUAAGAGAUU		15	2	1			
AUAACAUUGUAAGAGAUU		18	1	1			
CAUAACAUUGUAAGAGAUU		19	1	ī			
		20	2	1			
AGCAUAACAUUGUAAGAGAUU		21	16	1			
Subsequence							
		20	5	1			
Others		20	-	-			
		0.0		-			
		20	1	1			
CCUCUUUACAUUGUUGUGCUGUA		23	5	1			
mi R - 2031							
AGACCACCUAAAAUACGGCACUCUAUUUAUGGUACUUUUAAGUACCAUAAAUAGAGUGCCGUAUUUUAGGUGGUUAA							
.((((((((((((((((((((((((((((((((((((((
Total cloned: 785 shared 5' end with miRNA: 253 shared 3' end with miRNA: 30							
Scaffold: scaffold 48 Coordinates: 869416-869493 Strand: Plus Location:	Intronic;	overlappi	ng gene	(18) i	s encoded on	same (plus) stra	and
mi RNA			5 5			· ·	
UACGGCACUCUAUUUAUGGUACU	23	232	2				
	23	232	2				
Shared 5' Terminus							
UACGGCACUCUAUUUAUGG	19	2	2				
UACGGCACUCUAUUUAUGGU	20	42	2				
UACGGCACUCUAUUUAUGGUA	21	106	2				
UACGGCACUCUAUUUAUGGUAC	22	102	2				
		1					
	25	1	1				
Shared 3' Terminus							
CGGCACUCUAUUUAUGGUACU	21	3	2				
ACGGCACUCUAUUUAUGGUACU	22	27	2				
Subsequence							
	19	2	2				
ACGGCACOCOAUUUAGGO							
ACGGCACUCUAUUUAUGGUA	20	24	2				
ACGGCACUCUAUUUAUGGUAC	20 21	24 14	2				
ACGGCACUCUAUUUAUGGUA. ACGGCACUCUAUUUAUGGUAC. Others	20						
ACGGCACUCUAUUUAUGGUACOthers	21		2				
Others AUACGGCACUCUAUUUAUGGUAC	21	14	2				
ACGGCACUCUAUUUAUGGUAC. OthersAUACGGCACUCUAUUUAUGGU	21 21 19	14 1 37	2 2 2				
ACGGCACUCUAUUUAUGGUAC. OthersAUACGGCACUCUAUUUAUGGU	21 21 19 20	14 1 37 11	2 2 2 2				
ACGCACUCUAUUUAUGGUAC. Others	21 21 19 20 21	14 1 37 11 12	2 2 2 2 2				
ACGGCACUCUAUUUAUGGUAC. OthersAUACGGCACUCUAUUUAUGGU	21 21 19 20	14 1 37 11	2 2 2 2				
ACGCACUCUAUUUAUGGUAC. Others	21 21 19 20 21	14 1 37 11 12	2 2 2 2 2				
ACGGCACUCUAUUUAUGGUAC Others AUACGGCACUCUAUUUAUGGU. UACCAUAAAUAGAGUGCCG. UACCAUAAAUAGAGUGCCGU. UACCAUAAAUAGAGUGCCGUAU. UACCAUAAAUAGAGUGCCGUAU. UACCAUAAAUAGAGUGCCGUAUU. UACCAUAAAUAGAGUGCCGUAUU.	21 21 19 20 21 22 23	14 1 37 11 12 110 9	2 2 2 2 2 2 2 2 2				
ACGGCACUCUAUUUAUGGUAC Others AUACGGCACUCUAUUUAUGGU UACCAUAAAUAGAGUGCCG. UACCAUAAAUAGAGUGCCGUA UACCAUAAAUAGAGUGCCGUA UACCAUAAAUAGAGUGCCGUAU UACCAUAAAUAGAGUGCCGUAU UACCAUAAAUAGAGUGCCGUAUU UACCAUAAAUAGAGUGCCGUAUUU	21 21 19 20 21 22 22 23 24	14 1 37 11 12 110 9	2 2 2 2 2 2 2 2 2				
ACGGCACUCUAUUUAUGGUAC Others AUACGGCACUCUAUUUAUGGU UACCAUAAAUAGAGUGCCG UACCAUAAAUAGAGUGCCGU UACCAUAAAUAGAGUGCCGUA UACCAUAAAUAGAGUGCCGUAU UACCAUAAAUAGAGUGCCGUAU UACCAUAAAUAGAGUGCCGUAUU UACCAUAAAUAGAGUGCCGUAUUU UACCAUAAAUAGAGUGCCGUAUUUU UACCAUAAAUAGAGCCGUAUUUUU	21 21 19 20 21 22 22 23 24 25	14 1 37 11 12 110 9	2 2 2 2 2 2 2 2 2 2 2 2				
ACGGCACUCUAUUUAUGGUAC Others AUACGGCACUCUAUUUAUGGU UACCAUAAAUAGAGUGCCG UACCAUAAAUAGAGUGCCGU UACCAUAAAUAGAGUGCCGUAU UACCAUAAAUAGAGUGCCGUAU UACCAUAAAUAGAGUGCCGUAUU UACCAUAAAUAGAGUGCCGUAUUU UACCAUAAAUAGAGUGCCGUAUUU ACCAUAAAUAGAGUGCCGUAUUUU AACCAUAAAUAGAGUGCCGUAUUUU AACCAUAAAUAGAGUGCCGUAUUUU AACCAUAAAUAGAGUGCCGUAUUUU AACCAUAAAUAGAGUGCCGUAUUUU	21 19 20 21 22 23 24 25 19	1 37 11 12 110 9 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
ACGGCACUCUAUUUAUGGUAC Others AUACGGCACUCUAUUUAUGGU. UACCAUAAAUAGAGUGCCGU. UACCAUAAAUAGAGUGCCGUAU. UACCAUAAAUAGAGUGCCGUAU. UACCAUAAAUAGAGUGCCGUAUU. UACCAUAAAUAGAGUGCCGUAUUU. UACCAUAAAUAGAGUGCCGUAUUU. UACCAUAAAUAGAGUGCCGUAUUU. ACCAUAAAUAGAGUGCCGUAUUU. AACCAUAAAUAGAGUGCCGUAUUUU. AACCAUAAAUAGAGUGCCGUAUUUU. AACCAUAAAUAGAGUGCCGUAUUUU.	21 19 20 21 22 23 24 25 19 20	1 37 11 12 110 9 1 1 4 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
ACGGCACUCUAUUUAUGGUAC Others AUACGGCACUCUAUUUAUGGU UACCAUAAAUAGAGUGCCG UACCAUAAAUAGAGUGCCGU UACCAUAAAUAGAGUGCCGUAU UACCAUAAAUAGAGUGCCGUAU UACCAUAAAUAGAGUGCCGUAUU UACCAUAAAUAGAGUGCCGUAUUU UACCAUAAAUAGAGUGCCGUAUUU ACCAUAAAUAGAGUGCCGUAUUUU AACCAUAAAUAGAGUGCCGUAUUUU AACCAUAAAUAGAGUGCCGUAUUUU AACCAUAAAUAGAGUGCCGUAUUUU AACCAUAAAUAGAGUGCCGUAUUUU	21 19 20 21 22 23 24 25 19	1 37 11 12 110 9 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
ACGGCACUCUAUUUAUGGUAC Others AUACCGCACUCUAUUUAUGGU UACCAUAAAUAGAGUGCCG UACCAUAAAUAGAGUGCCGU UACCAUAAAUAGAGUGCCGUA UACCAUAAAUAGAGUGCCGUAU UACCAUAAAUAGAGUGCCGUAUU UACCAUAAAUAGAGUGCCGUAUU UACCAUAAAUAGAGUGCCGUAUUU UACCAUAAAUAGAGUGCCGUAUUU ACCAUAAAUAGAGUGCCGUAUUUU ACCAUAAAUAGAGUGCCGUAUUUU ACCAUAAAUAGAGUGCCGUA ACCAUAAAUAGAGUGCCGUA	21 21 19 20 21 22 23 24 25 19 20 21	14 1 37 11 12 110 9 1 1 4 4 2 2 2 9	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
ACGGCACUCUAUUUAUGGUAC Others AUACGGCACUCUAUUUAUGGU UACCAUAAAUAGAGUGCCG UACCAUAAAUAGAGUGCCGU UACCAUAAAUAGAGUGCCGUA UACCAUAAAUAGAGUGCCGUAUU UACCAUAAAUAGAGUGCCGUAUU UACCAUAAAUAGAGUGCCGUAUUU UACCAUAAAUAGAGUGCCGUAUUU UACCAUAAAUAGAGUGCCGUAUUU ACCAUAAAUAGAGUGCCGUAUUU ACCAUAAAUAGAGUGCCGUAUUU ACCAUAAAUAGAGUGCCGUAUUU CCAUAAAUAGAGUGCCGUAU	21 21 19 20 21 22 23 24 25 19 20 21 22 25 20 21	1 37 11 12 110 9 1 1 4 2 29 4	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
ACGGCACUCUAUUUAUGGUAC Others AUACGGCACUCUAUUUAUGGU UACCAUAAAUAGAGUGCCG UACCAUAAAUAGAGUGCCGU UACCAUAAAUAGAGUGCCGU UACCAUAAAUAGAGUGCCGUAU UACCAUAAAUAGAGUGCCGUAU UACCAUAAAUAGAGUGCCGUAUU UACCAUAAAUAGAGUGCCGUAUUU UACCAUAAAUAGAGUGCCGUAUUU ACCAUAAAUAGAGGGCCGUAUUUU ACCAUAAAUAGAGGGCCGUAUUU ACCAUAAAUAGAGGGCCGUAUUU ACCAUAAAUAGAGGGCCGUAUUU CCAUAAAUAGAGGGCCGUAU CCAUAAAUAGAGGGCCGUAU	21 21 19 20 21 22 23 24 25 19 20 21 20 21	1 37 11 12 110 9 1 1 4 2 29 4 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
ACGGCACUCUAUUUAUGGUAC Others AUACGGCACUCUAUUUAUGGU UACCAUAAAUAGAGUGCCG UACCAUAAAUAGAGUGCCGUAU UACCAUAAAUAGAGUGCCGUAU UACCAUAAAUAGAGUGCCGUAU UACCAUAAAUAGAGUGCCGUAUU UACCAUAAAUAGAGUGCCGUAUU UACCAUAAAUAGAGUGCCGUAUUU UACCAUAAAUAGAGUGCCGUAUUUU ACCAUAAAUAGAGUGCCGUAUUUU ACCAUAAAUAGAGUGCCGUAUUUU CACAUAAAUAGAGUGCCGUAUUUU ACCAUAAAUAGAGUGCCGUAU ACCAUAAAUAGAGUGCCGUAU CAUAAAUAGAGUGCCGUAU CAUAAAUAGAGUGCCGUAU CAUAAAUAGAGUGCCGUAU	21 21 19 20 21 22 23 24 25 19 20 21 20 21 20 21 20 21 20 21 21 22 23 24 25 20 20 20 20 20 20 20 20 20 20 20 20 20	1 37 11 12 110 9 1 1 4 2 29 4 3 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
ACGGCACUCUAUUUAUGGUAC Others AUACGGCACUCUAUUUAUGGU. UACCAUAAAUAGAGUGCCGU. UACCAUAAAUAGAGUGCCGUAU. UACCAUAAAUAGAGUGCCGUAU. UACCAUAAAUAGAGUGCCGUAU. UACCAUAAAUAGAGUGCCGUAUU. UACCAUAAAUAGAGUGCCGUAUUU. UACCAUAAAUAGAGUGCCGUAUUU. ACCAUAAAUAGAGUGCCGUAUUU. ACCAUAAAUAGAGUGCCGUAUUU. ACCAUAAAUAGAGUGCCGUAUUU. CAUAAAUAGAGUGCCGUAU. CAUAAAUAGAGUGCCGUAU. CAUAAAUAGAGUGCCGUAU. CAUAAAUAGAGUGCCGUAU. CAUAAAUAGAGUGCCGUAU. CAUAAAUAGAGUGCCGUAU. CAUAAAUAGAGUGCCGUAUU. CAUAAAUAGAGUGCCGUAUU. CAUAAAUAGAGUGCCGUAUU.	21 21 19 20 21 22 23 24 25 19 20 21 20 21 22 21 22 22 23 24 25 21 20 21 21 22 21 22 21 21 21 21 21 21 21 21	14 1 37 11 12 110 9 1 1 4 2 29 4 3 3 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
ACGGCACUCUAUUUAUGGUAC Others AUACCGCACUCUAUUUAUGGU UACCAUAAAUAGAGUGCCG UACCAUAAAUAGAGUGCCGU UACCAUAAAUAGAGUGCCGU UACCAUAAAUAGAGUGCCGUAU UACCAUAAAUAGAGUGCCGUAUU UACCAUAAAUAGAGUGCCGUAUU UACCAUAAAUAGAGUGCCGUAUUU ACCAUAAAUAGAGUGCCGUAUUU ACCAUAAAUAGAGUGCCGUAUUU ACCAUAAAUAGAGUGCCGUAUUU ACCAUAAAUAGAGUGCCGUAUUU ACCAUAAAUAGAGUGCCGUAU CCAUAAAUAGAGUGCCGUAU CCAUAAAUAGAGUGCCGUAU CCAUAAAUAGAGUGCCGUAU CAUAAAUAGAGUGCCGUAUU CAUAAAUAGAGUGCCGUAUU CAUAAAUAGAGUGCCGUAUU CAUAAAUAGAGUGCCGUAUU CAUAAAUAGAGUGCCGUAUU CAUAAAUAGAGUGCCGUAUU	21 21 22 20 21 22 23 24 25 19 20 21 20 21 22 21 22 21 20 21 21 21 22 23 24 25 25 27 27 27 27 27 27 27 27 27 27 27 27 27	14 1 37 11 12 110 9 1 1 4 2 29 4 3 3 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
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. CGAGGUAA CUGUUGCAGCAUCC.		22	13	3			
GAGGUAACUGUUGCAG		16	1	4			
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		21	16	3			
		22	1	3			
AGGUAACUGUUGCAGCAU		18	4	3			
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Total cloned: 119 shared 5' end with miRNA: 23 shared 3' end with miRNA: 1							
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overlapping gene (I19389) is encoded on same (minus) strand	, iinciy	part or a	minder Cit	ADCCI WICH MI	10 20020,		
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UCGCUGCAACAGUUAGCUAGCA	22	15	2				
UCGCUGCAACAGUUAGCUAGCAU	23	1	2				
Shared 3' Terminus							
CGCUGCAACAGUUAGCUAG	19	1	2				
Subsequence							
Others							
CGAGGUAACUGUUGCA	16	1	3				
	18	2	3				
	19	3	3				
	20	7	3				
	22	13	3				
GAGGUAACUGUUGCAG	16	1	4				
GAGGUAACUGUUGCAGCAU	19	15	3				
GAGGUAACUGUUGCAGCAUC	20	1	3				
GAGGUAACUGUUGCAGCAUCC	21	16	3				
GAGGUAACUGUUGCAGCAUCCA.	22	1	3				
. AGGUAACUGUUGCAGCAU	18	4	3				
AGGUAACUGUUGCAGCAUC	19	1	3				
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AGCUAAUGAUGAGAGAUC					19	4	2
.AGCUAAUGAUGAGAAUCA					20	5	2
AGCUAAUGAUGAGAGAAUCAA					21	7	2
AGCUAAUGAUGAGAGAAUCAAA					22	12	2
AGCUAAUGAUGAGAGAAUCAAAC					23	3	2
AGCUAAUGAUGAGAGAAUCAAACA					24	1	2
AGCUAAUGAUGAGAGAAUCAAACAUU					26	4	2
Shared 3' Terminus							
					17	4	2
GAGCUAAUGAUGAGAGAAU					19	1	2
Subsequence					-		_
GCUAAUGAUGAGAA.					15	4	2
GCUAAUGAUGAGAGAA					16	4	2
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GAGCTIAATIGATIGAGAG					16	1	2
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GAGCUAAUGAUGAGAAA				1.8	1
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GCUAUGAUGAGAGAAUCA				19	1
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GCUAAUGAUGAGAGAAUCAAA.				21	
GCUAAUGAUGAGAGAAUCAAAC				22	2
				23	1
GCUAAUGAUGAGAGAAUCAAACAU				24	1
GCUAAUGAUGAGAGAAUCAAACAUU				25	3
				27	1
UUGCCUGAUAUGCUAAAUGUAGACAAUC				28	1
GCCUGAUAUGCUAAAUGUAGACAAU				25	1
CUAAAUGUAGACAAUCU				17	1
CUAAAUGUAGACAAUCUUGAAUUCC				22	
					1
AAUCUUGAAUUCCUCGUUACUGAAGUUC				28	1
AUCUUGAAUUCCUCGUUACUGAAGUU				26	2
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UUGAAUUCCUCGUUACUGAAGUUCA				25	1
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UGAAUUCCUCGUUACUGAAGUUCA				24	3
GAAUUCCUCGUUACUGAAGUU.				21	1
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UUCCUCGUUACUGAAGUUC				19	i
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miR-2034 GUGAAAAGAGUUUUUUUAGAAUUUUUAGAAUUAGCCCCCUAAAUGAAGGGCUAAUGCAAAAAAAUGUCAGUGCAAAUGAAGUUACAA (((((((((((((((((((((((((((((((21 19 20 22 20 19 21 22 18	59 4 34 31 1 2 1 2	1 1 1 1 1 1 1		2
miR-2034 GUGAAAAGAGUUUUACUGAUGUUUUUAGAAUUAGCCCCCUAAAUGAAGGGCUAAUGCAAAAAAAUGUCAGUGCAAAUGCAUGAAACUUACAA (((((((((((((((((((((((((((((((21 19 20 22 20 19 21 22	59 4 34 31 1 2 1 2 3	1 1 1 1		2
miR-2034 GUGAAAAGAGUUUUACUGAUGUUUUUAGAAUUAGCCCCCUAAAUGAAGGGCUAAUGCAAAAAAAUGUCAGUGCAAAUGAACUUACAA (((((((((((((((((((((((((((((((21 19 20 22 20 19 21 22 18	59 4 34 31 1 2 1 2 1 2 3	1 1 1 1 1 1 1		2
miR-2034 GUGAAAAGAGUUUUUUAGAGUUUUUUAGAAUUAGCCCCCUAAAUGAAGGGCUAAUGCAAAAAAAUGUCAGUGCAAAUGCAUGAAACUUACAA (((((((((((((((((((((((((((((((21 19 20 22 20 19 21 22 18	59 4 34 31 1 2 1 2 1 2 3	1 1 1 1 1 1 1		2
miR-2034 GUGAAAAGAGUUUUACUGAUGUUUUUAGAAUUAGCCCCCUAAAUGAAGGGCUAAUGCAAAAAAUGUCAGUGCAAAUGCAUGAAACUUACAA ((((((((((((((((((((((((((((21 19 20 22 20 19 21 22 18	59 4 34 31 1 2 1 2 1 2 3	1 1 1 1 1 1 1		2
miR-2034 GUGAAAAGAUGUAUUUUUUUAGAAUUUUUUAGAAUUAGCCCCCUAAAUGAAGGGCUAAUGCAAAAAAAUGCCAGUGCAAAUGCAUGAAACUUACAA ((((((((((((((((((((((((((((((((21 19 20 22 20 19 21 22 18	59 4 34 31 1 2 1 2 1 2 3	1 1 1 1 1 1 1		2
miR-2034 GUGARAAGAGUUUUUUUUUUUUUUUUUUUUAGAAUUUUUUUAGAAUUUAGCCCCCUAAUGAAGGGCUAAUGCAAAAAAUGUCAGUGCAAAUGCAUGAAACUUACAA ((((((((((((((((((((((((((((21 19 20 22 20 19 21 22 18	59 4 34 31 1 2 1 2 1 2 3	1 1 1 1 1 1 1		2
miR-2034 GUGAAAAGAGUUUUACUGAUGUUUUUAGAAUUAGCCCCCUAAAUGAAGGGCUAAUGCAAAAAAAUGUCAGUGCAAAUGCAUGAAACUUACAA ((((((((((((((((((((((((((((((((21 19 20 22 20 19 21 22 18	59 4 34 31 1 2 1 2 1 2 3	1 1 1 1 1 1 1		2
miR-2034 GUGAAAAGGUUUUUUUUUUUUUUAGAAUUUUGCCCCCUAAAUGAAGGGCUAAUGCAAAAAAUGCCAGUGCAAAUGCAUGAAACUUACAA (((((((((((((((((((((((((((((((21 19 20 22 20 19 21 22 18 20	59 4 34 31 1 2 1 2 1 2 3	1 1 1 1 1 1 1		2
miR-2034 GUGAAAAGAGUUUUACUGAUGUUUUUAGAAUUAGCCCCCUAAAUGAAGGGCUAAUGCAAAAAAAUGUCAGUGCAAAUGCAUGAAACUUACAA (((((((((((((((((((((((((((((21 19 20 22 20 19 21 22 18 20	59 4 34 31 1 2 1 2 1 2 3	1 1 1 1 1 1 1		2
miR-2034 GUGAAAAGGUUUUUUUUUUUUUUAGAAUUUUGCCCCCUAAAUGAAGGGCUAAUGCAAAAAAUGCCAGUGCAAAUGCAUGAAACUUACAA (((((((((((((((((((((((((((((((21 19 20 22 20 19 21 22 18 20	59 4 34 31 1 2 1 2 1 2 3	1 1 1 1 1 1 1		2
miR-2034 GUGAAAAGGUUUUUUUUUUUUUUUUAGAAUUUUUUAGAAUUAGCCCCCUAAAUGAAGGGCUAAUGCAAAAAAAUGUCAGUGCAAAUGCAUGAAACUUACAA (((((((((((((((((((((((((((((((21 19 20 22 20 19 21 22 18 20	59 4 34 31 1 2 1 2 1 2 3	1 1 1 1 1 1 1		2
miR-2034 GUGAAAAGAGUUUUUUUUUUUUUAGAAUUUUUUAGAAUUAGCCCCCUAAAUGAAGGGCUAAUGCAAAAAAAUGUCAGUGCAAAUGCAUGAAACUUACAA ((((((((((((((((((((((((((((21 19 20 22 20 19 21 22 18 20	59 4 34 31 1 2 1 2 1 2 3	1 1 1 1 1 1 1		2
miR-2034 GUGAAAAGAGUUUUUUAGAAUUUUUUAGAAUUUAGCCCCCUAAAUGAAGGGCUAAUGCAAAAAAAUGCCAGUGCAAAUGCAUGAAACUUACAA ((((()((((((((((((((((((((((((((((21 19 20 22 20 19 21 22 18 20	59 4 34 31 1 2 1 2 1 2 3	1 1 1 1 1 1 1		2
miR-2034 GUGAAAAGGUUGUAGUUUUUACAAGUUUUUAGAAUUAGCCCCCUAAAUGAAGGGCUAAAUGCAAAAAAUUGCCAAGAAAAUUGCAAAAAUUGAAACUUACAA ((((()(((()(((((((((())))))	21 19 20 22 20 19 21 22 18 20	59 4 34 31 1 2 1 2 1 2 3	1 1 1 1 1 1 1		2
miR-2034 GUGAAAAGGUGUAGUUUUAGAAUUAGAAUUAGCCCCCUAAAUGAAGGGCUAAUGCAAAAAAUGUCAGUGCAAAUGCAGAAACUUACAA (((((((((((((((((((((((((((((21 19 20 22 20 19 21 22 18 20	59 4 34 31 1 2 1 2 3	1 1 1 1 1 1 1		2
miR-2034 GUGAAAAGGUGUAGUUUUUAGAAUUUUUUAGAAUUAGCCCCCUAAAUGAAGGGCUAAUGCAAAAAAUGUCAGUGCAAAUGCAUGAAACUUACAA (((((((((((((((((((((((((((((((21 19 20 22 20 19 21 22 18 20	59 4 34 31 1 2 1 2 3	1 1 1 1 1 1 1		2
miR-2034 GUGAAAAGGUGUAGUUUUAGAAUUAGAAUUAGCCCCCUAAAUGAAGGGCUAAUGCAAAAAAUGUCAGUGCAAAUGCAGAAACUUACAA (((((((((((((((((((((((((((((21 19 20 22 20 19 21 22 18 20	59 4 34 31 1 2 1 2 3	1 1 1 1 1 1 1		2

Shared 3' Terminus						
UGGUCUGUUACAAGGA	17	2	2			
CAUGGUCUGUUACAAGGA .	19	1	2			
	19	_	2			
Subsequence Others						
	20	1	2			
	20 17	1				
UCUGUUACAAGGGAUGA		_	2			
UCUGUUACAAGGGAUGAAGUGCU	23	1	2			
	23	1	2			
UCCCUUGUGACAGCCCAU	18	4	2			
UCCCUUGUGACAGCCCAUG	19	1	2			
UCCCUUGUGACAGCCCAUGG	20	1	2			
	22	5	2			
	17	3	2			
	18	9	2			
CCUUGUGACAGCCCAUGGG	19	5	2			
CCUUGUGACAGCCCAUGGGA	20	12	2			
	21	1	2			
CUUGUGACAGCCCAUGGGA	19	3	2			
miR-2036						
AUAAGAGUCGUGCCAGGACCCGGUGAGAACGUACAGUAAGCACUUGACGAUGUAUAUUGUACGACUCUCAUCGUAUCCUGCACGGC	AAUGAACA					
((((((((((((((((((((((((((((((((((
Total cloned: 117 shared 5' end with miRNA: 47 shared 3' end with miRNA: 3						
	on: Interge	enic				
miRNA	5	-				
			23	51	1	
Shared 5' Terminus						
			18	10	1	
			19	9	1	
UAUAUUGUACGACUCUCAUC			20	8	1	
UAUAUUGUACGACUCUCAUCG			21	3	ī	
UAUAUUGUACGACUCUCAUCGU			22	11	1	
UAUAUUGUACGACUCUCAUCGUAU			24	6	1	
Shared 3' Terminus			2-1	0	-	
UAUUGUACGACUCUCAUCGUA			21	1	1	
AUAUUGUACGACUCUCAUCGUA.			22	2	1	
Subsequence			22	2	1	
Subsequence UAUUGUACGACUCUCAU.			17	1	1	
UAUUGUACGACUCUCAUCGU			20	1	1	
Others			20	1	1	
			21	3	1	
. CGGUGAGAACGUACAGUAAGC					1	
			22	11	1	
miR-2037						
	IICAIIA C					
AGCUAGGUCUUGGUCACCGUGGUAAAAGCCGUCCAAGCACCCUCUUGGCAGUUGGUGAGACUUUUUACCGUGGUCUGAGAUCAG						
.((.((((((((((((((((((((((((((((()					
Total cloned: 116 shared 5' end with miRNA: 21 shared 3' end with miRNA: 4						
	on: Interge	enic				
miRNA					_	
			22	86	1	
Shared 5' Terminus			1.0	-		
UGUGAUUGGAGACUUU.			16	1	1	
UGUGAUUGGAGACUUUU			17	1	1	
			18	3	1	
.UGUGAUUGGAGACUUUUAC			19	4	1	
			20	2	1	
UGUGAUUGGAGACUUUUACCG			21	10	1	
Shared 3' Terminus						
GUGAUUGGAGACUUUUACCGU			21	4	1	
Others						
			19	1	1	
GGUAAAAGCCGUCCAAGCACCU			23	2	1	
			19	2	1	
miR-2038						
AACCUGAUGAGCCUUAGUGUCACCCUGAUGACCUUAGUGUCACCCUGAUGACCUUAAUGUCACCAUGAUGACCUUAGUGUCACCCU	GAUGA					
(((((.((.((.((.((.((.((.((.(
Total cloned: 116 shared 5' end with miRNA: 52 shared 3' end with miRNA: 1						
	on: Introni	ic; overlap	ping gene	(238021)	is encoded on same (pl	ıs) strand
miRNA						
ACCUUAAUGUCACCAUGAUGA			21	36	2	

Shared 5' Terminus						
ACCUUAAUGUCACCAUGAU			19	8	2	
ACCUUAAUGUCACCAUGAUG			20	8	2	
ACCUUAAUGUCACCAUGAUGAC			22	35	2	
ACCUUAAUGUCACCAUGAUGACC			23	1	2	
Shared 3' Terminus						
			20	1	2	
Subsequence						
Others						
CACCCUGAUGACCUUAGUG.			19	2	6	
			19	2	6	
			20	3	6	
			20 22	3 2	6 6	
CACCCUGAUGACCUUAGUGUCA			22	2	6	
			19	5	6	
ACCCUGAUGACCUUAGUGU			19	5	6	
ACCCUGAUGACCUUAGUGUCA			21	1	6	
ACCCUGAUGACCUUAGUGUCA			21	1	6	
CCUUAAUGUCACCAUGAUGAC			21	1	2	
miR-2039						
UUGUAUAAGCCUACCUUUAUUUUAUUUUAUAUGUAAAUAAA						
((((((((((((((((((((((((((((((((((
Total cloned: 85 shared 5' end with miRNA: 33 shared 3' end with miRNA:						
Scaffold: scaffold_264 Coordinates: 119656-119716 Strand: Minus	Locatio	n: Intronic	; overlapping o	gene (40331) is encoded on	same (minus) strand
mirna	20	4.2				
AUAAAAUAAAGGUAGGCUCU Shared 5' Terminus	20	43	1			
	18	9	2			
AUAAAAUAAAGGUAGGCUC	19	4	1			
	21	7	1			
AUAAAAGGUAGGCUCUCU	22	13	1			
Shared 3' Terminus			_			
AAAUAAAAUAAAGGUAGGCUCU	22	1	1			
Subsequence						
Others		_	_			
UAAGCCUACCUUUAUUUUAUU	21	1	1			
UAAGCCUACCUUUAUUUUAUUU	22 23	1	1 1			
AAGCCUACCUUIAUUUUAUUU	21	2	1			
AAGCCUACCUUUAUUUUAUUUU	22	1	i			
AGCCUACCUUUAUUUUUUUU	20	1	2			
AAAUAAAUAAAGGUAGGCUC	21	1	1			
miR-2040a						
GAUCGUGAUGCCUACAACCUUCGGGUCAGCUACGACAUGAGCGCUCCUCGUUUGUCUCGUAACUGCCCUGAAGGUA						
(((((((((((((((((((((((((((((((((((
Total cloned: 75 shared 5' end with miRNA: 5 shared 3' end with miRNA: !		T				
Scaffold: scaffold_108 Coordinates: 81029-81121 Strand: Minus miRNA	LOCat10	n: Intergen	IIC			
UUUGUCUCGUAACUGCCCUGAAG			23	39	2	
Shared 5' Terminus			23	33	2	
UUUGUCUCGUAACUGCCCUGA			21	1	2	
UUUGUCUCGUAACUGCCCUGAA			22	4	2	
Shared 3' Terminus						
UGUCUCGUAACUGCCCUGAAG			21	3	2	
			22	1	2	
			30	1	2	
Subsequence			17	1	2	
			17	1	2 2	
			20	3 8	2	
Others			20	0	4	
			18	1	2	
UCGGGUCAGCUACGACAUGA			20	3	2	
UCGGGUCAGCUACGACAUGAG			21	8	2	
UCGGGUCAGCUACGACAUGAGC			22	1	2	
UCGGGUCAGCUACGACAUGAGCG			23	1	2	

miR-2040b AGAUCAUGAUACCUACCACCUUCAGGUCAGCUACGACACGAGCGCUCCUCGUUCGU					
((((.(((((((((((((((((((((((((((
Total cloned: 71 shared 5' end with miRNA: 14 shared 3' end with miRNA: 2 Scaffold: scaffold 82 Coordinates: 49686-49778 Strand: Plus Location: Interv	zonia				
Scallold: Scallold_82 Coordinates: 49686-49778 Strand: Plus Location: Inter	deurc				
		23	27	2	
Shared 5' Terminus .UUCGUCUCGUAACUGCCCU.		19	3	2	
UUCGUCACUGAA UUCGUCACUAAA		22	3 11	2	
Shared 3' Terminus					
UCGUCUCGUAACUGCCCUGAAG		22	2	2	
Subsequence Others					
		21	2	2	
UUCAGGUCAGCUACGACACGAGC		23	10	2	
		20 21	1 3	2 2	
UCAGGULAGCUACGACACGAGC		22	4	2	
		23	î	2	
CAGGUCAGCUACGACACGAG		20	1	2	
		21 22	2 1	2 2	
AGGULAGLUACGALACGAGC AGGULAGCUACGACAGGAGC		20	1	2	
UCGUCUCGUAACUGCCCUGAAGG.		23	2	2	
miR-2041 AUCCUCGGAAACCCAGGGGUAUUUUGCUCUUACGUUUCACUCGCGAG <mark>UGAAACGUUAGAGCAAAAUACU</mark> CCUGGGUUUCCGAGGAUGA					
AUCCUCGGAAACCCAGGGGUUUUUGCUCUUACGUUUCACUCGCGGAACGGGAACGAGGCAAAAACCCUCGGGGUUCCCAGGAGACCAGACCCAGGAGACCCAGGAGACCAGACCCAGGAGACCCAGGAGACCAGACCCAGGAGACCAGACCAGAGACCAGACCAGAGACCACACACACACACACACACACACACACACACACACACA					
Total cloned: 72 shared 5' end with miRNA: 0 shared 3' end with miRNA: 7					
Scaffold: scaffold_19 Coordinates: 418368-418456 Strand: Minus Location: Interg	genic				
mirNA	0.0		•		
	22	57	2		
GAAACGUUAGAGCAAAAUACU	21	7	2		
AUUUUGCUCUUACGUUUCA	19	4	1		
AUUUUGCUCUUACGUUUCACU	21	4	1		
miR-2042					
UUUJACAAUGACGACACCC <mark>UUAUAAAUCAUCCUUGCACUAC</mark> UUAUGUCGUACAUUGAUGAUUUAUGAAGGUGUGUUGCUGACUCUGC					
(((((((((,(((((((,((,((,(,(,(,,(,,(
Total cloned: 72 shared 5' end with miRNA: 4 shared 3' end with miRNA: 0 Scaffold: scaffold 231 Coordinates: 5525-5613 Strand: Minus Location: Interv		. 7			-in 2042
Scalloid: Scalloid_231 Coordinates: 5525-5613 Strand: Winus Location: Inter	genic; like	ery part or	. a IIIIRNA (cluster with n	IIR-2043
UUAUAAAUCAUCCUUGCACUAC	22	24	1		
Shared 5' Terminus	2.3				
	23	4	1		
Subsequence					
Others					
CGUACAUUGAUUAUGA	20	5	1		
CGUACAUUGAUGAUUUAUGAA. CGUACAUUGAUGAUUUAUGAAG.	21 22	20 19	1		
CONCROUNDURAU	22	10	-		
miR-2043					
AUGUACGGGCCCGCCUAUGAAAAUAGAAAAGCUUCCGGUUUUUUGACAUCGCAAUACCGGAGUCUUUUCGUGUCCAUAUUCGUGACCAGAAUC					
((.((((((((((((((((((((((((((((((
Scaffold: scaffold 231 Coordinates: 5179-5273 Strand: Minus Location: Inter-	genic; like	ly part of	a miRNA	cluster with m	iR-2042
miRNA					
		19	3	1	
Snared 5' Terminus		20	3	1	
UACCGGAGUCUUUUCUGUGUCC		22	2	1	
Others					
AAAUAGAAAAGCUUCCGGUUUU. AAUAGAAAAGCUUCCGGUUU.		22 20	1	1	
MAUAGAAAAGCUUCCGGUUU.		∠∪	Τ.	1	

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miR-2044a
Location: Intergenic; likely part of a miRNA cluster with miR-2044b;
miRNA
......UGCCCUCAAAAGACGGUAUUAG.....
                                          1
Shared 5' Terminus
......UGCCCUCAAAAGACGGUAU.....
UGCCCUCAAAAGACGGUAUU
                                   20
......UGCCCUCAAAAGACGGUAUUA......
                                          1
......UAUAUCGCCUUUUGAGGUUA......
.....UAUAUCGCCUUUUGAGGUUAUU.....
GUAUCUGAUAUCGAAUCUCUUAUAUCGCCUUUUGAGGUUAUUUUCUUAAUACCCUCAAAAGACGGUAUUAGAGAUUACACAGCUGGACA
Location: Exonic; likely part of a miRNA cluster with miR-2044a;
overlapping gene (199356) is encoded on same (plus) strand
50
                                          2
                                   2.2
Shared 5' Terminus
18
19
UACCCUCAAAAGACGGUAUU.
                                   20
......UACCCUCAAAAGACGGUAUUA.....
......UAUAUCGCCUUUUGAGGUUA......
.....UAUAUCGCCUUUUGAGGUUAUU.....
                                   2.2
AGGUUGAAUGAGCUUUAUCAAGAUAAAUGCCAUAAAAUGUUUU<mark>UAUGGCAUUUAUCUUGAUAAAG</mark>CUCAUUGGUACCA
Scaffold: scaffold 23 Coordinates: 707879-707957 Strand: Minus
                            Location: Intronic; overlapping gene (200699) is encoded on same (minus) strand
miRNA
......UAUGGCAUUUAUCUUGAUAAAG.....
                                   14
                                       3
Shared 5' Terminus
2.1
UAUGGCAUUUAUCUUGAUAAAGCU .
                                24
Shared 3' Terminus
23
                                   1
                                       3
Others
......UUUAUCAAGAUAAAUGCCAUA.....
10
.....UUAUCAAGAUAAAUGCCAUA.....
                                20
21
22
2.3
Scaffold: scaffold 43
         Coordinates: 185998-186099 Strand: Plus
                            Location: Intronic; overlapping gene (163685) is encoded on same (plus) strand
miRNA
UCCCAGAGUGUUGAGUUCAUACAA.
                                              21
                                                  1
Shared 5' Terminus
......UCCCAGAGUGUUGAGUUCAU.....
                                           2.0
......UCCCAGAGUGUUGAGUUCAUA.....
......UCCCAGAGUGUUGAGUUCAUAC.....
                                           22
......UCCCAGAGUGUUGAGUUCAUACA......
                                           23
25
Shared 3' Terminus
17
                                                  2
 25
                                                  1
Subsequence
2.2
                                              1
                                                  1
```

GUAUGGUAAUUAAUCUCUGGUA GUAUGGUAAUUAAUCUCUGGUACA UAUGGUAAUUAAUCCUCUGG UAUGGUAAUUAAUCCUCUGGUA AUGGUAAUUAAUCCUCUGGUA AUGGUAAUUAAUCCUCUGGUA miR-2047		22 24 19 21 20	1 1 2 1	1 1 1 1
AGAGUAAAUUUUAUGGCAUUACAUCACUUCAUAGCUAUUUACUCUUAAGAGUAAAUAGCUAUGAAGUGAUACAAUGCCAUAAAAUUUUGAC(((((((((((((((((((((((((((((((((
CAUCACUUCAUAGCUAUUUACUCU	24	11	1	
CAUCACUUCAUAGCUAUUUAC CAUCACUUCAUAGCUAUUUACU CAUCACUUCAUAGCUAUUUACUC Shared 3' Terminus	21 22 23	1 4 5	1 1 1	
ACUUCAUAGCUAUUUACUCU	20	1	2	
. ACAUCACUUCAUAGCUAUUUAC . ACAUCACUUCAUAGCUAUUUACU . UAAAUAGCUAUGAAGUGAUACA . UAAAUAGCUAUGAAGUGAUACAA . UAAAUAGCUAUGAAGUGAUACAA UAAAUAGCUAUGAAGUGAUACAAU.	22 23 22 23 24	2 1 6 2 3	1 1 1 1	
miR-2048 AUCCGGGAGUAAAUUCGUAACUGCUCAAUUCGCCGAGCAGAUGUCGGAGAGUUCAACUGUCAGCAUCUGCUCGGCGAAUUGAGCAGUUAUUUUGACCAAGA .((((((((((((((((((((((((((((((
		22	5	2
UUCGCCGAGCAGAUGU .		16 18 19 21	1 3 4 3	4 3 3 2
UCGCCGAGCAGAUGUCGGAGAG GUCAGACAUCUGCUCGGCGAA GUCAGACAUCUGCUCGGCGAAU UCAGACAUCUGCUCGGCGAAU UCAGACAUCUGCUCGGCGAA UCAGACAUCUGCUCGGCGAAU UCAGACAUCUGCUCGGCGAAU UCAGACAUCUGCUCGGCGAAU		22 21 22 19 20 21 22	1 1 2 2 3 1 2	2 1 1 1 1 1
miR-2049 GUAUNANGGCGUUUUUGUUUUAGAUGUUUUAGGGAGAACAGUUCGAGAAAGGUUCUCCCUCAAGACCCUGAAACAAAACGCAAUGA(((((((((((((((((((((((((((((((
Shared 5' Terminus 20	19	1		
Others ACACCUGAAACAAAACGCAAU. 21	1	1		
GGCGUUUUGUUUUAGAUGU 19 GGCGUUUUGUUUUAGAUGUCU 21	1 1 2 1	1 1 1		
miR-2050 AUCAUCCAUGAGCCGUAUUCAAUGCAAAUGCACGCAAAUGAAGAUGAACAAUCGACUCGAUUCAUGUGCAUGCA				
		23	8	3
CAAAUGCACGCAAAUGAAGA		20 21	3 2	5 3

		22	1	3
JUGCACGCAAAUGAAGAUGA.		19	3	3
Subsequence				
AAAUGCACGCAAAUGAAGAOthers		19	1	6
GAUUCAUGUGCAUGUACA		22	2	1
CAUGUGCAUGCAUUUACA		18	1	2
UUGAAUACGUCUCAUGGAU		19	1	4
miR-2051 GUCAUUUCAUGGCGCGAGAACCCGGGUCCCAGUCAUCAAACGUCAUUGCACAUUUGAUUGCUGUGAUCUGGUUUUCCGUGUCGAUGUAUAAC(((((((((((((((((((((((((((((((23	8	1	
Shared 5' Terminus		-	_	
AUUUGAUUGCUGUGAUCUG	19	6	1	
AUUUGAUUGCUGUGAUCUGG	20	1	1	
Shared 3' Terminus		_	_	
UUUGAUUGCUGUGAUCUGGUUU	22	1	1	
	19	1	1	
UUUGAUUGCUGUGAUCUGGUU	21	1	1	
Others				
CCCGGGUCCCAGUCANAC	21	1	1	
CCCGGGUCCCAGUCAUCAAACGU	23	2	1	