

1 **Expression Profiles of miRNAs from bovine mammary glands in response to**
 2 ***Streptococcus agalactiae*-induced mastitis**

3
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 6 **SUPPLEMENTARY FILE**

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 8 The supplementary files include three parts:

9 Part1. Supplementary Tables S1-S7 (page1-3);

10 Part2. Supplementary data file SD1. Novel miRNAs identified in this study (page 4-62);

11 Part3 Supplementary data file SD2. Target genes for the known miRNAs (page 63-116)

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 13 1. Supplementary Table S1-S7

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 15 Supplementary Table S1 Injection quarter sites

Group	Cow1	Cow2	Cow3
Control(PBS)	LF	LF	LF
Treat (<i>S.agalactiae</i>)	RB	LB	RB

16 Note: LF: left front; RB : right back ; LB: left back.

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 18 Supplementary Table S2 Summary of small RNA sequencing data from the two groups

Class	Control (%)	<i>S. agalactiae</i> (%)
Total	21,293,853	19,142,094
high_quality	21,253,265 (100)	19,093,551 (100)
3'adapter_null	5,959 (0.028)	5,804 (0.03)
insertnull	8,499 (0.04)	61,710 (0.32)
5'adapter_contaminant	330,968 (1.56)	266,943 (1.40)
smaller_than_18nt	60,374 (0.28)	222,813 (1.17)
polyA	465 (0.002)	368 (0.002)
clean_reads	20,847,000 (98.09)	18,535,913 (97.08)

19 Note: Total reads: total sequenced reads; high_ quality: Number of high quality reads with no more
 20 than 4 bases whose quality score is lower than 10 and no more than 6 bases whose quality score is
 21 lower than 13; 3'adapter_null: Number of reads with no 3' adapter; insert null: number of reads with
 22 no insertion; 5'adapter_contaminant: number of 5' contaminants; smaller_than_18nt: Number of
 23 reads less than 18nt; polyA: number of reads with polyA.; clean_reads: Number of clean reads after
 24 adapters and contaminants are removed which are used in the following analysis.

27 Supplementary Table S3 Summary of small RNA sequencing data matched to genome

Class	Total sRNAs		Unique sRNAs	
	Control (%)	<i>S. agalactiae</i> (%)	Control (%)	<i>S. agalactiae</i> (%)
Total	20,444,199 (100)	26,572,196 (100)	466,207 (100)	950,043 (100)
match	14,817,130 (72.48)	18,685,726 (70.32)	120,988 (25.95)	281,568 (29.67)

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30 Supplementary Table S4 Summary of small RNA sequencing data matched to GenBank

Class	Total sRNAs		Unique sRNAs	
	Control (%)	<i>S. agalactiae</i> (%)	Control (%)	<i>S. agalactiae</i> (%)
Total	20,444,199 (100)	26,572,196 (100)	466,207 (100)	950,043 (100)
rRNA	89,246 (0.44)	217,647 (0.82)	23,171 (4.97)	49,142 (5.17)
tRNA	14,212 (0.07)	19,948 (0.08)	2,937 (0.63)	3,998 (0.42)
Other RNA	20,340,741 (99.49)	26,334,601 (99.10)	440,099 (94.40)	896,903 (94.41)

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32 Supplementary Table S5 Summary of small RNA sequencing data matched to Rfam

Class	Total sRNAs		Unique sRNAs	
	Control (%)	<i>S. agalactiae</i> (%)	Control (%)	<i>S. agalactiae</i> (%)
Total	20,444,199 (100)	26,572,196 (100)	466,207 (100)	950,043 (100)
rRNA	27,043 (0.13)	55,762 (0.21)	12,369 (2.65)	25,193 (2.65)
snRNA	2,550 (0.01)	8,132 (0.03)	1,314 (0.28)	2,982 (0.31)
snoRNA	19,809 (0.1)	30,975 (0.12)	2,787 (0.60)	4,552 (0.48)
tRNA	57,844 (0.29)	79,168 (0.30)	9,845 (2.11)	14,516 (1.53)
Other RNA	20,336,953 (99.48)	26,398,159 (99.34)	439,892 (94.36)	902,800 (95.03)

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35 Supplementary Table S6 Summary of known miRNA in the *S. agalactiae* and control groups

	miRNA	miRNA *	miRNA- 5p	miRN A-3p	miRNA precursors	Unique sRNAs matched to miRNA precursors	total matched miRNA precursors	sRNAs to
Known miRNA in miRbase	620	0	82	81	798	-	-	
<i>S. agalactiae</i>	373	0	59	59	517	10,376	17,703,700	
Control	358	0	53	51	488	8,066	14,380,650	

36 Note: miRNA: micro RNA

37 miRNA*: about 22nt noncoding RNAs, which are processed from precursors with a characteristic
38 hairpin secondary structure in the biogenesis of microRNAs

39 miRNA-5p: mature micro RNA from pre-miRNA 5' end of the hairpin structure

40 miRNA-3p: mature micro RNA from pre-miRNA 3' terminus of the hairpin structure

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42 Supplementary Table S7 Distribution of small RNAs among different categories in the control group
43 and *S. agalactiae* groups

Class	Unique sRNAs		Percent (%)		Total sRNAs		Percent (%)	
	control	<i>S.</i> <i>agalactiae</i>	control	<i>S.</i> <i>agalactiae</i>	control	<i>S.</i> <i>agalactiae</i>	control	<i>S.</i> <i>agalactiae</i>
Total	466,207	950,043	100	100	20,444,199	26,572,196	100	100
miRNA	7,957	10,190	1.71	1.07	14,373,694	17,695,043	70.31	66.59
rRNA	27,108	56,087	5.81	5.9	99,431	237,918	0.49	0.9
snRNA	1,253	2,885	0.27	0.3	2,475	8,011	0.01	0.03
snoRNA	2,772	4,534	0.59	0.48	19,791	30,944	0.1	0.12
tRNA	10,378	15,372	2.23	1.62	59,953	82,050	0.29	0.31
unann	416,739	860,975	89.39	90.62	5,888,855	8,518,230	28.8	32.06

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47 **2. Additional file 1. Novel miRNAs identified in this**
 48 **study**

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 50 **Novel miRNA identified in the control group**

51											
52	t0001381	23	422	TAATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23					
53				TAATACTGCCTGGTAATGATGAC	mir-8	23	0	0	46		
54	t0001845	22	273	TGCGGGATCTTTAGTTGTGGTA	bta-miR-3432	22					
55				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	0	41		
56	t0002515	23	172	TGCGGGATCTTTAGTTGTGGTAT	bta-miR-3432	22					
57				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	1	38		
58	t0003639	22	95	AAAAAGTTCGTTGGGTTTTCT	bta-miR-2284z	22					
59				AAAAAGTTCGTTGGGTTTTT	mir-2284	20	1	2	33		
60	t0003899	22	86	CTATACAACCTACTGCCTCCT	hsa-let-7b-3p	22					
61				CTATACAACCTACTGCCTCCC	let-7	21	1	0	41		
62	t0003953	21	84	CAAACCAGTTGTGCCTGTAG	hsa-miR-6715a-3p	21					
63				CAAACCAGTCGTGCCTGTGG	mir-6715	19	2	0	36		
64	t0004235	22	75	TGGGTTCTGGCATGCTGATTT	hsa-miR-23b-5p	22					
65				TGGGTTCTGGCATGCTGATTT	mir-23	22	0	0	44		
66	t0004891	21	61	AATAAGTTCGTTGGGTTTTT	bta-miR-2284a	20					
67				AAAAAGTTCGTTGGGTTTTT	mir-2284	19	1	1	34		
68	t0005185	21	56	AAAAAGTTCGTTGGGTTTTTC	bta-miR-2284d	22					
69				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	1	1	36		
70	t0005287	22	54	ATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23					
71				TAATACTGCCTGGTAATGATGAC	mir-8	21	0	3	33		
72	t0005395	24	52	TAATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23					
73				TAATACTGCCTGGTAATGATGAC	mir-8	23	0	1	43		
74	t0007535	22	31	CAAACCAGTTGTGCCTGTAGA	hsa-miR-6715a-3p	21					
75				CAAACCAGTCGTGCCTGTGG	mir-6715	19	2	1	33		
76	t0007967	21	28	TGGGTTCTGGCATGCTGATT	hsa-miR-23b-5p	22					
77				TGGGTTCTGGCATGCTGATTT	mir-23	21	0	1	39		
78	t0008599	21	25	TGGCTCTGTGAGGTCGGCTCA	eca-miR-1842	21					
79				TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	0	42		
80	t0008741	24	25	ATCACATTGCCAGGATTACCACG	ptr-miR-23b	23					
81				ATCACATTGCCAGGATTACCAC	mir-23	23	0	1	43		
82	t0008773	22	25	AATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23					
83				TAATACTGCCTGGTAATGATGAC	mir-8	22	0	1	41		
84	t0009567	21	22	AAAAGTTCGTTGGGTTTTTT	bta-miR-2284y	21					
85				AAAAGTTCGTTGGGTTTTTC	mir-2284	20	1	0	39		
86	t0009917	23	21	AAAAAGTTCGTTTCAGGTTTTTCA	bta-miR-2284d	22					
87				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	1	35		
88	t0010683	20	19	AATAAGTTCGTTGGGTTTTT	bta-miR-2284c	20					

89				AAAAAGTTCGTTTTGGTTTT	mir-2284	18	2	0	34	
90	t0010701	21	19	AAAAGTTCGTTTCAGGTTTTTA	bta-miR-2284y	21				21
91				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2	0	36	
92	t0011341	18	17	GCGGGTGGTTCGGGGCGGG	gga-miR-1777	20				GTGGGCGGTGCGGGGCGGCC
93	undef	16	2	2	24					
94	t0011475	22	17	AATAAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22				22
95				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38	
96	t0011495	21	17	AAAAGTTCGTTTCAGGTTTTTT	bta-miR-2284u	21				21
97				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	0	2	34	
98	t0011789	22	16	GAAAGTTTGTGGGGTTTTTCT	bta-miR-2284a	20				20
99				AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	2	28	
100	t0011961	23	16	AATGTGGAAGTGGTCTGAGGCAT	hsa-miR-4657	23				23
101				AATGTGGAAGTGGTCTGAGGCAT	undef	23	0	0	46	
102	t0012001	22	16	AAAAGTTCGTTTCAGGTTTTTCA	bta-miR-2284u	21				21
103				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	1	1	36	
104	t0012211	22	15	TGAAAAGTTCGTTTGGGTTTTT	bta-miR-2284x	21				21
105				TGAAAAGTTCGTTTCGGGTTTT	mir-2284	20	1	1	36	
106	t0012243	22	15	TCAAGTCCGCTGTGAACACGG	gga-miR-124c-3p	22				22
107				TCAAGTCCGCTGTGAACACGG	mir-124	22	0	0	44	
108	t0012571	20	15	AAAAGTTCGTTTCGGGTTTT	bta-miR-2284y	21				21
109				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	0	3	29	
110	t0013233	19	14	AAAACACGAACAACTTTT	bta-miR-2285y	21				AAAACCCAAACAACTTTTTT
111	mir-2284	17	2	2	26					
112	t0013235	22	14	AAAAAGTTCGTTTCAGGTTTTTT	bta-miR-2284u	21				21
113				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	0	3	31	
114	t0013623	21	13	GAAAGTTTGTGGGGTTTTTC	bta-miR-2284a	20				20
115				AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	1	31	
116	t0013625	20	13	GAAAGTTTGTGGGGTTTTT	bta-miR-2284a	20				20
117				AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	0	34	
118	t0013879	23	13	AATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23				23
119				TAATACTGCCTGGTAATGATGAC	mir-8	22	0	2	38	
120	t0014327	22	12	TAAAAAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22				22
121				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	1	2	33	
122	t0014751	22	12	AAAAAGTTCGTTTCAGGTTTTTA	bta-miR-2284y	21				21
123				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2	1	33	
124	t0014869	21	11	TGAGTGTGTGTGTGTGAGTGA	hsa-miR-574-5p	23				23
125				TGAGTGTGTGTGTGTGAGTGTGT	mir-574	20	1	2	33	
126	t0015359	21	11	GAAAAGTTCGTTTGGGTTTTT	bta-miR-2284k	21				21
127				GAAAAGTTCGTTTCGGGTTTTT	mir-2284	19	2	0	36	
128	t0016707	22	10	ATCATGTATGATACTGCAAACA	hsa-miR-6516-3p	22				22
129				ATCATGTATGATACTGCAAACA	mir-6516	22	0	0	44	
130	t0016929	22	10	AAAAGTTCGTTTGGGTTTTTCA	bta-miR-2284b	21				21
131				AAAAGTTCGTTTGGTTTTTTC	mir-2284	20	1	1	36	
132	t0018043	21	9	CAAACAGTTGTCCTGTAGA	hsa-miR-6715a-3p	21				21

133		CCAAACCAGTCGTGCCTGTGG	mir-6715	18	2	2	28	
134	t0018329	20 9 AAAAGTTCGTTTCAGGTTTTA	bta-miR-2284j	20				
135		GAAAAGTTCGTTTCAGGTTTT	mir-2284	19	0	2	32	
136	t0018409	22 8 TTGGCTCTGTGAGGTCGGCTCA	eca-miR-1842	21				
137		TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	1	39	
138	t0020163	19 7 TGGCTCTGTGAGGTCGGCT	eca-miR-1842	21				TGGCTCTGTGAGGTCGGCTCA
139		mir-1842	19	0	2	32		
140	t0020749	24 7 TAGCACCATCTGAAATCGGTTATA	hsa-miR-29a-3p	22				
141		TAGCACCATCTGAAATCGGTTA	mir-29	22	0	2	38	
142	t0020821	21 7 TAAAAAGTTCGTTTGGGTTTT	bta-miR-2284aa	21				
143		AAAAAAGTTCGTTTGGGTTTT	mir-2284	19	2	0	36	
144	t0021159	21 7 GAAAAGTTCATTCGGGTTTTT	bta-miR-2284k	21				
145		GAAAAGTTCGGTCGGGTTTTT	mir-2284	19	2	0	36	
146	t0023681	22 6 GCGGCGGCGGCCGGGGGCG	bta-miR-2885	19				
147		CGGCGCAGCGCCGGGGCG	undef	18	1	3	26	
148	t0023847	20 6 GAAAGTTGGTTTGATTTTT	bta-miR-2284f	20				
149		AAAGTTCGTTTCGATTTTTTC	mir-2284	17	2	2	26	
150	t0024431	23 6 AACTGCCTGGTAATGATGACGC	rno-miR-200b-3p	23				
151		TAATACTGCCTGGTAATGATGAC	mir-8	21	0	4	30	
152	t0024989	21 6 AAAATGTTTCGCTTGGCTTTTT	bta-miR-2284ac	22				
153		AAATGTTTCGCTTGGCTTTTTCC	mir-2284	20	0	3	31	
154	t0025069	21 6 AAAAAGTTCGTTTCAGGTTTTA	bta-miR-2284j	20				
155		GAAAAGTTCGTTTCAGGTTTT	mir-2284	19	1	1	34	
156	t0025413	22 5 TGGCTCTGTGAGGTCGGCTCAA	eca-miR-1842	21				
157		TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	1	39	
158	t0026775	20 5 TAAAGTTCATTCGGGTTTTT	bta-miR-2284y	21				
159		AAAAGTTCGTTTCGGGTTTTTC	mir-2284	18	2	1	31	
160	t0027149	22 5 GCTAAAAAGTTCGTTTGGGTTT	bta-miR-2284v	20				
161		AAAAAGTTCGTTTGGGTTT	undef	19	0	4	26	
162	t0028033	21 5 CACAATACACGGTCGGCCTCT	oar-miR-323c	21				
163		CACAATACACGGTCGGCCTCT	mir-154	21	0	0	42	
164	t0028901	21 5 ACAAAGTTTGTTCGGGTTTTA	bta-miR-2284m	20				
165		GAAAAGTTTGTTCGGGTTTT	mir-2284	18	2	1	31	
166	t0029037	21 5 AAGAAGTTCGTTTGGGTTTTT	bta-miR-2284a	20				
167		AAAAGTTCGTTGGGTTTTT	mir-2284	19	1	1	34	
168	t0029201	23 5 AAACCTGAATGAACTTTTTGGCA	bta-miR-2285e	22				
169		AAACCTGAACGAACTTTTTGGC	mir-2284	21	1	1	38	
170	t0029227	20 5 AAAAGTTCGTTTCAGGTTTCT	bta-miR-2284j	20				
171		GAAAAGTTCGTTTCAGGTTTT	mir-2284	19	0	2	32	
172	t0029811	20 4 TGGGTTCCCTGGCATGCTGAT	hsa-miR-23b-5p	22				
173		TGGGTTCCCTGGCATGCTGATTT	mir-23	20	0	2	34	
174	t0030021	24 4 TGCGGGATCTTTAGTTGTGGTATA	bta-miR-3432	22				
175		TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	2	35	
176	t0031633	21 4 TACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23				

177		TAATACTGCCTGGTAATGATGAC	mir-8	20	0	4	28	
178	t0032849	20 4 GAAAAGTTCGTTTGGGTTTT	bta-miR-2284x	21				
179		TGAAAAGTTCGTTCCGGTTTT	mir-2284	19	1	1	34	
180	t0033863	21 4 CAGGGCTGGCAGGTATGGG	ptr-miR-4446	21				
181		CAGGGCTGGCAGTGAGATGGG	mir-4446	18	2	2	28	
182	t0033979	21 4 CAAGGTCCGCTGTGAACACGG	gga-miR-124c-3p	22				
183		TCAAGGTCCGCTGTGAACACGG	mir-124	21	0	1	39	
184	t0034313	21 4 ATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23				
185		TAATACTGCCTGGTAATGATGAC	mir-8	21	0	2	36	
186	t0034761	20 4 AGAAGTTCGTTTCAGGTTTT	bta-miR-2284i	21				
187		GAGAAGTTCGTTCTGGTGT	mir-2284	18	2	1	31	
188	t0035345	20 4 AAGAAGTTCGTTTGGGTTTT	bta-miR-2284c	20				
189		AAAAAGTTCGTTTTGGTTTT	mir-2284	18	2	0	34	
190	t0035509	20 4 AAAGTTCGTTTCAGGTTTT	bta-miR-2284y	21				
191		AAAAAGTTCGTTCCGGTTTTTC	mir-2284	18	2	1	31	
192	t0035573	23 4 AAACCTGAACAACTTTTTGGCA	bta-miR-2285c	22				
193		AAACCTGAACAACTTTTTGGC	mir-2284	22	0	1	41	
194	t0035717	22 4 AAAAAGTTCATTTGGGTTGTCT	bta-miR-2284c	20				
195		AAAAAGTTCGTTTTGGTTTT	mir-2284	18	2	2	28	
196	t0035909	23 3 TTGGCTCTGTGAGGTCGGCTCAA	eca-miR-1842	21				
197		TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	2	36	
198	t0039091	23 3 TCAAGGTCCGCTGTGAACACGGA	gga-miR-124c-3p	22				
199		TCAAGGTCCGCTGTGAACACGG	mir-124	22	0	1	41	
200	t0039437	20 3 TACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23				
201		TAATACTGCCTGGTAATGATGAC	mir-8	20	0	3	31	
202	t0044385	22 3 ATAAAGTTCATTCGGTTTTTT	bta-miR-2284y	21				
203		AAAAGTTCGTTCCGGTTTTTC	mir-2284	19	2	1	33	
204	t0045889	20 3 ACAAAGTTTGTTCGGTTTT	bta-miR-2284m	20				
205		GAAAAGTTTGTTCGGTTTT	mir-2284	18	2	0	34	
206	t0046515	20 3 AAAGTTCGTTCCGGTTTT	bta-miR-2284y	21				
207		AAAAGTTCGTTCCGGTTTTTC	mir-2284	19	1	1	34	
208	t0046517	19 3 AAAGTTCGTTCCGGTTTT	bta-miR-2284x	21				TGAAAAGTTCGTTCCGGTTTT
209		mir-2284	18	1	2	29		
210	t0046681	20 3 AAAAGTTCGTTCCGGTTTTTC	bta-miR-2284y	21				
211		AAAAGTTCGTTCCGGTTTTTC	mir-2284	20	0	1	37	
212	t0046685	22 3 AAAAGTTCGTTTCAGTTTTTT	bta-miR-2284u	21				
213		AAAAGTTCGTTCCGTTTTTCT	mir-2284	20	1	1	36	
214	t0046695	21 3 AAAAGTTCGTTTCAGTTTTTT	bta-miR-2284y	21				
215		AAAAGTTCGTTCCGGTTTTTC	mir-2284	19	1	2	31	
216	t0046887	21 3 AAAAAGTTCGTTTGGGTTTTG	bta-miR-2284c	20				
217		AAAAAGTTCGTTTTGGTTTT	mir-2284	19	1	1	34	
218	t0047399	20 2 TTGGCTCTGTGAGGTCGGCT	eca-miR-1842	21				
219		TGGCTCTGTGAGGTCGGCTCA	mir-1842	19	0	3	29	
220	t0049451	20 2 TGGGCTGTAGGGCATGAGA	hsa-miR-8052	22				

221	CGGGACTGTAGAGGGCATGAGC	undef	18	2	2	28	
222	t0049945	22	2	TGGAGCGGCTGCACAGAGCGTG	bta-miR-7860	21	
223	TGGAGCGGCTGCACAGAGCGT	undef	21	0	1	39	
224	t0055551	23	2	TCACATTGCCAGGGATTACCAG	ptr-miR-23b	23	
225	ATCACATTGCCAGGGATTACCAC	mir-23	22	0	2	38	
226	t0057569	21	2	TAAAGTTCATTCGGGTTTTTT	bta-miR-2284n	21	
227	AAAAAGTTTATTCGGGTTTTT	mir-2284	18	2	2	28	
228	t0057647	23	2	TAAAAAGTTCGTTGGGTTTTCT	bta-miR-2284z	22	
229	AAAAAAGTTTGTTCGGGTTTTT	mir-2284	20	2	1	35	
230	t0057649	20	2	TAAAAAGTTCGTTGGGTTT	bta-miR-2284v	20	
231	AAAAAGTTCGTTGGGTTT	undef	19	0	2	32	
232	t0058255	21	2	GTGAGGACTCGGGAGGTGGAA	bta-miR-1224	21	
233	GTGAGGACTCGGGAGGTGGAG	mir-1224	20	1	0	39	
234	t0063613	20	2	GAAAGTTCGTTTCGGGTTTTT	bta-miR-2284k	21	
235	GAAAAGTTCGTCGGGTTTTT	mir-2284	19	1	1	34	
236	t0063615	19	2	GAAAGTTCGTTTCGGGTTTT	bta-miR-2284x	21	TGAAAAGTTCGTTTCGGGTTTT
237	mir-2284	19	0	2	32		
238	t0063709	22	2	GAAAAGTTCATTCGGGTTTTTC	bta-miR-2284y	21	
239	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	1	36	
240	t0065891	19	2	CGGGTGGTCGGGGTGGGTC	tca-miR-3897-3p	19	CGTGGTGGTGGGGGTGGGG
241	undef	16	2	2	24		
242	t0066301	21	2	CGGCGGCGGCCGGGGGCG	bta-miR-2885	19	
243	CGGCGGCGGCCGGGGGCG	undef	18	1	2	29	
244	t0071763	21	2	ATGTCACTCGGCCACTACCC	oar-miR-668-3p	21	
245	ATGTCACTCGGCCACTACCC	mir-668	21	0	0	42	
246	t0072427	23	2	ATCATGTATGATACTGCAAACAG	hsa-miR-6516-3p	22	
247	ATCATGTATGATACTGCAAACA	mir-6516	22	0	1	41	
248	t0072935	24	2	ATACTGCCTGGTAATGATGACGCT	rno-miR-200b-3p	23	
249	TAATACTGCCTGGTAATGATGAC	mir-8	21	0	5	27	
250	t0073031	20	2	ATAAATTCGTTTGGATTTTT	bta-miR-2284f	20	
251	AAAGTTCGTTTCGATTTTTTC	mir-2284	17	2	2	26	
252	t0075713	21	2	AGAAAGTTTGTGGGTTTTT	bta-miR-2284a	20	
253	AAAAGTTCGTTGGGTTTTT	mir-2284	19	1	1	34	
254	t0077893	23	2	AATAAGTTCGTTTGGGTTTTTCC	bta-miR-2284d	22	
255	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	1	35	
256	t0078647	22	2	AAGAAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22	
257	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38	
258	t0079549	19	2	AAAGTTCGTTTCAGGTTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
259	mir-2284	18	1	1	32		
260	t0079789	21	2	AAAGAGTTCGTTTCGGGTTTTT	bta-miR-2284y	21	
261	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	0	2	34	
262	t0079833	23	2	AAACTCGAACGAATTTTTGGCCA	bta-miR-2284t-3p	22	
263	AAACTCGAATGAATTTTTGGC	mir-2284	20	1	3	30	
264	t0079953	21	2	AAAATGTTTGTTCGGATGTTT	bta-miR-2284aa	21	

265	AAAAAAGTTTGGTTGGGTTTT	mir-2284	18	2	2	28	
266	t0079957	22 2 AAAATGTTTCGCTTGGCTTTTTC	bta-miR-2284ac	22			
267	AAATGTTTCGCTTGGCTTTTCC	mir-2284	21	0	2	36	
268	t0079963	22 2 AAAATCTGAATGAACTTTTTGG	bta-miR-2285b	22			
269	AAAATCTGAGTGAACCTTTTTGG	mir-2284	21	1	0	41	
270	t0079977	22 2 AAAAGTTCGTTTCGGGTTTTTG	bta-miR-2284y	21			
271	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	1	36	
272	t0080029	19 2 AAAAGGTTTCGTTTCGGGTTT	bta-miR-2284y	21			AAAAGTTCGTTTCGGGTTTTTC
273	mir-2284	18 0 4 24					
274	t0080353	21 2 AAAAGATTTGTTTGGGTTTTT	bta-miR-2284z	22			
275	AAAAAAGTTTGGTTGGGTTTTT	mir-2284	20	1	1	36	
276	t0080355	20 2 AAAAGATTTGTTTGGGTTTTT	bta-miR-2284aa	21			
277	AAAAAAGTTTGGTTGGGTTTTT	mir-2284	19	1	1	34	
278	t0080387	21 2 AAAACGTTTCGTTTCAGGTTTTT	bta-miR-2284y	21			
279	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	2	31	
280	t0080439	22 2 AAAAAGTTCGTTTGGGTTTTGC	bta-miR-2284d	22			
281	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38	
282	t0080441	21 2 AAAAAGTTCGTTTAGGTTTTT	bta-miR-2284c	20			
283	AAAAAGTTCGTTTGGTTTTT	mir-2284	19	1	1	34	
284	t0103403	23 1 TGGCTCTGTGAGGTCGGCTCAAG	eca-miR-1842	21			
285	TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	2	36	
286	t0103407	20 1 TGGCTCTGTGAGGTCGGCTC	eca-miR-1842	21			
287	TGGCTCTGTGAGGTCGGCTCA	mir-1842	20	0	1	37	
288	t0105427	24 1 TGGAGCGGCTGCACAGAGCGTGAA	bta-miR-7860	21			
289	TGGAGCGGCTGCACAGAGCGT	undef	21	0	3	33	
290	t0105429	23 1 TGGAGCGGCTGCACAGAGCGTGA	bta-miR-7860	21			
291	TGGAGCGGCTGCACAGAGCGT	undef	21	0	2	36	
292	t0110051	23 1 TGCAGGATCTTTAGTTGTGGTGT	bta-miR-3432	22			
293	TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	1	38	
294	t0111819	22 1 TGAGTGTGTGTGTGTGAGTGAT	hsa-miR-574-5p	23			
295	TGAGTGTGTGTGTGTGAGTGTGT	mir-574	21	1	1	38	
296	t0123341	23 1 TGAAAAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22			
297	AAAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	1	35	
298	t0123343	21 1 TGAAAAGTTCGTTTGGGTTTTT	bta-miR-2284x	21			
299	TGAAAAGTTCGTTTCGGGTTTTT	mir-2284	20	1	0	39	
300	t0142823	21 1 TATACAACCTACTGCCTTCCT	hsa-let-7b-3p	22			
301	CTATACAACCTACTGCCTTCCC	let-7	20	1	1	36	
302	t0175259	20 1 GCGGCGGCGCGCGGGGGGCG	bta-miR-2885	19			
303	CGGCGGCAGCGCGGGGGCG	undef	17	1	3	24	
304	t0185683	21 1 GCGGCGGCGCGCGGGGGGCG	bta-miR-2885	19			
305	CGGCGGCAGCGCGGGGGCG	undef	17	2	2	26	
306	t0209385	19 1 GAAAAGTTCGTTTGGGTTT	bta-miR-2284v	20			AAAAAGTTCGTTTGGGTTTTT
307	undef	18 1 1 32					
308	t0209681	23 1 GAAAACCTCGAACGAATTTTTGGC	bta-miR-2285aa	23			

309	AAAACTGGAACGAACTTTTGGGC	mir-2284	20	2	2	32	
310	t0226715	22 1	CTAAAAAGTTCGTTTGGGTTT	bta-miR-2284aa	21		
311	AAAAAAGTTTGGGTTT	mir-2284	19	2	1	33	
312	t0226717	21 1	CTAAAAAGTTCGTTTGGGTTT	bta-miR-2284v	20		
313	AAAAAGTTCGTTTGGGTTT	undef	19 0	3	29		
314	t0234127	22 1	CGGCGGCGGCGAGGAGGAGGC	mmu-miR-3960	20		
315	GGCGGCGGCGAGGCGGGGG	mir-3960	18	2	2	28	
316	t0234135	20 1	CGGCGGCGGCGCGGGGGG	bta-miR-2885	19		
317	CGGCGGCAGCGCGGGGCG	undef	17 2 1	29			
318	t0281095	21 1	CAAAGTTCGTTTGGGTTTT	bta-miR-2284a	20		
319	AAAAGTTCGTTGGGTTTT	mir-2284	18	2	1	31	
320	t0281725	20 1	CAAACCAGTTGTGCTGTAG	hsa-miR-6715a-3p	21		
321	CCAAACCAGTCGTGCCTGTGG	mir-6715	18	2	1	31	
322	t0282391	24 1	ATTTGCAGTAACAGGTGTGAACAT	mmu-miR-6516-5p	22		
323	TTTGCAGTAACAGGTGTGGACA	mir-6516	21	1	2	35	
324	t0282393	23 1	ATTTGCAGTAACAGGTGTGAACA	mmu-miR-6516-5p	22		
325	TTTGCAGTAACAGGTGTGGACA	mir-6516	21	1	1	38	
326	t0316357	22 1	AGAAAGTTTGTGGGTTTTTC	bta-miR-2284y	21		
327	AAAAGTTCGTTGGGTTTTTC	mir-2284	19	2	1	33	
328	t0316359	20 1	AGAAAGTTTGTGGGTTTT	bta-miR-2284p	21		
329	TGAAAGTTTGTTCGGATTTT	mir-2284	18	2	1	31	
330	t0316361	22 1	AGAAAGTTGGTTTGATTTTC	bta-miR-2284b	21		
331	AAAAGTTCGTTGGTTTTTC	mir-2284	19	2	1	33	
332	t0316363	21 1	AGAAAGTTGGTTTGATTTTC	bta-miR-2284l	20		
333	AAAAGTTGGTTCGGTTTTT	mir-2284	18	2	1	31	
334	t0316511	22 1	AGAAACCCAGACGAACTTTTG	bta-miR-2285j	22		
335	AAAACCCAGAACGAACTTTTG	mir-2284	20	1	2	33	
336	t0330039	19 1	ACAAAGTTTGTTCGGGTTT	bta-miR-2284m	20	GAAAAGTTTGTTCGGGTTTT	
337	mir-2284	17 2 1	29				
338	t0330867	22 1	AATGTGGAAGTGGTCTGAGGCA	hsa-miR-4657	23		
339	AATGTGGAAGTGGTCTGAGGCAT	undef	22 0	1	41		
340	t0332015	22 1	AATCTGAACGAACTTTGTGGCA	bta-miR-2285e	22		
341	AAACCTGAACGAACTTTTGGC	mir-2284	19	2	2	30	
342	t0333087	19 1	AATAAGTTCGTTTGGGTTT	bta-miR-2284v	20	AAAAAGTTCGTTTGGGTTT	
343	undef	18 1 1	32				
344	t0338163	20 1	AAGAGTTCGTTTCAGGTTTT	bta-miR-2284y	21		
345	AAAAGTTCGTTTCAGGTTTT	mir-2284	18	2	1	31	
346	t0338861	23 1	AAGAAGTTCGTTTGGGTTTTCC	bta-miR-2284d	22		
347	AAAAAGTTCGTTAGGTTTTTC	mir-2284	20	2	1	35	
348	t0338863	22 1	AAGAAGTTCGTTTCAGGTTTTTC	bta-miR-2284y	21		
349	AAAAGTTCGTTTCAGGTTTTTC	mir-2284	20	1	1	36	
350	t0338865	20 1	AAGAAGTTCGTTTCAGGTTTT	bta-miR-2284j	20		
351	GAAAAGTTCGTTTCAGGTTTT	mir-2284	18	2	0	34	
352	t0344419	20 1	AAAGTTCGTTTCGGTTTTTT	bta-miR-2284y	21		

353	AAAAGTTCGTTCCGGTTTTTTC	mir-2284	19	1	1	34	
354	t0344425	19	1	AAAGTTCGTTACAGGTTTTA	bta-miR-2284j	20	AAAAAGTTCGTTACAGGTTTT
355	mir-2284	18	0	3	27		
356	t0344677	20	1	AAAGTTCGTTTGGGTTTTT	bta-miR-2284a	20	
357	AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	0	34	
358	t0344683	21	1	AAAGTTCGTTCCGGTTTTTTC	bta-miR-2284y	21	
359	AAAAGTTCGTTCCGGTTTTTTC	mir-2284	20	1	0	39	
360	t0344687	18	1	AAAGTTCGTTCCGGGTTT	bta-miR-2284h-5p	21	
361	CCCAAAAGTTCGTTCCGGGTTT	mir-2284	17	1	3	24	
362	t0345969	20	1	AAAGAGTTCGTTCCGGGTTTT	bta-miR-2284y	21	
363	AAAAGTTCGTTCCGGTTTTTTC	mir-2284	19	0	3	29	
364	t0345973	20	1	AAAGAGTTCGTTACAGGTTTT	bta-miR-2284j	20	
365	GAAAAGTTCGTTACAGGTTTT	mir-2284	18	2	0	34	
366	t0346557	22	1	AAACGTTTCGTTACAGTTTTTCT	bta-miR-2284u	21	
367	AAAAGTTCGTTCCGGTTTTTCT	mir-2284	20	1	1	36	
368	t0346785	24	1	AAACCTGAACAAACTTTTTGGCTA	bta-miR-2285c	22	
369	AAACCTGAACAAACTTTTTGGC	mir-2284	22	0	2	38	
370	t0347491	22	1	AAAATGTTTGGTTGGATGTTTT	bta-miR-2284z	22	
371	AAAAAAGTTTGGTTGGGTTTTT	mir-2284	19	2	2	30	
372	t0347499	20	1	AAAATGTTCCGCTTGGCTTTT	bta-miR-2284ac	22	
373	AAATGTTCCGCTTGGCTTTTTCC	mir-2284	19	0	4	26	
374	t0347717	20	1	AAAAGTTCGTTCTGGTTTTT	bta-miR-2284y	21	
375	AAAAGTTCGTTCCGGTTTTTTC	mir-2284	19	1	1	34	
376	t0347751	20	1	AAAAGTTCGTTCCGGTTTTT	bta-miR-2284y	21	
377	AAAAGTTCGTTCCGGTTTTTTC	mir-2284	19	1	1	34	
378	t0347771	23	1	AAAAGTTCGTTACAGTTTTTCAA	bta-miR-2284u	21	
379	AAAAGTTCGTTCCGGTTTTTCT	mir-2284	20	1	2	33	
380	t0347777	21	1	AAAAGTTCGTTACAGTTTTTAA	bta-miR-2284j	20	
381	GAAAAGTTCGTTACAGTTTT	mir-2284	19	0	3	29	
382	t0347817	20	1	AAAAGTTCATTCCGGGTTTTT	bta-miR-2284n	21	
383	AAAAAGTTTATCCGGTTTTT	mir-2284	19	1	1	34	
384	t0347823	22	1	AAAAGTTCATTAGGGTTTTTCT	bta-miR-2284d	22	
385	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	1	2	33	
386	t0347905	21	1	AAAAGGTTTCGTTCCGGTTTTT	bta-miR-2284y	21	
387	AAAAGTTCGTTCCGGTTTTTTC	mir-2284	20	0	2	34	
388	t0347907	18	1	AAAAGGTTTCGTTCCGGTT	bta-miR-2284v	20	AAAAAGTTCGTTGGGGTTT
389	undef	16	2	2	24		
390	t0347909	22	1	AAAAGGTTTCGTTACAGTTTTTC	bta-miR-2284y	21	
391	AAAAGTTCGTTCCGGTTTTTTC	mir-2284	20	1	1	36	
392	t0347911	20	1	AAAAGGTTTCGTTACAGTTTT	bta-miR-2284j	20	
393	GAAAAGTTCGTTACAGTTTT	mir-2284	18	2	0	34	
394	t0349191	19	1	AAAAGATTTGGTTGGGTTT	bta-miR-2284aa	21	AAAAAAGTTTGGTTGGGTTTT
395	mir-2284	18	1	2	29		
396	t0349639	22	1	AAAAATCTGAATGAACTTTTG	bta-miR-2285x	23	

397				GAAAAATCTGAATGAACTTTTGG	mir-2284	21	1	1	38	
398	t0349703	21	1	AAAAAGTTCCTTCAGGTTTT	bta-miR-2284j	20				
399				GAAAAGTTCGTTTCAGGTTTT	mir-2284	18	2	1	31	
400	t0349705	20	1	AAAAAGTTCCTTCAGGTTTT	bta-miR-2284j	20				
401				GAAAAGTTCGTTTCAGGTTTT	mir-2284	18	2	0	34	
402	t0349721	23	1	AAAAAGTTCGTTTGGGTTTTTCA	bta-miR-2284d	22				
403				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	21	1	1	38	
404	t0349727	22	1	AAAAAGTTCGTTTGGGTTTTAA	bta-miR-2284c	20				
405				AAAAAGTTCGTTTTGGTTTT	mir-2284	19	1	2	31	
406	t0349729	21	1	AAAAAGTTCGTTTGGGTTTTA	bta-miR-2284c	20				
407				AAAAAGTTCGTTTTGGTTTT	mir-2284	19	1	1	34	
408	t0349735	21	1	AAAAAGTTCGTTTGGATTTTT	bta-miR-2284d	22				
409				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	19	2	1	33	
410	t0349737	20	1	AAAAAGTTCGTTTAGGTTTT	bta-miR-2284c	20				
411				AAAAAGTTCGTTTTGGTTTT	mir-2284	19	1	0	37	
412	t0349747	22	1	AAAAAGTTCGTTTCGGGTTTTCC	bta-miR-2284d	22				
413				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38	
414	t0349755	23	1	AAAAAGTTCGTTTCAGGTTTTTTT	bta-miR-2284d	22				
415				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	1	35	
416	t0350065	22	1	AAAAACCCGAATGAACTTTTGG	bta-miR-2285n	22				
417				AAAAACCCGAATGAACTTTTGG	mir-2284	21	1	0	41	
418	t0353657	23	125	TAATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23				
419				TAATACTGCCTGGTAATGATGAC	mir-8	23	0	0	46	
420	t0354369	22	98	TGCGGGATCTTTAGTTGTGGTA	bta-miR-3432	22				
421				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	0	41	
422	t0354683	22	89	TGGGTTCTGGCATGCTGATTT	hsa-miR-23b-5p	22				
423				TGGGTTCTGGCATGCTGATTT	mir-23	22	0	0	44	
424	t0355119	20	80	AAGAGTTCGTTTCGGGTTTTT	bta-miR-2284y	21				
425				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	1	34	
426	t0355327	23	75	TGCGGGATCTTTAGTTGTGGTAT	bta-miR-3432	22				
427				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	1	38	
428	t0356349	21	59	AAGAGTTCGTTTCGGGTTTTTC	bta-miR-2284y	21				
429				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	0	39	
430	t0356961	21	52	AAAGTTCGTTTCGGGTTTTTC	bta-miR-2284y	21				
431				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	0	39	
432	t0359301	20	35	AAAGTTCGTTTCGGGTTTTT	bta-miR-2284y	21				
433				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	1	34	
434	t0360577	22	29	CTATAAACCTACTGCCTTCCT	hsa-let-7b-3p	22				
435				CTATAAACCTACTGCCTTCCC	let-7	21	1	0	41	
436	t0361779	21	24	TGGGTTCTGGCATGCTGATT	hsa-miR-23b-5p	22				
437				TGGGTTCTGGCATGCTGATTT	mir-23	21	0	1	39	
438	t0362099	22	24	AAAAAGTTCGTTTGGGTTTTCT	bta-miR-2284z	22				
439				AAAAAAGTTTGGTTTTGGTTTTT	mir-2284	20	1	2	33	
440	t0365017	22	17	TGCTGGATCTTTAGTTGTGGTG	bta-miR-3432	22				

441	TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	0	41
442	t0366233 21 16 AATAAGTTCGTTGGGTTTTT	bta-miR-2284a	20			
443	AAAAAGTTCGTTGGGTTTTT	mir-2284	19	1	1	34
444	t0367997 21 14 AAAAAGTTCGTTGGGTTTTTC	bta-miR-2284d	22			
445	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	1	1	36
446	t0368747 24 13 TAATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23			
447	TAATACTGCCTGGTAATGATGAC	mir-8	23	0	1	43
448	t0370155 22 12 AATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23			
449	TAATACTGCCTGGTAATGATGAC	mir-8	22	0	1	41
450	t0370517 23 11 TGCTGGATCTTTAGTTGTGGTGT	bta-miR-3432	22			
451	TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	1	38
452	t0371479 21 11 AAGAAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21			
453	AAAAAGTTCGTTTCAGGTTTTTC	mir-2284	19	1	2	31
454	t0371533 21 11 AAAAGTTCGTTCTGGTTTTTC	bta-miR-2284y	21			
455	AAAAAGTTCGTTTCAGGTTTTTC	mir-2284	20	1	0	39
456	t0371535 21 11 AAAAGTTCGTTTCAGGTTTTTT	bta-miR-2284y	21			
457	AAAAAGTTCGTTTCAGGTTTTTC	mir-2284	20	1	0	39
458	t0372109 21 10 TGAGTGTGTGTGTGTGAGTGA	hsa-miR-574-5p	23			
459	TGAGTGTGTGTGTGTGAGTGTGT	mir-574	20	1	2	33
460	t0372887 22 10 AACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23			
461	TAATACTGCCTGGTAATGATGAC	mir-8	21	0	3	33
462	t0374917 22 9 AATAAGTTCGTTGGGTTTTTC	bta-miR-2284d	22			
463	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38
464	t0376177 21 8 TGAGGGATCTTTAGTTGTGGT	bta-miR-3432	22			
465	TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	1	1	36
466	t0379409 20 7 GAAAGTTGGTTGGATTTTT	bta-miR-2284f	20			
467	AAAGTTCGTTTCGATTTTTTC	mir-2284	17	2	2	26
468	t0379981 20 7 AAGAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21			
469	AAAAAGTTCGTTTCAGGTTTTTC	mir-2284	18	2	1	31
470	t0380079 20 7 AAAAGTTCGTTCTGGTTTTT	bta-miR-2284y	21			
471	AAAAAGTTCGTTTCAGGTTTTTC	mir-2284	19	1	1	34
472	t0382741 22 6 TAAAAAGTTCGTTGGGTTTTTC	bta-miR-2284d	22			
473	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	1	2	33
474	t0382973 21 6 GAAAAGTTCGTTGGGTTTTT	bta-miR-2284k	21			
475	GAAAAGTTCGTTTCAGGTTTTT	mir-2284	19	2	0	36
476	t0384477 20 5 TGGGTTCTGGCATGCTGAT	hsa-miR-23b-5p	22			
477	TGGGTTCTGGCATGCTGATTT	mir-23	20	0	2	34
478	t0385545 22 5 TGCAGGATCTTTAGTTGTGGTG	bta-miR-3432	22			
479	TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	0	41
480	t0386371 23 5 TGAGGGATCTTTAGTTGTGGTAT	bta-miR-3432	22			
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482	t0386373 22 5 TGAGGGATCTTTAGTTGTGGTA	bta-miR-3432	22			
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484	t0387699 20 5 GAAAGTTTGTGGGTTTTT	bta-miR-2284a	20			

485	AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	0	34	
486	t0388709	19 5 AAGAGTTCGTTGGGGTTTT	bta-miR-2284w	21	AAGAGTTTGTTCGGGTTTCTC		
487	mir-2284	18 1 2 29					
488	t0388991	21 5 AAAACGTTTCGTTTCAGGTTTTT	bta-miR-2284y	21			
489	AAAAGTTCGTTGGGGTTTTTC	mir-2284	19	1	2	31	
490	t0388993	19 5 AAAACACGAACAACTTTTT	bta-miR-2285y	21	AAAACCCAAACAACTTTTTT		
491	mir-2284	17 2 2 26					
492	t0392963	22 4 TGAAGGATCTTTAGTTGTGGTG	bta-miR-3432	22			
493	TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	2	0	38	
494	t0393427	22 4 TCAAGGTCCGCTGTGAACACGG	gga-miR-124c-3p	22			
495	TCAAGGTCCGCTGTGAACACGG	mir-124	22	0	0	44	
496	t0394515	21 4 GAAAGTTTGTGGGGTTTTTC	bta-miR-2284a	20			
497	AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	1	31	
498	t0395975	20 4 ACAAAGTTTGTTCGGGTTTT	bta-miR-2284m	20			
499	GAAAAGTTTGTTCGGGTTTT	mir-2284	18	2	0	34	
500	t0396037	23 4 AATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23			
501	TAATACTGCCTGGTAATGATGAC	mir-8	22	0	2	38	
502	t0396159	21 4 AAGAAGTTCGTTGGGGTTTTT	bta-miR-2284a	20			
503	AAAAGTTCGTTGGGGTTTTT	mir-2284	19	1	1	34	
504	t0396413	20 4 AAAAGTTCGTTTCGGGTTTTC	bta-miR-2284y	21			
505	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	0	1	37	
506	t0396507	22 4 AAAAAGTTCGTTTCAGGTTTTTA	bta-miR-2284y	21			
507	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2	1	33	
508	t0399439	21 3 TGCTGGATCTTTAGTTGTGGT	bta-miR-3432	22			
509	TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	1	1	36	
510	t0400619	23 3 TGCAGGATCTTTAGTTGTGGTGT	bta-miR-3432	22			
511	TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	1	38	
512	t0402509	20 3 TGAGGGATCTTTAGTTGTGG	bta-miR-3432	22			
513	TGCGGGATCTTTAGTTGTGGTG	mir-3432	19	1	2	31	
514	t0403237	22 3 TGAAAAGTTCGTTTGGGTTTTT	bta-miR-2284x	21			
515	TGAAAAGTTCGTTTCGGGTTTT	mir-2284	20	1	1	36	
516	t0405703	22 3 GCTAAAAAGTTCGTTTGGGTTT	bta-miR-2284v	20			
517	AAAAAGTTCGTTTGGGGTTT	undef	19	0	4	26	
518	t0407149	20 3 CAAAGTTCGTTTCGGGTTTTT	bta-miR-2284y	21			
519	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	1	34	
520	t0408601	20 3 AATAAGTTCGTTTGGGTTTT	bta-miR-2284c	20			
521	AAAAAGTTCGTTTGGTTTTT	mir-2284	18	2	0	34	
522	t0409059	22 3 AACAAGTTCGTTTGGGTTTTCT	bta-miR-2284u	21			
523	AAAAGTTCGTTTCGGTTTTTCT	mir-2284	19	2	1	33	
524	t0409061	21 3 AACAAGTTCGTTTGGGTTTTC	bta-miR-2284d	22			
525	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	19	2	1	33	
526	t0409097	19 3 AAAGTTCGTTTCGGGTTTT	bta-miR-2284x	21	TGAAAAGTTCGTTTCGGGTTTT		
527	mir-2284	18 1 2 29					
528	t0409099	21 3 AAAGTTCGTTTCAGGTTTTTC	bta-miR-2284y	21			

529			AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2	0	36	
530	t0409173	22	3	AAAGAGTTCGTTTCAGGTTTTTC	bta-miR-2284y			21	
531				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	1	36
532	t0409433	21	3	AAAAAGTTCGTTTGATTTTT	bta-miR-2284d			22	
533				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	19	2	1	33
534	t0409437	23	3	AAAAAGTTCGTTTCAGGTTTTTCA	bta-miR-2284d			22	
535				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	1	35
536	t0409439	21	3	AAAAAGTTCGTTTCAGGTTTTTA	bta-miR-2284j			20	
537				GAAAAGTTCGTTTCAGGTTTT	mir-2284	19	1	1	34
538	t0418285	21	2	TGCAGGATCTTAGTTGTGGT	bta-miR-3432			22	
539				TGCGGGATCTTAGTTGTGGTG	mir-3432	20	1	1	36
540	t0425473	23	2	TCACATTGCCAGGGATTACCACG	ptr-miR-23b			23	
541				ATCACATTGCCAGGGATTACCAC	mir-23	22	0	2	38
542	t0428181	21	2	GTGAGGACTCGGGAGGTGGAA	bta-miR-1224			21	
543				GTGAGGACTCGGGAGGTGGAG	mir-1224	20	1	0	39
544	t0430751	22	2	GAAAAGTTTGTGGGTTTTTCT	bta-miR-2284a			20	
545				AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	2	28
546	t0430757	21	2	GAAAAGTTCGTTTCGGGTTTTTA	bta-miR-2284y			21	
547				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2	0	36
548	t0430813	22	2	GAAAAGTTCGTTTGGGTTTTTC	bta-miR-2284d			22	
549				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38
550	t0433567	21	2	CACAATACACGGTCGGCCTCT	oar-miR-323c			21	
551				CACAATACACGGTCGGCCTCT	mir-154	21	0	0	42
552	t0433799	21	2	CAAAGTTCGTTTCGGGTTTTTC	bta-miR-2284y			21	
553				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	0	39
554	t0433951	21	2	ATGTCACTCGCCCACTACCC	oar-miR-668-3p			21	
555				ATGTCACTCGCCCACTACCC	mir-668	21	0	0	42
556	t0434349	24	2	ATCACATTGCCAGGGATTACCACG	ptr-miR-23b			23	
557				ATCACATTGCCAGGGATTACCAC	mir-23	23	0	1	43
558	t0434465	21	2	ATACTGCCTGGTAATGATGAC	rno-miR-200b-3p			23	
559				TAATACTGCCTGGTAATGATGAC	mir-8	21	0	2	36
560	t0437377	23	2	AATGTGGAAGTGGTCTGAGGCAT	hsa-miR-4657			23	
561				AATGTGGAAGTGGTCTGAGGCAT	undef	23	0	0	46
562	t0438145	22	2	AAGAAGTTCGTTTGGGTTTTTC	bta-miR-2284d			22	
563				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38
564	t0438813	20	2	AAAGGTTTCGTTTCAGGTTTTT	bta-miR-2284y			21	
565				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	18	2	1	31
566	t0439077	23	2	AAACCTGAATGAACTTTTTGGCA	bta-miR-2285e			22	
567				AAACCTGAACGAACTTTTTGGC	mir-2284	21	1	1	38
568	t0439159	21	2	AAAATGTTTCGCTTGCTTTTTT	bta-miR-2284ac			22	
569				AAAATGTTTCGCTTGCTTTTTCC	mir-2284	20	0	3	31
570	t0439175	22	2	AAAAGTTCGTTTGGGTTTTTCA	bta-miR-2284b			21	
571				AAAAGTTCGTTTGGGTTTTTC	mir-2284	20	1	1	36
572	t0439181	21	2	AAAAGTTCGTTTCGGGTTTTCC	bta-miR-2284y			21	

573	AAAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	0	39	
574	t0439585	21 2 AAAAAGTTCGTTTGGGTTTTG	bta-miR-2284c	20			
575	AAAAAGTTCGTTTTGGTTTT	mir-2284	19	1	1	34	
576	t0441863	22 1 TTGGCTCTGTGAGGTCGGCTCA	eca-miR-1842	21			
577	TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	1	39	
578	t0441865	21 1 TTGGCTCTGTGAGGTCGGCTC	eca-miR-1842	21			
579	TGGCTCTGTGAGGTCGGCTCA	mir-1842	20	0	2	34	
580	t0454165	20 1 TGTCACTCGGCCCACTACCC	oar-miR-668-3p	21			
581	ATGTCACTCGGCCCACTACCC	mir-668	20	0	1	37	
582	t0458735	19 1 TGGGTTCTGGCATGCTGA	hsa-miR-23b-5p	22			
583	TGGGTTCTGGCATGCTGATTT	mir-23	19	0	3	29	
584	t0462803	22 1 TGGCTCTGTGAGGTCGGCTCAA	eca-miR-1842	21			
585	TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	1	39	
586	t0462805	21 1 TGGCTCTGTGAGGTCGGCTCA	eca-miR-1842	21			
587	TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	0	42	
588	t0470073	22 1 TGGAGCGGCTGCACAGAGCGTG	bta-miR-7860	21			
589	TGGAGCGGCTGCACAGAGCGT	undef	21	0	1	39	
590	t0475449	24 1 TGCTGGATCTTTAGTTGTGGTGTA	bta-miR-3432	22			
591	TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	2	35	
592	t0481553	24 1 TGCGGGATCTTTAGTTGTGGTATA	bta-miR-3432	22			
593	TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	2	35	
594	t0513349	23 1 TGAAGGATCTTTAGTTGTGGTGT	bta-miR-3432	22			
595	TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	2	1	35	
596	t0513355	21 1 TGAAGGATCTTTAGTTGTGGT	bta-miR-3432	22			
597	TGCGGGATCTTTAGTTGTGGTG	mir-3432	19	2	1	33	
598	t0513881	21 1 TGAAAAGTTCGTTTGGGTTTT	bta-miR-2284x	21			
599	TGAAAAGTTCGTTTCGGGTTTT	mir-2284	20	1	0	39	
600	t0524049	21 1 TCATGTATGATACTGCAAACA	mmu-miR-6516-3p	22			
601	TCATGTATGATACTGCAAACAG	mir-6516	21	0	1	39	
602	t0527005	21 1 TCAAGGTCCGCTGTGAACACG	gga-miR-124c-3p	22			
603	TCAAGGTCCGCTGTGAACACGG	mir-124	21	0	1	39	
604	t0529247	21 1 TATACAACCTACTGCCTTCCT	hsa-let-7b-3p	22			
605	CTATACAACCTACTGCCTTCCC	let-7	20	1	1	36	
606	t0533125	24 1 TAGCACCATCTGAAATCGGTATA	hsa-miR-29a-3p	22			
607	TAGCACCATCTGAAATCGGTATA	mir-29	22	0	2	38	
608	t0534421	22 1 TACTGCCTGGTAATGATGACGC	rno-miR-200b-3p	23			
609	TAATACTGCCTGGTAATGATGAC	mir-8	20	0	5	25	
610	t0541513	21 1 TAAAAAGTTCGTTTGGGTTTT	bta-miR-2284aa	21			
611	AAAAAAGTTTGGTGGTTTT	mir-2284	19	2	0	36	
612	t0541515	20 1 TAAAAAGTTCGTTTGGGTTT	bta-miR-2284v	20			
613	AAAAAGTTCGTTTGGGTTT	undef	19	0	2	32	
614	t0565519	21 1 GCAGGATCTTTAGTTGTGGTG	bta-miR-3432	22			
615	TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	1	1	36	
616	t0573829	19 1 GAAAGTTTGTGGGTTTT	bta-miR-2284m	20			GAAAAGTTTGTTCGGTTTT

617	mir-2284	18	1	1	32			
618	t0573837	21	1	GAAAGTTGGTTTGGATTTTC	bta-miR-2284f	20		
619	AAAGTTCGTTCCGGATTTTC	mir-2284	18	2	1	31		
620	t0573839	19	1	GAAAGTTGGTTTGGATTTT	bta-miR-2284p	21	TGAAAGTTTGTTCGGGATTTT	
621	mir-2284	17	2	2	26			
622	t0574137	20	1	GAAAAGTTCGTTTGGGTTTT	bta-miR-2284x	21		
623	TGAAAAGTTCGTTCCGGGTTTT	mir-2284	19	1	1	34		
624	t0581655	21	1	CTAAAAAGTTCGTTTGGGTTT	bta-miR-2284v	20		
625	AAAAAGTTCGTTTGGGGTTT	undef	19	0	3	29		
626	t0596139	21	1	CCAAACCAGTTGTGCCTGTAG	hsa-miR-6715a-3p	21		
627	CCAAACCAGTCGTGCCTGTGG	mir-6715	19	2	0	36		
628	t0611071	24	1	ATACTGCCTGGTAATGATGACGCT	rno-miR-200b-3p	23		
629	TAATACTGCCTGGTAATGATGAC	mir-8	21	0	5	27		
630	t0611073	23	1	ATACTGCCTGGTAATGATGACGC	rno-miR-200b-3p	23		
631	TAATACTGCCTGGTAATGATGAC	mir-8	21	0	4	30		
632	t0625343	21	1	AGAAAGTTGGTTTGGATTTT	bta-miR-2284l	20		
633	AAAAGTTGGTTCGGGTTTTT	mir-2284	18	2	1	31		
634	t0625345	20	1	AGAAAGTTGGTTTGGATTTT	bta-miR-2284l	20		
635	AAAAGTTGGTTCGGGTTTTT	mir-2284	17	2	2	26		
636	t0638137	19	1	AATAAGTTCGTTTGGGTTT	bta-miR-2284v	20	AAAAAGTTCGTTTGGGGTTT	
637	undef	18	1	1	32			
638	t0638141	22	1	AATAAGTTCGTTTCAGGTTTTTC	bta-miR-2284y	21		
639	AAAAGTTCGTTCCGGGTTTTTC	mir-2284	20	1	1	36		
640	t0638143	20	1	AATAAGTTCGTTTCAGGTTTT	bta-miR-2284j	20		
641	GAAAAGTTCGTTTCAGGTTTT	mir-2284	18	2	0	34		
642	t0638145	19	1	AATAAGTTCGTTTCAGGTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT	
643	mir-2284	17	2	1	29			
644	t0641581	22	1	AAGAGTTCGTTTGGGTTTTTCT	bta-miR-2284u	21		
645	AAAAGTTCGTTCCGGTTTTTCT	mir-2284	19	2	1	33		
646	t0641587	18	1	AAGAGTTCGTTCCGGGTTT	bta-miR-2284w	21	AAGAGTTTGTTCGGGTTTCTC	
647	mir-2284	17	1	3	24			
648	t0641591	19	1	AAGAGTTCGTTTCAGGTTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT	
649	mir-2284	18	1	1	32			
650	t0642671	22	1	AAGAAGTTCGTTTCAGGTTTTTC	bta-miR-2284y	21		
651	AAAAGTTCGTTCCGGGTTTTTC	mir-2284	20	1	1	36		
652	t0642675	19	1	AAGAAGTTCGTTTCAGGTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT	
653	mir-2284	17	2	1	29			
654	t0646729	20	1	AACAAGTTCGTTTGGGTTTT	bta-miR-2284c	20		
655	AAAAAGTTCGTTTTGGTTTT	mir-2284	18	2	0	34		
656	t0647349	20	1	AAAGTTCGTTCCGGGTTTTTA	bta-miR-2284y	21		
657	AAAAGTTCGTTCCGGGTTTTTC	mir-2284	19	1	1	34		
658	t0647539	22	1	AAAGTTCGTTTGGGTTTTTCT	bta-miR-2284u	21		
659	AAAAGTTCGTTCCGGTTTTTCT	mir-2284	19	2	1	33		
660	t0647541	20	1	AAAGTTCGTTTGGGTTTTT	bta-miR-2284a	20		

661	AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	0	34	
662	t0647561	19 1 AAAGTTCGTTTCAGGTTTT	bta-miR-2284j	20			GAAAAGTTCGTTTCAGGTTTT
663	mir-2284	18 1 1 32					
664	t0649059	22 1 AAAGAGTTCGTTGGGTTTTTC	bta-miR-2284d	22			
665	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38	
666	t0649061	21 1 AAAGAGTTCGTTTCGGGTTTTT	bta-miR-2284y	21			
667	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	0	2	34	
668	t0649067	21 1 AAAGAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21			
669	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	2	31	
670	t0649201	22 1 AAAGAAGTTTGTGGGTTTTT	bta-miR-2284z	22			
671	AAAAAAGTTTGTGGGTTTTT	mir-2284	21	1	0	41	
672	t0650125	18 1 AAACACGAACAACTTTT	bta-miR-2285o	20			AAACCCGAACGAACTTTTGG
673	mir-2284	16 2 2 24					
674	t0650281	22 1 AAAATGTTTGTGGATGTTTT	bta-miR-2284z	22			
675	AAAAAAGTTTGTGGGTTTTT	mir-2284	19	2	2	30	
676	t0650285	22 1 AAAATGTTTCGCTTGGCTTTTTTC	bta-miR-2284ac	22			
677	AAATGTTTCGCTTGGCTTTTTCC	mir-2284	21	0	2	36	
678	t0650399	18 1 AAAAGTTCCTTCGGGTTT	bta-miR-2284v	20			AAAAAGTTCGTTTGGGGTTT
679	undef	17 1 2 27					
680	t0650403	20 1 AAAAGTTCGTTTAGGTTTTT	bta-miR-2285ae	22			
681	AGAAAGTTCATTTAGGTTTTTC	mir-2284	19	1	2	31	
682	t0650405	22 1 AAAAGTTCGTTCTGGTTTTTCA	bta-miR-2284u	21			
683	AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	1	1	36	
684	t0650407	21 1 AAAAGTTCGTTCTGGTTTTTA	bta-miR-2284y	21			
685	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2	0	36	
686	t0650409	19 1 AAAAGTTCGTTCTGGTTTTT	bta-miR-2284j	20			GAAAAGTTCGTTTCAGGTTTT
687	mir-2284	18 1 1 32					
688	t0650425	22 1 AAAAGTTCGTTTCGGGTTTTCCA	bta-miR-2284y	21			
689	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	1	36	
690	t0650435	21 1 AAAAGTTCGTTTCGGGTTTTTC	bta-miR-2284y	21			
691	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	0	39	
692	t0650441	20 1 AAAAGTTCGTTCCGGTTTTT	bta-miR-2284y	21			
693	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	1	34	
694	t0650443	22 1 AAAAGTTCGTTTCAGGTTTTTTT	bta-miR-2284u	21			
695	AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	1	1	36	
696	t0650447	21 1 AAAAGTTCGTTTCAGGTTTTTTT	bta-miR-2284u	21			
697	AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	0	2	34	
698	t0650455	22 1 AAAAGTTCGTTTCAGGTTTTTCA	bta-miR-2284u	21			
699	AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	1	1	36	
700	t0650459	21 1 AAAAGTTCGTTTCAGGTTTTTA	bta-miR-2284y	21			
701	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2	0	36	
702	t0650463	20 1 AAAAGTTCGTTTCAGGTTTTT	bta-miR-2284j	20			
703	GAAAAGTTCGTTTCAGGTTTTT	mir-2284	19	0	2	32	
704	t0650539	20 1 AAAAGTTCGTTTCGGGTTTTT	bta-miR-2284y	21			

705	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	0	3	29	
706	t0651851	21	1	AAAAGATTGTTGGGTTTTT	bta-miR-2284z	22	
707	AAAAAAGTTTGGTGGTTTTT	mir-2284	20	1	1	36	
708	t0652023	19	1	AAAACGTTTCAGGTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
709	mir-2284	17	2	1	29		
710	t0652247	22	1	AAAAAGTTTATTTGGGTTTTTT	bta-miR-2284n	21	
711	AAAAAGTTTATTCGGGTTTTT	mir-2284	20	1	1	36	
712	t0652253	21	1	AAAAAGTTCGTTGGGTTTTA	bta-miR-2284c	20	
713	AAAAAGTTCGTTTGGTTTTT	mir-2284	19	1	1	34	
714	t0652259	21	1	AAAAAGTTCGTTTCGGGTTTTTC	bta-miR-2284d	22	
715	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	1	1	36	
716	t0652279	22	1	AAAAAGTTCATTGGGTTGTCT	bta-miR-2284c	20	
717	AAAAAGTTCGTTTGGTTTTT	mir-2284	18	2	2	28	
718	t0652429	22	1	AAAAACCTGAACAACTTTTTG	bta-miR-2285j	22	
719	AAAAACCAGAACGAACTTTTTG	mir-2284	20	2	0	38	
720	t0654209	23	210	TAATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23	
721	TAATACTGCCTGGTAATGATGAC	mir-8	23	0	0	46	
722	t0656267	20	77	AAAGTTCGTTTCGGGTTTTT	bta-miR-2284y	21	
723	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	1	34	
724	t0656425	22	72	TGCGGGATCTTAGTTGTGGTA	bta-miR-3432	22	
725	TGCGGGATCTTAGTTGTGGTG	mir-3432	21	1	0	41	
726	t0657589	23	51	TGCGGGATCTTAGTTGTGGTAT	bta-miR-3432	22	
727	TGCGGGATCTTAGTTGTGGTG	mir-3432	21	1	1	38	
728	t0657791	20	49	AAACGTTTCGTTTCAGGTTTTT	bta-miR-2284y	21	
729	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	18	2	1	31	
730	t0657959	22	47	AAAAAGTTCGTTGGGTTTTCT	bta-miR-2284z	22	
731	AAAAAAGTTTGGTGGTTTTT	mir-2284	20	1	2	33	
732	t0658137	20	45	AAAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21	
733	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	18	2	1	31	
734	t0658213	21	44	CCAAACCAGTTGTGCCTGTAG	hsa-miR-6715a-3p	21	
735	CCAAACCAGTCGTGCCTGTGG	mir-6715	19	2	0	36	
736	t0658351	20	43	AAGAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21	
737	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	18	2	1	31	
738	t0658573	21	41	AAAGTTCGTTTCGGGTTTTTC	bta-miR-2284y	21	
739	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	0	39	
740	t0658783	20	39	AAGAGTTCGTTTCGGGTTTTT	bta-miR-2284y	21	
741	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	1	34	
742	t0659313	22	34	TGGGTTCTGGCATGCTGATTT	hsa-miR-23b-5p	22	
743	TGGGTTCTGGCATGCTGATTT	mir-23	22	0	0	44	
744	t0659411	21	34	GAAAAGTTCGTTGGGTTTTT	bta-miR-2284k	21	
745	GAAAAGTTCGGTTCGGGTTTTT	mir-2284	19	2	0	36	
746	t0659465	20	34	AAAAGTTCTTCGGGTTTTT	bta-miR-2284y	21	
747	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	1	34	
748	t0660141	21	30	AAAAAGTTCGTTGGGTTTTTC	bta-miR-2284d	22	

749	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	1	1	36	
750	t0660781 21 27 AAAGAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21				
751	AAAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	2	31	
752	t0660971 24 26 TAATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23				
753	TAATACTGCCTGGTAATGATGAC	mir-8	23	0	1	43	
754	t0660987 22 26 CTATACAACCTACTGCCTTCCT	hsa-let-7b-3p	22				
755	CTATACAACCTACTGCCTTCCC	let-7	21	1	0	41	
756	t0661649 21 24 AAGAGTTCGTTTCGGGTTTTTC	bta-miR-2284y	21				
757	AAAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	0	39	
758	t0662217 21 22 AAGAAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21				
759	AAAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	2	31	
760	t0662273 21 21 TGGGTTCTGGCATGCTGATT	hsa-miR-23b-5p	22				
761	TGGGTTCTGGCATGCTGATTT	mir-23	21	0	1	39	
762	t0662581 19 21 AAAACACGAACAACTTTT	bta-miR-2285y	21				AAAACCCAAACAACTTTTTT
763	mir-2284 17 2 2 26						
764	t0662815 20 20 GAAAGTTTGTGGGGTTTTT	bta-miR-2284a	20				
765	AAAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	0	34	
766	t0662939 19 20 AAAGTTCGTTTCGGGTTTTT	bta-miR-2284x	21				TGAAAAGTTCGTTTCGGGTTTTT
767	mir-2284 18 1 2 29						
768	t0663729 22 18 ATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23				
769	TAATACTGCCTGGTAATGATGAC	mir-8	21	0	3	33	
770	t0664981 21 16 AAAAGTTCGTTTCGGGTTTTTT	bta-miR-2284y	21				
771	AAAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	0	39	
772	t0665593 22 15 AAACGTTTCGTTTCAGGTTTTTCT	bta-miR-2284u	21				
773	AAAAAGTTCGTTTCGGTTTTTTCT	mir-2284	20	1	1	36	
774	t0665607 21 15 AAAAGTTCTTTCGGGTTTTTC	bta-miR-2284y	21				
775	AAAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	0	39	
776	t0666075 22 14 GAAAAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22				
777	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38	
778	t0666341 20 14 AAAAGTTCGTTCCGGTTTTT	bta-miR-2284y	21				
779	AAAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	1	34	
780	t0668013 20 12 AAAGAGTTCGTTTCAGGTTTTT	bta-miR-2284j	20				
781	GAAAAGTTCGTTTCAGGTTTTT	mir-2284	18	2	0	34	
782	t0668029 20 12 AAAAGTTCGTTTCGGTTTTT	bta-miR-2284g	20				
783	AAAAAGTTCGTTTCGGCTTTTTT	mir-2284	19	0	2	32	
784	t0668971 19 11 AAGAGTTCGTTTCGGGTTTTT	bta-miR-2284w	21				AAGAGTTTGTTCGGGTTTCTC
785	mir-2284 18 1 2 29						
786	t0668973 19 11 AAGAGTTCGTTTCAGGTTTTT	bta-miR-2284j	20				GAAAAGTTCGTTTCAGGTTTTT
787	mir-2284 18 1 1 32						
788	t0669023 19 11 AAAGTTCGTTTCAGGTTTTT	bta-miR-2284j	20				GAAAAGTTCGTTTCAGGTTTTT
789	mir-2284 18 1 1 32						
790	t0669215 21 10 TGGCTCTGTGAGGTCGGCTCA	eca-miR-1842	21				
791	TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	0	42	
792	t0669927 20 10 GAAAAGTTCGTTTGGGTTTTT	bta-miR-2284x	21				

793	TGAAAAGTTCGTTCCGGGTTTT	mir-2284	19	1	1	34
794	t0671165	21	9	TCAGGGAGCTCACAGTCTAGT	mmu-miR-151-5p	21
795	TCGAGGAGCTCACAGTCTAGT	mir-28	19	2	0	36
796	t0671979	22	9	AAAAAGTTCGTTCCAGGTTTTTT	bta-miR-2284u	21
797	AAAAGTTCGTTCCGGTTTTTCT	mir-2284	20	0	3	31
798	t0673259	22	8	CCAAACCAGTTGTCCTGTAGA	hsa-miR-6715a-3p	21
799	CCAAACCAGTCGTGCCTGTGG	mir-6715	19	2	1	33
800	t0673367	22	8	ATCATGTATGATACTGCAAACA	hsa-miR-6516-3p	22
801	ATCATGTATGATACTGCAAACA	mir-6516	22	0	0	44
802	t0673629	22	8	AATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23
803	TAATACTGCCTGGTAATGATGAC	mir-8	22	0	1	41
804	t0673799	20	8	AAAAGTTCTTTCAGGTTTTT	bta-miR-2284y	21
805	AAAAGTTCGTTCCGGTTTTTC	mir-2284	18	2	1	31
806	t0674415	22	7	TGCAGGATCTTTAGTTGTGGTG	bta-miR-3432	22
807	TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	0	41
808	t0676113	21	7	AAGAGTTCGTTCCAGGTTTTTC	bta-miR-2284y	21
809	AAAAGTTCGTTCCGGTTTTTC	mir-2284	19	2	0	36
810	t0676195	21	7	AAAGTTCGTTCCAGGTTTTTC	bta-miR-2284y	21
811	AAAAGTTCGTTCCGGTTTTTC	mir-2284	19	2	0	36
812	t0676347	22	7	AAAACCGAACGAACCTTTGGGC	bta-miR-2285aa	23
813	AAAACCGAACGAACCTTTGGGC	mir-2284	21	1	1	38
814	t0677557	22	6	TGAAAAGTTCGTTGGGTTTTT	bta-miR-2284x	21
815	TGAAAAGTTCGTTCCGGTTTTT	mir-2284	20	1	1	36
816	t0677783	22	6	TCAAGGTCGCTGTGAACACGG	gga-miR-124c-3p	22
817	TCAAGGTCGCTGTGAACACGG	mir-124	22	0	0	44
818	t0678267	21	6	GAAAGTTTGTGGGTTTTTC	bta-miR-2284a	20
819	AAAAGTTCGTTGGGTTTTT	mir-2284	18	2	1	31
820	t0678651	22	6	ATGAGGATCTTTAGTTGTGGT	bta-miR-3432	22
821	TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	1	2	33
822	t0679479	20	6	AAAGAGTTCGTTGGGTTTTT	bta-miR-2284c	20
823	AAAAAGTTCGTTTTGGTTTTT	mir-2284	18	2	0	34
824	t0679481	22	6	AAAGAGTTCGTTCCAGGTTTTTC	bta-miR-2284y	21
825	AAAAGTTCGTTCCGGTTTTTC	mir-2284	20	1	1	36
826	t0679485	22	6	AAAGAAGTTTGTGGGTTTTT	bta-miR-2284z	22
827	AAAAAAGTTTGTGGGTTTTT	mir-2284	21	1	0	41
828	t0679613	21	6	AAAAAGTTCGTTTAGTTTTTT	bta-miR-2284b	21
829	AAAAGTTCGTTGGTTTTTTC	mir-2284	19	1	2	31
830	t0680525	20	5	TGCGGGATCTTTCGTTGTGG	bta-miR-3432	22
831	TGCGGGATCTTTAGTTGTGGTG	mir-3432	19	1	2	31
832	t0680547	23	5	TGCAGGATCTTTAGTTGTGGTGT	bta-miR-3432	22
833	TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	1	38
834	t0683839	20	5	AAATGTTTCGTTCCAGGTTTTT	bta-miR-2284y	21
835	AAAAGTTCGTTCCGGTTTTTC	mir-2284	18	2	1	31
836	t0683967	22	5	AAAGCTGAACAAGCTTTTTGGC	bta-miR-2285c	22

837	AAACCTGAACAAACTTTTTGGC	mir-2284	20	2	0	38	
838	t0684047	21 5 AAAAGTTCGTTTCGGTTTTTC	bta-miR-2284u	21			
839	AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	0	2	34	
840	t0684049	21 5 AAAAGTTCGTTTCAGGTTTTTT	bta-miR-2284u	21			
841	AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	0	2	34	
842	t0684053	20 5 AAAAGTTCGTTTCGGGTTTT	bta-miR-2284y	21			
843	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	0	3	29	
844	t0684677	20 4 TGGGTTCTGGCATGCTGAT	hsa-miR-23b-5p	22			
845	TGGGTTCTGGCATGCTGATTT	mir-23	20	0	2	34	
846	t0684935	19 4 TGGCTCTGTGAGGTCGGCT	eca-miR-1842	21			TGGCTCTGTGAGGTCGGCTCA
847	mir-1842	19 0 2 32					
848	t0687485	21 4 TACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23			
849	TAATACTGCCTGGTAATGATGAC	mir-8	20	0	4	28	
850	t0689317	21 4 ATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23			
851	TAATACTGCCTGGTAATGATGAC	mir-8	21	0	2	36	
852	t0690209	21 4 ACAAAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21			
853	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	2	31	
854	t0690263	21 4 AATAAGTTCGTTTGGGTTTTT	bta-miR-2284a	20			
855	AAAAGTTCGTTGGGGTTTTT	mir-2284	19	1	1	34	
856	t0690423	22 4 AAGAAGTTCGTTTCAGGTTTTTC	bta-miR-2284y	21			
857	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	1	36	
858	t0690807	19 4 AAACGTTTCGTTTCAGGTTTT	bta-miR-2284j	20			GAAAAGTTCGTTTCAGGTTTT
859	mir-2284	18 1 1 32					
860	t0690891	22 4 AAAAGTTCTTTCAGGTTTTTCT	bta-miR-2284u	21			
861	AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	1	1	36	
862	t0691069	21 4 AAAAAGTTCGTTTGGATTTTT	bta-miR-2284d	22			
863	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	19	2	1	33	
864	t0691071	22 4 AAAAAGTTCGTTTCGGTTTTTC	bta-miR-2284d	22			
865	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38	
866	t0691073	21 4 AAAAAGTTCGTTTCGGTTTTT	bta-miR-2284c	20			
867	AAAAAGTTCGTTTTGGTTTTT	mir-2284	19	1	1	34	
868	t0691075	23 4 AAAAAGTTCGTTTCAGGTTTTTCA	bta-miR-2284d	22			
869	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	1	35	
870	t0698209	22 3 GAAAGTTTGTGGGGTTTTTCT	bta-miR-2284a	20			
871	AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	2	28	
872	t0698211	19 3 GAAAGTTTGTGGGGTTTTT	bta-miR-2284m	20			GAAAAGTTTGTTCGGGTTTT
873	mir-2284	18 1 1 32					
874	t0698213	19 3 GAAAGTTGTTTGGATTTTT	bta-miR-2284p	21			TGAAAGTTTGTTCGGGATTTTT
875	mir-2284	17 2 2 26					
876	t0699637	21 3 CAAACCAGTTGTGCCTGTAGA	hsa-miR-6715a-3p	21			
877	CCAAACCAGTCGTGCCTGTGG	mir-6715	18	2	2	28	
878	t0699951	24 3 ATCACATTGCCAGGGATTACCACG	ptr-miR-23b	23			
879	ATCACATTGCCAGGGATTACCAC	mir-23	23	0	1	43	
880	t0700013	20 3 ATAAATTCGTTTGGATTTTT	bta-miR-2284f	20			

881	AAAGTTCGTTTCGATTTTTTC	mir-2284	17	2	2	26	
882	t0700947	21 3 AGAAAGTTTGTGGGGTTTTT	bta-miR-2284a	20			
883	AAAAGTTCGTTGGGGTTTTT	mir-2284	19	1	1	34	
884	t0701639	23 3 AATGTGGAAGTGGTCTGAGGCAT	hsa-miR-4657	23			
885	AATGTGGAAGTGGTCTGAGGCAT	undef	23	0	0	46	
886	t0701739	23 3 AATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23			
887	TAATACTGCCTGGTAATGATGAC	mir-8	22	0	2	38	
888	t0702067	20 3 AAGAAGTTCGTTTCAGGTTTT	bta-miR-2284j	20			
889	GAAAAGTTCGTTTCAGGTTTT	mir-2284	18	2	0	34	
890	t0702683	19 3 AAAGAGTTCGTTTCAGGTTT	bta-miR-2284j	20			GAAAAGTTCGTTTCAGGTTTT
891	mir-2284	17 2 1 29					
892	t0702809	23 3 AAACCTGAACAAACTTTTTGGCA	bta-miR-2285c	22			
893	AAACCTGAACAAACTTTTTGGC	mir-2284	22	0	1	41	
894	t0702827	21 3 AAAATGTTTCGCTTGGCTTTTT	bta-miR-2284ac	22			
895	AAATGTTTCGCTTGGCTTTTTCC	mir-2284	20	0	3	31	
896	t0702839	22 3 AAAAGTTCGTTTGGGTTTTTCA	bta-miR-2284b	21			
897	AAAAGTTCGTTTGGTTTTTTC	mir-2284	20	1	1	36	
898	t0702843	20 3 AAAAGTTCGTTTCGGGTTTT	bta-miR-2284y	21			
899	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	1	34	
900	t0703109	21 3 AAAAAGTTCGTTTGGGTTTTA	bta-miR-2284c	20			
901	AAAAAGTTCGTTTTGGTTTT	mir-2284	19	1	1	34	
902	t0703111	20 3 AAAAAGTTCGTTTCGGTTTT	bta-miR-2284c	20			
903	AAAAAGTTCGTTTTGGTTTT	mir-2284	19	1	0	37	
904	t0703115	21 3 AAAAAGTTCGTTTCAGGTTTTA	bta-miR-2284j	20			
905	GAAAAGTTCGTTTCAGGTTTT	mir-2284	19	1	1	34	
906	t0703119	22 3 AAAAAGTTCATTGGGTTGTCT	bta-miR-2284c	20			
907	AAAAAGTTCGTTTTGGTTTT	mir-2284	18	2	2	28	
908	t0703121	20 3 AAAAAGTTCGTTTGGGTTTT	bta-miR-2284v	20			
909	AAAAAGTTCGTTTGGGTTTT	undef	18	2	0	34	
910	t0703361	21 2 TTGGCTCTGTGAGGTCGGCTC	eca-miR-1842	21			
911	TGGCTCTGTGAGGTCGGCTCA	mir-1842	20	0	2	34	
912	t0706425	22 2 TGGCTCTGTGAGGTCGGCTCAA	eca-miR-1842	21			
913	TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	1	39	
914	t0708957	21 2 TGAGTGTGTGTGTGTGAGTGA	hsa-miR-574-5p	23			
915	TGAGTGTGTGTGTGTGAGTGTGT	mir-574	20	1	2	33	
916	t0714349	20 2 TCAGGGAGCTCACAGTCTAG	ggo-miR-151a	20			
917	TCGAGGAGCTCACAGTCTAG	mir-28	18	2	0	34	
918	t0717081	21 2 TAAAGTTCATTGGGTTTTTTT	bta-miR-2284n	21			
919	AAAAAGTTTATTCGGGTTTTT	mir-2284	18	2	2	28	
920	t0719081	21 2 GAAAGTTGGTTTGGATTTTTT	bta-miR-2284f	20			
921	AAAGTTCGTTTCGATTTTTT	mir-2284	18	2	1	31	
922	t0719939	22 2 CGTGGGACAGAGTGAAGGAGG	bta-miR-6528	20			
923	AGAGGGAAGAGGGAAGGAGG	undef	18	2	2	28	
924	t0722919	21 2 ATGTCACTCGCCCACTACCC	oar-miR-668-3p	21			

925			ATGTCACCTCGGCCACTACCC	mir-668	21	0	0	42		
926	t0723041	21	2	ATGAGGGATCTTTAGTTGTGG	bta-miR-3432			22		
927			TGCGGGATCTTTAGTTGTGGTG	mir-3432	19	1	3	28		
928	t0727877	20	2	ACAAAGTTTGTTCGGGTTTT	bta-miR-2284m			20		
929			GAAAAGTTTGTTCGGGTTTT	mir-2284	18	2	0	34		
930	t0727925	19	2	AATGTTTCGTTTCAGGTTTTT	bta-miR-2284y	21			AAAAGTTCGTTTCGGGTTTTTC	
931			mir-2284	17	2	2	26			
932	t0728157	21	2	AATAAATTCGTTTGGATTTTT	bta-miR-2284b			21		
933			AAAAGTTCGTTTGGTTTTTC	mir-2284	18	2	2	28		
934	t0728201	19	2	AAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21			AAAAGTTCGTTTCGGGTTTTTC	
935			mir-2284	17	2	2	26			
936	t0728693	20	2	AAGAGTTCGTTTGGGTTTTT	bta-miR-2284a			20		
937			AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	0	34		
938	t0729001	20	2	AAGAAGTTCGTTTGGGTTTT	bta-miR-2284c			20		
939			AAAAAGTTCGTTTGGTTTT	mir-2284	18	2	0	34		
940	t0730047	18	2	AAAGTTCGTTTCGGGTTT	bta-miR-2284h-5p			21		
941			CCCAAAGTTCGTTTCGGGTTT	mir-2284	17	1	3	24		
942	t0730535	20	2	AAAGCCCAATGAACTTTTT	bta-miR-2285ad			22		
943			AAAACCCAAATGAACTTTTTGG	mir-2284	19	1	2	31		
944	t0730577	22	2	AAAGAGTTCGTTTGGGTTTTTC	bta-miR-2284d			22		
945			AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38		
946	t0730665	21	2	AAACGTTTCGTTTCAGGTTTTTC	bta-miR-2284y			21		
947			AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2	0	36		
948	t0730997	19	2	AAAAGTTCGTTTCCGGTTTT	bta-miR-2284c	20			AAAAAGTTCGTTTGGTTTT	
949			mir-2284	18	1	1	32			
950	t0731003	21	2	AAAAGTTCGTTTCGGGTTTTTC	bta-miR-2284y			21		
951			AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	0	39		
952	t0731005	21	2	AAAAGTTCGTTCCGGTTTTTC	bta-miR-2284y			21		
953			AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	0	39		
954	t0731007	19	2	AAAAGTTCGTTCCGGTTTT	bta-miR-2284j	20			GAAAAGTTCGTTTCAGGTTTT	
955			mir-2284	18	1	1	32			
956	t0731009	21	2	AAAAGTTCGTTTCAGGTTTTTA	bta-miR-2284y			21		
957			AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2	0	36		
958	t0731415	22	2	AAAACGTTTCGTTTCAGGTTTTTC	bta-miR-2284y			21		
959			AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	1	36		
960	t0731417	21	2	AAAACGTTTCGTTTCAGGTTTTT	bta-miR-2284y			21		
961			AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	2	31		
962	t0731443	21	2	AAAACCCGAATGAACTTTTTG	bta-miR-2285k			21		
963			AAAACCCGAATGAACTTTTTG	mir-2284	20	1	0	39		
964	t0731471	22	2	AAAAAGTTCGTTTAGGTTTTTC	bta-miR-2284d			22		
965			AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38		
966	t0731473	21	2	AAAAAGTTCGTTTAGGTTTTT	bta-miR-2284c			20		
967			AAAAAGTTCGTTTGGTTTTT	mir-2284	19	1	1	34		
968	t0731491	21	2	AAAAAGTTCGTTTGGGTTTTTC	bta-miR-2284d			22		

969	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	19	2	1	33	
970	t0733347 22 1 TTGGCTCTGTGAGGTCGGCTCA	eca-miR-1842	21	0	1	39	21
971	TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	1	39	
972	t0733349 20 1 TTGGCTCTGTGAGGTCGGCT	eca-miR-1842	21	0	3	29	21
973	TGGCTCTGTGAGGTCGGCTCA	mir-1842	19	0	3	29	
974	t0752205 20 1 TGGCTCTGTGAGGTCGGCTC	eca-miR-1842	21	0	1	37	21
975	TGGCTCTGTGAGGTCGGCTCA	mir-1842	20	0	1	37	
976	t0764821 19 1 TCGGGATCTTTCGTTGTG	bta-miR-3432	22	18	1	3	26
977	TCGGGATCTTTCGTTGTG	mir-3432	18	1	3	26	
978	t0810693 20 1 TAAAGTTCATTCGGGTTTT	bta-miR-2284y	21	2	1	31	21
979	AAAAAGTTCGTTTCGGGTTTTTC	mir-2284	18	2	1	31	
980	t0811363 22 1 TAAAAAGTTCGTTGGGTTTTTC	bta-miR-2284d	22	1	2	33	22
981	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	1	2	33	
982	t0813009 21 1 GTGAGGACTCGGAGGTGGAA	bta-miR-1224	21	1	0	39	21
983	GTGAGGACTCGGAGGTGGAG	mir-1224	20	1	0	39	
984	t0823105 22 1 GCTAAAAAGTTCGTTGGGTTT	bta-miR-2284v	20	19	0	4	26
985	AAAAAGTTCGTTGGGTTT	undef	19	0	4	26	
986	t0834233 19 1 GAAAGTTCGTTTCGGGTTTT	bta-miR-2284x	21	19	0	2	32
987	mir-2284	19	0	2	32		
988	t0842479 22 1 CTAAAAAGTTCGTTGGGTTTT	bta-miR-2284aa	21	19	2	1	33
989	AAAAAGTTCGTTGGGTTTT	mir-2284	19	2	1	33	
990	t0856133 21 1 CCAAAGTTCGTTTCGGGTTTT	bta-miR-2284y	21	1	2	31	21
991	AAAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	2	31	
992	t0858465 21 1 CAGGGCTGGCAGGTATGGG	ptr-miR-4446	21	2	2	28	21
993	CAGGGCTGGCAGGTATGGG	mir-4446	18	2	2	28	
994	t0862879 21 1 CACAATACACGGTCGGCCTCT	oar-miR-323c	21	0	0	42	21
995	CACAATACACGGTCGGCCTCT	mir-154	21	0	0	42	
996	t0863689 21 1 CAAGGTCCGCTGTGAACACGG	gga-miR-124c-3p	22	21	0	1	39
997	TCAAGGTCCGCTGTGAACACGG	mir-124	21	0	1	39	
998	t0869045 24 1 ATGAGGGATCTTTCGTTGGTAT	bta-miR-3432	22	20	2	2	32
999	TGCGGGATCTTTCGTTGGTAT	mir-3432	20	2	2	32	
1000	t0869047 23 1 ATGAGGGATCTTTCGTTGGTA	bta-miR-3432	22	20	2	1	35
1001	TGCGGGATCTTTCGTTGGTA	mir-3432	20	2	1	35	
1002	t0873795 23 1 ATACTGCCTGGTAATGATGACGC	rno-miR-200b-3p	23	21	0	4	30
1003	TAATACTGCCTGGTAATGATGAC	mir-8	21	0	4	30	
1004	t0874131 22 1 ATAAGTTCGTTGGGTTTTTC	bta-miR-2284b	21	19	2	1	33
1005	AAAAAGTTCGTTGGGTTTTTC	mir-2284	19	2	1	33	
1006	t0903513 21 1 ACATTGCCAGGGATTACCACG	ptr-miR-23b	23	20	0	4	28
1007	ATCACATTGCCAGGGATTACCAC	mir-23	20	0	4	28	
1008	t0907195 21 1 ACAAAGTTTGTTCGGGTTTT	bta-miR-2284n	21	19	2	0	36
1009	AAAAAGTTTATTCGGGTTTT	mir-2284	19	2	0	36	
1010	t0907197 20 1 ACAAAGTTCGTTTCAGGTTTT	bta-miR-2284j	20	18	2	0	34
1011	GAAAAGTTCGTTTCAGGTTTT	mir-2284	18	2	0	34	
1012	t0907625 21 1 AATGTTTCGTTTCAGGTTTTCT	bta-miR-2284u	21	19	0	0	0

1013	AAAAGTTCGTTTCGGTTTTTCT	mir-2284	19	1	2	31	
1014	t0909545 20 1 AATAAGTTCGTTTGGGTTTT	bta-miR-2284c	20				20
1015	AAAAAGTTCGTTTTGGTTTT	mir-2284	18	2	0	34	
1016	t0909551 22 1 AATAAGTTCGTTTCAGGTTTTTC	bta-miR-2284y	22				21
1017	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	1	36	
1018	t0909553 21 1 AATAAGTTCGTTTCAGGTTTT	bta-miR-2284y	21				21
1019	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	2	31	
1020	t0909555 20 1 AATAAGTTCGTTTCAGGTTTT	bta-miR-2284j	20				20
1021	GAAAAGTTCGTTTCAGGTTTT	mir-2284	18	2	0	34	
1022	t0910269 18 1 AAGGTTTCGTTTCAGGTTTT	bta-miR-2284j	18				20
1023	mir-2284 17 1 2 27						
1024	t0916021 21 1 AAGAAGTTCGTTTGGGTTTT	bta-miR-2284a	21				20
1025	AAAAGTTCGTTGGGGTTTT	mir-2284	19	1	1	34	
1026	t0916033 19 1 AAGAAGTTCGTTTCAGGTTT	bta-miR-2284j	19				20
1027	mir-2284 17 2 1 29						
1028	t0917423 24 1 AACTATAACAACCTACTGCCTTCCCT	hsa-let-7b-3p	24				22
1029	CTATAACAACCTACTGCCTTCCC	let-7	21	1	2	35	
1030	t0921735 22 1 AAATGTTTCGTTTCAGGTTTTTCT	bta-miR-2284u	22				21
1031	AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	1	1	36	
1032	t0921737 21 1 AAATGTTTCGTTTCAGGTTTTTC	bta-miR-2284y	21				21
1033	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2	0	36	
1034	t0922669 20 1 AAAGTTCGTTTCAGGTTTTTT	bta-miR-2284u	20				21
1035	AAAAGTTCGTTTCGGTTTTTCT	mir-2284	19	0	3	29	
1036	t0922673 19 1 AAAGTTCGTTTCAGGTTTTA	bta-miR-2284j	19				20
1037	mir-2284 18 0 3 27						
1038	t0923303 21 1 AAAGGTTTCGTTTGGGTTTTTC	bta-miR-2284b	21				21
1039	AAAAGTTCGTTTGGTTTTTTC	mir-2284	19	2	0	36	
1040	t0923305 20 1 AAAGGTTTCGTTTGGGTTTT	bta-miR-2284a	20				20
1041	AAAAGTTCGTTGGGGTTTT	mir-2284	18	2	0	34	
1042	t0923315 22 1 AAAGGTTTCGTTTCGGGTTTTTCT	bta-miR-2284u	22				21
1043	AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	1	1	36	
1044	t0923325 21 1 AAAGGTTTCGTTTCAGGTTTTTT	bta-miR-2284u	21				21
1045	AAAAGTTCGTTTCGGTTTTTCT	mir-2284	19	1	2	31	
1046	t0923331 18 1 AAAGGTTTCGTTTCAGGTTT	bta-miR-2284j	18				20
1047	mir-2284 17 1 2 27						
1048	t0925755 20 1 AAAGCTGAACAAGCTTTTTG	bta-miR-2285g	20				21
1049	AAACCTGAACAAGCTTTTTGG	mir-2284	19	1	1	34	
1050	t0926837 21 1 AAAGAAGTTTGTGGGTTTT	bta-miR-2284aa	21				21
1051	AAAAAAGTTTGTGGGTTTT	mir-2284	20	1	0	39	
1052	t0926839 20 1 AAAGAAGTTTGTGGGTTT	bta-miR-2284aa	20				21
1053	AAAAAAGTTTGTGGGTTTT	mir-2284	19	1	1	34	
1054	t0928423 23 1 AAACCTGAATGAACTTTTGGCA	bta-miR-2285e	23				22
1055	AAACCTGAACGAACTTTTGGC	mir-2284	21	1	1	38	
1056	t0929041 22 1 AAAATGTTTGGATGTTTT	bta-miR-2284z	22				22

1057	AAAAAAGTTTGTGGGTTTTT	mir-2284	19	2	2	30	
1058	t0929043	21	1	AAAATGTTTGGATGTTT	bta-miR-2284aa	21	
1059	AAAAAAGTTTGTGGGTTTTT	mir-2284	18	2	2	28	
1060	t0929215	22	1	AAAAGTTCTTCGGGTTTTTCT	bta-miR-2284u	21	
1061	AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	1	1	36	
1062	t0929217	19	1	AAAAGTTCTTCGGGTTTTT	bta-miR-2284x	21	TGAAAAGTTCGTTTCGGGTTTT
1063	mir-2284	18	1	2	29		
1064	t0929219	18	1	AAAAGTTCTTCGGGTTT	bta-miR-2284v	20	AAAAAGTTCGTTTGGGGTTT
1065	undef	17	1	2	27		
1066	t0929229	19	1	AAAAGTTCTTCAGGTTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
1067	mir-2284	18	1	1	32		
1068	t0929231	18	1	AAAAGTTCTTCAGGTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
1069	mir-2284	17	1	2	27		
1070	t0929249	21	1	AAAAGTTCGTTTGGGTTTTTA	bta-miR-2284b	21	
1071	AAAAGTTCGTTTGGTTTTTTC	mir-2284	19	2	0	36	
1072	t0929251	20	1	AAAAGTTCGTTTGGGTTTTC	bta-miR-2284b	21	
1073	AAAAGTTCGTTTGGTTTTTTC	mir-2284	19	1	1	34	
1074	t0929259	20	1	AAAAGTTCGTTTAGGTTTTT	bta-miR-2285ae	22	
1075	AGAAAGTTCATTTAGGTTTTTC	mir-2284	19	1	2	31	
1076	t0929261	19	1	AAAAGTTCGTTCTGGTTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
1077	mir-2284	18	1	1	32		
1078	t0929273	21	1	AAAAGTTCGTTTCGGGTTTTCC	bta-miR-2284y	21	
1079	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	0	39	
1080	t0929275	20	1	AAAAGTTCGTTTCGGGTTTTC	bta-miR-2284y	21	
1081	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	0	1	37	
1082	t0929283	19	1	AAAAGTTCGTTTCGGGTTTT	bta-miR-2284v	20	AAAAAGTTCGTTTGGGGTTT
1083	undef	18	1	1	32		
1084	t0929289	18	1	AAAAGTTCGTTCCGGTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
1085	mir-2284	17	1	2	27		
1086	t0929297	22	1	AAAAGTTCGTTTCAGGTTTTTCA	bta-miR-2284u	21	
1087	AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	1	1	36	
1088	t0929301	20	1	AAAAGTTCGTTTCAGGTTTTT	bta-miR-2284j	20	
1089	GAAAAGTTCGTTTCAGGTTTTT	mir-2284	19	0	2	32	
1090	t0929319	22	1	AAAAGTTCATTAGGTTTTTCT	bta-miR-2284d	22	
1091	AAAAAGTTCGTTTAGGTTTTTTC	mir-2284	20	1	2	33	
1092	t0929441	20	1	AAAAGGTTTCGTTTGGGTTTT	bta-miR-2284c	20	
1093	AAAAAGTTCGTTTGGTTTTT	mir-2284	18	2	0	34	
1094	t0929443	21	1	AAAAGGTTTCGTTTCGGTTTTT	bta-miR-2284y	21	
1095	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	0	2	34	
1096	t0931589	22	1	AAAACCCGAATGAACTTTTTGG	bta-miR-2285ad	22	
1097	AAAACCCAAATGAACTTTTTGG	mir-2284	21	1	0	41	
1098	t0931863	20	1	AAAAAGTTCGTTTAGTTTTT	bta-miR-2284c	20	
1099	AAAAAGTTCGTTTTGGTTTTT	mir-2284	18	2	0	34	
1100	t0931875	21	1	AAAAAGTTCGTTCCGGTTTTT	bta-miR-2284d	22	

1101			AAAAAGTTCGTTAGGGTTTTTC	mir-2284	19	2	1	33	
1102	t0931877	20	1	AAAAAGTTCGTTCCGGTTTT	bta-miR-2284c	20			
1103				AAAAAGTTCGTTTTGGTTTT	mir-2284	18	2	0	34
1104	t0931885	24	1	AAAAAGTTCGTTCAAGTTTTTCAA	bta-miR-2284d	22			
1105				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	2	32
1106	t0931889	22	1	AAAAAGTTCGTTCAAGTTTTTA	bta-miR-2284y	21			
1107				AAAAGTTCGTTCCGGTTTTTC	mir-2284	19	2	1	33
1108	t0931903	20	1	AAAAAGTTCGTTCAAGGGTTT	bta-miR-2284d	22			
1109				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	19	0	4	26
1110	t0932215	20	1	AAAAACCAATGAACTTTTT	bta-miR-2285j	22			
1111				AAAAACCAGAACGAACTTTTG	mir-2284	19	1	2	31
1112									
1113									
1114	Novel miRNAs identified in the <i>S. agalactiae</i> group								
1115									
1116	t0004597	20	94	AAGAGTTCGTTCCGGTTTTT	bta-miR-2284y	21			
1117				AAAAGTTCGTTCCGGTTTTTC	mir-2284	19	1	1	34
1118	t0004931	20	86	AAGAGTTCGTTCAAGTTTTT	bta-miR-2284y	21			
1119				AAAAGTTCGTTCCGGTTTTTC	mir-2284	18	2	1	31
1120	t0005829	23	71	TAATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23			
1121				TAATACTGCCTGGTAATGATGAC	mir-8	23	0	0	46
1122	t0007315	22	53	TGCGGGATCTTTAGTTGTGGTA	bta-miR-3432	22			
1123				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	0	41
1124	t0007759	21	50	AAGAAGTTCGTTCAAGTTTTT	bta-miR-2284y	21			
1125				AAAAGTTCGTTCCGGTTTTTC	mir-2284	19	1	2	31
1126	t0008447	21	45	AAGAGTTCGTTCCGGTTTTTC	bta-miR-2284y	21			
1127				AAAAGTTCGTTCCGGTTTTTC	mir-2284	20	1	0	39
1128	t0010103	23	36	TGCGGGATCTTTAGTTGTGGTAT	bta-miR-3432	22			
1129				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	1	38
1130	t0010501	22	35	AAAAAGTTCGTTGGGTTTTCT	bta-miR-2284z	22			
1131				AAAAAAGTTTGTGGTTTTT	mir-2284	20	1	2	33
1132	t0012903	20	27	AAAGTTCGTTCCGGTTTTT	bta-miR-2284y	21			
1133				AAAAGTTCGTTCCGGTTTTTC	mir-2284	19	1	1	34
1134	t0013313	20	26	AAGAAGTTCGTTCAAGTTTTT	bta-miR-2284j	20			
1135				GAAAAGTTCGTTCAAGTTTTT	mir-2284	18	2	0	34
1136	t0013689	21	25	CCAAACCAGTTGTGCCTGTAG	hsa-miR-6715a-3p	21			
1137				CCAAACCAGTCGTGCCTGTGG	mir-6715	19	2	0	36
1138	t0014149	22	24	CTATACAACCTACTGCCTTCCT	hsa-let-7b-3p	22			
1139				CTATACAACCTACTGCCTCCC	let-7	21	1	0	41
1140	t0014863	22	22	TGGGTTCTGGCATGCTGATTT	hsa-miR-23b-5p	22			
1141				TGGGTTCTGGCATGCTGATTT	mir-23	22	0	0	44
1142	t0015399	21	22	AAAAAGTTCGTTGGGTTTTTC	bta-miR-2284d	22			
1143				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	1	1	36

1144	t0017445	20	19	AAAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21	
1145	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	18	2	1	31	
1146	t0020049	19	16	AAGAGTTCGTTTCAGGTTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
1147	mir-2284	18	1	1	32		
1148	t0020079	21	16	AAAGTTCGTTTCGGGTTTTTC	bta-miR-2284y	21	
1149	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	0	39	
1150	t0021079	21	15	AATAAGTTCGTTTGGGTTTTT	bta-miR-2284a	20	
1151	AAAAGTTCGTTGGGGTTTTT	mir-2284	19	1	1	34	
1152	t0022411	19	14	AAAGTTCGTTTCAGGTTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
1153	mir-2284	18	1	1	32		
1154	t0025505	20	12	AAAAGTTCGTCAGGTTTTT	bta-miR-2284y	21	
1155	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	18	2	1	31	
1156	t0027325	19	11	AAGAGTTCGTTTCGGGTTTT	bta-miR-2284w	21	AAGAGTTTGTTCGGGTTTCTC
1157	mir-2284	18	1	2	29		
1158	t0027625	21	10	TGGGTTCTGGCATGCTGATT	hsa-miR-23b-5p	22	
1159	TGGGTTCTGGCATGCTGATTT	mir-23	21	0	1	39	
1160	t0027695	21	10	TGGCTCTGTGAGGTCGGCTCA	eca-miR-1842	21	
1161	TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	0	42	
1162	t0028663	22	10	TGAAAAGTTCGTTTGGGTTTTT	bta-miR-2284x	21	
1163	TGAAAAGTTCGTTTCGGGTTTTT	mir-2284	20	1	1	36	
1164	t0029611	21	10	AATAAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21	
1165	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	2	31	
1166	t0029679	22	10	AAGAAGTTCGTTTCAGGTTTTTC	bta-miR-2284y	21	
1167	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	1	36	
1168	t0030469	23	9	TGCTGGATCTTTAGTTGTGGTGT	bta-miR-3432	22	
1169	TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	1	38	
1170	t0030471	22	9	TGCTGGATCTTTAGTTGTGGTG	bta-miR-3432	22	
1171	TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	0	41	
1172	t0032559	19	9	AAAGTTCGTTTCGGGTTTT	bta-miR-2284x	21	TGAAAAGTTCGTTTCGGGTTTT
1173	mir-2284	18	1	2	29		
1174	t0035387	22	8	CCAAACCAGTTGTCCTGTAGA	hsa-miR-6715a-3p	21	
1175	CCAAACCAGTCGTCCTGTGG	mir-6715	19	2	1	33	
1176	t0035545	22	8	ATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23	
1177	TAATACTGCCTGGTAATGATGAC	mir-8	21	0	3	33	
1178	t0036141	21	8	AAAGAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21	
1179	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	2	31	
1180	t0040361	21	7	AAGAGTTCGTTTCAGGTTTTTC	bta-miR-2284y	21	
1181	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2	0	36	
1182	t0040497	20	7	AACAAGTTCGTTTGGGTTTTT	bta-miR-2284c	20	
1183	AAAAAGTTCGTTTTGGTTTTT	mir-2284	18	2	0	34	
1184	t0040583	21	7	AAAAGTTCGTTTCGGGTTTTTT	bta-miR-2284y	21	
1185	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	0	39	
1186	t0043461	23	6	TGAGGGATCTTTAGTTGTGGTAT	bta-miR-3432	22	
1187	TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	2	1	35	

1188	t0044357	24	6	TAATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23	
1189				TAATACTGCCTGGTAATGATGAC	mir-8	23	0 1 43
1190	t0044447	21	6	TAAAAGTTTGGTTGGGTTTTT	bta-miR-2284ab	21	
1191				TAAAAGTTTGGTTGGGTTTTT	mir-2284	20	1 0 39
1192	t0046283	19	6	AAGAAGTTCGTTTCAGGTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
1193				mir-2284	17	2 1 29	
1194	t0046387	22	6	AACAAGTTCGTTTGGGTTTTCT	bta-miR-2284u	21	
1195				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	19	2 1 33
1196	t0046481	20	6	AAAAGTTCGTTTCGGGTTTTT	bta-miR-2284y	21	
1197				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	0 3 29
1198	t0051817	20	5	TAAAAGTTTGGTTGGGTTTTT	bta-miR-2284ab	21	
1199				TAAAAGTTTGGTTGGGTTTTT	mir-2284	19	1 1 34
1200	t0052083	20	5	GAAAAGTTTGGTTGGGTTTTT	bta-miR-2284a	20	
1201				AAAAGTTCGTTGGGTTTTT	mir-2284	18	2 0 34
1202	t0054149	20	5	AATAAGTTCGTTTGGGTTTTT	bta-miR-2284c	20	
1203				AAAAAGTTCGTTTTGGTTTTT	mir-2284	18	2 0 34
1204	t0054669	20	5	AAAGAGTTCGTTTCAGGTTTTT	bta-miR-2284j	20	
1205				GAAAAGTTCGTTTCAGGTTTTT	mir-2284	18	2 0 34
1206	t0054729	21	5	AAAAGTTCGTTTCAGGTTTTTT	bta-miR-2284u	21	
1207				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	0 2 34
1208	t0054863	22	5	AAAAAGTTCGTTTCAGGTTTTTT	bta-miR-2284u	21	
1209				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	0 3 31
1210	t0054865	22	5	AAAAAGTTCGTTTCAGGTTTTTA	bta-miR-2284y	21	
1211				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2 1 33
1212	t0055891	20	4	TGGGTTCTGGCATGCTGAT	hsa-miR-23b-5p	22	
1213				TGGGTTCTGGCATGCTGATTT	mir-23	20	0 2 34
1214	t0066561	22	4	AATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23	
1215				TAATACTGCCTGGTAATGATGAC	mir-8	22	0 1 41
1216	t0066567	22	4	AATAAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22	
1217				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2 0 38
1218	t0066771	18	4	AAGAGTTCGTTTCGGGTTT	bta-miR-2284w	21	AAGAGTTTGTTCGGGTTTCTC
1219				mir-2284	17	1 3 24	
1220	t0067137	21	4	AAAGGTTTCGTTTCAGGTTTTTC	bta-miR-2284y	21	
1221				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2 0 36
1222	t0067555	19	4	AAAACACGAACAACTTTT	bta-miR-2285y	21	AAAACCCAAACAACTTTTTT
1223				mir-2284	17	2 2 26	
1224	t0067557	23	4	AAAAAGTTCGTTTCAGGTTTTTCA	bta-miR-2284d	22	
1225				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2 1 35
1226	t0067733	22	3	TTGGCTCTGTGAGGTCGGCTCA	eca-miR-1842	21	
1227				TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0 1 39
1228	t0077433	22	3	TGAGGGATCTTTAGTTGTGGTA	bta-miR-3432	22	
1229				TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	2 0 38
1230	t0077435	21	3	TGAGGGATCTTTAGTTGTGGT	bta-miR-3432	22	
1231				TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	1 1 36

1232	t0080295	24	3	TAGCACCATCTGAAATCGGTTATA	hsa-miR-29a-3p	22			
1233				TAGCACCATCTGAAATCGGTTA	mir-29	22	0	2	38
1234	t0080451	21	3	TACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23			
1235				TAATACTGCCTGGTAATGATGAC	mir-8	20	0	4	28
1236	t0081057	22	3	TAAAAAGTTCGTTTGGGTTTTC	bta-miR-2284d	22			
1237				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	1	2	33
1238	t0081059	21	3	TAAAAAGTTCGTTTGGGTTTT	bta-miR-2284aa	21			
1239				AAAAAGTTTGTGTTGGGTTTT	mir-2284	19	2	0	36
1240	t0081561	22	3	GCTAAAAAGTTCGTTTGGGTTT	bta-miR-2284v	20			
1241				AAAAAGTTCGTTTGGGGTTT	undef	19	0	4	26
1242	t0081913	22	3	GAAAGTTTGTGGGGTTTTTCT	bta-miR-2284a	20			
1243				AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	2	28
1244	t0085209	24	3	ATCACATTGCCAGGGATTACCACG	ptr-miR-23b	23			
1245				ATCACATTGCCAGGGATTACCAC	mir-23	23	0	1	43
1246	t0087589	23	3	AATGTGGAAGTGGTCTGAGGCAT	hsa-miR-4657	23			
1247				AATGTGGAAGTGGTCTGAGGCAT	undef	23	0	0	46
1248	t0087741	23	3	AATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23			
1249				TAATACTGCCTGGTAATGATGAC	mir-8	22	0	2	38
1250	t0087753	20	3	AATAAGTTCGTTTCAGGTTTT	bta-miR-2284j	20			
1251				GAAAAGTTCGTTTCAGGTTTT	mir-2284	18	2	0	34
1252	t0087755	19	3	AATAAGTTCGTTTCAGGTTTT	bta-miR-2284j	20			GAAAAGTTCGTTTCAGGTTTT
1253				mir-2284		17	2	1	29
1254	t0088197	20	3	AAGAGTTTGTTCGGGTTTTT	bta-miR-2284w	21			
1255				AAGAGTTTGTTCGGGTTTCTC	mir-2284	19	1	1	34
1256	t0088523	20	3	AAGAAGTTCGTTTGGGTTTT	bta-miR-2284c	20			
1257				AAAAAGTTCGTTTGGTTTTT	mir-2284	18	2	0	34
1258	t0088937	21	3	AACAAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22			
1259				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	19	2	1	33
1260	t0089375	22	3	AAAAGTTCGTTTGGGTTTTTCA	bta-miR-2284b	21			
1261				AAAAGTTCGTTTGGTTTTTTC	mir-2284	20	1	1	36
1262	t0089377	20	3	AAAAGTTCGTTCTGGTTTTT	bta-miR-2284y	21			
1263				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	1	34
1264	t0089737	22	3	AAAAAGTTCGTTTGGGTTTTTT	bta-miR-2284d	22			
1265				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38
1266	t0089745	22	3	AAAAACCTGAATGACCCTTTTG	bta-miR-2285f	22			
1267				AAAAACCTGAATGAACTTTTTGG	mir-2284	19	2	2	30
1268	t0111287	20	2	TGAGGGATCTTTAGTTGTGG	bta-miR-3432	22			
1269				TGCGGGATCTTTAGTTGTGGTG	mir-3432	19	1	2	31
1270	t0113859	21	2	TGAAAAGTTCGTTTGGGTTTT	bta-miR-2284x	21			
1271				TGAAAAGTTCGTTTCGGGTTTT	mir-2284	20	1	0	39
1272	t0116665	22	2	TCAAGTCCGCTGTGAACACGG	gga-miR-124c-3p	22			
1273				TCAAGTCCGCTGTGAACACGG	mir-124	22	0	0	44
1274	t0122883	21	2	GAAAAGTTCGTTTGGGTTTTT	bta-miR-2284k	21			
1275				GAAAAGTTCGTTTCGGGTTTTT	mir-2284	19	2	0	36

1276	t0137693	20	2	ACAAAGTTTGTTCGGGTTTT	bta-miR-2284m	20	
1277				GAAAAGTTTGTTCGGGTTTT	mir-2284	18	2 0 34
1278	t0139239	19	2	AAGAGTTTGTTCGGGTTTT	bta-miR-2284w	21	AAGAGTTTGTTCGGGTTTCTC
1279				mir-2284	19	0 2 32	
1280	t0139261	18	2	AAGAGTTCGTTTCAGGTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
1281				mir-2284	17	1 2 27	
1282	t0140023	19	2	AACGTTTCGTTTCAGGTTTTT	bta-miR-2284y	21	AAAAGTTCGTTTCGGGTTTTTC
1283				mir-2284	17	2 2 26	
1284	t0141631	20	2	AAAGAGTTCGTTTGGGTTTT	bta-miR-2284c	20	
1285				AAAAAGTTCGTTTTGGTTTT	mir-2284	18	2 0 34
1286	t0141733	23	2	AAACCTGAATGAACTTTTTGGCA	bta-miR-2285e	22	
1287				AAACCTGAACGAACTTTTTGGC	mir-2284	21	1 1 38
1288	t0141737	23	2	AAACCTGAACAACTTTTTGGCA	bta-miR-2285c	22	
1289				AAACCTGAACAACTTTTTGGC	mir-2284	22	0 1 41
1290	t0142023	21	2	AAAAGTTCTTTCGGGTTTTTC	bta-miR-2284y	21	
1291				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1 0 39
1292	t0142029	20	2	AAAAGTTCGTTTCAGGTTTT	bta-miR-2284j	20	
1293				GAAAAGTTCGTTTCAGGTTTT	mir-2284	19	0 2 32
1294	t0142049	19	2	AAAAGTTCGTTTCGGGTTT	bta-miR-2284y	21	AAAAGTTCGTTTCGGGTTTTTC
1295				mir-2284	18	0 4 24	
1296	t0142891	21	2	AAAAAGTTCGTGCAGGTTTTT	bta-miR-2284j	20	
1297				GAAAAGTTCGTTTCAGGTTTT	mir-2284	18	2 1 31
1298	t0142893	20	2	AAAAAGTTCGTGCAGGTTTT	bta-miR-2284j	20	
1299				GAAAAGTTCGTTTCAGGTTTT	mir-2284	18	2 0 34
1300	t0142899	22	2	AAAAAGTTCATTTGGGTTGTCT	bta-miR-2284c	20	
1301				AAAAAGTTCGTTTTGGTTTT	mir-2284	18	2 2 28
1302	t0142901	21	2	AAAAAGTTAGTTTAGTTTTT	bta-miR-2284z	22	
1303				AAAAAAGTTTGTTTGGGTTTTT	mir-2284	19	2 1 33
1304	t0147391	21	1	TTGGGTTCCCTGGCATGCTGAT	hsa-miR-23b-5p	22	
1305				TGGGTTCCCTGGCATGCTGATTT	mir-23	20	0 3 31
1306	t0148217	22	1	TTGGCCAAAAGTTCGTTCCGA	bta-miR-2284r	23	
1307				TTGGCCAAAAGTTCGTTCCGAT	mir-2284	21	1 1 38
1308	t0166969	20	1	TGTCACTCGGCCACTACCC	oar-miR-668-3p	21	
1309				ATGTCACTCGGCCACTACCC	mir-668	20	0 1 37
1310	t0184089	19	1	TGGCTCTGTGAGGTTCGGCT	eca-miR-1842	21	TGGCTCTGTGAGGTTCGGCTCA
1311				mir-1842	19	0 2 32	
1312	t0210165	24	1	TGCTGGATCTTTAGTTGTGGTGTA	bta-miR-3432	22	
1313				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1 2 35
1314	t0222079	23	1	TGCGGGATTTTTAGTTGTGGTAT	bta-miR-3432	22	
1315				TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	2 1 35
1316	t0232839	23	1	TGCAGGATCTTTAGTTGTGGTGT	bta-miR-3432	22	
1317				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1 1 38
1318	t0232843	22	1	TGCAGGATCTTTAGTTGTGGTG	bta-miR-3432	22	
1319				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1 0 41

1320	t0233101	19	1	TGCACGGGACTGGGAAGG	hsa-miR-3177-3p	21	TGCACGGCACTGGGGACACGT	
1321	undef	17	2	2	26			
1322	t0276571	23	1	TGAAAAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22		
1323	AAAAAGTTCGTTAGGGTTTTTC			mir-2284	20	2	1	35
1324	t0276669	21	1	TGAAAAGTTCCTTCGGGTTTT	bta-miR-2284x	21		
1325	TGAAAAGTTCGTTTCGGGTTTT			mir-2284	20	1	0	39
1326	t0324107	21	1	TAAAGTTCATTCGGGTTTTTT	bta-miR-2284n	21		
1327	AAAAAGTTTATTCGGGTTTTT			mir-2284	18	2	2	28
1328	t0324109	19	1	TAAAGTTCATTCGGGTTTT	bta-miR-2284x	21	TGAAAAGTTCGTTTCGGGTTTT	
1329	mir-2284	18	1	2	29			
1330	t0325249	19	1	TAAAAAGTTCGTTTGGGTT	bta-miR-2284v	20	AAAAAGTTCGTTTGGGTTT	
1331	undef	18	0	3	27			
1332	t0345341	18	1	GCGGGTGGTCGGGGCGGG	gga-miR-1777	20	GTGGGCGGTGCGGGGCGGG	
1333	undef	16	2	2	24			
1334	t0361585	21	1	GAAAGTTTGTGGGGTTTTTC	bta-miR-2284a	20		
1335	AAAAAGTTCGTTGGGGTTTTT			mir-2284	18	2	1	31
1336	t0361601	20	1	GAAAGTTCGTTTCGGGTTTTT	bta-miR-2284k	21		
1337	GAAAAGTTCGTTTCGGGTTTTT			mir-2284	19	1	1	34
1338	t0362033	20	1	GAAAAGTTCGTTTGGGTTTTT	bta-miR-2284x	21		
1339	TGAAAAGTTCGTTTCGGGTTTTT			mir-2284	19	1	1	34
1340	t0369479	21	1	CTGGGAGGGATTGGGAAGGA	tgu-miR-2954-5p	23		
1341	GCTGAGAGGGCTTGGGAGAGGA			mir-2954	19	2	2	30
1342	t0382221	21	1	CTAAAAAGTTCGTTTGGGTTT	bta-miR-2284v	20		
1343	AAAAAGTTCGTTTGGGGTTT			undef	19	0	3	29
1344	t0446735	21	1	CACAATACACGGTCGGCCTCT	oar-miR-323c	21		
1345	CACAATACACGGTCGGCCTCT			mir-154	21	0	0	42
1346	t0448169	21	1	CAAGTCCGCTGTGAACACGG	gga-miR-124c-3p	22		
1347	TCAAGTCCGCTGTGAACACGG			mir-124	21	0	1	39
1348	t0453581	20	1	CAAACCAGTTGTGCCTGTAG	hsa-miR-6715a-3p	21		
1349	CCAAACCAGTCGTGCCTGTGG			mir-6715	18	2	1	31
1350	t0456861	21	1	ATGTCACCTCGGCCACTACCC	oar-miR-668-3p	21		
1351	ATGTCACCTCGGCCACTACCC			mir-668	21	0	0	42
1352	t0459343	21	1	ATGCGGGATTTTTAGTTGTGG	bta-miR-3432	22		
1353	TGCGGGATCTTTAGTTGTGGTG			mir-3432	19	1	3	28
1354	t0459927	22	1	ATGCAGATCTTTAGTTGTGGT	bta-miR-3432	22		
1355	TGCGGGATCTTTAGTTGTGGTG			mir-3432	20	1	2	33
1356	t0462487	22	1	ATCTCGCCGCAAAGACCCAGC	rno-miR-3549	19		
1357	ATCTGCCCCGCAAAGACCC			mir-193	18	1	3	26
1358	t0462489	21	1	ATCTCGCCGCAAAGACCCAG	rno-miR-3549	19		
1359	ATCTGCCCCGCAAAGACCC			mir-193	18	1	2	29
1360	t0466115	23	1	ATACTGCCTGGTAATGATGACGC	rno-miR-200b-3p	23		
1361	TAATACTGCCTGGTAATGATGAC			mir-8	21	0	4	30
1362	t0466121	21	1	ATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23		
1363	TAATACTGCCTGGTAATGATGAC			mir-8	21	0	2	36

1364	t0488817	21	1	AGCCAGTTGGGGAAGAATGCT	bta-miR-7857	22	
1365				ATAGCCAGTTGGGGAAGAATGC	undef	20	0 3 31
1366	t0501031	21	1	AGAAAAGTTCGTTTGGGTTTT	bta-miR-2284x	21	
1367				TGAAAAGTTCGTTTCGGGTTTT	mir-2284	19	2 0 36
1368	t0519115	19	1	ACAAAGTTTGTTCGGGTTT	bta-miR-2284m	20	GAAAAGTTTGTTCGGGTTTT
1369				mir-2284	17	2 1 29	
1370	t0523807	19	1	AATAAGTTCGTTTGGGTTT	bta-miR-2284v	20	AAAAAGTTCGTTTGGGTTT
1371				undef	18	1 1 32	
1372	t0523811	22	1	AATAAGTTCGTTTCAGGTTTTTC	bta-miR-2284y	21	
1373				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1 1 36
1374	t0532105	21	1	AAGAGTTTGTTCGGGTTTTTC	bta-miR-2284w	21	
1375				AAGAGTTTGTTCGGGTTTCTC	mir-2284	20	1 0 39
1376	t0532195	21	1	AAGAGTTCGTTTGGGTTTTTC	bta-miR-2284b	21	
1377				AAAAGTTCGTTTGGTTTTTTC	mir-2284	19	2 0 36
1378	t0532197	20	1	AAGAGTTCGTTTGGGTTTTT	bta-miR-2284a	20	
1379				AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2 0 34
1380	t0536323	23	1	AAGAAGTTCGTTTCAGGTTTTTCT	bta-miR-2284u	21	
1381				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	21	0 2 36
1382	t0537777	21	1	AACGTTTCGTTTCAGGTTTTTCT	bta-miR-2284u	21	
1383				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	19	1 2 31
1384	t0543789	19	1	AACAAGTTCGTTTGGGTTT	bta-miR-2284v	20	AAAAAGTTCGTTTGGGTTT
1385				undef	18	1 1 32	
1386	t0544811	19	1	AAAGTTCCTTCAGGTTTTT	bta-miR-2284y	21	AAAAGTTCGTTTCGGGTTTTTC
1387				mir-2284	17	2 2 26	
1388	t0544827	20	1	AAAGTTCGTTTCAGGTTTTTA	bta-miR-2284y	21	
1389				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	18	2 1 31
1390	t0545435	21	1	AAAGTTCGTTTGGGTTTTTC	bta-miR-2284b	21	
1391				AAAAGTTCGTTTGGTTTTTTC	mir-2284	19	2 0 36
1392	t0549563	22	1	AAACGTTTCGTTTCAGGTTTTTCT	bta-miR-2284u	21	
1393				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	1 1 36
1394	t0549565	19	1	AAACGTTTCGTTTCAGGTTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
1395				mir-2284	18	1 1 32	
1396	t0551615	21	1	AAAATGTTTCGTTGGGGTTTTT	bta-miR-2284a	20	
1397				AAAAGTTCGTTGGGGTTTTT	mir-2284	20	0 1 37
1398	t0551617	21	1	AAAATGTTTCGCTTGGCTTTTTT	bta-miR-2284ac	22	
1399				AAATGTTTCGCTTGGCTTTTTCC	mir-2284	20	0 3 31
1400	t0551843	21	1	AAAAGTTCGTTTGAGTTTTTC	bta-miR-2284b	21	
1401				AAAAGTTCGTTTGGTTTTTTC	mir-2284	19	2 0 36
1402	t0551845	19	1	AAAAGTTCGTTTGAGTTTT	bta-miR-2284a	20	AAAAGTTCGTTGGGGTTTTT
1403				mir-2284	17	2 1 29	
1404	t0551847	18	1	AAAAGTTCGTTTAGGTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
1405				mir-2284	17	1 2 27	
1406	t0551849	21	1	AAAAGTTCGTTCTGGTTTTTC	bta-miR-2284y	21	
1407				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1 0 39

1408	t0551851	22	1	AAAAGTTCGTTCTGGTTTTTAA	bta-miR-2284u	21	
1409				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	19	2 1 33
1410	t0551877	21	1	AAAAGTTCGTTTCGGGGTTTTTC	bta-miR-2284y	21	
1411				AAAAGTTCGTTTCGGGGTTTTTC	mir-2284	20	1 0 39
1412	t0551879	20	1	AAAAGTTCGTTTCGGGGTTTT	bta-miR-2284y	21	
1413				AAAAGTTCGTTTCGGGGTTTTTC	mir-2284	19	1 1 34
1414	t0551885	19	1	AAAAGTTCGTTCCGGTTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
1415				mir-2284	18	1 1 32	
1416	t0551893	21	1	AAAAGTTCGTTTCAGGTTTTTA	bta-miR-2284y	21	
1417				AAAAGTTCGTTTCGGGGTTTTTC	mir-2284	19	2 0 36
1418	t0551897	21	1	AAAAGTTCGTTTCAGGTTTTAA	bta-miR-2284j	20	
1419				GAAAAGTTCGTTTCAGGTTTT	mir-2284	19	0 3 29
1420	t0551899	20	1	AAAAGTTCGTTTCAGGTTTTA	bta-miR-2284j	20	
1421				GAAAAGTTCGTTTCAGGTTTT	mir-2284	19	0 2 32
1422	t0551901	19	1	AAAAGTTCGTTTCAGGTTTA	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
1423				mir-2284	18	1 1 32	
1424	t0551921	19	1	AAAAGTTCGTGCAGGTTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
1425				mir-2284	18	1 1 32	
1426	t0552031	22	1	AAAAGTTCATTTCGGGGTTTTTC	bta-miR-2284y	21	
1427				AAAAGTTCGTTTCGGGGTTTTTC	mir-2284	20	1 1 36
1428	t0552033	21	1	AAAAGTTCATTTCGGGGTTTT	bta-miR-2284n	21	
1429				AAAAAGTTTATTTCGGGGTTTT	mir-2284	19	2 0 36
1430	t0555549	22	1	AAAAGTTCGTTTCAGGTTTT	bta-miR-7859	22	
1431				AAAAACTGGCAGCTTCATGTAAT	undef	21	0 2 36
1432	t0555589	21	1	AAAAGTTCGTTTCAGGTTTT	bta-miR-2284y	21	
1433				AAAAGTTCGTTTCGGGGTTTTTC	mir-2284	19	1 2 31
1434	t0555591	20	1	AAAAGTTCGTTTCAGGTTTT	bta-miR-2284j	20	
1435				GAAAAGTTCGTTTCAGGTTTT	mir-2284	18	2 0 34
1436	t0555849	22	1	AAAAATCTGAATGAACTTTTG	bta-miR-2285x	23	
1437				GAAAAATCTGAATGAACTTTTGG	mir-2284	21	1 1 38
1438	t0555879	21	1	AAAAGTTCGTTTCAGGTTTTA	bta-miR-2284c	20	
1439				AAAAAGTTCGTTTCAGGTTTT	mir-2284	19	1 1 34
1440	t0555885	22	1	AAAAGTTCGTTTCAGGTTTT	bta-miR-2284d	22	
1441				AAAAAGTTCGTTTCAGGTTTT	mir-2284	20	2 0 38
1442	t0555891	21	1	AAAAGTTCGTTTCAGGTTTTA	bta-miR-2284j	20	
1443				GAAAAGTTCGTTTCAGGTTTT	mir-2284	19	1 1 34
1444	t0555897	21	1	AAAAGTTCGTTTCAGGTTTAT	bta-miR-2284j	20	
1445				GAAAAGTTCGTTTCAGGTTTT	mir-2284	19	1 1 34
1446	t0556107	23	1	AAAAGTTCGTTTCAGGTTTT	bta-miR-7859	22	
1447				AAAAACTGGCAGCTTCATGTAAT	undef	22	0 1 41
1448	t0558153	23	257	TAATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23	
1449				TAATACTGCCTGGTAATGATGAC	mir-8	23	0 0 46
1450	t0558195	22	250	TGCGGGATCTTTAGTTGGTA	bta-miR-3432	22	
1451				TGCGGGATCTTTAGTTGGTA	mir-3432	21	1 0 41

1452	t0558733	23	169	TGCGGGATCTTTAGTTGTGGTAT	bta-miR-3432	22			
1453				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	1	38
1454	t0559133	22	130	TGGGTTCTGGCATGCTGATTT	hsa-miR-23b-5p	22			
1455				TGGGTTCTGGCATGCTGATTT	mir-23	22	0	0	44
1456	t0559483	22	108	AAAAAGTTCGTTTGGGTTTTCT	bta-miR-2284z	22			
1457				AAAAAAGTTTGGTTTGGGTTTTT	mir-2284	20	1	2	33
1458	t0560107	22	83	CTATACAACCTACTGCCTTCCT	hsa-let-7b-3p	22			
1459				CTATACAACCTACTGCCTTCCC	let-7	21	1	0	41
1460	t0560261	21	78	CCAAACCAGTTGTCCTGTAG	hsa-miR-6715a-3p	21			
1461				CCAAACCAGTCGTGCCTGTGG	mir-6715	19	2	0	36
1462	t0561351	21	54	AAAAAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22			
1463				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	1	1	36
1464	t0561705	21	48	TGGGTTCTGGCATGCTGATT	hsa-miR-23b-5p	22			
1465				TGGGTTCTGGCATGCTGATTT	mir-23	21	0	1	39
1466	t0562311	24	41	TAATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23			
1467				TAATACTGCCTGGTAATGATGAC	mir-8	23	0	1	43
1468	t0562479	21	40	AATAAGTTCGTTTGGGTTTTT	bta-miR-2284a	20			
1469				AAAAGTTCGTTGGGGTTTTT	mir-2284	19	1	1	34
1470	t0563195	22	34	ATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23			
1471				TAATACTGCCTGGTAATGATGAC	mir-8	21	0	3	33
1472	t0563589	21	31	AAAAGTTCGTTTCGGGTTTTTT	bta-miR-2284y	21			
1473				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	0	39
1474	t0563777	21	29	TGGCTCTGTGAGGTCGGCTCA	eca-miR-1842	21			
1475				TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	0	42
1476	t0564997	22	24	CCAAACCAGTTGTCCTGTAGA	hsa-miR-6715a-3p	21			
1477				CCAAACCAGTCGTGCCTGTGG	mir-6715	19	2	1	33
1478	t0565033	22	24	AATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23			
1479				TAATACTGCCTGGTAATGATGAC	mir-8	22	0	1	41
1480	t0566203	20	20	AAAAGTTCGTTTCGGGTTTTT	bta-miR-2284y	21			
1481				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	0	3	29
1482	t0568015	20	15	TGGGTTCTGGCATGCTGAT	hsa-miR-23b-5p	22			
1483				TGGGTTCTGGCATGCTGATTT	mir-23	20	0	2	34
1484	t0568469	22	15	AAAAAGTTCGTTTCAGGTTTTTT	bta-miR-2284u	21			
1485				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	0	3	31
1486	t0569029	23	14	AATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23			
1487				TAATACTGCCTGGTAATGATGAC	mir-8	22	0	2	38
1488	t0569031	22	14	AATAAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22			
1489				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38
1490	t0569075	19	14	AAAACACGAACAACTTTT	bta-miR-2285y	21			AAAACCCAAACAACTTTTTT
1491				mir-2284		17	2	2	26
1492	t0569751	23	13	AATGTGGAAGTGGTCTGAGGCAT	hsa-miR-4657	23			
1493				AATGTGGAAGTGGTCTGAGGCAT	undef	23	0	0	46
1494	t0569783	21	13	AAAAGTTCGTTTCAGGTTTTTT	bta-miR-2284u	21			
1495				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	0	2	34

1496	t0570283	20	12	GAAAGTTTGGTTGGGGTTTTT	bta-miR-2284a	20			
1497	AAAAGTTCGTTGGGGTTTTT			mir-2284	18	2	0	34	
1498	t0570665	20	12	AAAAGTTCGTTTCAGGTTTAA	bta-miR-2284j	20			
1499	GAAAAGTTCGTTTCAGGTTTTT			mir-2284	19	0	2	32	
1500	t0570935	22	11	TGAAAAGTTCGTTTGGGTTTTT	bta-miR-2284x	21			
1501	TGAAAAGTTCGTTTCGGGTTTTT			mir-2284	20	1	1	36	
1502	t0571175	18	11	GCGGGTGGTCGGGGCGGG	gga-miR-1777	20			GTGGGCGGTGCGGGGCGGCG
1503	undef	16	2	2	24				
1504	t0571585	20	11	AATAAGTTCGTTTGGGTTTTT	bta-miR-2284c	20			
1505	AAAAAGTTCGTTTTGGTTTTT			mir-2284	18	2	0	34	
1506	t0571765	22	10	TGGCTCTGTGAGGTCGGCTCAA	eca-miR-1842	21			
1507	TGGCTCTGTGAGGTCGGCTCA			mir-1842	21	0	1	39	
1508	t0572327	22	10	GAAAGTTTGGTTGGGGTTTTTCT	bta-miR-2284a	20			
1509	AAAAGTTCGTTGGGGTTTTT			mir-2284	18	2	2	28	
1510	t0572617	24	10	ATCACATTGCCAGGGATTACCACG	ptr-miR-23b	23			
1511	ATCACATTGCCAGGGATTACCAC			mir-23	23	0	1	43	
1512	t0574473	21	8	TGAGTGTGTGTGTGTGAGTGA	hsa-miR-574-5p	23			
1513	TGAGTGTGTGTGTGTGAGTGTGT			mir-574	20	1	2	33	
1514	t0575585	21	8	ATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23			
1515	TAATACTGCCTGGTAATGATGAC			mir-8	21	0	2	36	
1516	t0575947	22	8	AAAAGTTCGTTTGGGTTTTTCA	bta-miR-2284b	21			
1517	AAAAGTTCGTTTGGTTTTTTC			mir-2284	20	1	1	36	
1518	t0578277	22	6	TGGCTCTGTGAGGTCGGCTCA	eca-miR-1842	21			
1519	TGGCTCTGTGAGGTCGGCTCA			mir-1842	21	0	1	39	
1520	t0579279	22	6	TAAAAAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22			
1521	AAAAAGTTCGTTAGGGTTTTTTC			mir-2284	20	1	2	33	
1522	t0580715	21	6	AGCCAGTTGGGAAGAATGCT	bta-miR-7857	22			
1523	ATAGCCAGTTGGGAAGAATGC			undef	20	0	3	31	
1524	t0581137	21	6	AAAAGTTCGTTTCAGGTTTTTA	bta-miR-2284y	21			
1525	AAAAGTTCGTTTCGGGTTTTTC			mir-2284	19	2	0	36	
1526	t0581211	21	6	AAAAGTTCGTTTCAGGTTTTTA	bta-miR-2284j	20			
1527	GAAAAGTTCGTTTCAGGTTTTT			mir-2284	19	1	1	34	
1528	t0581213	20	6	AAAAGTTCGTTTCAGGTTTA	bta-miR-2284j	20			
1529	GAAAAGTTCGTTTCAGGTTTTT			mir-2284	18	2	0	34	
1530	t0581507	20	5	TGGCTCTGTGAGGTCGGCTC	eca-miR-1842	21			
1531	TGGCTCTGTGAGGTCGGCTCA			mir-1842	20	0	1	37	
1532	t0581509	19	5	TGGCTCTGTGAGGTCGGCT	eca-miR-1842	21			TGGCTCTGTGAGGTCGGCTCA
1533	mir-1842	19	0	2	32				
1534	t0582527	22	5	TCAAGTCCGCTGTGAACACGG	gga-miR-124c-3p	22			
1535	TCAAGTCCGCTGTGAACACGG			mir-124	22	0	0	44	
1536	t0583237	22	5	GCTAAAAAGTTCGTTTGGGTTT	bta-miR-2284v	20			
1537	AAAAAGTTCGTTTGGGTTT			undef	19	0	4	26	
1538	t0583267	22	5	GCGGCGGCGGCGCGGGGGCG	bta-miR-2885	19			
1539	CGGCGGCGGCGCGGGGGCG			undef	18	1	3	26	

1540	t0583535	21	5	GAAAGTTTGGTTGGGGTTTTTC	bta-miR-2284a	20	
1541	AAAAGTTCGTTGGGGTTTTT			mir-2284	18	2	1 31
1542	t0584639	21	5	ATCTCGCCCGCAAAGACCCAG	rno-miR-3549	19	
1543	ATCTTGCCCGCAAAGACCC			mir-193	18	1	2 29
1544	t0585421	23	5	AAACCTGAATGAACTTTTTGGCA	bta-miR-2285e	22	
1545	AAACCTGAACGAACTTTTTGGC			mir-2284	21	1	1 38
1546	t0585431	23	5	AAACCCGAATGAACTTTTTGGCA	bta-miR-2285l	23	
1547	AAAACCCGCATGAACTTTTTGGC			mir-2284	21	1	2 35
1548	t0585433	23	5	AAACCCAGATGAACTTTTTGGCT	bta-miR-2285l	23	
1549	AAAACCCGCATGAACTTTTTGGC			mir-2284	20	2	2 32
1550	t0585447	21	5	AAAAGTTCGTTGGGGTTTTT	bta-miR-2284b	21	
1551	AAAAGTTCGTTGGTTTTTTC			mir-2284	19	2	0 36
1552	t0585525	21	5	AAAAAGTTCGTTGGGGTTTA	bta-miR-2284c	20	
1553	AAAAAGTTCGTTTGGTTTTT			mir-2284	19	1	1 34
1554	t0585529	22	5	AAAAAGTTCGTTTCAGGTTTTTA	bta-miR-2284y	21	
1555	AAAAAGTTCGTTTCGGGTTTTTC			mir-2284	19	2	1 33
1556	t0585537	22	5	AAAAACCTGAATGACCCTTTTG	bta-miR-2285f	22	
1557	AAAACTGAATGAACTTTTTGG			mir-2284	19	2	2 30
1558	t0587619	21	4	TACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23	
1559	TAATACTGCCTGGTAATGATGAC			mir-8	20	0	4 28
1560	t0587787	20	4	TAAAGTTCATTCGGGTTTTT	bta-miR-2284y	21	
1561	AAAAGTTCGTTTCGGGTTTTTC			mir-2284	18	2	1 31
1562	t0588973	19	4	GAAAGTTTGGTTGGGGTTTT	bta-miR-2284m	20	GAAAAGTTTGGTTTCGGGTTTT
1563	mir-2284	18	1	1 32			
1564	t0589143	21	4	CTGGGAGGGATTGGGGAAGGA	tgu-miR-2954-5p	23	
1565	GCTGAGAGGGCTTGGGGAGAGGA			mir-2954	19	2	2 30
1566	t0591329	21	4	AGAAACCCAGACGAACTTTTT	bta-miR-2285j	22	
1567	AAAAACCAGAACGAACTTTTTG			mir-2284	19	1	3 28
1568	t0591993	19	4	AAAGTTCGTTTCGGGTTTT	bta-miR-2284x	21	TGAAAAGTTCGTTTCGGGTTTT
1569	mir-2284	18	1	2 29			
1570	t0592075	22	4	AAAAGTTCGTTTCAGGTTTTTCA	bta-miR-2284u	21	
1571	AAAAGTTCGTTTCGGTTTTTCT			mir-2284	20	1	1 36
1572	t0592197	23	4	AAAAAGTTCGTTTCAGGTTTTTCA	bta-miR-2284d	22	
1573	AAAAAGTTCGTTAGGGTTTTTTC			mir-2284	20	2	1 35
1574	t0592371	20	3	TGGCTCTGTGAGGTCGGCT	eca-miR-1842	21	
1575	TGGCTCTGTGAGGTCGGCTCA			mir-1842	19	0	3 29
1576	t0592377	22	3	TGGCCAAAAAGTTCGTTTCGGA	bta-miR-2284r	23	
1577	TGGCCAAAAAGTTCGTTTCGGAT			mir-2284	21	1	1 38
1578	t0596121	21	3	TAAAAAGTTCGTTGGGTTTT	bta-miR-2284aa	21	
1579	AAAAAAGTTTGGTTGGGTTTT			mir-2284	19	2	0 36
1580	t0596123	20	3	TAAAAAGTTCGTTGGGTTTT	bta-miR-2284v	20	
1581	AAAAAAGTTCGTTGGGTTTT			undef	19	0	2 32
1582	t0598447	20	3	GAAAGTTGGTTTGATTTTT	bta-miR-2284f	20	
1583	AAAGTTCGTTTCGGATTTTTTC			mir-2284	17	2	2 26

1584	t0598449	19	3	GAAAGTTGGTTTGGATTTT	bta-miR-2284p	21	TGAAAGTTTGTTCGGGATTTT
1585	mir-2284	17	2	2	26		
1586	t0598451	20	3	GAAAGTTCGGTTCGGGTTTTT	bta-miR-2284k	21	
1587	GAAAAGTTCGGTTCGGGTTTTT	mir-2284	19	1	1	34	
1588	t0601413	21	3	CACAATACACGGTCGGCCTCT	oar-miR-323c	21	
1589	CACAATACACGGTCGGCCTCT	mir-154	21	0	0	42	
1590	t0601689	21	3	ATGTCACTCGGCCACTACCC	oar-miR-668-3p	21	
1591	ATGTCACTCGGCCACTACCC	mir-668	21	0	0	42	
1592	t0603727	20	3	ACAAAGTTTGTTCGGGTTTT	bta-miR-2284m	20	
1593	GAAAAGTTTGTTCGGGTTTT	mir-2284	18	2	0	34	
1594	t0604099	19	3	AAGAGTTTGTTCGGGTTTT	bta-miR-2284w	21	AAGAGTTTGTTCGGGTTTCTC
1595	mir-2284	19	0	2	32		
1596	t0604529	23	3	AAACTCGAACGAATTTTTGGCCA	bta-miR-2284t-3p	22	
1597	AAACTCGAATGAATGTTTTGGC	mir-2284	20	1	3	30	
1598	t0604581	21	3	AAAATGTTGCTTGGCTTTTT	bta-miR-2284ac	22	
1599	AAATGTTGCTTGGCTTTTTCC	mir-2284	20	0	3	31	
1600	t0604593	20	3	AAAAGTTCGTTGAGTTTTT	bta-miR-2284a	20	
1601	AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	0	34	
1602	t0604601	19	3	AAAAGTTCGTTGGGTTTT	bta-miR-2284y	21	AAAAGTTCGTTGGGTTTTTC
1603	mir-2284	18	0	4	24		
1604	t0604787	21	3	AAAACGTTGCTTGGGTTTTT	bta-miR-2284a	20	
1605	AAAAGTTCGTTGGGGTTTTT	mir-2284	19	1	1	34	
1606	t0604821	21	3	AAAAAGTTCGTTGGATTTTT	bta-miR-2284d	22	
1607	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	19	2	1	33	
1608	t0604825	22	3	AAAAAGTTCATTTGGGTTGTCT	bta-miR-2284c	20	
1609	AAAAAGTTCGTTTTGGTTTT	mir-2284	18	2	2	28	
1610	t0604835	23	3	AAAAACTGGCAGCTTCATGTAAT	bta-miR-7859	22	
1611	AAAAACTGGCAGCTTCATGTAA	undef	22	0	1	41	
1612	t0605449	23	2	TTGGCTCTGTGAGGTCGGCTCAA	eca-miR-1842	21	
1613	TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	2	36	
1614	t0605451	21	2	TTGGCTCTGTGAGGTCGGCTC	eca-miR-1842	21	
1615	TGGCTCTGTGAGGTCGGCTCA	mir-1842	20	0	2	34	
1616	t0608417	21	2	TGGCCAAAAGTTCGTTCCGA	bta-miR-2284q	20	
1617	GGCCAAAAGTTCGTTCCGA	mir-2284	20	0	1	37	
1618	t0609165	24	2	TGCGGGATCTTTAGTTGTGGTATA	bta-miR-3432	22	
1619	TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	2	35	
1620	t0611871	21	2	TGAAAAGTTCGTTGGGTTTT	bta-miR-2284x	21	
1621	TGAAAAGTTCGTTGGGTTTT	mir-2284	20	1	0	39	
1622	t0615669	24	2	TAGCACCATCTGAAATCGGTATA	hsa-miR-29a-3p	22	
1623	TAGCACCATCTGAAATCGGTATA	mir-29	22	0	2	38	
1624	t0616625	21	2	TAAAGTTCATTCGGGTTTTTT	bta-miR-2284n	21	
1625	AAAAAGTTTATTCGGGTTTTT	mir-2284	18	2	2	28	
1626	t0616627	19	2	TAAAGTTCATTCGGGTTTT	bta-miR-2284x	21	TGAAAAGTTCGTTGGGTTTT
1627	mir-2284	18	1	2	29		

1628	t0625025	21	2	GAAAAGTTCGTTTGGGTTTTT	bta-miR-2284k	21		
1629				GAAAAGTTCGGTTCGGGTTTTT	mir-2284	19	2	0 36
1630	t0625027	20	2	GAAAAGTTCGTTTGGGTTTTT	bta-miR-2284x	21		
1631				TGAAAAGTTCGTTTCGGGTTTTT	mir-2284	19	1	1 34
1632	t0627645	22	2	CTAAAAGTTCGTTTGGGTTTTT	bta-miR-2284aa	21		
1633				AAAAAAGTTTGTGGGTTTTT	mir-2284	19	2	1 33
1634	t0636385	21	2	CAAAGGTTTCGTTTGGGTTTTT	bta-miR-2284a	20		
1635				AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	1 31
1636	t0636473	20	2	CAAACCAGTTGTCCTGTAG	hsa-miR-6715a-3p	21		
1637				CCAAACCAGTCGTGCCTGTGG	mir-6715	18	2	1 31
1638	t0638241	22	2	ATAAAGTTCATTTCGGGTTTTTT	bta-miR-2284y	21		
1639				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2	1 33
1640	t0638243	21	2	ATAAAGTTCATTTCGGGTTTTTT	bta-miR-2284n	21		
1641				AAAAAGTTTATTCGGGTTTTTT	mir-2284	19	2	0 36
1642	t0643557	22	2	AATGTGGAAGTGGTCTGAGGCA	hsa-miR-4657	23		
1643				AATGTGGAAGTGGTCTGAGGCAT	undef	22	0	1 41
1644	t0643705	22	2	AATCTGAACGAACTTTGTGGCA	bta-miR-2285e	22		
1645				AAACCTGAACGAACTTTTTGGC	mir-2284	19	2	2 30
1646	t0644737	21	2	AAGAAGTTCGTTTGGGTTTTT	bta-miR-2284a	20		
1647				AAAAGTTCGTTGGGGTTTTT	mir-2284	19	1	1 34
1648	t0644739	19	2	AAGAAGTTCGTTTGGGTTT	bta-miR-2284v	20		AAAAAGTTCGTTTGGGGTTT
1649	undef	18	1	1 32				
1650	t0645583	20	2	AAAGGTTTCGTTTGGGTTTTT	bta-miR-2284a	20		
1651				AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	0 34
1652	t0645947	23	2	AAACCTGAATGAACTTTTTGGCT	bta-miR-2285e	22		
1653				AAACCTGAACGAACTTTTTGGC	mir-2284	21	1	1 38
1654	t0645955	23	2	AAACCTGAACAACTTTTTGGCA	bta-miR-2285c	22		
1655				AAACCTGAACAACTTTTTGGC	mir-2284	22	0	1 41
1656	t0646103	21	2	AAAAGTTCGTTTGGGTTTTTA	bta-miR-2284b	21		
1657				AAAAGTTCGTTTGGTTTTTC	mir-2284	19	2	0 36
1658	t0646105	18	2	AAAAGTTCGTTTGGGTTT	bta-miR-2284v	20		AAAAAGTTCGTTTGGGGTTT
1659	undef	17	1	2 27				
1660	t0646115	19	2	AAAAGTTCGTTTGGGTTT	bta-miR-2284j	20		GAAAAGTTCGTTTGGGGTTT
1661	mir-2284	18	1	1 32				
1662	t0646129	21	2	AAAAGTTCATTTCGGGTTTTT	bta-miR-2284n	21		
1663				AAAAAGTTTATTCGGGTTTTT	mir-2284	19	2	0 36
1664	t0646499	24	2	AAAACCTGAATGAACTTTTTGGCA	bta-miR-2285f	22		
1665				AAAACCTGAATGAACTTTTTGG	mir-2284	22	0	2 38
1666	t0646553	22	2	AAAAGTTCGTTTGGGTTTTTA	bta-miR-2284d	22		
1667				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0 38
1668	t0646555	22	2	AAAAGTTCGTTTGGGTTTTAA	bta-miR-2284c	20		
1669				AAAAAGTTCGTTTGGTTTTT	mir-2284	19	1	2 31
1670	t0646557	22	2	AAAAGTTCGTTTGGATTTTC	bta-miR-2284d	22		
1671				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0 38

1672	t0646563	20	2	AAAAAGTTCGTTCAAGTTTT	bta-miR-2284j	20			
1673				GAAAAGTTCGTTCAAGTTTT	mir-2284	18	2	0	34
1674	t0646567	21	2	AAAAAGTTAGTTTAGGTTTTT	bta-miR-2284z	22			
1675				AAAAAAGTTTGTGGTTTTT	mir-2284	19	2	1	33
1676	t0652937	24	1	TGGCCAAAAAGTTCGTTCCGATC	bta-miR-2284r	23			
1677				TGGCCAAAAAGTTCGTTCCGAT	mir-2284	22	1	1	40
1678	t0668833	22	1	TGCTACTCGGCCACTACCCAA	oar-miR-668-3p	21			
1679				ATGCTACTCGGCCACTACCC	mir-668	20	0	3	31
1680	t0678839	23	1	TGGCTCTGTGAGGTCGGCTCAAG	eca-miR-1842	21			
1681				TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	2	36
1682	t0685117	22	1	TGCTGGATCTTTAGTTGTGGTG	bta-miR-3432	22			
1683				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	0	41
1684	t0685959	23	1	TGCGGGATTTTTAGTTGTGGTAT	bta-miR-3432	22			
1685				TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	2	1	35
1686	t0690459	22	1	TGAGTGTGTGTGTGTGAGTGAG	hsa-miR-574-5p	23			
1687				TGAGTGTGTGTGTGTGAGTGTGT	mir-574	21	1	1	38
1688	t0701439	19	1	TGAAAAGTTCGTTGGGTT	bta-miR-2284x	21			TGAAAAGTTCGTTCCGGTTTT
1689				mir-2284	18	1	2	29	
1690	t0701539	21	1	TGAAAAGTTCCTTCGGGTTTT	bta-miR-2284x	21			
1691				TGAAAAGTTCGTTCCGGTTTT	mir-2284	20	1	0	39
1692	t0701541	20	1	TGAAAAGTTCCTTCGGGTTT	bta-miR-2284x	21			
1693				TGAAAAGTTCGTTCCGGTTTT	mir-2284	19	1	1	34
1694	t0730681	25	1	TAGCACCATCTGAAATCGGTTATAA	hsa-miR-29a-3p	22			
1695				TAGCACCATCTGAAATCGGTTA	mir-29	22	0	3	35
1696	t0732275	22	1	TACTGCCTGGTAATGATGACGC	rno-miR-200b-3p	23			
1697				TAATACTGCCTGGTAATGATGAC	mir-8	20	0	5	25
1698	t0732279	20	1	TACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23			
1699				TAATACTGCCTGGTAATGATGAC	mir-8	20	0	3	31
1700	t0739833	22	1	TAAAAAGTTCGTTGGGTTTTT	bta-miR-2284z	22			
1701				AAAAAAGTTTGTGGTTTTT	mir-2284	20	2	0	38
1702	t0739835	19	1	TAAAAAGTTCGTTGGGTT	bta-miR-2284v	20			AAAAAGTTCGTTGGGTTTT
1703				undef	18	0	3	27	
1704	t0769115	20	1	GGCGGCGCGCCGGGGGCG	bta-miR-2885	19			
1705				CGGCGGCGCGCCGGGGGCG	undef	17	1	3	24
1706	t0782803	20	1	GCGGCGGCGCGCCGGGGG	bta-miR-2885	19			
1707				CGGCGGCGCGCCGGGGGCG	undef	17	2	1	29
1708	t0812353	19	1	GAAAGTTCGTTCCGGTTTT	bta-miR-2284x	21			TGAAAAGTTCGTTCCGGTTTT
1709				mir-2284	19	0	2	32	
1710	t0845197	19	1	CGGGTGGTCGGGTGGGTC	tca-miR-3897-3p	19			CGTGGTGGTGGGGTGGGG
1711				undef	16	2	2	24	
1712	t0916847	21	1	CAAGGTCCGCTGTGAACACGG	gga-miR-124c-3p	22			
1713				TCAAGGTCCGCTGTGAACACGG	mir-124	21	0	1	39
1714	t0922647	21	1	CAAACCAGTTGTGCCTGTAGA	hsa-miR-6715a-3p	21			
1715				CCAAACCAGTCGTGCCTGTGG	mir-6715	18	2	2	28

1716	t0926671	22	1	ATGTGGAAGTGGTCTGAGGCAT	hsa-miR-4657	23	
1717	AATGTGGAAGTGGTCTGAGGCAT	undef	22	0	1	41	
1718	t0930741	23	1	ATGCGGGATTTTTAGTTGTGGTA	bta-miR-3432	22	
1719	TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	2	1	35	
1720	t0930745	21	1	ATGCGGGATTTTTAGTTGTGG	bta-miR-3432	22	
1721	TGCGGGATCTTTAGTTGTGGTG	mir-3432	19	1	3	28	
1722	t0933131	22	1	ATCTCGCCCGCAAAGACCCAGC	rno-miR-3549	19	
1723	ATCTGCCCCGCAAAGACCC	mir-193	18	1	3	26	
1724	t0938015	24	1	ATACTGCCTGGTAATGATGACGCT	rno-miR-200b-3p	23	
1725	TAATACTGCCTGGTAATGATGAC	mir-8	21	0	5	27	
1726	t0938017	23	1	ATACTGCCTGGTAATGATGACGC	rno-miR-200b-3p	23	
1727	TAATACTGCCTGGTAATGATGAC	mir-8	21	0	4	30	
1728	t0938843	20	1	ATAAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21	
1729	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	18	2	1	31	
1730	t0966525	20	1	AGAAAGTTCGTTTCAGGTTTTT	bta-miR-2284i	21	
1731	GAGAAGTTCGTTTCGGTGT	mir-2284	18	2	1	31	
1732	t0967927	22	1	AGAAAGTTTGTGGGGTTTTTC	bta-miR-2284y	21	
1733	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2	1	33	
1734	t0967929	21	1	AGAAAGTTTGTGGGGTTTTT	bta-miR-2284a	20	
1735	AAAAGTTCGTTGGGGTTTTT	mir-2284	19	1	1	34	
1736	t0967935	21	1	AGAAAGTTCGTTTCAGGTTTTT	bta-miR-2285ae	22	
1737	AGAAAGTTCATTTAGGTTTTTC	mir-2284	19	2	1	33	
1738	t0968165	22	1	AGAAAACCCAGACGAACTTTTTG	bta-miR-2285j	22	
1739	AAAAACCGAAGCAACTTTTTG	mir-2284	20	1	2	33	
1740	t0968197	21	1	AGAAAAGTTCGTTTGGGTTTT	bta-miR-2284x	21	
1741	TGAAAAGTTCGTTTCGGGTTTT	mir-2284	19	2	0	36	
1742	t0988419	23	1	AATAAGTTCGTTTGGGTTTTTCC	bta-miR-2284d	22	
1743	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	1	35	
1744	t0988421	19	1	AATAAGTTCGTTTGGGTTT	bta-miR-2284v	20	AAAAAGTTCGTTTGGGGTTT
1745	undef	18	1	1	32		
1746	t0995163	19	1	AAGAGTTCGTTTCGGGTTTT	bta-miR-2284w	21	AAGAGTTTGTTCGGGTTTCTC
1747	mir-2284	18	1	2	29		
1748	t0996095	24	1	AAGAATGTGGAAGTGGTCTGAGGC	hsa-miR-4657	23	
1749	AATGTGGAAGTGGTCTGAGGCAT	undef	21	0	5	27	
1750	t0996161	22	1	AAGAAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22	
1751	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38	
1752	t0996163	20	1	AAGAAGTTCGTTTGGGTTTT	bta-miR-2284c	20	
1753	AAAAAGTTCGTTTTGGTTTT	mir-2284	18	2	0	34	
1754	t0996165	21	1	AAGAAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21	
1755	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	2	31	
1756	t1002473	20	1	AAAGTTCGTTTCGGGTTTTTA	bta-miR-2284y	21	
1757	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	1	34	
1758	t1002773	20	1	AAAGTTCGTTTCGGGTTTTT	bta-miR-2284y	21	
1759	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	1	34	

1760	t1002777	18	1	AAAGGTTTCGTTCCGGGTTT	bta-miR-2284h-5p	21	
1761	CCCAAAAGTTCGTTCCGGGTTT			mir-2284	17	1	3 24
1762	t1002781	19	1	AAAGGTTTCGTTCCAGGTTTT	bta-miR-2284j	20	GAAAAGTTCGTTCCAGGTTTT
1763	mir-2284	18	1	1 32			
1764	t1005591	24	1	AAACCCGAATGAACTTTTTGGCAA	bta-miR-22851	23	
1765	AAAACCCGCATGAACTTTTTGGC			mir-2284	21	1	3 32
1766	t1006133	22	1	AAAATGTTTCGTTGGGGTTTTTG	bta-miR-2284a	20	
1767	AAAAGTTCGTTGGGGTTTTT			mir-2284	20	0	2 34
1768	t1006135	21	1	AAAATGTTTCGTTGGGGTTTTT	bta-miR-2284a	20	
1769	AAAAGTTCGTTGGGGTTTTT			mir-2284	20	0	1 37
1770	t1006137	22	1	AAAATGTTTCGCTTGGCTTTTTTC	bta-miR-2284ac	22	
1771	AAATGTTTCGCTTGGCTTTTTCC			mir-2284	21	0	2 36
1772	t1006427	20	1	AAAAGTTCCTTTCGGGTTTTT	bta-miR-2284y	21	
1773	AAAAGTTCGTTCCGGGTTTTTC			mir-2284	19	1	1 34
1774	t1006437	20	1	AAAAGTTCGTTTGGGTTTTA	bta-miR-2284a	20	
1775	AAAAGTTCGTTGGGGTTTTT			mir-2284	18	2	0 34
1776	t1006443	19	1	AAAAGTTCGTTGAGTTTT	bta-miR-2284a	20	AAAAGTTCGTTGGGGTTTTT
1777	mir-2284	17	2	1 29			
1778	t1006445	20	1	AAAAGTTCGTTTAGGTTTTT	bta-miR-2285ae	22	
1779	AGAAAGTTCATTTAGGTTTTTC			mir-2284	19	1	2 31
1780	t1006447	20	1	AAAAGTTCGTTCTGGTTTTT	bta-miR-2284y	21	
1781	AAAAGTTCGTTCCGGGTTTTTC			mir-2284	19	1	1 34
1782	t1006459	21	1	AAAAGTTCGTTCCGGGTTTTCT	bta-miR-2284u	21	
1783	AAAAGTTCGTTCCGGTTTTTCT			mir-2284	20	1	0 39
1784	t1006471	21	1	AAAAGTTCGTTCCGGGTTTTTC	bta-miR-2284y	21	
1785	AAAAGTTCGTTCCGGGTTTTTC			mir-2284	20	1	0 39
1786	t1006479	23	1	AAAAGTTCGTTCCAGGTTTTTTA	bta-miR-2284u	21	
1787	AAAAGTTCGTTCCGGTTTTTCT			mir-2284	20	1	2 33
1788	t1006487	20	1	AAAAGTTCGTTCCAGGTTTAT	bta-miR-2284j	20	
1789	GAAAAGTTCGTTCCAGGTTTT			mir-2284	19	0	2 32
1790	t1006491	19	1	AAAAGTTCGTTCCAGGTTTT	bta-miR-2284j	20	GAAAAGTTCGTTCCAGGTTTT
1791	mir-2284	18	1	1 32			
1792	t1006599	21	1	AAAAGGTTTCGTTCCGGGTTTTT	bta-miR-2284y	21	
1793	AAAAGTTCGTTCCGGGTTTTTC			mir-2284	20	0	2 34
1794	t1006605	20	1	AAAAGGTTTCGTTCCAGGTTTT	bta-miR-2284j	20	
1795	GAAAAGTTCGTTCCAGGTTTT			mir-2284	18	2	0 34
1796	t1008021	22	1	AAAACCTGGCAGCTTCATGTAAT	bta-miR-7859	22	
1797	AAAACCTGGCAGCTTCATGTAA			undef	21	0	2 36
1798	t1008045	22	1	AAAACCTGGAACGAATTTTTGGC	bta-miR-2285aa	23	
1799	AAAACCTGGAACGAATTTTTGGC			mir-2284	20	2	1 35
1800	t1008379	21	1	AAAAGTTCCTTTCAGGTTTTT	bta-miR-2284j	20	
1801	GAAAAGTTCGTTCCAGGTTTT			mir-2284	18	2	1 31
1802	t1008381	22	1	AAAAGTTCGTTTGGGTTTTT	bta-miR-2284d	22	
1803	AAAAGTTCGTTAGGGTTTTTC			mir-2284	20	2	0 38

1804	t1008383	23	1	AAAAAGTTCGTTGGGTTTTTCA	bta-miR-2284d	22	
1805				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	21	1 1 38
1806	t1008409	19	1	AAAAAGTTCGTTCAAGTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
1807				mir-2284	17	2	1 29
1808	t1008621	21	1	AAAAACTAGAATGAACTTTTT	bta-miR-2285j	22	
1809				AAAAACCAGAACGAACTTTTTG	mir-2284	19	2 1 33
1810	t1008721	22	1	AAAAACCTGAACAACTTTTTG	bta-miR-2285j	22	
1811				AAAAACCAGAACGAACTTTTTG	mir-2284	20	2 0 38
1812	t1011603	23	151	TAATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23	
1813				TAATACTGCCTGGTAATGATGAC	mir-8	23	0 0 46
1814	t1012967	20	89	AAAGGTTTCGTTTCGGGTTTTT	bta-miR-2284y	21	
1815				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1 1 34
1816	t1012977	22	88	TGCGGGATCTTTAGTTGTGGTA	bta-miR-3432	22	
1817				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1 0 41
1818	t1013491	20	76	AAGAGTTCGTTTCGGGTTTTT	bta-miR-2284y	21	
1819				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1 1 34
1820	t1014189	22	63	AAAAAGTTCGTTGGGTTTTCT	bta-miR-2284z	22	
1821				AAAAAAGTTTGTGGGTTTTT	mir-2284	20	1 2 33
1822	t1015047	21	52	GAAAAGTTCGTTGGGTTTTT	bta-miR-2284k	21	
1823				GAAAAGTTCGTTTCGGGTTTTT	mir-2284	19	2 0 36
1824	t1015173	23	50	TGCGGGATCTTTAGTTGTGGTAT	bta-miR-3432	22	
1825				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1 1 38
1826	t1016069	20	42	AAAGGTTTCGTTTCAGGTTTTT	bta-miR-2284y	21	
1827				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	18	2 1 31
1828	t1016209	20	41	AAACGTTTCGTTTCAGGTTTTT	bta-miR-2284y	21	
1829				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	18	2 1 31
1830	t1016697	20	38	AAAAGTTCTTTCGGGTTTTT	bta-miR-2284y	21	
1831				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1 1 34
1832	t1017015	21	36	AAAAAGTTCGTTGGGTTTTTC	bta-miR-2284d	22	
1833				AAAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	1 1 36
1834	t1017335	21	34	AAAGGTTTCGTTTCGGGTTTTTC	bta-miR-2284y	21	
1835				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1 0 39
1836	t1017479	21	33	CCAAACCAGTTGTCCTGTAG	hsa-miR-6715a-3p	21	
1837				CCAAACCAGTCGTCCTGTGG	mir-6715	19	2 0 36
1838	t1018005	22	30	TGGGTTCTGGCATGCTGATTT	hsa-miR-23b-5p	22	
1839				TGGGTTCTGGCATGCTGATTT	mir-23	22	0 0 44
1840	t1018139	22	30	CTATACAACCTACTGCCTCCT	hsa-let-7b-3p	22	
1841				CTATACAACCTACTGCCTCCC	let-7	21	1 0 41
1842	t1018755	20	28	AAGAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21	
1843				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	18	2 1 31
1844	t1018781	21	28	AAAGAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21	
1845				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1 2 31
1846	t1019395	19	26	AAAGGTTTCGTTTCGGGTTTTT	bta-miR-2284x	21	TGAAAAGTTCGTTTCGGGTTTTT
1847				mir-2284	18	1	2 29

1848	t1019695	21	25	AAGAGTTCGTTCCGGGTTTTTC	bta-miR-2284y	21	
1849				AAAAGTTCGTTCCGGGTTTTTC	mir-2284	20	1 0 39
1850	t1020127	21	24	AAGAAGTTCGTTCCAGGTTTTT	bta-miR-2284y	21	
1851				AAAAGTTCGTTCCGGGTTTTTC	mir-2284	19	1 2 31
1852	t1020579	21	22	TGGGTTCTGGCATGCTGATT	hsa-miR-23b-5p	22	
1853				TGGGTTCTGGCATGCTGATTT	mir-23	21 0	1 39
1854	t1021643	24	20	TAATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23	
1855				TAATACTGCCTGGTAATGATGAC	mir-8	23 0	1 43
1856	t1021867	21	20	AAAAGTTCGTTCCGGGTTTTTT	bta-miR-2284y	21	
1857				AAAAGTTCGTTCCGGGTTTTTC	mir-2284	20	1 0 39
1858	t1023043	20	18	AAAAGTTCGTTCCGGTTTTT	bta-miR-2284y	21	
1859				AAAAGTTCGTTCCGGGTTTTTC	mir-2284	19	1 1 34
1860	t1024443	22	16	AATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23	
1861				TAATACTGCCTGGTAATGATGAC	mir-8	22 0	1 41
1862	t1026923	22	13	GAAAAGTTCGTTGGGTTTTTC	bta-miR-2284d	22	
1863				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2 0 38
1864	t1027315	21	13	AAAAGTTCGTTCCGGTTTTTC	bta-miR-2284y	21	
1865				AAAAGTTCGTTCCGGGTTTTTC	mir-2284	20	1 0 39
1866	t1028451	19	12	AAGAGTTCGTTCCGGTTTT	bta-miR-2284w	21	AAGAGTTTGTTCCGGTTTTCTC
1867				mir-2284	18 1 2	29	
1868	t1029847	21	11	AATAAGTTCGTTGGGTTTTT	bta-miR-2284a	20	
1869				AAAAGTTCGTTGGGGTTTTT	mir-2284	19	1 1 34
1870	t1029935	20	11	AAAGAGTTCGTTCCAGGTTTT	bta-miR-2284j	20	
1871				GAAAAGTTCGTTCCAGGTTTT	mir-2284	18	2 0 34
1872	t1031045	20	10	GAAAAGTTCGTTGGGTTTT	bta-miR-2284x	21	
1873				TGAAAAGTTCGTTCCGGTTTT	mir-2284	19	1 1 34
1874	t1031373	22	10	ATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23	
1875				TAATACTGCCTGGTAATGATGAC	mir-8	21 0	3 33
1876	t1031741	19	10	AAACGTTTCGTTCCAGGTTTT	bta-miR-2284j	20	GAAAAGTTCGTTCCAGGTTTT
1877				mir-2284	18 1 1	32	
1878	t1033807	20	9	AAAAGTTCGTTCCAGGTTTTT	bta-miR-2284y	21	
1879				AAAAGTTCGTTCCGGGTTTTTC	mir-2284	18	2 1 31
1880	t1033809	20	9	AAAAGGTTTCGTTCCGGTTTT	bta-miR-2284y	21	
1881				AAAAGTTCGTTCCGGGTTTTTC	mir-2284	19	0 3 29
1882	t1035139	22	8	TAAAAGTTCGTTGGGTTTTTC	bta-miR-2284d	22	
1883				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	1 2 33
1884	t1036185	22	8	AATAAGTTCGTTGGGTTTTTC	bta-miR-2284d	22	
1885				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2 0 38
1886	t1036231	19	8	AAGAGTTCGTTCCAGGTTTT	bta-miR-2284j	20	GAAAAGTTCGTTCCAGGTTTT
1887				mir-2284	18 1 1	32	
1888	t1036323	19	8	AAAGGTTTCGTTCCAGGTTTT	bta-miR-2284j	20	GAAAAGTTCGTTCCAGGTTTT
1889				mir-2284	18 1 1	32	
1890	t1036443	22	8	AAAAAGTTCGTTCCAGGTTTTT	bta-miR-2284u	21	
1891				AAAAGTTCGTTCCGGTTTTTCT	mir-2284	20	0 3 31

1892	t1037785	21	7	TCAGGGAGCTCACAGTCTAGT	mmu-miR-151-5p	21
1893				TCGAGGAGCTCACAGTCTAGT	mir-28	19 2 0 36
1894	t1037823	22	7	TCAAGGTCCGCTGTGAACACGG	gga-miR-124c-3p	22
1895				TCAAGGTCCGCTGTGAACACGG	mir-124	22 0 0 44
1896	t1039397	23	7	AATGTGGAAGTGGTCTGAGGCAT	hsa-miR-4657	23
1897				AATGTGGAAGTGGTCTGAGGCAT	undef	23 0 0 46
1898	t1039607	20	7	AAAGTTCTTTCAGGTTTT	bta-miR-2284j	20
1899				GAAAAGTTCGTTTCAGGTTTT	mir-2284	17 2 2 26
1900	t1041205	22	6	TGAAAAGTTCGTTTGGGTTTT	bta-miR-2284x	21
1901				TGAAAAGTTCGTTTGGGTTTT	mir-2284	20 1 1 36
1902	t1043027	22	6	ATGAGGGATCTTTAGTTGTGGT	bta-miR-3432	22
1903				TGCGGGATCTTTAGTTGTGGTG	mir-3432	20 1 2 33
1904	t1043117	24	6	ATCACATTGCCAGGGATTACCACG	ptr-miR-23b	23
1905				ATCACATTGCCAGGGATTACCAC	mir-23	23 0 1 43
1906	t1043727	23	6	AATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23
1907				TAATACTGCCTGGTAATGATGAC	mir-8	22 0 2 38
1908	t1043733	20	6	AATAAGTTCGTTTGGGTTTT	bta-miR-2284c	20
1909				AAAAAGTTCGTTTGGGTTTT	mir-2284	18 2 0 34
1910	t1043843	20	6	AAGAAGTTCGTTTCAGGTTTT	bta-miR-2284j	20
1911				GAAAAGTTCGTTTCAGGTTTT	mir-2284	18 2 0 34
1912	t1044069	22	6	AAACGTTTCGTTTCAGGTTTTTCT	bta-miR-2284u	21
1913				AAAAGTTCGTTTCAGGTTTTTCT	mir-2284	20 1 1 36
1914	t1044115	20	6	AAACAGTTCGTTTGGGTTTT	bta-miR-2284c	20
1915				AAAAAGTTCGTTTGGGTTTT	mir-2284	18 2 0 34
1916	t1047895	20	5	GAAAGTTTGGTGGGGTTTT	bta-miR-2284a	20
1917				AAAAGTTCGTTGGGGTTTT	mir-2284	18 2 0 34
1918	t1048557	22	5	CCAAACCAGTTGTGCCTGTAGA	hsa-miR-6715a-3p	21
1919				CCAAACCAGTCGTGCCTGTGG	mir-6715	19 2 1 33
1920	t1049131	21	5	ATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23
1921				TAATACTGCCTGGTAATGATGAC	mir-8	21 0 2 36
1922	t1050077	21	5	AATAAGTTCGTTTCAGGTTTT	bta-miR-2284y	21
1923				AAAAGTTCGTTTCAGGTTTTTCT	mir-2284	19 1 2 31
1924	t1050185	21	5	AAGAGTTCGTTTCAGGTTTTTCT	bta-miR-2284y	21
1925				AAAAGTTCGTTTCAGGTTTTTCT	mir-2284	19 2 0 36
1926	t1050565	20	5	AAAGAGTTCGTTTGGGTTTT	bta-miR-2284c	20
1927				AAAAAGTTCGTTTGGGTTTT	mir-2284	18 2 0 34
1928	t1050609	23	5	AAACCTGAATGAACTTTTGGCA	bta-miR-2285e	22
1929				AAACCTGAACGAACTTTTGGC	mir-2284	21 1 1 38
1930	t1050725	22	5	AAAAAGTTCGTTTCAGGTTTTTA	bta-miR-2284y	21
1931				AAAAGTTCGTTTCAGGTTTTTCT	mir-2284	19 2 1 33
1932	t1051443	20	4	TGGGTTCTGGCATGCTGAT	hsa-miR-23b-5p	22
1933				TGGGTTCTGGCATGCTGATTT	mir-23	20 0 2 34
1934	t1052419	20	4	TGCGGGATCTTTGTTGTGG	bta-miR-3432	22
1935				TGCGGGATCTTTAGTTGTGGTG	mir-3432	19 1 2 31

1936	t1052463	23	4	TGCAGGATCTTTAGTTGTGGTGT	bta-miR-3432	22	
1937				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1 1 38
1938	t1052521	21	4	TGAGTGTGTGTGTGAGTGA	hsa-miR-574-5p	23	
1939				TGAGTGTGTGTGTGAGTGTGT	mir-574	20	1 2 33
1940	t1056213	22	4	GAAAGTTTGTGGGGTTTTCT	bta-miR-2284a	20	
1941				AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2 2 28
1942	t1058153	23	4	ATACTGCCTGGTAATGATGACGC	rno-miR-200b-3p	23	
1943				TAATACTGCCTGGTAATGATGAC	mir-8	21	0 4 30
1944	t1059881	20	4	AAGAAGTTCGTTTGGGTTTT	bta-miR-2284c	20	
1945				AAAAAGTTCGTTTGGGTTTT	mir-2284	18	2 0 34
1946	t1060151	20	4	AAAGTTCGTTTGGGTTTTT	bta-miR-2284a	20	
1947				AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2 0 34
1948	t1060295	21	4	AAAGAGTTCGTTTGGGTTTTT	bta-miR-2284a	20	
1949				AAAAGTTCGTTGGGGTTTTT	mir-2284	19	1 1 34
1950	t1060297	19	4	AAAGAGTTCGTTTCAGGTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
1951				mir-2284	17	2 1 29	
1952	t1060309	22	4	AAAGAAGTTTGTTTGGGTTTTT	bta-miR-2284z	22	
1953				AAAAAAGTTTGTTTGGGTTTTT	mir-2284	21	1 0 41
1954	t1060409	19	4	AAAAGTTCGTTTCGGGTTTT	bta-miR-2284x	21	TGAAAAGTTCGTTTCGGGTTTT
1955				mir-2284	18	1 2 29	
1956	t1060411	20	4	AAAAGTTCGTTTCGGGGTTTT	bta-miR-2284y	21	
1957				AAAAGTTCGTTTCGGGGTTTTTC	mir-2284	19	1 1 34
1958	t1060413	21	4	AAAAGTTCGTTTCAGGTTTTT	bta-miR-2284u	21	
1959				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	0 2 34
1960	t1060415	21	4	AAAAGTTCGTTTCAGGTTTTTA	bta-miR-2284y	21	
1961				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2 0 36
1962	t1060565	22	4	AAAACGAAACAAGCTTTTTGGC	bta-miR-2285c	22	
1963				AAACCTGAACAACCTTTTTGGC	mir-2284	20	2 0 38
1964	t1060585	19	4	AAAACACGAACAACTTTT	bta-miR-2285y	21	AAAACCCAAACAACCTTTTTT
1965				mir-2284	17	2 2 26	
1966	t1062473	21	3	TGGCTCTGTGAGGTCGGCTCA	eca-miR-1842	21	
1967				TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0 0 42
1968	t1063665	20	3	TGCGGGATCTTTCGTTGTGG	bta-miR-3432	22	
1969				TGCGGGATCTTTAGTTGTGGTG	mir-3432	19	1 2 31
1970	t1063729	22	3	TGCAGGATCTTTAGTTGTGGTG	bta-miR-3432	22	
1971				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1 0 41
1972	t1070771	21	3	CTGGGAGGGATTGGGGAAGGA	tgu-miR-2954-5p	23	
1973				GCTGAGAGGGCTTGGGAGAGGA	mir-2954	19	2 2 30
1974	t1074389	22	3	ATAAAGTTCATTTCGGTTTTTT	bta-miR-2284y	21	
1975				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2 1 33
1976	t1076687	21	3	ACAAAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21	
1977				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1 2 31
1978	t1077325	19	3	AAGAAGTTCGTTTCAGGTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
1979				mir-2284	17	2 1 29	

1980	t1077769	20	3	AAATGTTTCGTTTCAGGTTTTT	bta-miR-2284y	21	
1981				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	18	2 1 31
1982	t1077921	19	3	AAAGTTCTTTTCAGGTTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
1983				mir-2284	17	2 1 29	
1984	t1078263	22	3	AAAGAGTTCGTTTCAGGTTTTTC	bta-miR-2284y	21	
1985				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1 1 36
1986	t1078305	20	3	AAACGTTTCGTTTGGGTTTTT	bta-miR-2284a	20	
1987				AAAAGTTCGTTTGGGTTTTT	mir-2284	18	2 0 34
1988	t1078433	21	3	AAACAGTTCGTTTGGGTTTTT	bta-miR-2284a	20	
1989				AAAAGTTCGTTTGGGTTTTT	mir-2284	19	1 1 34
1990	t1078447	21	3	AAAATGTTTCGCTTGGCTTTTT	bta-miR-2284ac	22	
1991				AAATGTTTCGCTTGGCTTTTTCC	mir-2284	20	0 3 31
1992	t1078467	22	3	AAAAGTTCGTTTGGGTTTTTCA	bta-miR-2284b	21	
1993				AAAAGTTCGTTTGGTTTTTTC	mir-2284	20	1 1 36
1994	t1078471	21	3	AAAAGTTCGTTTCGGGTTTTTC	bta-miR-2284y	21	
1995				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1 0 39
1996	t1078691	21	3	AAAACGTTTCGTTTCAGGTTTTT	bta-miR-2284y	21	
1997				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1 2 31
1998	t1078721	21	3	AAAAAGTTCGTTTCAGGTTTTA	bta-miR-2284j	20	
1999				GAAAAGTTCGTTTCAGGTTTTT	mir-2284	19	1 1 34
2000	t1078727	21	3	AAAAAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22	
2001				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	19	2 1 33
2002	t1079257	20	2	TTGGCTCTGTGAGGTCGGCT	eca-miR-1842	21	
2003				TGGCTCTGTGAGGTCGGCTCA	mir-1842	19	0 3 29
2004	t1095921	24	2	TAGCACCATCTGAAATCGGTTATA	hsa-miR-29a-3p	22	
2005				TAGCACCATCTGAAATCGGTTA	mir-29	22	0 2 38
2006	t1098249	20	2	TAAAGTTCATTCGGGTTTTT	bta-miR-2284y	21	
2007				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	18	2 1 31
2008	t1101277	18	2	GCGGGTGGTCGGGGCGGG	gga-miR-1777	20	GTGGGCGGTGCGGGGCGGG
2009				undef	16	2 2 24	
2010	t1103323	21	2	GAAAGTTTGTGGGTTTTTC	bta-miR-2284a	20	
2011				AAAAGTTCGTTGGGTTTTT	mir-2284	18	2 1 31
2012	t1103383	19	2	GAAAAGTTCGTTTGGGTTT	bta-miR-2284v	20	AAAAGTTCGTTTGGGTTT
2013				undef	18	1 1 32	
2014	t1106077	19	2	CGGGTGGTCGGGGTGGGTC	tca-miR-3897-3p	19	CGTGGTGGTGGGGTGGGG
2015				undef	16	2 2 24	
2016	t1112101	21	2	CACAATACACGGTCGGCCTCT	oar-miR-323c	21	
2017				CACAATACACGGTCGGCCTCT	mir-154	21	0 0 42
2018	t1113519	21	2	ATGTCACTCGGCCACTACCC	oar-miR-668-3p	21	
2019				ATGTCACTCGGCCACTACCC	mir-668	21	0 0 42
2020	t1113961	24	2	ATGAGGGATCTTTAGTTGTGGTAT	bta-miR-3432	22	
2021				TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	2 2 32
2022	t1113963	23	2	ATGAGGGATCTTTAGTTGTGGTA	bta-miR-3432	22	
2023				TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	2 1 35

2024	t1121505	19	2	ACAAAGTTTGTTCGGGTTT	bta-miR-2284m	20	GAAAAGTTTGTTCGGGTTT
2025	mir-2284	17	2	1	29		
2026	t1121617	22	2	AATGTGGAAGTGGTCTGAGGCA	hsa-miR-4657	23	
2027	AATGTGGAAGTGGTCTGAGGCAT	undef	22	0	1	41	
2028	t1123007	21	2	AAGAGTTCGTTGGGTTTTTC	bta-miR-2284b	21	
2029	AAAAGTTCGTTGGTTTTTC	mir-2284	19	2	0	36	
2030	t1123011	18	2	AAGAGTTCGTTGGGTTT	bta-miR-2284w	21	AAGAGTTTGTTCGGGTTTCTC
2031	mir-2284	17	1	3	24		
2032	t1123365	22	2	AAGAAGTTCGTTTCAGGTTTTTC	bta-miR-2284y	21	
2033	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	1	36	
2034	t1125477	21	2	AAACGTTTCGTTTCAGGTTTTTC	bta-miR-2284y	21	
2035	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2	0	36	
2036	t1125753	23	2	AAACCCAGATGAACTTTTTGGCT	bta-miR-2285l	23	
2037	AAAACCCGCATGAACTTTTTGGC	mir-2284	20	2	2	32	
2038	t1125875	18	2	AAAAGTTCTTTCGGGTTT	bta-miR-2284v	20	AAAAAGTTCGTTGGGGTTT
2039	undef	17	1	2	27		
2040	t1125877	19	2	AAAAGTTCTTTCAGGTTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
2041	mir-2284	18	1	1	32		
2042	t1125885	20	2	AAAAGTTCGTTTCGGGTTTTTC	bta-miR-2284y	21	
2043	AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	0	1	37	
2044	t1125891	21	2	AAAAGTTCGTTCCGGTTTTTC	bta-miR-2284y	21	
2045	AAAAGTTCGTTCCGGTTTTTC	mir-2284	20	1	0	39	
2046	t1125893	19	2	AAAAGTTCGTTCCGGTTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
2047	mir-2284	18	1	1	32		
2048	t1125897	20	2	AAAAGTTCGTTTCAGGTTTAA	bta-miR-2284j	20	
2049	GAAAAGTTCGTTTCAGGTTTT	mir-2284	19	0	2	32	
2050	t1125899	19	2	AAAAGTTCGTTTCAGGTTTAA	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
2051	mir-2284	18	1	1	32		
2052	t1126377	23	2	AAAACCTGAACAAGCTTTTTGGCC	bta-miR-2285c	22	
2053	AAACCTGAACAAGCTTTTTGGC	mir-2284	20	2	1	35	
2054	t1126459	21	2	AAAAAGTTCGTTTGGGTTTAA	bta-miR-2284c	20	
2055	AAAAAGTTCGTTTGGTTTT	mir-2284	19	1	1	34	
2056	t1126461	21	2	AAAAAGTTCGTTTAGGTTTT	bta-miR-2284c	20	
2057	AAAAAGTTCGTTTGGTTTT	mir-2284	19	1	1	34	
2058	t1126463	20	2	AAAAAGTTCGTTCAAGTTTT	bta-miR-2284j	20	
2059	GAAAAGTTCGTTTCAGGTTTT	mir-2284	18	2	0	34	
2060	t1126469	22	2	AAAAAGTTCATTTGGGTTGTCT	bta-miR-2284c	20	
2061	AAAAAGTTCATTTGGTTTT	mir-2284	18	2	2	28	
2062	t1131575	23	1	TGGGTTCCCTGGCATGCTGATTT	hsa-miR-23b-5p	22	
2063	TGGGTTCCCTGGCATGCTGATTT	mir-23	22	0	1	41	
2064	t1132771	22	1	TGGCTCTGTGAGGTCGGCTCA	eca-miR-1842	21	
2065	TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	1	39	
2066	t1156551	20	1	TGTCACTCGGCCACTACCC	oar-miR-668-3p	21	
2067	ATGTCACTCGGCCACTACCC	mir-668	20	0	1	37	

2068	t1162273	19	1	TGGGTTCTGGCATGCTGA	hsa-miR-23b-5p	22	
2069				TGGGTTCTGGCATGCTGATTT	mir-23	19	0 3 29
2070	t1169997	22	1	TGGGACTTTGTAGGCCAGTTGA	bta-miR-193a	19	
2071				GGGACTTTGTAGGCCAGTT	undef	19	0 3 29
2072	t1170873	22	1	TGGCTCTGTGAGGTCGGCTCAA	eca-miR-1842	21	
2073				TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0 1 39
2074	t1218679	21	1	TGAAAAGTTCCTTCGGGTTTT	bta-miR-2284x	21	
2075				TGAAAAGTTCGTTTCGGGTTTT	mir-2284	20	1 0 39
2076	t1218681	19	1	TGAAAAGTTCCTTCGGGTT	bta-miR-2284x	21	TGAAAAGTTCGTTTCGGGTTTT
2077				mir-2284	18	1	2 29
2078	t1263067	22	1	TACTGCCTGGTAATGATGACGC	rno-miR-200b-3p	23	
2079				TAATACTGCCTGGTAATGATGAC	mir-8	20	0 5 25
2080	t1263069	21	1	TACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23	
2081				TAATACTGCCTGGTAATGATGAC	mir-8	20	0 4 28
2082	t1276833	21	1	TAAAGTTCATTCGGGTTTTTT	bta-miR-2284n	21	
2083				AAAAAGTTTATTCGGGTTTTTT	mir-2284	18	2 2 28
2084	t1277621	20	1	TAAAAGTTTGTGGGTTTTT	bta-miR-2284ab	21	
2085				TAAAAGTTTGGTTGGGTTTTT	mir-2284	19	1 1 34
2086	t1278219	23	1	TAAAAGTTCGTTTGGGTTTTCT	bta-miR-2284z	22	
2087				AAAAAGTTTGTGGGTTTTT	mir-2284	20	2 1 35
2088	t1278221	20	1	TAAAAGTTCGTTTGGGTTT	bta-miR-2284v	20	
2089				AAAAAGTTCGTTTGGGTTT	undef	19	0 2 32
2090	t1282339	20	1	GTGGAGGAGGAGGAGGAGGA	hsa-miR-7847-3p	21	
2091				CGTGGAGGACGAGGAGGAGGC	undef	18	2 1 31
2092	t1345735	19	1	GAAAGTTTGTGGGTTTTT	bta-miR-2284m	20	GAAAGTTTGTTCGGGTTTT
2093				mir-2284	18	1	1 32
2094	t1345741	19	1	GAAAGTTGGTTGGATTTT	bta-miR-2284p	21	TGAAAGTTTGTTCGGGATTTT
2095				mir-2284	17	2	2 26
2096	t1345749	20	1	GAAAGTTCGTTTCGGGTTTTT	bta-miR-2284k	21	
2097				GAAAAGTTCGGTTCGGGTTTTT	mir-2284	19	1 1 34
2098	t1346659	20	1	GAAAAGTTCCTTCGGGTTTTT	bta-miR-2284x	21	
2099				TGAAAAGTTCGTTTCGGGTTTTT	mir-2284	19	1 1 34
2100	t1347085	21	1	GAAAAACCAAACGAACTTTTG	bta-miR-2285j	22	
2101				AAAAACCAGAACGAACTTTTG	mir-2284	20	0 3 31
2102	t1428491	18	1	CCAAACCAGTTGTGCCTG	hsa-miR-6715a-3p	21	
2103				CCAAACCAGTCGTGCCTGTGG	mir-6715	17	1 3 24
2104	t1479267	21	1	CAAACCAGTTGTGCCTGTAGA	hsa-miR-6715a-3p	21	
2105				CCAAACCAGTCGTGCCTGTGG	mir-6715	18	2 2 28
2106	t1486051	22	1	ATGGGGATCTTTAGTTGTGGT	bta-miR-3432	22	
2107				TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	1 2 33
2108	t1488125	23	1	ATGCGGGATTTTTAGTTGTGGTA	bta-miR-3432	22	
2109				TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	2 1 35
2110	t1489631	21	1	ATGAGGGATCTTTAGTTGTGG	bta-miR-3432	22	
2111				TGCGGGATCTTTAGTTGTGGTG	mir-3432	19	1 3 28

2112	t1491959	22	1	ATCTCGCCCGCAAAGACCCAGC	rno-miR-3549	19	
2113				ATCTTGCCCGCAAAGACCC	mir-193	18	1 3 26
2114	t1543119	20	1	AGAAAGTTTGTGGGGTTTT	bta-miR-2284p	21	
2115				TGAAAGTTTGTTCGGGATTTT	mir-2284	18	2 1 31
2116	t1543357	22	1	AGAAACCCAGACGAACTTTTGT	bta-miR-2285j	22	
2117				AAAAACCAGAACGAACTTTTGT	mir-2284	20	1 2 33
2118	t1568111	21	1	ACAAAGTTTGTTCGGGTTTTT	bta-miR-2284n	21	
2119				AAAAAGTTTATTCGGGTTTTT	mir-2284	19	2 0 36
2120	t1568113	20	1	ACAAAGTTTGTTCGGGTTTT	bta-miR-2284m	20	
2121				GAAAAGTTTGTTCGGGTTTT	mir-2284	18	2 0 34
2122	t1568123	20	1	ACAAAGTTCGTTTCAGGTTTT	bta-miR-2284j	20	
2123				GAAAAGTTCGTTTCAGGTTTT	mir-2284	18	2 0 34
2124	t1573563	22	1	AATAAGTTCGTTTCAGGTTTTTC	bta-miR-2284y	21	
2125				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1 1 36
2126	t1573565	20	1	AATAAGTTCGTTTCAGGTTTT	bta-miR-2284j	20	
2127				GAAAAGTTCGTTTCAGGTTTT	mir-2284	18	2 0 34
2128	t1574061	18	1	AAGTTCTTTCGGGTTTTT	bta-miR-2284y	21	AAAAGTTCGTTTCGGGTTTTTC
2129				mir-2284	17	1 3 24	
2130	t1574113	19	1	AAGTTCGTTTCAGGTTTTTT	bta-miR-2284u	21	AAAAGTTCGTTTCGGGTTTTTCT
2131				mir-2284	18	0 4 24	
2132	t1575615	19	1	AAGTTCGTTTCAGGTTTTTT	bta-miR-2284y	21	AAAAGTTCGTTTCGGGTTTTTC
2133				mir-2284	17	2 2 26	
2134	t1586273	22	1	AAGAAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22	
2135				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2 0 38
2136	t1586275	21	1	AAGAAGTTCGTTTGGGTTTTT	bta-miR-2284a	20	
2137				AAAAGTTCGTTGGGGTTTTT	mir-2284	19	1 1 34
2138	t1586281	19	1	AAGAAGTTCGTTTGGGTTT	bta-miR-2284v	20	AAAAAGTTCGTTTGGGGTTT
2139				undef	18	1 1 32	
2140	t1592315	22	1	AACCTGAACAACTTTTTGGCA	bta-miR-2285c	22	
2141				AAACCTGAACAACTTTTTGGC	mir-2284	21	0 2 36
2142	t1595587	21	1	ACAAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22	
2143				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	19	2 1 33
2144	t1596283	22	1	AAATGTTTCGTTTCAGGTTTTTCT	bta-miR-2284u	21	
2145				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	1 1 36
2146	t1596285	19	1	AAATGTTTCGTTTCAGGTTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
2147				mir-2284	18	1 1 32	
2148	t1598231	20	1	AAAGTTCGTTTCGGGTTTTTT	bta-miR-2284y	21	
2149				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1 1 34
2150	t1598235	20	1	AAAGTTCGTTTCAGGTTTTTT	bta-miR-2284u	21	
2151				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	19	0 3 29
2152	t1599423	21	1	AAAGTTCGTTTGGGTTTTTT	bta-miR-2284a	20	
2153				AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2 1 31
2154	t1599425	19	1	AAAGTTCGTTTGGGTTTT	bta-miR-2284a	20	AAAAGTTCGTTGGGGTTTTT
2155				mir-2284	17	2 1 29	

2156	t1599451	21	1	AAAGTTCGTTTCAGGTTTTTC	bta-miR-2284y	21
2157				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19 2 0 36
2158	t1603931	22	1	AAAGAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22
2159				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20 2 0 38
2160	t1603935	19	1	AAAGAGTTCGTTTGGGTTT	bta-miR-2284v	20 AAAAAGTTCGTTTGGGGTTT
2161	undef	18	1	1 32		
2162	t1603945	21	1	AAAGAGTTCGTTTCGGGTTTTT	bta-miR-2284y	21
2163				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20 0 2 34
2164	t1605283	22	1	AAACTGGCAGCTTCATGTAATT	bta-miR-7859	22
2165				AAAAACTGGCAGCTTCATGTAA	undef	20 0 4 28
2166	t1606903	24	1	AAACCTGAATGAACTTTTTGGCAA	bta-miR-2285e	22
2167				AAACCTGAACGAACTTTTTGGC	mir-2284	21 1 2 35
2168	t1607105	23	1	AAACCCTGAATGAACTTTTTGGC	bta-miR-2285f	22
2169				AAACCTGAATGAACTTTTTGG	mir-2284	21 1 1 38
2170	t1607453	19	1	AAACAGTTCGTTTGGGTTT	bta-miR-2284v	20 AAAAAGTTCGTTTGGGGTTT
2171	undef	18	1	1 32		
2172	t1608017	21	1	AAAATGTTCGTTGGGGTTTTT	bta-miR-2284a	20
2173				AAAAGTTCGTTGGGGTTTTT	mir-2284	20 0 1 37
2174	t1608441	22	1	AAAAGTTCCTTCAGGTTTTTCT	bta-miR-2284u	21
2175				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20 1 1 36
2176	t1608463	21	1	AAAAGTTCGTTTGGGTTTTTA	bta-miR-2284b	21
2177				AAAAGTTCGTTTGGTTTTTTC	mir-2284	19 2 0 36
2178	t1608465	20	1	AAAAGTTCGTTTGGGTTTTC	bta-miR-2284b	21
2179				AAAAGTTCGTTTGGTTTTTTC	mir-2284	19 1 1 34
2180	t1608467	21	1	AAAAGTTCGTTTGGGTTTTAA	bta-miR-2284a	20
2181				AAAAGTTCGTTGGGGTTTTT	mir-2284	18 2 1 31
2182	t1608471	20	1	AAAAGTTCGTTTAGGTTTTT	bta-miR-2285ae	22
2183				AGAAAGTTCATTTAGGTTTTTC	mir-2284	19 1 2 31
2184	t1608475	20	1	AAAAGTTCGTTCTGGTTTTT	bta-miR-2284y	21
2185				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19 1 1 34
2186	t1608505	22	1	AAAAGTTCGTTTCAGGTTTTTCA	bta-miR-2284u	21
2187				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20 1 1 36
2188	t1608513	20	1	AAAAGTTCGTTTCAGGTTTTT	bta-miR-2284j	20
2189				GAAAAGTTCGTTTCAGGTTTTT	mir-2284	19 0 2 32
2190	t1608515	20	1	AAAAGTTCGTTCAAGTTTTT	bta-miR-2284y	21
2191				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	18 2 1 31
2192	t1608711	20	1	AAAAGGTTTCGTTTGGGTTTTT	bta-miR-2284c	20
2193				AAAAAGTTCGTTTTGGTTTTT	mir-2284	18 2 0 34
2194	t1610927	21	1	AAAACGTTTCGTTTGGGTTTTT	bta-miR-2284a	20
2195				AAAAGTTCGTTGGGGTTTTT	mir-2284	19 1 1 34
2196	t1610931	20	1	AAAACGTTTCGTTTGGGTTTTT	bta-miR-2284c	20
2197				AAAAAGTTCGTTTTGGTTTTT	mir-2284	18 2 0 34
2198	t1610933	20	1	AAAACGTTTCGTTTCAGGTTTTT	bta-miR-2284j	20
2199				GAAAAGTTCGTTTCAGGTTTTT	mir-2284	18 2 0 34

2200	t1611361	20	1	AAAAACACGAACAAACTTTTT	bta-miR-2285y	21			
2201				AAAACCCAAACAAACTTTTTT	mir-2284	18	2	1	31
2202	t1611549	21	1	AAAAAGTTCGTTTGGATTTTT	bta-miR-2284d	22			
2203				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	19	2	1	33
2204	t1611551	22	1	AAAAAGTTCGTTTAGGTTTTTC	bta-miR-2284d	22			
2205				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38
2206	t1611553	20	1	AAAAAGTTCGTTTAGGTTTT	bta-miR-2284c	20			
2207				AAAAAGTTCGTTTTGGTTTT	mir-2284	19	1	0	37
2208	t1611563	22	1	AAAAAGTTCGTTCCGGTTTTTC	bta-miR-2284d	22			
2209				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38
2210	t1611577	24	1	AAAAAGTTCGTTTCAAGTTTTCAA	bta-miR-2284d	22			
2211				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	2	32
2212	t1611581	20	1	AAAAAGTTCGTTTCAAGTTTA	bta-miR-2284j	20			
2213				GAAAAGTTCGTTTCAAGTTTT	mir-2284	18	2	0	34
2214	t1611683	20	1	AAAAAGTTCGTTTGGGTTTT	bta-miR-2284v	20			
2215				AAAAAGTTCGTTTGGGGTTT	undef	18	2	0	34
2216	t1611685	19	1	AAAAAGTTCGTTTGGGTTT	bta-miR-2284v	20			AAAAAGTTCGTTTGGGGTTT
2217	undef	18	1	1	32				
2218	t1611901	23	1	AAAAACTGGCAGCTTCATGTAAT	bta-miR-7859	22			
2219				AAAAACTGGCAGCTTCATGTAA	undef	22	0	1	41
2220	t1612015	22	1	AAAAACCTGAATGACCCTTTTG	bta-miR-2285f	22			
2221				AAAACTGAATGAACTTTTTGG	mir-2284	19	2	2	30
2222	t1614061	23	233	TAATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23			
2223				TAATACTGCCTGGTAATGATGAC	mir-8	23	0	0	46
2224	t1616085	22	86	TGCGGGATCTTTAGTTGTGGTA	bta-miR-3432	22			
2225				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	0	41
2226	t1616661	22	73	AAAAAGTTCGTTTGGGTTTTCT	bta-miR-2284z	22			
2227				AAAAAAGTTTTGTTGGGTTTTT	mir-2284	20	1	2	33
2228	t1617927	21	51	AAAGTTCGTTTCGGGTTTTTC	bta-miR-2284y	21			
2229				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	0	39
2230	t1618019	22	49	TGGGTTCTGGCATGCTGATTT	hsa-miR-23b-5p	22			
2231				TGGGTTCTGGCATGCTGATTT	mir-23	22	0	0	44
2232	t1618971	23	40	TGCGGGATCTTTAGTTGTGGTAT	bta-miR-3432	22			
2233				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	1	38
2234	t1619189	20	39	AAAGTTCGTTTCGGGTTTTT	bta-miR-2284y	21			
2235				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	1	34
2236	t1619717	21	35	AAAAAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22			
2237				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	1	1	36
2238	t1620025	24	33	TAATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23			
2239				TAATACTGCCTGGTAATGATGAC	mir-8	23	0	1	43
2240	t1620263	20	32	AAGAGTTCGTTTCGGGTTTTT	bta-miR-2284y	21			
2241				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	1	34
2242	t1620669	22	30	CTATACAACCTACTGCCTTCCT	hsa-let-7b-3p	22			
2243				CTATACAACCTACTGCCTTCCC	let-7	21	1	0	41

2244	t1620729	21	30	AAGAGTTCGTTCCGGGTTTTTC	bta-miR-2284y	21
2245	AAAAGTTCGTTCCGGGTTTTTC	mir-2284	20	1	0	39
2246	t1620735	22	30	AAACGTTTCGTTCCAGGTTTTTCT	bta-miR-2284u	21
2247	AAAAGTTCGTTCCGGTTTTTCT	mir-2284	20	1	1	36
2248	t1621405	21	27	GAAAAGTTCGTTTGGGTTTTT	bta-miR-2284k	21
2249	GAAAAGTTCGGTCCGGGTTTTT	mir-2284	19	2	0	36
2250	t1621989	21	25	AAGAAGTTCGTTCCAGGTTTTT	bta-miR-2284y	21
2251	AAAAGTTCGTTCCGGGTTTTTC	mir-2284	19	1	2	31
2252	t1622513	22	23	GAAAAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22
2253	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38
2254	t1622631	20	23	AAAAGTTCGTTCCGGGTTTTT	bta-miR-2284y	21
2255	AAAAGTTCGTTCCGGGTTTTTC	mir-2284	19	1	1	34
2256	t1622953	20	22	AAACGTTTCGTTCCAGGTTTTT	bta-miR-2284y	21
2257	AAAAGTTCGTTCCGGGTTTTTC	mir-2284	18	2	1	31
2258	t1623369	21	21	AAAGAGTTCGTTCCAGGTTTTT	bta-miR-2284y	21
2259	AAAAGTTCGTTCCGGGTTTTTC	mir-2284	19	1	2	31
2260	t1623787	21	20	AAAAGTTCGTTCCGGGTTTTTC	bta-miR-2284y	21
2261	AAAAGTTCGTTCCGGGTTTTTC	mir-2284	20	1	0	39
2262	t1625287	20	17	AAGAGTTCGTTCCAGGTTTTT	bta-miR-2284y	21
2263	AAAAGTTCGTTCCGGGTTTTTC	mir-2284	18	2	1	31
2264	t1627305	20	14	AAAGGTTTCGTTCCAGGTTTTT	bta-miR-2284y	21
2265	AAAAGTTCGTTCCGGGTTTTTC	mir-2284	18	2	1	31
2266	t1627325	20	14	AAAAGTTCGTTCCGGGTTTTT	bta-miR-2284g	20
2267	AAAAGTTCGTTCCGGGTTTTT	mir-2284	19	0	2	32
2268	t1627411	21	13	TGGGTTCCCTGGCATGCTGATT	hsa-miR-23b-5p	22
2269	TGGGTTCCCTGGCATGCTGATTT	mir-23	21	0	1	39
2270	t1628097	22	13	AAGAAGTTCGTTCCAGGTTTTTC	bta-miR-2284y	21
2271	AAAAGTTCGTTCCGGGTTTTTC	mir-2284	20	1	1	36
2272	t1628785	20	12	GAAAGTTTGGTGGGTTTTT	bta-miR-2284a	20
2273	AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	0	34
2274	t1629109	22	12	AAAGAGTTCGTTCCAGGTTTTTC	bta-miR-2284y	21
2275	AAAAGTTCGTTCCGGGTTTTTC	mir-2284	20	1	1	36
2276	t1629117	21	12	AAAAGTTCGTTCCGGGTTTTTC	bta-miR-2284u	21
2277	AAAAGTTCGTTCCGGTTTTTCT	mir-2284	20	0	2	34
2278	t1629141	22	12	AAAAAGTTCGTTCCGGGTTTTTC	bta-miR-2284d	22
2279	AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38
2280	t1629143	21	12	AAAAAGTTCGTTCCGGGTTTTT	bta-miR-2284c	20
2281	AAAAAGTTCGTTTTGGTTTTT	mir-2284	19	1	1	34
2282	t1630263	21	11	AAAAGTTCGTTCCGGGTTTTTT	bta-miR-2284y	21
2283	AAAAGTTCGTTCCGGGTTTTTC	mir-2284	20	1	0	39
2284	t1631621	20	10	AAAAGTTCGTTCCGGGTTTTT	bta-miR-2284y	21
2285	AAAAGTTCGTTCCGGGTTTTTC	mir-2284	19	1	1	34
2286	t1632451	21	9	TCAGGGAGCTCACAGTCTAGT	mmu-miR-151-5p	21
2287	TCGAGGAGCTCACAGTCTAGT	mir-28	19	2	0	36

2288	t1632463	22	9	TCAAGGTCCGCTGTGAACACGG	gga-miR-124c-3p	22			
2289				TCAAGGTCCGCTGTGAACACGG	mir-124	22	0	0	44
2290	t1632837	22	9	ATGAGGGATCTTTAGTTGTGGT	bta-miR-3432	22			
2291				TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	1	2	33
2292	t1635321	23	8	AAACCTGAATGAACTTTTTGGCA	bta-miR-2285e	22			
2293				AAACCTGAACGAACTTTTTGGC	mir-2284	21	1	1	38
2294	t1635567	20	7	TGGGTTCTGGCATGCTGAT	hsa-miR-23b-5p	22			
2295				TGGGTTCTGGCATGCTGATTT	mir-23	20	0	2	34
2296	t1635649	21	7	TGGCTCTGTGAGGTCGGCTCA	eca-miR-1842	21			
2297				TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	0	42
2298	t1636829	22	7	TAAAAAGTTCGTTGGGTTTTTC	bta-miR-2284d	22			
2299				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	1	2	33
2300	t1637217	21	7	ATGAGGGATCTTTAGTTGTGG	bta-miR-3432	22			
2301				TGCGGGATCTTTAGTTGTGGTG	mir-3432	19	1	3	28
2302	t1637307	23	7	ATACTGCCTGGTAATGATGACGC	rno-miR-200b-3p	23			
2303				TAATACTGCCTGGTAATGATGAC	mir-8	21	0	4	30
2304	t1637867	21	7	AAAGTTCGTTTCAGGTTTTTC	bta-miR-2284y	21			
2305				AAAAGTTCGTTTCAGGTTTTTC	mir-2284	19	2	0	36
2306	t1637925	21	7	AAACGTTTCGTTTCAGGTTTTTC	bta-miR-2284y	21			
2307				AAAAGTTCGTTTCAGGTTTTTC	mir-2284	19	2	0	36
2308	t1638755	22	6	TGCAGGATCTTTAGTTGTGGTG	bta-miR-3432	22			
2309				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	0	41
2310	t1640051	22	6	GAAAAGTTGTTGGGGTTTTTCT	bta-miR-2284a	20			
2311				AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	2	28
2312	t1640513	22	6	ATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23			
2313				TAATACTGCCTGGTAATGATGAC	mir-8	21	0	3	33
2314	t1641031	23	6	AATACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23			
2315				TAATACTGCCTGGTAATGATGAC	mir-8	22	0	2	38
2316	t1641035	21	6	AATAAGTTCGTTTGGGTTTTT	bta-miR-2284a	20			
2317				AAAAGTTCGTTGGGGTTTTT	mir-2284	19	1	1	34
2318	t1641093	21	6	AAGAGTTCGTTTCAGGTTTTTC	bta-miR-2284y	21			
2319				AAAAGTTCGTTTCAGGTTTTTC	mir-2284	19	2	0	36
2320	t1641095	19	6	AAGAGTTCGTTTCAGGTTTT	bta-miR-2284j	20			GAAAAGTTCGTTTCAGGTTTT
2321				mir-2284	18	1	1	32	
2322	t1641225	20	6	AAATGTTTCGTTTCAGGTTTTT	bta-miR-2284y	21			
2323				AAAAGTTCGTTTCAGGTTTTTC	mir-2284	18	2	1	31
2324	t1641243	19	6	AAAGTTCGTTTCAGGTTTT	bta-miR-2284x	21			TGAAAAGTTCGTTTCAGGTTTT
2325				mir-2284	18	1	2	29	
2326	t1641353	21	6	AAAAGTTCGTTTCAGGTTTTTC	bta-miR-2284y	21			
2327				AAAAGTTCGTTTCAGGTTTTTC	mir-2284	20	1	0	39
2328	t1641427	23	6	AAAAAGTTCGTTTCAGGTTTTTCA	bta-miR-2284d	22			
2329				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	1	35
2330	t1644333	22	5	GCTAAAAAGTTCGTTTGGGTTT	bta-miR-2284v	20			
2331				AAAAAGTTCGTTTGGGGTTT	undef	19	0	4	26

2332	t1645841	21	5	AAGAAGTTCGTTTGGGTTTTT	bta-miR-2284a	20			
2333				AAAAGTTCGTTGGGGTTTTT	mir-2284	19	1	1	34
2334	t1645973	22	5	AAATGTTTCGTTTCAGGTTTTTCT	bta-miR-2284u	21			
2335				AAAAGTTCGTTTCGTTTTTCT	mir-2284	20	1	1	36
2336	t1646101	20	5	AAAGAGTTCGTTTCAGGTTTT	bta-miR-2284j	20			
2337				GAAAAGTTCGTTTCAGGTTTT	mir-2284	18	2	0	34
2338	t1646151	20	5	AAACAGTTCGTTTGGGTTTT	bta-miR-2284c	20			
2339				AAAAAGTTCGTTTTGGTTTT	mir-2284	18	2	0	34
2340	t1646233	22	5	AAAACCTGAATGAACTTTTTGGC	bta-miR-2285f	22			
2341				AAAACCTGAATGAACTTTTTGG	mir-2284	21	0	2	36
2342	t1646239	19	5	AAAACACGAACAACTTTT	bta-miR-2285y	21			AAAACCCAAACAACTTTTTT
2343				mir-2284	17	2	2	26	
2344	t1652569	23	4	AATGTGGAAGTGGTCTGAGGCAT	hsa-miR-4657	23			
2345				AATGTGGAAGTGGTCTGAGGCAT	undef	23	0	0	46
2346	t1652629	22	4	AATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23			
2347				TAATACTGCCTGGTAATGATGAC	mir-8	22	0	1	41
2348	t1652635	22	4	AATAAGTTCGTTTCAGGTTTTTC	bta-miR-2284y	21			
2349				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	1	36
2350	t1652637	21	4	AATAAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21			
2351				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	2	31
2352	t1653331	21	4	AAAAGTTCGTTTCAGGTTTTTT	bta-miR-2284u	21			
2353				AAAAGTTCGTTTCGTTTTTCT	mir-2284	20	0	2	34
2354	t1653441	21	4	AAAACGTTTCGTTTCAGGTTTTT	bta-miR-2284y	21			
2355				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1	2	31
2356	t1653455	21	4	AAAAAGTTCGTTTAGGTTTTT	bta-miR-2284c	20			
2357				AAAAAGTTCGTTTTGGTTTT	mir-2284	19	1	1	34
2358	t1653457	22	4	AAAAAGTTCGTTTCAGGTTTTTA	bta-miR-2284y	21			
2359				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2	1	33
2360	t1653463	21	4	AAAAAGTTAGTTTAGGTTTTT	bta-miR-2284z	22			
2361				AAAAAAGTTTGTGGTTTTT	mir-2284	19	2	1	33
2362	t1661087	21	3	GAAAGTTTGTGGGTTTTTC	bta-miR-2284a	20			
2363				AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	1	31
2364	t1661103	20	3	GAAAAGTTCGTTTGGGTTTT	bta-miR-2284x	21			
2365				TGAAAAGTTCGTTTCGGGTTTT	mir-2284	19	1	1	34
2366	t1662127	21	3	CACAATACACGGTCGGCCTCT	oar-miR-323c	21			
2367				CACAATACACGGTCGGCCTCT	mir-154	21	0	0	42
2368	t1662713	24	3	ATCACATTGCCAGGGATTACCACG	ptr-miR-23b	23			
2369				ATCACATTGCCAGGGATTACCAC	mir-23	23	0	1	43
2370	t1664367	21	3	ACAAAGTTTGTTCGGGTTTTA	bta-miR-2284m	20			
2371				GAAAAGTTTGTTCGGGTTTT	mir-2284	18	2	1	31
2372	t1664369	22	3	ACAAAGTTCGTTTCAGGTTTTTC	bta-miR-2284y	21			
2373				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	1	36
2374	t1665205	20	3	AAAGTTCTTTCAGGTTTTT	bta-miR-2284j	20			
2375				GAAAAGTTCGTTTCAGGTTTT	mir-2284	17	2	2	26

2376	t1665457	20	3	AAAGAGTTCGTTTGGGTTTT	bta-miR-2284c	20	
2377				AAAAAGTTCGTTTGGT	mir-2284	18	2 0 34
2378	t1665629	22	3	AAACCTGAATGAACTTTTGGT	bta-miR-2285f	22	
2379				AAAACCTGAATGAACTTTTGG	mir-2284	21	0 2 36
2380	t1665665	21	3	AAAATGTTTCGCTTGGCTTTT	bta-miR-2284ac	22	
2381				AAATGTTTCGCTTGGCTTTTCC	mir-2284	20	0 3 31
2382	t1665671	22	3	AAAAGTTCTTTCGGGTTTTTCT	bta-miR-2284u	21	
2383				AAAAGTTCTTTCGGGTTTTTCT	mir-2284	20	1 1 36
2384	t1665673	19	3	AAAAGTTCTTTCGGGTTTT	bta-miR-2284x	21	TGAAAAGTTCGTTTCGGGTTTT
2385				mir-2284	18	1 2 29	
2386	t1665675	22	3	AAAAGTTCTTTCAGGTTTTTCT	bta-miR-2284u	21	
2387				AAAAGTTCTTTCAGGTTTTTCT	mir-2284	20	1 1 36
2388	t1665679	20	3	AAAAGTTCTTTCGGGTTTT	bta-miR-2284y	21	
2389				AAAAGTTCTTTCGGGTTTTTC	mir-2284	19	1 1 34
2390	t1665919	22	3	AAAACCTGAACAAGCTTTTGGC	bta-miR-2285c	22	
2391				AAACCTGAACAAGCTTTTGGC	mir-2284	20	2 0 38
2392	t1665943	21	3	AAAAAGTTCGTTTGGGTTTTA	bta-miR-2284c	20	
2393				AAAAAGTTCGTTTGGGTTTT	mir-2284	19	1 1 34
2394	t1665947	22	3	AAAAAGTTCGTTTCAGGTTTTT	bta-miR-2284u	21	
2395				AAAAAGTTCGTTTCAGGTTTTTCT	mir-2284	20	0 3 31
2396	t1665953	22	3	AAAAAGTTAGTTAGGTTTTTC	bta-miR-2284z	22	
2397				AAAAAGTTAGTTAGGTTTTT	mir-2284	19	2 2 30
2398	t1669541	20	2	TGGCTCTGTGAGGTCGGCTC	eca-miR-1842	21	
2399				TGGCTCTGTGAGGTCGGCTCA	mir-1842	20	0 1 37
2400	t1672271	20	2	TGCGGGATCTTTCGTTGTGG	bta-miR-3432	22	
2401				TGCGGGATCTTTCGTTGTGG	mir-3432	19	1 2 31
2402	t1672417	23	2	TGCAGGATCTTTCGTTGTGGT	bta-miR-3432	22	
2403				TGCAGGATCTTTCGTTGTGGT	mir-3432	21	1 1 38
2404	t1681581	21	2	TAAAAAGTTCGTTTGGGTTTT	bta-miR-2284aa	21	
2405				AAAAAGTTCGTTTGGGTTTT	mir-2284	19	2 0 36
2406	t1683383	19	2	GAAAAGTTGTTGGGTTTT	bta-miR-2284m	20	GAAAAGTTGTTTCGGGTTTT
2407				mir-2284	18	1 1 32	
2408	t1683387	20	2	GAAAAGTTCGTTTCGGGTTTT	bta-miR-2284k	21	
2409				GAAAAGTTCGTTTCGGGTTTT	mir-2284	19	1 1 34
2410	t1683409	19	2	GAAAAGTTCGTTTGGGTTT	bta-miR-2284v	20	AAAAAGTTCGTTTGGGTTT
2411				undef	18	1 1 32	
2412	t1685243	22	2	CCAAACCAGTTGTCCTGTAGA	hsa-miR-6715a-3p	21	
2413				CCAAACCAGTTGTCCTGTGG	mir-6715	19	2 1 33
2414	t1686723	23	2	ATGGGGATCTTTCGTTGTGGTA	bta-miR-3432	22	
2415				TGCGGGATCTTTCGTTGTGGTA	mir-3432	20	2 1 35
2416	t1686857	23	2	ATGAGGGATCTTTCGTTGTGGTA	bta-miR-3432	22	
2417				TGCGGGATCTTTCGTTGTGGTA	mir-3432	20	2 1 35
2418	t1691557	20	2	ACAAAGTTCGTTTCAGGTTTT	bta-miR-2284j	20	
2419				GAAAAGTTCGTTTCAGGTTTT	mir-2284	18	2 0 34

2420	t1692679	22	2	AAGAAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22			
2421				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38
2422	t1693159	22	2	AACCTGAATGAACTTTTTGGCA	bta-miR-2285e	22			
2423				AAACCTGAACGAACTTTTTGGC	mir-2284	20	1	2	33
2424	t1693731	21	2	AAAGTTCCTTCAGGTTTTTC	bta-miR-2284u	21			
2425				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	18	2	2	28
2426	t1693737	21	2	AAAGTTCGTTTGGGTTTTTC	bta-miR-2284b	21			
2427				AAAAGTTCGTTTGGTTTTTTC	mir-2284	19	2	0	36
2428	t1693739	20	2	AAAGTTCGTTTGGGTTTTT	bta-miR-2284a	20			
2429				AAAAGTTCGTTGGGGTTTTT	mir-2284	18	2	0	34
2430	t1693745	19	2	AAAGTTCGTTTCAGGTTTT	bta-miR-2284j	20			GAAAAGTTCGTTTCAGGTTTT
2431				mir-2284	18	1	1	32	
2432	t1694303	22	2	AAAGAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22			
2433				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38
2434	t1694333	22	2	AAAGAAGTTGTTTGGGTTTTT	bta-miR-2284z	22			
2435				AAAAAAGTTGTTTGGGTTTTT	mir-2284	21	1	0	41
2436	t1694395	19	2	AAACGTTTCGTTTCAGGTTTT	bta-miR-2284j	20			GAAAAGTTCGTTTCAGGTTTT
2437				mir-2284	18	1	1	32	
2438	t1694623	23	2	AAACCTGAACAAACTTTTTGGCA	bta-miR-2285c	22			
2439				AAACCTGAACAAACTTTTTGGC	mir-2284	22	0	1	41
2440	t1694663	22	2	AAACAGTTCGTTTGGGTTTTTC	bta-miR-2284d	22			
2441				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38
2442	t1694665	21	2	AAACAGTTCGTTTGGGTTTTT	bta-miR-2284a	20			
2443				AAAAGTTCGTTGGGGTTTTT	mir-2284	19	1	1	34
2444	t1694733	20	2	AAAAGTTCCTTCAGGTTTTT	bta-miR-2284y	21			
2445				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	18	2	1	31
2446	t1694739	22	2	AAAAGTTCGTTTGGGTTTTTCA	bta-miR-2284b	21			
2447				AAAAGTTCGTTTGGTTTTTTC	mir-2284	20	1	1	36
2448	t1694745	21	2	AAAAGTTCGTTCCGGTTTTTC	bta-miR-2284y	21			
2449				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	20	1	0	39
2450	t1694749	22	2	AAAAGTTCGTTTCAGGTTTTTCA	bta-miR-2284u	21			
2451				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	1	1	36
2452	t1694751	21	2	AAAAGTTCGTTTCAGGTTTTTA	bta-miR-2284y	21			
2453				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	2	0	36
2454	t1695227	22	2	AAAAAGTTCGTTTGGATTTTTTC	bta-miR-2284d	22			
2455				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38
2456	t1695233	22	2	AAAAAGTTCGTTCCGGTTTTTC	bta-miR-2284d	22			
2457				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	0	38
2458	t1695235	22	2	AAAAAGTTCATTGGGTTGTCT	bta-miR-2284c	20			
2459				AAAAAGTTCGTTTTGGTTTTT	mir-2284	18	2	2	28
2460	t1695261	23	2	AAAAACTGGCAGCTTCATGTAAT	bta-miR-7859	22			
2461				AAAAACTGGCAGCTTCATGTAA	undef	22	0	1	41
2462	t1695273	22	2	AAAAACCTGAATGACCCTTTTG	bta-miR-2285f	22			
2463				AAACCTGAATGAACTTTTTTG	mir-2284	19	2	2	30

2464	t1697131	23	1	TTGGCTCTGTGAGGTCGGCTCAA	eca-miR-1842	21				
2465				TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	2	36	
2466	t1697133	22	1	TTGGCTCTGTGAGGTCGGCTCA	eca-miR-1842	21				
2467				TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	1	39	
2468	t1716753	22	1	TGGGGATCTTTAGTTGTGGTA	bta-miR-3432	22				
2469				TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	2	0	38	
2470	t1717727	22	1	TGGCTCTGTGAGGTCGGCTCAA	eca-miR-1842	21				
2471				TGGCTCTGTGAGGTCGGCTCA	mir-1842	21	0	1	39	
2472	t1730589	23	1	TGCTGGATCTTTAGTTGTGGTGT	bta-miR-3432	22				
2473				TGCGGGATCTTTAGTTGTGGTG	mir-3432	21	1	1	38	
2474	t1731349	22	1	TGCGGGATTTTTAGTTGTGGTA	bta-miR-3432	22				
2475				TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	2	0	38	
2476	t1731387	19	1	TGCGGGATCTTTGTTGTG	bta-miR-3432	22				
2477				TGCGGGATCTTTAGTTGTGGTG	mir-3432	18	1	3	26	
2478	t1733721	21	1	TGAGTGTGTGTGTGTGAGTGA	hsa-miR-574-5p	23				
2479				TGAGTGTGTGTGTGTGAGTGTG	mir-574	20	1	2	33	
2480	t1752661	23	1	TGAAAAGTTCGTTGGGTTTTTC	bta-miR-2284d	22				
2481				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2	1	35	
2482	t1752663	18	1	TGAAAAGTTCGTTGGGT	bta-miR-2284x	21				TGAAAAGTTCGTTGGGTTTT
2483				mir-2284	17	1	3	24		
2484	t1774573	22	1	TACTGCCTGGTAATGATGACGC	rno-miR-200b-3p	23				
2485				TAATACTGCCTGGTAATGATGAC	mir-8	20	0	5	25	
2486	t1774575	21	1	TACTGCCTGGTAATGATGACG	rno-miR-200b-3p	23				
2487				TAATACTGCCTGGTAATGATGAC	mir-8	20	0	4	28	
2488	t1782709	20	1	TAAAGTTCATTCGGGTTTTT	bta-miR-2284y	21				
2489				AAAAGTTCGTTGGGTTTTTC	mir-2284	18	2	1	31	
2490	t1783461	22	1	TAAAAAGTTCGTTGGGTTTTT	bta-miR-2284z	22				
2491				AAAAAAGTTTGTTGGGTTTTT	mir-2284	20	2	0	38	
2492	t1783463	20	1	TAAAAAGTTCGTTGGGTTT	bta-miR-2284v	20				
2493				AAAAAAGTTCGTTGGGTTT	undef	19	0	2	32	
2494	t1804335	20	1	GAAAAGTTGGTTGGATTTTT	bta-miR-2284f	20				
2495				AAAGTTCGTTGGATTTTTTC	mir-2284	17	2	2	26	
2496	t1804575	21	1	GAAAAGTTCGTTGGGTTTTTC	bta-miR-2284d	22				
2497				AAAAAAGTTCGTTAGGGTTTTTC	mir-2284	19	2	1	33	
2498	t1822995	21	1	CCAAACCAGTTGTGCCTGTAG	hsa-miR-6715a-3p	21				
2499				CCAAACCAGTCGTGCCTGTGG	mir-6715	19	2	0	36	
2500	t1835269	22	1	ATGGGGATCTTTAGTTGTGGT	bta-miR-3432	22				
2501				TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	1	2	33	
2502	t1835271	21	1	ATGGGGATCTTTAGTTGTGG	bta-miR-3432	22				
2503				TGCGGGATCTTTAGTTGTGGTG	mir-3432	19	1	3	28	
2504	t1835881	21	1	ATGCGGGATTTTTAGTTGTGG	bta-miR-3432	22				
2505				TGCGGGATCTTTAGTTGTGGTG	mir-3432	19	1	3	28	
2506	t1836505	24	1	ATGAGGGATCTTTAGTTGTGGTAT	bta-miR-3432	22				
2507				TGCGGGATCTTTAGTTGTGGTG	mir-3432	20	2	2	32	

2508	t1842475	24	1	ATACTGCCTGGTAATGATGACGCT	rno-miR-200b-3p	23	
2509				TAATACTGCCTGGTAATGATGAC	mir-8	21	0 5 27
2510	t1842481	21	1	ATACTGCCTGGTAATGATGAC	rno-miR-200b-3p	23	
2511				TAATACTGCCTGGTAATGATGAC	mir-8	21	0 2 36
2512	t1860387	22	1	AGAAGTTCGTTTCAGGTTTTTCT	bta-miR-2284u	21	
2513				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	1 1 36
2514	t1861107	21	1	AGAAAGTTTGTGGGGTTTTT	bta-miR-2284a	20	
2515				AAAAGTTCGTTGGGGTTTTT	mir-2284	19	1 1 34
2516	t1861109	21	1	AGAAAGTTGGTTTGGATTTTT	bta-miR-2284l	20	
2517				AAAAGTTGGTTTCGGGTTTTT	mir-2284	18	2 1 31
2518	t1874405	19	1	ACAAAGTTTGTTCGGGTTT	bta-miR-2284m	20	GAAAAGTTTGTTCGGGTTTT
2519				mir-2284	17	2 1 29	
2520	t1874411	21	1	ACAAAGTTCGTTTCAGGTTTTT	bta-miR-2284y	21	
2521				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1 2 31
2522	t1881417	19	1	AAGAGTTCGTTTGGGTTTT	bta-miR-2284a	20	AAAAGTTCGTTGGGGTTTTT
2523				mir-2284	17	2 1 29	
2524	t1881431	19	1	AAGAGTTCGTTTCGGGTTTT	bta-miR-2284w	21	AAGAGTTTGTTCGGGTTTCTC
2525				mir-2284	18	1 2 29	
2526	t1883387	23	1	AAGAAGTTCGTTTGGGTTTTTCC	bta-miR-2284d	22	
2527				AAAAAGTTCGTTAGGGTTTTTC	mir-2284	20	2 1 35
2528	t1883395	23	1	AAGAAGTTCGTTTCAGGTTTTTCT	bta-miR-2284u	21	
2529				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	21	0 2 36
2530	t1883397	20	1	AAGAAGTTCGTTTCAGGTTTT	bta-miR-2284j	20	
2531				GAAAAGTTCGTTTCAGGTTTT	mir-2284	18	2 0 34
2532	t1891155	22	1	AAAGTTCGTTTCGGGTTTTTCT	bta-miR-2284u	21	
2533				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	20	1 1 36
2534	t1891167	21	1	AAAGTTCGTTTCAGGTTTTT	bta-miR-2284u	21	
2535				AAAAGTTCGTTTCGGTTTTTCT	mir-2284	19	1 2 31
2536	t1894343	19	1	AAAGAGTTCGTTTCAGGTTT	bta-miR-2284j	20	GAAAAGTTCGTTTCAGGTTTT
2537				mir-2284	17	2 1 29	
2538	t1894731	21	1	AAAGAAGTTTGTGGGTTTT	bta-miR-2284aa	21	
2539				AAAAAAGTTTGTGGGTTTT	mir-2284	20	1 0 39
2540	t1896235	20	1	AAACCTGAGTGAACCTTTTCA	bta-miR-2312	20	
2541				AAAACCTGAACGAACCTTTTC	undef	17	2 2 26
2542	t1896243	23	1	AAACCTGAATGAACCTTTTGGCT	bta-miR-2285e	22	
2543				AAACCTGAACGAACCTTTTGGC	mir-2284	21	1 1 38
2544	t1896247	25	1	AAACCTGAATGAACCTTTTGGCAGA	bta-miR-2285e	22	
2545				AAACCTGAACGAACCTTTTGGC	mir-2284	21	1 3 32
2546	t1896447	23	1	AAACCCAGATGAACCTTTTGGCT	bta-miR-2285l	23	
2547				AAAACCCGCATGAACCTTTTGGC	mir-2284	20	2 2 32
2548	t1896821	21	1	AAAATGTTTCGTTGGGTTTTT	bta-miR-2284a	20	
2549				AAAAGTTCGTTGGGGTTTTT	mir-2284	20	0 1 37
2550	t1896823	21	1	AAAATGTTTCGTTTCAGGTTTTT	bta-miR-2284y	21	
2551				AAAAGTTCGTTTCGGGTTTTTC	mir-2284	19	1 2 31

2552	t1896825	22	1	AAAATGTTTCGCTTGGCTTTTTC	bta-miR-2284ac	22			
2553				AAATGTTTCGCTTGGCTTTTTC	mir-2284	21	0	2	36
2554	t1896929	22	1	AAAATCTGAATGAACTTTTTGG	bta-miR-2285b	22			
2555				AAAATCTGAGTGAACCTTTTTGG	mir-2284	21	1	0	41
2556	t1897039	21	1	AAAAGTTCTTTCAGGTTTTTT	bta-miR-2284u	21			
2557				AAAAGTTTCGTTTCGGTTTTTCT	mir-2284	19	1	2	31
2558	t1897041	21	1	AAAAGTTCTTTCAGGTTTTTC	bta-miR-2284y	21			
2559				AAAAGTTTCGTTTCGGGTTTTTC	mir-2284	19	2	0	36
2560	t1897059	21	1	AAAAGTTTCGTTTGGGTTTTTT	bta-miR-2284b	21			
2561				AAAAGTTTCGTTTGGGTTTTTTC	mir-2284	19	2	0	36
2562	t1897063	23	1	AAAAGTTTCGTTTGGGTTTTTCAT	bta-miR-2284u	21			
2563				AAAAGTTTCGTTTCGGTTTTTCT	mir-2284	20	1	2	33
2564	t1897067	19	1	AAAAGTTTCGTTTCGGTTTT	bta-miR-2284c	20			AAAAAGTTTCGTTTTGGTTTT
2565				mir-2284	18	1	1	32	
2566	t1897069	20	1	AAAAGTTTCGTTTAGGTTTTT	bta-miR-2285ae	22			
2567				AGAAAGTTCATTTAGGTTTTTC	mir-2284	19	1	2	31
2568	t1897073	20	1	AAAAGTTTCGTTCTGGTTTTT	bta-miR-2284y	21			
2569				AAAAGTTTCGTTTCGGGTTTTTC	mir-2284	19	1	1	34
2570	t1897083	22	1	AAAAGTTTCGTTTCGGGTTTTTTC	bta-miR-2284y	21			
2571				AAAAGTTTCGTTTCGGGTTTTTC	mir-2284	21	0	1	39
2572	t1897119	22	1	AAAAGTTTCGTTTCAGGTTTTTTT	bta-miR-2284u	21			
2573				AAAAGTTTCGTTTCGGTTTTTCT	mir-2284	20	1	1	36
2574	t1897129	20	1	AAAAGTTTCGTTTCAGGTTTA	bta-miR-2284j	20			
2575				GAAAAGTTCGTTTCAGGTTTT	mir-2284	19	0	2	32
2576	t1897131	19	1	AAAAGTTTCGTTTCAGGTTTA	bta-miR-2284j	20			GAAAAGTTCGTTTCAGGTTTT
2577				mir-2284	18	1	1	32	
2578	t1897269	21	1	AAAAGTTTCGTTTCGGGTTTTT	bta-miR-2284y	21			
2579				AAAAGTTTCGTTTCGGGTTTTTC	mir-2284	20	0	2	34
2580	t1897273	20	1	AAAAGTTTCGTTTCGGGTTTT	bta-miR-2284y	21			
2581				AAAAGTTTCGTTTCGGGTTTTTC	mir-2284	19	0	3	29
2582	t1897275	21	1	AAAAGTTTCGTTTCAGGTTTTT	bta-miR-2284y	21			
2583				AAAAGTTTCGTTTCGGGTTTTTC	mir-2284	19	1	2	31
2584	t1897279	21	1	AAAAGTTTCATTCGGGTTTTT	bta-miR-2284n	21			
2585				AAAAAGTTTATTCGGGTTTTT	mir-2284	19	2	0	36
2586	t1899141	21	1	AAAACCTGAATGAACTTTTTGG	bta-miR-2285f	22			
2587				AAAACCTGAATGAACTTTTTGG	mir-2284	21	0	1	39
2588	t1899149	23	1	AAAACCTGAACAAGCTTTTTGGCC	bta-miR-2285c	22			
2589				AAACCTGAACAACCTTTTTGGC	mir-2284	20	2	1	35
2590	t1899533	22	1	AAAAAGTTTCGTTTGGGTTTTTT	bta-miR-2284d	22			
2591				AAAAAGTTTCGTTTAGGGTTTTTC	mir-2284	20	2	0	38
2592	t1899547	20	1	AAAAAGTTTCGTTTCGGTTTT	bta-miR-2284c	20			
2593				AAAAAGTTTCGTTTGGTTTT	mir-2284	19	1	0	37
2594	t1899565	21	1	AAAAAGTTTCGTTTCGGTTTT	bta-miR-2284d	22			
2595				AAAAAGTTTCGTTTAGGGTTTTTC	mir-2284	19	2	1	33

2596	t1899571	21	1	AAAAAGTTCG TTCAGGTTT TA	bta-miR-2284j	20
2597				GAAAAGTTCG TTCAGGTTT T	mir-2284	19 1 1 34
2598	t1899575	20	1	AAAAAGTTCG TTCAGGTTT TA	bta-miR-2284j	20
2599				GAAAAGTTCG TTCAGGTTT T	mir-2284	18 2 0 34
2600	t1899623	20	1	AAAAAGTTAG TTTAGGTTT T	bta-miR-2284c	20
2601				AAAAAGTTCG TTTTGGTTT T	mir-2284	18 2 0 34
2602	t1899809	22	1	AAAAACTAGA ATGAACTTTT G	bta-miR-2285j	22
2603				AAAAACCAGA AC GAACTTTT G	mir-2284	20 2 0 38
2604	t1899811	21	1	AAAAACTAGA ATGAACTTTT T	bta-miR-2285j	22
2605				AAAAACCAGA AC GAACTTTT G	mir-2284	19 2 1 33
2606						
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2632 Additional file2. Target genes for the known miRNAs (35 differential expression miRNAs)

2633

2634	miR-name	Ensembl Transcript ID	Pvalue
2635	bta-miR-122	ENSBTAG00000031165	0.008613
2636	bta-miR-122	ENSBTAG00000007930	0.004639
2637	bta-miR-122	ENSBTAG00000032236	0.027042
2638	bta-miR-122	ENSBTAG00000010665	0.017957
2639	bta-miR-122	ENSBTAG00000020514	0.025028
2640	bta-miR-122	ENSBTAG00000036005	0.008425
2641	bta-miR-122	ENSBTAG00000022204	0.003817
2642	bta-miR-122	ENSBTAG00000018694	0.027199
2643	bta-miR-122	ENSBTAG00000000781	0.016218
2644	bta-miR-122	ENSBTAG00000017090	0.00812
2645	bta-miR-122	ENSBTAG00000009504	0.039307
2646	bta-miR-122	ENSBTAG00000040185	0.046071
2647	bta-miR-122	ENSBTAG00000021557	0.0208
2648	bta-miR-122	ENSBTAG00000020956	0.007641
2649	bta-miR-122	ENSBTAG00000019327	0.024533
2650	bta-miR-122	ENSBTAG00000005189	0.043085
2651	bta-miR-122	ENSBTAG00000012801	0.034456
2652	bta-miR-122	ENSBTAG00000045565	0.034229
2653	bta-miR-122	ENSBTAG00000023556	0.031962
2654	bta-miR-122	ENSBTAG00000006907	0.003029
2655	bta-miR-122	ENSBTAG00000014721	0.034003
2656	bta-miR-122	ENSBTAG00000037595	0.000472
2657	bta-miR-122	ENSBTAG00000017471	0.000672
2658	bta-miR-122	ENSBTAG00000003687	0.029204
2659	bta-miR-122	ENSBTAG00000048087	0.044071
2660	bta-miR-122	ENSBTAG00000001933	0.004857
2661	bta-miR-122	ENSBTAG00000013112	0.011203
2662	bta-miR-122	ENSBTAG00000012664	0.020961
2663	bta-miR-122	ENSBTAG00000009216	0.027271
2664	bta-miR-122	ENSBTAG00000047498	0.031791
2665	bta-miR-122	ENSBTAG00000047326	0.006269
2666	bta-miR-122	ENSBTAG00000008933	0.001113
2667	bta-miR-122	ENSBTAG00000047416	0.029549
2668	bta-miR-122	ENSBTAG00000038722	0.034753
2669	bta-miR-122	ENSBTAG00000004024	0.027314
2670	bta-miR-122	ENSBTAG00000047985	0.012295
2671	bta-miR-122	ENSBTAG00000014038	0.005771
2672	bta-miR-122	ENSBTAG00000000432	0.03774
2673	bta-miR-122	ENSBTAG00000034665	0.033193
2674	bta-miR-122	ENSBTAG00000031625	0.018355
2675	bta-miR-122	ENSBTAG00000013099	0.023938

2676	bta-miR-122	ENSBTAG00000015662	0.047329
2677	bta-miR-122	ENSBTAG00000018229	0.00894
2678	bta-miR-122	ENSBTAG00000016694	0.015132
2679	bta-miR-122	ENSBTAG00000009006	0.040378
2680	bta-miR-122	ENSBTAG00000006030	0.041832
2681	bta-miR-122	ENSBTAG00000012250	0.002302
2682	bta-miR-122	ENSBTAG00000020074	0.014622
2683	bta-miR-122	ENSBTAG00000040033	0.039388
2684	bta-miR-122	ENSBTAG00000007431	0.024576
2685	bta-miR-122	ENSBTAG00000015433	0.009875
2686	bta-miR-122	ENSBTAG00000014172	0.027726
2687	bta-miR-122	ENSBTAG00000030676	0.017247
2688	bta-miR-122	ENSBTAG00000036116	0.027042
2689	bta-miR-122	ENSBTAG00000037882	0.008649
2690	bta-miR-122	ENSBTAG00000017258	0.021311
2691	bta-miR-122	ENSBTAG00000038464	0.015672
2692	bta-miR-122	ENSBTAG00000001597	0.017798
2693	bta-miR-122	ENSBTAG00000020952	0.021619
2694	bta-miR-122	ENSBTAG00000016924	0.010646
2695	bta-miR-122	ENSBTAG00000014199	0.024421
2696	bta-miR-122	ENSBTAG00000046280	0.011753
2697	bta-miR-122	ENSBTAG00000003439	0.045874
2698	bta-miR-126-5p	ENSBTAG00000018775	0.01313
2699	bta-miR-126-5p	ENSBTAG00000019795	0.016077
2700	bta-miR-126-5p	ENSBTAG00000019193	0.020497
2701	bta-miR-126-5p	ENSBTAG00000000081	0.006557
2702	bta-miR-126-5p	ENSBTAG00000022571	0.047976
2703	bta-miR-126-5p	ENSBTAG00000008752	0.036376
2704	bta-miR-126-5p	ENSBTAG00000022564	0.047976
2705	bta-miR-126-5p	ENSBTAG00000039722	0.047976
2706	bta-miR-126-5p	ENSBTAG00000004539	0.016789
2707	bta-miR-126-5p	ENSBTAG00000018467	0.048305
2708	bta-miR-126-5p	ENSBTAG00000005973	0.017569
2709	bta-miR-126-5p	ENSBTAG00000001346	0.037725
2710	bta-miR-126-5p	ENSBTAG00000019807	0.026581
2711	bta-miR-126-5p	ENSBTAG00000002561	0.025133
2712	bta-miR-135a	ENSBTAG00000037511	0.032429
2713	bta-miR-135a	ENSBTAG00000008072	0.033335
2714	bta-miR-135a	ENSBTAG00000013950	0.036973
2715	bta-miR-135a	ENSBTAG00000019299	0.029629
2716	bta-miR-135a	ENSBTAG00000003481	0.001812
2717	bta-miR-135a	ENSBTAG00000015090	0.002434
2718	bta-miR-135a	ENSBTAG00000004864	0.025275
2719	bta-miR-135a	ENSBTAG00000018063	0.047783

2720	bta-miR-135a	ENSBTAG00000038687	0.031481
2721	bta-miR-135a	ENSBTAG00000000593	0.01647
2722	bta-miR-135a	ENSBTAG00000000746	0.005872
2723	bta-miR-135a	ENSBTAG00000027557	0.038977
2724	bta-miR-135a	ENSBTAG00000008032	0.021248
2725	bta-miR-135a	ENSBTAG00000009072	0.01242
2726	bta-miR-135a	ENSBTAG00000016282	0.039468
2727	bta-miR-135a	ENSBTAG00000002266	0.032329
2728	bta-miR-135a	ENSBTAG00000021780	0.006406
2729	bta-miR-135a	ENSBTAG00000007722	0.004699
2730	bta-miR-135a	ENSBTAG00000001614	0.012362
2731	bta-miR-135a	ENSBTAG00000016427	0.044647
2732	bta-miR-135a	ENSBTAG00000009852	0.038158
2733	bta-miR-135a	ENSBTAG00000013880	0.024184
2734	bta-miR-135a	ENSBTAG00000004150	0.005604
2735	bta-miR-135a	ENSBTAG00000004190	0.011926
2736	bta-miR-135a	ENSBTAG00000005378	0.036089
2737	bta-miR-135a	ENSBTAG00000016042	0.021365
2738	bta-miR-135a	ENSBTAG00000026248	0.011556
2739	bta-miR-135a	ENSBTAG00000000656	0.044203
2740	bta-miR-135a	ENSBTAG00000021819	0.036951
2741	bta-miR-135a	ENSBTAG00000015663	0.033521
2742	bta-miR-135a	ENSBTAG00000037799	0.00392
2743	bta-miR-135a	ENSBTAG00000018046	0.030904
2744	bta-miR-135a	ENSBTAG00000014302	0.046896
2745	bta-miR-135a	ENSBTAG00000012157	0.043759
2746	bta-miR-135a	ENSBTAG00000010719	0.037629
2747	bta-miR-135a	ENSBTAG00000002982	0.005924
2748	bta-miR-135a	ENSBTAG00000004873	0.029983
2749	bta-miR-135a	ENSBTAG00000006511	0.041712
2750	bta-miR-135a	ENSBTAG00000000616	0.018555
2751	bta-miR-136	ENSBTAG00000036282	0.016629
2752	bta-miR-136	ENSBTAG00000047048	0.017962
2753	bta-miR-136	ENSBTAG00000002021	0.026616
2754	bta-miR-136	ENSBTAG00000046585	0.002569
2755	bta-miR-136	ENSBTAG00000010524	0.048691
2756	bta-miR-136	ENSBTAG00000006905	0.013939
2757	bta-miR-136	ENSBTAG00000038635	0.043709
2758	bta-miR-136	ENSBTAG00000000522	0.049656
2759	bta-miR-136	ENSBTAG00000009308	0.017525
2760	bta-miR-136	ENSBTAG00000032274	0.005085
2761	bta-miR-136	ENSBTAG00000012723	0.009531
2762	bta-miR-136	ENSBTAG00000017533	0.044708
2763	bta-miR-136	ENSBTAG00000019685	0.04229

2764	bta-miR-136	ENSBTAG00000000128	0.014647
2765	bta-miR-136	ENSBTAG00000017361	0.026587
2766	bta-miR-136	ENSBTAG00000000252	0.045529
2767	bta-miR-136	ENSBTAG00000012774	0.01143
2768	bta-miR-136	ENSBTAG00000016446	0.003486
2769	bta-miR-136	ENSBTAG00000011091	0.001149
2770	bta-miR-136	ENSBTAG00000008731	0.041235
2771	bta-miR-136	ENSBTAG00000015824	0.036586
2772	bta-miR-136	ENSBTAG00000046753	0.03276
2773	bta-miR-136	ENSBTAG00000020212	0.023177
2774	bta-miR-136	ENSBTAG00000013238	0.006199
2775	bta-miR-136	ENSBTAG00000002778	0.043719
2776	bta-miR-136	ENSBTAG00000020477	0.023546
2777	bta-miR-136	ENSBTAG00000046358	0.004204
2778	bta-miR-136	ENSBTAG00000013509	0.009787
2779	bta-miR-136	ENSBTAG00000003500	0.038458
2780	bta-miR-136	ENSBTAG00000040147	0.021608
2781	bta-miR-136	ENSBTAG00000006387	0.043847
2782	bta-miR-136	ENSBTAG00000004048	0.001956
2783	bta-miR-136	ENSBTAG00000012500	0.033184
2784	bta-miR-136	ENSBTAG00000010721	0.032642
2785	bta-miR-136	ENSBTAG00000014376	0.015734
2786	bta-miR-136	ENSBTAG00000024787	0.013645
2787	bta-miR-136	ENSBTAG00000008301	0.03198
2788	bta-miR-136	ENSBTAG00000003934	0.036259
2789	bta-miR-136	ENSBTAG00000001314	0.015477
2790	bta-miR-136	ENSBTAG00000020303	0.017095
2791	bta-miR-136	ENSBTAG00000014758	0.006754
2792	bta-miR-136	ENSBTAG00000011333	0.038915
2793	bta-miR-136	ENSBTAG00000007916	0.002506
2794	bta-miR-136	ENSBTAG00000038045	0.017014
2795	bta-miR-136	ENSBTAG00000020457	0.015397
2796	bta-miR-136	ENSBTAG00000009410	0.045218
2797	bta-miR-136	ENSBTAG00000004230	0.005353
2798	bta-miR-136	ENSBTAG00000002952	0.026358
2799	bta-miR-136	ENSBTAG00000019675	0.010327
2800	bta-miR-136	ENSBTAG00000030556	0.026956
2801	bta-miR-136	ENSBTAG00000019846	0.033183
2802	bta-miR-136	ENSBTAG00000012246	0.048511
2803	bta-miR-136	ENSBTAG00000017162	0.006516
2804	bta-miR-136	ENSBTAG00000002728	0.012802
2805	bta-miR-136	ENSBTAG00000008815	0.036129
2806	bta-miR-136	ENSBTAG00000011784	0.041028
2807	bta-miR-136	ENSBTAG00000000598	0.015589

2808	bta-miR-136	ENSBTAG00000002775	0.039911
2809	bta-miR-136	ENSBTAG00000020522	0.007234
2810	bta-miR-136	ENSBTAG00000047707	0.035075
2811	bta-miR-136	ENSBTAG00000009099	0.021873
2812	bta-miR-136	ENSBTAG00000026032	0.028793
2813	bta-miR-136	ENSBTAG00000021283	0.029938
2814	bta-miR-136	ENSBTAG00000014429	0.019313
2815	bta-miR-136	ENSBTAG00000004207	0.021344
2816	bta-miR-136	ENSBTAG00000012100	0.018896
2817	bta-miR-136	ENSBTAG00000016580	0.039349
2818	bta-miR-136	ENSBTAG00000021301	0.027085
2819	bta-miR-136	ENSBTAG00000020419	0.017483
2820	bta-miR-136	ENSBTAG00000006233	0.04755
2821	bta-miR-136	ENSBTAG00000013919	0.006851
2822	bta-miR-136	ENSBTAG00000007196	0.036712
2823	bta-miR-136	ENSBTAG00000021979	0.026849
2824	bta-miR-136	ENSBTAG00000012624	0.009288
2825	bta-miR-136	ENSBTAG00000012124	0.033398
2826	bta-miR-136	ENSBTAG00000005665	0.015717
2827	bta-miR-136	ENSBTAG00000010286	0.046444
2828	bta-miR-136	ENSBTAG00000032340	0.007832
2829	bta-miR-136	ENSBTAG00000001446	0.028587
2830	bta-miR-136	ENSBTAG00000006490	0.001162
2831	bta-miR-136	ENSBTAG00000012881	0.013754
2832	bta-miR-136	ENSBTAG00000001601	0.027302
2833	bta-miR-136	ENSBTAG00000000517	0.019264
2834	bta-miR-136	ENSBTAG00000035998	0.00528
2835	bta-miR-136	ENSBTAG00000010367	0.008138
2836	bta-miR-136	ENSBTAG00000040409	0.010748
2837	bta-miR-136	ENSBTAG00000032007	0.033492
2838	bta-miR-136	ENSBTAG00000021307	0.010841
2839	bta-miR-136	ENSBTAG00000014609	0.047098
2840	bta-miR-136	ENSBTAG00000019427	0.039802
2841	bta-miR-136	ENSBTAG00000005363	0.048218
2842	bta-miR-136	ENSBTAG00000034442	0.022293
2843	bta-miR-136	ENSBTAG00000015779	0.031355
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2845	bta-miR-136	ENSBTAG00000039121	0.032676
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2847	bta-miR-136	ENSBTAG00000021595	0.031605
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2849	bta-miR-136	ENSBTAG00000008143	0.029033
2850	bta-miR-136	ENSBTAG00000001394	0.000374
2851	bta-miR-136	ENSBTAG00000024420	0.043776

2852	bta-miR-136	ENSBTAG00000045590	0.034861
2853	bta-miR-136	ENSBTAG00000015715	0.032016
2854	bta-miR-136	ENSBTAG00000011788	0.043644
2855	bta-miR-1388-3p	ENSBTAG00000001415	0.024533
2856	bta-miR-1388-3p	ENSBTAG00000019079	0.001659
2857	bta-miR-1388-3p	ENSBTAG00000014169	0.043754
2858	bta-miR-1388-3p	ENSBTAG00000008048	0.047985
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2860	bta-miR-1388-3p	ENSBTAG00000020277	0.001206
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2862	bta-miR-1388-3p	ENSBTAG00000007569	0.030874
2863	bta-miR-1388-3p	ENSBTAG00000007477	0.047985
2864	bta-miR-1388-3p	ENSBTAG00000004603	0.015207
2865	bta-miR-1388-3p	ENSBTAG00000020357	0.01992
2866	bta-miR-1388-3p	ENSBTAG00000004110	0.01452
2867	bta-miR-1388-3p	ENSBTAG00000016721	0.037847
2868	bta-miR-1388-3p	ENSBTAG00000015965	0.049223
2869	bta-miR-1388-3p	ENSBTAG00000003165	0.010858
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2872	bta-miR-1388-3p	ENSBTAG00000047812	0.037081
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2878	bta-miR-1388-3p	ENSBTAG00000012995	0.010285
2879	bta-miR-1388-3p	ENSBTAG00000014520	0.047311
2880	bta-miR-1388-3p	ENSBTAG00000034940	0.040488
2881	bta-miR-1388-3p	ENSBTAG00000016471	0.022408
2882	bta-miR-1388-3p	ENSBTAG00000025718	0.005955
2883	bta-miR-1388-3p	ENSBTAG00000004797	0.029699
2884	bta-miR-1388-3p	ENSBTAG00000001077	0.029754
2885	bta-miR-1388-3p	ENSBTAG00000024318	0.005389
2886	bta-miR-1388-3p	ENSBTAG00000010659	0.009231
2887	bta-miR-1388-3p	ENSBTAG00000004039	0.011307
2888	bta-miR-1388-3p	ENSBTAG00000039635	0.040417
2889	bta-miR-1388-3p	ENSBTAG00000047166	0.019562
2890	bta-miR-1388-3p	ENSBTAG00000001899	0.049353
2891	bta-miR-1388-3p	ENSBTAG00000004593	0.047125
2892	bta-miR-1388-3p	ENSBTAG00000004787	0.025955
2893	bta-miR-1388-3p	ENSBTAG00000009632	0.016404
2894	bta-miR-1388-3p	ENSBTAG00000048265	0.02336
2895	bta-miR-1388-3p	ENSBTAG00000018761	0.001521

2896	bta-miR-1388-3p	ENSBTAG00000004461	0.024282
2897	bta-miR-1388-3p	ENSBTAG00000012962	0.040702
2898	bta-miR-1388-3p	ENSBTAG000000037815	0.016417
2899	bta-miR-1388-3p	ENSBTAG00000009772	0.008705
2900	bta-miR-1388-3p	ENSBTAG00000020172	0.02282
2901	bta-miR-1388-3p	ENSBTAG00000009436	0.045532
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2903	bta-miR-1388-3p	ENSBTAG00000047362	0.026076
2904	bta-miR-1388-3p	ENSBTAG00000004079	0.008785
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2906	bta-miR-1388-3p	ENSBTAG00000005481	0.023135
2907	bta-miR-1388-3p	ENSBTAG00000024169	0.023069
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2912	bta-miR-1388-3p	ENSBTAG00000035584	0.048131
2913	bta-miR-1388-3p	ENSBTAG00000014328	0.014086
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2919	bta-miR-1388-3p	ENSBTAG00000008528	0.039293
2920	bta-miR-1388-3p	ENSBTAG00000011164	0.000914
2921	bta-miR-1388-3p	ENSBTAG00000047767	0.002873
2922	bta-miR-1388-3p	ENSBTAG00000037951	0.008823
2923	bta-miR-1388-3p	ENSBTAG00000003957	0.039889
2924	bta-miR-1388-3p	ENSBTAG00000048317	0.02316
2925	bta-miR-1388-3p	ENSBTAG00000018204	0.033535
2926	bta-miR-1388-3p	ENSBTAG00000039041	0.005389
2927	bta-miR-1388-3p	ENSBTAG00000002779	0.006372
2928	bta-miR-1388-3p	ENSBTAG00000016026	0.019678
2929	bta-miR-1388-3p	ENSBTAG00000013048	0.006998
2930	bta-miR-1388-3p	ENSBTAG00000002190	0.033667
2931	bta-miR-1388-3p	ENSBTAG00000034598	0.035286
2932	bta-miR-1388-3p	ENSBTAG00000008492	0.010738
2933	bta-miR-1388-3p	ENSBTAG00000007110	0.045555
2934	bta-miR-1388-3p	ENSBTAG00000016830	0.026501
2935	bta-miR-1388-3p	ENSBTAG00000002972	0.016905
2936	bta-miR-1388-3p	ENSBTAG00000039256	0.005389
2937	bta-miR-1388-3p	ENSBTAG00000011991	0.002553
2938	bta-miR-1388-3p	ENSBTAG00000011646	0.003409
2939	bta-miR-1388-3p	ENSBTAG00000007423	0.046789

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2942	bta-miR-1388-3p	ENSBTAG00000017223	0.047785
2943	bta-miR-1388-3p	ENSBTAG00000001747	0.036467
2944	bta-miR-1388-3p	ENSBTAG00000027795	0.013049
2945	bta-miR-1388-3p	ENSBTAG00000012016	0.047942
2946	bta-miR-1388-3p	ENSBTAG00000047977	0.043823
2947	bta-miR-1388-3p	ENSBTAG00000006352	0.031069
2948	bta-miR-1388-3p	ENSBTAG00000000721	0.043036
2949	bta-miR-1388-3p	ENSBTAG00000048218	0.027207
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2951	bta-miR-1388-3p	ENSBTAG00000016374	0.020346
2952	bta-miR-1388-3p	ENSBTAG00000024983	0.03023
2953	bta-miR-1388-3p	ENSBTAG00000020996	0.019926
2954	bta-miR-1388-3p	ENSBTAG00000032301	0.018268
2955	bta-miR-1388-3p	ENSBTAG00000009486	0.039896
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2960	bta-miR-1388-3p	ENSBTAG00000046071	0.047985
2961	bta-miR-1388-3p	ENSBTAG00000004155	0.044391
2962	bta-miR-1388-3p	ENSBTAG00000005892	0.022814
2963	bta-miR-1388-3p	ENSBTAG00000010116	0.028
2964	bta-miR-1388-3p	ENSBTAG00000009996	0.014588
2965	bta-miR-1388-3p	ENSBTAG00000000218	0.028591
2966	bta-miR-1388-3p	ENSBTAG00000009685	0.02336
2967	bta-miR-1388-3p	ENSBTAG00000001341	0.044115
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2969	bta-miR-1388-3p	ENSBTAG00000003546	0.046789
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2974	bta-miR-1388-3p	ENSBTAG00000011573	0.037467
2975	bta-miR-1388-3p	ENSBTAG00000025148	0.035374
2976	bta-miR-145	ENSBTAG00000002346	0.011702
2977	bta-miR-145	ENSBTAG00000004428	0.025572
2978	bta-miR-145	ENSBTAG00000026836	0.028079
2979	bta-miR-145	ENSBTAG00000047165	0.012093
2980	bta-miR-145	ENSBTAG00000007477	0.011063
2981	bta-miR-145	ENSBTAG00000000620	0.011029
2982	bta-miR-145	ENSBTAG00000012146	0.027248
2983	bta-miR-145	ENSBTAG00000004585	0.048304

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2992	bta-miR-145	ENSBTAG00000003608	0.015497
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2996	bta-miR-145	ENSBTAG00000047600	0.037213
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3016	bta-miR-145	ENSBTAG00000016547	0.030959
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3269	bta-miR-16a	ENSBTAG00000012740	0.012138
3270	bta-miR-16a	ENSBTAG00000019630	0.023911
3271	bta-miR-16a	ENSBTAG00000017280	0.002179
3272	bta-miR-16a	ENSBTAG00000006017	0.02597
3273	bta-miR-16a	ENSBTAG00000017024	0.046973
3274	bta-miR-16a	ENSBTAG00000007736	0.047071
3275	bta-miR-16a	ENSBTAG00000014861	0.019944
3276	bta-miR-16a	ENSBTAG00000011588	0.044703
3277	bta-miR-16a	ENSBTAG00000003671	0.028694
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3281	bta-miR-16a	ENSBTAG00000007133	0.015107
3282	bta-miR-16a	ENSBTAG00000007746	0.047413
3283	bta-miR-16a	ENSBTAG00000002634	0.032253
3284	bta-miR-16a	ENSBTAG00000007331	0.00353
3285	bta-miR-16a	ENSBTAG00000018015	0.032374
3286	bta-miR-16a	ENSBTAG00000017545	0.024746
3287	bta-miR-16a	ENSBTAG00000008504	0.020152
3288	bta-miR-16a	ENSBTAG00000004423	0.02205
3289	bta-miR-16a	ENSBTAG00000009486	0.003703
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3291	bta-miR-16a	ENSBTAG00000002296	0.005025

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3298	bta-miR-16a	ENSBTAG00000010063	0.023611
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3305	bta-miR-16a	ENSBTAG00000020987	0.005768
3306	bta-miR-16a	ENSBTAG00000012126	0.016041
3307	bta-miR-16a	ENSBTAG00000015276	0.04105
3308	bta-miR-206	ENSBTAG00000021182	0.03516
3309	bta-miR-206	ENSBTAG00000005999	0.043769
3310	bta-miR-206	ENSBTAG00000011946	0.031201
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3312	bta-miR-206	ENSBTAG00000009291	0.012581
3313	bta-miR-206	ENSBTAG00000046149	0.03181
3314	bta-miR-206	ENSBTAG00000019215	0.045578
3315	bta-miR-206	ENSBTAG00000019072	0.018046
3316	bta-miR-206	ENSBTAG00000006359	0.027666
3317	bta-miR-206	ENSBTAG00000020283	0.042371
3318	bta-miR-206	ENSBTAG00000000687	0.024126
3319	bta-miR-206	ENSBTAG00000018423	0.036215
3320	bta-miR-206	ENSBTAG00000037649	0.003343
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3322	bta-miR-206	ENSBTAG00000047077	0.048021
3323	bta-miR-206	ENSBTAG00000004283	0.037686
3324	bta-miR-206	ENSBTAG00000017840	0.034613
3325	bta-miR-206	ENSBTAG00000048022	0.0439
3326	bta-miR-206	ENSBTAG00000014847	0.015761
3327	bta-miR-206	ENSBTAG00000007627	0.024607
3328	bta-miR-206	ENSBTAG00000047375	0.049531
3329	bta-miR-206	ENSBTAG00000047676	0.036429
3330	bta-miR-206	ENSBTAG00000003323	0.045479
3331	bta-miR-206	ENSBTAG00000006002	0.045611
3332	bta-miR-206	ENSBTAG00000037810	0.024607
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3334	bta-miR-206	ENSBTAG00000014596	0.033013
3335	bta-miR-206	ENSBTAG00000018841	0.018126

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3337	bta-miR-206	ENSBTAG00000040609	0.008877
3338	bta-miR-206	ENSBTAG00000008361	0.023988
3339	bta-miR-206	ENSBTAG00000047416	0.019987
3340	bta-miR-206	ENSBTAG00000011683	0.014214
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3362	bta-miR-206	ENSBTAG00000013757	0.014096
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3366	bta-miR-206	ENSBTAG00000020260	0.01479
3367	bta-miR-206	ENSBTAG00000014814	0.019661
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3383	bta-miR-206	ENSBTAG00000044158	0.00741
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3387	bta-miR-223	ENSBTAG00000045580	0.001203
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3394	bta-miR-223	ENSBTAG00000012460	0.012822
3395	bta-miR-223	ENSBTAG00000013671	0.035365
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3604	bta-miR-23a	ENSBTAG00000033735	0.023844
3605	bta-miR-23a	ENSBTAG00000021428	0.041676
3606	bta-miR-23b-3p	ENSBTAG00000009155	0.018532
3607	bta-miR-23b-3p	ENSBTAG00000019750	0.004441
3608	bta-miR-23b-3p	ENSBTAG00000046582	0.044388
3609	bta-miR-23b-3p	ENSBTAG00000018320	0.033368
3610	bta-miR-23b-3p	ENSBTAG00000030227	0.011985
3611	bta-miR-23b-3p	ENSBTAG00000009110	0.027997
3612	bta-miR-23b-3p	ENSBTAG00000040473	0.034205
3613	bta-miR-23b-3p	ENSBTAG00000018711	0.029604
3614	bta-miR-23b-3p	ENSBTAG00000019701	0.001449
3615	bta-miR-23b-3p	ENSBTAG00000033446	0.012173
3616	bta-miR-23b-3p	ENSBTAG00000020919	0.028269
3617	bta-miR-23b-3p	ENSBTAG00000039597	0.037062
3618	bta-miR-23b-3p	ENSBTAG00000020859	0.026758
3619	bta-miR-23b-3p	ENSBTAG00000005251	0.000588
3620	bta-miR-23b-3p	ENSBTAG00000004059	0.012155
3621	bta-miR-23b-3p	ENSBTAG00000010171	0.040333
3622	bta-miR-23b-3p	ENSBTAG00000016573	0.027211
3623	bta-miR-23b-3p	ENSBTAG00000003168	0.032221
3624	bta-miR-23b-3p	ENSBTAG00000003580	0.018855
3625	bta-miR-23b-3p	ENSBTAG00000046086	0.015338
3626	bta-miR-23b-3p	ENSBTAG00000032872	0.027997
3627	bta-miR-23b-3p	ENSBTAG00000018638	0.017848
3628	bta-miR-23b-3p	ENSBTAG00000030474	0.006774
3629	bta-miR-23b-3p	ENSBTAG00000003239	0.020981
3630	bta-miR-23b-3p	ENSBTAG00000012077	0.038302
3631	bta-miR-23b-3p	ENSBTAG00000048301	0.032948
3632	bta-miR-23b-3p	ENSBTAG00000009105	0.025093
3633	bta-miR-23b-3p	ENSBTAG00000007825	0.024781
3634	bta-miR-23b-3p	ENSBTAG00000002833	0.044377
3635	bta-miR-23b-3p	ENSBTAG00000012834	0.007252
3636	bta-miR-23b-3p	ENSBTAG00000045610	0.043191
3637	bta-miR-23b-3p	ENSBTAG00000011651	0.002086
3638	bta-miR-23b-3p	ENSBTAG00000016896	0.037676
3639	bta-miR-23b-3p	ENSBTAG00000007920	0.044096
3640	bta-miR-23b-3p	ENSBTAG00000034435	0.037437
3641	bta-miR-23b-3p	ENSBTAG00000023920	0.008015
3642	bta-miR-23b-3p	ENSBTAG00000019652	0.044114
3643	bta-miR-23b-3p	ENSBTAG00000014643	0.011985

3644	bta-miR-23b-3p	ENSBTAG00000003922	0.003397
3645	bta-miR-23b-3p	ENSBTAG00000018812	0.033723
3646	bta-miR-23b-3p	ENSBTAG00000014011	0.024053
3647	bta-miR-23b-3p	ENSBTAG00000020994	0.021175
3648	bta-miR-23b-3p	ENSBTAG00000009165	0.038691
3649	bta-miR-23b-3p	ENSBTAG00000046028	0.034069
3650	bta-miR-23b-3p	ENSBTAG00000003884	0.040057
3651	bta-miR-23b-3p	ENSBTAG00000008324	0.038778
3652	bta-miR-23b-3p	ENSBTAG00000015352	0.041274
3653	bta-miR-23b-3p	ENSBTAG00000020933	0.001045
3654	bta-miR-23b-3p	ENSBTAG00000003557	0.034129
3655	bta-miR-23b-3p	ENSBTAG00000048300	0.032948
3656	bta-miR-23b-3p	ENSBTAG00000040157	0.044388
3657	bta-miR-23b-3p	ENSBTAG00000015868	0.033612
3658	bta-miR-23b-3p	ENSBTAG00000007474	0.013164
3659	bta-miR-23b-3p	ENSBTAG00000016279	0.021564
3660	bta-miR-23b-3p	ENSBTAG00000026032	0.022102
3661	bta-miR-23b-3p	ENSBTAG00000013167	0.035798
3662	bta-miR-23b-3p	ENSBTAG00000009061	0.033715
3663	bta-miR-23b-3p	ENSBTAG00000006690	0.041592
3664	bta-miR-23b-3p	ENSBTAG00000032206	0.010607
3665	bta-miR-23b-3p	ENSBTAG00000014273	0.022386
3666	bta-miR-23b-3p	ENSBTAG00000016191	0.039666
3667	bta-miR-23b-3p	ENSBTAG00000037527	0.042119
3668	bta-miR-23b-3p	ENSBTAG00000024715	0.048102
3669	bta-miR-23b-3p	ENSBTAG00000014855	0.023131
3670	bta-miR-23b-3p	ENSBTAG00000008600	0.033123
3671	bta-miR-23b-3p	ENSBTAG00000021819	0.043476
3672	bta-miR-23b-3p	ENSBTAG00000031497	0.047118
3673	bta-miR-23b-3p	ENSBTAG00000046926	0.014566
3674	bta-miR-23b-3p	ENSBTAG00000006040	0.001111
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3676	bta-miR-23b-3p	ENSBTAG00000046190	0.049547
3677	bta-miR-23b-3p	ENSBTAG00000024791	0.045634
3678	bta-miR-23b-3p	ENSBTAG00000040351	0.04791
3679	bta-miR-23b-3p	ENSBTAG00000009806	0.029758
3680	bta-miR-23b-3p	ENSBTAG00000006446	0.030199
3681	bta-miR-23b-3p	ENSBTAG00000012857	0.010696
3682	bta-miR-23b-3p	ENSBTAG00000046937	0.021956
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3684	bta-miR-23b-3p	ENSBTAG00000009675	0.021956
3685	bta-miR-23b-3p	ENSBTAG00000010462	0.043408
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3687	bta-miR-23b-3p	ENSBTAG00000039728	0.033368

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3694	bta-miR-23b-3p	ENSBTAG00000022381	0.024837
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3702	bta-miR-23b-3p	ENSBTAG00000012565	0.042221
3703	bta-miR-23b-3p	ENSBTAG00000012981	0.011985
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3716	bta-miR-24	ENSBTAG000000038947	0.006481
3717	bta-miR-24	ENSBTAG000000011534	0.031271
3718	bta-miR-24	ENSBTAG000000020991	0.007325
3719	bta-miR-24	ENSBTAG000000031209	0.039939
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3723	bta-miR-24	ENSBTAG000000012020	0.03753
3724	bta-miR-24	ENSBTAG000000023611	0.010366
3725	bta-miR-24	ENSBTAG000000009441	0.018416
3726	bta-miR-24	ENSBTAG000000011076	0.015329
3727	bta-miR-24	ENSBTAG000000013628	0.036145
3728	bta-miR-24	ENSBTAG000000007208	0.02383
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3730	bta-miR-24	ENSBTAG000000007096	0.021454
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3769	bta-miR-2478	ENSBTAG00000011876	0.01879
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3787	bta-miR-2478	ENSBTAG00000018710	0.049081
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3825	bta-miR-2484	ENSBTAG000000015151	0.006655
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3855	bta-miR-26a	ENSBTAG000000019885	0.001681
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3857	bta-miR-26a	ENSBTAG000000005728	0.003397
3858	bta-miR-26a	ENSBTAG000000039878	0.010554
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3862	bta-miR-26a	ENSBTAG000000004640	0.005252
3863	bta-miR-26a	ENSBTAG000000034302	0.033049

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3868	bta-miR-26a	ENSBTAG00000011887	0.047145
3869	bta-miR-26a	ENSBTAG00000047547	0.039605
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3897	bta-miR-26a	ENSBTAG00000020281	0.004009
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3899	bta-miR-26a	ENSBTAG00000012946	0.035124
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3924	bta-miR-30e-5p	ENSBTAG00000039714	0.0373
3925	bta-miR-30e-5p	ENSBTAG00000019332	0.015869
3926	bta-miR-30e-5p	ENSBTAG00000007268	0.035207
3927	bta-miR-30e-5p	ENSBTAG00000002590	0.038508
3928	bta-miR-30e-5p	ENSBTAG00000027782	0.006626
3929	bta-miR-30e-5p	ENSBTAG00000002096	0.002997
3930	bta-miR-30e-5p	ENSBTAG00000001961	0.040919
3931	bta-miR-30e-5p	ENSBTAG00000015155	0.005619
3932	bta-miR-30e-5p	ENSBTAG00000012239	0.021366
3933	bta-miR-30e-5p	ENSBTAG00000010283	0.008166
3934	bta-miR-30e-5p	ENSBTAG00000016593	0.020206
3935	bta-miR-30e-5p	ENSBTAG00000017251	0.024252
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3937	bta-miR-30e-5p	ENSBTAG00000009343	0.041995
3938	bta-miR-30e-5p	ENSBTAG00000018053	0.040593
3939	bta-miR-30e-5p	ENSBTAG00000006107	0.006967
3940	bta-miR-30e-5p	ENSBTAG00000018729	0.043185
3941	bta-miR-30e-5p	ENSBTAG00000001772	0.049627
3942	bta-miR-30e-5p	ENSBTAG00000038844	0.049562
3943	bta-miR-30e-5p	ENSBTAG00000021876	0.034277
3944	bta-miR-30e-5p	ENSBTAG00000019811	0.006467
3945	bta-miR-30e-5p	ENSBTAG00000014302	0.042867
3946	bta-miR-30e-5p	ENSBTAG00000048059	0.003881
3947	bta-miR-30e-5p	ENSBTAG00000003963	0.029588
3948	bta-miR-30e-5p	ENSBTAG00000018847	0.029966
3949	bta-miR-30e-5p	ENSBTAG00000001507	0.034559
3950	bta-miR-30e-5p	ENSBTAG00000003062	0.040726
3951	bta-miR-30e-5p	ENSBTAG00000007399	0.020311

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3953	bta-miR-30e-5p	ENSBTAG00000016270	0.002737
3954	bta-miR-30e-5p	ENSBTAG00000016826	0.038339
3955	bta-miR-30e-5p	ENSBTAG00000006520	0.001973
3956	bta-miR-30e-5p	ENSBTAG00000016596	0.039223
3957	bta-miR-30e-5p	ENSBTAG00000005710	0.009985
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3969	bta-miR-326	ENSBTAG00000017460	0.028834
3970	bta-miR-326	ENSBTAG00000024153	0.020623
3971	bta-miR-326	ENSBTAG00000044023	0.043088
3972	bta-miR-326	ENSBTAG00000004279	0.035815
3973	bta-miR-326	ENSBTAG00000006861	0.032366
3974	bta-miR-326	ENSBTAG00000017958	0.004559
3975	bta-miR-326	ENSBTAG00000004046	0.016695
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3979	bta-miR-326	ENSBTAG00000040378	0.024059
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3981	bta-miR-326	ENSBTAG00000021443	0.006187
3982	bta-miR-326	ENSBTAG00000014299	0.035815
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3986	bta-miR-326	ENSBTAG00000016876	0.029924
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3993	bta-miR-326	ENSBTAG00000008306	0.000888
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4257	bta-miR-3431	ENSBTAG00000012751	0.024645
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4259	bta-miR-3431	ENSBTAG00000013166	0.026297

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4261	bta-miR-3431	ENSBTAG00000020729	0.014053
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4263	bta-miR-3431	ENSBTAG00000030757	0.010805
4264	bta-miR-3431	ENSBTAG00000012121	0.007714
4265	bta-miR-3431	ENSBTAG00000017411	0.019744
4266	bta-miR-3431	ENSBTAG00000002071	0.042323
4267	bta-miR-3431	ENSBTAG00000000586	0.022435
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4269	bta-miR-3431	ENSBTAG00000012040	0.019529
4270	bta-miR-3431	ENSBTAG00000020516	0.015191
4271	bta-miR-3431	ENSBTAG00000007022	0.040486
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4275	bta-miR-3431	ENSBTAG00000038325	0.024753
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4279	bta-miR-3431	ENSBTAG00000009743	0.029047
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4283	bta-miR-3431	ENSBTAG00000003822	0.049138
4284	bta-miR-3431	ENSBTAG00000017071	0.010968
4285	bta-miR-3431	ENSBTAG00000018077	0.043265
4286	bta-miR-3431	ENSBTAG00000016751	0.012376
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4288	bta-miR-3431	ENSBTAG00000019273	0.01842
4289	bta-miR-3431	ENSBTAG00000012552	0.038095
4290	bta-miR-3431	ENSBTAG00000045572	0.047861
4291	bta-miR-3431	ENSBTAG00000014249	0.01788
4292	bta-miR-3431	ENSBTAG00000017746	0.000713
4293	bta-miR-3431	ENSBTAG00000017310	0.016065
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4295	bta-miR-3431	ENSBTAG00000046083	0.031957
4296	bta-miR-3431	ENSBTAG00000012222	0.044399
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4312	bta-miR-3431	ENSBTAG00000031481	0.007137
4313	bta-miR-3431	ENSBTAG00000012943	0.033904
4314	bta-miR-3431	ENSBTAG00000008854	0.009856
4315	bta-miR-3431	ENSBTAG00000005892	0.000974
4316	bta-miR-3431	ENSBTAG00000017836	0.039544
4317	bta-miR-3431	ENSBTAG00000005671	0.025823
4318	bta-miR-3431	ENSBTAG00000014968	0.036027
4319	bta-miR-3431	ENSBTAG00000000102	0.006645
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4325	bta-miR-3431	ENSBTAG00000013526	0.036015
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4589	bta-miR-383	ENSBTAG000000033464	0.00823
4590	bta-miR-383	ENSBTAG000000048303	0.03723
4591	bta-miR-383	ENSBTAG000000002024	0.015055
4592	bta-miR-383	ENSBTAG000000017767	0.044222
4593	bta-miR-383	ENSBTAG000000004538	0.045805
4594	bta-miR-383	ENSBTAG000000006143	0.035702
4595	bta-miR-383	ENSBTAG000000039275	0.001426
4596	bta-miR-383	ENSBTAG000000019852	0.021645
4597	bta-miR-383	ENSBTAG000000007588	0.006206
4598	bta-miR-383	ENSBTAG000000018708	0.045715
4599	bta-miR-383	ENSBTAG000000038057	0.046603
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4601	bta-miR-4286	ENSBTAG000000006650	0.009102
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4603	bta-miR-4286	ENSBTAG000000024839	0.010693
4604	bta-miR-4286	ENSBTAG000000002853	0.012941
4605	bta-miR-4286	ENSBTAG000000047165	0.016161
4606	bta-miR-4286	ENSBTAG000000046971	0.022331
4607	bta-miR-4286	ENSBTAG000000025130	0.012941
4608	bta-miR-4286	ENSBTAG000000011019	0.043904
4609	bta-miR-4286	ENSBTAG000000046923	0.032753
4610	bta-miR-4286	ENSBTAG000000020998	0.032753
4611	bta-miR-4286	ENSBTAG000000018332	0.025396

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4613	bta-miR-4286	ENSBTAG00000007184	0.016161
4614	bta-miR-4286	ENSBTAG00000045560	0.032753
4615	bta-miR-4286	ENSBTAG00000021076	0.015154
4616	bta-miR-4286	ENSBTAG00000003553	0.012941
4617	bta-miR-4286	ENSBTAG00000045582	0.040133
4618	bta-miR-4286	ENSBTAG00000016381	0.023409
4619	bta-miR-4286	ENSBTAG00000001262	0.016161
4620	bta-miR-4286	ENSBTAG00000025210	0.016161
4621	bta-miR-4286	ENSBTAG00000040559	0.0455
4622	bta-miR-4286	ENSBTAG00000027275	0.032753
4623	bta-miR-4286	ENSBTAG00000007074	0.031425
4624	bta-miR-4286	ENSBTAG00000026192	0.049859
4625	bta-miR-4286	ENSBTAG00000018658	0.047984
4626	bta-miR-4286	ENSBTAG00000018749	0.048014
4627	bta-miR-4286	ENSBTAG00000013236	0.004402
4628	bta-miR-4286	ENSBTAG00000023384	0.043904
4629	bta-miR-4286	ENSBTAG00000023283	0.015731
4630	bta-miR-4286	ENSBTAG00000007546	0.009885
4631	bta-miR-4286	ENSBTAG00000047190	0.023409
4632	bta-miR-4286	ENSBTAG00000006807	0.043904
4633	bta-miR-4286	ENSBTAG00000021505	0.010996
4634	bta-miR-4286	ENSBTAG00000015405	0.049859
4635	bta-miR-4286	ENSBTAG00000012620	0.035995
4636	bta-miR-4286	ENSBTAG00000009299	0.032754
4637	bta-miR-4286	ENSBTAG00000037717	0.021658
4638	bta-miR-4286	ENSBTAG00000007389	0.000213
4639	bta-miR-4286	ENSBTAG00000001483	0.049859
4640	bta-miR-4286	ENSBTAG00000045531	0.035853
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4642	bta-miR-4286	ENSBTAG00000000342	0.023409
4643	bta-miR-4286	ENSBTAG00000017877	0.008706
4644	bta-miR-4286	ENSBTAG00000011433	0.013894
4645	bta-miR-4286	ENSBTAG00000032372	0.035995
4646	bta-miR-4286	ENSBTAG00000004650	0.016161
4647	bta-miR-4286	ENSBTAG00000006582	0.01851
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4649	bta-miR-4286	ENSBTAG00000008025	0.032753
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4653	bta-miR-4286	ENSBTAG00000025964	0.039197
4654	bta-miR-4286	ENSBTAG00000017594	0.035918
4655	bta-miR-4286	ENSBTAG00000045506	0.006567

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4662	bta-miR-4286	ENSBTAG00000040279	0.023409
4663	bta-miR-4286	ENSBTAG00000015591	0.027111
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4666	bta-miR-4286	ENSBTAG00000020445	0.016161
4667	bta-miR-4286	ENSBTAG00000025181	0.043904
4668	bta-miR-4286	ENSBTAG00000002683	0.027755
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4670	bta-miR-4286	ENSBTAG00000024663	0.012171
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4710	bta-miR-4286	ENSBTAG00000003259	0.043447
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4712	bta-miR-4286	ENSBTAG00000018847	0.026998
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4714	bta-miR-4286	ENSBTAG00000019049	0.032753
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4716	bta-miR-4286	ENSBTAG00000040427	0.039197
4717	bta-miR-4286	ENSBTAG00000008964	0.029423
4718	bta-miR-4286	ENSBTAG00000013658	0.040433
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4720	bta-miR-4286	ENSBTAG00000011059	0.04809
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4739	bta-miR-450a	ENSBTAG00000015415	0.045792
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4747	bta-miR-450a	ENSBTAG00000019644	0.026504
4748	bta-miR-450a	ENSBTAG00000011658	0.004697
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4796	bta-miR-450b	ENSBTAG00000002828	0.007395
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4807	bta-miR-450b	ENSBTAG00000038496	0.033377
4808	bta-miR-450b	ENSBTAG00000020710	0.009908
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4862	bta-miR-486	ENSBTAG00000008025	0.014941
4863	bta-miR-486	ENSBTAG00000021508	0.006718
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4867	bta-miR-486	ENSBTAG00000004551	0.038803
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4873	bta-miR-486	ENSBTAG00000014325	0.046353
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4892	bta-miR-486	ENSBTAG00000013495	0.048566
4893	bta-miR-486	ENSBTAG00000046176	0.025683
4894	bta-miR-486	ENSBTAG00000018250	0.031869
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4897	bta-miR-487b	ENSBTAG00000002808	0.009995
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4907	bta-miR-487b	ENSBTAG00000006948	0.044242
4908	bta-miR-487b	ENSBTAG00000011150	0.015812
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4916	bta-miR-487b	ENSBTAG00000012708	0.03509
4917	bta-miR-487b	ENSBTAG00000009650	0.00572
4918	bta-miR-487b	ENSBTAG00000019748	0.047112
4919	bta-miR-487b	ENSBTAG00000017683	0.026735

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4922	bta-miR-628	ENSBTAG00000016151	0.03156
4923	bta-miR-628	ENSBTAG00000002319	0.018781
4924	bta-miR-628	ENSBTAG00000010132	0.047817
4925	bta-miR-628	ENSBTAG00000007986	0.006689
4926	bta-miR-628	ENSBTAG00000017942	0.026207
4927	bta-miR-628	ENSBTAG00000021225	0.013597
4928	bta-miR-628	ENSBTAG00000025320	0.030694
4929	bta-miR-628	ENSBTAG00000039630	0.028049
4930	bta-miR-628	ENSBTAG00000048272	0.001802
4931	bta-miR-628	ENSBTAG00000008101	0.017156
4932	bta-miR-628	ENSBTAG00000000342	0.024698
4933	bta-miR-628	ENSBTAG00000021367	0.040746
4934	bta-miR-628	ENSBTAG00000002084	0.047414
4935	bta-miR-628	ENSBTAG00000002676	0.041565
4936	bta-miR-628	ENSBTAG00000020754	0.025489
4937	bta-miR-628	ENSBTAG00000008350	0.020729
4938	bta-miR-628	ENSBTAG00000019772	0.027695
4939	bta-miR-628	ENSBTAG00000005929	0.019092
4940	bta-miR-628	ENSBTAG00000018247	0.025649
4941	bta-miR-628	ENSBTAG00000006999	0.036554
4942	bta-miR-628	ENSBTAG00000008129	0.017342
4943	bta-miR-628	ENSBTAG00000037687	0.022951
4944	bta-miR-628	ENSBTAG00000014325	0.009562
4945	bta-miR-628	ENSBTAG00000013100	0.029396
4946	bta-miR-628	ENSBTAG00000009822	0.007124
4947	bta-miR-628	ENSBTAG00000013290	0.01163
4948	bta-miR-628	ENSBTAG00000001295	0.036361
4949	bta-miR-628	ENSBTAG00000004786	0.000507
4950	bta-miR-628	ENSBTAG00000018010	0.022464
4951	bta-miR-628	ENSBTAG00000014405	0.035194
4952	bta-miR-628	ENSBTAG00000034991	0.04864
4953	bta-miR-628	ENSBTAG00000018058	0.000532
4954	bta-miR-628	ENSBTAG00000013011	0.04248
4955	bta-miR-628	ENSBTAG00000010790	0.031083
4956	bta-miR-628	ENSBTAG00000024950	0.026051
4957	bta-miR-628	ENSBTAG00000000291	0.006139
4958	bta-miR-628	ENSBTAG00000034586	0.028485
4959	bta-miR-628	ENSBTAG00000007248	0.038116
4960	bta-miR-628	ENSBTAG00000047061	0.037136
4961	bta-miR-628	ENSBTAG00000015166	0.006821
4962	bta-miR-628	ENSBTAG00000002703	0.021176
4963	bta-miR-628	ENSBTAG00000015294	0.021118

4964	bta-miR-628	ENSBTAG00000015335	0.039541
4965	bta-miR-628	ENSBTAG00000016609	0.002577
4966	bta-miR-628	ENSBTAG00000001552	0.011547
4967	bta-miR-628	ENSBTAG00000008093	0.04166
4968			