

cbriggsae	chromosome:chrI:5315777:5315874:-1	Same_strand Intronic_coding NM_001011629 ## Opposite_strand Intronic_coding NM_033488 ## Opposite_strand Boundary_coding NM_001012940 ## Opposite_strand Exonic_coding NM_132275
celegans	chromosome:chrV:16959125:16959226:1	Opposite_strand Intronic_coding Y102A5C.18
cbrenneri	chromosome:chrUn:110630909:110631036:-1	intergenic
cjaponica	chromosome:chrUn:51398755:51398899:-1	intergenic

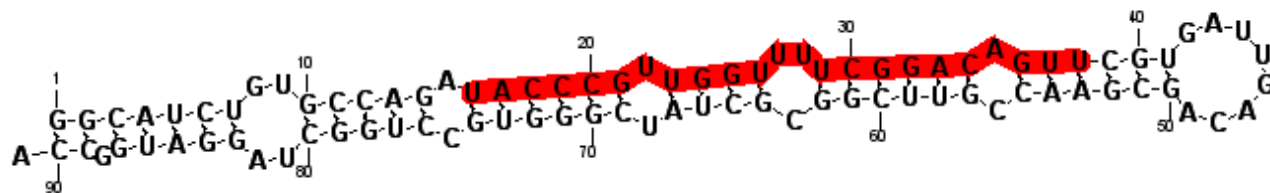
block9540 [novel cloningHIGH randfoldOK]

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.48/0.50	23/24/1.00	0.0	0.0	23	0	1	0	15	3	5arm	1	nd	0.17	2	30	1	na	na

Clusters

Located in cluster 17: block9537 cand, block9538 novel, block9539 novel, block9540 novel, sblock213 novel, block9543 cand, block9544 novel



seed	-----ACCCGUU-----									
	-----TACCCGTT-----GGTTT-----TCGGA--CAGTT-----									
	-----TACCCGTT-----GGTTT-----TCGGA--CAGTTC-----									
ppacificus	GGCATCTGTGCCAGA-	-----TACCCGTT-----		GGTTT-----		TCGGA--CAGTTCTCGTG-----		ATTGACAGCGAACC		GGTTT
cbriggsae	-----CAAAACCAAAACGATCCACTTTGAACCGAGTTA	TACCCGTTT		GACATTGGTGGCCTAGAAATTTGAAATTTCTAGGCCACCGGATACAAATCGCTGTA		AACTCTGCTTG--		AAGTAGTCCA		-----
celegans	-----TACCCGTT-----	TACCCGTT-----		GTTT-----		CATTTGAT--CAAATCACC-----		CTTGTAATAAGTGC		CAATG
		*****		***		** **		*** *		*
	+++++	+++++		+++++		+++++		+++++		+++++
	+++++	+++++		+++++		+++++		+++++		+++++
	+++++	+++++		+++++		+++++		+++++		+++++
	-----	-----		-----		-----		-----		-----
	+++++	+++++		+++++		+++++		+++++		+++++
	+++++	+++++		+++++		+++++		+++++		+++++
ppacificus	((((((((.	((((.		(((.		(((.		(((.		(((.
cbriggsae	((((((((.	((((.		(((.		(((.		(((.		(((.
celegans	((((((((.	((((.		(((.		(((.		(((.		(((.

ppacificus	chromosome:chrUn:49876653:49876743:1	Same_strand Intronic_coding NM_008140 Gnat1 ##	Opposite_strand Intronic_non-coding NM_001086814 pl10 ##
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[illegible]

ppacificus	chromosome:chrUn:2088313:2088432:1	Same_strand Intronic_non-coding NM_080105 cpo ## Same_strand Intronic_coding NM_169781 cpo ## Opposite_strand Intronic_non-coding NM_010570 Irs1 ## Opposite_strand Intronic_coding NM_184109 Rtl1 ## {Repeats: no}
celegans	chromosome:chrV:3733588:3733738:-1	Same_strand Intronic_coding Y39H10A.4
cbrenneri	chromosome:chrUn:168069557:168069716:-1	intergenic

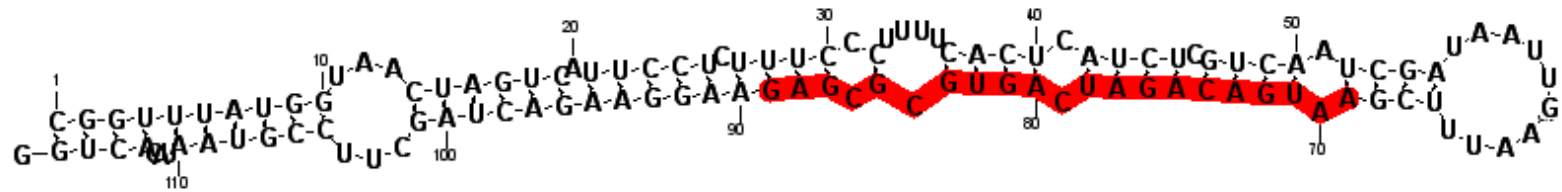
block6545 [novel_cloningOK_randfoldOK]

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.52/0.53	19/21/0.79	0.0	0.0	15	0	1	0	29	3	3arm	5	nd	0.24	3	19	1	na	na

Families

Member of family [novel3](#) (seed AUGACAG): [block6545_novel](#), [block6555_novel](#), [block6559_novel](#), [block6568_novel](#), [block16444_novel](#), [block16447_novel](#), [block16470_cand](#)



seed	-----AUGACAG-----
	-----AATGACAGA-----TCAGTGCGCGAG-----
	-----AATGACAGA-----TCAGTGCGCG-----
ppacificus cjaponica	-----CGGTTTATGGTAAGTATTCCTCTTT-----CCCTTTTCACTCA----TCTCGTCAATCGATA--ATTGAATTTCAATGACAGA----TCAGTGCGCGAGAAGG-----AAGACTT GCGTAGAGTTTTCTTGAGTGTCAATTTGTATTTATGGACCTATTCAAGCGAGTTTTTGTCAATTTTAAACCAATGAA-----AATGACAGAAAATTTTCATTGAATAAATAGATACATCAAAACGA

ppacificus	chromosome:chrUn:95556118:95556217:1	Same_strand Intronic_non-coding NM_175692 A930034L06Rik ## {Repeats: no}
cremanei	chromosome:chrUn:144588271:144588410:-1	Opposite_strand Boundary_coding NM_005135 ## Opposite_strand Intronic_coding NM_009194 ## Opposite_strand Exonic_coding NM_068509
cbriggsae	chromosome:chrX:11616482:11616621:1	Same_strand Intronic_coding NM_010459 ## Opposite_strand Intronic_coding NM_001122952 ## Opposite_strand Exonic_coding NM_076657
celegans	chromosome:chrX:14712663:14712802:1	Same_strand Boundary_coding F33C8.1b
cbrenneri	chromosome:chrUn:138462303:138462442:1	intergenic
cjaponica	chromosome:chrUn:99604108:99604241:-1	Same_strand Intronic_coding NM_001114122

sblock123 [novel_cloningHIGH_multiarm_DicerOK_randfoldOK]

Hairpin parameters

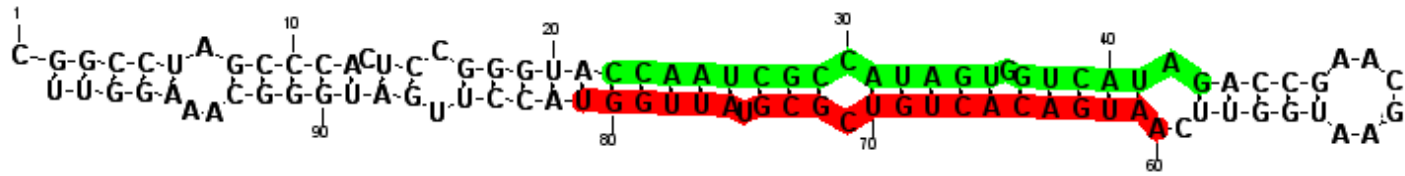
miRNA	randfold	RNA	rep	GC min/max	len min/ max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.42/0.50	18/23/0.99	0.0 0.0	0.0 0.0	2 321	0 0	1 1	0 0	21 19	4 6	5arm 3arm	1 1	nd nd	0.14 0.09	1 1	335	1	1	1

Clusters

Located in cluster 10: sblock123_novel, cel-mir-63

Families

Member of family **miR-64** (seed AUGACAC): [cel-mir-63](#), [cel-mir-63](#), [cel-mir-63](#), [cel-mir-63](#), [cel-mir-63](#), [cel-mir-63](#), [cel-mir-63](#), [cel-mir-63](#), [cel-mir-63](#), [cel-mir-63](#), [cel-mir-63](#), [cel-mir-65](#), [block387_novel](#), [sblock123_novel](#), [block385_cand](#), [sblock77_cand](#)



seed	-----AUGACAC-----
seed	-----CAA-----UCGC-----
seed	-----UGACAC-----U-----

seed	-----CAC-----UGUC-----			
	-----AATGACAC-----TGTGCGGTATTGGT----			
	-----AATGACAC-----TGTGCGGTATTGG----			
	-----ATGACAC-----TGTGCGGTATTGGT----			
	-----CCAA-----TCGCCATAGTGGTCATAG-----			
	-----AATGACAC-----TGTGCGGTATT-----			
	-----AATGACAC-----TGTGCGGTATTGGTA----			
	-----AATGACAC-----TGTGCGGTAT-----			
	-----ACAC-----TGTGCGGTATTGGTA----			
ppacificus	CGGCCTAGCCCACTCCGGGTACCAA-----TCGCCATAGTGGTCATAGACCG-AACGA-----ATGGTTCAATGACAC-----TGTGCGGTATTGGTACC			
cremanei	-----GTGCAAC-----ACCCGAATGTATCTATTTGAACGCAAGACGG-----TTATAAATGACAC-----ACGGGTGTA			
cbriggsae	TTGGTTCGATTCCCTTCTGGTCTAGCA----TACGGTATTTGAATTTAATATCATTTTGTAGGACTG-GACGAAATCTACA----AAATGACACTAAATTCAAATACCGTATACCAAACCAGATCC			
celegans	-----TTCTTTAAAAACAAAAATCCAAAAAATTCATCGTGGTATTCTGTGCATGGACTGTGGCAGTAGCTGAAGTCTTGAATGACAC-----AGTCGCCAGAAAGA----			
cbrenneri	-----TATTTTGGGATAGATATGTCAAGTTTCAACGATA-----AAATTCAAATGACAC-----TGTCCCAAAATTAGA----			
		*	*	*

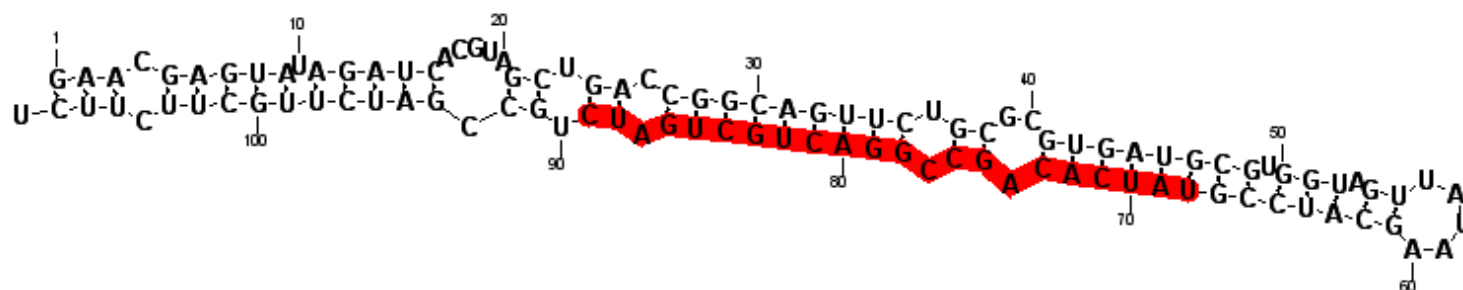
				*
	-----	-----	-----	-----
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	-----	-----	-----	-----
ppacificus	.(((.((((.(((((((	(((.((((.((((.((((		.))))).)))))
cremanei	.(((	(((.((((.(((((((		)))).)))))
cbriggsae	.(((	(((	(((	))
celegans		(((	(((	))
cbrenneri		(((	(((	))

block16493 [novel_cloningHIGH_randfoldOK]

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.002	no	no	0.52/0.61	18/22/0.97	0.0	0.0	378	0	1	0	19	7	3arm	1	nd	0.18	1	418	1	na	na

Located in cluster 30: sblock390 novel, block16493 novel

Member of family **miR-43** (seed AUCACAG): [block8236_novel](#), [block16493_novel](#), [block8237_cand](#)

[illegible]

ppacificus	chromosome:chrUn:160261330:160261437:1	Same_strand Intronic_coding NM_001109726 zgc:171740 ## {Repeats: no}
cremanei	chromosome:chrUn:126692870:126692991:-1	Opposite_strand Intronic_coding NM_073652 ## Same_strand Intronic_coding NM_067460

block5428 [novel_cloningHIGH_randfoldOK]

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.36/0.39	22/23/1.00	0.0	0.4	47	0	1	0	34	7	5arm	1	nd	0.14	2	47	1	na	na

Member of family **miR-73/74** (seed GGCAAGA): **cel-mir-72**, **block5428 novel**, **block398 cand**

Hairpin parameters



[illegible]

ppacificus|chromosome:chrUn:90337401:90337486:-1|Opposite_strand|Intronic_coding|NM_001127378|RAP1A ## Same_strand|Intronic_coding|NM_001014722|peb ##

		Opposite_strand Intronic_non-coding NM_213405 zgc:56630 ## {Repeats: no}
cremanei	chromosome:chrUn:91386178:91386290:1	Opposite_strand Intronic_coding NM_202978
cbriggsae	chromosome:chrIII:1065049:1065174:-1	Same_strand Intronic_coding NM_061083 ## Opposite_strand Intronic_coding NM_001010845 ## {SimpF: trf}
celegans	chromosome:chrIV:12941316:12941441:1	Opposite_strand Boundary_non-coding C32H11.12
cbrenneri	chromosome:chrUn:74524331:74524456:1	intergenic
cjaponica	chromosome:chrUn:48172873:48172998:1	Opposite_strand Intronic_coding NM_021343

sblock390 [novel_cloningHIGH_multiarm_DicerOK_randfoldOK]

Hairpin parameters

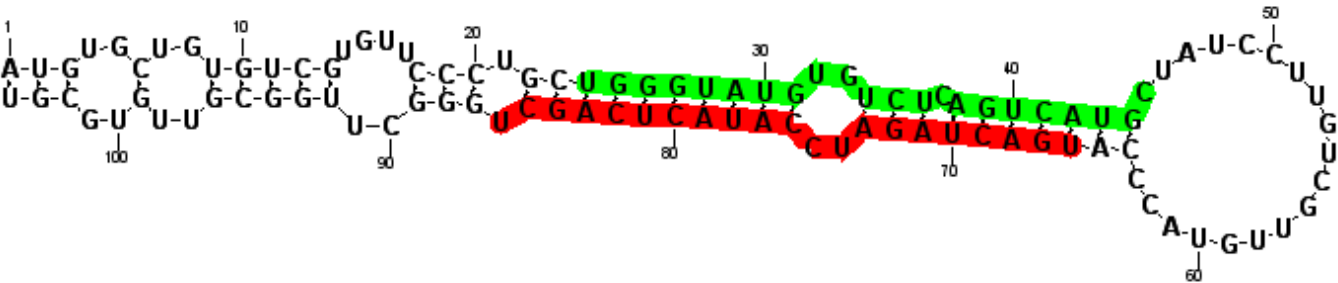
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.41/0.50	21/22/1.00	0.0 0.0	0.0 0.0	1 214	0 0	1 1	0 0	23 18	-1 2	5arm_loop 3arm	1 1	nd nd	0.23 0.14	2 2	226	1	3	3

Clusters

Located in cluster 30: sblock390_novel, block16493_novel

Families

Member of family miR-44/45/61 (seed GACUAGA): cbr-mir-45, sblock390_novel



seed	-----GACUAGA-----
seed	-----UGACUAG-----
seed	-----GGGUAUG-----
	-----TGACTAGATCCATACTCAGCT-----
	-----ATGACTAGATCCATACTCAGCT-----
	-----ATGACTAGATCCATACTCAGC-----
	-----TGGGTATG-TGTCTCAGTCATGC-----
ppacificus	ATGTGCTGTGTCGTGTTT-----C--CTGC--TGGGTATG-TGTCTCAGTCATGCTATCC---TTGTCGTTGTACCCATGACTAGATCCATACTCAGCTGGGCTT-----GGCGTTGT
cremanei	----TCTTTGGGGATTCCATGAATTC--GTGA--TAATTAT-----TCAATCACC-----CACACGACTAGAC-----AATTCTCA
cbriggsae	GTGCTCTTTGGAGGCGTCAGAGCACCTACCGA--CAAATATGTCTTATCAGTTTTTCTTGAT---CAGAGAT-----TGACTAGATTTGTTTTTGGTGAGGTCGCTTTTTTTGGAGGTTCTCT
cbrenneri	---GGCCAAGGAGACGAAGAGAGAATGGCCGATCTGGATGTG-CTCGTTAGTCATAGACGATACACAGAGAACGGTCATATGACTAGAGACACATTTCAGCTTGGCCT-----GGATCTC

ppacificus	chromosome:chrUn:160261176:160261279:1	Same_strand Intronic_coding NM_001109726 zgc:171740 ## {Repeats: no}
cremanei	chromosome:chrUn:21269534:21269677:-1	Same_strand Intronic_coding NM_180914 ## Opposite_strand Intronic_coding NM_001031159
cbriggsae	chromosome:chrV_random:1139821:1139942:1	Opposite_strand Intronic_coding NM_070863 ## Same_strand Intronic_coding NM_062358
cbrenneri	chromosome:chrUn:172696445:172696554:1	intergenic

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.56/0.58	18/24/0.89	0.0 0.0	0.3 0.0	7 1	0 0	1 1	0 0	19 18	7 7	5arm 3arm	1 1	nd nd	0.26 0.19	3 2	9	1	3	1

[illegible]

block6855 [novel_cloningOK_randfoldOK]

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.33/0.39	18/21/0.71	0.0	1.0	12	0	1	0	27	6	3arm	1	nd	0.11	1	14	1	na	na

	-----TTATTGCTCAA-GAATGCCAAT-----
	-----TTATTGCTCAA-GAATGCC-----
	-----TTATTGCTCAA-GAATGCCAA-----
ppacificus	CCGATCCTCTCCAATCCCGCTCACGCTGGGCATTCTTT---AGTGAATAACACGTTTGATACGAAGAAC----TGTTATTGTCTCAA-GAATGCCAATCGTGATGGATAACGAGGGAGGAGCAGG
cremanei	-----ATGAGCCTATTACAAGGTTGCCAAAAAAAAC-AAAAGGCGAT-----TTATTGCTAAT-AGTAGCTAGT-----
cbriggsae	-----TGATTCTGATTCAAGCCGTATCGAGAAATTTTGTTTC-----TGGTATTGCTAGA-AAGAAAA--
cbrenneri	-----AAACGGTATTCTTT---GGTAATAATAAGGATGGCATCACGACTCATTATATTATTGCTCAA-GAATACCCTTT-----
cjaponica	-----GCTAAGAGCCATCTTC---GGCGGGTAATAGCCAT-ATACGACGGC-----TAATATTGCTTAATGGCTAACAGC-----
	** *****

ppacificus	chromosome:chrUn:170378240:170378355:-1	Opposite_strand Intronic_non-coding NM_000209 PDX1 ## Same_strand Intronic_non-coding NM_016248 AKAP11 ## {Repeats: no}
cremanei	chromosome:chrUn:70810702:70810857:-1	intergenic
cbriggsae	chromosome:chrV:13083902:13084057:1	Same_strand Intronic_coding NM_063725 ## Opposite_strand Intronic_coding NM_074696 ## Same_strand Boundary_non-coding NM_074680
cbrenneri	chromosome:chrUn:164687999:164688154:-1	intergenic
cjaponica	chromosome:chrUn:88304351:88304506:-1	intergenic

Hairpin parameters

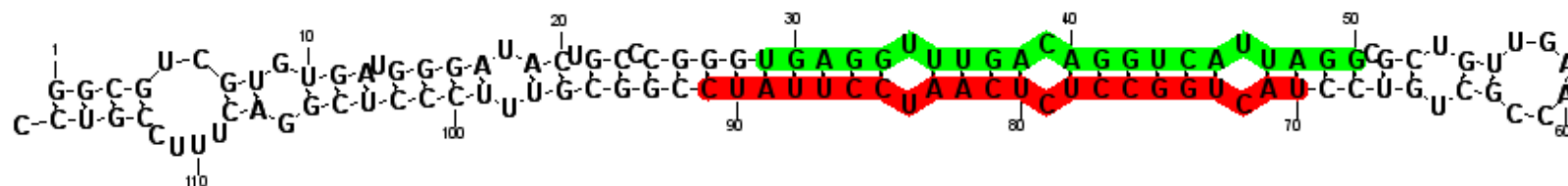
Clusters

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.45/0.45	22/22/1.00	0.0 0.0	0.0 0.0	11 18	0 0	1 1	0 0	28 26	6 7	5arm 3arm	1 1	nd nd	0.18 0.14	1 1	29	1	2	2

Clusters

Located in cluster 12: block5311 cand, sblock125 novel



ppacificus	chromosome:chrUn:127347724:127347840:-1	Opposite_strand Intronic_non-coding NM_140939 CG17233 ## Opposite_strand Intronic_coding NM_168837 CG17233 ## {Repeats: no}
cremanei	chromosome:chrUn:101972473:101972543:-1	intergenic
celegans	chromosome:chrII:1671973:1672129:1	Same_strand Intronic_coding F58E1.6a ## {SimpF: trf}

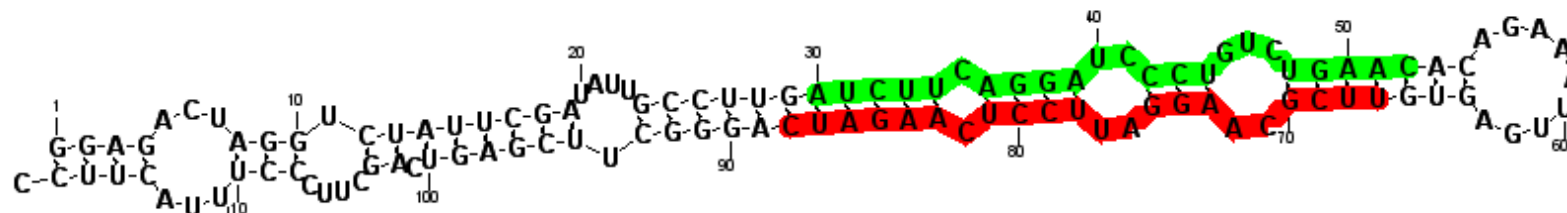
sblock239 [novel_cloningOK_multiarm_DicerOK_randfoldOK]

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.43/0.48	21/23/1.00	0.0 0.0	0.0 0.0	1 18	0 0	1 1	0 0	29 30	2 3	5arm 3arm	10 10	nd nd	0.26 0.23	3 2	21	1	1	1

Located in cluster 21: sblock239 novel, sblock240 novel, sblock241 novel, sblock242 novel, sblock243 novel

Member of family [novel2](#) (seed UCGCAAG): [sblock239_novel](#), [sblock240_novel](#), [sblock241_novel](#), [sblock242_novel](#), [sblock243_novel](#), [sblock5_novel](#), [sblock6_novel](#), [sblock9_novel](#), [sblock7_cand](#)

[illegible]

ppacificus	chromosome:chrUn:70644944:70645061:1	Opposite_strand Intronic_coding NM_077023 sulp-3 ## {SimpF: trf}
cremanei	chromosome:chrUn:17135136:17135293:1	Same_strand Exonic_coding NM_001011069 ## Same_strand Boundary_coding NM_001004599 ## Same_strand Boundary_non-coding NM_001050414
cjaponica	chromosome:chrUn:9659728:9659885:1	intergenic

Hairpin parameters

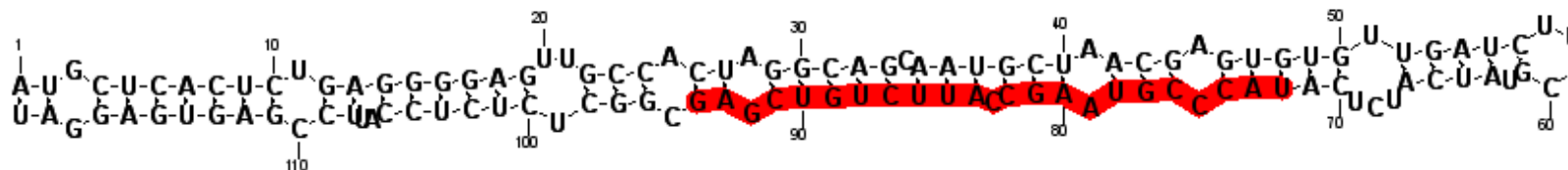
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.47/0.55	18/23/0.99	0.0	0.0	1042	0	1	0	26	9	3arm	1	nd	0.22	1	1137	1	na	na

Clusters

Located in cluster 29: block15318 novel, block15319 novel

Families

Member of family [miR-51/52/55](#) (seed ACCCGUA): [block7028_novel](#), [block7029_novel](#), [block9544_novel](#), [block15318_novel](#), [block15319_novel](#), [sblock162_novel](#), [sblock213_novel](#), [sblock279_novel](#), [sblock280_novel](#), [block9543_cand](#)



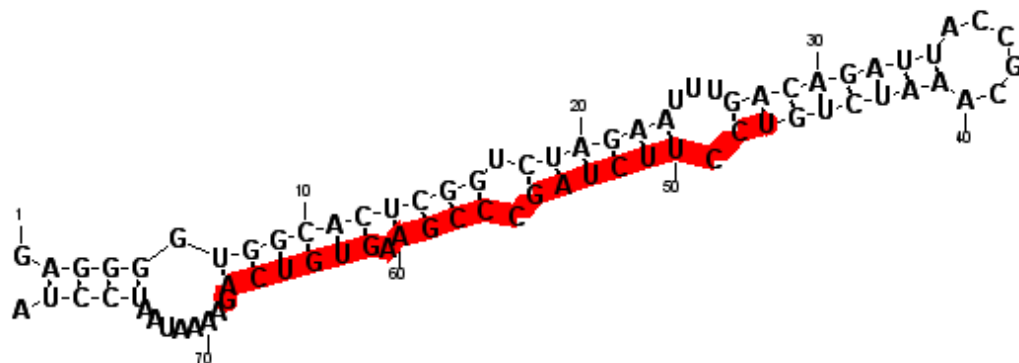
seed	-----ACCCGUA-----	
seed	-----GUAAGCC-----	
seed	-----CCCGUAA-----	
seed	-----UACCCGU-----	
	-----TACCCGTAAGCCATTCTGTGCGAG-----	2
	-----TACCCGTAAGCCATTCTGTGCG-----	2
	-----TACCCGTAAGCCATTCTGTC-----	2
	-----TACCCGTAAGCCATTCTGT-----	1
	-----CGTAAGCCATTCTGTGCGAG-----	1
	-----TACCCGTAAGCCATTCTG-----	1
	-----ATACCCGTAAGCCATTCTGTGCG-----	2
	-----TACCCGTAAGCCATTCTGTGCGA-----	2
	-----ACCCGTAAGCCATTCTGTGCGAG-----	2
ppacificus	atgctcactctgaggggagtgtgccactaggcagcaatgctaacgagtgtgttgatctttcgatatcatctcaTACCCGTAAGCCATTCTGTGCGAGcggtctcttccattccgagtgaggat *****	
	+++++	N
	-----	N
	+++++	N
	-----	N
	+++++	N
ppacificus	((.(((((((.((((((((.(.((.(.(((((.((((((.(.(((((.(((((.))))))..)))))).)))..))))).)))..))))).)))..))))).)))..))))).)))..))))).	1

ppacificus	chromosome:chrUn:139887484:139887603:1	Same_strand Intronic_coding NM_023879 Rpgrip1 ## Opposite_strand Intronic_non-coding NM_100443 5PTASE13/AT5PTASE13 ## Same_strand Intronic_non-coding NM_019711 Rbms2 ## {Repeats: no}
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block268 [novel_cloningOK_randfoldOK]

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.55/0.55	22/22/1.00	0.0	0.0	19	0	1	0	12	6	3arm	1	nd	0.23	2	19	1	na	na



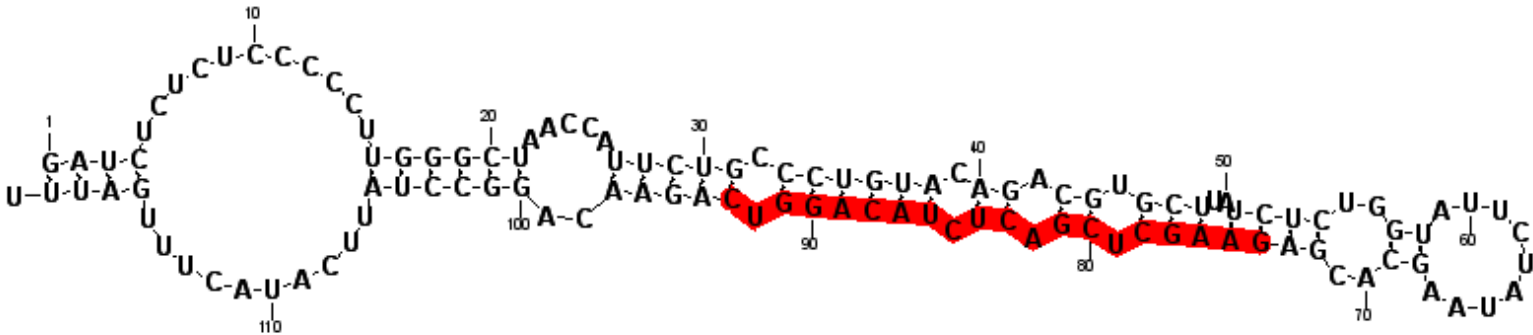
	CCUUCUA									
seed	-----CCUUCUA-----									
	-----TCCTTCTAGCC-----CGAAGTGTCTAG-----									
ppacificus	-----GAGGGGTGGCACTCGGTCTAG-----AATTGACAGATTACCG---CAAATC-----TGTCCTTCTAGCC-----CGAAGTGTCTAGAAAAATAATCCTA----									
cremanei	-----TTCTAGATTGAGAGGAGAAGTAACTT-----AAAACATCATGTATTTTCCTTCTAGCC-----TCAATTCTGAA-----									
cbriggsae	-----AGGGAGAAGTATTAGACTTTAGGATTAATCTTACGTACCCGA-----AAAACA-----AGACCTTCTAAGC-----TCATCTGCCCA-----									
cbrenneri	AGTTTGAAAAAAAAAAGTTTTTTGAGCTCGCGCTTCTCCTAAAGGGTGTTTGTTTTAAAAA-----CATCCTTCTAGTGCTGGGTTTTTCAGATATCTTTCACTCATTGTTGGATT									
		* * *		* *		***		*****		* *
	----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ppacificus	.(((.(((((((.((((((.((((((((.... ..)))))).))))).))).))))).)))).									
cremanei	...(((.((((((...(((...(((.(... ..))) .)))..))).))))..									
cbriggsae	.(((...((....(((.((((((...(((... ..))).))))).))..)))..									
cbrenneri	(((.(...(((....(((((((((((((((...((((((((((((... ..))))))))).)))).)))).)))).)))).)))).									

ppacificus	chromosome:chrUn:11709201:11709280:-1	Opposite_strand Intronic_non-coding NM_172085 Pou3f2 ## {Repeats: no}
cremanei	chromosome:chrUn:53741562:53741681:1	Same_strand Intronic_coding NM_067125
cbriggsae	chromosome:chrV:565452:565571:-1	Opposite_strand Intronic_coding NM_071035 ## Same_strand Intronic_coding NM_001847
cbrenneri	chromosome:chrUn:188247856:188247969:-1	intergenic

block15468 [novel cloningHIGH randfoldOK]

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.006	no	no	0.53/0.55	19/20/0.81	0.0	0.0	26	0	1	0	27	6	3arm	1	nd	0.20	1	32	1	na	na

[illegible]

ppacificus	chromosome:chrUn:143574306:143574425:1	Same_strand Intronic_coding NM_067172 php-3 ## Opposite_strand Intronic_coding NM_007674 Cdx4 ## Opposite_strand Intronic_non-coding NM_010461 Hoxb8 ## {Repeats: no}
------------	--	---

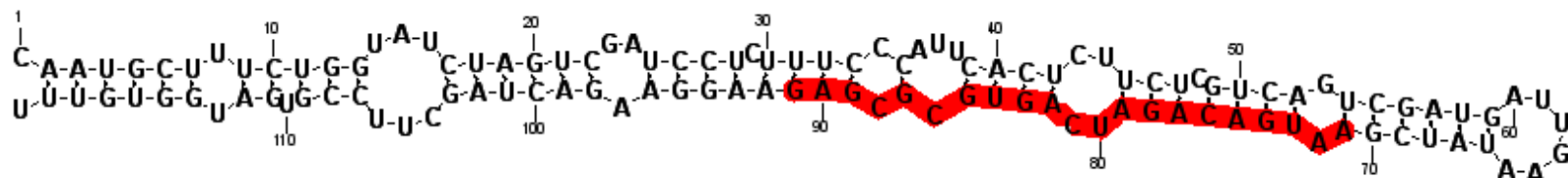
block16447 [novel_cloningOK_randfoldOK]

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.003	no	no	0.52/0.53	19/21/0.79	0.0	0.0	15	0	1	0	29	5	3arm	5	nd	0.29	3	19	1	na	na

Families

Member of family [novel3](#) (seed AUGACAG): [block6545_novel](#), [block6555_novel](#), [block6559_novel](#), [block6568_novel](#), [block16444_novel](#), [block16447_novel](#), [block16470_cand](#)

[illegible]

ppacificus	chromosome:chrUn:158438638:158438757:1	Opposite_strand Intronic_non-coding NM_001106424 RGD1562890 ## Same_strand Intronic_non-coding NM_005654 NR2F1 ## {Repeats: no}
------------	--	---

sbblock146 [novel_cloningHIGH_multiarm_DicerOK_randfoldOK]

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.33/0.57	20/23/1.00	0.0 0.0	0.0 0.0	49 1	0 0	1 1	0 0	24 19	3 5	5arm 3arm	1 1	nd nd	0.09 0.09	1 1	52	1	2	2

Hairpin parameters

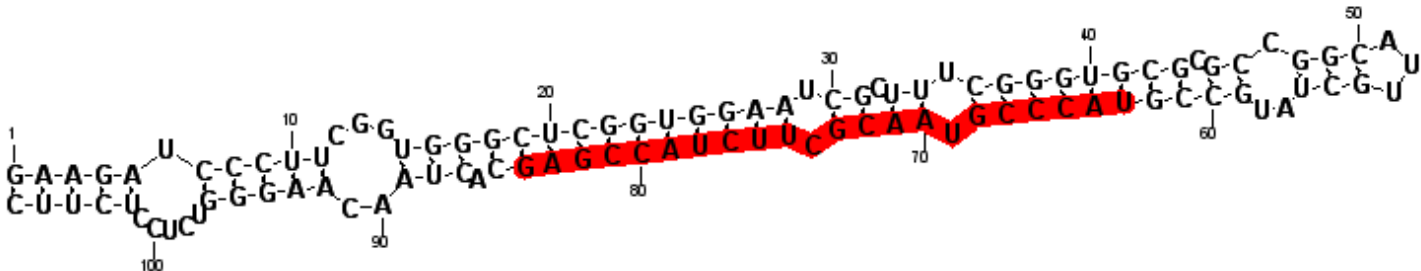
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.55/0.55	20/22/1.00	0.0	0.0	28	0	1	0	22	9	3arm	1	nd	0.09	1	32	1	na	na

Clusters

Located in cluster 29: block15318 novel, block15319 novel

Families

Member of family **miR-51/52/55** (seed ACCCGUA): [block7028_novel](#), [block7029_novel](#), [block9544_novel](#), [block15318_novel](#), [block15319_novel](#), [sblock162_novel](#), [sblock213_novel](#), [sblock279_novel](#), [sblock280_novel](#), [block9543_cand](#)

[illegible]

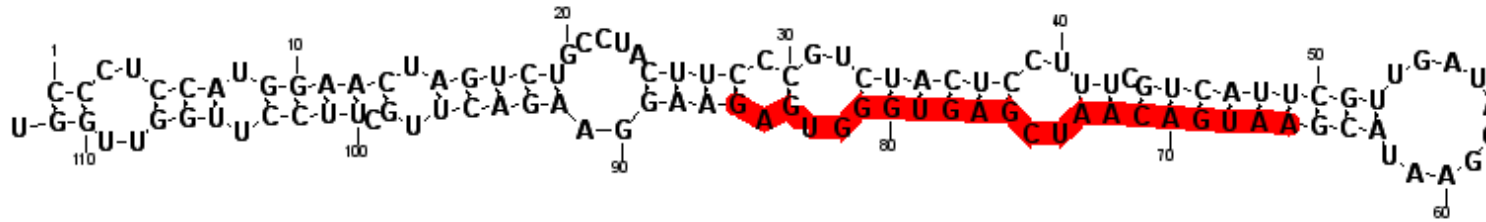
ppacificus	chromosome:chrUn:139887636:139887741:1	Same_strand Intronic_coding NM_023879 Rpgrp1 ## Opposite_strand Intronic_non-coding NM_100443 5PTASE13/AT5PTASE13 ## Same_strand Intronic_non-coding NM_019711 Rbms2 ## {Repeats: no}
celegans	chromosome:chrIV:9107636:9107781:-1	intergenic
cjaponica	chromosome:chrUn:66592796:66592889:-1	Same_strand Intronic_coding NM_001027065

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.48/0.50	20/21/1.00	0.0	0.0	11	0	1	0	26	3	3arm	2	nd	0.14	2	12	1	na	na

Families

Member of family novel5 (seed AUGACAA): block4989 novel, block11618 novel, block13895 novel



seed	-----AUGACAA-----													
seed	-----UGACA AU-----													
	-----A--ATGACAATC-GAGTGGGTGAG-----													21
	-----ATGACAATC-GAGTGGGTGAG-----													20
ppacificus	CCCTCCATGGAAGTAGTCTGCCTACTTCCCGTCTACTCCTTTTCGTCATTTCGTTGATAC---GAATACGA--ATGACAATC-GAGTGGGTGAGAAGGAAGACTTGCTTCCTTGGTTGGT													
cbriggsae	-----GATCGTCGTCCTTCTTTGTC--TGAAAC-----AAAACATTCATGACAATT-GGATTGATATG-----T													
celegans	-----CCTCCTCACTTCCTCTATTGTTGCTACCCTAAACACGGTCATGACAAGTACGAGTGGGGATG-----													
	* * * * * * * * * * * * *													
	+++++						+++++		+++++		+++++			NM_
	-----						-----		-----		-----			NM_
	+++++						+++++		+++++		+++++			NM_
	+++++						+++++		+++++		+++++			NM_
	-----						-----		-----		-----			NM_
ppacificus	(.(.(((.((((.(.....(((((.(((((((.(....(.....))))))))))..))))))))..)))).)))).)))).)))).)													1.0
cbriggsae	...(((((((.(.((((((((.....))))))))..)))).)))).) .													1.0
celegans	..(((((((.(.(((((((((.(.((((((....))))))))..)))))))))).) .													1.0

ppacificus	chromosome:chrUn:118520890:118521001:-1	Same_strand Intronic_coding NM_102771 ARF6 ## Opposite_strand Intronic_non-coding NM_214682 pscd1 ## {Repeats: no}
cbriggsae	chromosome:chrIV:14996368:14996519:1	Same_strand Intronic_coding NM_080629 ## Opposite_strand Intronic_coding NM_067727
celegans	chromosome:chrII:6170007:6170158:1	intergenic

sbblock218 [novel_cloningHIGH_multiarm_DicerOK_randfoldOK]

Hairpin parameters

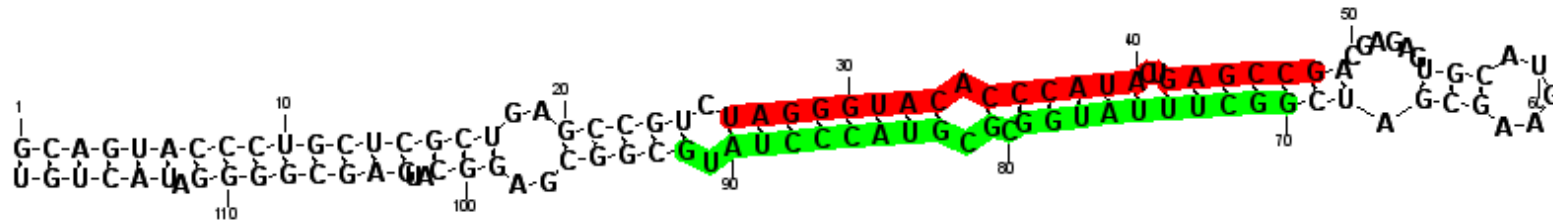
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.57/0.57	23/23/1.00	0.0 0.0	0.0 0.0	84 1	0 0	1 1	0 0	25 26	10 6	5arm 3arm	1 1	nd nd	0.17 0.17	2 3	85	1	1	2

Clusters

Located in cluster 18: sblock218_novel, block9864_cand, sblock219_novel, block9867_cand, block9868_novel

Families

Member of family novel10 (seed AGGGUAC): block9868_novel, sblock218_novel



ppacificus	chromosome:chrUn:57291597:57291714:1	Same_strand Intronic_non-coding NM_053103 Entpd7 ## Opposite_strand Intronic_coding NM_001081764 COL2A1 ## Same_strand Intronic_coding NM_000421 KRT10 ## {Repeats: no}
cbriggsae	chromosome:chrIII:10586107:10586177:-1	Same_strand Intronic_coding NM_000209 ## Opposite_strand Intronic_coding NM_170975
cjaponica	chromosome:chrUn:50921315:50921472:-1	Opposite_strand Intronic_coding NM_130931

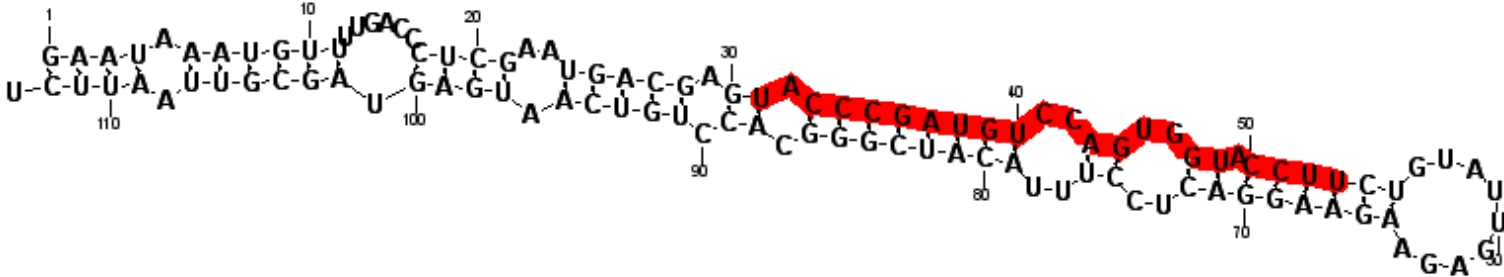
block6478 [novel_cloningOK_randfoldOK]

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.002	no	no	0.52/0.54	23/24/1.00	0.0	0.0	15	0	1	0	30	2	5arm	1	nd	0.26	2	16	1	na	na

Families

Member of family **novel4** (seed ACCCGAU): **block6478** novel, **block9539** novel, **block9537** cand, **sblock169** cand



ppacificus	chromosome:chrUn:153749595:153749707:-1	Same_strand Intronic_coding NM_133373 PLCD3 ## Opposite_strand Intronic_coding NM_013355 PKN3 ## {Repeats: no}
cbrenneri	chromosome:chrUn:33825956:33826108:-1	Opposite_strand Boundary_coding NM_064504
cjaponica	chromosome:chrUn:147296861:147297013:1	Opposite_strand Boundary_non-coding NM_058635

block677 [novel_cloningHIGH_randfoldOK]

Hairpin parameters

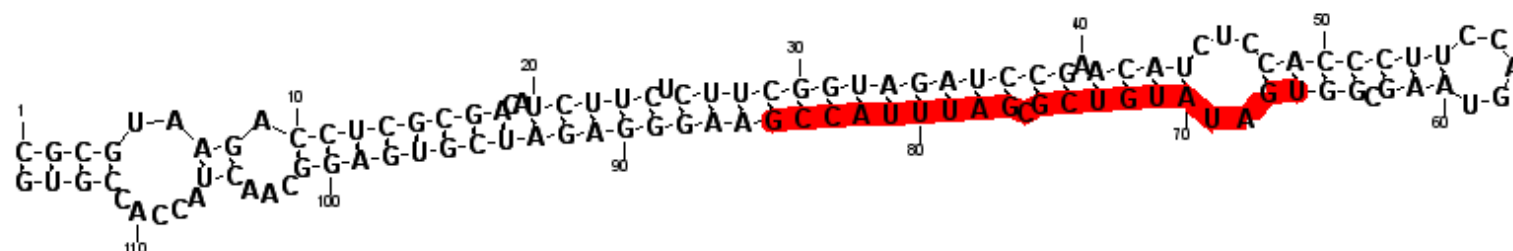
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.45/0.45	20/20/1.00	0.0	0.0	34	0	1	0	30	6	3arm	1	nd	0.15	2	34	1	na	na

Clusters

Located in cluster 5: block676_novel, block677_novel

Families

Member of family **miR-50/62/90** (seed GAUAUGU): **block676 novel**, **block677 novel**



	seed	-----GAUAUGU-----
		-----TGATATGTCGCGATTACCG-----
ppacificus	--CGCGTAAGACCTCGCGACATCTTCTCTTCGGTAGATCCGAACATCTCCACCCTTCCAGTAAGCGGTGATATGTCGCGATTTACCGAAGGGAGATCGTGAGGCCAACTACCACCGTG	20
cremanei	GAAGTGTGGATTATCAGAAAATT-----GCA-----TGCGATCAGCTTCGATATGTCTTGAT----GAAGCCGAAACTTCAATTGAATCGA-----	
cbriggsae	-----CTACAGTACTCTTTCTACAGTA-----TCCAGTTA--CTGATATGTAAAAGT----GCAGGTAG-----	
cbrenneri	--CTCTTTATTCATGACAGAATCCATGGCCGGTG-----GCTCTCGTTGATATGTTTTGA-----AAAAAGAG-----	
	* * *	
+++++	+++++	NM_1
+++++	+++++	NM_0
+++++	+++++	NM_0
ppacificus	(((((.(.(((((((((.(.((((((((((((.(.(((..((((((((.....)))...)))).))))).)))))))))....)))	0.98
cremanei	(((((.(.((((((.....((((((((.....)))...)))).)))))...))....)))	0.98
cbriggsae	(((((.(.(((((((((.(.(((((((.....))))).))...))))))...)))	0.99
cbrenneri	(((((.(.(((((((((.(.((((((()))...)))).)))))...)))	0.99

ppacificus	chromosome:chrUn:24360964:24361078:-1	Same_strand Intronic_coding NM_126491 AT2G04620 ## Same_strand Intronic_non-coding NM_001033238 Cblb ## {Repeats: no}
cremanei	chromosome:chrUn:148217589:148217665:-1	intergenic
cbriggsae	chromosome:chrX:17328103:17328257:-1	Opposite_strand Intronic_coding NM_001011629 ## Same_strand Intronic_coding NM_001003133
cbrenneri	chromosome:chrUn:117489689:117489750:-1	intergenic

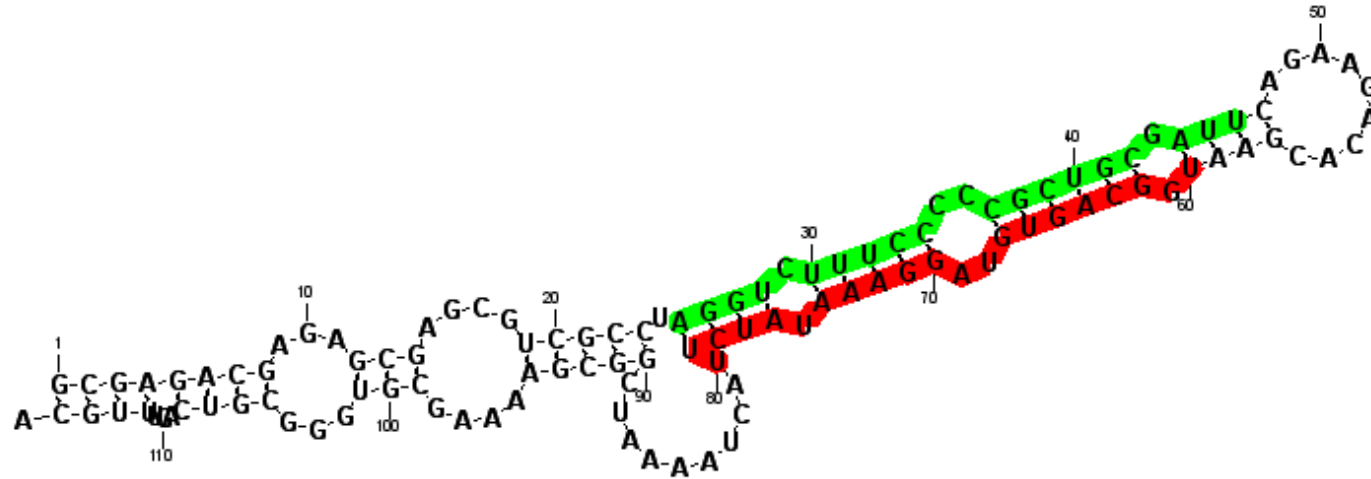
sbblock21 [novel_cloningHIGH_multiarm_DicerOK_randfoldOK]

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.009	no	no	0.36/0.59	18/24/0.98	0.0 0.0	0.0 0.0	1 51	0 0	1 1	0 0	24 36	1 3	5arm 3arm	2 2	nd nd	0.18 0.29	2 2	60	1	2	1

Families

Member of family novel7 (seed GGUCUUU): sblock21_novel, sblock395_novel

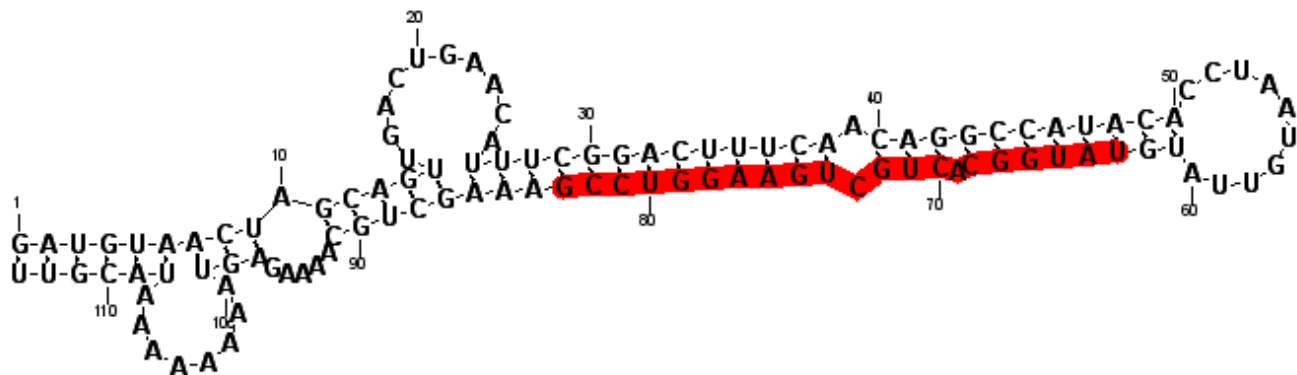


seed	-----GGCAGUG-----	
seed	-----UGGCAGU-----	
seed	-----GGUCUUU-----	
	-----TGGCAGTGTAGGAAATATCTT-----	21
	-----TGGCAGTGTAGGAAATATCTTAC-----	23
	-----AGGTCTTTCCCCCGCTGCGATT-----	22
	-----ATGGCAGTGTAGGAAATATCTT-----	22
	-----TGGCAGTGTAGGAAATATCTTA-----	22
	-----TGGCAGTGTAGGAAATAT-----	18
	-----TGGCAGTGTAGGAAATATCT-----	20
	-----TGGCAGTGTAGGAAATATCTTACT-----	24
ppacificus	gcgagacgagagcgagcgctcgccctaggtctttcccccgctgcgattcagaagacacgaaTGGCAGTGTAGGAAATATCTTactaaaatcggcgaaaagcggtgggcgctcagtttgca *****	

```

+++++ NM_00
+++++ NM_13
+++++ NM_20
+++++ NM_20
+++++ NM_20

```

			read
seed	-----AUGGCAC-----		23
seed	-----UGGCACU-----		1
			le
	-----TATGGCACTGCTGA-AGGTCCG-----		21
	-----ATGGCACTGCTGA-AGGTCC-----		19
ppacificus	GATGTAAGTAGCAGTTGACTGAACATTTTCGGACTTTCAACAGGCCATACACCTAATGTTATGTATGGCACTGCTGA-AGGTCCGAAAGCTGCAAAAGAGTAAAAAATACGTT		
cremanei	-----GAAATATGATATTGTAGTCCAATT-----AGGTATGGCACTGCGGTCCAGTTTC-----		
celegans	-----CGGTATACTACTTTGTTGCATTTTC-----AATTGAAGTATGGCACT-----TAGTATCACCG-----		
cbrenneri	-----CAAGTGTAGAGCCACGTCAGC-----ATCGATGGCACTGCTGAACCATTTG-----		
cjaponica	-----CGAATTCGAGACGTGCGCCAAAT-----ACATATGGCACACGTGT-CGATTTCG-----		
	* * * * *		
	+++++	+++++	NM_0010
	+++++	+++++	NM_0104
	+++++	+++++	NM_0659
	+++++	+++++	NM_0010
	+++++	+++++	NM_0010
ppacificus	((((((((.((((.....((((((((((((.((((((((((.....))))))))).))))).)))))).....)))).....))))))		0.590 -
cremanei	((((((((.((((.....((((((((((((.((((((((((.....))))))))).))))).)))))).....)))).....))))))		1.000 -
celegans	((((((((.((((.....((((((((((((.((((((((((.....))))))))).))))).)))))).....)))).....))))))		1.000 -
cbrenneri	((((((((.((((.....((((((((((((.((((((((((.....))))))))).))))).)))))).....)))).....))))))		0.998 -
cjaponica	((((((((.((((.....((((((((((((.((((((((((.....))))))))).))))).)))))).....)))).....))))))		1.000 -

ppacificus	chromosome:chrUn:15255644:15255756:-1	Same_strand Intronic_non-coding NM_001055022 Os02g0813800 ## Same_strand Intronic_coding NM_010455 Hoxa7 ## {Repeats: no}
cremanei	chromosome:chrUn:99940193:99940345:1	intergenic
celegans	chromosome:chrII:12411870:12412022:-1	Same_strand Boundary_coding Y57A10C.1
cbrenneri	chromosome:chrUn:25945890:25946042:-1	Opposite_strand Boundary_coding NM_001030406 ## Opposite_strand Intronic_coding NM_001052424
cjaponica	chromosome:chrUn:148863762:148863914:1	intergenic

ppacificus|chromosome:chrUn:158621413:158621523:-1|Opposite_strand|Intronic_non-coding|NM_005654|NR2F1 ## {Repeats: no}

sblock162 [novel_cloningHIGH_multiarm_DicerOK_randfoldOK]

Hairpin parameters

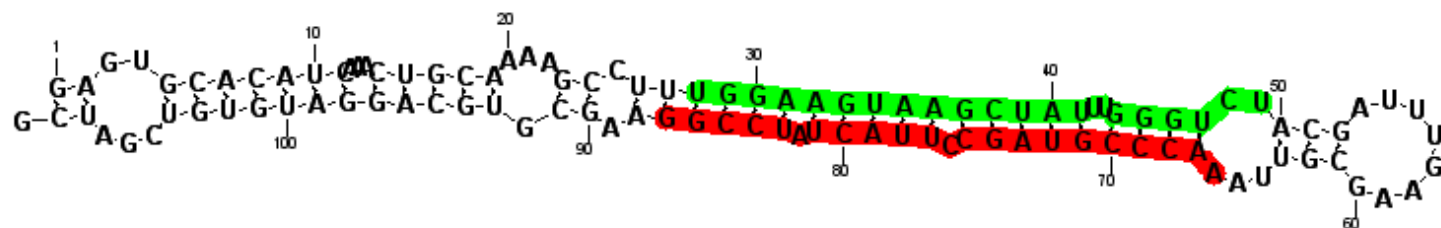
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.41/0.57	18/25/0.92	0.0 0.0	0.0 0.0	2 114	0 0	1 1	0 0	27 23	3 5	5arm 3arm	1 1	nd nd	0.18 0.09	2 1	131	1	1	1

Clusters

Located in cluster 14: block7028 novel, block7029 novel, sblock162 novel

Families

Member of family **miR-51/52/55** (seed ACCCGUA): [block7028 novel](#), [block7029 novel](#), [block9544 novel](#), [block15318 novel](#), [block15319 novel](#), [sblock162 novel](#), [sblock213 novel](#), [sblock279 novel](#), [sblock280 novel](#), [block9543 cand](#)

[illegible]

ppacificus	chromosome:chrUn:2088561:2088670:1	Same_strand Intronic_non-coding NM_080105 cpo ## Same_strand Intronic_coding NM_169781 cpo ## Opposite_strand Intronic_non-coding NM_010570 Irs1 ## Opposite_strand Intronic_coding NM_184109 Rtl1 ## {Repeats: no}
cbrenneri	chromosome:chrUn:147068430:147068579:1	Same_strand Intronic_coding NM_060455

sbblock8 [novel_cloningHIGH_multiarm_DicerOK_randfoldOK]

Hairpin parameters

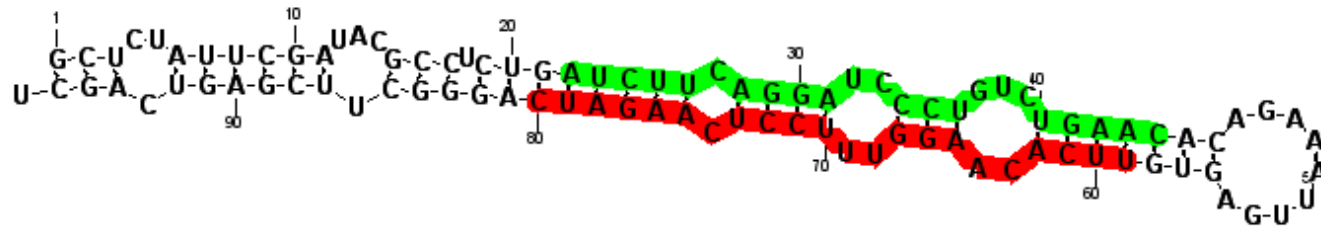
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.41/0.48	19/23/0.95	0.0 0.0	0.0 0.0	1 34	0 0	1 1	0 0	21 17	2 3	5arm 3arm	10 10	nd nd	0.26 0.23	3 2	41	1	1	1

Clusters

Located in cluster 2: sblock5_novel, sblock6_novel, sblock7_cand, sblock8_novel, sblock9_novel

Families

Member of family [novel1](#) (seed UCUUCAG): [sblock239_novel](#), [sblock240_novel](#), [sblock241_novel](#), [sblock242_novel](#), [sblock243_novel](#), [sblock5_novel](#), [sblock6_novel](#), [sblock8_novel](#), [sblock9_novel](#), [sblock7_cand](#)



ppacificus	chromosome:chrUn:8759695:8759791:-1	Opposite_strand Intronic_coding NM_141281 PEK ## {SimpF: trf}
cremanei	chromosome:chrUn:15150917:15151053:1	intergenic
cbriggsae	chromosome:chrUn:2861058:2861194:1	intergenic
cjaponica	chromosome:chrUn:71113291:71113427:1	Opposite_strand Intronic_coding NM_067309 ## Same_strand Intronic_coding NM_210683

block10920 [novel_cloningOK_randfoldOK]

Hairpin parameters

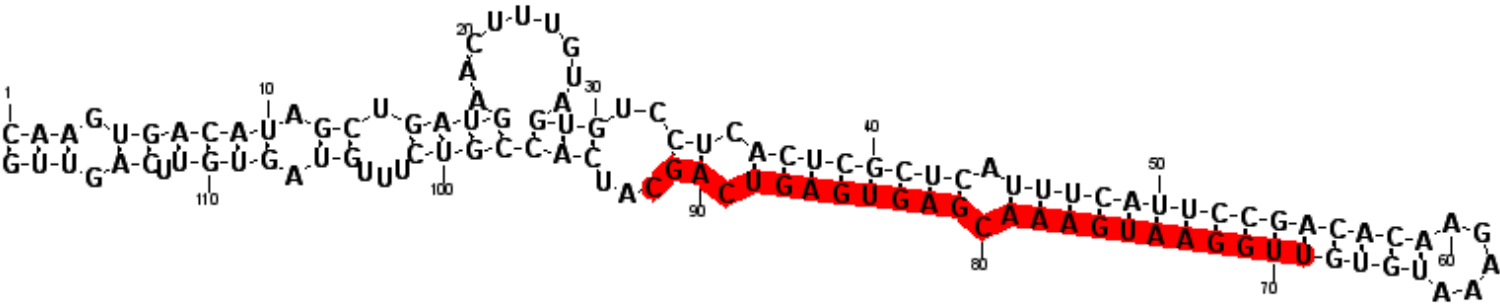
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.43/0.48	20/24/1.00	0.6	0.8	10	0	1	0	26	4	3arm	2	nd	0.10	1	12	1	na	na

Clusters

Located in cluster 23: block10919 novel, block10920 novel, block10921 cand

Families

Member of family novel12 (seed UGGAAUG): block10919 novel, block10920 novel



seed	-----UGGAAUG-----
seed	-----GGAAUGA-----
	-----TGGAATGAAACGA-----GTGAGTCAGC-----
	-----T--TGGAATGAAACGA-----GTGAGTC-----
	-----T--TGGAATGAAACGA-----GTGAGTCAG-----
	-----T--TGGAATGAAACGA-----GTGAGTCAGC-----
	-----TGGAATGAAACGA-----GTGAGTCAG-----
	-----TGGAATGAAACGA-----GTGAGTC-----
ppacificus	-----CAAGTGACATAGCT-----GATGAAC TTTGTAGTGTCTCTACTCGCTCATTTTCATTCCGACACAAGAAATGTGT-----TGGAATGAAACGA-----GTGAGTCAGCATCAC
cremanei	GTAAATGTCACTTTCGAATCGGTCCAGTTCATTGATTTCGTTCAATGATTGTCAT--CAGATCCAGAATATTCCAAAACAGTGTCT-----TGGAATGCAATTT-----GTTGTCTGAGCCAAAAGAGAC'
cbriggsae	-----TCT-----GA-----TTCGACAGCAATC--CTTGGTCATAACATC-----ACTT-----TGGAATGCAA-----
celegans	-----CTCAAAAGATCG-----AAC-----TTCATAACGAGAC--TTTG--AAAAAATGC-----AATTTT-----TGGAATG-----TCTCGTTATGAAATT

ppacificus	chromosome:chrUn:75760447:75760564:1	{Repeats: no}
cremanei	chromosome:chrUn:146831717:146831866:1	Opposite_strand Boundary_non-coding NM_175314 ## Opposite_strand Exonic_coding NM_069391 ## Opposite_strand Intronic_coding NM_001127433 ## Same_strand Intronic_coding NM_032085 ## Opposite_strand Boundary_coding NM_001106810
cbriggsae	chromosome:chrV:9407784:9407941:-1	Same_strand Exonic_coding NM_001029031 ## Same_strand Intronic_coding NM_001011629 ## Opposite_strand Intronic_coding NM_005334
celegans	chromosome:chrIII:4997561:4997647:-1	Same_strand Intronic_coding C27F2.8
cbrenneri	chromosome:chrUn:156053843:156053958:-1	intergenic ## {SimpF: trf}
cjaponica	chromosome:chrUn:71593210:71593310:-1	Opposite_strand Intronic_coding NM_136816

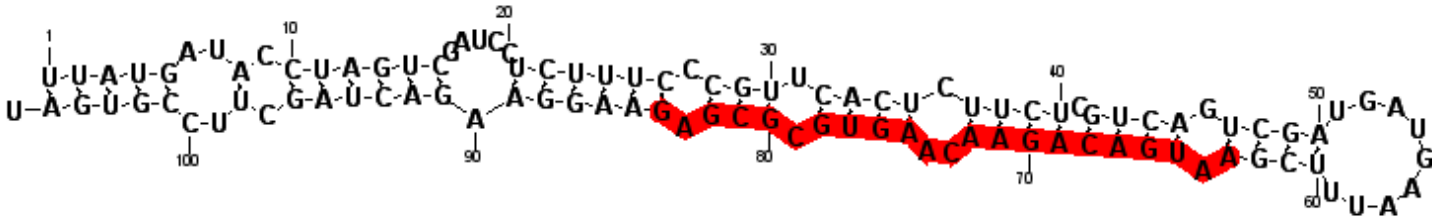
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.002	no	no	0.50/0.55	20/23/1.00	0.0	0.0	8	0	1	0	19	10	3arm	1	nd	0.22	2	10	1	na	na

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.004	no	no	0.50/0.52	20/22/1.00	0.0	0.0	12	0	1	0	22	3	3arm	1	nd	0.23	2	14	1	na	na

Families

Member of family [novel3](#) (seed AUGACAG): [block6545_novel](#), [block6555_novel](#), [block6559_novel](#), [block6568_novel](#), [block16444_novel](#), [block16447_novel](#), [block16470_cand](#)



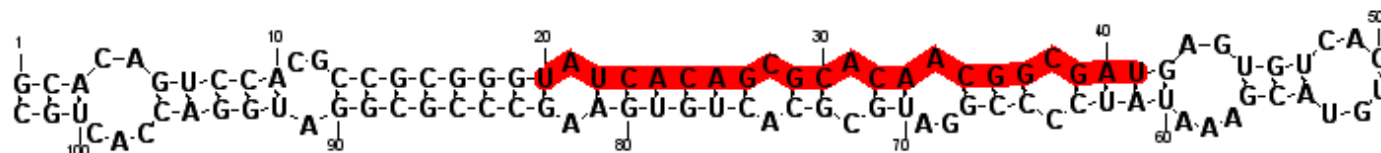
ppacificus	chromosome:chrUn:159275676:159275781:-1	Same_strand Intronic_non-coding NM_078871 RpS26 ## {Repeats: no}
cbrenneri	chromosome:chrUn:24917541:24917686:-1	intergenic
cjaponica	chromosome:chrUn:12999715:12999860:1	Opposite_strand Boundary_non-coding NM_065689

block8236 [novel_cloningHIGH_randfoldOK]

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.55/0.61	18/22/0.98	0.0	0.0	49	0	1	0	19	6	5arm	1	nd	0.23	1	54	1	na	na

Located in cluster 16: [block8236_novel](#), [block8237_cand](#)

Member of family **miR-43** (seed AUCACAG): **block8236** novel, **block16493** novel, **block8237** cand



ppacificus	chromosome:chrUn:24343647:24343748:-1	Opposite_strand Intronic_coding NM_126491 AT2G04620 ## Opposite_strand Intronic_non-coding NM_001086210 lmf2 ## {Repeats: no}
cremanei	chromosome:chrUn:17348232:17348373:-1	Same_strand Intronic_coding NM_131292 ## Opposite_strand Intronic_coding NM_059223 ## Opposite_strand Boundary_non-coding NM_059242
cbriggsae	chromosome:chrIV:7989286:7989427:-1	Same_strand Intronic_coding NM_007735 ## Opposite_strand Intronic_coding NM_210229 ## Same_strand Exonic_coding NM_020166 ## Same_strand Boundary_non-coding NM_209500

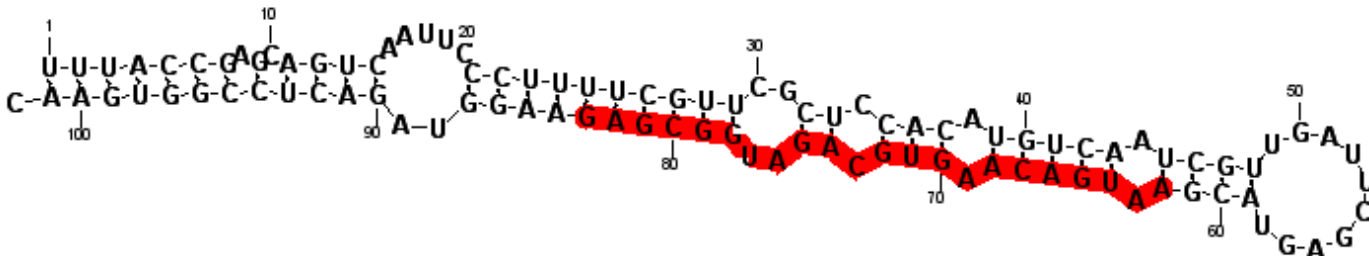
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Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.002	no	no	0.50/0.50	20/22/1.00	0.0	0.7	9	0	1	0	19	3	3arm	1	nd	0.23	2	10	1	na	na

Families

Member of family **novel5** (seed AUGACAA): **block4989_novel**, **block11618_novel**, **block13895_novel**



ppacificus	chromosome:chrUn:85605707:85605808:1	Opposite_strand Intronic_coding NM_001016583 nrx6-1 ## {Repeats: no}
cremanei	chromosome:chrUn:120511191:120511332:-1	intergenic

sblock240 [novel cloningHIGH multiarm DicerOK randfoldOK]

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.42/0.48	19/23/0.99	0.0 0.0	0.0 0.0	1 117	0 0	1 1	0 0	21 17	2 3	5arm 3arm	10 10	nd nd	0.26 0.23	3 2	138	1	1	1

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.42/0.48	19/23/0.99	0.0 0.0	0.0	1 117	0 0	1 1	0 0	21 17	2 3	5arm 3arm	10 10	nd nd	0.26 0.23	3 2	138	1	1	1

Clusters

Located in cluster 21: sblock239 novel, sblock240 novel, sblock241 novel, sblock242 novel, sblock243 novel

Families

Member of family [novel2](#) (seed UCGCAAG): [sblock239_novel](#), [sblock240_novel](#), [sblock241_novel](#), [sblock242_novel](#), [sblock243_novel](#), [sblock5_novel](#), [sblock6_novel](#), [sblock9_novel](#), [sblock7_cand](#)



ppacificus	chromosome:chrUn:70645366:70645462:1	Opposite_strand Intronic_coding NM_077023 sulp-3 ## {SimpF: trf}
cremanei	chromosome:chrUn:142319296:142319432:1	intergenic
cbrenneri	chromosome:chrUn:107495296:107495432:-1	Same_strand Boundary_non-coding NM_001076894 ## Same_strand Boundary_coding NM_058433

sblock9 [novel_cloningHIGH_multiarm_DicerOK_randfoldOK]

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.42/0.48	19/23/0.99	0.0 0.0	0.0 0.0	1 117	0 0	1 1	0 0	21 17	2 3	5arm 3arm	10 10	nd nd	0.26 0.23	3 2	138	1	1	1

Clusters

Located in cluster 2: sblock5 novel, sblock6 novel, sblock7 cand, sblock8 novel, sblock9 novel

Families

Member of family [novel2](#) (seed UGCAAG): [sblock239_novel](#), [sblock240_novel](#), [sblock241_novel](#), [sblock242_novel](#), [sblock243_novel](#), [sblock5_novel](#), [sblock6_novel](#), [sblock9_novel](#), [sblock7_cand](#)

[illegible]

$$\begin{array}{r} 0.969 \\ -17.00 \\ \hline \end{array}$$

ppacificus	chromosome:chrUn:8759833:8759929:-1	Opposite_strand Intronic_coding NM_141281 PEK ## {SimpF: trf}
cremanei	chromosome:chrUn:142319296:142319432:1	intergenic
cbrenneri	chromosome:chrUn:107495296:107495432:-1	Same_strand Boundary_non-coding NM_001076894 ## Same_strand Boundary_coding NM_058433

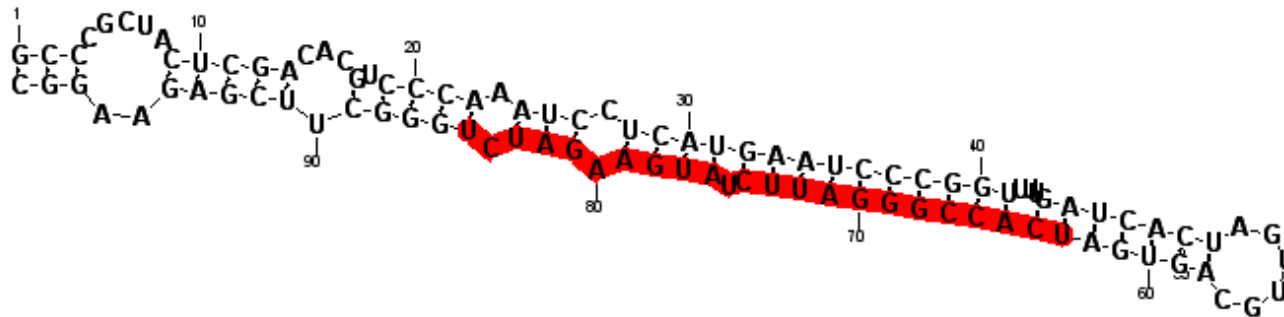
block16473 [novel_cloningOK_randfoldOK]

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.43/0.43	23/23/1.00	0.0	0.0	22	0	1	0	15	5	3arm	1	nd	0.13	1	22	1	na	na

Families

Member of family [miR-35/36/38/39/40/41](#) (seed CACCGGG): [cbr-mir-39](#), [block4438_novel](#), [block4440_novel](#), [block4442_novel](#), [block4444_novel](#), [block4446_novel](#), [block4449_novel](#), [block4451_novel](#), [block4453_novel](#), [block6540_novel](#), [block6541_novel](#), [block13918_novel](#), [block16473_novel](#), [block19_cand](#)



		reads	miRBase family seed
seed	-----CACC GGG-----	22	miR-35/36 /38/39 /40/41
		len	cloning frequencies
			PS312
	-----TCACCGGGATTCTATGAAGATCT-----	23	22
ppacificus	GCCCGCTACTCGACACGTCCCCAAATCCTCATGAATCCCGGTTTTGATCACTAGTTGCAGTGATCACCGGGATTCTATGAAGATCTGGGCTTCGAGAAGGC		
cbriggsae	-----CTACAGACTCATAACTCGGTGTTTTCAAT---GTTGACTTGGTCACCGGGA-----AGACGTCAAGAG---		
cjaponica	GCGCACTT-----GCATAGCAGCTCGCTGCCGGGCCGCCGATC---ATATGACGGCCACCGGGGGTTTGTGA-----AAGTGTGC		
	* * * * *		**
	+++++	NM_011049	
	-----	NM_078871	
	-----	NM_165252	

ppacificus	chromosome:chrUn:159226760:159226859:1	Same_strand Intronic_non-coding NM_011049 Pctk1 ## Opposite_strand Intronic_non-coding NM_078871 RpS26 ## {Repeats: no}
cbriggsae	chromosome:chrIII_random:574024:574163:-1	Opposite_strand Intronic_coding NM_001034977
cjaponica	chromosome:chrUn:116556444:116556515:1	Opposite_strand Intronic_coding NM_001027564

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.45/0.45	22/22/1.00	0.0	0.0	5	0	1	0	18	5	3arm	1	nd	0.09	1	5	1	na	na

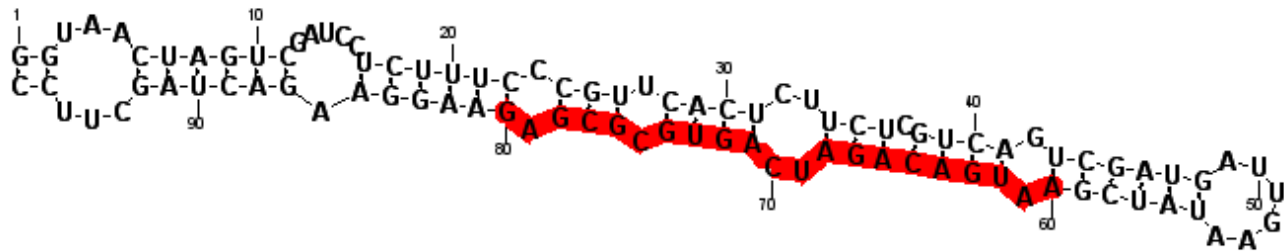
ppacificus	chromosome:chrUn:81421754:81421854:-1	Same_strand Intronic_coding NM_209655 AGOS_ADR206W ## Opposite_strand Intronic_non-coding NM_001108251 Ubqln2 ## Opposite_strand Intronic_coding NM_001064407 Os06g0561200 ## {Repeats: no}
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Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.002	no	no	0.52/0.53	19/21/0.79	0.0	0.0	15	0	1	0	17	5	3arm	5	nd	0.24	2	19	1	na	na

Families

Member of family [novel3](#) (seed AUGACAG): [block6545_novel](#), [block6555_novel](#), [block6559_novel](#), [block6568_novel](#), [block16444_novel](#), [block16447_novel](#), [block16470_cand](#)

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ppacificus	chromosome:chrUn:158918302:158918398:-1	Opposite_strand Intronic_coding NM_001034853 RPGR ## Same_strand Intronic_coding NM_028162 Tbc1d5 ## {Repeats: no}
cbriggsae	chromosome:chrI_random:1634686:1634822:1	Same_strand Intronic_coding NM_070996 ## Opposite_strand Intronic_coding NM_111044 ## Opposite_strand Boundary_coding NM_053011
celegans	chromosome:chrII:11697032:11697168:1	Same_strand Exonic_coding C47D12.8
cjaponica	chromosome:chrUn:61820214:61820350:-1	intergenic

block9539 [novel_cloningHIGH_randfoldOK]

Hairpin parameters

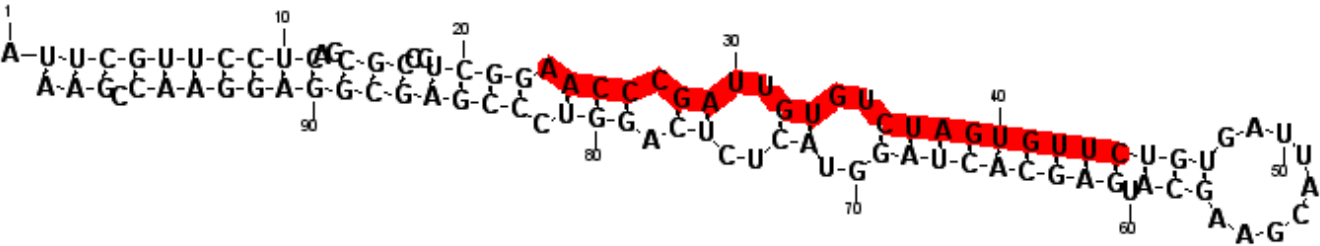
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.43/0.48	18/23/0.99	0.0	0.0	74	0	1	0	22	3	5arm	1	nd	0.23	2	99	1	na	na

Clusters

Located in cluster 17: block9537_cand, block9538_novel, block9539_novel, block9540_novel, sblock213_novel, block9543_cand, block9544_novel

Families

Member of family novel4 (seed ACCCGAU): block6478_novel, block9539_novel, block9537_cand, sblock169_cand



		reads	miRBase family s
seed	-----ACCCGAU-----	98	novel
seed	-----CCCGAUU-----	1	novel
		len	cloning frequenc
			PS312
	-----AACCCGATTGTGTCTAGTGTTT-----	22	74
	-----AACCCGATTGTGTCTAGTGTT-----	21	20
	-----AACCCGATTGTGTCTAGTGTTCT-----	23	3
	-----ACCCGATTGTGTCTAGTGTTT-----	21	1
	-----AACCCGATTGTGTCTAGT-----	18	1

ppacificus attcgttcctcagcgccctcggAACCCGATTGTGTCTAGTGTTTctgtgattacgaagcatgagcactaggtactctcaggtcccgagcggaggaaccgaa

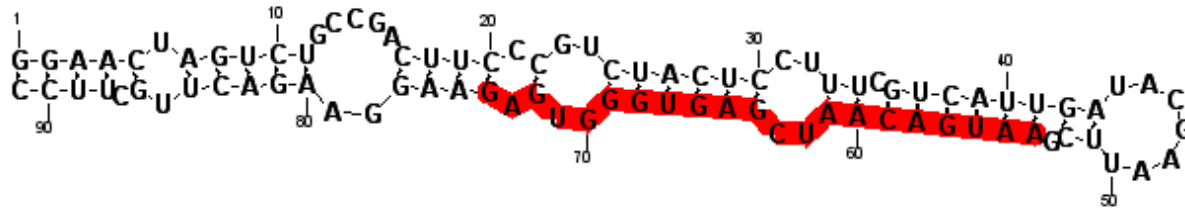
++++NM_008140
++++NM_001108780
++++NM_204691
-----NM_001086814
++++NM_144499

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.008	no	no	0.48/0.50	20/21/1.00	0.0	0.0	11	0	1	0	17	3	3arm	2	nd	0.14	2	12	1	na	na

Families

Member of family novel5 (seed AUGACAA): block4989 novel, block11618 novel, block13895 novel

[illegible]

ppacificus	chromosome:chrUn:118297111:118297201:1	Opposite_strand Intronic_coding NM_080760 DACH1 ## Opposite_strand Intronic_non-coding NM_018823 Nfat5
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		## Same_strand Intronic_non-coding NM_214682 pscd1 ## Same_strand Intronic_coding NM_001062082 Os05g0413400 ## {Repeats: no}
cbriggsae	chromosome:chrIV:14996380:14996510:1	Same_strand Intronic_coding NM_080629 ## Opposite_strand Intronic_coding NM_067727
celegans	chromosome:chrII:6170019:6170149:1	intergenic
cbrenneri	chromosome:chrUn:90188826:90188956:-1	Same_strand Intronic_coding NM_001123230 ## Opposite_strand Intronic_coding NM_009930 ## Opposite_strand Exonic_coding NM_001089437 ## Opposite_strand Boundary_coding NM_207068

sblock241 [novel_cloningOK_multiarm_DicerOK_randfoldOK]

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.43/0.48	21/23/1.00	0.0 0.0	0.0 0.0	1 18	0 0	1 1	0 0	21 17	2 3	5arm 3arm	10 10	nd nd	0.26 0.23	3 2	21	1	1	1

Clusters

Located in cluster 21: [sblock239_novel](#), [sblock240_novel](#), [sblock241_novel](#), [sblock242_novel](#), [sblock243_novel](#)

Families

Member of family [novel2](#) (seed UCGCAAG): [sblock239_novel](#), [sblock240_novel](#), [sblock241_novel](#), [sblock242_novel](#), [sblock243_novel](#), [sblock5_novel](#), [sblock6_novel](#), [sblock9_novel](#), [sblock7_cand](#)



		reads	miRBase family seed
seed	-----UCGCAAG-----	19	novel
seed	-----CGCAAGG-----	1	novel
seed	-----UCUUCAG-----	1	novel
		len	cloning frequências
			PS312
	-----TTCGCAAGGATTCCTCAAGATC-----	22	18
	-----ATCTTCAGGATCCCTGTCTGAAC-----	23	1
	-----TCGCAAGGATTCCTCAAGATC-----	21	1
	-----TTCGCAAGGATTCCTCAAGATC-----	21	1
ppacificus	GCTCTATTTCGATATTGCCTTGATCTTCAGGATCCCTGTCTGAACACAGAAATTGAGTGTTCGCAAGGATTCCTCAAGATCAGGGCTTCGAGTCAGCT		
cremanei	--TTTTTT-----GC-CCACTCACTGAACAGTTAC-----CAACTCTTATGCGTTCGCAAGTGGGTCCCGAGAGAATAGATAT-----GT-		
cjaponica	GGCCTATC-----GCGCAACCTATTATAGGCCTATC---GCGCAAACCTGTGGGATC-----GGTCGCAAGGAAGCGTCATT-----GCC		
	* * * * *		

Hairpin parameters

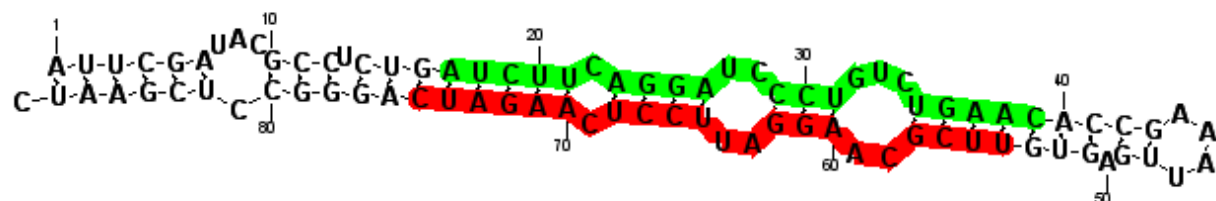
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.43/0.48	21/23/1.00	0.0 0.0	0.0 0.0	1 18	0 0	1 1	0 0	16 13	4 6	5arm 3arm	10 10	nd nd	0.26 0.23	3 2	21	1	1	1

Clusters

Located in cluster 2: sblock5_novel, sblock6_novel, sblock7_cand, sblock8_novel, sblock9_novel

Families

Member of family [novel2](#) (seed UGCAAG): [sblock239_novel](#), [sblock240_novel](#), [sblock241_novel](#), [sblock242_novel](#), [sblock243_novel](#), [sblock5_novel](#), [sblock6_novel](#), [sblock9_novel](#), [sblock7_cand](#)

[illegible]

ppacificus	chromosome:chrUn:8759292:8759379:-1	Opposite_strand Intronic_coding NM_141281 PEK ## {SimpF: trf}
cremanei	chromosome:chrUn:88568187:88568258:-1	Opposite_strand Intronic_coding NM_001029143 ## Same_strand Intronic_coding NM_074134
cjaponica	chromosome:chrUn:9659741:9659868:1	intergenic

Hairpin parameters

Clusters

ppacificus	chromosome:chrUn:2092943:2093034:1	Same_strand Intronic_non-coding NM_080105 cpo ## Same_strand Intronic_coding NM_169781 cpo ## Opposite_strand Intronic_non-coding NM_010570 Irs1 ## Opposite_strand Intronic_coding NM_184109 Rtl1 ## {Repeats: no}
cbrenneri	chromosome:chrUn:80873940:80874071:1	intergenic
cjaponica	chromosome:chrUn:7545536:7545667:1	Same_strand Intronic_coding NM_001021068

block9544 [novel_cloningOK_randfoldOK]

Hairpin parameters

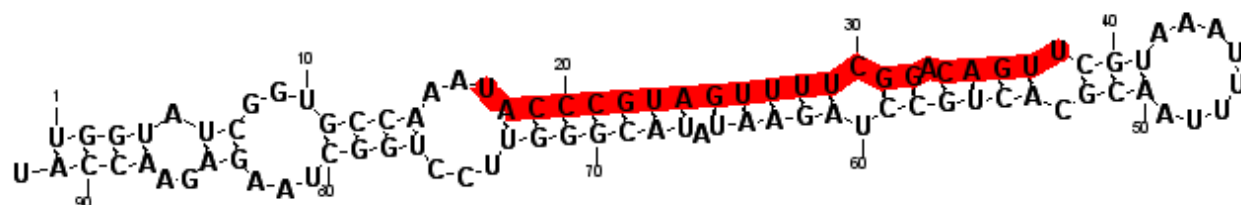
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.45/0.45	22/22/1.00	0.0	0.0	9	0	1	0	16	3	5arm	1	nd	0.14	1	9	1	na	na

Clusters

Located in cluster 17: block9537_cand, block9538_novel, block9539_novel, block9540_novel, sblock213_novel, block9543_cand, block9544_novel

Families

Member of family [miR-51/52/55](#) (seed ACCCGUA): [block7028_novel](#), [block7029_novel](#), [block9544_novel](#), [block15318_novel](#), [block15319_novel](#), [sblock162_novel](#), [sblock213_novel](#), [sblock279_novel](#), [sblock280_novel](#), [block9543_cand](#)

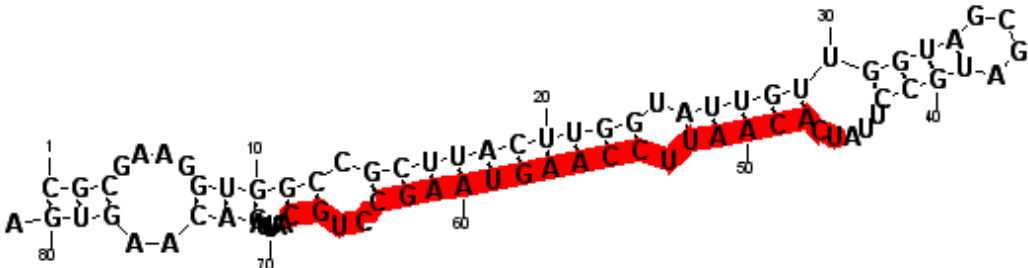
[illegible]

ppacificus	chromosome:chrUn:49877409:49877500:1	Same_strand Intronic_coding NM_008140 Gnat1 ## Opposite_strand Intronic_non-coding NM_001086814 pl10 ## {Repeats: no}
cjaponica	chromosome:chrUn:24364588:24364719:-1	Opposite strand Intronic coding NM_065165

block1073 [novel cloningOK randfoldOK]

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.006	no	no	0.43/0.45	21/22/1.00	0.0	0.0	15	0	1	0	14	7	3arm	1	nd	0.23	2	17	1	na	na

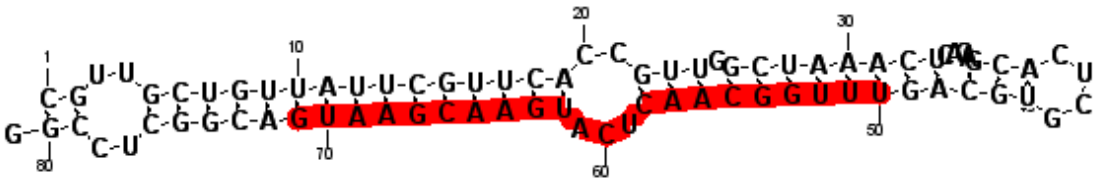
[illegible]

ppacificus	chromosome:chrUn:35607547:35607627:-1	Opposite_strand Intronic_coding NM_001055806 Os03g0197300 ## Same_strand Intronic_coding NM_001452 FOX2 ## {Repeats: no}
cremanei	chromosome:chrUn:56429588:56429708:1	Opposite_strand Boundary_non-coding NM_113200 ## Opposite_strand Boundary_coding NM_068785 ## Opposite_strand Intronic_coding NM_003530 ## Same_strand Intronic_coding NM_001111216
celegans	chromosome:chrV:11270653:11270717:-1	intergenic
cbrenneri	chromosome:chrUn:125558030:125558150:-1	Same_strand Intronic_coding NM_001083196

block6369 [novel_cloningOK_randfoldOK]

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.41/0.41	22/22/1.00	0.0	0.0	7	0	1	0	10	5	3arm	1	nd	0.14	3	7	1	na	na



ppacificus	chromosome:chrUn:147878155:147878235:-1	Same_strand Intronic_non-coding NM_001088036 LOC397877 ## {Repeats: no}
cremanei	chromosome:chrUn:141697968:141698088:-1	intergenic
cjaponica	chromosome:chrUn:146071586:146071706:1	intergenic ## {SimpF: trf}

block9538 [novel_cloningOK randfoldOK]

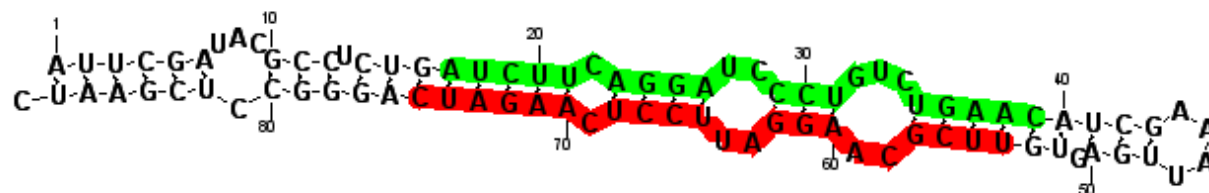
Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.004	no	no	0.52/0.52	21/21/1.00	0.0	0.0	5	0	1	0	16	4	5arm	1	nd	0.24	3	5	1	na	na

Clusters

Located in cluster 17: block9537 cand, block9538 novel, block9539 novel, block9540 novel, sblock213 novel, block9543 cand, block9544 novel

Member of family [novel2](#) (seed UCGCAAG): [sblock239_novel](#), [sblock240_novel](#), [sblock241_novel](#), [sblock242_novel](#), [sblock243_novel](#), [sblock5_novel](#), [sblock6_novel](#), [sblock9_novel](#), [sblock7_cand](#)

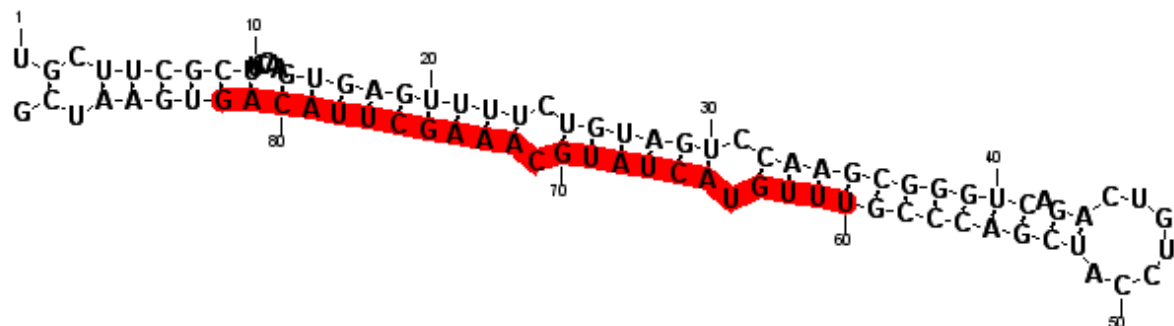
[illegible]

ppacificus	chromosome:chrUn:8759423:8759510:-1	Opposite_strand Intronic_coding NM_141281 PEK ## {SimpF: trf}
cremanei	chromosome:chrUn:88568187:88568258:-1	Opposite_strand Intronic_coding NM_001029143 ## Same_strand Intronic_coding NM_074134
cjaponica	chromosome:chrUn:9659741:9659868:1	intergenic

block2936 [novel_cloningOK_randfoldOK]

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.32/0.35	19/23/0.80	0.0	0.0	4	0	1	0	7	8	3arm	1	nd	0.09	1	5	1	na	na

Member of family **miR-239a** (seed UUGUACU): [cbr-mir-239b](#), [cbr-mir-239b](#), [block2936_novel](#)



		reads	miRBase family
seed	-----UUGUACU-----	4	miR-239a
seed	-----UGUACUA-----	1	novel
		len	cloning frequencies
			PS312
	-----TTTGACTATGCAAAGCTTACAG-----	23	4
	-----TTTGACTATGCAAAGCTTA-----	19	1
ppacificus	tgcttcgcttccaagtgagttttctgtagtccaagcgggtcagactgtccatcgacccgTTTGACTATGCAAAGCTTACAGtgaatcg *****		
	+++++	NM_031809	
	+++++	NM_001047948	
	+++++	NM_001079959	
	+++++	NM_206444	
	+++++	NM_206445	
	+++++	NM_206446	
	+++++	NM_206447	
	+++++	NM_206448	
	+++++	NM_206449	
	+++++	NM_206450	
	+++++	NM_206451	
	+++++	NM_206452	
	+++++	NM_206453	
	+++++	NM_206454	
	-----	NM_006235	
	+++++	NM_001085066	
	+++++	NM_199016	
	-----	NM_009517	
ppacificus	...(((((((.....(((((((((((((((((.....))))))))))))))))))))))....	1.000 -35.30	

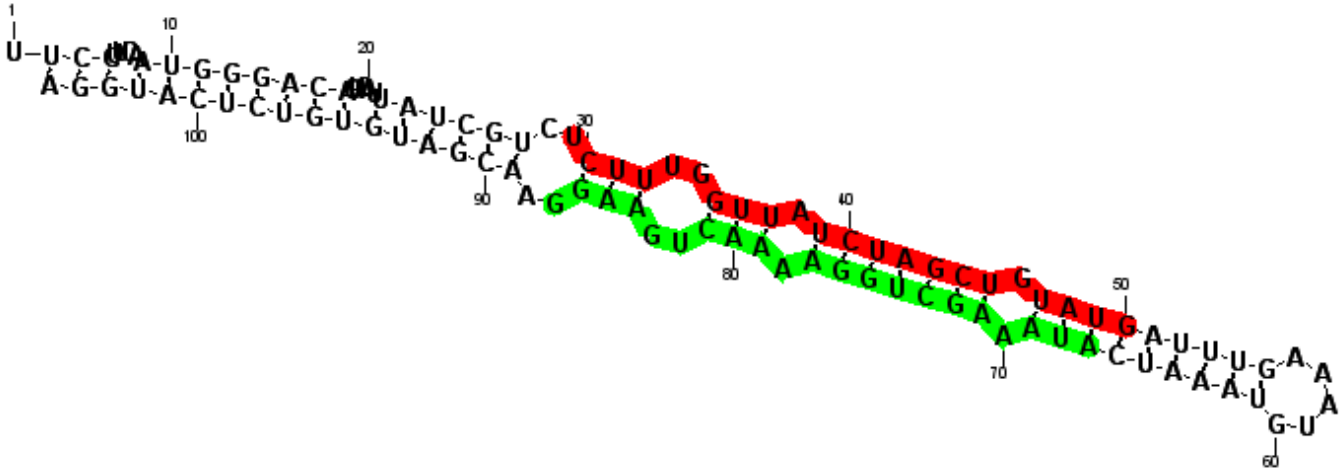
ppacificus	chromosome:chrUn:77810466:77810554:-1	Same_strand Intronic_coding NM_031809 Cngb1 ## Same_strand Intronic_non-coding NM_001079959 nrxn1b ## Opposite_strand Intronic_non-coding NM_006235 POU2AF1 ## {Repeats: no}
------------	---------------------------------------	---

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.33/0.40	19/24/0.98	0.0 0.4	0.0 0.0	90 5	0 0	1 1	0 0	28 18	5 6	5arm 3arm	1 1	nd nd	0.18 0.29	2 2	102	1	1	0

Families

Member of family [miR-75/79](#) (seed UAAAGCU): [cel-mir-79](#), [sblock75_novel](#), [block675_cand](#), [block15135_cand](#)



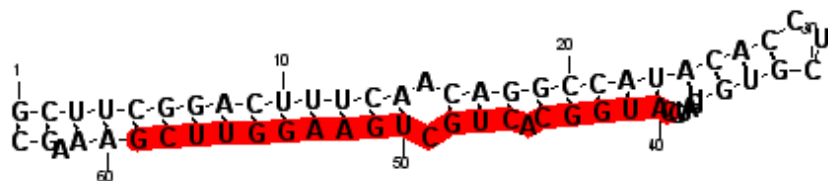
		reads
seed	-----CUUUGGU-----	95
seed	-----UAAAGCU-----	3
seed	-----AAAGCUG-----	2
seed	-----UGGUUAU-----	1
seed	-----GGUUAUC-----	1
		len
	-----TCTTTGGTTATCT-----AGCTGTATG-----	22
	-----TCTTTGGTTATCT-----AGCTGTAT-----	21
	-----ATAAAGCTGGAAAAGTGAAGG-----	21
	-----TAAAGCTGGAAAAGTGAAGG-----	20
	-----TCTTTGGTTATCT-----AGCTGTATGAT-----	24
	-----TTGGTTATCT-----AGCTGTATG-----	19
	-----TGGTTATCT-----AGCTGTATGA-----	19
ppacificus	TTCTTCAATGGGACAGTCATTATCGTC---TCTTTGGTTATCT-----AGCTGTATGATTTGAAATGTAAATCATAAAGCTGGAAAAGTGAAGGAACGA----TGTGTCTCATGGA	1,000
cremanei	-----TCTTTGGT-----G-----AATATTGTTATCTGAAAACGAAATCGTTTCGGAACAGA---ATAGAACGA---AACGA-----	-44.80
cbriggsae	-----GAGTTGGAGGATCATTCTCGCTGTCTTGGTCTCTGCTGTGGATGTACAGCAATGTTGTCTGTTTCGAGCATGGCAGACACGAAGATTCCGTGGAGGATCCTGATGACTC-----	0.992
celegans	-----TCTTTGGTTTTTC-----CAATCTTTCTCGTAGTATAGACTATTGAAAAGAAAAA-----GA-----GGAAGCTGAAGG-----	-15.40
cjaponica	-----TCTTTGGT-----TATCAGGCGGAATGAAAGATTTT-----GAAAGATTGATACCGCCA-----GGTAAGTTTTTG-----	

	* *	
	*	
ppacificus	.(((....((((((((.....((((((. .(((..(((.(	
cremanei	(((((.(	

ppacificus	chromosome:chrUn:79981546:79981650:-1	{Repeats: no}
cremanei	chromosome:chrUn:12087335:12087479:-1	Same_strand Intronic_coding NM_001071615
cbriggsae	chromosome:chrUn:4246294:4246407:-1	intergenic
celegans	chromosome:chrIV:10150717:10150861:-1	intergenic
cjaponica	chromosome:chrUn:28857221:28857365:1	intergenic

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.57/0.57	21/21/1.00	0.0	0.0	8	0	1	0	5	8	3arm	1	nd	0.10	1	8	1	na	na

Member of family **miR-228** (seed AUGGCAC): [block373 novel](#), [block2819 novel](#), [block10249 novel](#), [block374 cand](#), [block8794 cand](#), [block10251 cand](#)

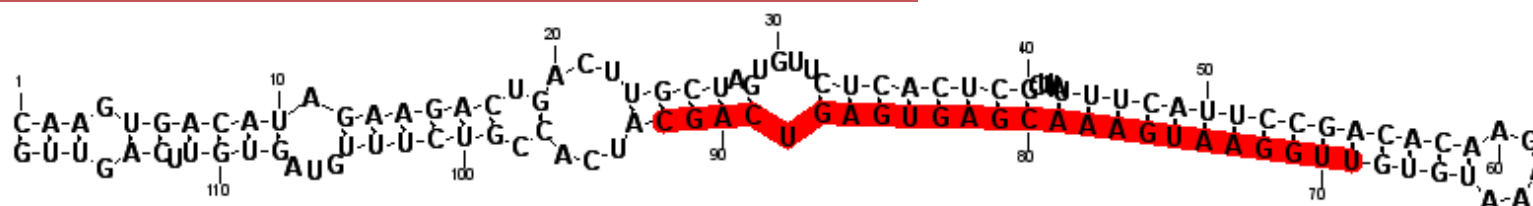


ppacificus|chromosome:chrUn:74608390:74608453:-1|Same_strand|Intronic_coding|NM_001069093|Os09g0103700 ## {Repeats: no}

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.43/0.48	20/24/1.00	0.6	0.8	10	0	1	0	26	4	3arm	2	nd	0.08	2	12	1	na	na

Located in cluster 23: block10919_novel, block10920_novel, block10921_cand

Member of family novel12 (seed UGGAAUG): block10919_novel, block10920_novel



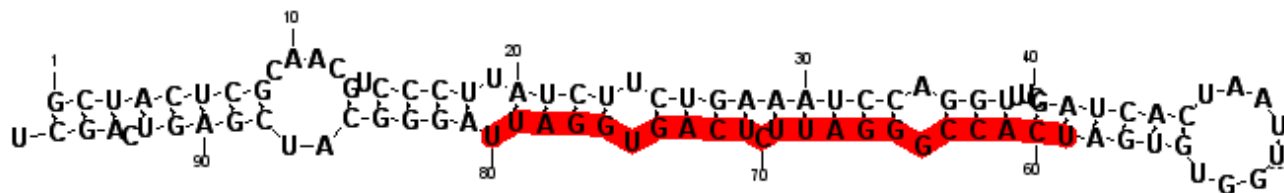
ppacificus	chromosome:chrUn:75760177:75760294:1	{Repeats: no}
cjaponica	chromosome:chrUn:71593210:71593310:-1	Opposite_strand Intronic_coding NM_136816

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miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.50/0.50	18/22/0.92	0.0	0.0	12	0	1	0	17	4	3arm	2	nd	0.23	2	13	1	na	na

Located in cluster **13**: [block6539_novel](#), [block6540_novel](#), [block6541_novel](#), [block6542_novel](#)

Member of family [miR-35/36/38/39/40/41](#) (seed CACCGGG): [cbr-mir-39](#), [block4438_novel](#), [block4440_novel](#), [block4442_novel](#), [block4444_novel](#), [block4446_novel](#), [block4449_novel](#), [block4451_novel](#), [block4453_novel](#), [block6540_novel](#), [block6541_novel](#), [block13918_novel](#), [block16473_novel](#), [block19_cand](#)

[illegible]

ppacificus	chromosome:chrUn:158037196:158037292:-1	{SimpF: trf}
cbriggsae	chromosome:chrX:15335080:15335181:1	intergenic
cbrenneri	chromosome:chrUn:114149095:114149231:1	intergenic

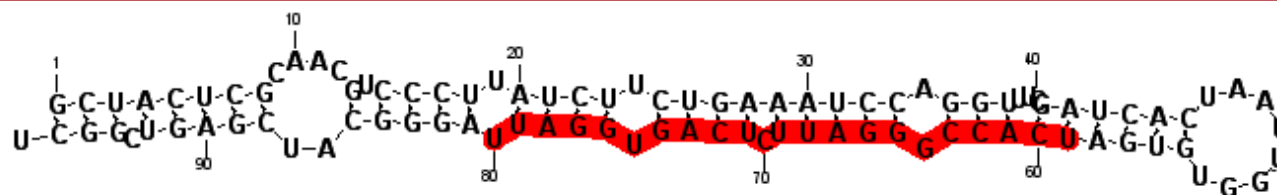
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Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.50/0.50	18/22/0.92	0.0	0.0	12	0	1	0	17	4	3arm	2	nd	0.23	2	13	1	na	na

Located in cluster 13: [block6539](#) novel, [block6540](#) novel, [block6541](#) novel, [block6542](#) novel

Member of family **miR-35/36/38/39/40/41** (seed CACCGGG): [cbr-mir-39](#), [block4438_novel](#), [block4440_novel](#), [block4442_novel](#), [block4444_novel](#), [block4446_novel](#), [block4449_novel](#), [block4451_novel](#), [block4453_novel](#), [block6540_novel](#), [block6541_novel](#), [block13918_novel](#), [block16473_novel](#), [block19_cand](#)

[illegible]

ppacificus	chromosome:chrUn:158037323:158037419:-1	{SimpF: trf}
cbriggsae	chromosome:chrX:15335080:15335181:1	intergenic
cbrenneri	chromosome:chrUn:114149095:114149231:1	intergenic

block5657 [novel_cloningOK_randfoldOK]

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.38/0.41	21/22/1.00	0.0	0.0	14	0	1	0	11	4	3arm	1	nd	0.18	2	15	1	na	na

Hairpin parameters

Families

ppacificus gcgagacgagagcgagcgtgcctaggtctttcccccgtgcgattcagaagacacgaaTGGCAGTGTAGAAATATCTTactaaaatcgggcgaanaagcgtgggcgtcagtttgca

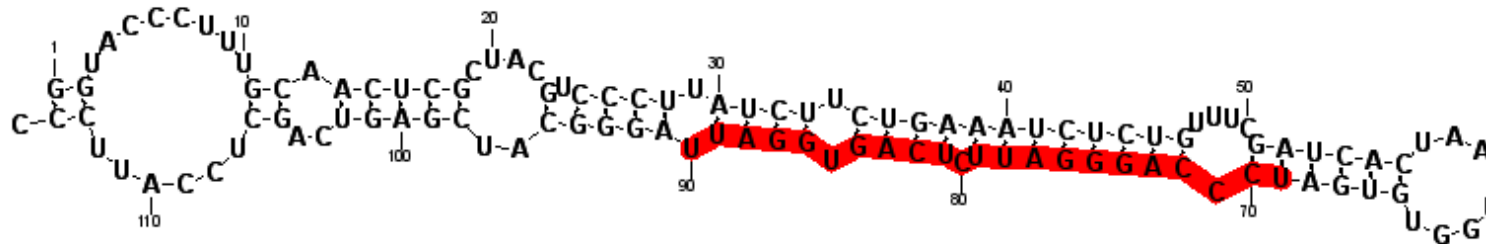
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block6542 [novel_cloningOK_randfoldOK]

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.002	no	no	0.50/0.50	22/22/1.00	0.0	0.0	22	0	1	0	25	4	3arm	1	nd	0.23	2	22	1	na	na

Located in cluster **13**: [block6539 novel](#), [block6540 novel](#), [block6541 novel](#), [block6542 novel](#)

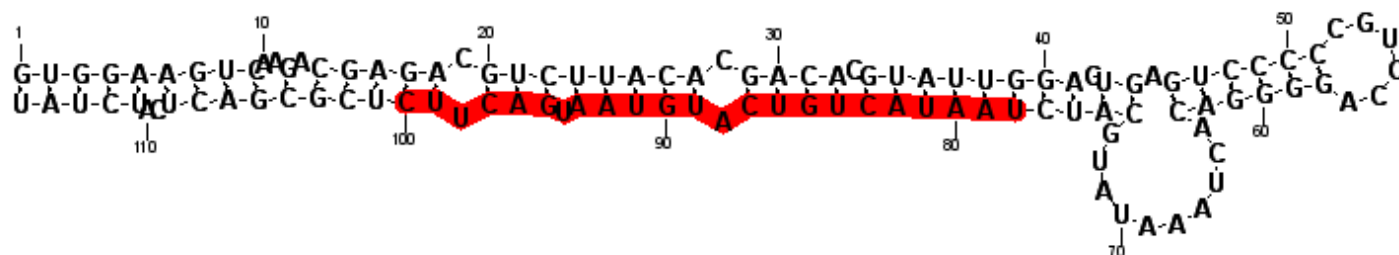
Member of family **novel8** (seed CCCAGGG): [block6539 novel](#), [block6542 novel](#)



ppacificus	chromosome:chrUn:158037442:158037556:-1	{SimpF: trf}
cbrenneri	chromosome:chrUn:14975122:14975276:-1	Opposite_strand Intronic_coding NM_059756

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miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.30/0.30	23/23/1.00	0.0	0.0	26	0	1	0	15	20	3arm	1	nd	0.13	1	26	1	na	na



		reads	miRBase family se
seed	-----AAUACUG-----	26	miR-236
		len	cloning frequenci
			PS312
	-----TAATACTGTCATGTAATGACTTC-----	23	26

ppacificus gtggaagtcaagacgagacgtcttacacgacacgtattggagtgagtcctccggtccaggggacactaaatatgcateTAATACTGTCATGTAATGACTTctcgcgactcatctat

`ppacificus` ((((((((((....((((((((((((((((((((((((((((((((((((((((((((((((((((((((.....))))).....)))))))).))))).))))).))))..)))))) 0.880
-43.50

ppacificus|chromosome:chrUn:31908649:31908763:-1|{Repeats: no}

block9384 [novel_cloningOK_randfoldOK]

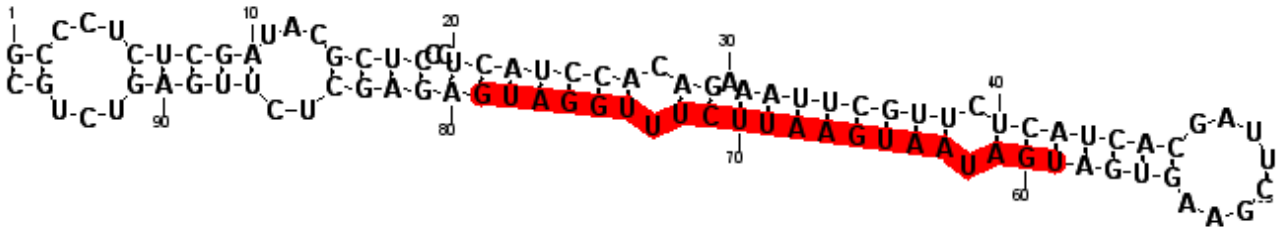
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.42/0.43	23/24/1.00	0.0	0.0	8	0	1	0	12	11	3arm	1	nd	0.26	2	9	1	na	na

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.29/0.29	21/21/1.00	0.0	0.0	9	0	1	0	17	4	3arm	1	nd	0.10	1	9	1	na	na

Clusters

Located in cluster 22: [block10683_novel](#), [block10684_cand](#), [block10685_cand](#)

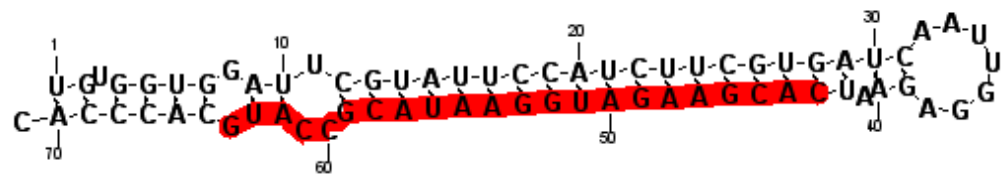
[illegible]

ppacificus	chromosome:chrUn:70959103:70959198:1	{Repeats: no}
cremanei	chromosome:chrUn:45154183:45154318:1	Opposite_strand Boundary_non-coding NM_070915 ## Opposite_strand Exonic_coding NM_074490
cbriggsae	chromosome:chrV:9044075:9044210:1	Opposite_strand Intronic_coding NM_001011629 ## Same_strand Intronic_coding NM_062593
celegans	chromosome:chrV:4762905:4763040:1	Same_strand Exonic_coding C18G1.3
cjaponica	chromosome:chrUn:14651215:14651350:1	intergenic

block13316 [novel_cloningHIGH_randfoldOK]

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.48/0.50	20/22/1.00	0.0	0.0	25	0	1	0	7	4	3arm	1	nd	0.14	2	33	1	na	na



		reads	miRBase family seed
seed	-----ACGAAGA-----	28	novel
seed	-----CGAAGA-----U-----	4	novel
seed	-----GAAGA-----UG-----	1	novel
		len	cloning frequencies
			PS312
	-----CACGAAGA-----TGGAATACGCCATG-----	22	25
	-----ACGAAGA-----TGGAATACGCCATG-----	21	4
	-----CACGAAGA-----TGGAATACGCCAT-----	21	2
	-----CGAAGA-----TGGAATACGCCATG-----	20	1
	-----CACGAAGA-----TGGAATACGCCA-----	20	1

ppacificus -----TGTGGTGGATTTCGTATTCCA-----TCTTCGTGATCAATTGGAGAATCACGAAGA-----TGGAATACGCCATGCACCCAC-----
cremanei -----ATGGTTACATGCTCCA-----TTTTACAGCTCGATAGAAGCA-AACGAAGA---TGGAATCCACCAG-----
cbriggsae -----TGAGCTCACATAC-----TCTTCGTAATTTTTAG---ATTACGAAGAG-AGATGATTTTCACAGA-----CAGTAT
celegans TTCTTAGATTTGGTGG---TGTATTCCACATTTCCGGTCTGCGTGATCACT---GTATCACGAAGA--CTTTGAAT-CGTCAT-CTCCGACTTCAAGAG
cbrenneri -----CTCGTTTTCTCTCT-----GTTGTTTCGATTTCATAATTGTGAAACGAAGAACAGAGGAAACCGC-----
cjaponica -----TAAGAAATTGTT-----TCTTTTTCGATTCATTTCAGATTGTCACGAAGAT-GCTTAATTTTCGTC-----

ppacificus	((.(((.(.((((((	((((((((	1,000
cremanei	.(((...((..(((	(((((...(((	-37.30
cbriggsae	(((((...((	(((((...(((	0,994
celegans	.(((...((..(((	(((((...(((	-13.00
cbrenneri	...((((((	(((((...(((	0,973
cjaponica	...((((((	(((((...(((	-18.60

ppacificus	chromosome:chrUn:111743640:111743710:1	{Repeats: no}
cremanei	chromosome:chrUn:21310585:21310695:-1	Same_strand Intronic_coding NM_180914 ## Opposite_strand Intronic_coding NM_001031159
cbriggsae	chromosome:chrV:5188622:5188682:-1	Same_strand Intronic_coding NM_062569
celegans	chromosome:chrX:4533911:4533999:-1	Opposite_strand Exonic_coding C07A12.3a
cbrenneri	chromosome:chrUn:50585408:50585518:-1	intergenic
cjaponica	chromosome:chrUn:69107145:69107255:-1	Opposite_strand Intronic_coding NM_171458

Hairpin parameters

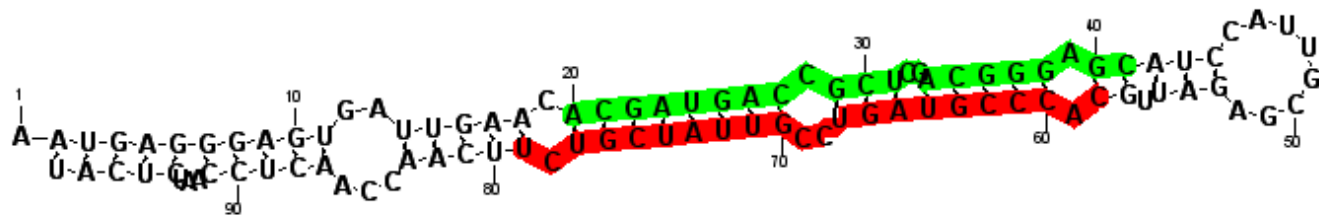
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.002	no	no	0.52/0.68	21/22/1.00	0.0 0.0	0.0 0.0	4 57	0 0	1 1	0 0	19 20	3 5	5arm 3arm	1 1	nd nd	0.18 0.18	2 2	63	1	1	2

Clusters

Located in cluster 24: sblock279 novel, sblock280 novel

Families

Member of family **miR-51/52/55** (seed ACCCGUA): [block7028_novel](#), [block7029_novel](#), [block9544_novel](#), [block15318_novel](#), [block15319_novel](#), [sblock162_novel](#), [sblock213_novel](#), [sblock279_novel](#), [sblock280_novel](#), [block9543_cand](#)



		reads	miRBase family
seed	-----ACCCGUA-----	57	miR-51/52/55
seed	-----CGAUGAC-----	4	novel
seed	-----CCCGUAG-----	2	novel
		len	cloning frequencies
			PS312
	-----CACCCGTAGTCCGTTATCGTCT-----	22	57
	-----ACGATGACCGCTCGACGGGAGC-----	22	4
	-----ACCCGTAGTCCGTTATCGTCT-----	21	2

ppacificus aatgaggggagtgtattgaacacgatgaccgcctcgacgggagcatccattgcgagattgCACCCGTAGTCCGTTATCGTCTtcaaccaactccaatctcat

ppacificus .(((((((.(.((((((((((((.(.((((((((((.)))))))).)))))).))))))..))))))...))))))...))))))0.⁹⁹⁰_{-37.80}

ppacificus	chromosome:chrUn:94125873:94125971:1	{Repeats: no}
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Hairpin parameters

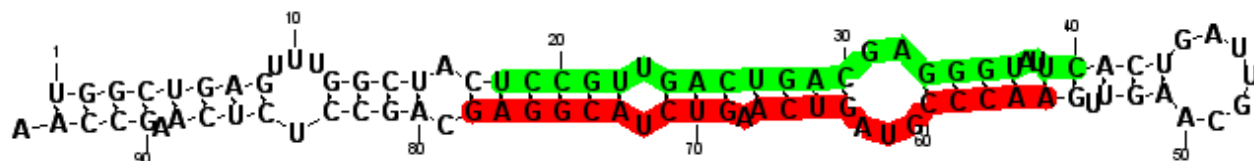
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.44/0.52	18/23/0.96	0.0 0.0	0.3 0.0	6 46	0 0	1 1	0 0	17 16	3 5	5arm 3arm	1 1	nd nd	0.22 0.26	2 3	57	1	1	1

Clusters

Located in cluster 24: sblock279 novel, sblock280 novel

Families

Member of family [miR-51/52/55](#) (seed ACCCGUA): [block7028_novel](#), [block7029_novel](#), [block9544_novel](#), [block15318_novel](#), [block15319_novel](#), [sblock162_novel](#), [sblock213_novel](#), [sblock279_novel](#), [sblock280_novel](#), [block9543_cand](#)



		reads	miRBase family seed
seed	-----ACCCGUA-----	50	miR-51/52/55
seed	-----CCGUUGA-----	6	novel
seed	-----CGUUGAC-----	1	novel
		len	cloning frequencies
			PS312
	-----AACCCGTAGTCAAGTCTACGGAG-----	23	46
	-----TCCGTTGACTGACGAGGGTATTC-----	23	4
	-----AACCCGTAGTCAAGTCTA-----	18	2
	-----AACCCGTAGTCAAGTCTACGG-----	21	2
	-----TCCGTTGACTGACGAGGGTATT-----	22	2
	-----CCGTTGACTGACGAGGGTATT-----	21	1

ppacificus tggctgagtttggctactcgttgactgacgagggtattcactgattgcaagttgAACCCGTAGTCAAGTCTACGGAGcagcctctcaagccaa

[illegible]

ppacificus	chromosome:chrUn:94125746:94125839:1	{Repeats: no}
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block5167 [novel cloningHIGH randfoldOK]

Hairpin parameters

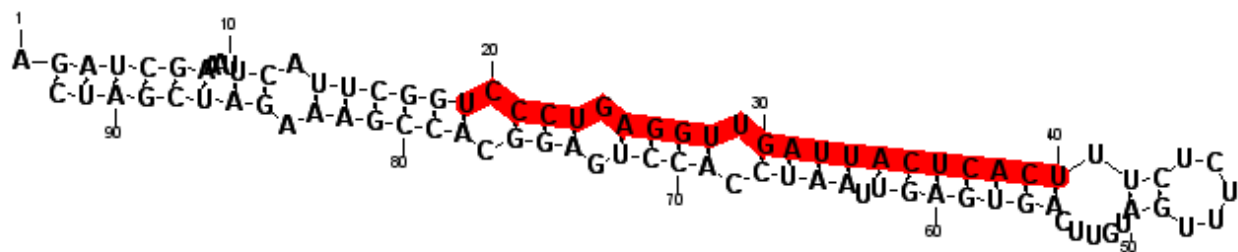
miRNA	randfold	RNA	rep	GC min/max	len min/max mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.45/0.45	22/22/1.00	0.0	0.0	27	0	1	0	18	3	5arm	1	nd	0.18	1	27	1	na	na

Clusters

Located in cluster 11: block5166 novel, block5167 novel

Families

Member of family **lin-4** (seed CCCUGAG): **cbr-lin-4**, **block5167 novel**, **block8798 cand**, **sblock281 cand**



		reads	miRBase family seed
seed	-----CCCUGAG-----	27	lin-4
		len	cloning frequencies
			PS312
ppacificus	-----TCCCTGAGGTTGATTACTCACT-----	22	27
agatcgaaattcattcggTCCCTGAGGTTGATTACTCACTttctottttgatgttcagtgagttaatccacctgaggcaccgaaagatcgatc			

ppacificus	.(((((((...((.((((((.(((.(((((((((((((((.((.....)).....)))))))))).)))))).))))))))) 1.000 -39.50		

ppacificus [chromosome:chrUn:124787015:124787106:-1](#) {Repeats: no}

block4438 [novel_cloningHIGH_randfoldOK]

Hairpin parameters

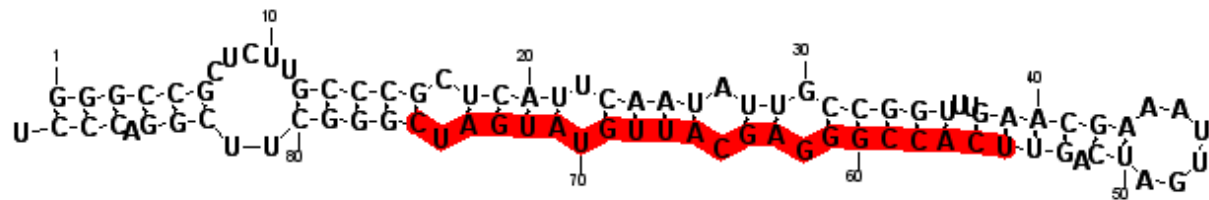
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.002	no	no	0.48/0.53	19/22/0.96	0.0	0.0	48	0	1	0	14	5	3arm	8	nd	0.18	1	52	1	na	na

Clusters

Located in cluster 9: [block4438_novel](#), [block4440_novel](#), [block4442_novel](#), [block4444_novel](#), [block4446_novel](#), [block4449_novel](#), [block4451_novel](#), [block4453_novel](#)

Families

Member of family [miR-35/36/38/39/40/41](#) (seed CACCGGG): [cbr-mir-39](#), [block4438_novel](#), [block4440_novel](#), [block4442_novel](#), [block4444_novel](#), [block4446_novel](#), [block4449_novel](#), [block4451_novel](#), [block4453_novel](#), [block6540_novel](#), [block6541_novel](#), [block13918_novel](#), [block16473_novel](#), [block19_cand](#)



		reads	miRBase family seed
seed	-----CACCGGG-----	52	miR-35/36/38/39/40/41
		len	cloning frequencies
			PS312

ppacificus	chromosome:chrUn:105940516:105940605:-1	{SimpF: trf}
cremanei	chromosome:chrUn:56134520:56134649:-1	intergenic

block4440 [novel_cloningHIGH_randfoldOK]

Hairpin parameters

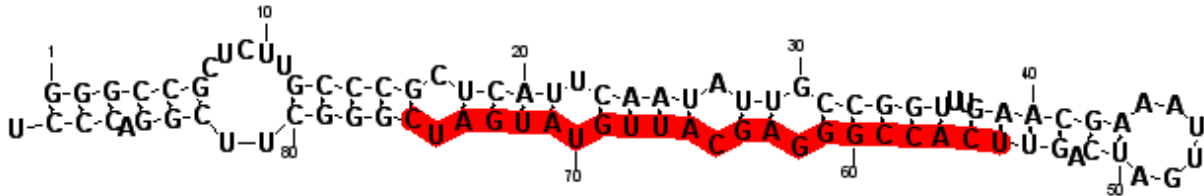
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.002	no	no	0.48/0.53	19/22/0.96	0.0	0.0	48	0	1	0	14	5	3arm	8	nd	0.18	1	52	1	na	na

Clusters

Located in cluster [9: block4438_novel](#), [block4440_novel](#), [block4442_novel](#), [block4444_novel](#), [block4446_novel](#), [block4449_novel](#), [block4451_novel](#), [block4453_novel](#)

Families

Member of family [miR-35/36/38/39/40/41](#) (seed CACCGGG): [cbr-mir-39](#), [block4438_novel](#), [block4440_novel](#), [block4442_novel](#), [block4444_novel](#), [block4446_novel](#), [block4449_novel](#), [block4451_novel](#), [block4453_novel](#), [block6540_novel](#), [block6541_novel](#), [block13918_novel](#), [block16473_novel](#), [block19_cand](#)



		reads	miRBase family seed
seed	-----CACCGGG-----	52	miR-35/36/38/39/40/41
		len	cloning frequencies
			PS312
	-----TCACCGGGAGCATTTGTATGATC-----	22	48
	-----TCACCGGGAGCATTTGTATG-----	19	2
	-----TCACCGGGAGCATTTGTATGAT-----	21	2
ppacificus	GGGCCGCTCTTGCCCGCTCAATTCAATATTGCCGGT TTGAACGAAATTGATC-AGTTCACCGGGAGCATTTGTATGATCGGGCTTCGGACCCT		
cremanei	-----GCTCG--ACGTCA TACTCTCGT GTTGATCCACATTAATCTGGTT CACCGGGAGCATT-----TTGGAGGT----- ** ** * *** * ***** * ***** * * ** *		
ppacificus	(((((.....(((((((((.(((((. (((((.((((((.. ((((((.....)) .)))))))...)))))).))).)).).)).).)).).	1.000	-39.20
cremanei	..((. .(((.((((((.(((.(((.(.....)))))))))))).)) ..))).)	0.983	-15.00

ppacificus chromosome:chrUn:105940740:105940829:-1 {SimpF: trf}

Hairpin parameters

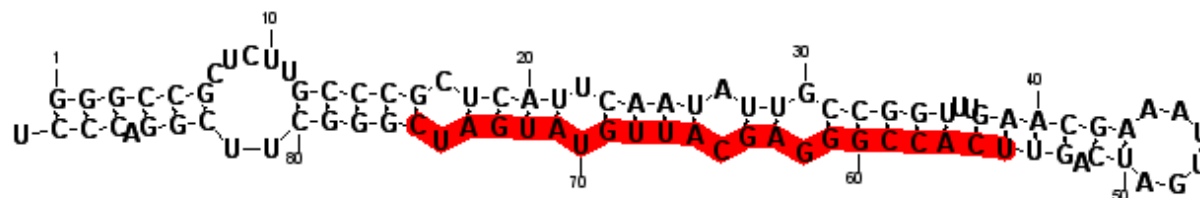
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.002	no	no	0.48/0.53	19/22/0.96	0.0	0.0	48	0	1	0	14	5	3arm	8	nd	0.18	1	52	1	na	na

Clusters

Located in cluster 9: [block4438](#) novel, [block4440](#) novel, [block4442](#) novel, [block4444](#) novel, [block4446](#) novel, [block4449](#) novel, [block4451](#) novel, [block4453](#) novel

Families

Member of family [miR-35/36/38/39/40/41](#) (seed CACCGGG): [cbr-mir-39](#), [block4438_novel](#), [block4440_novel](#), [block4442_novel](#), [block4444_novel](#), [block4446_novel](#), [block4449_novel](#), [block4451_novel](#), [block4453_novel](#), [block6540_novel](#), [block6541_novel](#), [block13918_novel](#), [block16473_novel](#), [block19_cand](#)



		reads	miRBase family seed
seed	-----CACCGGG-----	52	miR-35/36/38/39/40/41
		len	cloning frequencies
			PS312
	-----TCACCGGGAGCATTGTATGATC-----	22	48
	-----TCACCGGGAGCATTGTATG-----	19	2
	-----TCACCGGGAGCATTGTATGAT-----	21	2

ppacificus	chromosome:chrUn:105941188:105941277:-1	{SimpF: trf}
cremanei	chromosome:chrUn:56134520:56134649:-1	intergenic

block4446 [novel cloningHIGH randfoldOK]

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.002	no	no	0.48/0.53	19/22/0.96	0.0	0.0	48	0	1	0	14	5	3arm	8	nd	0.18	1	52	1	na	na

Clusters

Located in cluster 9: [block4438](#) novel, [block4440](#) novel, [block4442](#) novel, [block4444](#) novel, [block4446](#) novel, [block4449](#) novel, [block4451](#) novel, [block4453](#) novel

Families

Member of family [miR-35/36/38/39/40/41](#) (seed CACGGG): [cbr-mir-39](#), [block4438 novel](#), [block4440 novel](#), [block4442 novel](#), [block4444 novel](#), [block4446 novel](#), [block4449 novel](#), [block4451 novel](#), [block4453 novel](#), [block6540 novel](#), [block6541 novel](#), [block13918 novel](#), [block16473 novel](#), [block19 cand](#)

		reads	miRBase family seed
seed	-----CACCGGG-----	52	miR-35/36/38/39/40/41
		len	cloning frequencies
			PS312
	-----TCACCGGAGCATTGTATGATC-----	22	48
	-----TCACCGGAGCATTGTATG-----	19	2
	-----TCACCGGAGCATTGTATGAT-----	21	2
ppacificus	GGGCCGCTCTTGCCCGCTCATTTCAATATTGCCGGT TTGAACGAAATTGATC-AGTTCACCGGAGCATTGTATGATCGGGCTTCAGACCCT		
cremanei	-----GCTCG---ACGTCACTACTCTCGTTGATCCACATTAATCTGGTTCACCGGAGCATT-----TTGGAGGT----- ** ** *** * ***** * **** * ***** * ** *		
ppacificus	((...(((.(.((.(.(((.(.((((.(.((((.(.....)).))))).)))..)))).))).1.000 -35.40		
cremanei	..((. .(((.(.(((.(.(((.(.((((.(.((((.(.....)).))))).)))..)))).).)..).0.983 -15.00		

ppacificus	chromosome:chrUn:105941412:105941501:-1	{SimpF: trf}
cremanei	chromosome:chrUn:56134520:56134649:-1	intergenic

block4449 [novel_cloningHIGH_randfoldOK]

Hairpin parameters

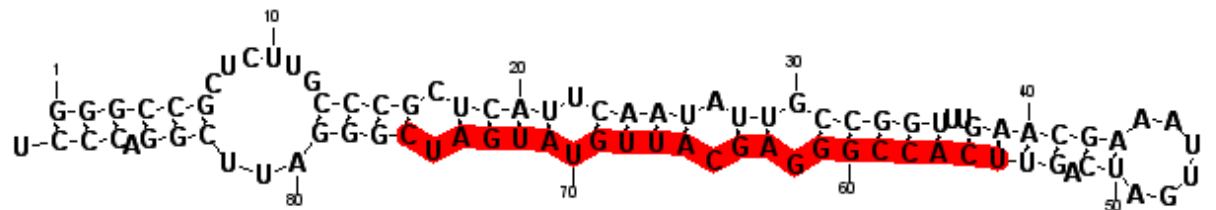
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.003	no	no	0.48/0.53	19/22/0.96	0.0	0.0	48	0	1	0	14	5	3arm	8	nd	0.18	1	52	1	na	na

Clusters

Located in cluster 9: [block4438](#) novel, [block4440](#) novel, [block4442](#) novel, [block4444](#) novel, [block4446](#) novel, [block4449](#) novel, [block4451](#) novel, [block4453](#) novel

Families

Member of family [miR-35/36/38/39/40/41](#) (seed CACCGGG): [cbr-mir-39](#), [block4438](#) novel, [block4440](#) novel, [block4442](#) novel, [block4444](#) novel, [block4446](#) novel, [block4449](#) novel, [block4451](#) novel, [block4453](#) novel, [block6540](#) novel, [block6541](#) novel, [block13918](#) novel, [block16473](#) novel, [block19](#) cand



		reads	miRBase family seed
seed	-----CACCGGG-----	52	miR-35/36/38/39/40/41
		len	cloning frequencies
			PS312
	-----TCACCGGGAGCATTGTATGATC-----	22	48
	-----TCACCGGGAGCATTGTATG-----	19	2
	-----TCACCGGGAGCATTGTATGAT-----	21	2
ppacificus	GGGCCGCTCTTGCCCGCTCATTCAATATTGCCGGTTTGAACGAAATTGATC-AGTTCACCGGGAGCATTGTATGATCGGGATTTCGGACCTT		
cremanei	-----GCTCG---ACGTCATACTCTCGTGTGATCCACATTAATCTGGTTCACCGGGAGCATT-----TTGGAGGT-----		
	** ** * *** * * ***** * * ***** * ** *		
ppacificus	(((((.....(((.((((.((((.((((.(.....) .))))))))..)))))..)))).	1.000	-36.00
cremanei	..((. ..((.((((.((((.(.....) .))))))))..)))).	0.983	-15.00

ppacificus	chromosome:chrUn:105941937:105942026:-1	{SimpF: trf}
cremanei	chromosome:chrUn:56134520:56134649:-1	intergenic

block4451 [novel_cloningHIGH_randfoldOK]

Hairpin parameters

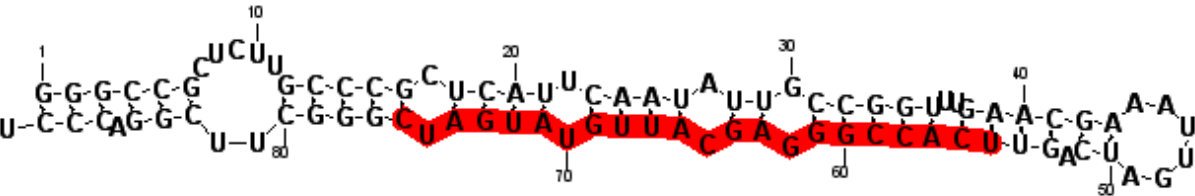
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.002	no	no	0.48/0.53	19/22/0.96	0.0	0.0	48	0	1	0	14	5	3arm	8	nd	0.18	1	52	1	na	na

Clusters

Located in cluster 9: [block4438_novel](#), [block4440_novel](#), [block4442_novel](#), [block4444_novel](#), [block4446_novel](#), [block4449_novel](#), [block4451_novel](#), [block4453_novel](#)

Families

Member of family [miR-35/36/38/39/40/41](#) (seed CACCGGG): [cbr-mir-39](#), [block4438_novel](#), [block4440_novel](#), [block4442_novel](#), [block4444_novel](#), [block4446_novel](#), [block4449_novel](#), [block4451_novel](#), [block4453_novel](#), [block6540_novel](#), [block6541_novel](#), [block13918_novel](#), [block16473_novel](#), [block19_cand](#)



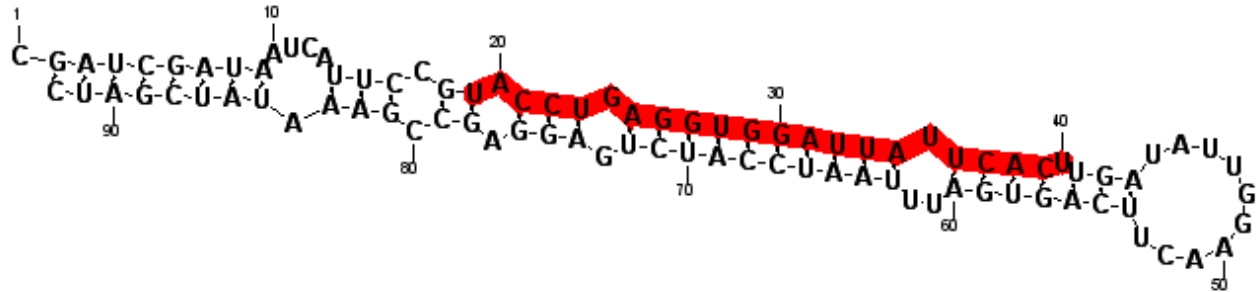
		reads	miRBase family seed
seed	-----CACCGGG-----	52	miR-35/36/38/39/40/41
		len	cloning frequencies
			PS312
	-----TCACCGGGAGCATTGTATGATC-----	22	48
	-----TCACCGGGAGCATTGTATG-----	19	2
	-----TCACCGGGAGCATTGTATGAT-----	21	2
ppacificus	GGGCCGCTCTTGCCCGCTCATTCAATATTGCCGGTTTGAACGAAATTGATC-AGTTCACCGGGAGCATTGTATGATCGGGCTTCGGACCTT		
cremanei	-----GCTCG---ACGTCATACTCTCGTGTGATCCACATTAATCTGGTTCACCGGGAGCATT-----TTGGAGGT-----		
	** ** * *** * * ***** * * ***** * ** *		
ppacificus	(((((.....(((.((((.((((.((((.(.....) .))))))))..)))))..)))).	1.000	-39.20

ppacificus	chromosome:chrUn:105942162:105942251:-1	{SimpF: trf}
cremanei	chromosome:chrUn:56134520:56134649:-1	intergenic

Hairpin parameters

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.39/0.41	22/23/1.00	0.0	0.0	6	0	1	0	18	3	5arm	1	nd	0.18	1	7	1	na	na

Located in cluster 11: block5166 novel, block5167 novel

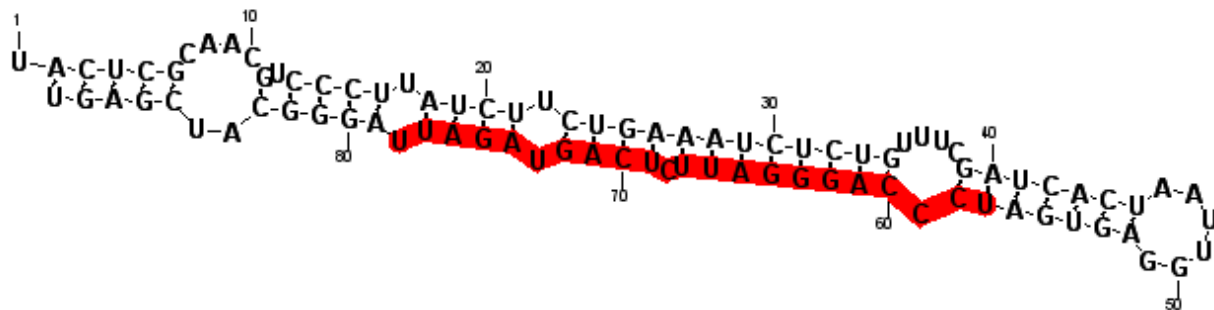


ppacificus	chromosome:chrUn:124786846:124786937:-1	{Repeats: no}
celegans	chromosome:chrX:16412008:16412139:-1	Same_strand Intronic_coding T24D11.1

miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.45/0.45	22/22/1.00	0.0	0.0	15	0	1	0	12	5	3arm	1	nd	0.18	1	15	1	na	na

Located in cluster 13: block6539_novel, block6540_novel, block6541_novel, block6542_novel

Member of family [novel8](#) (seed CCCAGGG): [block6539](#) [novel](#), [block6542](#) [novel](#)



ppacificus	chromosome:chrUn:158037074:158037163:-1	{SimpF: trf}
cremanei	chromosome:chrUn:145214541:145214670:-1	Same_strand Boundary_coding NM_059406 ## Same_strand Intronic_coding NM_007741
cjaponica	chromosome:chrUn:88309678:88309807:-1	Opposite_strand Intronic_coding NM_068771

Hairpin parameters

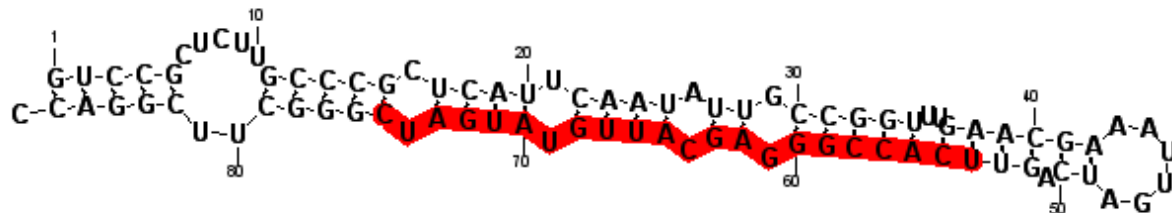
miRNA	randfold	RNA	rep	GC min/max	len min/max /mir_range	5'var	3'var	reads	reads edited	libs	libs edited	base distance	loop distance	position	locations	exon distance	unpaired	max bulge	total reads	total libs	dicer	drosha
no	0.001	no	no	0.48/0.53	19/22/0.96	0.0	0.0	48	0	1	0	12	5	3arm	8	nd	0.18	1	52	1	na	na

Clusters

Located in cluster 9: block4438_novel, block4440_novel, block4442_novel, block4444_novel, block4446_novel, block4449_novel, block4451_novel, block4453_novel

Families

Member of family [miR-35/36/38/39/40/41](#) (seed CACCGGG): [cbr-mir-39](#), [block4438_novel](#), [block4440_novel](#), [block4442_novel](#), [block4444_novel](#), [block4446_novel](#), [block4449_novel](#), [block4451_novel](#), [block4453_novel](#), [block6540_novel](#), [block6541_novel](#), [block13918_novel](#), [block16473_novel](#), [block19](#) and



ppacificus	chromosome:chrUn:105942388:105942474:-1	{SimpF: trf}
cremanei	chromosome:chrUn:56134522:56134648:-1	intergenic