miRDeep2

Parameters used

miRDeep2 version	2.0.1.3
Program call	/home/users/allstaff/balan.b/.conda/envs/miRNA_New/bin/miRDeep2.pl ./LCS8251_AT_Control_RawData_trim_collapsed.fa ./GiardiaDB-54_GintestinalisAssemblageAWB_Genome_Thibult_nowhitespace.fasta ./Control_vs_genome.arf Mature.fa none Hairpin.fa
Reads	./LCS8251_AT_Control_RawData_trim_collapsed.fa
Genome	./GiardiaDB-54_GintestinalisAssemblageAWB_Genome_Thibult_nowhitespace.fasta
Mappings	./Control_vs_genome.arf
Reference mature miRNAs	Mature.fa
Other mature miRNAs	none

Survey of miRDeep2 performance for score cut-offs -10 to 10

	novel miRNAs			known miRBase miRNAs				
miRDeep2 score	predicted by miRDeep2	estimated false positives	estimated true positives	in species	in data	detected by miRDeep2	estimated signal-to-noise	excision gearing
10	3	1 ± 1	2 ± 1 (69 ± 32%)	4574	0	0 (0%)	3.1	1
9	3	1 ± 1	2 ± 1 (67 ± 32%)	4574	0	0 (0%)	2.9	1
8	3	1 ± 1	2 ± 1 (67 ± 32%)	4574	0	0 (0%)	2.9	1
7	3	1 ± 1	2 ± 1 (66 ± 33%)	4574	0	0 (0%)	2.8	1
6	3	1 ± 1	2 ± 1 (66 ± 33%)	4574	0	0 (0%)	2.8	1
5	3	1 ± 1	2 ± 1 (64 ± 33%)	4574	0	0 (0%)	2.7	1
4	3	1 ± 1	2 ± 1 (61 ± 35%)	4574	0	0 (0%)	2.4	1
3	3	1 ± 1	2 ± 1 (59 ± 35%)	4574	0	0 (0%)	2.3	1
2	9	2 ± 1	7 ± 1 (79 ± 16%)	4574	0	0 (0%)	4.8	1
1	9	4 ± 2	5 ± 2 (58 ± 21%)	4574	0	0 (0%)	2.4	1
0	9	13 ± 4	0 ± 1 (2 ± 7%)	4574	0	0 (0%)	0.7	1
-1	10	20 ± 4	0 ± 0 (0 ± 1%)	4574	0	0 (0%)	0.5	1
-2	18	26 ± 5	0 ± 0 (0 ± 2%)	4574	0	0 (0%)	0.7	1
-3	48	39 ± 6	10 ± 6 (20 ± 11%)	4574	0	0 (0%)	1.2	1
-4	125	107 ± 11	18 ± 10 (14 ± 8%)	4574	0	0 (0%)	1.2	1
-5	165	557 ± 19	0 ± 0 (0 ± 0%)	4574	0	0 (0%)	0.3	1
-6	194	1025 ± 24	0 ± 0 (0 ± 0%)	4574	0	0 (0%)	0.2	1
-7	448	1325 ± 25	0 ± 0 (0 ± 0%)	4574	0	0 (0%)	0.3	1
-8	963	1540 ± 27	0 ± 0 (0 ± 0%)	4574	0	0 (0%)	0.6	1
-9	1293	1669 ± 29	0 ± 0 (0 ± 0%)	4574	0	0 (0%)	0.8	1
-10	1512	1742 ± 30	0 ± 0 (0 ± 0%)	4574	0	0 (0%)	0.9	1

novel miRNAs predicted by miRDeep2

provisional id	miRDeep2 score	estimated probability that the miRNA candidate is a true positive	rfam alert	total read count	mature read count	loop read count	star read count	significant randfold p-value	miRBase miRNA	example miRBase miRNA with the same seed	UCSC browser	NCBI blastn	consensus mature sequence	consensus star sequence	consensus precursor sequence	precursor coordinate
CH991838_22062	1.5e+3	0.69 ± 0.32		3101	3096	0	5	no				blast	aggggggacccccgacacggc	cggagggggcggcccccgugc	aggggggacccccgacacggcaugggcacggagggggcggcccccgugc	CH991838:1061..1110:+
GLCHR01_1162	1.5e+3	0.69 ± 0.32		3101	3096	0	5	no				blast	aggggggacccccgacacggc	cggagggggcggcccccgugc	aggggggacccccgacacggcaugggcacggagggggcggcccccgugc	GLCHR01:1469000..1469049:+
AACB02000118_21135	1.5e+3	0.69 ± 0.32		3101	3096	0	5	no				blast	aggggggacccccgacacggc	cggagggggcggcccccgugc	aggggggacccccgacacggcaugggcacggagggggcggcccccgugc	AACB02000118:654..703:-
GLCHR04_12081	2.7	0.79 ± 0.16		12	12	0	0	yes				blast	ucggggaggacggggaaguggacc	uucaccagcuucagcguggcuccgacc	ucggggaggacggggaaguggaccgccgggaugaggggcggcgugggcuucucaaagcuggggguucaccagcuucagcguggcuccgacc	GLCHR04:2202817..2202908:-
GLCHR04_11919	2.6	0.79 ± 0.16		12	12	0	0	yes				blast	ucggggaggacggggaaguggacc	uucaccagcuucagcguggcuccgacc	ucggggaggacggggaaguggaccgccgggaugaggggcggcgugggcuuuucaaagcuggggguucaccagcuucagcguggcuccgacc	GLCHR04:2073560..2073651:-
GLCHR05_19494	2.4	0.79 ± 0.16		77	77	0	0	yes				blast	aggaggaggaugaggaaggu	cugucuuucuagcugcuug	cugucuuucuagcugcuugucgcgcuucagcucgcagcaguggagacugauugugacgaggaggaggaugaggaaggu	GLCHR05:3997811..3997889:-
GLCHR04_8723	2.3	0.79 ± 0.16		77	77	0	0	yes				blast	aggaggaggaugaggaaggu	cugucuuucuagcugcuug	cugucuuucuagcugcuugucgcgcuucagcucgcagcaguggaggcugauugugacgaggaggaggaugaggaaggu	GLCHR04:889134..889212:+
GLCHR05_15271	2.2	0.79 ± 0.16		77	77	0	0	yes				blast	gagaaagaaaaggaggacuucgcc	cgaguguccucugcgucgc	cgaguguccucugcgucgcaagccuuguuagggcuggcgagaaagaaaaggaggacuucgcc	GLCHR05:3489956..3490018:+
GLCHR04_8448	2.0	0.79 ± 0.16		14	14	0	0	yes				blast	ggcgagagaucgaggcaggg	cugccucaucugugcaga	ggcgagagaucgaggcagggaagcgccagcucucuacugccucaucugugcaga	GLCHR04:536112..536166:+

mature miRBase miRNAs detected by miRDeep2

tag id	miRDeep2 score	estimated probability that the miRNA is a true positive	rfam alert	predicted mature seq. in accordance with miRBase mature seq.	total read count	mature read count	loop read count	star read count	significant randfold p-value	mature miRBase miRNA	example miRBase miRNA with the same seed	UCSC browser	NCBI blastn	consensus mature sequence	consensus star sequence	consensus precursor sequence	precursor coordinate

mature miRBase miRNAs not detected by miRDeep2

miRBase precursor id	total read count	mature read count(s)	star read count	remaining reads	UCSC browser	NCBI blastn	miRBase mature sequence(s)	miRBase star sequence(s)	miRBase precursor sequence
ppc-mir-9	6608	6608	0	0	-	blast	ucuuugguuaucuagcuguauga ucuuugguuaucuagcuguauga ucuuugguuaucuagcuguaug ucuuugguuaucuagcuguauga ucuuugguuaucuagcuguauga ucuuugguuaucuagcuguauga ucuuugguuaucuagcuguauga cuuugguuaucuagcuguauga	-	uuccuucaaugggacagucauuaucgucucuuugguuaucuagcuguaugauuugaaauguaaaucauaaagcuggaaaacugaaggaacgaugugucucaugga
sme-mir-124c-2	9282	9282	0	0	-	blast	uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca gcauuaacccuguugucuuagau uaaggcacgcggugaaugcc uaaggcacgcggugaaugc uaaggcacgcggugaaugcca uaaggcacgcggugaaugcc uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca	-	ccauuauauucaugaagcauuaacccuguugucuuagauaguuuauuacaaaacauuuaaggcacgcggugaaugccaugugaaaugg
prd-let-7	6710	6710	0	0	-	blast	ugagguaguagguuguauaguuu ugagguaguagguuguauaguu ugagguaguagguuguauaguu ugagguaguagguuguauaguu ugagguaguagguuguauaguu ugagguaguagguuguauaguu ugagguaguagguuguauaguu ugagguaguagguuguauagu ugagguaguagguuguauaguu ugagguaguagguuguauaguu ugagguaguagguuguauaguu acugucaaucuacuaacuuaac	-	ugagguaguagguuguauaguuuuugauuguauaaaaacugucaaucuacuaacuuaac
prd-mir-124	8670	8670	0	0	-	blast	uaaggcacgcggugaaugccaa uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugccaau uaaggcacgcggugaaugccaa uaaggcacgcggugaaugc uaaggcacgcggugaaugcc uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcc ggguuuucacggugacuucagu	-	ggguuuucacggugacuucagugagaauuaaaucaacuaaggcacgcggugaaugccaau
cte-mir-125	466	466	0	0	-	blast	ucccugagacccuaacuuguga	-	uaaccacucggcaucucgcacucccugagacccuaacuugugaagcuuucuaaaaagaucgcgaguuagaaucuugggcucugcgaggagcucgauugccg
prd-mir-100	1880	1880	0	0	-	blast	aacccguagauccgaacuugug aacccguagauccgaacuugug aacccguagauccgaacuuguguu cacaucuucggguaugggucgg aacccguagauccgaacuugugu aacccguagauccgaacuuguguu	-	aacccguagauccgaacuuguguucugucaacaagaaacacaucuucggguaugggucgg
sme-mir-124a	448	448	0	0	-	blast	uaaggcacgcggugaaugcuu uaaggcacgcggugaaugc ugcuuuuaacgcggagcuuuagu	-	uucaaucagaugugcuuuuaacgcggagcuuuaguaauuuaacauguauacuaaggcacgcggugaaugcuuacuugauugag
lgi-mir-7	222	222	0	0	-	blast	uggaagacuagugauuuuguugu	-	auaaccuaucuacccuggucuggaagacuagugauuuuguuguuuaauuucaguuauaacaauaaaucacauucuucccagauugguugaucuuaaca
sme-mir-124b	442	442	0	0	-	blast	uaaggcacgcggugaaugc uaaggcacgcggugaaugcuga ugcauuuacaacgugucuuuagu	-	guauccaugaaaauuugcauuuacaacgugucuuuaguucaugugacacuaaggcacgcggugaaugcugaauuaaaugguuua
str-mir-124	193	193	0	0	-	blast	uaaggcacgcggugaaugc cgcuuucauccgugacuuuaga	-	cgcuuucauccgugacuuuagaagagucuuauaucacuaaggcacgcggugaaugc
sma-mir-124a	111	111	0	0	-	blast	ccauuuuccgcgauugccuugauga uaaggcacgcggugaauguca uuaaggcacgcggugaauguca uaaggcacgcggugaauguca	-	uuuguaugccauuuuccgcgauugccuugaugaguuauaaaauauuauucauaacaaaaauauuaaggcacgcggugaaugucauccacggagc
mle-mir-29a	105	105	0	0	-	blast	ccugaucucuccuggugcauaga uagcaccauuugaaaucaguuu uagcaccauuugaaaucaguuu uagcaccauuugaaaucaguuu	-	ccugaucucuccuggugcauagauuugaucccugcgucuagcaccauuugaaaucaguuu
bma-mir-7	35	35	0	0	-	blast	uggaagacuugugauuuuguugu	-	aaaaguuaaagcugaccagguggaagacuugugauuuuguuguuuauacauuuucagcaacagcaaauccgagcucuccacccggaggcau
mle-mir-8	42	42	0	0	-	blast	uaauacugucagguaaagauguc uaauacugucagguaaagauguc uaauacugucagguaaagauguc ggucuuaccuagcagcauugga	-	ggucuuaccuagcagcauuggauuguucugcucuaauacugucagguaaagauguc
cel-mir-8210	13	13	0	0	-	blast	cgacgaaaaaaagaaagaaagaaa ugccuucuuuccuugugucgccgac	-	ugccuucuuuccuugugucgccgacaaaucgccacaauccgucgacgaaaaaaagaaagaaagaaa
gsa-mir-124a	36	36	0	0	-	blast	uaaggcacgcggugaauacc uaaggcacgcggugaauacc gguauuuuccacgaagucuuagg uaaggcacgcggugaauacc	-	gguauuuuccacgaagucuuaggaaguugaaaaauaaaauauuuuaacuuaaggcacgcggugaauacc
mle-mir-153	36	36	0	0	-	blast	uugcauagucacaaaagugauc uugcauagucacaaaagugauc ccgcuuuugugguuuagcaauu uugcauagucacaaaagugauc	-	ccgcuuuugugguuuagcaauuguacucugggcaaauugcauagucacaaaagugauc
mle-mir-92b	12	12	0	0	-	blast	uauugcacuuucccggccugu gggucgagauucuugcaaaaag	-	gggucgagauucuugcaaaaaguuguacaucgacucuuauugcacuuucccggccugu
mle-mir-29b	24	24	0	0	-	blast	uagcaccauuugaaaucagug cugauuuccagugguggauaga uagcaccauuugaaaucagug	-	cugauuuccagugguggauagaugucccuuagggcucgagucuugucuagcaccauuugaaaucagug
gsa-mir-124b	12	12	0	0	-	blast	guguuuaccgugggggucuugau uaaggcacgcggugaauauc	-	guguuuaccgugggggucuugauuugguuguauuuauuaaggcacgcggugaauauc
mco-mir-9	16	16	0	0	-	blast	ucuuugguuaucuagcugugug ucuuugguuaucuagcugugug caacgcuagauuuccaaacaaa	-	ucuuugguuaucuagcugugugacagguagcuucaucuggcuucuuuuauauucacaacgcuagauuuccaaacaaa
mle-bantam	8	8	0	0	-	blast	cugguuuucacugugauuuacaga ugagaucauugugaaaacugauu	-	cugguuuucacugugauuuacagauauuuccaacaauucugagaucauugugaaaacugauu
mle-mir-184	15	15	0	0	-	blast	uggacggagaacugauaagggc uggacggagaacugauaagggc ccuuaucacuuuucccuccugu uggacggagaacugauaagggc	-	ccuuaucacuuuucccuccuguuuuugauuugaauacuggacggagaacugauaagggc
hco-mir-5991	5	5	0	0	-	blast	ugagguaguaggugguguucga	-	ucuucauaacauuuauuuuuagcguugaucgagcuaggcuucuauuugccuuugauuucgcuucgucauugagguaguagguggguguucgauugaugccau
bma-mir-153	5	5	0	0	-	blast	uugcauagucacaaaagugaug	-	uuucgcucgucgaucauuuuuguggauuagcaauuuuguucucgaauaauugcauagucacaaaagugauggacgugaagcgucguuugu
prd-mir-1	40	40	0	0	-	blast	uggaauguaaagaaguaugua uggaauguaaagaaguauguag uggaauguaaagaaguaugua uggaauguaaagaaguaugua uggaauguaaagaaguauguag uggaauguaaagaaguauguag uggaauguaaagaaguaugu uggaauguaaagaaguaugua uggaauguaaagaaguaugua acgugcuucuuugcaagaccaua uggaauguaaagaaguaugu	-	acgugcuucuuugcaagaccauagugauacuguuuauggaauguaaagaaguauguag
mle-mir-219	8	8	0	0	-	blast	agaacuguggguggacaucagu ugauuguccaaacgcaauucu ugauuguccaaacgcaauucug	-	ugauuguccaaacgcaauucuuguuacauccuaaccaagaacuguggguggacaucagu
ppc-mir-235	16	16	0	0	-	blast	uauugcacucgucccggccuga aggccgcggucggaugccauguu uauugcacucgucccggccug uauugcacucgucccggccuga uauugcacucgucccggccu	-	aggccgcggucggaugccauguucgcacagucgaagcguaauauugcacucgucccggccuga
prd-mir-235	6	6	0	0	-	blast	uauugcacucgucccggccu uauugcacucgucccggccug aggaaggggcguuuggaauguu	-	aggaaggggcguuuggaauguuucuuuuucuguuguauauugcacucgucccggccug
sme-mir-7d	3	3	0	0	-	blast	caacauuauuucuguuuuccaa uggaagacuaguaauuuuguugu	-	aaaaacuauaaaacaauccuuggaagacuaguaauuuuguuguaugcgaaauuuuuacagacauucaguuugagaggauuuacaacauuauuucuguuuuccaagaaacuuauagucaaucaacg
mle-mir-1	18	18	0	0	-	blast	uggaauguaaagaaguaugua uggaauguaaagaaguaugua acauacuuccuugcuaucccaua uggaauguaaagaaguaugua uggaauguaaagaaguaugu uggaauguaaagaaguaugua uggaauguaaagaaguaugu uggaauguaaagaaguauguau uggaauguaaagaaguaugua uggaauguaaagaaguauguau	-	acauacuuccuugcuaucccauauuuauggcaaccuauggaauguaaagaaguauguau
mle-mir-317	2	2	0	0	-	blast	ugaacacagcuggugguauccuau agggugccauccugugcucaca	-	agggugccauccugugcucacauguugauaugaacaaagugugugugaacacagcuggugguauccuau
bma-mir-81	4	4	0	0	-	blast	ugagaucauugugaaagcuau ugagaucauugugaaagcuauu	-	gguggggcagugccuucaccaugaucuacagaagucuaucauuuugagucugagaucauugugaaagcuauuugccuucuaccgucuc
cte-mir-317	2	2	0	0	-	blast	ugaacacagcuggugguaucucuuu	-	cggaaggagaagcgucgagcgcaggcaagagaucacugcggugcucacauguagccacuggugaacacagcuggugguaucucuuuucuucgcucugaccug
mle-mir-375	4	4	0	0	-	blast	uuuguucguucggcucgcguua acacgagcaguucguaacaaggc uuuguucguucggcucgcguua	-	acacgagcaguucguaacaaggccucccauuuagguguuuuguucguucggcucgcguua
lgi-mir-133	4	4	0	0	-	blast	uugguccccuucaaccagcugu uugguccccuucaaccagcugu agcugguugaaauugggccaaau	-	ugucuguagcugguugaaauugggccaaauuagaaaaggucaagcauuugguccccuucaaccagcuguaguug
egr-mir-10271	2	2	0	0	-	blast	ggggguaagccaguccuauuuc cguggggcuugguguacuucug	-	cguggggcuugguguacuucugggugcggugcagugcgugugguuggcgcaggggguaagccaguccuauuuc
cte-bantam	2	2	0	0	-	blast	ugagaucauugugaaaacuauc	-	ucagagcaagacuugcgagacugguuuucucuuuggucucuccagauuuuuauuggaauucugagaucauugugaaaacuaaucucgcugacauuacgccag
lgi-mir-317	2	2	0	0	-	blast	ugaacacagcuggugguaucuucu	-	aagagaagauaacucuguuggggaguaaccauguugguuuacaguuuugaaacauuugugaacacagcuggugguaucuucuauaagcagaguauuuca
sme-mir-71c	3	3	0	0	-	blast	ugaaagacaugguaguga ugaaagacaugguagugagau ucucauuauucaaguuuuucuua ugaaagacaugguaguga	-	guaguuuucuugaaagacaugguagugagauuauuuaaauuaaaauaauuuaaaaucucauuauucaaguuuuucuuauaagc
mle-mir-87	5	5	0	0	-	blast	gugagcaaaguuucaggugu gugagcaaaguuucaggugu gugagcaaaguuucagguguu gugagcaaaguuucaggugu gugccugaaaccuuggcucaggccu gugagcaaaguuucaggugu	-	gugccugaaaccuuggcucaggccuggcuauacgacaaggugagcaaaguuucagguguuu
str-mir-34a	7	7	0	0	-	blast	uggcagugugguuagcugguugu uggcagugugguuagcugguug uggcagugugguuagcugguug acagcucacucaacugccaag uggcagugugguuagcugguugu uggcagugugguuagcugguugu uggcagugugguuagcugguugu uggcagugugguuagcugguug	-	uggcagugugguuagcugguugugauuuuuuagacgcucaacagcucacucaacugccaag
str-mir-72	12	12	0	0	-	blast	aguuaugcuauauguugccaga aggcaagauguuggcauagcuga aggcaagauguuggcauagcug aggcaagauguuggcauagcug aggcaagauguuggcauagcuga aggcaagauguuggcauagcuga aggcaagauguuggcauagcu aggcaagauguuggcauagcuga aggcaagauguuggcauagcu aggcaagauguuggcauagcug aggcaagauguuggcauagcuga aggcaagauguuggcauagcuga aggcaagauguuggcauagcuga	-	aggcaagauguuggcauagcugauaugucgaaaauuauucaguuaugcuauauguugccaga
str-mir-71	9	9	0	0	-	blast	ugaaagacaugguagugagacg ugaaagacaugguagugagac uaucacuauucuguuuuucucc ugaaagacaugguaguga ugaaagacaugguagugagacg ugaaagacaugguaguga ugaaagacaugguagugagacg ugaaagacaugguagugagac ugaaagacaugguagugagacg ugaaagacaugguagugagac	-	ugaaagacaugguagugagacgaugaguuugaauuccguaucacuauucuguuuuucucc
mle-mir-71	5	5	0	0	-	blast	ugaaagacaugguagugagaug ugaaagacaugguaguga ccuuacuacucugucuuuugca ugaaagacaugguagugagau ugaaagacaugguagugagaug ugaaagacaugguaguga	-	ugaaagacaugguagugagauguuugugugacucaccuuacuacucugucuuuugca
mle-mir-279	3	3	0	0	-	blast	ugacuagauccacacucaucca ugacuagauccacacucaucc ugacuagauccacacucaucca ggugauuguuggucuggugcaug	-	ggugauuguuggucuggugcauguuguuauuaucgggucaugacuagauccacacucaucca
prd-mir-87	12	12	0	0	-	blast	gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugu gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc ggccugggacuuggacucaaccu gugagcaaaguuucaggugu gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugu gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc	-	ggccugggacuuggacucaaccugcguaggcucgaaguucgaggugagcaaaguuucaggugugc
lgi-mir-10	1	1	0	0	-	blast	uacccuguagauccgaauuugu	-	gaauauuugugccuuuacguuuacccuguagauccgaauuuguguaugaaacaaucuacaaauucguuuuugcggugauuguugucgagguuuucaaaauca
lgi-mir-87	5	5	0	0	-	blast	gugagcaaaguuucaggugu gugagcaaaguuucaggugu gugagcaaaguuucagguguau gugagcaaaguuucaggugu gugagcaaaguuucagguguau	-	uuauaaacuugagguuugucugaggugccugaaauuuuagcucaaaccuaauaauagaggugagcaaaguuucagguguaucagcugaacuuauauaucu
str-mir-34b	1	1	0	0	-	blast	acagcuuaccaaauugccauc uggcagugugguuagcugguug	-	uggcagugugguuagcugguugaugauuuuaaaaaucaacagcuuaccaaauugccauc
fhe-mir-87	4	4	0	0	-	blast	gugagcaaaguuucaggugu gugagcaaaguuucaggugu ggugagcaaaguuucagguguga gugagcaaaguuucaggugu	-	acaacugauaccucuugcacauguauggaauggugagcaaaguuucagguguga
sme-mir-31b-3	1	1	0	0	-	blast	aggcaagaugcuggcauagcuga agcuauucaggaucuuuccau	-	caaggcaagaugcuggcauagcugauaaacuauuuauuaccagcuauucaggaucuuuccauga
lgi-mir-33	2	2	0	0	-	blast	gugcauuguaguugcauugca gcaaugcaucugcagugcaaaca gugcauuguaguugcauugcau	-	cgaacuaagcaguugugauggugcauuguaguugcauugcauuuguuauaaauuaugcaaugcaucugcagugcaaacauuacgauugaaacuaucaccua
sme-mir-124e	1	1	0	0	-	blast	gccauucucaguuggagucuu uaaggcacgcgugugaaugcca	-	uucaauaaaauuauucuacugccauucucaguuggagucuugauaugaucuauuaaggcacgcgugugaaugccaaggaauuuuauuucucuucu
fhe-mir-9	1	1	0	0	-	blast	ucuuugguuaucaagcaguaug	-	ucuuugguuaucaagcaguaugauugucacacuugaaacggccagugacacaacaacgcgcacuuugugcucgcggugauuguuucugugucgaugacacucggcucgucuaacaucauaaagcuaggugaccaaagu
hpo-mir-1	14	14	0	0	-	blast	uggaauguaaagaaguaugua uggaauguaaagaaguaugua cgugcuucuuugcaugcccaua uggaauguaaagaaguaugua uggaauguaaagaaguaugu uggaauguaaagaaguaugua uggaauguaaagaaguaugua uggaauguaaagaaguaugu	-	cgugcuucuuugcaugcccauacuguauuuugauauggaauguaaagaaguaugua
emu-mir-9	16	16	0	0	-	blast	ucuuugguuaucuagcugugug caaggcuagauuuccaaacaaa caaggcuagauuuccaaacaaa ucuuugguuaucuagcugugug	-	uaguugccauucuuugguuaucuagcugugugagguuuagcuucagucagcucuuauuuucacaaggcuagauuuccaaacaaacgcaucuaa
mle-mir-124	9100	9100	0	0	-	blast	uaaggcacgcggugaaugcc uaaggcacgcggugaaugc uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcc uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca guguucacuguguaagccuuggu uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca	-	guguucacuguguaagccuuggugugugugcacgauuaaggcacgcggugaaugcca
sja-mir-124	111	111	0	0	-	blast	uaaggcacgcggugaauguca ccauuuuccgcgauugccuugauuu uuaaggcacgcggugaauguca uaaggcacgcggugaauguca	-	uauauguaugccauuuuccgcgauugccuugauuuguuaaaagaaaaugauucacaacaaaauauuaaggcacgcggugaaugucauccacggugc
emu-mir-124b	6	6	0	0	-	blast	uaaggcacgcggugaauacc uaaggcacgcggugaauacc uaaggcacgcggugaauacc guauucuacgcgaugucuuggua guauucuacgcgaugucuuggu	-	gugaauuugguauucuacgcgaugucuugguacgagcugacacuaaggcacgcggugaauaccaaggucc
crm-mir-87	12	12	0	0	-	blast	gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugu gugagcaaaguuucaggugugc gugagcaaaguuucaggugu gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugu cgccugacacuuucgucucaaccu gugagcaaaguuucaggugugc	-	cagguugugccuuccggccgccugacacuuucgucucaaccucgcugucuguauagucguaggugagcaaaguuucaggugugccggaacacauccu
hpo-mir-9	6608	6608	0	0	-	blast	ucuuugguuaucuagcuguauga ucuuugguuaucuagcuguauga ucuuugguuaucuagcuguauga ucuuugguuaucuagcuguauga cuuugguuaucuagcuguauga ucuuugguuaucuagcuguauga ucuuugguuaucuagcuguauga auaaggcuggacgacuaaaggaa ucuuugguuaucuagcuguaug	-	gucauugaucucuuugguuaucuagcuguaugauuuuucguacucauaaggcuggacgacuaaaggaaucaauucguc
gsa-mir-87	12	12	0	0	-	blast	gugagcaaaguuucaggugu gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugu gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugu gugagcaaaguuucaggugugc acgccugauacuaggcucuuacca	-	acgccugauacuaggcucuuaccaucagaguugauagaaagaauauuucuguaucgaaggaauugauuuuucccgcaauacuaaaaucuuuuuacuuuuggugagcaaaguuucaggugugc
mle-mir-9	6608	6608	0	0	-	blast	cuuugguuaucuagcuguauga ucuuugguuaucuagcuguauga auaaagcuagguuaccaaaggca auaaagcuagguuaccaaaggc ucuuugguuaucuagcuguauga ucuuugguuaucuagcuguauga ucuuugguuaucuagcuguauga ucuuugguuaucuagcuguaug ucuuugguuaucuagcuguauga ucuuugguuaucuagcuguauga	-	ucuuugguuaucuagcuguaugauugcccgaaaccaucauaaagcuagguuaccaaaggca
cel-mir-124	6930	6930	0	0	-	blast	uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcc uaaggcacgcggugaaugc uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcc uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca gcaugcacccuagugacuuuagu	-	gucccacuugucaucuggcaugcacccuagugacuuuaguggacaucaagucuuccaacuaaggcacgcggugaaugccacguggccaugauggg
hpo-mir-34	3	3	0	0	-	blast	uggcagugugguuagcugguug uggcagugugguuagcugguug uggcagugugguuagcugguug acggcuaucaacacugccgucc	-	uggcagugugguuagcugguugcagccggugacaacggcuaucaacacugccgucc
asu-mir-124	8670	8670	0	0	-	blast	uaaggcacgcggugaaugcca uaaggcacgcggugaaugccaau uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugccaa uaaggcacgcggugaaugcca cgccuucaccggugacuuuggu uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcc uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugc uaaggcacgcggugaaugccaa uaaggcacgcggugaaugcc	-	uuugcgacacgccuucaccggugacuuuggugugaagcagccuacuaaggcacgcggugaaugccaaucgcucuug
bma-let-7	6000	6000	0	0	-	blast	ugagguaguagguuguauaguu cuguccagccugcuagcuugcc ugagguaguagguuguauaguu ugagguaguagguuguauaguu ugagguaguagguuguauagu ugagguaguagguuguauaguu ugagguaguagguuguauaguu ugagguaguagguuguauaguu ugagguaguagguuguauaguu ugagguaguagguuguauaguu ugagguaguagguuguauaguu	-	augcuaacgacccugaaugauagcuugcucgaugagguaguagguuguauaguuaugaguuguaccauaaucggagaaacuguccagccugcuagcuugccgugcgggucuaucauccguccccc
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asu-mir-34	7	7	0	0	-	blast	uggcagugugguuagcugguugu uggcagugugguuagcugguugu uggcagugugguuagcugguug uggcagugugguuagcugguugu uggcagugugguuagcugguug uggcagugugguuagcugguug aacggcuaucaccacugccgucc uggcagugugguuagcugguugu	-	gcggauaaagucaccggcuggcagugugguuagcugguugucagaugugagacaacggcuaucaccacugccguccugguggguucguccaucg
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sme-mir-2152	1	0	0	1	-	blast	ggguucgaaguaugucucucuuu	-	cuuauucucaaacuuuaaaugggguucgaaguaugucucucuuuauuggagauauauaucgaauacgaaugacuagugagccauuuuu
hpo-mir-124	6930	6930	0	0	-	blast	uaaggcacgcggugaaugcca uaaggcacgcggugaaugcc uaaggcacgcggugaaugcca uaaggcacgcggugaaugcc uaaggcacgcggugaaugc uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca cgcuuucaucggugacuuuagu uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca	-	cgcuuucaucggugacuuuagugugaacugcaacuaaggcacgcggugaaugcca
hpo-mir-71	9	9	0	0	-	blast	ugaaagacaugguagugagacg ugaaagacaugguaguga uaucacuauucuguuuuucgc ugaaagacaugguagugagac uaucacuauucuguuuuucgcc uaucacuauucuguuuuucgcc ugaaagacaugguagugagacg ugaaagacaugguagugagac ugaaagacaugguagugagacg uaucacuauucuguuuuucgcc ugaaagacaugguagugagacg ugaaagacaugguagugagac ugaaagacaugguaguga	-	ugaaagacaugguagugagacgcuuuguucuggccguaucacuauucuguuuuucgcc
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cel-mir-72	12	12	0	0	-	blast	aggcaagauguuggcauagcu aggcaagauguuggcauagcuga aggcaagauguuggcauagcug aggcaagauguuggcauagcuga aggcaagauguuggcauagcuga aggcaagauguuggcauagcuga aggcaagauguuggcauagcuga aggcaagauguuggcauagcuga aggcaagauguuggcauagcug aggcaagauguuggcauagcu agcuucgccacauucugccacg aggcaagauguuggcauagcuga aggcaagauguuggcauagcug	-	agguccgucagagcuaggcaagauguuggcauagcugaaugaucgcuauaacaacuaucagcuucgccacauucugccacgcacugaugugaggaccu
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emu-mir-124a	10768	10768	0	0	-	blast	uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugccaa uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca gcguucaacccucggagccuuuguc uaaggcacgcggugaaugcca gcguucaacccucggagccuuuguc uaaggcacgcggugaaugccaa uaaggcacgcggugaaugc uaaggcacgcggugaaugcc uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcc	-	ugucaagcacgugaaauggcguucaacccucggagccuuugucagcgauugaauuaaggcacgcggugaaugccaaaugcgaugcucc
asu-mir-72	12	12	0	0	-	blast	aggcaagauguuggcauagcuga aggcaagauguuggcauagcu aggcaagauguuggcauagcug aggcaagauguuggcauagcuga aggcaagauguuggcauagcuga aggcaagauguuggcauagcuga aggcaagauguuggcauagcuga aggcaagauguuggcauagcuga agccgugcuacauaaggccaugc aggcaagauguuggcauagcu aggcaagauguuggcauagcug aggcaagauguuggcauagcug aggcaagauguuggcauagcuga	-	cguggggaccaggcaagauguuggcauagcugaacgaagcuucggauucagccgugcuacauaaggccaugcucccgcg
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mco-mir-87	12	12	0	0	-	blast	gugagcaaaguuucaggugu gugagcaaaguuucaggugugc ccaccugcuauuuugcucgaucc gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugu gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugu gugagcaaaguuucaggugugc	-	ccaccugcuauuuugcucgauccagaguuuagccuagcgucuuucuucucaagaggaaugaacgcuggguuggugagcaaaguuucaggugugc
hpo-mir-87a	12	12	0	0	-	blast	gugagcaaaguuucaggugugc gugagcaaaguuucaggugu gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugu gugagcaaaguuucaggugu gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc gugagcaaaguuucaggugugc cgccugaaccuuucgucucaaccu	-	cgccugaaccuuucgucucaaccucuaugucaggcaggugagcaaaguuucaggugugc
mle-mir-33	1	0	0	1	-	blast	caaugucucugcaauguaauca	-	gugcauuguaguugcauugcgaggaauuuuaauuuugcaaugucucugcaauguaauca
cel-let-7	6710	6710	0	0	-	blast	ugagguaguagguuguauaguu cuaugcaauuuucuaccuuacc ugagguaguagguuguauaguu ugagguaguagguuguauaguu ugagguaguagguuguauaguuu ugagguaguagguuguauaguu ugagguaguagguuguauaguu ugagguaguagguuguauaguu ugagguaguagguuguauaguu ugagguaguagguuguauaguu ugagguaguagguuguauagu ugagguaguagguuguauaguu	-	uacacuguggauccggugagguaguagguuguauaguuuggaauauuaccaccggugaacuaugcaauuuucuaccuuaccggagacagaacucuucga
asu-mir-100a-2	1885	1885	0	0	-	blast	aacccguagauccgaacuugugu aacccguagauccgaacuuguguu aacccguagauccgaacuugug aacccguagauccgaacuugug aacccguagauccgaacuuguguu caugagcucggcacucggguaga	-	cgauucauuguguacugaagcaggggugugugcggucaacccguagauccgaacuuguguugggguuugguaacaugagcucggcacucggguagacugcgucaucccagcccgccacccaaugcccg
prd-mir-71	9	9	0	0	-	blast	ugaaagacaugguagugagacg ugucacuauucuguuuuucgcc ugaaagacaugguagugagac ugaaagacaugguagugagacg ugaaagacaugguaguga ugaaagacaugguagugagacg ugaaagacaugguagugagac ugaaagacaugguaguga ugaaagacaugguagugagacg ugaaagacaugguagugagac	-	ugaaagacaugguagugagacgugugcucugcgaucgugucacuauucuguuuuucgcc
sme-mir-31b-1	1	1	0	0	-	blast	aggcaagaugcuggcauagcuga cagcuauucaggaucuuuccccu	-	auugauaaugacaaggcaagaugcuggcauagcugauaaacuauuuauuaccagcuauucaggaucuuuccccugaauauaucaau
asu-mir-9	6584	6584	0	0	-	blast	cuuugguuaucuagcuguauga auaaagcuggacgaccgaaguaa ucuuugguuaucuagcuguauga ucuuugguuaucuagcuguauga ucuuugguuaucuagcuguauga ucuuugguuaucuagcuguauga ucuuugguuaucuagcuguaug ucuuugguuaucuagcuguauga ucuuugguuaucuagcuguauga	-	gcaauuucuuugguuaucuagcuguaugaguaccgcguuuagucgucauaaagcuggacgaccgaaguaauggccgcu
mco-mir-124b	12	0	0	12	-	blast	guauucuacgcggaugucuuggug	-	guauucuacgcggaugucuugguguggagcagacauuaaggcacgcggugaauac
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sme-mir-124c-1	6958	6958	0	0	-	blast	uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca gcgcucaccucgugaccuuugu uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca uaaggcacgcggugaaugcca	-	ugauccuauucuuuacuagcgcucaccucgugaccuuugucaguguuggacuaaggcacgcggugaaugccagaugaaaggauga
prd-mir-34	7	7	0	0	-	blast	uggcagugugguuagcugguugu uggcagugugguuagcugguug uggcagugugguuagcugguug uggcagugugguuagcugguugu uggcagugugguuagcugguugu uggcagugugguuagcugguugu acggcuaucuggcacugcccgcc uggcagugugguuagcugguug	-	uggcagugugguuagcugguuguuguuaaugaccaguucaacggcuaucuggcacugcccgcc
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asu-mir-92	16	16	0	0	-	blast	uauugcacucgucccggccuga uauugcacucgucccggccug aggccgagucgucugcauuauu uauugcacucgucccggccu uauugcacucgucccggccuga	-	gacacagucaggccgagucgucugcauuauucggaagcagcaaacggcaauauugcacucgucccggccugagugcgcguuca
mle-mir-31	12	12	0	0	-	blast	aggcaagauguuggcauagcug aggcaagauguuggcauagcuga aggcaagauguuggcauagcuga aggcaagauguuggcauagcu aggcaagauguuggcauagcug aggcaagauguuggcauagcuga aggcaagauguuggcauagcuga aggcaagauguuggcauagcuga aggcaagauguuggcauagcuga aggcaagauguuggcauagcuga agcugugucauauguugccaau aggcaagauguuggcauagcug aggcaagauguuggcauagcu	-	aggcaagauguuggcauagcugaguauuguacacuucagcugugucauauguugccaau
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mle-mir-34	7	7	0	0	-	blast	uggcagugugguuagcugguugu uggcagugugguuagcugguug uggcagugugguuagcugguug aaccacugauuacacuuccuug uggcagugugguuagcugguugu uggcagugugguuagcugguugu uggcagugugguuagcugguugu uggcagugugguuagcugguug	-	uggcagugugguuagcugguuguguauccuuuaccauuacaaccacugauuacacuuccuug
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