

Figure S1A. Locations, structures and scores of predicted vertebrate miRNA target sites.

miRNA: mir-1

Human predicted target: ENSG00000108654

Mouse predicted target: ENSMUSG00000020719

Rat predicted target: ENSRNOG00000013899

Fugu predicted target: SINFRUG00000143955

Hs Gene description: PROBABLE RNA-DEPENDENT HELICASE P68 (DEAD-BOX PROTEIN P68) (DEAD-BOX PROTEIN 5). [Source:SWISSPROT;Acc:P17844] NM_004396

mir-1 ENSG00000108654 2307 nt UTR 1 hits 163

-----1-----

>ENSG00000108654 hs-mir-1 163 170

UGGAAUGUAAAGAAGUAUGUAU&UGCACUUUUUCGCUAUUUAAGUUGGAUAUUUCUCUACAUCCU

.((((((((((.((((((((((.(&.....)))))))))).)))))))). -24.30

mir-1 ENSMUSG00000020719 2302 nt UTR 2 hits 164 2013

-----1-----
-----1-----

>ENSMUSG00000020719 hs-mir-1 164 171

UGGAAUGUAAAGAAGUAUGUAU&GCACUUUUUCGCUAUUUAAGUUGGAUAUUUCUCUACAUCCU

.((((((((((.((((((((((.(&.....)))))))))).)))))))). -24.30

>ENSMUSG00000020719 hs-mir-1 2013 2020

UGGAAUGUAAAGAAGUAUGUAU&UUUGCCAGCAUUAGUAUAAACUAAAAGUGCACAACACAUCCU

.(((((((((.(((.....&.....)))).....)))))). -14.40

mir-1 ENSRNOG00000013899 2307 nt UTR 1 hits 167

-----1-----

>ENSRNOG00000013899 hs-mir-1 167 174
UGGAAUGUAAAGAAGUAUGUAU&GCACUUUUUUCGCUAUUUAAGUUGGAUAUUUCUCUACAUCCU
.((((((((((..((((((((((..&.....)))))))))).)))))))). -24.30

mir-1 SINFRUG00000143955 2000 nt UTR 1 hits 212
-----1-----

>SINFRUG00000143955 hs-mir-1 212 219
UGGAAUGUAAAGAAGUAUGUAU&GAUGCACAUUUUUCAUCCUUUAUUGCAUAUUUGUUACAUCCU
.((((((((((..((((((((((..&.....)))))))))).)))))))). -24.30

miRNA: mir-1
Human predicted target: ENSG00000145925
Mouse predicted target: ENSMUSG00000025867
Rat predicted target: ENSRNOG00000000105
Fugu predicted target: SINFRUG00000121517
Fugu predicted target: SINFRUG00000145582
Hs Gene description: COMPLEXIN 2 (SYNAPHIN 1) (921-L).
[Source:SWISSPROT;Acc:Q13329] NM_006651

mir-1 ENSG00000145925 2183 nt UTR 2 hits 295 357
-----1--1-----

>ENSG00000145925 hs-mir-1 295 302
UGGAAUGUAAAGAAGUAUGUAU&GAAGCCUAAGGUCGUGCUAGUGUGGUGACCCCAUACAUCCU
.((((((((((...((((((((((...&.....)))))))))).)))))))). -15.95

>ENSG00000145925 hs-mir-1 357 364
UGGAAUGUAAAGAAGUAUGUAU&GAGGACCACUGUCCCCAGCCAGCCAAAGUAAUGACACAUCCAG
((((((((.....&.....)))))))). -14.90
mir-1 ENSMUSG00000025867 2000 nt UTR 2 hits 340 402
-----1--1-----

>ENSMUSG00000025867 hs-mir-1 340 347
UGGAAUGUAAAGAAGUAUGUAU&AUGGUCUAUGUUAUGUGGUGACACUCCCCCAUACAUCCU
.((((((((.....&.....)))))))). -15.10

>ENSMUSG00000025867 hs-mir-1 402 409
UGGAAUGUAAAGAAGUAUGUAU&GAGGACCACUGUCCCCAGCCAGCCAAAGUAAUGACACAUCCAG
((((((((.....&.....)))))))). -14.90
mir-1 ENSRNOG00000000105 2000 nt UTR 2 hits 329 391
-----1-1-----

>ENSRNOG00000000105 hs-mir-1 329 336
UGGAAUGUAAAGAAGUAUGUAU&AUGGUCUACAUAUAGUGUGGUAACACUCCCCCAUACAUCCU
.((((((((.....&.....)))))))). -15.10

>ENSRNOG00000000105 hs-mir-1 391 398
UGGAAUGUAAAGAAGUAUGUAU&GAGGACCACUGUCCCCAGCCAGCCAAAGUAAUGACACAUCCAG
((((((((.....&.....)))))))). -14.90
mir-1 SINFRUG00000121517 2000 nt UTR 1 hits 1874
-----1-----

>SINFRUG00000121517 hs-mir-1 1874 1881
UGGAAUGUAAAGAAGUAUGUAU&AAACCCUGAAAAAAGAUUUGUAUUAUACUCAACACAUCCU

.((((((((...(((((((((&.....))))))..))))))..)))))).. -15.80

mir-1 SINFRUG00000145582 2000 nt UTR 3 hits 956 974 1187

-----2-----1-----

>SINFRUG00000145582 hs-mir-1 956 963

UGGAAUGUAAAGAAGUAUGUAU&GUCUUAGUUCGUCUGUGAUCUCCGUCACGUCAAACAUCUCCAG

((((((((((...((((((((&.....))))))..))))))..)))))).. -16.40

>SINFRUG00000145582 hs-mir-1 974 981

UGGAAUGUAAAGAAGUAUGUAU&UCUCCGUCACGUCAAACAUCUCCAGAGAUUCUCAAACAUCUCCAC

((((((((((...((((((((&.....))))))..))))))..)))))).. -15.50

>SINFRUG00000145582 hs-mir-1 1187 1194

UGGAAUGUAAAGAAGUAUGUAU&GUAGGAGCCACUGGAACGGAACUGUGUCCGGCUCAACAUCUCCAA

((((((((((...((((((((&.....))))))..))))))..)))))).. -16.90

miRNA: let-7a

Human predicted target: ENSG00000108821

Mouse predicted target: ENSMUSG00000001506

Rat predicted target: ENSRNOG00000003897

Fugu predicted target: SINFRUG00000130987

Hs Gene description: COLLAGEN ALPHA 1(I) CHAIN PRECURSOR.
[Source:SWISSPROT;Acc:P02452]

let-7a ENSG00000108821 2000 nt UTR 1 hits 789

-----1-----

>ENSG00000108821 hs-let-7a 789 796
UGAGGUAGUAGGUUGUAUAGUU&UGUUCUGUUCUUGUGUAACUGUGUUGCUGAAAGACUACCUCGU
((((((((((..((((((&.....))))))..))).....)))))))). -25.50
let-7a ENSMUSG00000001506 2228 nt UTR 1 hits 786

-----1-----

>ENSMUSG00000001506 hs-let-7a 786 793
UGAGGUAGUAGGUUGUAUAGUU&GUUCUAUUCUCAGUGCAAUUGUGUUGCUGAAAGACUACCUCGU
((((((((((..((((((&.....))))))..))).....)))))))). -23.30
let-7a ENSRNOG00000003897 2000 nt UTR 1 hits 1992

-----1-----

>ENSRNOG00000003897 hs-let-7a 1992 1999
UGAGGUAGUAGGUUGUAUAGUU&UGUUCUGUUCUUGUGUAAUUGUGUUGCUGAAAGACUACCUCGU
((((((((((..((((((&.....))))))..))).....)))))))). -23.20
let-7a SINFRUG00000130987 2000 nt UTR 1 hits 508

-----1-----

>SINFRUG00000130987 hs-let-7a 508 515
UGAGGUAGUAGGUUGUAUAGUU&AAAGAAGCUUCACCUUAAUGGCAAUAUGUAGAUGGCUACCUCAU
((((((((((..((((((&.....))))))..))).....)))))))). -21.20

miRNA: let-7a

Human predicted target: ENSG00000119906

Mouse predicted target: ENSMUSG00000036097

Rat predicted target: ENSRNOG00000014489

Fugu predicted target: SINFRUG00000140611

Hs Gene description: C10ORF6. [Source:RefSeq;Acc:NM_018121] NM_144592

let-7a ENSG00000119906 2862 nt UTR 2 hits 1326 1560

-----1-----1-----

>ENSG00000119906 hs-let-7a 1326 1333

UGAGGUAGUAGGUUGUAUAGUU&UUGCUGUUUGAGAGGCAAGAAAAUAAAAUAACUUCUACCUCU

.(((((((.(((((((.....&.....)))))))).))))). -22.20

>ENSG00000119906 hs-let-7a 1560 1567

UGAGGUAGUAGGUUGUAUAGUU&UGUUGUUUACUGGUAAGAAUUAUUAUCUUGAUACUACCUCU

.(((((((.(....(.(((((&.....)))))))).))))). -19.70

let-7a ENSMUSG00000036097 4668 nt UTR 2 hits 1314 1542

-----1-----1-----

>ENSMUSG00000036097 hs-let-7a 1314 1321

UGAGGUAGUAGGUUGUAUAGUU&GAGAGGAGAAAAUAAGUUCUGAGAGCUAACUCUUCUACCUCU

.(((((((.((((.(.(((((&.....)))))))).))))). -20.70

>ENSMUSG00000036097 hs-let-7a 1542 1549

UGAGGUAGUAGGUUGUAUAGUU&GUGUUGAGUUUACUGGUAAGAAUUAUUGUCUUGAUGCUACCUCU

.(((((((.(....(.(((((&.....)))))))).))))). -19.70

let-7a ENSRNOG00000014489 4549 nt UTR 2 hits 1194 1424

-----1-----1-----

>ENSRNOG00000014489 hs-let-7a 1194 1201
UGAGGUAGUAGGUUGUAUAGUU&UUGAGAGGAGAAAUAAGUUCUGAGAGCUAACUUUCUACCUCU
.((((((((((.....&.....)))))))). -20.50

>ENSRNOG00000014489 hs-let-7a 1424 1431
UGAGGUAGUAGGUUGUAUAGUU&GUGUUGAGUUUACUGGUAAGAAUAUUGUCUUGAUGCUACCUCU
.((((((((((.....(.(((((.&.....)))))))). -19.70

let-7a SINFRUG00000140611 2000 nt UTR 1 hits 673

-----1-----

>SINFRUG00000140611 hs-let-7a 673 680
UGAGGUAGUAGGUUGUAUAGUU&UAUGACUGAAUGGUUUAUCCACCAUCUAGGCCUACUACCUCU
.((((((((((((.....&.....)))))))). -27.00

miRNA: let-7a

Human predicted target: ENSG00000140807

Mouse predicted target: ENSMUSG00000031661

Rat predicted target: ENSRNOG00000014293

Fugu predicted target: SINFRUG00000134205

Hs Gene description: NAKED CUTICLE HOMOLOG 1; NAKED CUTICLE-1; DVL-BINDING PROTEIN. [Source:RefSeq;Acc:NM_033119] NM_033119

let-7a ENSG00000140807 2436 nt UTR 1 hits 427

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>ENSG00000140807 hs-let-7a 427 434
UGAGGUAGUAGGUUGUAUAGUU&GAGACCCUCGAAAUCUCCGAGAAGAUAAACAGCUGCUACCUCU

Fugu predicted target: SINFRUG00000151687

Hs Gene description: UDP-GLCNAC:BETAGAL BETA-1,3-N-ACETYLGLUCOSAMINYLTRANSFERASE 7. [Source:RefSeq;Acc:NM_145236] NM_145236

let-7a ENSG00000156966 2048 nt UTR 2 hits 637 1105

-----1-----1-----

>ENSG00000156966 hs-let-7a 637 644

UGAGGUAGUAGGUUGUAUAGUU&GUGUCCUGUAAGGUCUGGAAGGGCGACCGCUCUGACUACCUCAG

(((((((((.((((.((((.&.....))))).))))).))))).))))). -26.10

>ENSG00000156966 hs-let-7a 1105 1112

UGAGGUAGUAGGUUGUAUAGUU&CAGCUGUGGGGGUGGGUGCAGAAGGUUGCCACCUCCUACCUCAG

(((((((((.((((.((((.&.....))))).))))).))))).))))). -25.00

let-7a ENSMUSG00000047290 3076 nt UTR 1 hits 576

-----1-----

>ENSMUSG00000047290 hs-let-7a 576 583

UGAGGUAGUAGGUUGUAUAGUU&CUUCUCUUGUCCAGAAGCCUGACUGGCCGCUCUGACUACCUCAG

(((((((((.((((.((((.&.....))))).))))).))))).))))). -24.50

let-7a ENSRNOG00000018267 2000 nt UTR 1 hits 566

-----1-----

>ENSRNOG00000018267 hs-let-7a 566 573

UGAGGUAGUAGGUUGUAUAGUU&CUUCUCUCGUCCAGAAGCCUGACUGGCCACUCUGACUACCUCAG

(((((((((.((((.((((.&.....))))).))))).))))).))))). -25.20

let-7a SINFRUG00000151687 2000 nt UTR 1 hits 749

-----1-----

>SINFRUG00000151687 hs-let-7a 749 756
UGAGGUAGUAGGUUGUAUAGUU&AUAGGUUAAAGCCGAGAAGGAAAUGAAUAACACUCUACCUCAG
(((((((((((((.....&.....)))))))).))))). -22.00

miRNA: let-7a

Human predicted target: ENSG00000168758

Mouse predicted target: ENSMUSG00000026121

Rat predicted target: ENSRNOG00000016254

Fugu predicted target: SINFRUG00000125424

Hs Gene description: SEMA DOMAIN, IMMUNOGLOBULIN DOMAIN (IG),
TRANSMEMBRANE DOMAIN TM. [Source:RefSeq;Acc:NM_017789] NM_017789

let-7a ENSG00000168758 2884 nt UTR 1 hits 67

--1-----

>ENSG00000168758 hs-let-7a 67 74
UGAGGUAGUAGGUUGUAUAGUU&GGGAGGUGUAGCUCCUACUUUUGCACAGGCACCAGCUACCUCAG
(((((((((((((.....&.....)))))))).))))). -24.70

let-7a ENSMUSG00000026121 2000 nt UTR 1 hits 74

--1-----

>ENSMUSG00000026121 hs-let-7a 74 81
UGAGGUAGUAGGUUGUAUAGUU&GGGAGGUGCACUCUUAACUUUUGCACAGGCACCAGCUACCUCAG
(((((((((((((.....&.....)))))))).))))). -25.50

let-7a ENSRNOG00000016254 2862 nt UTR 1 hits 75

--1-----

>ENSRNOG00000016254 hs-let-7a 75 82
UGAGGUAGUAGGUUGUAUAGUU&GGGAGGUGCACUCUUAACUUUUGCACAGGCACCAGCUACCUCAG
((((((((((..(((((((..(((((&.....))))))..))))..))))..))))..))))..))))..)))).. -25.50

let-7a SINFRUG00000125424 2000 nt UTR 1 hits 57

--1-----

>SINFRUG00000125424 hs-let-7a 57 64
UGAGGUAGUAGGUUGUAUAGUU&UCAUGUCUGCAAGUCAGAAAAACAAAACAACCAAUCUACCUC
..((((((((((..(((((((..(((((&.....))))))..))))..))))..))))..))))..)))).. -23.50

miRNA: let-7a

Human predicted target: ENSG00000169635

Mouse predicted target: ENSMUSG00000050240

Rat predicted target: ENSRNOG00000001863

Fugu predicted target: SINFRUG00000140659

Hs Gene description: HYPERMETHYLATED IN CANCER 2 PROTEIN (HIC-2) (HIC-3)
(HIC1-RELATED GENE ON CHROMOSOME 22). [Source:SWISSPROT;Acc:Q96JB3]

let-7a ENSG00000169635 2050 nt UTR 3 hits 211 543 1158

-----1-----1-----1-----

>ENSG00000169635 hs-let-7a 211 218
UGAGGUAGUAGGUUGUAUAGUU&AGCCGAGAGGAGGGAAGCCAGGGGUCCCAGCCCGUCUACCUC
..((((((((((..(((((((.....&.....))))))..))))..))))..))))..)))).. -22.00

>ENSG00000169635 hs-let-7a 543 550
UGAGGUAGUAGGUUGUAUAGUU&CACUGGCGCUGGGACAGUCAGGGUGACCCCACCGCCUACCUCU
.((((((((((..((((((..(((((.&.....))))))..)))).....))))..)))))))). -21.53

>ENSG00000169635 hs-let-7a 1158 1165
UGAGGUAGUAGGUUGUAUAGUU&CCUCGCUGAACAAGGUGGAGACUUCUGACCUUUUGCUACCUCU
.((((((((((((((..((((((..(((((&.....)))))).....))))..))))))..)))))))). -23.20

let-7a ENSMUSG00000050240 2000 nt UTR 3 hits 307 635 1286
-----1-----1-----1-----1-----

>ENSMUSG00000050240 hs-let-7a 307 314
UGAGGUAGUAGGUUGUAUAGUU&AGUCUAGCCCUAUGCAUGUGGUGCUGGUGACUAUUCUACCUCU
.((((((((((..((((((..(((((.&.....))))))..)))).....))))..)))))))). -20.80

>ENSMUSG00000050240 hs-let-7a 635 642
UGAGGUAGUAGGUUGUAUAGUU&UAGCUGGCACUGGAACAGUCAGGGUGACCCAUUGCCUACCUCU
.((((((((((((((..((((((..(((((&..)))))).....))))..))))..))))))..)))))))). -19.17

>ENSMUSG00000050240 hs-let-7a 1286 1293
UGAGGUAGUAGGUUGUAUAGUU&CUCACUGAACAUGGUGGGGAGCCUUCUGACCUUUUGCUACCUCU
.((((((((((((((..((((((..(((((.&...))))))..)))).....))))..))))))..)))))))). -20.00

let-7a ENSRNOG00000001863 2000 nt UTR 3 hits 197 511 1139
-----1-----1-----1-----1-----

>ENSRNOG00000001863 hs-let-7a 197 204
UGAGGUAGUAGGUUGUAUAGUU&AGUCUGGCCUCUGCAUGUGGUGCUGGUGACUACUCUACCUCU
.((((((((((..((((((..(((((.&.....))))))..)))).....))))..))))))..)))))))). -20.80

>ENSRNOG00000001863 hs-let-7a 511 518

UGAGGUAGUAGGUUGUAUAGUU&UAGCUGGCACUGGAACAGUCAGGGUGACCCAUUGCCUACCUCU
.((((((((((((((..(((((&..))))).))))).))))).))))). -19.17

>ENSRNOG00000001863 hs-let-7a 1139 1146

UGAGGUAGUAGGUUGUAUAGUU&UUCACUGAACAUUGAUGGAGAGCCUUCUGACCUUUGCUACCUCU
.((((((((((((((..(((((&...))))).))))).))))).))))). -20.00

let-7a SINFRUG000000140659 2000 nt UTR 1 hits 1077

-----1-----

>SINFRUG000000140659 hs-let-7a 1077 1084

UGAGGUAGUAGGUUGUAUAGUU&AAUAGAAGUCUAUUUAUAGGCUCUAACCUUGCUACCUCU
.((((((((((((((((((((((..&.....))))))))).))))).))))). -23.10

miRNA: let-7a

Human predicted target: ENSG00000174437

Mouse predicted target: ENSMUSG00000029467

Rat predicted target: ENSRNOG00000001285

Fugu predicted target: SINFRUG000000134916

Hs Gene description: SARCOPLASMIC/ENDOPLASMIC RETICULUM CALCIUM ATPASE 2
(EC 3.6.3.8) (CALCIUM PUMP 2) (SERCA2) (SR CA(2+)-ATPASE 2) (CALCIUM-
TRANSPORTING ATPASE SARCOPLASMIC RETICULUM TYPE, SLOW TWITCH SKELETAL
MUSCLE ISOFORM) (ENDOPLASMIC RETICULUM CLASS 1/2 CA(2+) ATPASE).
[Source:SWISSPROT;Acc:P16615] NM_001681

let-7a ENSG00000174437 2856 nt UTR 1 hits 490

-----1-----

>ENSG00000174437 hs-let-7a 490 497

UGAGGUAGUAGGUUGUAUAGUU&CAUAAGCCAAUUUUUCUGCACUGAGCAGAGUCUUGCUACCUCAG

(((((((((((((((((((((((.&.....)))))))))...)))))))). -27.00

let-7a ENSMUSG00000029467 2000 nt UTR 1 hits 642

-----1-----

>ENSMUSG00000029467 hs-let-7a 642 649

UGAGGUAGUAGGUUGUAUAGUU&CAUAAGCCAAUUUUUCUGCACUGAGCAGAGUCCUGCUACCUCAG

(((((((((((((((((((((((.&.....)))))))))...)))))))). -29.70

let-7a ENSRNOG00000001285 4048 nt UTR 1 hits 494

-----1-----

>ENSRNOG00000001285 hs-let-7a 494 501

UGAGGUAGUAGGUUGUAUAGUU&CAUAAGCCAAUUUUUCUGCACUGAGCAGAGUCCUGCUACCUCAG

(((((((((((((((((((((((.&.....)))))))))...)))))))). -29.70

let-7a SINFRUG00000134916 2000 nt UTR 1 hits 658

-----1-----

>SINFRUG00000134916 hs-let-7a 658 665

UGAGGUAGUAGGUUGUAUAGUU&CAUUCUGUUUGUUUUCUGCAGUCGGCAGAGCACAGCUACCUCAA

(((((((((((((((((((((((.&.....)))))))))...)))))))). -20.90

miRNA: let-7a

Human predicted target: ENSG00000174498

Mouse predicted target: ENSMUSG00000032394

Rat predicted target: ENSRNOG00000013322

Fugu predicted target: SINFRUG00000135911

Hs Gene description: SIMILAR TO PUTATIVE NEURONAL CELL ADHESION MOLECULE.
[Source:SPTREMBL;Acc:Q8IVU1]

let-7a ENSG00000174498 2458 nt UTR 4 hits 452 534 685 762

-----1--1-----1--1-----

>ENSG00000174498 hs-let-7a 452 459

UGAGGUAGUAGGUUGUAUAGUU&UCAGGAUGGAUUUUUGCUGUUUUGGCUCUCAGCACCUACCUCAG

((((((((...(((...((((&.....))))))..))))..))))). -22.30

>ENSG00000174498 hs-let-7a 534 541

UGAGGUAGUAGGUUGUAUAGUU&UCAGCCCCCUUACCCACAGAGCCCGAAUGCACUCCUACCUCAA

((((((((...(((...(((&.....))))))..))))..))))). -20.70

>ENSG00000174498 hs-let-7a 685 692

UGAGGUAGUAGGUUGUAUAGUU&AGCACUUCCCCAUUUCCAGAUGUGAAAGAAAUGUCUACCUCAA

((((((((...(((...(((&.....))))))..))))..))))). -17.60

>ENSG00000174498 hs-let-7a 762 769

UGAGGUAGUAGGUUGUAUAGUU&GACCUGCCUCCCCGCCCUCCUGCCCACAGCCCACCUACCUCU

.(((((((((...(((...(((&.....))))))..))))..))))). -23.50

let-7a ENSMUSG00000032394 2523 nt UTR 4 hits 388 468 633 714

-----1--1-----1--1-----

>ENSMUSG00000032394 hs-let-7a 388 395

UGAGGUAGUAGGUUGUAUAGUU&CAGGAUGGAUUUUUGAGCUGUUGUGACUCUCAGCACCUACCUCAG

((((((((...(((...((((&.....))))))..))))..))))). -22.80

>ENSMUSG00000032394 hs-let-7a 468 475

UGAGGUAGUAGGUUGUAUAGUU&CCUCCGCCUCUACCCCACAGAGCCCGAAAGCACUCCUACCUCAA
(((((((((((((.....(((&.....)))))).....)))))). -20.30

>ENSMUSG00000032394 hs-let-7a 633 640

UGAGGUAGUAGGUUGUAUAGUU&ACCACUGUCCCAACUCCAAGUGUGAAAGAAACUGUCUACCUCAG
(((((((((((((((((((((.....(((&.....)))))).....)))))). -20.92

>ENSMUSG00000032394 hs-let-7a 714 721

UGAGGUAGUAGGUUGUAUAGUU&GACCCUCCCCCAGCCUCCUUCAUCCUGGCCUAGCCUACCUCU
(((((((((((((((((((((.....&.....)))))).....)))))). -21.40

let-7a ENSRNOG00000013322 2000 nt UTR 4 hits 470 550 703 788

-----1--1-----1--1-----

>ENSRNOG00000013322 hs-let-7a 470 477

UGAGGUAGUAGGUUGUAUAGUU&CUCAGGAUGGAUUUUUAGCUGUUGUGACUCAGCACCUACCUCAG
(((((((((((((.....((((((&.....)))))).....)))))). -22.50

>ENSRNOG00000013322 hs-let-7a 550 557

UGAGGUAGUAGGUUGUAUAGUU&CCUCAGCCUCUACCCCACAGAGCCCGAAAGCACUCCUACCUCAA
(((((((((((((.....(((&.....)))))).....)))))). -20.30

>ENSRNOG00000013322 hs-let-7a 703 710

UGAGGUAGUAGGUUGUAUAGUU&ACCACUGUCCCAACUCCAAGUGUGAAAGAAACUGUCUACCUCAA
(((((((((((((((((((((.....(((&.....)))))).....)))))). -20.92

>ENSRNOG00000013322 hs-let-7a 788 795

UGAGGUAGUAGGUUGUAUAGUU&CUCCUUGGCCUCCUCCUCCUCCUGGCCUGGCCUGGCCUACCUCU
(((((((((((((((((((((.....&.....)))))).....)))))). -21.80

let-7a SINFRUG000000135911 2000 nt UTR 3 hits 1368 1451 1562

-----1--1--1-----

>SINFRUG00000135911 hs-let-7a 1368 1375
UGAGGUAGUAGGUUGUAUAGUU&CUUGGCUGUGUGAAACUUAGCGAUUCAACUAAAACCUACCUCAG
(((((((((((((((((.&...)))))))))...))))). -22.19

>SINFRUG00000135911 hs-let-7a 1451 1458
UGAGGUAGUAGGUUGUAUAGUU&ACUUCUCACCUUAAAUGACCAGAUCAAGGCGCCGCGCUACCUCAG
(((((((((((((((((.&...)))))))))...))))). -23.00

>SINFRUG00000135911 hs-let-7a 1562 1569
UGAGGUAGUAGGUUGUAUAGUU&ACAUAAGCACUCCAAAUGCUGAAGUUAUGUUCUACCUCAC
(((((((((((((((((.&...)))))))))...))))). -19.80

miRNA: mir-7

Human predicted target: ENSG00000139219

Mouse predicted target: ENSMUSG00000022483

Rat predicted target: ENSRNOG00000008809

Fugu predicted target: SINFRUG00000135764

Hs Gene description: COLLAGEN ALPHA 1(II) CHAIN PRECURSOR [CONTAINS:
CHONDROCALCIN]. [Source:SWISSPROT;Acc:P02458]

mir-7 ENSG00000139219 2439 nt UTR 2 hits 217 2416

-----1-----
-----1-----

>ENSG00000139219 hs-mir-7 217 224
UGGAAGACUAGUGAUUUUGUU&UGCAAAAUAAAUCUCGGUGUUCUAUUUAUUUAUUGUCUCCU
(((((((((((((((((.&...)))))))))...))))). -19.60

>ENSG00000139219 hs-mir-7 2416 2423
UGGAAGACUAGUGAUUUUGUU&GGCUGGCAGGUCUGUGCUCCCUGUGCCGCUUCCUUGUCUCCU
.(((((((((((((.....&.....)))))).....))))). -18.60

mir-7 ENSMUSG00000022483 2205 nt UTR 2 hits 217 1514
-----1-----1-----

>ENSMUSG00000022483 hs-mir-7 217 224
UGGAAGACUAGUGAUUUUGUU&UGCAAAAUAAAUCUCGGUGUUCUAUUUAUUUAUUGUCUCCU
.(((((((((((((.....&.....)))))).....))))). -19.60

>ENSMUSG00000022483 hs-mir-7 1514 1521
UGGAAGACUAGUGAUUUUGUU&CCUUCUCUGUAUUCUCCAGAUAGGAAUGGAAAGUCUCCCC
.(((((((((((((.....&.....)))))).....))))). -19.40

mir-7 ENSRNOG00000008809 3494 nt UTR 2 hits 1271 1592
-----1-----1-----

>ENSRNOG00000008809 hs-mir-7 1271 1278
UGGAAGACUAGUGAUUUUGUU&UGCAAAAUAAAUCUCGAAGUUCUAUUUAUUUAUUGUCUCCU
.(((((((((((((.....&.....)))))).....))))). -19.60

>ENSRNOG00000008809 hs-mir-7 1592 1599
UGGAAGACUAGUGAUUUUGUU&ACCCUGAGCAUCUCCUGCUACCCAAAAGGCUUGGGGUCUCCU
.(((((((((((((.....&.....)))))).....))))). -20.40

mir-7 SINFRUG00000135764 2000 nt UTR 1 hits 398
-----1-----

>SINFRUG00000135764 hs-mir-7 398 405

UGGAAGACUAGUGAUUUUGUU&CAGGAAAUGAACUCAACUAAGAAACAUAUACACAGUCUCCAU

(((((((((.((((((.((((&.....))))).)))..)))))))). -24.30

miRNA: mir-9

Human predicted target: ENSG00000119547

Mouse predicted target: ENSMUSG00000045991

Rat predicted target: ENSRNOG00000018299

Fugu predicted target: SINFRUG00000154314

Hs Gene description: ONE CUT DOMAIN FAMILY MEMBER 2 (ONECUT-2
TRANSCRIPTION FACTOR) (OC-2). [Source:SWISSPROT;Acc:O95948] NM_004852

mir-9 ENSG00000119547 2109 nt UTR 4 hits 1273 1296 1671 2033

-----11-----1-----
-----1---

>ENSG00000119547 hs-mir-9 1273 1280

UCUUUGGUUAUCUAGCUGUAUGA&AAAACAGCUGAAUACAUCUGGAGAAAACACAGCACACCAAAGAA

(((((((((.((((((.((((&.....))))).)))..)))))))). -
21.66

>ENSG00000119547 hs-mir-9 1296 1303

UCUUUGGUUAUCUAGCUGUAUGA&AAAACACAGCACACCAAAGAAGCAGAAUACUGCAAACCAAAGAC

(((((((((.((((((.((((&.....))))).)))..)))))))). -
18.20

>ENSG00000119547 hs-mir-9 1671 1678

UCUUUGGUUAUCUAGCUGUAUGA&UUGAGACUGACUUUUUUAUGAAUACUAGUCGAAACCAAAGAA

(((((((((.((((((.((((&.....))))).)))..)))))))). -
17.60

>ENSG00000119547 hs-mir-9 2033 2040

UCUUUGGUUAUCUAGCUGUAUGA&CGGAACAGAGCAACAGAAACCUCAACAGCUACAAUACCAAAGAU

(((((.....(((((((.&.....)))))))))).....))))). -
25.40

mir-9 ENSMUSG00000045991 2000 nt UTR 3 hits 1316 1339 1717

-----11-----1-----

>ENSMUSG00000045991 hs-mir-9 1316 1323

UCUUUGGUUAUCUAGCUGUAUGA&AAUACAGCUGACAGAACCUGGAGAGAACACAGCACACCAAAGAA

(((((.....(((((((.&.....)))))))))).....))))). -
21.95

>ENSMUSG00000045991 hs-mir-9 1339 1346

UCUUUGGUUAUCUAGCUGUAUGA&AGAACACAGCACACCAAAGAAGCAGAAUACUGCAAACCAAAGAC

(((((.....(((((((.&.....))))))..))..))))). -
18.20

>ENSMUSG00000045991 hs-mir-9 1717 1724

UCUUUGGUUAUCUAGCUGUAUGA&UUGAGACUGACUUUUGUAUGAAUUGCUUAAUUGAAACCAAAGAA

(((((.....(((((((.&.....)))))).....))))). -
18.50

mir-9 ENSRNOG00000018299 2000 nt UTR 3 hits 1294 1318 1702

-----11-----1-----

>ENSRNOG00000018299 hs-mir-9 1294 1301

UCUUUGGUUAUCUAGCUGUAUGA&AAAACAGCCGACGGAAUCUGGAGAGAACACAGCACACCAAAGAA

(((((.....(((((((.&.....))))))..))..))))). -
19.50

>ENSRNOG00000018299 hs-mir-9 1318 1325

UCUUUGGUUAUCUAGCUGUAUGA&GAACACAGCACACCAAAGAAGCAGAAUUCUGCAAACCAAAGAU

((((((((((.....((((.....&.....)))))).....)))))))). -
17.81

>ENSRNOG00000018299 hs-mir-9 1702 1709

UCUUUGGUUAUCUAGCUGUAUGA&UUGAGACUGACUUUUGUAUGAAUUAUUGAAACCAAAGAA

((((((((((.....((((.....&.....)))))).....)))))))). -
16.70

mir-9 SINFRUG00000154314 2000 nt UTR 5 hits 527 549 1155 1622 1770

-----2-----1-----1-----1-----

>SINFRUG00000154314 hs-mir-9 527 534

UCUUUGGUUAUCUAGCUGUAUGA&UCAAGUUUGGCGGAUGCACAGUCAGGAAUCACCAAACCAAAGC

.((((((((((.....((((.....&.....)))))).....)))))))). -17.60

>SINFRUG00000154314 hs-mir-9 549 556

UCUUUGGUUAUCUAGCUGUAUGA&CAGGAAUCACCAAACCAAAGCUUAGCUAAAGAUUAACCAAAGC

.((((((((((((((((.....&.....)))))).....)))))))). -21.10

>SINFRUG00000154314 hs-mir-9 1155 1162

UCUUUGGUUAUCUAGCUGUAUGA&UCCCCAAGAUUCCUAUUUUAUUCACAGCAACAGCACCAAAGAA

((((((((((.....((((.....&.....)))))).....)))))))). -
21.10

>SINFRUG00000154314 hs-mir-9 1622 1629

UCUUUGGUUAUCUAGCUGUAUGA&CAUCCUCACUCGAGCUAUAACCAAAGAAUCAAACCAAAGGA

((((((((((.....((((((((.....&.....)))))).....)))))))). -
17.20

>SINFRUG00000154314 hs-mir-9 1770 1777

UCUUUGGUUAUCUAGCUGUAUGA&CACUUGAGACUUUUCUAUUUAUUGACAAAUCGAAACCAAAGAA

((((((((((.....((((.....&.....)))))).....)))))))). -
17.00

miRNA: mir-9

Human predicted target: ENSG00000119946

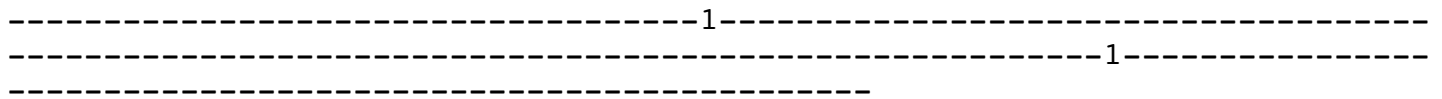
Mouse predicted target: ENSMUSG00000025189

Rat predicted target: ENSRNOG00000016302

Fugu predicted target: SINFRUG00000123133

Hs Gene description: CYCLIN M1; ANCIENT CONSERVED DOMAIN PROTEIN 1.
[Source:RefSeq;Acc:NM_020348]

mir-9 ENSG00000119946 4814 nt UTR 2 hits 901 3281



>ENSG00000119946 hs-mir-9 901 908

UCUUUGGUUAUCUAGCUGUAUGA&ACUGUAAGUGCUGAAAGCAAGUUUAGCCAUGACAAACCAAAGAG

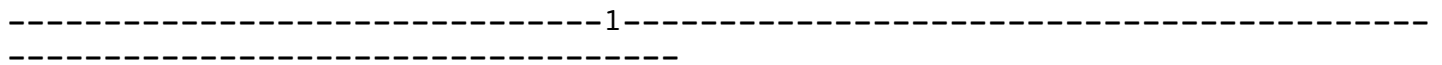
(((((((((((((.....&.....))))))....))..)))))).. -
19.10

>ENSG00000119946 hs-mir-9 3281 3288

UCUUUGGUUAUCUAGCUGUAUGA&AAGGAGUCCAAGUGGCAUGACUCUGGCAGUUUGCAACCAAAGGC

(((((((((((((.....(((((((((.....&.....))))))....))..))))))..)))))).. -
20.40

mir-9 ENSMUSG00000025189 2710 nt UTR 1 hits 776



>ENSMUSG00000025189 hs-mir-9 776 783

UCUUUGGUUAUCUAGCUGUAUGA&AUUGUAAGUUGUUAUUUUUGUGUAGCCAUGAUAAACCAAAGAG

(((((((((((((((.....(((((((((.....&.....))))))....))..))))))..)))))).. -
22.90

mir-9 ENSRNOG00000016302 2000 nt UTR 1 hits 768

-----1-----

>ENSRNOG00000016302 hs-mir-9 768 775

UCUUUGGUUAUCUAGCUGUAUGA&GAUUGUAAGUUGUUCAGUUUGUGUAGCCAUGAUAAACCAAAGAG

(((((((((((((..((((((..(&.....).)))))..))))..))))..)))).. -
22.90

mir-9 SINFRUG00000123133 2000 nt UTR 1 hits 1622

-----1-----

>SINFRUG00000123133 hs-mir-9 1622 1629

UCUUUGGUUAUCUAGCUGUAUGA&AUGUUCACAGGUGGAGCCCUGAUGAAGUUAGAUGGACCAAAGU

.(((((((((((((((..((((((..(&.....).)))))..))))..))))..)))).. -23.20

miRNA: mir-9

Human predicted target: ENSG00000157978

Mouse predicted target: ENSMUSG00000037295

Rat predicted target: ENSRNOG00000000151

Fugu predicted target: SINFRUG00000138412

Hs Gene description: LDL RECEPTOR ADAPTOR PROTEIN.

[Source:RefSeq;Acc:NM_015627] NM_015627

mir-9 ENSG00000157978 3898 nt UTR 4 hits 45 355 588 2637

-1-----1-----1-----
-----1-----

>ENSG00000157978 hs-mir-9 45 52

UCUUUGGUUAUCUAGCUGUAUGA&GCCAGCCGGACACAAGCGGCCUGACACGUGAUGGACCAAAGC
.(((((((((((...((((((...&.....)))))).....)))))))). -20.40

>ENSG00000157978 hs-mir-9 355 362

UCUUUGGUUAUCUAGCUGUAUGA&CAAGCUCUGCCCUGGCUGUGGGUAUCAGGACUGUGACCAAAGC
.(((((((((((...((((((...&.....)))))).....)))))))). -18.60

>ENSG00000157978 hs-mir-9 588 595

UCUUUGGUUAUCUAGCUGUAUGA&ACCCAGGCUCUAGAGACUAAGGGGCAGCUCCUGACCAAAGAC
(((((((((((...((((((...&.....)))))).....)))))))). -
25.30

>ENSG00000157978 hs-mir-9 2637 2644

UCUUUGGUUAUCUAGCUGUAUGA&UUGGUAGAACACUUGUGCAUUCAGGUUAUCUCAGAACCAAAGGC
(((((((((((...((((((...&.....)))))).....)))))))). -
18.80

mir-9 ENSMUSG00000037295 3630 nt UTR 4 hits 294 462 791 906

-----1-----1-----1----1-----

>ENSMUSG00000037295 hs-mir-9 294 301

UCUUUGGUUAUCUAGCUGUAUGA&CAGUGCCCCUCCUGCUGUGGGCGUCAGGACAAUGACCAAAGC
.(((((((((((...((((((...&.....)))))).....)))))))). -19.30

>ENSMUSG00000037295 hs-mir-9 462 469

UCUUUGGUUAUCUAGCUGUAUGA&CCGAGUAACUGAGGCUCUCAGAGAGGCAGCCCUGACCAAAGAC
(((((((((((...((((((...&.....)))))).....)))))))). -
23.80

>ENSMUSG00000037295 hs-mir-9 791 798

UCUUUGGUUAUCUAGCUGUAUGA&UCCAUUUUCUGCUUCCCCACAAUCCUGGGAUGAUACCAAAGC
.(((((((((((...((((((...&.....)))))).....)))))))). -16.16

>ENSMUSG00000037295 hs-mir-9 906 913
UCUUUGGUUAUCUAGCUGUAUGA&GAGGGGUGGAGUUGAGAACAGAACCCAGAUCUGAUACCAAAGC
.(((((((.((((...(((.....&.....))))))....)))))))). -17.20

mir-9 ENSRNOG00000000151 2000 nt UTR 3 hits 310 478 917
-----1-----1-----1-----

>ENSRNOG00000000151 hs-mir-9 310 317
UCUUUGGUUAUCUAGCUGUAUGA&GAGCCAGUAUCCCCGCUGUGGGUGUCCAGACAAUGACCAAAGU
.(((((((.((((...(((.....&.....))))))....)))))))). -18.40

>ENSRNOG00000000151 hs-mir-9 478 485
UCUUUGGUUAUCUAGCUGUAUGA&CUGAGAAGCUGAGGCUUUCAAAGAGGCAGCCCCUGACCAAAGAC
(((((((.((((...(((.....&.....))))))....)))))))). -
22.80

>ENSRNOG00000000151 hs-mir-9 917 924
UCUUUGGUUAUCUAGCUGUAUGA&GGGCGGUGGAGUUGAGAAUAGAACCCAGAUCUGAUACCAAAGC
.(((((((.((((...(((.....&.....))))))....)))))))). -17.20

mir-9 SINFRUG00000138412 2000 nt UTR 1 hits 1856

1-----

>SINFRUG00000138412 hs-mir-9 1856 1863
UCUUUGGUUAUCUAGCUGUAUGA&CAGCGCUCCCGCUAGCAGGGCCAAACAGCCGACGAACCAAAGAC
(((((((.((((...(((.....&.....))))))....)))))))). -
24.30

miRNA: mir-18

Human predicted target: ENSG00000137104

Mouse predicted target: ENSMUSG00000036073

Rat predicted target: ENSRNOG00000014766

Fugu predicted target: SINFRUG00000126591

Hs Gene description: GALACTOSE-1-PHOSPHATE URIDYLTRANSFERASE (EC 2.7.7.10). [Source:SWISSPROT;Acc:P07902] NM_147132

mir-18 ENSG00000137104 2000 nt UTR 1 hits 1437

-----1-----

>ENSG00000137104 hs-mir-18 1437 1444

UAAGGUGCAUCUAGUGCAGAUAG&GCCCUCCUUCUUCUUUAUCUUAUCUGGAGUCAGGGGCACCUUC

.(((((((..(((.(.((((((&.....)))))).).)).)))).). -24.10

mir-18 ENSMUSG00000036073 2000 nt UTR 1 hits 1534

-----1-----

>ENSMUSG00000036073 hs-mir-18 1534 1541

UAAGGUGCAUCUAGUGCAGAUAG&AACCCCUCCUUCUUCUUUAUCUUAUCUGGAGUCAGGGGCACCUUC

.(((((((..(((.(.((((((&.....)))))).).)).)))).). -24.10

mir-18 ENSRNOG00000014766 2000 nt UTR 1 hits 1591

-----1-----

>ENSRNOG00000014766 hs-mir-18 1591 1598

UAAGGUGCAUCUAGUGCAGAUAG&CCAACCACUGCCCCUUCUUCUUUAUCUUAUCUGGAGUCAGGGGCACCUUC

.(((((((..(((.(.((((((&.....)))))).).)).)))).). -24.10

mir-18 SINFRUG00000126591 2000 nt UTR 1 hits 975

-----1-----

>SINFRUG00000126591 hs-mir-18 975 982

UAAGGUGCAUCUAGUGCAGAUAG&GACGUCCCCCAGGAAGGCCAACUCUCAGCACUGCAGCACCUUC

.((((((((((...((((((...&.....))))))..)))))). -23.10

miRNA: mir-18

Human predicted target: ENSG00000146830

Mouse predicted target: ENSMUSG00000029714

Rat predicted target: ENSRNOG00000001410

Fugu predicted target: SINFRUG00000150734

Hs Gene description: PERQ AMINO ACID RICH WITH GYF DOMAIN PROTEIN 1.
[Source:SWISSPROT;Acc:O75420] NM_022574

mir-18 ENSG00000146830 3237 nt UTR 1 hits 143

-----1-----

>ENSG00000146830 hs-mir-18 143 150

UAAGGUGCAUCUAGUGCAGAUAG&GGCGGGGUCCCCAGCACUUGUUACAAACACACGAUGCACCUUAA

.((((((((((...((((((...&.....))))))..)))))). -26.96

mir-18 ENSMUSG00000029714 2368 nt UTR 1 hits 161

-----1-----

>ENSMUSG00000029714 hs-mir-18 161 168

UAAGGUGCAUCUAGUGCAGAUAG&GCAGGGUCCCCAGCACUUGUUACAAACCACACGAUGCACCUUAA

.((((((((((...((((((...&.....))))))..)))))). -26.89

mir-18 ENSRNOG00000001410 2000 nt UTR 1 hits 150

-----1-----

>ENSRNOG00000001410 hs-mir-18 150 157

UAAGGUGCAUCUAGUGCAGAUAG&GCAGGGUCCCCAGCACUUGUUACAAACCACACGAUGCACCUUAA

(((((.....&.....))))). -26.89

mir-18 SINFRUG00000150734 2000 nt UTR 1 hits 1570

-----1-----

>SINFRUG00000150734 hs-mir-18 1570 1577

UAAGGUGCAUCUAGUGCAGAUAG&GGAAGAUGGGUAUCCUCUGGCACUCAAAAGAUUAAGCACCUUAC

(((((.....&.....))))). -25.40

miRNA: mir-19a

Human predicted target: ENSG00000069345

Mouse predicted target: ENSMUSG00000031701

Rat predicted target: ENSRNOG00000016251

Fugu predicted target: SINFRUG00000132559

Hs Gene description: DNAJ HOMOLOG SUBFAMILY A MEMBER 2 (HIRA INTERACTING PROTEIN 4) (CELL CYCLE PROGRESSION RESTORATION GENE 3 PROTEIN) (DNJ3).
[Source:SWISSPROT;Acc:O60884] NM_005880

mir-19a ENSG00000069345 2646 nt UTR 1 hits 471

-----1-----

>ENSG00000069345 hs-mir-19a 471 478

UGUGCAAUAUCUAGCAAACUGA&GUAUCUAUCAUUUAGAUGCAUGGAAAAAUAUGGGCUUUGCACAC

((((((((((((((((((((((((...((((&.....)))))).)))))))))).....)))))))). -
22.60

mir-19a ENSMUSG00000031701 3576 nt UTR 1 hits 446

-----1-----

>ENSMUSG00000031701 hs-mir-19a 446 453

UGUGCAAUUCUAUGCAAACUGA&CUGUAUCUAUCAUUAGAUGCAUGGAAAAAUGGGCUUUGCACAC

((((((((((((((((((((((((...((((&.....)))))).)))))))))).....)))))))). -
22.80

mir-19a ENSRNOG00000016251 3498 nt UTR 1 hits 445

-----1-----

>ENSRNOG00000016251 hs-mir-19a 445 452

UGUGCAAUUCUAUGCAAACUGA&CCUGUAUCUAUCAUUAGAUGCAUGGAAAACUGGGCUUUGCACAC

((((((((((((((((((((((((...((((&.....)))))).)))))))))).....)))))))). -
22.90

mir-19a SINFRUG00000132559 2000 nt UTR 1 hits 209

-----1-----

>SINFRUG00000132559 hs-mir-19a 209 216

UGUGCAAUUCUAUGCAAACUGA&UGAGAAACUCGCACGGGGACAGCCAGAUGCAAGGUUUUGCACU

.((((((((.(.(.(((....((.&.....)))))).)))))). -22.00

miRNA: mir-19a

Human predicted target: ENSG00000081479

Mouse predicted target: ENSMUSG00000027069

Rat predicted target: ENSRNOG00000006837

Fugu predicted target: SINFRUG00000140256

Hs Gene description: LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 2 PRECURSOR (MEGALIN) (GLYCOPROTEIN 330) (GP330). [Source:SWISSPROT;Acc:P98164]

mir-19a ENSG00000081479 2000 nt UTR 2 hits 38 209

-1-----1-----

>ENSG00000081479 hs-mir-19a 38 45

UGUGCAAUUCUAUGCAAACUGA&AUACCAGCUAUUUAGGGAAUAAUAGAAACACACUUUUGCACAU

(((((.....(((&.....)))).....)))).....)))). -
15.66

>ENSG00000081479 hs-mir-19a 209 216

UGUGCAAUUCUAUGCAAACUGA&UACAAUAAUUAUCACAAUGUACUAUAUGUAUAUCUUUGCACU

.(((((((.....&.....)))).....)))). -19.20

mir-19a ENSMUSG00000027069 2094 nt UTR 2 hits 38 1972

-1-----1-----
-----1-----

>ENSMUSG00000027069 hs-mir-19a 38 45

UGUGCAAUUCUAUGCAAACUGA&UUGCCAACUCUCUAGGGAACAUUUAGACACUCACUUUUGCACAU

(((((.....((.&.....)))).....)))).....)))). -
15.06

>ENSMUSG00000027069 hs-mir-19a 1972 1979

UGUGCAAUUCUAUGCAAACUGA&GAACAUUCUUGUUUCAGAAAAGGUGAAGAGCUCCUUUGCACAG

(((((.....(((&.....)))).....)))).....)))). -
17.90

mir-19a ENSRNOG00000006837 2097 nt UTR 3 hits 41 673 1690

-1-----1-----1-----

>ENSRNOG00000006837 hs-mir-19a 41 48

UGUGCAAUUCUAUGCAAACUGA&UCGCCAGCUCUCUAGGGAACAUUUAGACACUCACUUUUGCACAU

(((((.....((.&.....)).....)).....)).....)).....). -
15.06

>ENSRNOG00000006837 hs-mir-19a 673 680

UGUGCAAUUCUAUGCAAACUGA&UUGAUUGUGCUUCGUCCCUAGUUGCCAAGUCAACAUUUGCACC

.(((((((.....((.&.....)).....)).....)).....)).....). -15.80

>ENSRNOG00000006837 hs-mir-19a 1690 1697

UGUGCAAUUCUAUGCAAACUGA&GAACAUUCUUGUUUCAGAAAAAGGUGGAGAGUCCCUUGCACAA

(((((.....((.&.....)).....)).....)).....)).....). -
18.21

mir-19a SINFRUG00000140256 2000 nt UTR 2 hits 46 223

-1-----1-----

>SINFRUG00000140256 hs-mir-19a 46 53

UGUGCAAUUCUAUGCAAACUGA&GCCAGAGACGGGAAUCGAAAGCAGAAGAGACACACUUUGCACAG

(((((.....((.&.....)).....)).....)).....)).....). -
18.40

>SINFRUG00000140256 hs-mir-19a 223 230

UGUGCAAUUCUAUGCAAACUGA&UGUUUUCUAUUACUCUGAUGUACUAUGUGUAUAUCUUUGCACU

.(((((((.....((.&.....)).....)).....)).....)).....). -19.10

miRNA: mir-19a

Human predicted target: ENSG00000113300

Mouse predicted target: ENSMUSG00000020362

Rat predicted target: ENSRNOG0000002803

Fugu predicted target: SINFRUG00000136719

Hs Gene description: KIAA1194. [Source:RefSeq;Acc:NM_015455] NM_015455

mir-19a ENSG00000113300 2000 nt UTR 2 hits 219 615

-----1-----1-----

>ENSG00000113300 hs-mir-19a 219 226

UGUGCAAUUCUAUGCAAACUGA&AAUAUGC UUUAUACUGCUAGACAGGGAUUGGUGUGUUUGCACC

.(((((((((((((.((((.((((.((((.&.....))))).)))..))))).))))). -19.10

>ENSG00000113300 hs-mir-19a 615 622

UGUGCAAUUCUAUGCAAACUGA&UAAAAGAAGCUGCAACAGACUUUCUCUGCUCAUGAUUUGCACU

.(((((((((((((.((((.((((.((((.&.....))))).)))..))))).))))). -20.90

mir-19a ENSMUSG00000020362 5687 nt UTR 2 hits 309 607

-----1-----1-----

>ENSMUSG00000020362 hs-mir-19a 309 316

UGUGCAAUUCUAUGCAAACUGA&GCCUUGAAAUAAGGAAGAUGUGUGAGCAGUGUGCUGUUUGCACAG

(((((((((((((((.((((.((((.((((.&.....))))).)))..))))).))))). -
22.10

>ENSMUSG00000020362 hs-mir-19a 607 614

UGUGCAAUUCUAUGCAAACUGA&GGUAACAAAGCUGCAUCCGACUUUCUCUGCAGUGAUUUGCACU

.(((((((((((((.((((.((((.((((.&.....))))).)))..))))).))))). -22.50

mir-19a ENSRNOG0000002803 2000 nt UTR 2 hits 319 611

-----1-----1-----

>ENSRNOG00000002803 hs-mir-19a 319 326

UGUGCAAUUCUAUGCAAACUGA&UGCCUUGAAAUAGGAAGAUGUGUGAACAGUGUGUGUUUGCACAG

(((((((((.....(((.....&.....)))))).)))))))). -
20.20

>ENSRNOG00000002803 hs-mir-19a 611 618

UGUGCAAUUCUAUGCAAACUGA&GGUAACAAAGUUGCAUCAGACUUUCUCUGCAGUGAUUUGCACU

.((((((((.....(((.....&.....)))))).)))))). -22.80

mir-19a SINFRUG00000136719 2000 nt UTR 2 hits 196 1751

-----1-----1-----

>SINFRUG00000136719 hs-mir-19a 196 203

UGUGCAAUUCUAUGCAAACUGA&CCCUUUCUUGCUCCUUUUUUGGGGUUUUUUUUUUUUUGCACAC

(((((((((.....(((.....&.....)))))).)))))))). -
17.32

>SINFRUG00000136719 hs-mir-19a 1751 1758

UGUGCAAUUCUAUGCAAACUGA&UUUCCUGGCCCGGACGGGUAGCAUCGCUCGCUUCGUUUGCACAU

(((((((((.....(((.....&.....)))))).)))))). -
19.00

miRNA: mir-19a

Human predicted target: ENSG00000164463

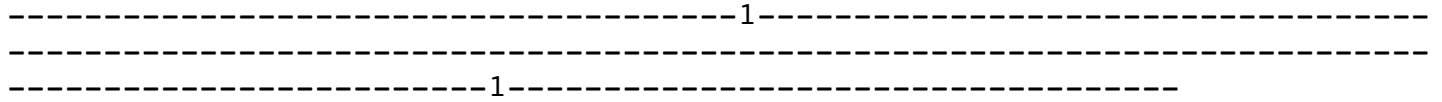
Mouse predicted target: ENSMUSG00000048249

Rat predicted target: ENSRNOG00000020769

Fugu predicted target: SINFRUG00000139862

Hs Gene description: ADULT RETINA PROTEIN. [Source:RefSeq;Acc:NM_153607]
NM_153607

mir-19a ENSG00000164463 5222 nt UTR 2 hits 959 4350



>ENSG00000164463 hs-mir-19a 959 966

UGUGCAAUUCUAUGCAAACUGA&CAACUGAUUUGGCAAACUGCCAGUCUAAGUAAAGUUUUGCACAG

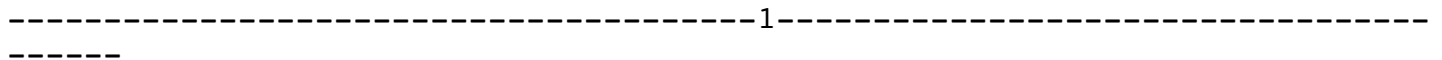
(((((((((((((.....&.....)))))).....))))). -
21.30

>ENSG00000164463 hs-mir-19a 4350 4357

UGUGCAAUUCUAUGCAAACUGA&ACCAUUUCCCAUGGAACUGAGGCCAUUCCACAACUUUGCACAG

((((((((((((.....&.....)))))).....))))). -
16.75

mir-19a ENSMUSG00000048249 2000 nt UTR 1 hits 991

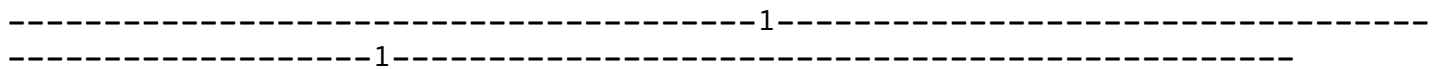


>ENSMUSG00000048249 hs-mir-19a 991 998

UGUGCAAUUCUAUGCAAACUGA&CAACUGGUAUGGCAGACUGCCAGUCUAAGUAAAGUUUUGCACAG

(((((((((((((.....&.....)))))).....))))). -
21.30

mir-19a ENSRNOG00000020769 3521 nt UTR 2 hits 999 2340



>ENSRNOG00000020769 hs-mir-19a 999 1006

UGUGCAAUUCUAUGCAAACUGA&CAACUGGUAUGGCAGACUGCCAGUCUAAGUAAAGUUUUGCACAG

(((((((((((((.....&.....)))))).....))))). -
21.30

>ENSRNOG00000020769 hs-mir-19a 2340 2347

UGUGCAAUUCUAUGCAAACUGA&CAACUGGUAUGGCAGACUGCCAGUCUAAGUAAAGUUUUGCACAG

(((((((((((((.....(((&.....)))))).....)))))))). -
21.30

mir-19a SINFRUG00000139862 2000 nt UTR 2 hits 1514 1592

-----1--1-----

>SINFRUG00000139862 hs-mir-19a 1514 1521

UGUGCAAUUCUAUGCAAACUGA&AGAUUAUUUGUUUAAAGUUACAGAAAAAAAAAUUUUGCACAC

((((((((((.....(((&.....)))))).....)))))))). -
16.65

>SINFRUG00000139862 hs-mir-19a 1592 1599

UGUGCAAUUCUAUGCAAACUGA&GCAACGAAAUGGCGACCAGCCAGUUAAAGUAAAGUUUUGCACAG

(((((((((((((.....(((&.....)))))).....)))))))). -
22.60

miRNA: mir-19a

Human predicted target: ENSG00000171150

Mouse predicted target: ENSMUSG00000037104

Rat predicted target: ENSRNOG00000015163

Rat predicted target: ENSRNOG00000015169

Fugu predicted target: SINFRUG00000141543

Hs Gene description: CYTOKINE INDUCIBLE SH2-CONTAINING PROTEIN 5
(SUPPRESSOR OF CYTOKINE SIGNALING 5) (SOCS-5) (CYTOKINE-INDUCIBLE SH2
PROTEIN 6) (CIS-6). [Source:SWISSPROT;Acc:075159] NM_014011

mir-19a ENSG00000171150 4640 nt UTR 1 hits 1212

-----1-----

>ENSG00000171150 hs-mir-19a 1212 1219
UGUGCAAUUCUAUGCAAACUGA&UACUGAACUGAAUUUACAGUUCUGUCCUAGACAUUUUGCACU
.(((((((((((.(((.(((((.&.....))))).)))..))))..))))). -22.50
mir-19a ENSMUSG00000037104 2000 nt UTR 1 hits 1132

-----1-----

>ENSMUSG00000037104 hs-mir-19a 1132 1139
UGUGCAAUUCUAUGCAAACUGA&CGUGUUGGACUGUGUUCGCCGUUCUGUCCUAGCCAUUUUGCACU
.(((((((((((.(((.(((((.&.....))))).)))..))))..))))). -21.20
mir-19a ENSRNOG00000015163 2000 nt UTR 1 hits 1109

-----1-----

>ENSRNOG00000015163 hs-mir-19a 1109 1116
UGUGCAAUUCUAUGCAAACUGA&AGUGUUGGACUGUGUUCUCAGUUUUGUCCUAGACCUUUGCACU
.(((((((((((.(((((((((&.....))))))))).)))..))))). -26.80
mir-19a ENSRNOG00000015169 2000 nt UTR 1 hits 1109

-----1-----

>ENSRNOG00000015169 hs-mir-19a 1109 1116
UGUGCAAUUCUAUGCAAACUGA&AGUGUUGGACUGUGUUCUCAGUUUUGUCCUAGACCUUUGCACU
.(((((((((((.(((((((((&.....))))))))).)))..))))). -26.80
mir-19a SINFRUG00000141543 2000 nt UTR 1 hits 559

-----1-----

>SINFRUG00000141543 hs-mir-19a 559 566

UGUGCAAUUCUAUGCAAACUGA&GACGGCGCUACACCAGGCACAGUCGUUGCUCUCUUUUUGCACAC

((((((((.....((((((.....)))))).....)))))).. -
22.60

miRNA: mir-20

Human predicted target: ENSG00000109189

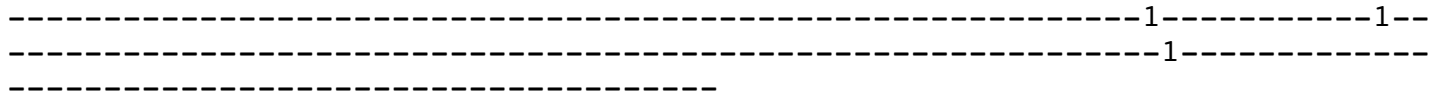
Mouse predicted target: ENSMUSG00000048255

Rat predicted target: ENSRNOG00000002106

Fugu predicted target: SINFRUG00000123610

Hs Gene description: NM_022832

mir-20 ENSG00000109189 4611 nt UTR 3 hits 1488 1789 3367



>ENSG00000109189 hs-mir-20 1488 1495

UAAAGUGCUUAUAGUGCAGGUAG&AUGUUAGUGGCCAUUUUGCAACAAUGAAGAGGAUAGCACUUUAU

((((((((.....((((((.....)))))).....)))))).. -
19.21

>ENSG00000109189 hs-mir-20 1789 1796

UAAAGUGCUUAUAGUGCAGGUAG&CUGGAAGGUGAGUUUUGAUCUCUUUUUAAGGAGAGGCACUUUC

.((((((((.....&.....)))))).. -14.70

>ENSG00000109189 hs-mir-20 3367 3374

UAAAGUGCUUAUAGUGCAGGUAG&CUGUACCUUAAUUUUUUAAAUGUAACCAAUUCAAGCACUUUAA

((((((((.....((((((.....&)))))).....)))))).. -
20.01

mir-20 ENSMUSG00000048255 3996 nt UTR 2 hits 1538 1839

-----1-----
1-----

>ENSMUSG00000048255 hs-mir-20 1538 1545

UAAAGUGCUUAUAGUGCAGGUAG&UCAUCAGUGGCCAUCGUGCAGCAGUGAAGAGGAUAGCACUUUUAU

(((((.....(((.....&.....))))).)))). -
19.00

>ENSMUSG00000048255 hs-mir-20 1839 1846

UAAAGUGCUUAUAGUGCAGGUAG&UACAUGGAUGGUGAACCUUCAUUCUUUAAGGAGAGGCACUUUU

.(((.....(((.....&.....))))).)))). -19.20

mir-20 ENSRNOG00000002106 3862 nt UTR 2 hits 1404 1704

-----1-----1-----

>ENSRNOG00000002106 hs-mir-20 1404 1411

UAAAGUGCUUAUAGUGCAGGUAG&AUGUCAGUGGCCAUUUUGCAGCAACGAAGAGGAUAGCACUUUUAU

(((((.....(((.....&.....))))).)))). -
18.11

>ENSRNOG00000002106 hs-mir-20 1704 1711

UAAAGUGCUUAUAGUGCAGGUAG&UACGUUGGAGGUGAACCUUCAUUCUUCGAGGAGAGGCACUUUU

.(((.....(((.....&.....))))).)))). -19.20

mir-20 SINFRUG00000123610 2000 nt UTR 2 hits 129 1490

-----1-----1-----

>SINFRUG00000123610 hs-mir-20 129 136

UAAAGUGCUUAUAGUGCAGGUAG&UGUCCUCUUGCCUUCUGUCACCUGCAUCUGGACUGCACUUUUA

((((((((((...((((((((((...&.....)))))))).))))).))....)))))))). -
28.80

>SINFRUG00000123610 hs-mir-20 1490 1497

UAAAGUGCUUAUAGUGCAGGUAG&GAGAGCUGCAGUCUGGUGGGCUGUGACCUACGGGGGCACUUUAA

((((((((((((((((((...&.....)))))))).))))).))....)))))))). -
21.00

miRNA: mir-20

Human predicted target: ENSG00000134323

Mouse predicted target: ENSMUSG00000037169

Rat predicted target: ENSRNOG00000006308

Fugu predicted target: SINFRUG00000128278

Hs Gene description: N-MYC PROTO-ONCOGENE PROTEIN.
[Source:SWISSPROT;Acc:P04198]

mir-20 ENSG00000134323 2907 nt UTR 1 hits 859

-----1-----

>ENSG00000134323 hs-mir-20 859 866

UAAAGUGCUUAUAGUGCAGGUAG&CUUCAAAAUGUAUAUAUUUAGUGCUGCAUCUUAUAGCACUUUGA

((((((((((((((((((...&.....)))))))).))))).))....)))))))). -
24.80

mir-20 ENSMUSG00000037169 2911 nt UTR 1 hits 861

-----1-----

>ENSMUSG00000037169 hs-mir-20 861 868

UAAAGUGCUUAUAGUGCAGGUAG&CUUCAAAAUGUAUAUAUUUAGUGCUGCACCUUAGAGCACUUUGA

((((((((((...((((((...&.....))))))....)))))))). -
26.30

mir-20 ENSRNOG00000006308 2915 nt UTR 3 hits 864 1794 2048

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-----1-----

>ENSRNOG00000006308 hs-mir-20 864 871

UAAAGUGCUUAUAGUGCAGGUAG&UCAAAAUGUGUAUAUAUUUAGUGCUGCACCUUAGAGCACUUUGA

((((((((((...((((((...&.....))))))....)))))))). -
26.30

>ENSRNOG00000006308 hs-mir-20 1794 1801

UAAAGUGCUUAUAGUGCAGGUAG&UCAAAAUGUGUAUAUAUUUAGUGCUGCACCUUAGAGCACUUUGA

((((((((((...((((((...&.....))))))....)))))))). -
26.30

>ENSRNOG00000006308 hs-mir-20 2048 2055

UAAAGUGCUUAUAGUGCAGGUAG&AGCUAUUUUCAAUAGGAAUCAAUGGGUGGUA AAAAGCACUUUU

.((((((((((...((((((...&.....))))))....)))))))). -18.10

mir-20 SINFRUG00000128278 2000 nt UTR 2 hits 509 1268

-----1-----1-----

>SINFRUG00000128278 hs-mir-20 509 516

UAAAGUGCUUAUAGUGCAGGUAG&CACCAGCCUGGAAAUCAGGGACAGGGUGUCAGAGGGCACUUUGC

((((((((((...((((((...&.....))))))....)))))))). -
19.91

>SINFRUG00000128278 hs-mir-20 1268 1275

UAAAGUGCUUAUAGUGCAGGUAG&ACUUUUAAAUGUACAUAUUUAGUGCUGCAACUCAUAGCACUUUU

.((((((((((...((((((...&.....))))))....)))))))). -22.50

miRNA: mir-23a

Human predicted target: ENSG00000104725

Mouse predicted target: ENSMUSG00000022055

Rat predicted target: ENSRNOG00000013658

Fugu predicted target: SINFRUG00000121670

Hs Gene description: NEUROFILAMENT TRIPLET L PROTEIN (68 KDA NEUROFILAMENT PROTEIN) (NEUROFILAMENT LIGHT POLYPEPTIDE) (NF-L).
[Source:SWISSPROT;Acc:P07196]

mir-23a ENSG00000104725 3852 nt UTR 1 hits 264

-----1-----

>ENSG00000104725 hs-mir-23a 264 271

AUCACAUUGCCAGGGAUUUC&GCAUGGACCACGCUUAUGAGUUCAGGAUCUACGGCAAUGUGAA

.(((((((((((..((((((..&.....))))))..)))))))). -26.20

mir-23a ENSMUSG00000022055 2327 nt UTR 1 hits 256

-----1-----

>ENSMUSG00000022055 hs-mir-23a 256 263

AUCACAUUGCCAGGGAUUUC&GCAUGGUCCAUGCUUAUGAGUUCAGGAUCUAUGGCAAUGUGAA

.(((((((((((.((((((..&.....))))))..)))))))). -27.90

mir-23a ENSRNOG00000013658 2335 nt UTR 1 hits 262

-----1-----

>ENSRNOG00000013658 hs-mir-23a 262 269

AUCACAUUGCCAGGGAUUUC&GCAUGGUCCAUGCUUAUGAGUUCAGGAUCUACGGCAAUGUGAA

.(((((((((((..(((((((..&.....))))))..)))))))). -26.20

mir-23a SINFRUG00000121670 2000 nt UTR 1 hits 1308

-----1-----

>SINFRUG00000121670 hs-mir-23a 1308 1315

AUCACAUUGCCAGGGAUUUCC&GAGGGGGAAGAGCUGCAAUCCUAUUGUUUUAUGGUAUGUGAAU

(((((((((((((..(((((((..&.....))))))..)))))))). -24.40

miRNA: mir-23a

Human predicted target: ENSG00000137942

Mouse predicted target: ENSMUSG00000039735

Rat predicted target: ENSRNOG00000013798

Fugu predicted target: SINFRUG00000120809

Hs Gene description: NM_017737

mir-23a ENSG00000137942 4245 nt UTR 3 hits 1740 1829 2769

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1-----1-----

>ENSG00000137942 hs-mir-23a 1740 1747

AUCACAUUGCCAGGGAUUUCC&UUAGAUUUGAAUCUCGUUACAGGGUUAUUUAUUAUAUGUGAC

.(((((((((((..(((((((..&.....))))))..)))))))). -16.10

>ENSG00000137942 hs-mir-23a 1829 1836

AUCACAUUGCCAGGGAUUUCC&GCUAUUUUUUUUUAAAGGUUAGCAAUGAGGAGGAAAUGUGAUC

(((((((((((((..(((((((..&.....))))))..)))))))). -14.51

>ENSG00000137942 hs-mir-23a 2769 2776

Human predicted target: ENSG00000151615

Mouse predicted target: ENSMUSG00000031688

Rat predicted target: ENSRNOG00000012167

Fugu predicted target: SINFRUG00000126552

Hs Gene description: POU DOMAIN, CLASS 4, TRANSCRIPTION FACTOR 2 (BRAIN-SPECIFIC HOMEBOX/POU DOMAIN PROTEIN 3B) (BRN-3B).
[Source:SWISSPROT;Acc:Q12837] NM_004575

mir-23a ENSG00000151615 3663 nt UTR 4 hits 102 173 463 1665

-----1-1-----1-----1-----

>ENSG00000151615 hs-mir-23a 102 109

AUCACAUUGCCAGGGAUUUCC&CUUUUCACUUUUGGCGACUAGAAACAAUUCAGUAAAUGUGAA

.((((((((.....((((((...&.....)))))).....)))))). -17.50

>ENSG00000151615 hs-mir-23a 173 180

AUCACAUUGCCAGGGAUUUCC&GCGAACGAGCGAACAAACUGAGCCCAAGCCGGUGAGAAUGUGAA

.(((((((((((.(.(((..&.....)))))).....)))))). -16.00

>ENSG00000151615 hs-mir-23a 463 470

AUCACAUUGCCAGGGAUUUCC&UUCAGGACUAAAACUUUAAACUAGAGUUGAUGCUUAAUGUGAUA

(((((((((((((.(.(((..&.....))))))..))..)))))). -15.80

>ENSG00000151615 hs-mir-23a 1665 1672

AUCACAUUGCCAGGGAUUUCC&AUUAAAAUAUGCUAUUAAAAUAAAUGGCUUUUAAAAUGUGAUG

(((((((((((((.(.(((..&.....)))))).....)))))). -18.60

mir-23a ENSMUSG00000031688 2000 nt UTR 2 hits 113 490

-----1-----1-----

>ENSMUSG00000031688 hs-mir-23a 113 120

AUCACAUUGCCAGGGAUUUC&CUUUCUACUUUGGCUAUCAGAAAACAAUUCGGUAAAUGUGAA

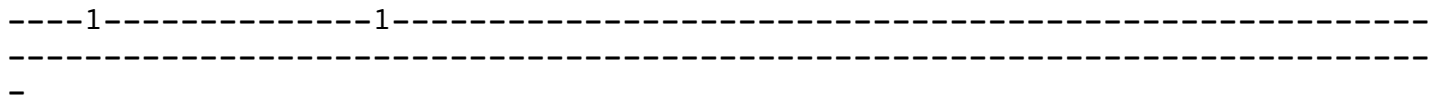
.(((((((((((((.....&.....)))))))))).)))))). -21.00

>ENSMUSG00000031688 hs-mir-23a 490 497

AUCACAUUGCCAGGGAUUUC&UUCAGGACUGAAACUCGAAGCUAGAGUUGAUGCUUAAUGUGAUA

(((((((((((((((.....&.....)))))))))).)))))). -15.80

mir-23a ENSRNOG00000012167 3709 nt UTR 2 hits 114 489



>ENSRNOG00000012167 hs-mir-23a 114 121

AUCACAUUGCCAGGGAUUUC&UCUUUCUACUUUGGCUAUCAGAAAACAAUUCGGUAAAUGUGAA

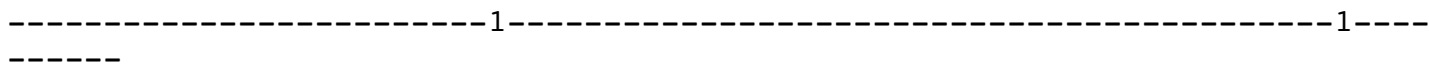
.(((((((((((((.....&.....)))))))))).)))))). -21.00

>ENSRNOG00000012167 hs-mir-23a 489 496

AUCACAUUGCCAGGGAUUUC&UUCAGGACUGAAACUCGAAGCUAGAGUUGAUGCUUAAUGUGAC

.(((((((((((((.....&.....)))))))))).)))))). -14.80

mir-23a SINFRUG000000126552 2000 nt UTR 2 hits 646 1730



>SINFRUG000000126552 hs-mir-23a 646 653

AUCACAUUGCCAGGGAUUUC&CUUUUGCCCGUCACGCACGUCAUUUUGUGUCCAAAAAUGUGAUC

(((((((((((((((.....&.....)))))))))).)))))). -16.60

>SINFRUG000000126552 hs-mir-23a 1730 1737

AUCACAUUGCCAGGGAUUUC&CCCGCUUGCACGCGUGGCCACUUUUUCAGACCUGAAAUGUGAG

.(((((((((((((.....&.....)))))))))).)))))). -18.50

miRNA: mir-24

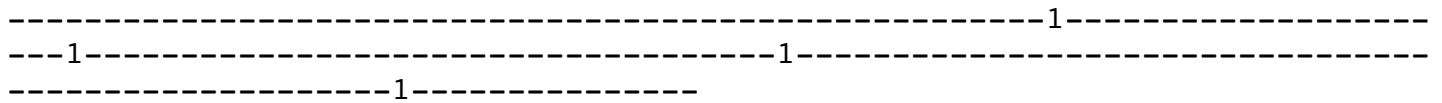
Human predicted target: ENSG00000174151

Mouse predicted target: ENSMUSG00000050639

Rat predicted target: ENSRNOG00000019777

Fugu predicted target: SINFRUG00000125370

mir-24 ENSG00000174151 4596 nt UTR 4 hits 1364 1941 2867 4204



>ENSG00000174151 hs-mir-24 1364 1371

UGGCUCAGUUCAGCAGGAACAG&GGAUCUCCCUAGAUAUGGCAAGGCCUGACAACAGCUGAGCCAG

(((((((((...((((.....&.....)))))).....)))))))). -26.80

>ENSG00000174151 hs-mir-24 1941 1948

UGGCUCAGUUCAGCAGGAACAG&CUUGCUCUAAGAGCAAGCAGGCAAUGCCGUAAAGCCUGAGCCU

.((((((((((((.....&)))))).....)))))))). -20.64

>ENSG00000174151 hs-mir-24 2867 2874

UGGCUCAGUUCAGCAGGAACAG&CCAAGCCCCGUCUUUUCUGUAACCACCCCUCCUCUGAGCCC

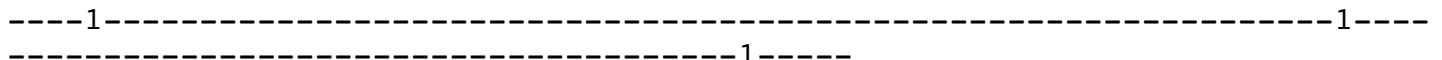
.(((((((...(((((((...&.....)))))).....)))))))). -20.73

>ENSG00000174151 hs-mir-24 4204 4211

UGGCUCAGUUCAGCAGGAACAG&AGGUGGUUAUUAUUAUGUUCUUGUCCUUCUCUUUCACUGAGCCAG

(((((((((...(((((((((.&.....)))))).....)))))))). -28.24

mir-24 ENSMUSG00000050639 2942 nt UTR 3 hits 114 1727 2820



>ENSMUSG00000050639 hs-mir-24 114 121

UGGCUCAGUUCAGCAGGAACAG&CACUUCAGAAGUAGAUGAAUUUUUGCACUUCAUGGCUGAGCCAC
((((((((((..(((((((...&.....)))))).....)))))))). -24.00

>ENSMUSG00000050639 hs-mir-24 1727 1734

UGGCUCAGUUCAGCAGGAACAG&CUUGUUCUCAGAGCACAGAGGCGAUGCCAGAAAGCCUGAGCCU
..((((((((((..(((((((&..)))))).....))))..)))).....)))))). -23.09

>ENSMUSG00000050639 hs-mir-24 2820 2827

UGGCUCAGUUCAGCAGGAACAG&UUUAAACCUCGCUGUGGGAGAUC CAGGCAUCCUCCUGAGCCAG
((((((((((..(((((((.....&.....))))..)))).....)))))))). -25.00

mir-24 ENSRNOG00000019777 2000 nt UTR 2 hits 112 1226

-----1-----1-----

>ENSRNOG00000019777 hs-mir-24 112 119

UGGCUCAGUUCAGCAGGAACAG&CACUUCAGAAGUAGAUGCAUUUUUGCACUUCAUGGCUGAGCCAC
((((((((((..(((((((...&.....)))))).....)))))))). -24.00

>ENSRNOG00000019777 hs-mir-24 1226 1233

UGGCUCAGUUCAGCAGGAACAG&UGGGCCCUCUGGAUCCUAAUAAGGACUGAAGACUGCUGAGCCAG
((((((((((((((((((((((..(((((((&.....))))..)))).....)))).....)))))))). -26.90

mir-24 SINFRUG00000125370 889 nt UTR 1 hits 356

-----1-----

>SINFRUG00000125370 hs-mir-24 356 363

UGGCUCAGUUCAGCAGGAACAG&AGUCUGGAAAACAGAUUUUAUUGUUGCUGUUUUGAGCUGAGCCC
..((((((((((((((((((((((..(((((((&.....))))..)))).....)))).....)))))))). -31.90

miRNA: mir-24

Human predicted target: ENSG00000179905

Mouse predicted target: ENSMUSG00000049932

Rat predicted target: ENSRNOG00000010386

Fugu predicted target: SINFRUG00000150234

Hs Gene description: HISTONE H2A.X (H2A/X). [Source:SWISSPROT;Acc:P16104]
NM_002105

mir-24 ENSG00000179905 2000 nt UTR 2 hits 154 1037

-----1-----1-----

>ENSG00000179905 hs-mir-24 154 161

UGGCUCAGUUCAGCAGGAACAG&CCUUUUAAGGGCCACCACCGCCCUCAUGGAAAGAGCUGAGCCGC

((((((((((((..((.....&.....))....))))).....)). -23.80

>ENSG00000179905 hs-mir-24 1037 1044

UGGCUCAGUUCAGCAGGAACAG&AGAUACCAGCACAAAGUCGGUUAUCCUGUCUGGACUGAGCCU

.((((((((((((((((.....&.....))))).)))))))). -34.30

mir-24 ENSMUSG00000049932 2878 nt UTR 3 hits 85 766 1780

---1-----1-----1---

>ENSMUSG00000049932 hs-mir-24 85 92

UGGCUCAGUUCAGCAGGAACAG&CCUUUUAAGGGCCACCACCUCCUCACAGAAAGAGCUGAGCCAC

((((((((((((..(((.....&.....)))....))))).....)). -24.50

>ENSMUSG00000049932 hs-mir-24 766 773

UGGCUCAGUUCAGCAGGAACAG&AGAUACCAGCACAAAGCCGGUGAAUCCUGUCUGGACUGAGCCU

.((((((((((((((((.....&.....))))).)))))))). -34.30

>ENSMUSG00000049932 hs-mir-24 1780 1787

UGGCUCAGUUCAGCAGGAACAG&CUGGAUGGUGGCCUGCAUAGUCUCUUGCAUGCUAUCUGAGCCAU

(((((((((..(((((((.....&.....)))))))).)).....)))))))). -26.70

mir-24 ENSRNOG00000010386 2000 nt UTR 3 hits 87 737 1772

---1-----1-----1---

>ENSRNOG00000010386 hs-mir-24 87 94

UGGCUCAGUUCAGCAGGAACAG&CCUUUUAAGGGCCACCACCUCUCCUCACAGAAAGAGCUGAGCCAC

(((((((((..(((((((.....&.....)))))))).)).....)))))))). -24.50

>ENSRNOG00000010386 hs-mir-24 737 744

UGGCUCAGUUCAGCAGGAACAG&AGAUACCAGCACAAGUCGGUGAAUCCUGUCUGGACUGAGCCU

.((((((((((((((((.....&.....)))))))).)))))))). -34.30

>ENSRNOG00000010386 hs-mir-24 1772 1779

UGGCUCAGUUCAGCAGGAACAG&CUGGAUGGUGGCCUGCAUGGUCUCUUGCAUGCUAUCUGAGCCAU

(((((((((..(((((((..&.....)))))))).)).....)))))))). -27.79

mir-24 SINFRUG000000150234 2000 nt UTR 2 hits 436 1228

-----1-----1-----

>SINFRUG000000150234 hs-mir-24 436 443

UGGCUCAGUUCAGCAGGAACAG&UUGCUGUUGAGGCCUACAUGAACACACCAACGGCUCUGAGCCC

.((((((((((((((((..(((..&.....)))))))).)).....)))))))). -19.91

>SINFRUG000000150234 hs-mir-24 1228 1235

UGGCUCAGUUCAGCAGGAACAG&UAGUGGCAAAAGCAGCAUGACACAUUGGGUUUGAACUGAGCCC

.((((((((((((((((.....&.....)))))))).)))))))). -24.60

miRNA: mir-25

Human predicted target: ENSG00000099822

Mouse predicted target: ENSMUSG00000020331

Rat predicted target: ENSRNOG00000008831

Fugu predicted target: SINFRUG00000153577

Hs Gene description: POTASSIUM/SODIUM HYPERPOLARIZATION-ACTIVATED CYCLIC NUCLEOTIDE-GATED CHANNEL 2 (BRAIN CYCLIC NUCLEOTIDE GATED CHANNEL 2) (BCNG-2). [Source:SWISSPROT;Acc:Q9UL51] NM_001194

mir-25 ENSG00000099822 2000 nt UTR 1 hits 391

-----1-----

>ENSG00000099822 hs-mir-25 391 398

CAUUGCACUUGUCUCGGUCUGA&UAGGUGGCCCCCGUCCGAGGAGGAUCGUUUUCUAAGUGCAAUA

.(((((((((((((((((((((.(...&.....).)))))).....)))))))). -24.10

mir-25 ENSMUSG00000020331 2462 nt UTR 1 hits 321

-----1-----

>ENSMUSG00000020331 hs-mir-25 321 328

CAUUGCACUUGUCUCGGUCUGA&AUGUGCGGUGGCCUCCGAGGAAGAAUAUGGAUCAAGUGCAAUA

.(((((((((((((((((((((.((.&.....)).....)))))).....)))))))). -25.00

mir-25 ENSRNOG00000008831 2009 nt UTR 1 hits 323

-----1-----

>ENSRNOG00000008831 hs-mir-25 323 330

CAUUGCACUUGUCUCGGUCUGA&AUGUGCGGUGGCCUCCGAGGAAGAAUAUGGAUCAAGUGCAAUA

.(((((((((((((((((((((.((.&.....)).....)))))).....)))))))). -25.00

mir-25 SINFRUG00000153577 2000 nt UTR 1 hits 1401

-----1-----

>SINFRUG00000153577 hs-mir-25 1401 1408
CAUUGCACUUGUCUCGGUCUGA&GGAUCCUGGCUGAGGUGGAGGUGCAUGUGAGCGAGUGCAAUU
.((((((((((((((((((((((...&.....)))))))).)))))))). -26.29

miRNA: mir-25

Human predicted target: ENSG00000131459

Mouse predicted target: ENSMUSG00000020363

Rat predicted target: ENSRNOG00000002810

Fugu predicted target: SINFRUG00000147825

Hs Gene description: GLUCOSAMINE--FRUCTOSE-6-PHOSPHATE AMINOTRANSFERASE
[ISOMERIZING] 2 (EC 2.6.1.16) (HEXOSEPHOSPHATE AMINOTRANSFERASE 2) (D-
FRUCTOSE-6- PHOSPHATE AMIDOTRANSFERASE 2) (GFAT 2) (GFAT2).
[Source:SWISSPROT;Acc:O94808] NM_005110

mir-25 ENSG00000131459 2874 nt UTR 1 hits 256

-----1-----

>ENSG00000131459 hs-mir-25 256 263
CAUUGCACUUGUCUCGGUCUGA&UACACAUGGGGAUCAGAGCAGACUUCUCCACUACUGUGCAAUA
.((((((((((..((((((..(((((((&.....)))))))).)))))))). -22.64

mir-25 ENSMUSG00000020363 2848 nt UTR 1 hits 250

-----1-----

>ENSMUSG00000020363 hs-mir-25 250 257
CAUUGCACUUGUCUCGGUCUGA&UUACACAUGGGGAUCAGAGCAGACUUUCCACUACUGUGCAAUA

.((((((((((..((((((..((((((&.....))))))..))))). -22.72

mir-25 ENSRNOG00000002810 2000 nt UTR 1 hits 255

-----1-----

>ENSRNOG00000002810 hs-mir-25 255 262

CAUUGCACUUGUCUCGGUCUGA&UUACACACGGGGAUGGGAGCAGACUUUCCACUACUGUGCAAUA

.((((((((((..((((((..((((((&.....))))))..))))). -21.00

mir-25 SINFRUG00000147825 2000 nt UTR 2 hits 1114 1407

-----1-----1-----

>SINFRUG00000147825 hs-mir-25 1114 1121

CAUUGCACUUGUCUCGGUCUGA&AAGGGAGAGAAUCCUCCAAGAUUUGCAAUGAAGUAGUGCAAUU

.((((((((((..((((((..((((((&..))..))))). -18.37

>SINFRUG00000147825 hs-mir-25 1407 1414

CAUUGCACUUGUCUCGGUCUGA&UGGCAGAAAGGUAAUGAACUAAAGUAUUUUAUAGUCGUGCAAUA

.((((((((((..((((((..((((((&...))..))))). -16.19

miRNA: mir-25

Human predicted target: ENSG00000146083

Mouse predicted target: ENSMUSG00000034928

Rat predicted target: ENSRNOG00000017641

Fugu predicted target: SINFRUG00000154157

Hs Gene description: NM_014901

mir-25 ENSG00000146083 4316 nt UTR 1 hits 2241

-----1-----

>ENSG00000146083 hs-mir-25 2241 2248

CAUUGCACUUGUCUCGGUCUGA&UAAAAUGAAAGUUGCUAGUUCUGCUUGACCAAGUAGUGCAAUC

.((((((((...(((((...&.....))))).))))))). -21.90

mir-25 ENSMUSG00000034928 4342 nt UTR 2 hits 2269 3585

-----1-----1-----

>ENSMUSG00000034928 hs-mir-25 2269 2276

CAUUGCACUUGUCUCGGUCUGA&UAAAAUGAAAGUUGCUAGUUCUGCUUGACCAAGUAGUGCAAUC

.((((((((...(((((...&.....))))).))))))). -21.90

>ENSMUSG00000034928 hs-mir-25 3585 3592

CAUUGCACUUGUCUCGGUCUGA&UAAAAUGAAAGUUGCUAGUUCUGCUUGACCAAGUAGUGCAAUC

.((((((((...(((((...&.....))))).))))))). -21.90

mir-25 ENSRNOG00000017641 4296 nt UTR 2 hits 2222 4158

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>ENSRNOG00000017641 hs-mir-25 2222 2229

CAUUGCACUUGUCUCGGUCUGA&UAAAAUGAAAGUUGCUAGUUCUGCUUGACCAAGUAGUGCAAUC

.((((((((...(((((...&.....))))).))))))). -21.90

>ENSRNOG00000017641 hs-mir-25 4158 4165

CAUUGCACUUGUCUCGGUCUGA&UAAAAUGAAAGUUGCUAGUUCUGCUUGACCAAGUAGUGCAAUC

.((((((((...(((((...&.....))))).))))))). -21.90

mir-25 SINFRUG00000154157 2000 nt UTR 1 hits 340

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>SINFRUG00000154157 hs-mir-25 340 347
CAUUGCACUUGUCUCGGUCUGA&UUCAGCGGGCUGGAGGACGGUGAGCUGCAGAUCUUGUGCAAUGA
(((((((((((((((((((((((((.&.....)))))))).))))).....)))))))). -26.76

miRNA: mir-25
Human predicted target: ENSG00000155744
Mouse predicted target: ENSMUSG00000038174
Rat predicted target: ENSRNOG00000011327
Rat predicted target: ENSRNOG00000012078
Fugu predicted target: SINFRUG00000137040
Hs Gene description: NM_173822

mir-25 ENSG00000155744 4800 nt UTR 2 hits 275 506

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>ENSG00000155744 hs-mir-25 275 282
CAUUGCACUUGUCUCGGUCUGA&UGCCUUUUCCAUGCCUUCUUCUCCUUGGGUGAUGUGCAAUC
.((((((((((..(((..(((..((&.....)))))))).)))))..)))). -17.20

>ENSG00000155744 hs-mir-25 506 513
CAUUGCACUUGUCUCGGUCUGA&GAGAUUCUGCUAUGACUUUGGACUUCUCUGAGUCUGUGCAAUC
.((((((((((..(((..(((..((&.....)))))))).)))))..)))). -21.10

mir-25 ENSMUSG00000038174 2575 nt UTR 2 hits 256 485

mir-25 SINFRUG00000137040 2000 nt UTR 2 hits 531 1416

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>SINFRUG00000137040 hs-mir-25 531 538

CAUUGCACUUGUCUCGGUCUGA&GCGUUUCAUUCCUACCCUUUCAUUCCCGGGCACAUGUGCAAUC

.(((((((((((((.....)))))))).))))). -24.00

>SINFRUG00000137040 hs-mir-25 1416 1423

CAUUGCACUUGUCUCGGUCUGA&AUGACCUGCUAAUCUCUCAUGUGAUGAUUUUGAAAGUGCAAUU

.(((((((((((((.....)))))))).))))). -18.50

miRNA: mir-25

Human predicted target: ENSG00000156052

Mouse predicted target: ENSMUSG00000024639

Rat predicted target: ENSRNOG00000014183

Fugu predicted target: SINFRUG00000134002

Hs Gene description: GUANINE NUCLEOTIDE-BINDING PROTEIN G(Q), ALPHA SUBUNIT. [Source:SWISSPROT;Acc:P50148] NM_002072

mir-25 ENSG00000156052 2401 nt UTR 2 hits 1556 1940

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>ENSG00000156052 hs-mir-25 1556 1563

CAUUGCACUUGUCUCGGUCUGA&UGAACCUACCAGGAGAAAUGUUUGGAAUUCUAUAUGUGCAAUU

.(((((((((((((.....)))))))).))))). -15.80

>ENSG00000156052 hs-mir-25 1940 1947

CAUUGCACUUGUCUCGGUCUGA&CCUGUAAUUUAACAAACAGACUGCCUGUAGGUUAUAGUGCAAUU

.((((((((((..(((((((((.&.....)))))))).))))).)))). -24.60

mir-25 ENSMUSG00000024639 2342 nt UTR 2 hits 1605 1940

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>ENSMUSG00000024639 hs-mir-25 1605 1612

CAUUGCACUUGUCUCGGUCUGA&CGAUCAUACUAGGAGGGAUGUUUGGAAUUCUCCAUGUGCAAUU

.(((((((((.((((((..(((((&...))))).)))).))))).)))). -17.06

>ENSMUSG00000024639 hs-mir-25 1940 1947

CAUUGCACUUGUCUCGGUCUGA&CCUGUAAUUUAUUAACAGACUGCCUGUAGGUUAUAGUGCAAUU

.((((((((((..(((((((((.&.....)))))))).))))).)))). -24.60

mir-25 ENSRNOG00000014183 2317 nt UTR 2 hits 1570 1906

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>ENSRNOG00000014183 hs-mir-25 1570 1577

CAUUGCACUUGUCUCGGUCUGA&CGAUCAUACUAGGAGAGAUGUUUGGAAUUCUCCAUGUGCAAUU

.(((((((((.((((((..(((((&.....))))).)))).))))).)))). -18.19

>ENSRNOG00000014183 hs-mir-25 1906 1913

CAUUGCACUUGUCUCGGUCUGA&CCUGUAAUUUAUUAACAGACUGCCUGUAGGUACAGUGCAAUU

.((((((((((..(((((((((.&.....)))))))).))))).)))). -24.60

mir-25 SINFRUG00000134002 2000 nt UTR 1 hits 1199

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>SINFRUG00000134002 hs-mir-25 1199 1206

CAUUGCACUUGUCUCGGUCUGA&AACGUAAGCCUGUAAUUUCCAUUUAUUGAGGCAUAGUGCAAUU

.((((((((((((((((((.....&.....)))))))).))))).)))). -24.60

miRNA: mir-25

Human predicted target: ENSG00000157152

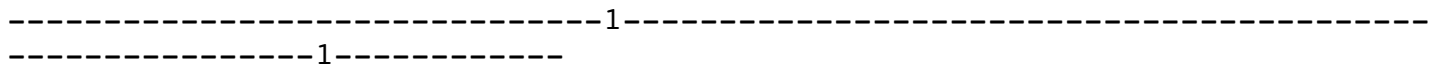
Mouse predicted target: ENSMUSG00000009394

Rat predicted target: ENSRNOG00000008157

Fugu predicted target: SINFRUG00000126214

Hs Gene description: SYNAPSIN II. [Source:SWISSPROT;Acc:Q92777]

mir-25 ENSG00000157152 2574 nt UTR 2 hits 798 2261



>ENSG00000157152 hs-mir-25 798 805

CAUUGCACUUGUCUCGGUCUGA&UAACUAUGAGAUUUUUAAAAAUGGGGCCGUGAUGUGCAAUA

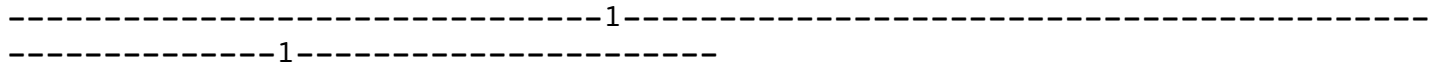
.((((((((((..(((..(((..((..&.....))))))..)))))))). -23.30

>ENSG00000157152 hs-mir-25 2261 2268

CAUUGCACUUGUCUCGGUCUGA&AGUACCUCUCUUUUGUGACUCUUGUACAGCUUAAUGUGCAAUA

.((((((((((((..(((..&.....))))..))))..)))).. -16.50

mir-25 ENSMUSG00000009394 2752 nt UTR 2 hits 780 2208



>ENSMUSG00000009394 hs-mir-25 780 787

CAUUGCACUUGUCUCGGUCUGA&UACAAGAUAAAAAAAAAAAAUAAGGGGCCCGCCGAUGUGCAAUA

.((((((((((((..(((..&.....))))..))))..)))).. -23.00

>ENSMUSG00000009394 hs-mir-25 2208 2215

CAUUGCACUUGUCUCGGUCUGA&CAUCUCCCUUUUGUGAUUCUCUUGUACAGCUCAAUGUGCAAUA

.((((((((((.....((.(.(&.....)))))))).))))). -17.00

mir-25 ENSRNOG00000008157 2750 nt UTR 2 hits 767 2144

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>ENSRNOG00000008157 hs-mir-25 767 774

CAUUGCACUUGUCUCGGUCUGA&GCUAAAGGUUAAAAAAAAAUCAAGGGGCCGUGAUGUGCAAUA

.((((((((((.....((.(.(&.....)))))))).))))). -23.70

>ENSRNOG00000008157 hs-mir-25 2144 2151

CAUUGCACUUGUCUCGGUCUGA&CAUCUCCCUUUUGUGAUUCUCUUGUACAGCUCAAUGUGCAAUA

.((((((((((.....((.(.(&.....)))))))).))))). -17.00

mir-25 SINFRUG00000126214 2000 nt UTR 1 hits 1359

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>SINFRUG00000126214 hs-mir-25 1359 1366

CAUUGCACUUGUCUCGGUCUGA&GCAUGGUGUCUGUGCGUCUUGUGAGCCGAUGCAAAGUGCAAUA

.((((((((((.....((.(.(&.....)))))))).))))). -24.90

miRNA: mir-25

Human predicted target: ENSG00000173517

Mouse predicted target: ENSMUSG00000043561

Rat predicted target: ENSRNOG00000016824

Fugu predicted target: SINFRUG00000154075

mir-25 ENSG00000173517 7992 nt UTR 2 hits 850 1308

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>ENSG00000173517 hs-mir-25 850 857
CAUUGCACUUGUCUCGGUCUGA&AGCUGGCAGGGCAUGAGGAGAUGAUUUUCUUGCAUGUGCAAUU
.(((((((.(((((((.(((.&.....))))).))))).))))). -20.23

>ENSG00000173517 hs-mir-25 1308 1315
CAUUGCACUUGUCUCGGUCUGA&UGUGUGCAGCCUGUGCUCCCCUUCUAUGGAUAUGUGUGCAAUU
.(((((((.(((((((.(((.&.....))))).))))).))))). -19.43

mir-25 ENSMUSG00000043561 3319 nt UTR 2 hits 778 1262

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>ENSMUSG00000043561 hs-mir-25 778 785
CAUUGCACUUGUCUCGGUCUGA&AGUUGGCAGGAUAUGAAGAAAUAUGUCCUUAUGUGUGCAAUU
.(((((((.(((.(((((((.(((.&.....))))).))))).))))). -16.21

>ENSMUSG00000043561 hs-mir-25 1262 1269
CAUUGCACUUGUCUCGGUCUGA&GUUCCCCGUGGAGCCCGGGCUCUCCCGUGAAUUAUGUGCAAUU
.(((((((.(((.(((((((.(((.&.....))))).))))).))))). -19.80

mir-25 ENSRNOG00000016824 2000 nt UTR 2 hits 816 1284

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>ENSRNOG00000016824 hs-mir-25 816 823
CAUUGCACUUGUCUCGGUCUGA&AUAGUGGGCAGGAUAUGAAGAAAUAUGUCCUUAUGUGCAAUU
.(((((((.(((((((.(((.&.....))))).))))).))))). -17.10

>ENSRNOG00000016824 hs-mir-25 1284 1291

CAUUGCACUUGUCUCGGUCUGA&GUUCCCCAUGAAGCCUGUGCUCUCCCGUGAAUUAUGUGCAAUU

.(((((((((((...(((...(((&...)))))))))...))).) -18.30

mir-25 SINFRUG00000154075 2000 nt UTR 1 hits 956

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>SINFRUG00000154075 hs-mir-25 956 963

CAUUGCACUUGUCUCGGUCUGA&CAGCCCUGACCAGGCUUGACUUCUUGUUGGAGCAUGUGCAAUU

.(((((((((((...(((...(((&...)))))))))...))).) -22.81

miRNA: mir-26a

Human predicted target: ENSG00000110321

Mouse predicted target: ENSMUSG00000005610

Rat predicted target: ENSRNOG00000011124

Rat predicted target: ENSRNOG00000017168

Fugu predicted target: SINFRUG00000136922

Hs Gene description: EUKARYOTIC TRANSLATION INITIATION FACTOR 4 GAMMA, 2; EUKARYOTIC TRANSLATION INITIATION FACTOR 4G-LIKE 1; P97.

[Source:RefSeq;Acc:NM_001418] NM_001418

mir-26a ENSG00000110321 2000 nt UTR 2 hits 378 756

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>ENSG00000110321 hs-mir-26a 378 385

UUCAAGUAAUCCAGGAUAGGCU&CACUGAAUACUGUAGAAUGCACUUUGCUCAGUAAUACUUGAGU

.(((((((((((...(((...(((&...)))))))))...))).) -15.00

>ENSG00000110321 hs-mir-26a 756 763

UUCAAGUAAUCCAGGAUAGGCU&UUUUUAUAUACUUGUAUCUAUCAAAUAAACAUGUGAUACUUGAU

.(((((((((((((.....)))))).....))))). -16.70

mir-26a ENSMUSG00000005610 2762 nt UTR 2 hits 380 757

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>ENSMUSG00000005610 hs-mir-26a 380 387

UUCAAGUAAUCCAGGAUAGGCU&CACUGAAUACUGUAGAGAUGCACUUUGCUCAGUAAUACUUGAGU

(((((((((((((((.....)))))).....))))). -15.00

>ENSMUSG00000005610 hs-mir-26a 757 764

UUCAAGUAAUCCAGGAUAGGCU&UUUUUAUAUACUUGUAUCUAUCAAAUAAACAUGUGAUACUUGAU

.(((((((((((((.....)))))).....))))). -16.70

mir-26a ENSRNOG00000011124 2000 nt UTR 2 hits 379 756

-----1-----1-----

>ENSRNOG00000011124 hs-mir-26a 379 386

UUCAAGUAAUCCAGGAUAGGCU&CACUGAAUACUGUAGAGAUGCACUUUGCUCAGUAAUACUUGAGU

(((((((((((((((.....)))))).....))))). -15.00

>ENSRNOG00000011124 hs-mir-26a 756 763

UUCAAGUAAUCCAGGAUAGGCU&UUUUUAUAUACUUGUAUCUAUCAAAUAAACAUGUGAUACUUGAAA

(((((((((((((((.....)))))).....))))). -17.60

mir-26a ENSRNOG00000017168 2762 nt UTR 2 hits 379 756

-----1-----1-----

>ENSRNOG00000017168 hs-mir-26a 379 386

UUCAAGUAAUCCAGGAUAGGCU&CACUGAAUACUGUAGAGAUGCACUUUGCUCAGUAAUACUUGAGU

(((((((((((((((.....)))))).....))))). -15.00

>ENSRNOG00000017168 hs-mir-26a 756 763
UUCAAGUAAUCCAGGAUAGGCU&UUUUUAUAUACUUGUAUCUAUCAAAUAAACAUGUGAUACUUGAU
.(((((((((((((.....&.....)))))).....))))). -16.70

mir-26a SINFRUG00000136922 2000 nt UTR 1 hits 682
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>SINFRUG00000136922 hs-mir-26a 682 689
UUCAAGUAAUCCAGGAUAGGCU&UUCAUAUGAAUAUACCUCUAAUGUAUCUCGGACUGUACUUGAAU
(((((((((((((.....&.....)))))).....))))). -21.30

miRNA: mir-26a

Human predicted target: ENSG00000137193

Mouse predicted target: ENSMUSG00000024014

Rat predicted target: ENSRNOG00000000529

Fugu predicted target: SINFRUG00000138008

Hs Gene description: PROTO-ONCOGENE SERINE/THREONINE-PROTEIN KINASE PIM-1
(EC 2.7.1.37). [Source:SWISSPROT;Acc:P11309] NM_002648

mir-26a ENSG00000137193 3337 nt UTR 1 hits 478
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>ENSG00000137193 hs-mir-26a 478 485
UUCAAGUAAUCCAGGAUAGGCU&GCCUUCUGUGGGGACUCCGGCUGUGCUGGGAGAAUACUUGAAC
(((((((((((((.....&.....)))))).....))))). -24.60

mir-26a ENSMUSG00000024014 2000 nt UTR 1 hits 450

-----1-----

>ENSMUSG00000024014 hs-mir-26a 450 457
UUCAAGUAAUCCAGGAUAGGCU&GCCUUCUGUGGGGACUCCGCCUGUGCUGGGAGAAUACUUGAAC
(((((((((.(((((.(((((.&.....)))))).))))).))))). -29.20
mir-26a ENSRNOG0000000529 2360 nt UTR 1 hits 434

-----1-----

>ENSRNOG0000000529 hs-mir-26a 434 441
UUCAAGUAAUCCAGGAUAGGCU&CCUUCUGUGGGGACUCUUGUCUGUGCUGGGAGAAUACUUGAAC
(((((((((.(((((.(((((.&.....)))))).))))).))))). -26.20
mir-26a SINFRUG00000138008 2000 nt UTR 1 hits 397

-----1-----

>SINFRUG00000138008 hs-mir-26a 397 404
UUCAAGUAAUCCAGGAUAGGCU&GAGUGCCUUCUGCAAUGUGUGAAGAGUCUGACCGUACUUGAAG
(((((((((.(((((.(((((&.....)))))).))))).))))). -21.00

miRNA: mir-26a

Human predicted target: ENSG00000163932

Mouse predicted target: ENSMUSG00000021948

Rat predicted target: ENSRNOG00000016346

Fugu predicted target: SINFRUG00000127498

Hs Gene description: PROTEIN KINASE C, DELTA TYPE (EC 2.7.1.-) (NPKC-DELTA). [Source:SWISSPROT;Acc:Q05655] NM_006254

mir-26a ENSG00000163932 2263 nt UTR 1 hits 226

-----1-----

>ENSG00000163932 hs-mir-26a 226 233

UUCAAGUAAUCCAGGAUAGGCU&GCCUUCGGAGGGAAAUUGUAAAUCCUGUGUUUCAUUACUUGAAU

((((((((((((((((((((((((.&)))))).....)))))))).).....)))))))). -23.92

mir-26a ENSMUSG00000021948 2498 nt UTR 1 hits 232

-----1-----

>ENSMUSG00000021948 hs-mir-26a 232 239

UUCAAGUAAUCCAGGAUAGGCU&GCCAUCAGAGGGAAACUGUAAAUCCUGUGUUUCAUUACUUGAAU

((((((((((((((((((((((((.&.....)))))))).).....)))))))). -22.40

mir-26a ENSRNOG00000016346 2473 nt UTR 1 hits 234

-----1-----

>ENSRNOG00000016346 hs-mir-26a 234 241

UUCAAGUAAUCCAGGAUAGGCU&GCCAUCGGAGGGAAACUGUAAAUCCUGUGUGUCAUUACUUGAAU

((((((((((((((((((((((((.&.....)))))))).).....)))))))). -22.40

mir-26a SINFRUG00000127498 2000 nt UTR 1 hits 593

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>SINFRUG00000127498 hs-mir-26a 593 600

UUCAAGUAAUCCAGGAUAGGCU&AAACACAGUAAAAGUAAGUGCUUAUUCGUCAUUAUUACUUGAAU

((((((((((((((((((((((((.&.....)))))))).).....)))))))). -23.60

miRNA: mir-26a

Human predicted target: ENSG00000170365

Mouse predicted target: ENSMUSG00000031681

Rat predicted target: ENSRNOG00000018483

Fugu predicted target: SINFRUG00000126514

Hs Gene description: MOTHERS AGAINST DECAPENTAPLEGIC HOMOLOG 1 (SMAD 1) (MOTHERS AGAINST DPP HOMOLOG 1) (MAD-RELATED PROTEIN 1) (TRANSFORMING GROWTH FACTOR- BETA SIGNALING PROTEIN-1) (BSP-1) (HSMAD1) (JV4-1). [Source:SWISSPROT;Acc:Q15797] NM_005900

mir-26a ENSG00000170365 2160 nt UTR 2 hits 46 103

-1--1-----

>ENSG00000170365 hs-mir-26a 46 53

UUCAAGUAAUCCAGGAUAGGCU&GCAUCUGCCUCUGGAAAACUAUUGAGCCUUGCAUGUACUUGAAG

(((((((((.....(((((&.....)))))))).))))). -21.80

>ENSG00000170365 hs-mir-26a 103 110

UUCAAGUAAUCCAGGAUAGGCU&GACACGAUUGAGAACUGACAAAGGAGCCUUGAUAAUACUUGAC

.((((((((.....(((((&.....)))))).))))). -17.00

mir-26a ENSMUSG00000031681 3248 nt UTR 2 hits 46 103

-1--1-----

>ENSMUSG00000031681 hs-mir-26a 46 53

UUCAAGUAAUCCAGGAUAGGCU&GCUUCCGUCUCUUGCAAACUAUCGAGCCUUGCAUGUACUUGAAG

(((((((((.....(((((&.....)))))))).))))). -19.50

>ENSMUSG00000031681 hs-mir-26a 103 110

UUCAAGUAAUCCAGGAUAGGCU&GACAGGAUGGAGACCUGACGAAGGAGCCACGAUAAUACUUGAC

.((((((((.....(((((&.....)))))).))))). -15.60

mir-26a ENSRNOG00000018483 2285 nt UTR 2 hits 49 102

-1--1-----

>ENSRNOG00000018483 hs-mir-26a 49 56

UUCAAGUAAUCCAGGAUAGGCU&GCUUCUGUCUCUUGCAAACUAUUGGGCCUUGCAUGUACUUGAAG

(((((((((...(((...((((&.....))))))....)))))))). -19.50

>ENSRNOG00000018483 hs-mir-26a 102 109

UUCAAGUAAUCCAGGAUAGGCU&GUCAGACAGGAUGGGGAGCUGUAAAGGAGCCGUGAUACUUGAC

.(((((((...(((...((((&.....))))....)))))))). -16.20

mir-26a SINFRUG00000126514 2000 nt UTR 2 hits 194 273

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>SINFRUG00000126514 hs-mir-26a 194 201

UUCAAGUAAUCCAGGAUAGGCU&GGGACCAGUGGGGCUGGGCAGGAUGGUUUGAUGUCUACUUGAAG

(((((((((...(((...((((&.....))))....)))))))). -18.60

>SINFRUG00000126514 hs-mir-26a 273 280

UUCAAGUAAUCCAGGAUAGGCU&GGAGUCAAGAAGUGAGCAUGAUGCAACUGGAAGAUACUUGAU

.(((((((...(((...((((&.....))))....)))))))). -19.90

miRNA: mir-27a

Human predicted target: ENSG00000055070

Mouse predicted target: ENSMUSG00000040842

Rat predicted target: ENSRNOG00000009183

Fugu predicted target: SINFRUG00000123544

Fugu predicted target: SINFRUG00000124328

Hs Gene description: NM_015609

mir-27a ENSG00000055070 5002 nt UTR 4 hits 122 146 168 198

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>ENSG00000055070 hs-mir-27a 122 129

UUCACAGUGGCUAAGUUCGCGCC&GGACUUGAGCAGAGGGAACGACCUGACUACUUGCACUGUGAU

.((((((((((((((((((((((...&)))))))).)))).)))). -21.45

>ENSG00000055070 hs-mir-27a 146 153

UUCACAGUGGCUAAGUUCGCGCC&GACUACUUGCACUGUGAUCCCCCUUGCUCGCGCCACUGUGAC

.((((((((((((((((((((((...&...)))))))).)))).)))). -21.10

>ENSG00000055070 hs-mir-27a 168 175

UUCACAGUGGCUAAGUUCGCGCC&CCUUGCUCGCGCCACUGUGACCUUGAACCCCAUGCACUGUGAC

.((((((((((((((((((((((...&...)))))))).)))).)))). -18.70

>ENSG00000055070 hs-mir-27a 198 205

UUCACAGUGGCUAAGUUCGCGCC&CAUGCACUGUGACCUCCCCCUUCUCCCCCUUCCACUGUGAU

.((((((((((((((((((((((...&...)))))))).)))).)))). -19.50

mir-27a ENSMUSG00000040842 2000 nt UTR 4 hits 119 143 165 193

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>ENSMUSG00000040842 hs-mir-27a 119 126

UUCACAGUGGCUAAGUUCGCGCC&GGACUUGAGCAGAGGGAUAACCUGACUACUUGCACUGUGAU

.((((((((((((((((((((((...&)))))))).)))).)))). -21.45

>ENSMUSG00000040842 hs-mir-27a 143 150

UUCACAGUGGCUAAGUUCGCGCC&GACUUACUUGCACUGUGAUCCCCCUUGCUCGCGCCACUGUGAC
.((((((((((..(((.....&.....)))))))).)))). -21.10

>ENSMUSG00000040842 hs-mir-27a 165 172

UUCACAGUGGCUAAGUUCGCGCC&CCUUGCUCGCGCCACUGUGACCUUGAACCCCAUGCACUGUGAC
.(((((((((.(...(((.....&.....)))))))).)))). -18.70

>ENSMUSG00000040842 hs-mir-27a 193 200

UUCACAGUGGCUAAGUUCGCGCC&CCCAUGCACUGUGACCUCUGCCUCCCCCCUUCCACUGUGAU
.((((((((((.....&.....)))))))). -19.50

mir-27a ENSRNOG0000009183 2530 nt UTR 8 hits 117 141 163 191 641
665 687 715

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>ENSRNOG0000009183 hs-mir-27a 117 124

UUCACAGUGGCUAAGUUCGCGCC&GGACUUGAGCAGAGGGAAUAACCUGACUUACUUGCACUGUGAU
.((((((((((((((((.....&)))))))).)))). -21.45

>ENSRNOG0000009183 hs-mir-27a 141 148

UUCACAGUGGCUAAGUUCGCGCC&GACUUACUUGCACUGUGAUCCCCCUUGCUCGCGCCACUGUGAC
.((((((((((..(((.....&.....)))))))).)))). -21.10

>ENSRNOG0000009183 hs-mir-27a 163 170

UUCACAGUGGCUAAGUUCGCGCC&CCUUGCUCGCGCCACUGUGACCUUGAACCCCAUGCACUGUGAC
.(((((((((.(...(((.....&.....)))))))).)))). -18.70

>ENSRNOG0000009183 hs-mir-27a 191 198

UUCACAGUGGCUAAGUUCGCGCC&CCCAUGCACUGUGACCUCUGCCUCCCCCCUUCCACUGUGAU
.((((((((((.....&.....)))))))). -19.50

>ENSRNOG0000009183 hs-mir-27a 641 648

UUCACAGUGGCUAAGUUCGCGCC&GGACUUGAGCAGAGGGAAUAACCUGACUUACUUGCACUGUGAU
.((((((((((((((((((((((.....&)))))))).)))))).....)))))))). -21.45

>ENSRNOG00000009183 hs-mir-27a 665 672

UUCACAGUGGCUAAGUUCGCGCC&GACUUACUUGCACUGUGAUCCCCCUUGCUCGCGCCACUGUGAC
.((((((((((((((..((.....&.....))))..)))))..)))))))). -21.10

>ENSRNOG00000009183 hs-mir-27a 687 694

UUCACAGUGGCUAAGUUCGCGCC&CCUUGCUCGCGCCACUGUGACCUUGAACCCCAUGCACUGUGAC
.((((((((((..((.....&.....)))).....)))))))). -18.70

>ENSRNOG00000009183 hs-mir-27a 715 722

UUCACAGUGGCUAAGUUCGCGCC&CCCAUGCACUGUGACCUCUGCCUCCCCCCUCCACUGUGAU
.((((((((((.....&.....))))))..)))))))). -19.50

mir-27a SINFRUG00000123544 2000 nt UTR 2 hits 879 907

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>SINFRUG00000123544 hs-mir-27a 879 886

UUCACAGUGGCUAAGUUCGCGCC&GCGCUCUUCUCUUAUACCACCCGAGUCGGUUGACACUGUGAU
.((((((((((.....((..&.....)))).....)))))))). -18.80

>SINFRUG00000123544 hs-mir-27a 907 914

UUCACAGUGGCUAAGUUCGCGCC&GGUUGACACUGUGAUCGUGGACGUCUUCUGCUCUCACUGUGAC
.((((((((((..((((((((..&.....)))))).....))))..)))))))). -22.40

mir-27a SINFRUG00000124328 2000 nt UTR 1 hits 314

-----1-----

>SINFRUG00000124328 hs-mir-27a 314 321

UUCACAGUGGCUAAGUUCGCGCC&CGCUGCGAACGGGCCUUCAGCUCACAUCCUCUACACUGUGAU

.((((((((((((((((((..((..&.....))))))..))))).)).....)))))))). -24.41

miRNA: mir-27a

Human predicted target: ENSG00000135373

Mouse predicted target: ENSMUSG00000012350

Rat predicted target: ENSRNOG00000007484

Fugu predicted target: SINFRUG00000151958

Hs Gene description: ETS HOMOLOGOUS FACTOR ISOFORM B; EPITHELIUM-SPECIFIC ETS FACTOR 3. [Source:RefSeq;Acc:NM_012153] NM_172233

mir-27a ENSG00000135373 3861 nt UTR 2 hits 3387 3499

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>ENSG00000135373 hs-mir-27a 3387 3394

UUCACAGUGGCUAAGUUCGCGCC&ACCUUCAAGGACAUAUUAUCUACUAUGAACAUUUUACUGUGAGA

((((((((((((((((((((..((..&.....))))))..))))).)).....)))))))). -18.40

>ENSG00000135373 hs-mir-27a 3499 3506

UUCACAGUGGCUAAGUUCGCGCC&AUAUGUUGGAUGAGGAUUCUGUUGCCUUAUUGGGAACUGUGAGA

((((((((((((((((((((..((..((..((..&.....))))))..))))).)).....)))))))). -22.20

mir-27a ENSMUSG00000012350 5426 nt UTR 2 hits 2373 2481

-----1---1-----

>ENSMUSG00000012350 hs-mir-27a 2373 2380

UUCACAGUGGCUAAGUUCGCGCC&CAUAAUAACUAAACCUUCCAGGAUGAGAACAUAUUUACUGUGAC

.((((((((((((((((((..((..((..((..&.....))))))..))))).)).....)))))))). -20.00

>SINFRUG00000151958 hs-mir-27a 378 385

UUCACAGUGGCCUAAGUUCGCC&AUGUAUUCAGUGUGUGUUGAGUGUGUGUUUUUAUACUGUGAAA

((((((((((..((((((..(((.&.....)))))))))..)))))))). -20.40

miRNA: mir-29b

Human predicted target: ENSG00000071575

Mouse predicted target: ENSMUSG00000020601

Rat predicted target: ENSRNOG00000004110

Fugu predicted target: SINFRUG00000143157

Hs Gene description: GS3955 PROTEIN. [Source:RefSeq;Acc:NM_021643]
NM_021643

mir-29b ENSG00000071575 2610 nt UTR 2 hits 1758 1862

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1-----

>ENSG00000071575 hs-mir-29b 1758 1765

UAGCACCAUUUGAAAUCAGUGUU&AGAGAAGGUUUUUUUUUUUUAACAUCUGAAGAUGGUGCUGU

((((((((((.....(((((((((&.....)))))))))..)))))))). -
22.90

>ENSG00000071575 hs-mir-29b 1862 1869

UAGCACCAUUUGAAAUCAGUGUU&GGUUGGUGACAUGCAUGGUGGGGAUCAUGGCCUCUGGUGCUU

.((((((((.....(((((((((&.....)))))))))..)))))).....)))))). -15.85

mir-29b ENSMUSG00000020601 3879 nt UTR 3 hits 1701 1805 3766

-----1---1-

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>ENSMUSG00000020601 hs-mir-29b 1701 1708

UAGCACCAUUUGAAAUCAGUGUU&GAAGAUACAGAGAGAGGGUUUUUACAUUCAGAAGAUGGUGCUGU

((((((((((((.....(((((.&.....)))))).....)))))))). -
21.60

>ENSMUSG00000020601 hs-mir-29b 1805 1812

UAGCACCAUUUGAAAUCAGUGUU&GAUUGGAAACAUGCAUGAUGGGGACUAAUGGCCUCUGGUGCUU

.((((((((.....((..(((..(((&.....))))..))))..)))))))). -17.10

>ENSMUSG00000020601 hs-mir-29b 3766 3773

UAGCACCAUUUGAAAUCAGUGUU&GCAAGAGGAAACACAGAGCUCUUUUGACUUGGGAGUGGUGCUAG

((((((((((((((.....((..(((..(((&.....))))..))))..)))))))). -
24.10

mir-29b ENSRNOG00000004110 3884 nt UTR 2 hits 1702 1806

-----1-----1-

>ENSRNOG00000004110 hs-mir-29b 1702 1709

UAGCACCAUUUGAAAUCAGUGUU&GAAGAUACAGAGAAAGGGUUUUUACAUUCAGAAGAUGGUGCUGU

((((((((((((((.....(((((.&.....)))))).....)))))))). -
21.60

>ENSRNOG00000004110 hs-mir-29b 1806 1813

UAGCACCAUUUGAAAUCAGUGUU&GAUUGGUAACAUGCAUGAUGGGGACUAAUGGCCUCUGGUGCUU

.((((((((.....((..(((..(((&.....))))..))))..)))))))). -17.10

mir-29b SINFRUG00000143157 2000 nt UTR 2 hits 302 1509

-----1-----1-----

>SINFRUG00000143157 hs-mir-29b 302 309

UAGCACCAUUUGAAAUCAGUGUU&AAUUUUUAUUUCUUUUGGAUCUGUUUGGUUUUAUGUGGUGCUC

.((((((((((..(((..(((..(((&.....))))..))))..)))))))). -24.70

>SINFRUG00000143157 hs-mir-29b 1509 1516

UAGCACCAUUUGAAAUCAGUGUU&UGCUIUUUUUCCUUCUCCUUGAUGCAACUUUUUAAGUUGGUGCUGA

((((((((((((((((((((((.....&.....)))))).....))))))..))))) -
22.00

miRNA: mir-29b

Human predicted target: ENSG00000080573

Mouse predicted target: ENSMUSG00000004098

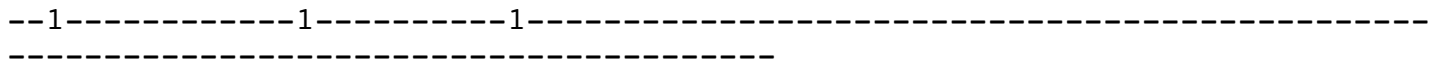
Rat predicted target: ENSRNOG00000020525

Fugu predicted target: SINFRUG00000127082

Fugu predicted target: SINFRUG00000146544

Hs Gene description: COLLAGEN ALPHA 3(V) CHAIN (FRAGMENTS).
[Source:SWISSPROT;Acc:P25940] NM_015719

mir-29b ENSG00000080573 2850 nt UTR 3 hits 52 385 663



>ENSG00000080573 hs-mir-29b 52 59

UAGCACCAUUUGAAAUCAGUGUU&AGGGACCAUGAGGGAGCCCCAGAAUGGGGUGCAUUUGGUGCUGA

((((((((((..((..((.....&.....))))..))))))..))))) -
21.00

>ENSG00000080573 hs-mir-29b 385 392

UAGCACCAUUUGAAAUCAGUGUU&CUCCUCACUCCUCCGUCGCUGCCCUUCACACCUUUUGGUGCUAC

((((((((((..((..((..((..&.....))))..))))..))))))..))))) -
22.10

>ENSG00000080573 hs-mir-29b 663 670

UAGCACCAUUUGAAAUCAGUGUU&GACCAAGAUGUUGGGGGGUGAAAUCAGGAUCCUAAUGGUGCUGC

(((((((((.....((((..(&.....))..))).....)))))))). -
19.55

mir-29b ENSMUSG00000004098 2000 nt UTR 3 hits 57 334 586

--1-----1-----1-----

>ENSMUSG00000004098 hs-mir-29b 57 64

UAGCACCAUUUGAAAUCAGUGUU&GGAAGGAAGCUGAAGGGAGCCCCACAUGGGCUCCUUGGUGCUGA

(((((((((.....((((..(&.....))..))).....)))))))). -
22.30

>ENSMUSG00000004098 hs-mir-29b 334 341

UAGCACCAUUUGAAAUCAGUGUU&CCACCCCUGCCUCUCCACCCCUCACCAGGCCUUUUGGUGCUAU

(((((((((.....((((..(&.....))..))).....)))))))). -
18.11

>ENSMUSG00000004098 hs-mir-29b 586 593

UAGCACCAUUUGAAAUCAGUGUU&GGACCAAGAUGUUGGGCAUAAAUCAGGAUCCUACAUGGUGCUGC

(((((((((.....((((..(&.....))..))).....)))))))). -
19.40

mir-29b ENSRNOG00000020525 2786 nt UTR 3 hits 52 333 585

--1-----1-----1-----

>ENSRNOG00000020525 hs-mir-29b 52 59

UAGCACCAUUUGAAAUCAGUGUU&GAAGGAAGCUAAAGGGAGCCCCAUGUGGGGCUAUGUGGUGCUGA

(((((((((.....((((..(&.....))..))).....)))))))). -
20.40

>ENSRNOG00000020525 hs-mir-29b 333 340

UAGCACCAUUUGAAAUCAGUGUU&CCACCCCUGCCUCUCCACCCCUCACCAGGCCUUUUGGUGCUAU

((((((((.....((...&.....)))).....)))))).. -
18.11

>ENSRNOG00000020525 hs-mir-29b 585 592

UAGCACCAUUUGAAAUCAGUGUU&GGACCAAGAUGUUGGGCACAAAUCAGGAUCCUAAAUGGUGCUGC

((((((((((((.....((...&.....)))).....)))).....)))))).. -
24.40

mir-29b SINFRUG00000127082 2000 nt UTR 1 hits 584

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>SINFRUG00000127082 hs-mir-29b 584 591

UAGCACCAUUUGAAAUCAGUGUU&UUGUUGUGAAAUGUAUAUAGUUUGUAAUUAUCAUGGUGCUAU

((((((((((((.....((...&.....)))).....)))).....)))))).. -
18.10

mir-29b SINFRUG00000146544 2000 nt UTR 2 hits 960 1097

-----1-----1-----

>SINFRUG00000146544 hs-mir-29b 960 967

UAGCACCAUUUGAAAUCAGUGUU&UUUGGGGUUUGUGUGACUGAUGAUUUGCUCUGCCAUGGUGCUAA

((((((((((((.....((...&.....)))).....)))).....)))))).. -
21.60

>SINFRUG00000146544 hs-mir-29b 1097 1104

UAGCACCAUUUGAAAUCAGUGUU&AUUGCUCUUUCAGCUGAAUAACGUCCUAGAGACUGGUGCUU

.((((((((.....((...&.....)))).....)))).....)))).. -17.71

miRNA: mir-29b

Human predicted target: ENSG00000119772

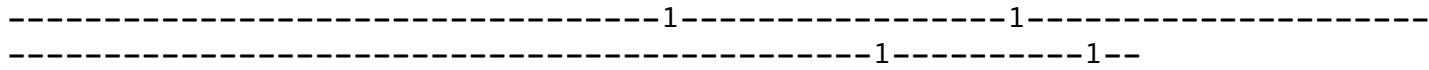
Mouse predicted target: ENSMUSG00000020661

Rat predicted target: ENSRNOG00000012555

Fugu predicted target: SINFRUG00000135438

Hs Gene description: DNA (CYTOSINE-5)-METHYLTRANSFERASE 3A (EC 2.1.1.37) (DNMT3A) (DNA METHYLTRANSFERASE HSAIIIA) (DNA MTASE HSAIIIA) (M.HSAIIIA). [Source:SWISSPROT;Acc:Q9Y6K1] NM_175630

mir-29b ENSG00000119772 3303 nt UTR 4 hits 862 1305 2998 3256



>ENSG00000119772 hs-mir-29b 862 869

UAGCACCAUUUGAAAUCAGUGUU&GGUACUGUUAACUACUGUACAACCCGACUUCAUAAUGGUGCUU

.(((((((((((((((((.(.(.(((&.....))))).)))).)))))). -22.20

>ENSG00000119772 hs-mir-29b 1305 1312

UAGCACCAUUUGAAAUCAGUGUU&CACCUGGAGCAAUAAAAAACAUAACAAAACGUACUGGUGCUU

.((((((((((((((...(((.(.(&..))))).)))).).....)))))). -17.54

>ENSG00000119772 hs-mir-29b 2998 3005

UAGCACCAUUUGAAAUCAGUGUU&CCUCUGCCCCUCAGUGGAGUCCCUGUGCUAACUGUGGUGCUC

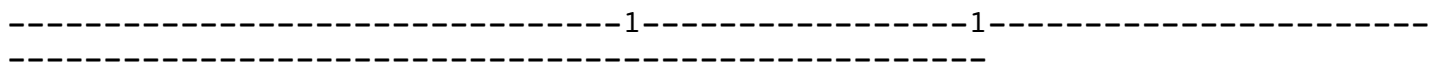
.((((((((((.....(((.....&.....))))).).....)))))). -18.76

>ENSG00000119772 hs-mir-29b 3256 3263

UAGCACCAUUUGAAAUCAGUGUU&UUUCCAGCGGCCCAAGCUCCACCGGAACUGGGCCUGGUGCUC

.((((((((((...((...(((...&.....))))).).....)))))). -18.80

mir-29b ENSMUSG00000020661 3103 nt UTR 2 hits 825 1252



>ENSMUSG00000020661 hs-mir-29b 825 832

UAGCACCAUUUGAAAUCAGUGUU&GGUACUGUUAACUACUGUACAUCCCGACUUCAUAAUGGUGCUU

.((((((((((((((((((.(((.((((.&.....))))))....)))).)))))))). -22.30

>ENSMUSG00000020661 hs-mir-29b 1252 1259

UAGCACCAUUUGAAAUCAGUGUU&CACCUGGAGCAAUAAAAAAAAACAUACAAAUGUACUGGUGCUU

.((((((((((((((((...(((.((((.&))))))....)))).)))))))). -17.54

mir-29b ENSRNOG00000012555 2000 nt UTR 2 hits 811 1281

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>ENSRNOG00000012555 hs-mir-29b 811 818

UAGCACCAUUUGAAAUCAGUGUU&GGUACUGUUAACUACUGUACAUCCCAACUUCAUAAUGGUGCUU

.((((((((((((((((((.(((.((((.&.....))))))....)))).)))))))). -21.22

>ENSRNOG00000012555 hs-mir-29b 1281 1288

UAGCACCAUUUGAAAUCAGUGUU&CACCUGGAGCAAUAAAAAAAAACAUACAAAACGUACUGGUGCUU

.((((((((((((((((...(((.((((.&))))))....)))).)))))))). -17.54

mir-29b SINFRUG000000135438 2000 nt UTR 2 hits 459 647

-----1-----1-----

>SINFRUG000000135438 hs-mir-29b 459 466

UAGCACCAUUUGAAAUCAGUGUU&AAUAAAGGUACUACUGUAAUUAUGGUUACAACACCAUGGUGCUC

.((((((((((((((((((.(((.((((.&.....))))))....)))).)))))))). -19.60

>SINFRUG000000135438 hs-mir-29b 647 654

UAGCACCAUUUGAAAUCAGUGUU&UUUUAUGCAUUUUACAGCUUUUCUACAGUUUGUACUGGUGCUC

.((((((((.....&.....)))))))). -15.20

miRNA: mir-29b

Human predicted target: ENSG00000132510

Mouse predicted target: ENSMUSG00000018476

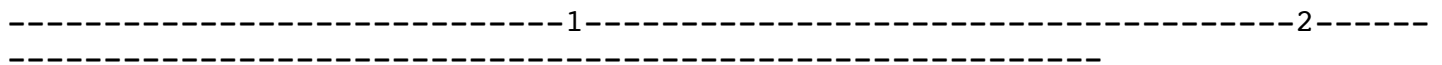
Mouse predicted target: ENSMUSG00000046383

Rat predicted target: ENSRNOG00000010142

Fugu predicted target: SINFRUG00000131193

Fugu predicted target: SINFRUG00000148279

mir-29b ENSG00000132510 3275 nt UTR 3 hits 744 1690 1696



>ENSG00000132510 hs-mir-29b 744 751

UAGCACCAUUUGAAAUCAGUGUU&CCACCCGUCCGCCGCGGCUCCAGCCGGUUCUCAUGGUGCUC

.((((((((((..(((..((..&.....)).)))))..)))))). -20.90

>ENSG00000132510 hs-mir-29b 1690 1697

UAGCACCAUUUGAAAUCAGUGUU&GAAUCUGCUGGUGGCUGCCUCAAUCUUCUCCUGCUGGUGCUGG

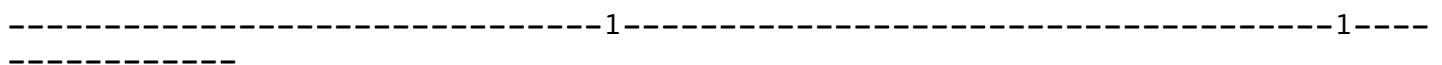
(((((((((..(((..(((..&.....))))..))))). -21.90

>ENSG00000132510 hs-mir-29b 1696 1703

UAGCACCAUUUGAAAUCAGUGUU&GCUGGUGGCUGCCUCAAUCUUCUCCUGCUGGUGCUGGUGCUG

(((((((((.....(((..(((..&.....))))..))))). -22.20

mir-29b ENSMUSG00000018476 2147 nt UTR 2 hits 782 1743



>ENSMUSG00000018476 hs-mir-29b 782 789

UAGCACCAUUUGAAAUCAGUGUU&GUCUCCGCCCGCCGCGGCUCCAGCCGGGCUCUCAUGGUGCUC

.((((((((((..(((..((..&.....)).)))))..)))))). -20.00

>ENSMUSG00000018476 hs-mir-29b 1743 1750

UAGCACCAUUUGAAAUCAGUGUU&GCUGGUGGCUGUUUCAAUCUCCUCUUGCUGGCACUGGUGCUGG

(((((.....&.....))))). -
23.17

mir-29b ENSMUSG00000046383 2002 nt UTR 1 hits 1921

--1----

>ENSMUSG00000046383 hs-mir-29b 1921 1928

UAGCACCAUUUGAAAUCAGUGUU&UGCGCGCCGUCGCAGCGCGGGCCUACAGGGCGUGGUGGUGCUAG

(((((.....&.....))))). -
20.59

mir-29b ENSRNOG00000010142 2000 nt UTR 2 hits 776 1729

-----1-----1-----

>ENSRNOG00000010142 hs-mir-29b 776 783

UAGCACCAUUUGAAAUCAGUGUU&GUCUCCGCCCGCCGCGGCUCCAGCCGGGUUCUCAUGGUGCUC

.(((((.....&.....))))). -20.90

>ENSRNOG00000010142 hs-mir-29b 1729 1736

UAGCACCAUUUGAAAUCAGUGUU&GCUGGUGGCUGUUUCAAUCUCCUCUUGUUGGCGCUGGUGCUGG

(((((.....&.....))))). -
23.17

mir-29b SINFRUG00000131193 2000 nt UTR 1 hits 39

-1-----

>SINFRUG00000131193 hs-mir-29b 39 46

UAGCACCAUUUGAAAUCAGUGUU&CUCACUCAGCGUUUCAUCAUAUUUUGUGCUAAAAAUGGUGCUU

.(((((.....&.....))))). -19.92

mir-29b SINFRUG00000148279 2000 nt UTR 2 hits 279 1105

-----1-----1-----

>SINFRUG00000148279 hs-mir-29b 279 286

UAGCACCAUUUGAAAUCAGUGUU&CCAGGCGGCCACCAACACACCAGUUUACUCUCAGAUGGUGCUU

.((((((((((((((((((..(((.&.....))))).))).....)))))))). -24.70

>SINFRUG00000148279 hs-mir-29b 1105 1112

UAGCACCAUUUGAAAUCAGUGUU&GAUUUUUAAGAUGCGUUGAACAUAAACAGGAUAGAUGGUGCUAA

((((((((((((((((.....(((.&.....))))).))).....)))))))). -
22.62

miRNA: mir-29b

Human predicted target: ENSG00000138779

Mouse predicted target: ENSMUSG00000040943

Rat predicted target: ENSRNOG00000012350

Fugu predicted target: SINFRUG00000143809

mir-29b ENSG00000138779 5282 nt UTR 3 hits 447 596 1151

-----1-----1-----1-----

>ENSG00000138779 hs-mir-29b 447 454

UAGCACCAUUUGAAAUCAGUGUU&UAGUAUUACAGUGACAGGAAUCUUA AAAAUACCAUCUGGUGCUGA

((((((((((((((((..(((.&.....))))).))).....)))))))). -
19.25

>ENSG00000138779 hs-mir-29b 596 603

UAGCACCAUUUGAAAUCAGUGUU&GGAAAACACUGAAUUUGUUUGGAUGUUCUAAGAAAUGGUGCUAA

(((((((((((((((((((((&.....)))))))))))).)).....)))))))))))). -
27.59

>ENSG00000138779 hs-mir-29b 1151 1158

UAGCACCAUUUGAAAUCAGUGUU&UCAAGGGAAUACGUUAGUCCACAAAACAUGUUUUCUGGUGCUC

.(((((((((((((((((((((&.....)))))))))))).)).....)))))))))))). -20.00

mir-29b ENSMUSG00000040943 2877 nt UTR 4 hits 398 557 1055 1161

-----1-----1-----1-----1-----1-----

>ENSMUSG00000040943 hs-mir-29b 398 405

UAGCACCAUUUGAAAUCAGUGUU&ACACAGCGCUGUAGUAGAGCAGUUGCAGGAUCAUCUGGUGCUGA

(((((((((((((((((((((&.....)))))))))))).)).....)))))))))))). -
24.25

>ENSMUSG00000040943 hs-mir-29b 557 564

UAGCACCAUUUGAAAUCAGUGUU&CAAACACUGAAUCUGUUUGGGUGUUAACAUAUAUGGUGCUC

(((((((((((((((((((((&.....)))))))))))).)).....)))))))))))). -
27.80

>ENSMUSG00000040943 hs-mir-29b 1055 1062

UAGCACCAUUUGAAAUCAGUGUU&GAUAUGCUAGUCCACAGAAAACAAUAACAGUUUUUGGUGCUC

.(((((((((((((((((((((&.....)))))))))))).)).....)))))))))))). -16.50

>ENSMUSG00000040943 hs-mir-29b 1161 1168

UAGCACCAUUUGAAAUCAGUGUU&AAGAACGUCUGUUAUUGCAGGUGAUAAUAGCCUUGGUGCUGC

(((((((((((((((((((((&.....)))))))))))).)).....)))))))))))). -
18.21

mir-29b ENSRNOG00000012350 2000 nt UTR 2 hits 556 1107

-----1-----1-----

>ENSRNOG00000012350 hs-mir-29b 556 563

UAGCACCAUUUGAAAUCAGUGUU&CAAAACACUGAAUUUGUUUGGGUGUUAACAUAUAAAUGGUGCUAC

((((((((((((((((..(((((((((&...)))))))))).....)))))))))))). -
27.80

>ENSRNOG00000012350 hs-mir-29b 1107 1114

UAGCACCAUUUGAAAUCAGUGUU&GUGAAUGGAUAGGCUAGUCUACAAAACACGUUUCUGGUGCUU

.((((((((((((((((..(((((((((&.....))))))))))..)))))))). -21.10

mir-29b SINFRUG00000143809 2000 nt UTR 3 hits 241 665 875

-----1-----1-----1-----

>SINFRUG00000143809 hs-mir-29b 241 248

UAGCACCAUUUGAAAUCAGUGUU&GGCAAUUCUGCAACACACACCUUGUCAAAAUAUCUGGUGCUU

.((((((((((((((((.....(((((.&.....))))))..))))))..)))))))). -20.20

>SINFRUG00000143809 hs-mir-29b 665 672

UAGCACCAUUUGAAAUCAGUGUU&CUGCUUUGUUUAUGCAAAAUGAACUUUCUUGUGUUGGUGCUC

.((((((((((((((((..(((((((((.&.....))))))..))))))..))))))..)))))))). -18.60

>SINFRUG00000143809 hs-mir-29b 875 882

UAGCACCAUUUGAAAUCAGUGUU&CUGGACUGUGAAUAUUAACAUGUGUUAUUAUGUCUGUGGUGCUU

.((((((((((((((((..(((((((((.&..)))))).....))))))..)))))))). -17.97

miRNA: mir-29b

Human predicted target: ENSG00000171215

Mouse predicted target: ENSMUSG00000034832

Rat predicted target: ENSRNOG00000011387

Fugu predicted target: SINFRUG00000143809

mir-29b ENSG00000171215 2395 nt UTR 5 hits 53 1070 1084 1101 1471

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>ENSG00000171215 hs-mir-29b 53 60

UAGCACCAUUUGAAAUCAGUGUU&UACCUCAGCGUCGGGCCUGGCCCGAGCUGUCUCUGUGGUGCUU

.((((((((((..((...(((...&.....))))..)).)))))). -21.70

>ENSG00000171215 hs-mir-29b 1070 1077

UAGCACCAUUUGAAAUCAGUGUU&AAACAGGAAGUUGAACCCAAGCUGUGAAAAGCCAGUGGUGCUC

.((((((((((..((...(((...&.....)))).....)).)))))). -20.80

>ENSG00000171215 hs-mir-29b 1084 1091

UAGCACCAUUUGAAAUCAGUGUU&ACCCAAGCUGUGAAAAGCCAGUGGUGCUCUGUGCAUGGUGCUGU

((((((((((((..((...(((...&.....))))..)).)).....)))))). -
22.40

>ENSG00000171215 hs-mir-29b 1101 1108

UAGCACCAUUUGAAAUCAGUGUU&CCAGUGGUGCUCUGUGCAUGGUGCUGUGCGGAGCCUGGUGCUGU

((((((((((((((..((...(((...&.....))))..))))..)))))). -
22.00

>ENSG00000171215 hs-mir-29b 1471 1478

UAGCACCAUUUGAAAUCAGUGUU&CUGGUGCAUUCAUUCGGUUCUUUGAAAUGAGAAUGUGGUGCUU

.((((((((((..(((.....&.....)))).....)))))). -18.90

mir-29b ENSMUSG00000034832 2000 nt UTR 2 hits 51 1367

--1-----1-----

>ENSMUSG00000034832 hs-mir-29b 51 58

UAGCACCAUUUGAAAUCAGUGUU&GUACCUCAGCGUCGGGCCCGGCCCGAGCUGCUCUGUGGUGCUU

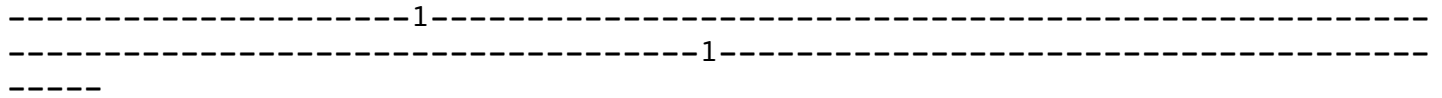
.((((((((((..((...(((...&.....))))..)).)))))). -20.60

>ENSMUSG00000034832 hs-mir-29b 1367 1374

UAGCACCAUUUGAAAUCAGUGUU&GGUGCAUUCAUUCAGCUCUUUGAAAUGAGAACGUUGGUGCUU

.(((((((((((((...(((((.&...))))))...)))))))). -16.70

mir-29b ENSRNOG00000011387 3807 nt UTR 2 hits 540 2751



>ENSRNOG00000011387 hs-mir-29b 540 547

UAGCACCAUUUGAAAUCAGUGUU&CAUGCUCUACACAACAGCCUGAACCCGGCCUACGGUGGUGCUGA

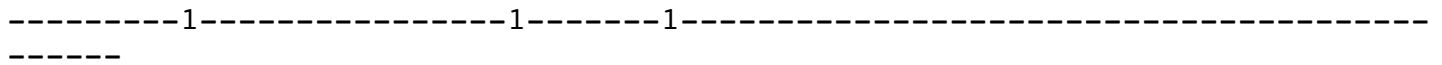
(((((((((((((...(((((.&...))))))...)))))))). -20.70

>ENSRNOG00000011387 hs-mir-29b 2751 2758

UAGCACCAUUUGAAAUCAGUGUU&CAUGCUCUACACAACAGCCUGAACCCGGCCUACGGUGGUGCUGA

(((((((((((((...(((((.&...))))))...)))))))). -20.70

mir-29b SINFRUG00000143809 2000 nt UTR 3 hits 241 665 875



>SINFRUG00000143809 hs-mir-29b 241 248

UAGCACCAUUUGAAAUCAGUGUU&GGCAAAUUCUGCAACACACACCUUGUCAAAAUAUCUGGUGCUU

.((((((((((((...(((((.&...))))))...)))))))). -20.20

>SINFRUG00000143809 hs-mir-29b 665 672

UAGCACCAUUUGAAAUCAGUGUU&CUGCUUUGUUUAUGCAAAAUGAACUUUCUUGUGUUGGUGCUC

.(((((((((((...(((((.&...))))))...)))))))). -18.60

>SINFRUG00000143809 hs-mir-29b 875 882

UAGCACCAUUUGAAAUCAGUGUU&CUGGACUGUGAAUAUUAACAUGUGUUAUUAUGUCUGUGGUGCUU

.((((((((((..((...(((((.(&..).)))).....)))))))). -17.97

miRNA: mir-30b

Human predicted target: ENSG00000108604

Mouse predicted target: ENSMUSG00000020710

Rat predicted target: ENSRNOG00000010557

Fugu predicted target: SINFRUG00000136799

Hs Gene description: SWI/SNF-RELATED MATRIX-ASSOCIATED ACTIN-DEPENDENT
REGULATOR OF CHROMATIN D2; RSC6P; MAMMALIAN CHROMATIN REMODELING COMPLEX
BRG1-ASSOCIATED FACTOR 60B; SWP73-LIKE PROTEIN; CHROMATIN REMODELING
COMPLEX BAF60B SUBUNIT; SWI/SNF COMPLEX 60 KDA SUBUNIT B.
[Source:RefSeq;Acc:NM_003077]

mir-30b ENSG00000108604 2854 nt UTR 1 hits 316

-----1-----

>ENSG00000108604 hs-mir-30b 316 323

UGUAAACAUCUACACUCAGC&AAGACAUUUCGAAACCAAAGGCUGCUGGGUUUGCAUGUUUACAG

((((((((((((..((...(((((((&.....)))))))). -23.10

mir-30b ENSMUSG00000020710 2879 nt UTR 1 hits 339

-----1-----

>ENSMUSG00000020710 hs-mir-30b 339 346

UGUAAACAUCUACACUCAGC&CAGACAUUUCGAAACCAAAGGCUGCUGGGUUUGCAUGUUUACAG

((((((((((((..((...(((((((&.....)))))))). -23.10

mir-30b ENSRNOG00000010557 2889 nt UTR 1 hits 331

-----1-----

>ENSRNOG00000010557 hs-mir-30b 331 338
UGUAAACAUCUACACUCAGC&CAGACAUUUCGAAACCAAAGGCUGCUGGGUUUGCAUGUUUACAG
((((((((((.(...(((((((&.....)))))))).).)))))))). -23.10

mir-30b SINFRUG00000136799 2000 nt UTR 2 hits 636 906
-----1-----1-----

>SINFRUG00000136799 hs-mir-30b 636 643
UGUAAACAUCUACACUCAGC&AAACGCCACGUGGUGUCUUAUUUUGAAAGGGUUUAUGUUUACC
.((((((((((((((((.....&.....)))))))).).)))))))). -15.50

>SINFRUG00000136799 hs-mir-30b 906 913
UGUAAACAUCUACACUCAGC&AUUAGUCAGAUUUUUCUUAUAGUCUCCUCUGGGAAUGUUUACAU
((((((((((((((((.....&.....)))))))).).)))))))). -18.00

miRNA: mir-30b

Human predicted target: ENSG00000109586

Mouse predicted target: ENSMUSG00000031608

Rat predicted target: ENSRNOG00000012037

Fugu predicted target: SINFRUG00000140751

Hs Gene description: POLYPEPTIDE N-ACETYLGALACTOSAMINYLTRANSFERASE 7; UDP-N-ACETYL-ALPHA-D-GALACTOSAMINE. [Source:RefSeq;Acc:NM_017423] NM_017423

mir-30b ENSG00000109586 4249 nt UTR 3 hits 185 221 2628
-----11-----
-----1-----

>ENSG00000109586 hs-mir-30b 185 192

UGUAAACAUCCUACACUCAGC&UGUGAUUUUACAAUAACAUUAUCAUCUGCAGUUACUGUUUACAA
((((((((.....(((((.&.....)))))))).)))). -14.30

>ENSG00000109586 hs-mir-30b 221 228

UGUAAACAUCCUACACUCAGC&GUUUACAAGACUGCUUUUACCUUAAACUUUGUAGAUGUUUACAU
((((((((((((.....&.....)))))))))))). -19.40

>ENSG00000109586 hs-mir-30b 2628 2635

UGUAAACAUCCUACACUCAGC&GCCUAUUAGAAGCAAACAUGCCUCAAUAUUGUUUACAA
((((((((.....&.....))))))))). -12.30

mir-30b ENSMUSG00000031608 3587 nt UTR 2 hits 361 395

-----11-----

>ENSMUSG00000031608 hs-mir-30b 361 368

UGUAAACAUCCUACACUCAGC&UGUGAUUUUACAAUAACAUUAUCAUCUGCAGUGACUGUUUACAA
((((((((.....(((((.&.....)))))))).)))). -17.30

>ENSMUSG00000031608 hs-mir-30b 395 402

UGUAAACAUCCUACACUCAGC&CUGUUUACAAAACUGCUCUUAACCUUAAACUCUAGAUGUUUACAU
((((((((.....&.....))))))))). -16.30

mir-30b ENSRNOG00000012037 2180 nt UTR 2 hits 191 225

-----11-----

>ENSRNOG00000012037 hs-mir-30b 191 198

UGUAAACAUCCUACACUCAGC&GUGAUUUUACAAUAUAUUAUCAUCUGCAGUUACUGUUUACAA
((((((((.....(((((.&.....)))))))).)))). -14.30

>ENSRNOG00000012037 hs-mir-30b 225 232

UGUAAACAUCCUACACUCAGC&CUGUUUACAAAACUGCUCUUAACCUUAAACUCUAGAUGUUUACAU

((((((((((.....&.....)))))))))). -16.30

mir-30b SINFRUG00000140751 2000 nt UTR 2 hits 149 1572

-----1-----1-----

>SINFRUG00000140751 hs-mir-30b 149 156

UGUAAACAUCUACACUCAGC&UCCACAUGUUAAAUGUAGGGGACAAAUGUUUCUGUGUUUACU

.((((((((((((.....&.....)))))).....)))))). -17.73

>SINFRUG00000140751 hs-mir-30b 1572 1579

UGUAAACAUCUACACUCAGC&CGGUGCAUUAUGGGGCUUCAUCAUUGUGUUCUCCUGUUUACAU

((((((((((((((.....&.....)))))).....)))).....)))))). -14.85

miRNA: mir-30b

Human predicted target: ENSG00000114353

Mouse predicted target: ENSMUSG00000032562

Rat predicted target: ENSRNOG00000016592

Fugu predicted target: SINFRUG00000136406

Hs Gene description: GUANINE NUCLEOTIDE-BINDING PROTEIN G(I), ALPHA-2
SUBUNIT (ADENYLATE CYCLASE-INHIBITING G ALPHA PROTEIN).

[Source:SWISSPROT;Acc:P04899] NM_002070

mir-30b ENSG00000114353 2567 nt UTR 2 hits 405 682

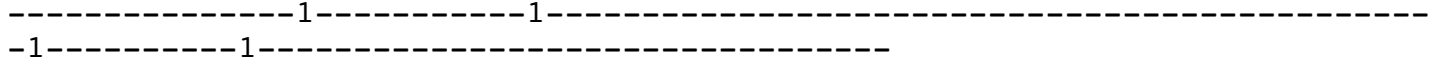
-----1-----1-----

>ENSG00000114353 hs-mir-30b 405 412

UGUAAACAUCUACACUCAGC&CCCAACACCAGCCCUGCCCCAGCCCAAGUCCAAAUGUUUACAG

((((((((((.....((.....&.....)).....)))))))))). -13.70

>ENSG00000114353 hs-mir-30b 682 689
UGUAAACAUCCUACACUCAGC&CUUCCAAGUGACUCCGUGCCUUGAGUGUGUCUGCGUGUUUACAC
((((((((((.((((((((((((.&.....))))))))))....).)))))))). -23.10
mir-30b ENSMUSG00000032562 2992 nt UTR 4 hits 398 683 1880 2165



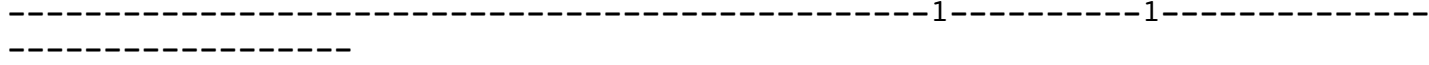
>ENSMUSG00000032562 hs-mir-30b 398 405
UGUAAACAUCCUACACUCAGC&GCUUUGUCCAACACCAGCCCUGACCCAAGUCCAAAUGUUUACAG
((((((((((.(.....((((((.&.....))))....).)))))))). -14.10

>ENSMUSG00000032562 hs-mir-30b 683 690
UGUAAACAUCCUACACUCAGC&CUUUCAGCGAUUCCGUGCCUUGAGUGUGUCUGCGUGUUUACAC
((((((((((.((((((((((((.&.....))))))))))....).)))))))). -23.10

>ENSMUSG00000032562 hs-mir-30b 1880 1887
UGUAAACAUCCUACACUCAGC&GCUUUGUCCAACACCAGCCCUGACCCAAGUCCAAAUGUUUACAG
((((((((((.(.....((((((.&.....))))....).)))))))). -14.10

>ENSMUSG00000032562 hs-mir-30b 2165 2172
UGUAAACAUCCUACACUCAGC&CUUUCAGCGAUUCCGUGCCUUGAGUGUGUCUGCGUGUUUACAC
((((((((((.((((((((((((.&.....))))))))))....).)))))))). -23.10

mir-30b ENSRNOG00000016592 2294 nt UTR 2 hits 1202 1486



>ENSRNOG00000016592 hs-mir-30b 1202 1209
UGUAAACAUCCUACACUCAGC&GCUUUGUCCAACACCAGCCCUGACCCAAGUCCAAAUGUUUACAG
((((((((((.(.....((((((.&.....))))....).)))))))). -14.10

>ENSRNOG00000016592 hs-mir-30b 1486 1493

UGUAAACAUCUACACUCAGC&CUUUCAGUGAUUCCGUGCCUUGAGUGUUUCUGCCUGUUUACAC
((((((((((..((((((&.....)))))))).)...)))). -21.30

mir-30b SINFRUG00000136406 2000 nt UTR 2 hits 784 1749

-----1-----1-----

>SINFRUG00000136406 hs-mir-30b 784 791

UGUAAACAUCUACACUCAGC&CUUUAUAUAUAUAUAUAUGUUUGUGCCUUGAUAUCUGUUUACAC
((((((((((..((((((&.....)))))))).)...)))). -11.70

>SINFRUG00000136406 hs-mir-30b 1749 1756

UGUAAACAUCUACACUCAGC&AGAUGCAGACAGUAAAGACAUUGGAAGGUCAGGUAUGUUUACAA
((((((((((..((((((&.....)))))))).)...)))). -19.40

miRNA: mir-30b

Human predicted target: ENSG00000132130

Mouse predicted target: ENSMUSG00000018698

Rat predicted target: ENSRNOG00000002812

Fugu predicted target: SINFRUG00000142325

Hs Gene description: LIM/HOMEBOX PROTEIN LHX1 (HOMEBOX PROTEIN LIM-1).
[Source:SWISSPROT;Acc:P48742] NM_005568

mir-30b ENSG00000132130 2000 nt UTR 2 hits 845 1028

-----1-----1-----

>ENSG00000132130 hs-mir-30b 845 852

UGUAAACAUCUACACUCAGC&AAAAAAAAAAGACUAUUGAACUAAAAACAGUCAACUGUUUACGU

((((((((.....&.....)))))))). -11.30

>ENSG00000132130 hs-mir-30b 1028 1035

UGUAAACAUCUACACUCAGC&CUUUCGGCUCACUGUGCUAGUAUGUAAAAAGGUGUUGUUUACAC

(((((((((((((.....&.....)))))))).)))). -17.70

mir-30b ENSMUSG00000018698 2170 nt UTR 2 hits 938 1119

-----1-----1-----

>ENSMUSG00000018698 hs-mir-30b 938 945

UGUAAACAUCUACACUCAGC&AAAAAGAAAAGACUAUCGAACUAAAAACAGUCAACUGUUUACGU

((((((((.....&.....)))))))). -11.30

>ENSMUSG00000018698 hs-mir-30b 1119 1126

UGUAAACAUCUACACUCAGC&CUUGCGGCUCACUGUGCUAGUAUGUAAAAAGGUGUUGUUUACAC

(((((((((((((.....&.....)))))))).)))). -17.70

mir-30b ENSRNOG00000002812 2086 nt UTR 2 hits 943 1126

-----1-----1-----

>ENSRNOG00000002812 hs-mir-30b 943 950

UGUAAACAUCUACACUCAGC&AAAAAAAAAAGACUAUUGAACUAAAAACAGUCAACUGUUUACGU

((((((((.....&.....)))))))). -11.30

>ENSRNOG00000002812 hs-mir-30b 1126 1133

UGUAAACAUCUACACUCAGC&CUUGCGGCUCACUGUGCUAGUAUGUAAAAAGGUGUUGUUUACAC

(((((((((((((.....&.....)))))))).)))). -17.70

mir-30b SINFRUG00000142325 2000 nt UTR 2 hits 920 1095

-----1-----1-----

>SINFRUG00000142325 hs-mir-30b 920 927

UGUAAACAUCUACACUCAGC&CACAACACACUUAACUGUUACAUUUGUGGCACUGAUGUUUACGA
((((((((((((((((.....&.....)))))))))..)). -18.80

>SINFRUG00000142325 hs-mir-30b 1095 1102

UGUAAACAUCUACACUCAGC&CAUUUUCAGCUAUUUACAACCUUGUUUAUUUGCAUUGUUUACC
.((((((((.....&.....))))))..). -10.70

miRNA: mir-30b

Human predicted target: ENSG00000136052

Mouse predicted target: ENSMUSG00000034591

Rat predicted target: ENSRNOG00000008713

Fugu predicted target: SINFRUG00000137981

Hs Gene description: NM_032148

mir-30b ENSG00000136052 2000 nt UTR 1 hits 277

-----1-----

>ENSG00000136052 hs-mir-30b 277 284

UGUAAACAUCUACACUCAGC&UCCAGCUCUGAAAUAUUAGGAAAGAAUAUAGGAUGUUUACAG
((((((((((((((((.....&.....)))))))))..)). -22.50

mir-30b ENSMUSG00000034591 2000 nt UTR 1 hits 271

-----1-----

>ENSMUSG00000034591 hs-mir-30b 271 278

UGUAAACAUCUACACUCAGC&UCACAUUCUAAAGUUAUUAGGAAAGAAUUUAGGAUGUUUACAA
((((((((((((((((.....&.....)))))))))..)). -22.40

mir-30b ENSRNOG00000008713 2000 nt UTR 1 hits 274

-----1-----

>ENSRNOG00000008713 hs-mir-30b 274 281

UGUAAACAUCCUACACUCAGC&UCACACUCUAAAGUCAAUUAGGGAAGAAUAUAGGAUGUUUACAA

((((((((((((((.....&.....)))))))))))). -22.50

mir-30b SINFRUG00000137981 2000 nt UTR 2 hits 662 1787

-----1-----1--

>SINFRUG00000137981 hs-mir-30b 662 669

UGUAAACAUCCUACACUCAGC&GGGGGUAGUUAUCAGCGUUUGCAUGC UAAUCACCUGUUUACAG

((((((((..(((.(...&)).))).....)))))). -15.15

>SINFRUG00000137981 hs-mir-30b 1787 1794

UGUAAACAUCCUACACUCAGC&AAUAUGGUCACAUGC UAACACAGUGAAGAGAAUUCUGUUUACC

.(((((((((((((.(((.(...&.....)))).....)))))).)))). -15.20

miRNA: mir-30b

Human predicted target: ENSG00000185112

Mouse predicted target: ENSMUSG00000046546

Rat predicted target: ENSRNOG00000001728

Fugu predicted target: SINFRUG00000124355

Hs Gene description: NM_153690

mir-30b ENSG00000185112 2445 nt UTR 2 hits 519 609

-----1--1-----

>ENSG00000185112 hs-mir-30b 519 526
UGUAAACAUCCUACACUCAGC&UAGCCCUUGGUUCUUUUUGGUGCAAGAAUUCUGGCUGUUUACC
.(((((((.(.(.(((.&.....))))).)))).) -14.30

>ENSG00000185112 hs-mir-30b 609 616
UGUAAACAUCCUACACUCAGC&UGGGGGGUGGGGGGAGAUGAAAGAGAGUCGCGUUUUGUUUACAG
(((((((.(.(.(((.&))))).)))).) -20.90

mir-30b ENSMUSG00000046546 2846 nt UTR 4 hits 487 577 1366 1391

-----1--1-----11-----

>ENSMUSG00000046546 hs-mir-30b 487 494
UGUAAACAUCCUACACUCAGC&CUGCCCCAGUUCUUUCGGAUAGGGGAGCUUGGGCUGUUUACC
.(((((((.(.(.(((.&.....))))).)))).) -20.30

>ENSMUSG00000046546 hs-mir-30b 577 584
UGUAAACAUCCUACACUCAGC&CUUGGGGGGGGGGGCAGUGUAUGAAAGUCGUGUUUUGUUUACAG
(((((((.(.(.(((.&))))).)))).) -18.04

>ENSMUSG00000046546 hs-mir-30b 1366 1373
UGUAAACAUCCUACACUCAGC&UUUGGAGAGGUCAGUGUAAAUUCAACUGCCCACGCUGUUUACAC
(((((((.(.(.(((.&.....))))).)))).) -13.85

>ENSMUSG00000046546 hs-mir-30b 1391 1398
UGUAAACAUCCUACACUCAGC&CUGCCCACGCUGUUUACACGAGUCACGUGGAUGGCUGUUUACU
.(((((((.(.(.(((.&.....))))).)))).) -19.46

mir-30b ENSRNOG00000001728 2000 nt UTR 3 hits 511 604 1397

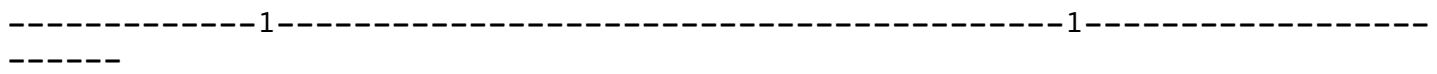
-----1--1-----1-----

>ENSRNOG00000001728 hs-mir-30b 511 518
UGUAAACAUCUACACUCAGC&CUGCCCCAGUUCUUUUGGAUAUGAGAGCUUGGGCUGUUUACC
.(((((((((((((...&.....)))))))).))))). -20.50

>ENSRNOG00000001728 hs-mir-30b 604 611
UGUAAACAUCUACACUCAGC&UGGGGGGCGGAGGGCGGGGUAUGAAAGUUGUGUUUUGUUUACAG
((((((((((((((...&.....)))))))).))))). -19.09

>ENSRNOG00000001728 hs-mir-30b 1397 1404
UGUAAACAUCUACACUCAGC&AAUUCAACUGCCCACACUGUUUAGACGUGUAUGGCUGUUUACU
.((((((((((((((...&.....)))))))).))))). -21.70

mir-30b SINFRUG00000124355 2000 nt UTR 2 hits 329 1397



>SINFRUG00000124355 hs-mir-30b 329 336
UGUAAACAUCUACACUCAGC&UGGGAAUCCGAGCGGCAGGUUUUGGGGACGCUGCGUGUUUACAA
((((((((((((((...&.....)))))))).))))). -18.46

>SINFRUG00000124355 hs-mir-30b 1397 1404
UGUAAACAUCUACACUCAGC&UGAGAUGAGAGAUUAUUUAAAUGAAUCCACCAACUUGUUUACAU
((((((((((((((...&.....)))))))).))))). -15.00

miRNA: mir-34

Human predicted target: ENSG00000117308

Mouse predicted target: ENSMUSG00000028671

Rat predicted target: ENSRNOG00000009712

Fugu predicted target: SINFRUG00000129461

Hs Gene description: UDP-GLUCOSE 4-EPIMERASE (EC 5.1.3.2)
(GALACTOWALDENASE) (UDP- GALACTOSE 4-EPIMERASE).
[Source:SWISSPROT;Acc:Q14376] NM_000403

mir-34 ENSG00000117308 2350 nt UTR 2 hits 510 1507

-----1-----1-----

>ENSG00000117308 hs-mir-34 510 517

UGGCAGUGUCUUAGCUGGUUGU&ACAUGGAGACAGAAGACGAGACACAACUCCUCCCCACUGCCU

.((((((((.....((..(((((((&.....)))))))).)).....)))))). -21.80

>ENSG00000117308 hs-mir-34 1507 1514

UGGCAGUGUCUUAGCUGGUUGU&CUCCCAUGGCACUGGAGUAUGGCCAGGUCCUUGGCACUGCCAU

((((((((((.....((..(((((((&.....)))))))).)).....)))))). -31.60

mir-34 ENSMUSG00000028671 2319 nt UTR 2 hits 1443 1880

-----1-----
-1-----

>ENSMUSG00000028671 hs-mir-34 1443 1450

UGGCAGUGUCUUAGCUGGUUGU&CUCCCCGUGGCACUGAAGGAUGGCCAGGUCCUUGGCACUGCCAU

((((((((((.....((..(((((((&.....)))))))).)).....)))))). -31.80

>ENSMUSG00000028671 hs-mir-34 1880 1887

UGGCAGUGUCUUAGCUGGUUGU&AGGAGACUGCUGGAGGCUUGAAGGGAGCAGGUGGGCACUGCCU

.((((((((((((.....((..(((((((&.....)))))))).)).....)))))). -27.40

mir-34 ENSRNOG00000009712 2319 nt UTR 2 hits 1438 1902

-----1-----
--1-----

>ENSRNOG00000009712 hs-mir-34 1438 1445

UGGCAGUGUCUUAGCUGGUUGU&CUCGCCGUGGCAUUGAAGGAUGGCCAGGUCCUUGGCACUGCCAU

((((((((((((..(((((..(&.....)))))..)))).)))).)))). -31.80

>ENSRNOG00000009712 hs-mir-34 1902 1909

UGGCAGUGUCUUAGCUGGUUGU&AGGAGACUGCUGGAGGCUUGAAGGGAGCAGGUGGGCACUGCCC

.((((((((((..(((((..(&.....)))))..)))).)))). -27.00

mir-34 SINFRUG00000129461 2000 nt UTR 1 hits 1991

-----1

>SINFRUG00000129461 hs-mir-34 1991 1998

UGGCAGUGUCUUAGCUGGUUGU&GUCUUCUCCUCCAGGCAGCCUCAGAGGUGGUUCAACACUGCCGA

((((((((((((..(((((..(&.....)))))..)))).)))). -26.41

miRNA: mir-34

Human predicted target: ENSG00000148400

Mouse predicted target: ENSMUSG00000026923

Rat predicted target: ENSRNOG00000019322

Fugu predicted target: SINFRUG00000127119

Hs Gene description: NEUROGENIC LOCUS NOTCH HOMOLOG PROTEIN 1 PRECURSOR (NOTCH 1) (HN1) (TRANSLOCATION-ASSOCIATED NOTCH PROTEIN TAN-1). [Source:SWISSPROT;Acc:P46531] NM_017617

mir-34 ENSG00000148400 3627 nt UTR 4 hits 909 2299 2398 2714

-----1-----
-----1---1-----1-----

>ENSG00000148400 hs-mir-34 909 916

UGGCAGUGUCUUAGCUGGUUGU&CACACGGAGGCAUCCUACCCUUUCUGGGGAAAGACACUGCCU

.((((((((((..(((((..(&.....)))))..)))).)))). -25.90

>ENSG00000148400 hs-mir-34 2299 2306
UGGCAGUGUCUUAGCUGGUUGU&GCCAGCCUCACACAAGGGUGGGCCCCUUCUCUCCCCACUGCCU
.(((((((((((((((((.....)))))).....)))))))). -21.86

>ENSG00000148400 hs-mir-34 2398 2405
UGGCAGUGUCUUAGCUGGUUGU&GUGGGGAGUCUGAGAUGCCUCUUUGGAUUGCAAAGCACUGCCU
.((((((((((((((((((.....)))))).....)))))))). -21.55

>ENSG00000148400 hs-mir-34 2714 2721
UGGCAGUGUCUUAGCUGGUUGU&CAUCACUCAGUACAGCCACAGACAGCCUGAGCGUCCACUGCCAA
((((((((((((((((((((.....)))))).....)))))))). -28.20

mir-34 ENSMUSG00000026923 3625 nt UTR 3 hits 187 458 800
-----1-----1-----1-----

>ENSMUSG00000026923 hs-mir-34 187 194
UGGCAGUGUCUUAGCUGGUUGU&AGUAUUUAUUUAUGUACUUUUUUUCCACAGAAACACUGCCU
.((((((((((((((((.....&.....)))))).....)))))))). -21.60

>ENSMUSG00000026923 hs-mir-34 458 465
UGGCAGUGUCUUAGCUGGUUGU&AACUGCCAUGGCCAGAAUUGCCCCUCCCCACACUCACUGCCC
.((((((((((((((((.....(((((.....&.....)))))).....)))))))). -23.57

>ENSMUSG00000026923 hs-mir-34 800 807
UGGCAGUGUCUUAGCUGGUUGU&UAAGCCAUGCAGGGUGUGGUGCCUCCUAGAGAAAACACUGCCU
.((((((((((((((((((.....&.....)))))).....)))))))). -25.05

mir-34 ENSRNOG00000019322 2384 nt UTR 3 hits 193 523 890
-----1-----1-----1-----

>ENSRNOG00000019322 hs-mir-34 193 200

-----1-----1-----

>ENSG00000168758 hs-mir-34 162 169
UGGCAGUGUCUUAGCUGGUUGU&ACCCGGCCAUGAGGACCUGCUCUGCUCAGCACGGGCACUGCCAC
(((((((((((..((((((..(&.....)))..)))..)))))))). -30.60

>ENSG00000168758 hs-mir-34 465 472
UGGCAGUGUCUUAGCUGGUUGU&GGGAAGGGGUCGUAUCACUUUGUCUCUCCUACCCCCACUGCCC
..(((((((((((..((((((..(&.....)))..)))..)))))))). -17.40

mir-34 ENSMUSG00000026121 2000 nt UTR 2 hits 119 164

-----1-1-----

>ENSMUSG00000026121 hs-mir-34 119 126
UGGCAGUGUCUUAGCUGGUUGU&GACAUGGCAGGGGCACUUGCUCUGCCUGGGACAGACACUGCCC
..(((((((((((..((((((..(&.....)))..)))..)))))))). -25.70

>ENSMUSG00000026121 hs-mir-34 164 171
UGGCAGUGUCUUAGCUGGUUGU&CAUUUGCCCGGCCGUGAGGACCUGCUCAGCAUGGGGCACUGCCAC
((((((((((((..(((((((..(&.....)))..)))..)))))))). -30.80

mir-34 ENSRNOG00000016254 2862 nt UTR 1 hits 136

-----1-----

>ENSRNOG00000016254 hs-mir-34 136 143
UGGCAGUGUCUUAGCUGGUUGU&CAUUUGCCCAGCCAUGAGGACCUGCUCAGCAUGGGGCACUGCCAC
((((((((((((..(((((((..(&.....)))..)))..)))))))). -30.80

mir-34 SINFRUG00000125424 2000 nt UTR 3 hits 1158 1174 1644

-----2-----1-----

>SINFRUG00000125424 hs-mir-34 1158 1165
UGGCAGUGUCUUAGCUGGUUGU&UUAUAUCUAAAUGUUUGGAGAGGGAGGAAAACUUGCACUGCCAA
((((((((((((((..(..(.....&.....).)).)).....)))).)).). -21.40

>SINFRUG00000125424 hs-mir-34 1174 1181
UGGCAGUGUCUUAGCUGGUUGU&GGAGAGGGAGGAAAACUUGCACUGCCAAGAACGGACACUGCCC
.((((((((((((((..(((..(((&.....).))))..)).....)))).)).). -28.20

>SINFRUG00000125424 hs-mir-34 1644 1651
UGGCAGUGUCUUAGCUGGUUGU&AGUCAAAUAUUCUGCAUUGAUGUUGACUAAUUGCACACUGCCC
.((((((((((..(((..(((..&.....)))).))..)).....)))).). -21.40

miRNA: mir-34
Human predicted target: ENSG00000179036
Mouse predicted target: ENSMUSG00000020894
Rat predicted target: ENSRNOG00000006989
Fugu predicted target: SINFRUG00000131186
Hs Gene description: VESICLE-ASSOCIATED MEMBRANE PROTEIN 2 (VAMP-2)
(SYNAPTOBREVIN 2). [Source:SWISSPROT;Acc:P19065] NM_014232

mir-34 ENSG00000179036 3727 nt UTR 6 hits 1129 1256 1309 3456
3583 3636
-----1---1-1-----
-----1---1-1--
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>ENSG00000179036 hs-mir-34 1129 1136
UGGCAGUGUCUUAGCUGGUUGU&AGAGGGGUGGCUACCAGUGUGUGUGGGGGUCAUCACUGCCU
.((((((((((..(((..(((..(((&.....).))))..)).....)))).)).). -25.80

>ENSG00000179036 hs-mir-34 1256 1263
UGGCAGUGUCUUAGCUGGUUGU&AACCCUCCUCCCCAAUUUGGGGGGUGUUGCCCCAUCACUGCCC
.(((((((((((((..((..(((..&.....))))))..)))).)))))))). -18.70

>ENSG00000179036 hs-mir-34 1309 1316
UGGCAGUGUCUUAGCUGGUUGU&ACUGCCCCCCCUGAAUUUAGGGUGGGGGUACUAGUCACUGCCAA
((((((((((.....((((((...&.....)))))))))..)))))))). -22.80

>ENSG00000179036 hs-mir-34 3456 3463
UGGCAGUGUCUUAGCUGGUUGU&AGAGGGGUGGCUACCAGUGUGUGUGUGGGGGUCAUCACUGCCU
.(((((((((((((..(((..(((..&.....))))))..)))).)))))))). -25.80

>ENSG00000179036 hs-mir-34 3583 3590
UGGCAGUGUCUUAGCUGGUUGU&AACCCUCCUCCCCAAUUUGGGGGGUGUUGCCCCAUCACUGCCC
.(((((((((((((..((..(((..&.....))))))..)))).)))))))). -18.70

>ENSG00000179036 hs-mir-34 3636 3643
UGGCAGUGUCUUAGCUGGUUGU&ACUGCCCCCCCUGAAUUUAGGGUGGGGGUACUAGUCACUGCCAA
((((((((((.....((((((...&.....)))))))))..)))))))). -22.80

mir-34 ENSMUSG00000020894 3731 nt UTR 3 hits 1116 1246 1298
-----1---1-1-----

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>ENSMUSG00000020894 hs-mir-34 1116 1123
UGGCAGUGUCUUAGCUGGUUGU&UUUGAGGAGGGGUGGCUCCAGUGUGUGGGGGUCAUCACUGCCU
.(((((((((((((((..(((..(((..&.....))))))..)))).)))))))). -24.40

>ENSMUSG00000020894 hs-mir-34 1246 1253
UGGCAGUGUCUUAGCUGGUUGU&UCCUCCCCAGUCUGGGGGGGGGUAAUACCCCCAUCACUGCCC
.(((((((((((((((((((..&.....))))))..)))).)))))))). -25.16

>ENSMUSG00000020894 hs-mir-34 1298 1305
UGGCAGUGUCUUAGCUGGUUGU&GACUGCCCCCUGUAUUCAGGGUGGGGGUACUAGUCACUGCCAA
((((((((.....((((((...&.....))))))))))))). -22.80

mir-34 ENSRNOG00000006989 4248 nt UTR 4 hits 1629 1761 1813 2899
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>ENSRNOG00000006989 hs-mir-34 1629 1636
UGGCAGUGUCUUAGCUGGUUGU&UGAGGAGGGGUGGCUCUAGUGUGUGUGGGGGUCAUCACUGCCU
(((((((((((((.((((.((((.((&.....)))))))).)))))).))))). -21.40

>ENSRNOG00000006989 hs-mir-34 1761 1768
UGGCAGUGUCUUAGCUGGUUGU&CCUCCCCAAUCCUGGGGGGGGGUAUUACCCCCCAUCACUGCCC
(((((((((((((((.((((.((((.((&.....)))))))))).)))))).))))). -21.16

>ENSRNOG00000006989 hs-mir-34 1813 1820
UGGCAGUGUCUUAGCUGGUUGU&GACUGCCCCCUGUAUUCAGGGUGGGGGUACUAGUCACUGCCAA
((((((((((((.....((((((...&.....))))))))))))))))). -22.80

>ENSRNOG00000006989 hs-mir-34 2899 2906
UGGCAGUGUCUUAGCUGGUUGU&GGUUGCCCUCUGUAUUCAGGUCAUGAGGGACUAGUCACUGCCAG
((((((((((((.....(((((((.((&.....))))))))))))))))))))). -24.50

mir-34 SINFRUG00000131186 2000 nt UTR 2 hits 903 1844
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1-----

>SINFRUG00000131186 hs-mir-34 903 910
UGGCAGUGUCUUAGCUGGUUGU&GUAUUUGUCUAAAGCUGCCCCCCCUCUCCCCCCCCCACUGCCC
(((((((((((((.((((.(.....&.....)))))))).)))))).))))). -18.10

>SINFRUG00000131186 hs-mir-34 1844 1851

UGGCAGUGUCUUAGCUGGUUGU&CUGGUGCGUUUUUUGUAAUCCGCUGUGCGUUAUACACUGCCAA

(((((((((.....((((((.....&.....)))))).)).....)))))))). -23.20

miRNA: mir-96

Human predicted target: ENSG00000103365

Mouse predicted target: ENSMUSG00000030872

Rat predicted target: ENSRNOG00000018599

Fugu predicted target: SINFRUG00000145164

Hs Gene description: ADP-RIBOSYLATION FACTOR BINDING PROTEIN GGA2 (GOLGI-LOCALIZED, GAMMA EAR-CONTAINING, ARF-BINDING PROTEIN 2) (GAMMA-ADAPTIN RELATED PROTEIN 2) (VEAR) (VHS DOMAIN AND EAR DOMAIN OF GAMMA-ADAPTIN). [Source:SWISSPROT;Acc:Q9UJY4] NM_138640

mir-96 ENSG00000103365 2000 nt UTR 1 hits 90

---1-----

>ENSG00000103365 hs-mir-96 90 97

UUUGGCACUAGCACAUUUUUGC&UCUAGUCAGGACUAAUCACGGUGUUUCAGUGCGGAGUGCCAAGA

(((((((((.....((((((.....&.....)))))).)).....)))))))). -25.40

mir-96 ENSMUSG00000030872 2923 nt UTR 1 hits 83

---1-----

>ENSMUSG00000030872 hs-mir-96 83 90

UUUGGCACUAGCACAUUUUUGC&CUGUCUGGUCGGGACUUGUUGUAAUGUAGUGCAGAGUGCCAAGG

(((((((((.....((((((.....&.....)))))).)).....)))))))). -24.40

mir-96 ENSRNOG00000018599 2000 nt UTR 1 hits 87

-----1-----

>ENSRNOG00000018599 hs-mir-96 87 94
UUUGGCACUAGCACAUUUUUGC&CUGUCUGGUUGGGACUCCUUGUAAUGUCGUGCAGAGUGCCAAGA
(((((((((((((.....(((&.....)))))).....)))))))). -24.40

mir-96 SINFRUG00000145164 2000 nt UTR 1 hits 925

-----1-----

>SINFRUG00000145164 hs-mir-96 925 932
UUUGGCACUAGCACAUUUUUGC&CUAUGUACAUUUGUGUAACAGGGGUGUUAGAUAAAGUGCCAAAU
(((((((((((((((.....(((&.....)))))).....)))))))). -21.20

miRNA: mir-96

Human predicted target: ENSG00000103723

Mouse predicted target: ENSMUSG00000025586

Rat predicted target: ENSRNOG00000019161

Fugu predicted target: SINFRUG00000122270

Hs Gene description: CYTOPLASMIC POLYADENYLATION ELEMENT BINDING PROTEIN;
CYTOPLASMIC POLYADENYLATION ELEMENT-BINDING PROTEIN.
[Source:RefSeq;Acc:NM_030594] NM_030594

mir-96 ENSG00000103723 2319 nt UTR 1 hits 1183

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>ENSG00000103723 hs-mir-96 1183 1190
UUUGGCACUAGCACAUUUUUGC&CCACAAAACUACUUGCCCCUCCUAGGGAAGCUGUGUGCCAAAG
((((((((((((.....&.....)))))).....)))))). -21.90

mir-96 ENSMUSG00000025586 2898 nt UTR 2 hits 41 1107

-1-----1-----

>ENSMUSG00000025586 hs-mir-96 41 48

UUUGGCACUAGCACAUUUUUGC&CAGCUAGAGGAGCUGGCCUUGCCCAGUGUCCUGUGGGUGCCAAAG

(((((((((((((((.....&.....)))))).)))))). -20.60

>ENSMUSG00000025586 hs-mir-96 1107 1114

UUUGGCACUAGCACAUUUUUGC&AUUUAACGAUUACUUGCCUCUCUAGGGAAGCUGUGUGCCAAAG

(((((((((((((((.....&.....)))))).)))))). -21.90

mir-96 ENSRNOG00000019161 3299 nt UTR 2 hits 1103 2340

-----1-----
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>ENSRNOG00000019161 hs-mir-96 1103 1110

UUUGGCACUAGCACAUUUUUGC&AUUUAGUUACUACUUGCCCCUCUAGGGAAGCUGUGUGCCAAAG

(((((((((((((((.....&.....)))))).)))))). -21.90

>ENSRNOG00000019161 hs-mir-96 2340 2347

UUUGGCACUAGCACAUUUUUGC&AUUUAGUUACUACUUGCCCCUCUAGGGAAGCUGUGUGCCAAAG

(((((((((((((((.....&.....)))))).)))))). -21.90

mir-96 SINFRUG000000122270 2000 nt UTR 1 hits 1131

-----1-----

>SINFRUG000000122270 hs-mir-96 1131 1138

UUUGGCACUAGCACAUUUUUGC&CCUGUCCAGUUGGAUAUAAAUGCAUAAAUAAGCUGUGCCAAAG

(((((((((((((((.....&.....)))))).)))))). -23.90

UUUGGCACUAGCACAUUUUUGC&GCCUUUCCUCAGUCCUUGAGAUCAUUGCUCUCCGUGCCAAAC

(((((((((.((((.((((....&.....))))))....))))). -17.80

>ENSMUSG00000019462 hs-mir-96 1281 1288

UUUGGCACUAGCACAUUUUUGC&CAAACUGGGUAGAUGGGUUGGGAGACUCUCAAAAUGUGCCAAGG

(((((((((.((((.((((....&.....))))))....))))). -17.66

>ENSMUSG00000019462 hs-mir-96 1821 1828

UUUGGCACUAGCACAUUUUUGC&UCUUCAUGUAUUGUUUGGCUUUCUGAGGGAUGUUAGUGCCAAAC

(((((((((.((((.((((....&.....))))))....))))). -24.70

mir-96 ENSRNOG00000015430 2000 nt UTR 2 hits 1226 1799

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>ENSRNOG00000015430 hs-mir-96 1226 1233

UUUGGCACUAGCACAUUUUUGC&GCCUUUCCUCAGACCUUGAGAUCAUUGCUCUCCGUGCCAAAC

(((((((((.((((.((((....&.....))))))....))))). -17.80

>ENSRNOG00000015430 hs-mir-96 1799 1806

UUUGGCACUAGCACAUUUUUGC&UCUCCAUGUGUUGUUUGGCUUUCUGAGGGAUGUUAGUGCCAAAC

(((((((((.((((.((((....&.....))))))....))))). -24.70

mir-96 SINFRUG00000131198 2000 nt UTR 1 hits 1320

-----1-----

>SINFRUG00000131198 hs-mir-96 1320 1327

UUUGGCACUAGCACAUUUUUGC&AGCAGAGGGUAACAUGAUCCAGACUGUUAUUGACAGUGCCAAU

.(((((((.((((.((((....&.....))))))....))))). -19.75

mir-96 SINFRUG00000131199 2000 nt UTR 2 hits 1051 1148

-----1--1-----

>SINFRUG00000131199 hs-mir-96 1051 1058
UUUGGCACUAGCACAUUUUUGC&GAUAUUCUGAUAUCUCGUUUUUACCAGCAUUCUUGGUGCCAAGU
((((((((((((.....(((&.....))))))))).. -18.30

>SINFRUG00000131199 hs-mir-96 1148 1155
UUUGGCACUAGCACAUUUUUGC&CAACUUGACUGUCAAGAUUUACCAUCAUAAAAAAGUGCCAAGC
((((((((((((.....&.....))))))))).. -17.20

mir-96 SINFRUG00000146652 2000 nt UTR 3 hits 549 641 1009
-----1---1-----1-----

>SINFRUG00000146652 hs-mir-96 549 556
UUUGGCACUAGCACAUUUUUGC&UUAAAACACUGAUCUCAUUUUUACCAGCGUUCUUGGUGCCAAGU
((((((((((((.....&.....))))))))).. -18.50

>SINFRUG00000146652 hs-mir-96 641 648
UUUGGCACUAGCACAUUUUUGC&AAAAUAUUAAGAGAAGCUGUGUGUUCUUAUAAGAAGUGCCAAAC
((((((((((((((((.....(((&.....))))))))).. -23.10

>SINFRUG00000146652 hs-mir-96 1009 1016
UUUGGCACUAGCACAUUUUUGC&GUUGUUUGUUUGAUUCUCUGAGUCCUGGCAGCCAUGUGCCAAGA
((((((((((..((.....(((&.....)))))).. -17.11

miRNA: mir-100
Human predicted target: ENSG00000132510
Mouse predicted target: ENSMUSG00000018476
Rat predicted target: ENSRNOG00000010142

Fugu predicted target: SINFRUG00000131193

Fugu predicted target: SINFRUG00000148279

mir-100 ENSG00000132510 3275 nt UTR 1 hits 320

-----1-----

>ENSG00000132510 hs-mir-100 320 327

AACCCGUAGAUCCGAACUUGUG&ACAAGGACCAGGCUCGCGCGCGGGGGUCACAUACGGGUUC

((((((((((((((((..(((((.&))))))..)).....))))))..)))). -22.50

mir-100 ENSMUSG00000018476 2147 nt UTR 1 hits 319

-----1-----

>ENSMUSG00000018476 hs-mir-100 319 326

AACCCGUAGAUCCGAACUUGUG&ACAAGGACCAGGCUCGCGCGCGGGGGUCACAUACGGGUUC

((((((((((((((((..(((((.&))))))..)).....))))))..)))). -22.50

mir-100 ENSRNOG00000010142 2000 nt UTR 1 hits 308

-----1-----

>ENSRNOG00000010142 hs-mir-100 308 315

AACCCGUAGAUCCGAACUUGUG&ACAAGGACCAGGCUCGCGCGCGGGGGUCACAUACGGGUUC

((((((((((((((((..(((((.&))))))..)).....))))))..)))). -22.50

mir-100 SINFRUG00000131193 2000 nt UTR 1 hits 1440

-----1-----

>SINFRUG00000131193 hs-mir-100 1440 1447

AACCCGUAGAUCCGAACUUGUG&AAAAAAAAAUCCUACUUUUGUCAGCUUCUCUAAAAUACGGGUUA

((((((((((.....(((..(((..&.....))))..)).....)))))). -17.50

mir-100 SINFRUG00000148279 2000 nt UTR 1 hits 642

-----1-----

>SINFRUG00000148279 hs-mir-100 642 649

AACCCGUAGAUCCGAACUUGUG&AAAAACGUACAA AUGGUCGGA AUGCUUCAAAUCAUACGGGUUU

(((((.....))))). -23.10

miRNA: mir-100

Human predicted target: ENSG00000163376

Mouse predicted target: ENSMUSG00000030031

Rat predicted target: ENSRNOG00000013390

Fugu predicted target: SINFRUG00000125449

Hs Gene description: T-CELL ACTIVATION KELCH REPEAT PROTEIN.
[Source:RefSeq;Acc:NM_032505] NM_032505

mir-100 ENSG00000163376 4825 nt UTR 1 hits 379

-----1-----

>ENSG00000163376 hs-mir-100 379 386

AACCCGUAGAUCCGAACUUGUG&GUCUAAACUUGUUUGAUGUGACUUUUAUUUUAAAACGGGUA

.(((((.....))))). -18.05

mir-100 ENSMUSG00000030031 2000 nt UTR 1 hits 358

-----1-----

>ENSMUSG00000030031 hs-mir-100 358 365

AACCCGUAGAUCCGAACUUGUG&GACAUCCAAACUGGUUAACGUGACUUUCUUUUAAACUACGGGUA

.((((((((((..((((((((((..(&.....)).))))..)).)).....)))))))). -18.70

mir-100 ENSRNOG00000013390 2000 nt UTR 1 hits 362

-----1-----

>ENSRNOG00000013390 hs-mir-100 362 369

AACCCGUAGAUCCGAACUUGUG&AAUCCAAACUGGUUAACGUGACUUUUUAUUUUAAAACGGGUA

.((((((((((..((((((((((..(&.....)).))))..)).)).....)))))))). -16.69

mir-100 SINFRUG00000125449 2000 nt UTR 1 hits 441

-----1-----

>SINFRUG00000125449 hs-mir-100 441 448

AACCCGUAGAUCCGAACUUGUG&CAGAAAUGGCUAUUAUUAACUCAAACUAUUAACUACGGGUA

.((((((((((.....&.....)))))))). -18.90

miRNA: mir-101

Human predicted target: ENSG00000124788

Mouse predicted target: ENSMUSG00000046876

Rat predicted target: ENSRNOG00000016998

Fugu predicted target: SINFRUG00000136920

Fugu predicted target: SINFRUG00000149524

Hs Gene description: ATAXIN-1 (SPINOCEREBELLAR ATAXIA TYPE 1 PROTEIN).
[Source:SWISSPROT;Acc:P54253]

mir-101 ENSG00000124788 9219 nt UTR 3 hits 58 1000 1174

--1-----1-----1-----

>ENSG00000124788 hs-mir-101 58 65
UACAGUACUGUGAUAAACUGA&CGUGGCUCUCCCUUAUCAUUUGUAUCCAGAUUACUGUACUGUAG
(((((((((((((.....&.....))))))))).)))))))). -21.20

>ENSG00000124788 hs-mir-101 1000 1007
UACAGUACUGUGAUAAACUGA&UUGAGUUUGCGAAAUCUUUUUGUCUUUGAACUCUAGUACUGUU
.(((((((((((((.....&.....))))))))).)))))))). -15.90

>ENSG00000124788 hs-mir-101 1174 1181
UACAGUACUGUGAUAAACUGA&UUUAUUACCAAGCAUCUUGGUCUCUCAUUAACAAGUACUGUUAU
(((((((((((((.....&.....))))))))).)))))))). -18.30

mir-101 ENSMUSG00000046876 2589 nt UTR 3 hits 59 1030 1215
--1-----1-----1-----

>ENSMUSG00000046876 hs-mir-101 59 66
UACAGUACUGUGAUAAACUGA&CGGGGCCUCCUUUUACUGUCUGUAUCCAGAUUACUGUACUGUAG
(((((((((((((.....&.....))))))))).)))))))). -21.20

>ENSMUSG00000046876 hs-mir-101 1030 1037
UACAGUACUGUGAUAAACUGA&UGUGCCGCGCAGCAUCUUUUUCUGUAUUUUAGGUCUAGUACUGUU
.(((((((((((((.....&.....))))))))).)))))))). -17.90

>ENSMUSG00000046876 hs-mir-101 1215 1222
UACAGUACUGUGAUAAACUGA&UUCUUAACCAAGCAUCUUGGUCUGUCAUUAACAAGUACUGUUAU
(((((((((((((.....&.....))))))))).)))))))). -20.90

mir-101 ENSRNOG00000016998 2534 nt UTR 3 hits 60 989 1111

--1-----1-----1-----

>ENSRNOG00000016998 hs-mir-101 60 67
UACAGUACUGUGAUAAACUGA&CGUGGGCCCCGUUUGCUGUCUGUAUCCAGAUUACUGUACUGUAG
(((((((((((((...(((&.....)))))))).)))))). -21.20

>ENSRNOG00000016998 hs-mir-101 989 996
UACAGUACUGUGAUAAACUGA&CAGCUGGCAGCAUAAUUGUCCACCUCUAGGUCUAGUACUGUU
(((((((((((((...(((&.....)))))))).)))))). -17.90

>ENSRNOG00000016998 hs-mir-101 1111 1118
UACAGUACUGUGAUAAACUGA&UUCUUAACCAAGCACCUUGUUCUGUCAUUCAACAAGUACUGUAAU
(((((((((((((...(((&.....)))))))).)))))). -19.10

mir-101 SINFRUG000000136920 2000 nt UTR 1 hits 1042

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>SINFRUG000000136920 hs-mir-101 1042 1049
UACAGUACUGUGAUAAACUGA&GUGAGUAUAGAUUUCUAAUCCUCAUGUAGUGUAUGUACUGUAAU
(((((((((((((...(((&.....)))))))).)))))). -17.40

mir-101 SINFRUG000000149524 2000 nt UTR 1 hits 923

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>SINFRUG000000149524 hs-mir-101 923 930
UACAGUACUGUGAUAAACUGA&CUGUCCACAUUUGUUUAUGUCUCUUUAUCUACGCAGUACUGUAAU
(((((((((((((...&.....)))))))).)))))). -23.20

miRNA: mir-101

Human predicted target: ENSG00000127314

Mouse predicted target: ENSMUSG00000020200

Rat predicted target: ENSRNOG00000007048

Fugu predicted target: SINFRUG00000129510

Hs Gene description: RAS-RELATED PROTEIN RAP-1 (GTP-BINDING PROTEIN SMG P21B). [Source:SWISSPROT;Acc:P09526] NM_015646

mir-101 ENSG00000127314 3273 nt UTR 2 hits 309 965

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>ENSG00000127314 hs-mir-101 309 316

UACAGUACUGUGAUAAACUGA&UUCAUCCACCAAUGUUGUACAUGUAUGAAAAUGGUGUACUGUAU

(((((((((.((((((((...&.....)))))).)).....)))))). -16.44

>ENSG00000127314 hs-mir-101 965 972

UACAGUACUGUGAUAAACUGA&GUAACGUUUUGGUUGAGAUGUUAUAAUGGUGGACGAGUACUGUGG

(((((((((.(...((...&.....))....)))))). -17.50

mir-101 ENSMUSG00000020200 3340 nt UTR 4 hits 305 961 2865 3178

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-----1-----1-----

>ENSMUSG00000020200 hs-mir-101 305 312

UACAGUACUGUGAUAAACUGA&UUCAUCCACCAAUGUUGUACAUGUAUGAAAAUGGUGUACUGUAU

(((((((((.((((((((...&.....)))))).)).....)))))). -16.44

>ENSMUSG00000020200 hs-mir-101 961 968

UACAGUACUGUGAUAAACUGA&GUAACGUUUCGGUUGAGAUGUUAACUGGUGGACGAGUACUGUGG

(((((((((.(...((...&.....))....)))))). -18.17

>ENSMUSG00000020200 hs-mir-101 2865 2872

UACAGUACUGUGAUAAACUGA&AGACUUUAUCUUGCUGUUUCCUUUCGUUCUUUAUUGUACUGUU

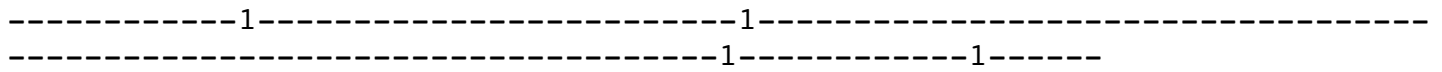
.(((((((.((((.(((.&.....))))).))))).))))). -15.50

>ENSMUSG00000020200 hs-mir-101 3178 3185

UACAGUACUGUGAUAAACUGA&UUCAUCCACCAAUGUUGUACAUGUAUGAAAUGGUGUACUGUUAU

(((((((((.((((.(...&.....))))).))))).))))). -16.44

mir-101 ENSRNOG00000007048 3254 nt UTR 4 hits 310 966 2796 3114



>ENSRNOG00000007048 hs-mir-101 310 317

UACAGUACUGUGAUAAACUGA&UUCAUCCACCAAUGUUGUACAUGUAUGAAAUGGUGUACUGUUAU

(((((((((.((((.(...&.....))))).))))).))))). -16.44

>ENSRNOG00000007048 hs-mir-101 966 973

UACAGUACUGUGAUAAACUGA&GUAACGUUUUGGUUGAGAUGUAAAUGGUGGACGAGUACUGUGG

(((((((((.((((.(...&.....))))).))))).))))). -17.50

>ENSRNOG00000007048 hs-mir-101 2796 2803

UACAGUACUGUGAUAAACUGA&AACCUUUUAUCUUGUUGUUUCCUUUCAUUCUUUAUUGUACUGUU

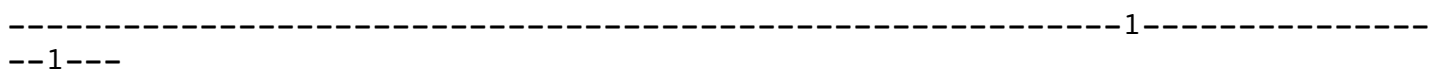
.(((((((.((((.(((.&.....))))).))))).))))). -15.80

>ENSRNOG00000007048 hs-mir-101 3114 3121

UACAGUACUGUGAUAAACUGA&UUCAUCCACCAAUGUUGUACAUGUAUGAAAUGGUGUACUGUUAU

(((((((((.((((.(...&.....))))).))))).))))). -16.44

mir-101 SINFRUG00000129510 2000 nt UTR 2 hits 1467 1905



>SINFRUG00000129510 hs-mir-101 1467 1474

UACAGUACUGUGAUAAACUGA&UGAUGGCCUGUUGCCCCAGGGUGAGGGAAGAUGUGUACUGUGC

((((((((.....((..&.....))))))))). -14.49

>SINFRUG00000129510 hs-mir-101 1905 1912

UACAGUACUGUGAUAACUGA&CUGCUGUUGAGUGUUGAGUACUGCAGUACUUAGAAGUACUGUU

((((((((.....((..&.....))))))))). -18.60

miRNA: mir-101

Human predicted target: ENSG00000170242

Mouse predicted target: ENSMUSG00000045151

Rat predicted target: ENSRNOG00000016651

Fugu predicted target: SINFRUG00000136891

Fugu predicted target: SINFRUG00000136901

Hs Gene description: NM_017944

mir-101 ENSG00000170242 2393 nt UTR 1 hits 205

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>ENSG00000170242 hs-mir-101 205 212

UACAGUACUGUGAUAACUGA&UUGACUCGGAAUCAUGUUGUGCACUAUAGUCAAAUGUACUGUAA

((((((((.....((..&.....))))))))). -20.40

mir-101 ENSMUSG00000045151 3265 nt UTR 1 hits 198

-----1-----

>ENSMUSG00000045151 hs-mir-101 198 205

UACAGUACUGUGAUAACUGA&UUGACUUGGAAUCAUGUUGUGCACUAUGGUCAGAUGUACUGUAA

((((((((.....((..&.....))))))))). -20.40

mir-101 ENSRNOG00000016651 3229 nt UTR 1 hits 199

-----1-----

>ENSRNOG00000016651 hs-mir-101 199 206

UACAGUACUGUGAUAAACUGA&UUGACUUGGAAUCAUGUUGUGCACUAUAGUCAGAUGUACUGUAA

(((((((((.(((((((((((&.....))))).))))).)).....)))))))). -20.40

mir-101 SINFRUG000000136891 2000 nt UTR 1 hits 480

-----1-----

>SINFRUG000000136891 hs-mir-101 480 487

UACAGUACUGUGAUAAACUGA&CAGCUCAGAAACUCUGUUGUGCACUAUAGUGUAUUGUACUGUAA

(((((((((.(((((((((.((&.....))))).))))).)).....)))))))). -19.40

mir-101 SINFRUG000000136901 2000 nt UTR 1 hits 188

-----1-----

>SINFRUG000000136901 hs-mir-101 188 195

UACAGUACUGUGAUAAACUGA&CAGCUCAGAAACUCUGUUGUGCACUAUAGUGUAUUGUACUGUAA

(((((((((.(((((((((.((&.....))))).))))).)).....)))))))). -19.40

miRNA: mir-103

Human predicted target: ENSG00000141433

Mouse predicted target: ENSMUSG00000024256

Rat predicted target: ENSRNOG00000014921

Fugu predicted target: SINFRUG000000134427

Hs Gene description: PITUITARY ADENYLATE CYCLASE ACTIVATING POLYPEPTIDE PRECURSOR (PACAP) [CONTAINS: PACAP-RELATED PEPTIDE (PRP-48); PITUITARY ADENYLATE CYCLASE ACTIVATING POLYPEPTIDE-27 (PACAP-27) (PACAP27); PITUITARY ADENYLATE CYCLASE ACTIVATING POLYPEPTIDE-38 (PACAP-38) (PACAP38)]. [Source:SWISSPROT;Acc:P18509] NM_001117

mir-103 ENSG00000141433 3418 nt UTR 2 hits 1921 2120

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>ENSG00000141433 hs-mir-103 1921 1928

AGCAGCAUUGUACAGGGCUAUGA&AAACAGAAUUGGAUUUGCAUUCCCAGGCGGGAUGGAUGCUGCC

.((((((((((...(((...&.....)))))).)).....)))))))). -21.20

>ENSG00000141433 hs-mir-103 2120 2127

AGCAGCAUUGUACAGGGCUAUGA&CCACGAAUCACAGAUGGCUAUUUAGUGGCCCUACAAUGCUGCA

.((((((((((...(((...&.....)))))))).)).....)))))))). -34.30

mir-103 ENSMUSG00000024256 2000 nt UTR 2 hits 1400 1821

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>ENSMUSG00000024256 hs-mir-103 1400 1407

AGCAGCAUUGUACAGGGCUAUGA&CCAAUCUUUGUCAUAUUAGAAUGUGUAGUGUCCAAUGCUGCUC

((((((((((...(((...&.....)))))).)).....)))))))). -
24.20

>ENSMUSG00000024256 hs-mir-103 1821 1828

AGCAGCAUUGUACAGGGCUAUGA&AACACUGUAUUUGCAUUCCCAGGUGGGUGGAUGGAUGCUGCC

.((((((((((...(((...&.....)))))).)).....)))))))). -20.40

mir-103 ENSRNOG00000014921 2000 nt UTR 2 hits 1437 1880

-----1-----
-1----

>ENSRNOG00000014921 hs-mir-103 1437 1444

AGCAGCAUUGUACAGGGCUAUGA&CCAAUCUUUGUCAUAUUAGAAUGUGUAGUGUUCCAAUGCUGCUC

((((((((((((...((...&.....)))))))).)))). -
24.20

>ENSRNOG00000014921 hs-mir-103 1880 1887

AGCAGCAUUGUACAGGGCUAUGA&AAAAACUGUAUUUGCAUUC CAGGCGGGUGGAUGGAUGCUGCC

.((((((((((((...((...&.....)))))))).)))). -20.80

mir-103 SINFRUG00000134427 2000 nt UTR 2 hits 423 1197

-----1-----1-----

>SINFRUG00000134427 hs-mir-103 423 430

AGCAGCAUUGUACAGGGCUAUGA&GAAAUAAAUAGUUUAAAAGACAAUCA AUGUGCUGAAUGCUGCUU

((((((((((((((...&.....)))))))).)))). -
23.61

>SINFRUG00000134427 hs-mir-103 1197 1204

AGCAGCAUUGUACAGGGCUAUGA&GAAAUAAAUAGUUUAAAAGACAAUCA AUGUGCUGAAUGCUGCUU

((((((((((((((...&.....)))))))).)))). -
23.61

miRNA: mir-122a

Human predicted target: ENSG00000139514

Mouse predicted target: ENSMUSG00000041313

Rat predicted target: ENSRNOG00000000924

Fugu predicted target: SINFRUG00000142273

Hs Gene description: HIGH-AFFINITY CATIONIC AMINO ACID TRANSPORTER-1 (CAT-1) (CAT1) (SYSTEM Y+ BASIC AMINO ACID TRANSPORTER) (ECOTROPIC RETROVIRAL LEUKEMIA RECEPTOR HOMOLOG) (ERR) (ECOTROPIC RETROVIRUS RECEPTOR HOMOLOG). [Source:SWISSPROT;Acc:P30825] NM_003045

mir-122a ENSG00000139514 3866 nt UTR 2 hits 1091 1364

-----1-----1-----

>ENSG00000139514 hs-mir-122a 1091 1098

UGGAGUGUGACAAUGGUGUUUGU&GAAAUUGAAAUCAAUCCACAGUCCAUGAAAUUGUGACACUCCAC

((((((((.....)))))))). -
25.80

>ENSG00000139514 hs-mir-122a 1364 1371

UGGAGUGUGACAAUGGUGUUUGU&CUGGGUCGGGGCCUGCGGCCAGCACCAUUUCACACACACUCCU

.(((.....)))). -29.30

mir-122a ENSMUSG00000041313 2358 nt UTR 1 hits 331

-----1-----

>ENSMUSG00000041313 hs-mir-122a 331 338

UGGAGUGUGACAAUGGUGUUUGU&CCCUCCCUGGGACCACCCUGGCAUCGCCCAUGUGCACACUCCAG

(((((.....))))). -
28.70

mir-122a ENSRNOG00000000924 2309 nt UTR 1 hits 325

-----1-----

>ENSRNOG00000000924 hs-mir-122a 325 332

UGGAGUGUGACAAUGGUGUUUGU&CCUCCCUGGGACCACCCUGCGUACACUCAUACGUACACUCCAG

(((((.....))))). -
26.50

mir-122a SINFRUG00000142273 2000 nt UTR 1 hits 935

-----1-----

>SINFRUG00000142273 hs-mir-122a 935 942
UGGAGUGUGACAAUGGUGUUUGU&CAUGGACACACUGACGGGAAAUGAGCACACACACCACACUCCC
.((((((((.....((((((..(&.....)))))).....)))))))). -25.30

miRNA: mir-124a

Human predicted target: ENSG00000070882

Mouse predicted target: ENSMUSG00000029822

Rat predicted target: ENSRNOG00000010011

Fugu predicted target: SINFRUG00000137005

Hs Gene description: OXYSTEROL BINDING PROTEIN-RELATED PROTEIN 3 (OSBP-RELATED PROTEIN 3) (ORP-3). [Source:SWISSPROT;Acc:Q9H4L5] NM_145321

mir-124a ENSG00000070882 5643 nt UTR 3 hits 336 656 1053

-----1-----1-----1-----

>ENSG00000070882 hs-mir-124a 336 343
UUAAGGCACGCGGUGAAUGCCA&UUUCCAAAGGUUAGGGAAGAUUCCAAUAAAUUUAUGCCUUAU
.((((((((.....&.....)))))))). -13.70

>ENSG00000070882 hs-mir-124a 656 663
UUAAGGCACGCGGUGAAUGCCA&GAAGCAUUUGAACUUGUUCUCCCUAUAGUUCUAUUGCCUUAU
.((((((((.....&.....)))))).....)))))). -16.21

>ENSG00000070882 hs-mir-124a 1053 1060
UUAAGGCACGCGGUGAAUGCCA&ACCAUAAUUUAGAUCUUGUAUAAAAGUUGCCAUCUGCCUUAU
.((((((((.....((..(&.....)))))).....)))))). -18.40

mir-124a ENSMUSG00000029822 2258 nt UTR 2 hits 336 1027

-----1-----1-----

>ENSMUSG00000029822 hs-mir-124a 336 343

UUAAGGCACGCGGUGAAUGCCA&AAUUUCCAGAGGUAAGGGGAAAUUUCAAAUUUAUGCCUUAU

.(((((((.....((((((..(&.....)))))).....)))))). -18.50

>ENSMUSG00000029822 hs-mir-124a 1027 1034

UUAAGGCACGCGGUGAAUGCCA&CGCCUUUUGACCUUGUAUAGCCAGUUUGACCAUCUGCCUUAU

.(((((((...(((..(&.....)))))).....)))))). -18.60

mir-124a ENSRNOG00000010011 2000 nt UTR 3 hits 342 641 1040

-----1-----1-----1-----

>ENSRNOG00000010011 hs-mir-124a 342 349

UUAAGGCACGCGGUGAAUGCCA&AAUUUCCAAAGGUAAGGGGAAAUAUCAGAUUUUAUGCCUUAU

.(((((((.....((((((..(&.....)))))).....)))))). -19.20

>ENSRNOG00000010011 hs-mir-124a 641 648

UUAAGGCACGCGGUGAAUGCCA&CAACCGGAAGAAGUCUUCUCUCCUCGAGUUCUGUUGCCUUAU

.(((((((..(((.....&.....)))))).....)))))). -16.90

>ENSRNOG00000010011 hs-mir-124a 1040 1047

UUAAGGCACGCGGUGAAUGCCA&CGUACUUUUGACCUUGUAUAGAGAGUUUGACCAUCUGCCUUAU

.(((((((...(((..(&.....)))))).....)))))). -17.80

mir-124a SINFRUG00000137005 2000 nt UTR 2 hits 118 379

----1-----1-----

>SINFRUG00000137005 hs-mir-124a 118 125

UUAAGGCACGCGGUGAAUGCCA&AAUGGACAUACUUCAAUCCUGUUUAUUGCACUUUUGCCUUAAC
(((((((((((((.....&.....)))))))))).....))))). -21.00

>SINFRUG00000137005 hs-mir-124a 379 386

UUAAGGCACGCGGUGAAUGCCA&CUGUUUAAGUUCAUAUGUAUUCAGCACUUGCCCGAUGCCUUAAC
(((((((((((((.....&.....))))))..)))).))))). -25.60

miRNA: mir-124a

Human predicted target: ENSG00000110422

Mouse predicted target: ENSMUSG00000027177

Rat predicted target: ENSRNOG00000011358

Fugu predicted target: SINFRUG00000121575

Fugu predicted target: SINFRUG00000133436

Hs Gene description: HOMEODOMAIN INTERACTING PROTEIN KINASE 3;
HOMEODOMAIN-INTERACTING PROTEIN KINASE 3. [Source:RefSeq;Acc:NM_005734]
NM_005734

mir-124a ENSG00000110422 2737 nt UTR 1 hits 550

-----1-----

>ENSG00000110422 hs-mir-124a 550 557

UUAAGGCACGCGGUGAAUGCCA&AUCUCAGCUGCAUUGUAAACCGUCCUACACAUAGUGCCUAAAA
(((((((((((((((.....&.....)))))))).....))))). -26.10

mir-124a ENSMUSG00000027177 2090 nt UTR 1 hits 564

-----1-----

>ENSMUSG00000027177 hs-mir-124a 564 571

UUAAGGCACGCGGUGAAUGCCA&ACUCUCAGCUGCAUUGUAACCGUUCCCACACAUAGUGCCUAAAA
((((((((((((((((((..&.....))))))....))))). -26.70

mir-124a ENSRNOG00000011358 2072 nt UTR 1 hits 566

-----1-----

>ENSRNOG00000011358 hs-mir-124a 566 573

UUAAGGCACGCGGUGAAUGCCA&AUCUCAGCUGCAUUGUAAACCGUUCCCACACAUAGUGCCUAAAA
((((((((((((((((((..&.....))))))....))))). -26.10

mir-124a SINFRUG000000121575 2000 nt UTR 1 hits 698

-----1-----

>SINFRUG000000121575 hs-mir-124a 698 705

UUAAGGCACGCGGUGAAUGCCA&ACUCGCUGCAUUGUCUAACCUGUCCCCAACCAUAGUGCCUAC
.((((((((((((((((((.....&..))))))....))))). -23.21

mir-124a SINFRUG000000133436 2000 nt UTR 1 hits 564

-----1-----

>SINFRUG000000133436 hs-mir-124a 564 571

UUAAGGCACGCGGUGAAUGCCA&UUUGGGAGGCAGAACUCGUUACUGCUCCUCCUCAGUGCCUAC
.((((((((((((((((((..&.....))))))....))))). -28.30

miRNA: mir-124a
Human predicted target: ENSG00000163403
Mouse predicted target: ENSMUSG00000035158
Rat predicted target: ENSRNOG00000008651

Rat predicted target: ENSRNOG00000008658

Fugu predicted target: SINFRUG00000141734

Hs Gene description: MICROPHTHALMIA-ASSOCIATED TRANSCRIPTION FACTOR.
[Source:SWISSPROT;Acc:O75030]

mir-124a ENSG00000163403 2000 nt UTR 2 hits 485 1585

-----1-----1-----

>ENSG00000163403 hs-mir-124a 485 492

UUAAGGCACGCGGUGAAUGCCA&UUUCCAUUUUAUAAAUGUAUUGAUUCAUUGGUACUGCCUAAA

(((((.....&.....))))). -21.00

>ENSG00000163403 hs-mir-124a 1585 1592

UUAAGGCACGCGGUGAAUGCCA&GCAAGUGGCAUAAAGCAUAUCCAUCAGAAUGAAGUGCCUAAA

(((((.....&.....))))). -24.11

mir-124a ENSMUSG00000035158 2527 nt UTR 2 hits 548 1640

-----1-----1-----

>ENSMUSG00000035158 hs-mir-124a 548 555

UUAAGGCACGCGGUGAAUGCCA&UUUCUCGCUUUCUAAAUGCGGCAAUUCCUGGUACUGCCUAAA

(((((.....&.....))))). -24.00

>ENSMUSG00000035158 hs-mir-124a 1640 1647

UUAAGGCACGCGGUGAAUGCCA&CUGUGUGGCAUAAAGCAUACCCUUCAGAAUGAAGUGCCUAAA

(((((.....&.....))))). -24.11

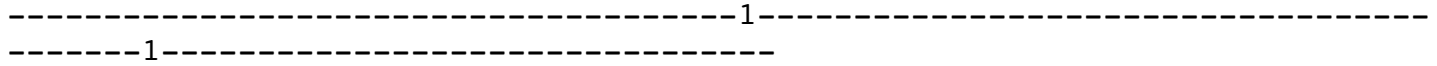
mir-124a ENSRNOG00000008651 2000 nt UTR 1 hits 469

-----1-----

>ENSRNOG00000008651 hs-mir-124a 469 476

UUAAGGCACGCGGUGAAUGCCA&UUCAGAAAGAGAACUGUGGUCAAGCAUUCUGUCUGUGCCUAAU
((((((((((.....((((((..&.....)))))).....)))))))). -26.30

mir-124a ENSRNOG00000008658 2835 nt UTR 2 hits 958 2046



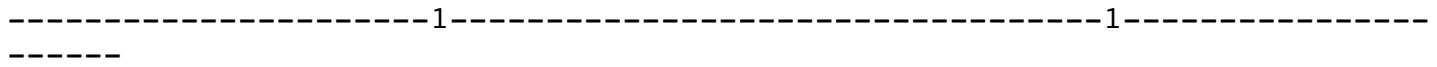
>ENSRNOG00000008658 hs-mir-124a 958 965

UUAAGGCACGCGGUGAAUGCCA&UUUCUCACUUUAUAAAUGUGUCGAUUCCCUGGUACUGCCUAAA
((((((((((..(((..(((((((&.....))))..))))..))))..))))..)))))). -18.10

>ENSRNOG00000008658 hs-mir-124a 2046 2053

UUAAGGCACGCGGUGAAUGCCA&GCGAGCGGCAUAAAACUUAUCCUUUCAGAAUGAAGUGCCUAAA
((((((((((..(((..(((((((&.....))))..))))..))))..))))..)))))). -24.31

mir-124a SINFRUG00000141734 2000 nt UTR 2 hits 555 1447



>SINFRUG00000141734 hs-mir-124a 555 562

UUAAGGCACGCGGUGAAUGCCA&CUCCUCGUGUCUUAGAUGAAACUUGAACGUGUUGAUGCCUAAU
((((((((((.....&.....))))..))))..))))..))))..)))))). -17.40

>SINFRUG00000141734 hs-mir-124a 1447 1454

UUAAGGCACGCGGUGAAUGCCA&GACGCGACCUCCUUAUGCAUUAAGUCCAUAUUAGUGCCUAAU
((((((((((..(((..(((((((&.....))))..))))..))))..))))..)))))). -21.50

miRNA: mir-125b
Human predicted target: ENSG00000068724
Mouse predicted target: ENSMUSG00000036918

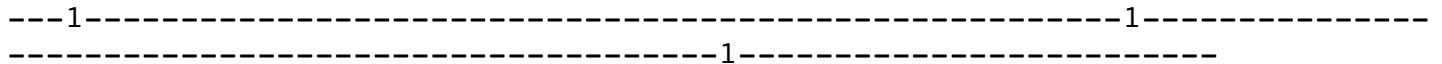
Rat predicted target: ENSRNOG00000014879

Fugu predicted target: SINFRUG00000131832

Fugu predicted target: SINFRUG00000141548

Hs Gene description: TETRATRICOPEPTIDE REPEAT PROTEIN 7 (TPR REPEAT PROTEIN 7) (FRAGMENT). [Source:SWISSPROT;Acc:Q9ULT0]

mir-125b ENSG00000068724 3407 nt UTR 3 hits 97 1469 2785



>ENSG00000068724 hs-mir-125b 97 104

UCCUGAGACCCUAACUUGUGA&UCAGGGUGGGGCAACAGUGGCAUCAGGUGCGGGGCCUCAGGGAA

(((((((((((((.((((.(((((((.(.&.....)))))))).)))))).)))))). -33.00

>ENSG00000068724 hs-mir-125b 1469 1476

UCCUGAGACCCUAACUUGUGA&GAAAAGUAAAGAAAAAGCAAUGCUGUUGGUUUUAUCUCAGGGU

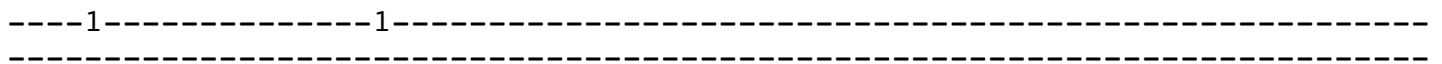
.(((((((((((((.((((.(((((((.(.&.....)))))))).)))))).)))))). -22.60

>ENSG00000068724 hs-mir-125b 2785 2792

UCCUGAGACCCUAACUUGUGA&CGAAUGUUGGAGAGUCACGCAGCGGUGGAGACCUGCUCAGGGC

.(((((((((((((.((((.(((((((.(.&.....)))))))).)))))).)))))). -21.30

mir-125b ENSMUSG00000036918 3693 nt UTR 2 hits 106 488



>ENSMUSG00000036918 hs-mir-125b 106 113

UCCUGAGACCCUAACUUGUGA&GGGGGCAGGGAAGGGCGUGUGUCCAGAUGUGGGGCCUCAGGGAA

(((((((((((((.((((.(((((((.(.&.....)))))))).)))))).)))))). -30.40

>ENSMUSG00000036918 hs-mir-125b 488 495

UCCUGAGACCCUAACUUGUGA&UGCCGGAGAGCCCCGGAUACAUAUCCCAUCCGAUCUCAGGGC

.((((((((.....&.....)))))))). -18.50

mir-125b ENSRNOG00000014879 2000 nt UTR 1 hits 73

--1-----

>ENSRNOG00000014879 hs-mir-125b 73 80

UCCUGAGACCCUAACUUGUGA&GGGGCAGGGAAGGGCACCAUCCGGAUGUGGGGCCUCAGGGAA

(((((((((.....&.....)))))))). -30.25

mir-125b SINFRUG00000131832 2000 nt UTR 1 hits 500

-----1-----

>SINFRUG00000131832 hs-mir-125b 500 507

UCCUGAGACCCUAACUUGUGA&GCCGUGGGAGGAGAAAACACGGCUGGAUCGCGGUCCUCAGGGAC

((((((((((.....&.....)))))))). -25.40

mir-125b SINFRUG00000141548 2000 nt UTR 1 hits 1907

-----1-----

>SINFRUG00000141548 hs-mir-125b 1907 1914

UCCUGAGACCCUAACUUGUGA&UGUCUGAACGGGAGGAGAGUAUGUCCUGUUUCCUCAGGGC

.((((((((.....&.....)))))))). -19.81

miRNA: mir-128

Human predicted target: ENSG00000055070

Mouse predicted target: ENSMUSG00000040842

Rat predicted target: ENSRNOG00000009183

Fugu predicted target: SINFRUG00000123544

Fugu predicted target: SINFRUG00000124328

Hs Gene description: NM_015609

mir-128 ENSG00000055070 5002 nt UTR 4 hits 121 145 167 197

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>ENSG00000055070 hs-mir-128 121 128

UCACAGUGAACCGGUCUCUUUU&UGGACUUGAGCAGAGGGAACGACCUGACUACUUGCACUGUGAU

((((((((.....(((((((((&.....))))))..)))).....))))). -21.76

>ENSG00000055070 hs-mir-128 145 152

UCACAGUGAACCGGUCUCUUUU&UGACUACUUGCACUGUGAUCCCCCUUGCUCGCCACUGUGAC

((((((((.....((.....&.....))))..))))). -19.30

>ENSG00000055070 hs-mir-128 167 174

UCACAGUGAACCGGUCUCUUUU&CCCUUGCUCGCCACUGUGACCUUGAACCCCAUGCACUGUGAC

((((((((.....((.....&.....))))..))))). -20.20

>ENSG00000055070 hs-mir-128 197 204

UCACAGUGAACCGGUCUCUUUU&CCAUGCACUGUGACCUCCCCCUUCUCCCCCUUCCACUGUGAU

((((((((.....(((.....&.....)))).....))))). -18.25

mir-128 ENSMUSG00000040842 2000 nt UTR 4 hits 118 142 164 192

----1111-----

>ENSMUSG00000040842 hs-mir-128 118 125

UCACAGUGAACCGGUCUCUUUU&UGGACUUGAGCAGAGGGAUAACCUGACUACUUGCACUGUGAU

((((((((.....(((((((((&.....)))))).....))))). -20.51

>ENSMUSG00000040842 hs-mir-128 142 149

UCACAGUGAACCGGUCUCUUUU&UGACUUACUUGCACUGUGAUCCCCCUUGCUCGCCCCACUGUGAC
((((((((...(((.....&.....)))))))). -19.30

>ENSMUSG00000040842 hs-mir-128 164 171

UCACAGUGAACCGGUCUCUUUU&CCCUUGCUCGCCCCACUGUGACCUUGAACCCCAUGCACUGUGAC
((((((((...(((.....&.....)))))))). -20.20

>ENSMUSG00000040842 hs-mir-128 192 199

UCACAGUGAACCGGUCUCUUUU&CCCAUGCACUGUGACCUCUGCCUCCCCCCCUCACUGUGAU
((((((((...(((.....&.....)))))))). -18.35

mir-128 ENSRNOG0000009183 2530 nt UTR 8 hits 116 140 162 190 640
664 686 714

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>ENSRNOG0000009183 hs-mir-128 116 123

UCACAGUGAACCGGUCUCUUUU&UGGACUUGAGCAGAGGGAAUAACCUGACUUACUUGCACUGUGAU
((((((((...(((.....&.....)))))))). -20.51

>ENSRNOG0000009183 hs-mir-128 140 147

UCACAGUGAACCGGUCUCUUUU&UGACUUACUUGCACUGUGAUCCCCCUUGCUCGCCCCACUGUGAC
((((((((...(((.....&.....)))))))). -19.30

>ENSRNOG0000009183 hs-mir-128 162 169

UCACAGUGAACCGGUCUCUUUU&CCCUUGCUCGCCCCACUGUGACCUUGAACCCCAUGCACUGUGAC
((((((((...(((.....&.....)))))))). -20.20

>ENSRNOG0000009183 hs-mir-128 190 197

UCACAGUGAACCGGUCUCUUUU&CCCAUGCACUGUGACCUCUGCCUCCCCCCCUCACUGUGAU
((((((((...(((.....&.....)))))))). -18.35

>ENSRNOG0000009183 hs-mir-128 640 647

UCACAGUGAACCGGUCUCUUUU&UGGACUUGAGCAGAGGGAAUAACCUGACUUACUUGCACUGUGAU
((((((((.....(((((((((&.....)))))).....)))))).....)))))))). -20.51

>ENSRNOG00000009183 hs-mir-128 664 671

UCACAGUGAACCGGUCUCUUUU&UGACUUACUUGCACUGUGAUCCCCCUUGCUCGCCCCACUGUGAC
((((((((.....((.....&.....)))).....)))))).....)))))))). -19.30

>ENSRNOG00000009183 hs-mir-128 686 693

UCACAGUGAACCGGUCUCUUUU&CCCUUGCUCGCCCCACUGUGACCUUGAACCCCAUGCACUGUGAC
((((((((.....((.....&.....)))).....)))))).....)))))))). -20.20

>ENSRNOG00000009183 hs-mir-128 714 721

UCACAGUGAACCGGUCUCUUUU&CCCAUGCACUGUGACCUCUGCCUCCCCCUUCCACUGUGAU
((((((((.....(((.....&.....)))).....)))))).....)))))))). -18.35

mir-128 SINFRUG00000123544 2000 nt UTR 2 hits 878 906

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>SINFRUG00000123544 hs-mir-128 878 885

UCACAGUGAACCGGUCUCUUUU&CGCGCUCUUCUCUUAUACCACCCCGAGUCGGUUGACACUGUGAU
((((((((((((((.....&.....)))))).....)))))).....)))))))). -27.00

>SINFRUG00000123544 hs-mir-128 906 913

UCACAGUGAACCGGUCUCUUUU&CGGUUGACACUGUGAUCGUGGACGUCUUCUGCUCUCACUGUGAC
((((((((((.....&.....)))).....)))))).....)))))))). -20.76

mir-128 SINFRUG00000124328 2000 nt UTR 1 hits 313

-----1-----

>SINFRUG00000124328 hs-mir-128 313 320

UCACAGUGAACCGGUCUCUUUU&CCGCUGCGAACGGGCCUUCAGCUCACAUCCUCUACACUGUGAU

((((((((.....((((((.....&.....)))))).....)))))))). -18.70

miRNA: mir-128

Human predicted target: ENSG00000070444

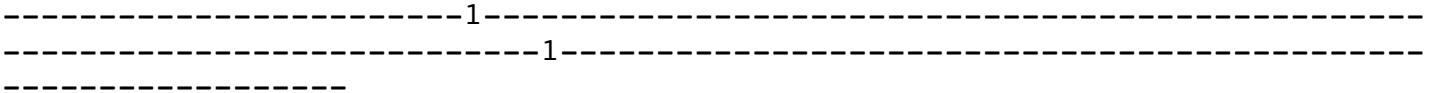
Mouse predicted target: ENSMUSG00000000282

Rat predicted target: ENSRNOG00000002894

Fugu predicted target: SINFRUG00000136074

Hs Gene description: MAX BINDING PROTEIN MNT (ROX PROTEIN) (MYC ANTAGONIST MNT). [Source:SWISSPROT;Acc:Q99583] NM_020310

mir-128 ENSG00000070444 4136 nt UTR 2 hits 614 2563



>ENSG00000070444 hs-mir-128 614 621

UCACAGUGAACCGGUCUCUUUU&GGCCUCAGCCUGGGGCUCUCUGACCCGGUUGCAGUCACUGUGAU

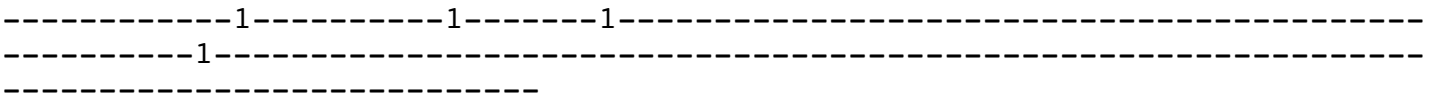
((((((((((((((((.....&.....)))))).....)))))))). -25.90

>ENSG00000070444 hs-mir-128 2563 2570

UCACAGUGAACCGGUCUCUUUU&CCAGAGGUGGCCCUUGUUUACAGUGAGGACUCGGCCACUGUGU

.((((((((.....((((((.....&.....)))))).....)))))))). -23.70

mir-128 ENSMUSG00000000282 4381 nt UTR 4 hits 321 589 780 2119



>ENSMUSG00000000282 hs-mir-128 321 328

UCACAGUGAACCGGUCUCUUUU&CGCUCCAUCUCCUGUUUUGUCCCGGAAGUCUGCACUGUGGC

((((((((.....((((((.....&.....)))))).....)))))))). -18.00

>ENSMUSG00000000282 hs-mir-128 589 596
UCACAGUGAACCGGUCUCUUUU&GGCCUGGGCCUGGGCCACUCUGACCCACCUGUGGUCACUGUGAU
((((((((((..(((((((.....&.....))))))..)).....)))))))). -23.95

>ENSMUSG00000000282 hs-mir-128 780 787
UCACAGUGAACCGGUCUCUUUU&GGUGUGGACCAGCAAGGGCUCUAGGAGCUAAGGUACACUGUGGA
((((((((((..(((((((.....&.....))))))..)).....)))))))). -24.40

>ENSMUSG00000000282 hs-mir-128 2119 2126
UCACAGUGAACCGGUCUCUUUU&AAAGAGGUGGCCCUUGUUUACAGUGAGGACUUGGUCACUGUGU
..((((((((((..(((((((.....&.....))))))..)).....)))))))). -24.60

mir-128 ENSRNOG00000002894 4278 nt UTR 2 hits 330 2015

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-----1-----

>ENSRNOG00000002894 hs-mir-128 330 337
UCACAGUGAACCGGUCUCUUUU&ACCUCCCUGCUUUGUCCCCCCCCCAGGAAGUCUGCACUGUGGC
((((((((((..(((((((.....&.....))))))..)).....)))))))). -18.70

>ENSRNOG00000002894 hs-mir-128 2015 2022
UCACAGUGAACCGGUCUCUUUU&AAAGAGGUGGCCCUUGUUUACAGUGAGGACUUGGUCACUGUGU
..((((((((((..(((((((.....&.....))))))..)).....)))))))). -24.60

mir-128 SINFRUG00000136074 2000 nt UTR 1 hits 1106

-----1-----

>SINFRUG00000136074 hs-mir-128 1106 1113
UCACAGUGAACCGGUCUCUUUU&AUGUGUUUUUUCAGUACUAAUUUAGGCCAGGCAGCACUGUGAA
((((((((((..(((((((.....&.....))))))..)).....)))))))). -25.40

miRNA: mir-131

Human predicted target: ENSG00000015153

Mouse predicted target: ENSMUSG00000022634

Rat predicted target: ENSRNOG00000004773

Rat predicted target: ENSRNOG00000005254

Fugu predicted target: SINFRUG00000122248

Fugu predicted target: SINFRUG00000152392

Hs Gene description: YY1 ASSOCIATED FACTOR 2.
[Source:RefSeq;Acc:NM_005748] NM_005748

mir-131 ENSG00000015153 3555 nt UTR 1 hits 703

-----1-----

>ENSG00000015153 hs-mir-131 703 710

UAAAGCUAGAUAAACCGAAAGU&CUAGCGGACUAGUAAACAAUAAAACAUUGAUUAUUUAGCUUUUAU

(((((((((((((((((((.....&.....))))))))).....)). -19.50

mir-131 ENSMUSG00000022634 3109 nt UTR 1 hits 691

-----1-----

>ENSMUSG00000022634 hs-mir-131 691 698

UAAAGCUAGAUAAACCGAAAGU&ACUGUUCACUAGUAGACAGUACGACGUGGCUUGUUUAGCUUUC

.(((((((((((((((((((((.....&.....))))))))).....)). -19.70

mir-131 ENSRNOG00000004773 2000 nt UTR 1 hits 697

-----1-----

>ENSRNOG00000004773 hs-mir-131 697 704
UAAAGCUAGAUAAACCGAAAGU&CUAGCUGAAUAGUAAACAAUAAAACACGGACUGUGUAGCUUUC
.(((((((((((((.((((.....&.....))))).))))).))))). -17.60

mir-131 ENSRNOG00000005254 3403 nt UTR 2 hits 652 1683
-----1-----1-----

>ENSRNOG00000005254 hs-mir-131 652 659
UAAAGCUAGAUAAACCGAAAGU&UUUCAAGCCUCGGUUUGUUGUACUGUUUACUAGGUAGCUUUC
.(((((((((((((((((((.....&.....)))))).....))))). -15.66

>ENSRNOG00000005254 hs-mir-131 1683 1690
UAAAGCUAGAUAAACCGAAAGU&CUAGCUGAAUAGUAAACAAUAAAACACGGACUGUGUAGCUUUC
.(((((((((((((.((((.....&.....))))).))))).))))). -17.60

mir-131 SINFRUG00000122248 2000 nt UTR 1 hits 1409
-----1-----

>SINFRUG00000122248 hs-mir-131 1409 1416
UAAAGCUAGAUAAACCGAAAGU&UGAUUACCAUAUGUGAUGUUACCCCGCUGCUUCAUAGCUUUU
.((((((((((.....&.....)))))))). -11.70

mir-131 SINFRUG00000152392 2000 nt UTR 1 hits 1911

--1---

>SINFRUG00000152392 hs-mir-131 1911 1918
UAAAGCUAGAUAAACCGAAAGU&GACGUCGGGAGAAUAGCUGCUCAGAAACUUGCGGCUAGCUUUU
.((((((((((.....(((.(((((&.....))))).))))).))))). -18.60

>SINFRUG00000139197 hs-mir-131 88 95
UAAAGCUAGAUAAACCGAAAGU&GCAGUGUGAAUAAUCAGUUUCAGCGGCGCAGGAAGUAGCUUUAC
((((((((.....((.....(&.....)))))))). -13.20

>SINFRUG00000139197 hs-mir-131 1521 1528
UAAAGCUAGAUAAACCGAAAGU&UGCAUGGUCUUGUAUAAUUAUUUCACCAACAUCUGGUAGCUUUU
((((((((.....((.....&.....)))))))). -11.10

miRNA: mir-135b

Human predicted target: ENSG00000053254

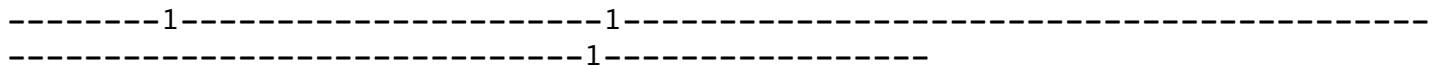
Mouse predicted target: ENSMUSG00000033713

Rat predicted target: ENSRNOG00000004709

Fugu predicted target: SINFRUG00000137365

Hs Gene description: CHECKPOINT SUPPRESSOR 1 (FORKHEAD BOX PROTEIN N3).
[Source:SWISSPROT;Acc:000409] NM_005197

mir-135b ENSG00000053254 3029 nt UTR 3 hits 211 780 2620



>ENSG00000053254 hs-mir-135b 211 218
UAUGGCUUUUUAUCCUAUGUGAU&UGGACCCUUAAGAAUUUUUAUUUUUAAAGGAGAUUGAAGCCAUAG
((((((((.....((.....&.....)))))))). -
22.00

>ENSG00000053254 hs-mir-135b 780 787
UAUGGCUUUUUAUCCUAUGUGAU&AUUCUGUUCUCUAUUAAAUAAGAAAUGUCCAAAAGCCAUA
((((((((.....&.....)))))))). -
16.20

>ENSG00000053254 hs-mir-135b 2620 2627

UAUGGCUUUUUUAUCCUAUGUGAU&GUUCCUCGUCUCCCCAGACAUCUGACACCCUAAAAGCCAUC

.((((((((((...((...&.....))))))...)))). -
16.50

mir-135b ENSMUSG00000033713 2310 nt UTR 2 hits 236 798

-----1-----1-----

>ENSMUSG00000033713 hs-mir-135b 236 243

UAUGGCUUUUUUAUCCUAUGUGAU&GGACCCUAAAAUUUUUCUGUUUAAAGGAGAUUGAAGCCAUAG

((((((((((...(((...&.....))))))...)))). -
22.00

>ENSMUSG00000033713 hs-mir-135b 798 805

UAUGGCUUUUUUAUCCUAUGUGAU&GAGUUCUGCUCUAUGUUAAAUUAAGAAGACUCCAAAGCCAUA

((((((((((...(((...&.....))))))...)))). -
15.60

mir-135b ENSRNOG00000004709 3495 nt UTR 3 hits 217 720 1863

-----1-----1-----
1-----

>ENSRNOG00000004709 hs-mir-135b 217 224

UAUGGCUUUUUUAUCCUAUGUGAU&UGGACCCUUAAGAAUUUUUCUGUUUAAAGGAGAUUGAAGCCAUAG

((((((((((...(((...&.....))))))...)))). -
22.00

>ENSRNOG00000004709 hs-mir-135b 720 727

UAUGGCUUUUUUAUCCUAUGUGAU&GUUCUGCUCUAUGUUAAAUCAAGAAGACGUUCCAAAAGCCAUA

((((((((((...(((...&.....))))))...)))). -
17.70

>ENSRNOG00000004709 hs-mir-135b 1863 1870

((((((((((((.....((.....&.....)))))))). -
18.34

>ENSG00000145925 hs-mir-135b 1927 1934

UAUGGCUUUUUAUCCUAUGUGAU&AGACAUGUGUCUUCUCUGUCCGUUUCCAAUAGGUAAAGCCAUAU

((((((((((((.....((.....&.....)))))))). -
20.40

mir-135b ENSMUSG00000025867 2000 nt UTR 2 hits 1756 1941

-----1-----
---1--

>ENSMUSG00000025867 hs-mir-135b 1756 1763

UAUGGCUUUUUAUCCUAUGUGAU&AAUGCUACUGGGACAGACCCAGGCAGUACCCUAGGAAGCCAUGC

((((((((((((.....((.....&.....)))))))). -
20.71

>ENSMUSG00000025867 hs-mir-135b 1941 1948

UAUGGCUUUUUAUCCUAUGUGAU&AGACAGACGUCUUCUCCUGUCCGUUUCCAAUAGUUAAAGCCAUAU

((((((((((((.....((.....&.....)))))))). -
17.70

mir-135b ENSMUSG00000033615 3569 nt UTR 2 hits 110 1246

-----1-----1-----

>ENSMUSG00000033615 hs-mir-135b 110 117

UAUGGCUUUUUAUCCUAUGUGAU&GGGAGCAGAUGCAGCCCCCUACCCCGCAAAAUAAGCCAUAG

((((((((((((.....((.....&.....)))))))). -
16.36

>ENSMUSG00000033615 hs-mir-135b 1246 1253

UAUGGCUUUUUAUCCUAUGUGAU&CAUUGACCUUCAUGACCUUACAUAGCUCUUUAGAGAAGCCAUAU

((((((((((((.....((.....&.....)))))))). -
24.20

mir-135b ENSRNOG00000000105 2000 nt UTR 2 hits 1689 1875

-----1-----
1-----

>ENSRNOG00000000105 hs-mir-135b 1689 1696

UAUGGCUUUUUAUCCUAUGUGAU&AAUGCUACUGGGACAGACCCAGGCAGUGCCCCAGGAAGCCAUGC

((((((((((((..((((((..&.....)))))))).)))))).....)))))))). -
19.30

>ENSRNOG00000000105 hs-mir-135b 1875 1882

UAUGGCUUUUUAUCCUAUGUGAU&AGACAGACGUCUCCUGUCCGUUCCAAUAGUAAAAGCCAUAU

((((((((((((((((..((((((..&.....)))))))).)))))).....)))))))). -
17.70

mir-135b SINFRUG00000121517 2000 nt UTR 2 hits 1493 1663

-----1-----1-----

>SINFRUG00000121517 hs-mir-135b 1493 1500

UAUGGCUUUUUAUCCUAUGUGAU&GUUUUUUUAGCUCAGAUAGGACUUUUCACUAGACGAAGCCAUAU

((((((((((((..((((((..&.....)))))))).)))))).....)))))))). -
23.43

>SINFRUG00000121517 hs-mir-135b 1663 1670

UAUGGCUUUUUAUCCUAUGUGAU&GGCUGACGUAACACAGAGAACACGUAUGUAGAAGAAGCCAUAU

.((((((((((((((..((((((..&.....)))))))).)))))).....)))))))). -
23.50

mir-135b SINFRUG00000145582 2000 nt UTR 1 hits 235

-----1-----

>SINFRUG00000145582 hs-mir-135b 235 242

UAUGGCUUUUUAUCCUAUGUGAU&ACGUGAAACGUGACAUUAUCAAGAUACAGAGUAUAAGCCAUAU

((((((((((..((((((..((((((..&.....))))))..))))..))))..))))..)))).. -
19.70

miRNA: mir-135b

Human predicted target: ENSG00000158186

Mouse predicted target: ENSMUSG00000032470

Rat predicted target: ENSRNOG00000014060

Fugu predicted target: SINFRUG00000121799

Hs Gene description: RAS-RELATED PROTEIN M-RAS (RAS-RELATED PROTEIN R-RAS3). [Source:SWISSPROT;Acc:O14807] NM_012219

mir-135b ENSG00000158186 2178 nt UTR 2 hits 365 1131

-----1-----1-----

>ENSG00000158186 hs-mir-135b 365 372

UAUGGCUUUUUAUCCUAUGUGAU&UGUGGAAGUGUUUAUCCACAUACAAAGUACAAAACAAGCCAUGA

((((((((((..((((((..((((((..&.....))))))..))))..))))..))))..)))).. -
18.30

>ENSG00000158186 hs-mir-135b 1131 1138

UAUGGCUUUUUAUCCUAUGUGAU&CAAUACUGUUUAUCACUAAAACAGCACCAAGACCUGAAGCCAUC

.((((((((((.....((((((&.....))))))..))))..))))..)))).. -
15.55

mir-135b ENSMUSG00000032470 2425 nt UTR 3 hits 313 1016 1857

-----1-----1-----
1-----

>ENSMUSG00000032470 hs-mir-135b 313 320

UAUGGCUUUUUAUCCUAUGUGAU&UAUGGAAGUGCUUACCCACAUACAACGCACCAGACAAGCCAUGA

(((((.....((((((..&.....)))))).....))))). -
17.20

>ENSMUSG00000032470 hs-mir-135b 1016 1023

UAUGGCUUUUUAUCCUAUGUGAU&GCUCAAUACUAUUAUCUCAGAAGCCCCAGGACCUGAAGCCAUI

.(((((((.....((((((..&.....)))))).....))))). -
18.30

>ENSMUSG00000032470 hs-mir-135b 1857 1864

UAUGGCUUUUUAUCCUAUGUGAU&AUGCUCUACACUCAGGGCAGCAGCCACUGCCAGAGAAGCCAUGU

(((((.....((((((..&.....)))))).....))))). -
21.33

mir-135b ENSRNOG00000014060 2480 nt UTR 3 hits 318 1011 1814

-----1-----1-----1-----1-----1-----1-----

>ENSRNOG00000014060 hs-mir-135b 318 325

UAUGGCUUUUUAUCCUAUGUGAU&UGGAAGUGCUUUUAUCCACAUUCAACGCACCAGACAAGCCAUGA

(((((.....((((((..&.....)))))).....))))). -
16.50

>ENSRNOG00000014060 hs-mir-135b 1011 1018

UAUGGCUUUUUAUCCUAUGUGAU&CCGAAGGCACUGCUGUCUGGGAAGCCCCAGGACUGAAGCCAUC

.(((((((.....((((((..&.....)))))).....))))). -
18.04

>ENSRNOG00000014060 hs-mir-135b 1814 1821

UAUGGCUUUUUAUCCUAUGUGAU&AUAGUCCACACUCAGGGCAGCAGCCACUGCCAGAGAAGCCAUGU

(((((.....((((((..&.....)))))).....))))). -
21.33

mir-135b SINFRUG00000121799 2000 nt UTR 1 hits 1169

-----1-----1-----1-----1-----1-----1-----

>SINFRUG00000121799 hs-mir-135b 1169 1176

UAUGGCUUUUUAUCCUAUGUGAU&UCUGGUGCCGUAGCCCUGGGACCCGCCGGGGCCCGAAGCCAUGU

((((((((((.....((((..((..&.....))))))..))))))..)))))).. -
20.40

miRNA: mir-135b

Human predicted target: ENSG00000172845

Mouse predicted target: ENSMUSG00000027109

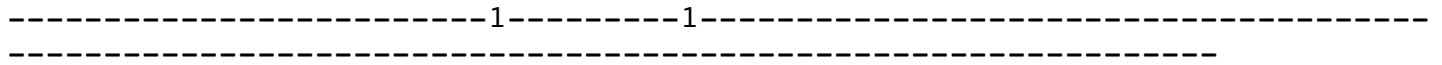
Mouse predicted target: ENSMUSG00000041788

Rat predicted target: ENSRNOG00000019263

Fugu predicted target: SINFRUG00000140785

Hs Gene description: TRANSCRIPTION FACTOR SP3 (SPR-2) (FRAGMENT).
[Source:SWISSPROT;Acc:Q02447]

mir-135b ENSG00000172845 3411 nt UTR 2 hits 633 886



>ENSG00000172845 hs-mir-135b 633 640

UAUGGCUUUUUAUCCUAUGUGAU&ACUCUAGGGAUAGUCACCUUUUAAAUCUGUUGAAAAGCCAUGU

((((((((((((((((.....&.....))))))..))))))..)))))).. -
21.09

>ENSG00000172845 hs-mir-135b 886 893

UAUGGCUUUUUAUCCUAUGUGAU&CUUGUUUCCAAAACCAUGUCUCCCAGGGCCUAAAAGCCAUC

.((((((((((.....((((..((..&.....))))))..))))))..)))))).. -
19.70

mir-135b ENSMUSG00000027109 3632 nt UTR 2 hits 628 910

-----1-----1-----

>ENSMUSG00000027109 hs-mir-135b 628 635

UAUGGCUUUUUAUCCUAUGUGAU&CCUUUAGGGAUAGUCACCUUUUAAAUCCUGUUGAAAAGCCAUGU

(((((.....&.....))))). -
21.19

>ENSMUSG00000027109 hs-mir-135b 910 917

UAUGGCUUUUUAUCCUAUGUGAU&AAAAAAAAAAAAAAAAUAUGUCUGCCAGGGCCUAAAAGCCAUC

.(((.....&.....))))). -
19.20

mir-135b ENSMUSG00000041788 2000 nt UTR 1 hits 1252

-----1-----

>ENSMUSG00000041788 hs-mir-135b 1252 1259

UAUGGCUUUUUAUCCUAUGUGAU&UUAGUUGUAGGCAAUGAAGUUUAUGUGGGUUGCAAAGCCAUG

(((((.....&.....))))). -
25.50

mir-135b ENSRNOG00000019263 3628 nt UTR 2 hits 630 900

-----1-----1-----

>ENSRNOG00000019263 hs-mir-135b 630 637

UAUGGCUUUUUAUCCUAUGUGAU&CCUUUAGGGAUAGUCACCUUUUAAAUCCUGUUGAAAAGCCAUGU

(((((.....&.....))))). -
21.19

>ENSRNOG00000019263 hs-mir-135b 900 907

UAUGGCUUUUUAUCCUAUGUGAU&CUUGUUUCCAAAAAUAUGUCUGCCAGGGCCUAAAAGCCAUC

.(((.....&.....))))). -
19.20

mir-135b SINFRUG00000140785 2000 nt UTR 1 hits 1182

-----1-----

>SINFRUG00000140785 hs-mir-135b 1182 1189

UAUGGCUUUUUUAUCCUAUGUGAU&ACAUGUAUGUUAUCUUAUUUUCACAUUGUUCAUAGAAGCCAUI

.((((((((((.....((((((.&.....)))))).....)))))))). -
21.94

miRNA: mir-135b

Human predicted target: ENSG00000173153

Mouse predicted target: ENSMUSG00000024955

Rat predicted target: ENSRNOG00000021139

Fugu predicted target: SINFRUG00000131162

Hs Gene description: STEROID HORMONE RECEPTOR ERR1 (ESTROGEN-RELATED RECEPTOR, ALPHA) (ERR-ALPHA) (ESTROGEN RECEPTOR-LIKE 1).
[Source:SWISSPROT;Acc:P11474] NM_004451

mir-135b ENSG00000173153 2779 nt UTR 2 hits 228 267

-----11-----

>ENSG00000173153 hs-mir-135b 228 235

UAUGGCUUUUUUAUCCUAUGUGAU&UGUGUCCAGGCUCUGGGCACAGUGCUGCCCCUUGCAAGCCAUIA

.((((((((((.....((((((.&.....)))))).....)))))))). -
16.45

>ENSG00000173153 hs-mir-135b 267 274

UAUGGCUUUUUUAUCCUAUGUGAU&CAUAACGUGCCCCAGAGUGUAGGGGGCCUUGCGGAAGCCAUIAG

.((((((((((..((((((..(...&.....)..)))))).....)))))))). -
22.40

mir-135b ENSMUSG00000024955 2773 nt UTR 2 hits 237 278

-----1-1-----

>ENSMUSG00000024955 hs-mir-135b 237 244

UAUGGCUUUUUAUCCUAUGUGAU&GAAUGCCCAGGUGUGGGCACAGUGCUGCCCCUUGCAAGCCAUA

(((((.....&.....))))). -
16.46

>ENSMUSG00000024955 hs-mir-135b 278 285

UAUGGCUUUUUAUCCUAUGUGAU&UAACGUGCCCCCAAGAGUGUUGGGGGCCUCGCGGAAGCCAUAG

(((((.....&.....))))). -
19.30

mir-135b ENSRNOG00000021139 2765 nt UTR 4 hits 226 269 935 978

-----11-----1-1-----

>ENSRNOG00000021139 hs-mir-135b 226 233

UAUGGCUUUUUAUCCUAUGUGAU&GAAUGCCCAGGUGUGGGCACAGUGCUGCCCCUUGCAAGCCAUA

(((((.....&.....))))). -
16.46

>ENSRNOG00000021139 hs-mir-135b 269 276

UAUGGCUUUUUAUCCUAUGUGAU&ACGUGCCCCUCCAGAGUGUCGGGGCCUUGCGGAAGCCAUAG

(((((.....&.....))))). -
19.40

>ENSRNOG00000021139 hs-mir-135b 935 942

UAUGGCUUUUUAUCCUAUGUGAU&GAAUGCCCAGGUGUGGGCACAGUGCUGCCCCUUGCAAGCCAUA

(((((.....&.....))))). -
16.46

>ENSRNOG00000021139 hs-mir-135b 978 985

UAUGGCUUUUUAUCCUAUGUGAU&ACGUGCCCCUCCAGAGUGUCGGGGCCUUGCGGAAGCCAUG

((((((((((.....(((((((&.....)))))).....)))))))). -
19.40

mir-135b SINFRUG00000131162 2000 nt UTR 3 hits 484 1117 1456

-----1-----1-----1-----

>SINFRUG00000131162 hs-mir-135b 484 491

UAUGGCUUUUUAUCCUAUGUGAU&GCUGAACGUGGACCGGGAGGAGUUUGUUAUGCUAAAAGCCAUC

.((((((((((.....&.....)))))).....))))). -
19.30

>SINFRUG00000131162 hs-mir-135b 1117 1124

UAUGGCUUUUUAUCCUAUGUGAU&CGUACCCAUGCACAAACUCUCCUGGAGAUGCUGGAAGCCAUGA

((((((((((((.....&.....)))))).....))))). -
20.30

>SINFRUG00000131162 hs-mir-135b 1456 1463

UAUGGCUUUUUAUCCUAUGUGAU&AAAUAAACAUAACAAUGGAACAUGUAACUCCUGAAAGCCAUG

((((((((((((.....&.....)))))).....))))). -
20.80

miRNA: mir-137

Human predicted target: ENSG00000142178

Mouse predicted target: ENSMUSG00000024042

Rat predicted target: ENSRNOG00000001189

Fugu predicted target: SINFRUG00000135301

Hs Gene description: PROBABLE SERINE/THREONINE PROTEIN KINASE SNF1LK (EC 2.7.1.-). [Source:SWISSPROT;Acc:P57059] NM_173354

mir-137 ENSG00000142178 4227 nt UTR 2 hits 104 1894

-----1-----
-1-----

>ENSG00000142178 hs-mir-137 104 111

UAUUGCUUAAGAAUACGCGUAG&UGGCCUCAAGCCAAGAACUUUCUAGAAGCGAAAUAAGCAAUAC

((((((((((.....(((.((&.....)))).....)))).....))))). -15.50

>ENSG00000142178 hs-mir-137 1894 1901

UAUUGCUUAAGAAUACGCGUAG&AAAGGCCUCAGAAACCAUUGUGUGUUUCCUCUUUGAAGCAAUGA

((((((((((((((((((.....&.....)))))))).....)))).....))))). -19.00

mir-137 ENSMUSG00000024042 3967 nt UTR 2 hits 77 147

---1-1-----

>ENSMUSG00000024042 hs-mir-137 77 84

UAUUGCUUAAGAAUACGCGUAG&CCACCCCCCCCCAACCGUGGCCGAUUGACUCUCCAAGCAAUAA

((((((((((((((((.(.....&.....)))).....)))).....))))). -15.60

>ENSMUSG00000024042 hs-mir-137 147 154

UAUUGCUUAAGAAUACGCGUAG&GGACUCAAAAGCCAAGAACUUUCUAGACGUGAAACAAGCAAUAC

((((((((((.....(((.((&.....)))).....)))).....))))). -15.40

mir-137 ENSRNOG00000001189 3642 nt UTR 2 hits 54 123

--1-1-----

>ENSRNOG00000001189 hs-mir-137 54 61

UAUUGCUUAAGAAUACGCGUAG&ACCCUGCCCCCCCACCCACGGAUGGACUCUCCAAGCAAUAA

((((((((((((((.....(((.(.....&.....)))).....)))).....))))). -15.30

>ENSRNOG00000001189 hs-mir-137 123 130

UAUUGCUUAAGAAUACGCGUAG&GGACUCAAAAGCCAAGAACUUUCUAGACGUGAAACAAGCAAUUAU
((((((((.....((((..(((&.....)))))).....)))))))). -15.50

mir-137 SINFRUG00000135301 2000 nt UTR 2 hits 800 843

-----1-1-----

>SINFRUG00000135301 hs-mir-137 800 807

UAUUGCUUAAGAAUACGCGUAG&ACUGGUGUGUUAUCUUCUGUUAUAAGCUAAAUAACCAAGCAAUAA
((((((((((((((((((((((..(((&..)))))))))).....)))))))). -17.50

>SINFRUG00000135301 hs-mir-137 843 850

UAUUGCUUAAGAAUACGCGUAG&ACCAAACUCUAGAAAAAAGAGUCAGACAGACAGAAAAGCAAUAA
((((((((.....&.....)))))))). -12.60

miRNA: mir-137

Human predicted target: ENSG00000169764

Mouse predicted target: ENSMUSG00000001891

Rat predicted target: ENSRNOG00000008079

Fugu predicted target: SINFRUG00000128752

Hs Gene description: UTP--GLUCOSE-1-PHOSPHATE URIDYLYLTRANSFERASE 2 (EC 2.7.7.9) (UDP- GLUCOSE PYROPHOSPHORYLASE 2) (UDPGP 2) (UGPASE 2).
[Source:SWISSPROT;Acc:Q16851]

mir-137 ENSG00000169764 2335 nt UTR 2 hits 328 1677

-----1-----1-----

>ENSG00000169764 hs-mir-137 328 335

UAUUGCUUAAGAAUACGCGUAG&UUUGAAUUGCUUGUGAUUUCAAAAUAAGCAGUGAAGCAAUAC

(((((((((.....&.....)))))).)).....)))). -13.03

>ENSG00000169764 hs-mir-137 1677 1684

UAUUGCUUAAGAAUACGCGUAG&UUGGUCACUGAAACAAAAUUGAAUCCUAAAUCCAAGCAAUC

.(((((((.....&.....)))))).)).....)))). -10.80

mir-137 ENSMUSG00000001891 2878 nt UTR 2 hits 178 1645

-----1-----1-----

>ENSMUSG00000001891 hs-mir-137 178 185

UAUUGCUUAAGAAUACGCGUAG&UGCAAUGAGCUUUUAGUCUAAGGAAAGCAUAGAUGAAGCAAUAC

(((((((((.....&.....)))))).)).....)))). -13.60

>ENSMUSG00000001891 hs-mir-137 1645 1652

UAUUGCUUAAGAAUACGCGUAG&UUGGUCAUAAAACAAAACUGAAUCCUAAAUCCAAGCAAUC

.(((((((.....&.....)))))).)).....)))). -10.80

mir-137 ENSRNOG00000008079 2000 nt UTR 2 hits 176 1543

-----1-----1-----

>ENSRNOG00000008079 hs-mir-137 176 183

UAUUGCUUAAGAAUACGCGUAG&UGCAAUGAGCUUUUAGUCUAAGGAAAGCCUAAACAAAGCAAUAC

(((((((((.....&.....)))))).)).....)))). -12.30

>ENSRNOG00000008079 hs-mir-137 1543 1550

UAUUGCUUAAGAAUACGCGUAG&UUGGUCACUAAAACAAAACUGAAUUUCUAAAUCCAAGCAAUC

.(((((((.....&.....)))))).)).....)))). -10.80

mir-137 SINFRUG00000128752 2000 nt UTR 1 hits 1377

-----1-----

>SINFRUG00000128752 hs-mir-137 1377 1384

UAUUGCUUAAGAAUACGCGUAG&UGGUUUCAGUGAGAAUACUUGAGACGUGGACCUGAAAGCAAUAA

(((((((((((((.....((((((...&.....)))))).....)))))))). -19.20

miRNA: mir-138

Human predicted target: ENSG00000114993

Mouse predicted target: ENSMUSG00000034930

Rat predicted target: ENSRNOG00000009022

Fugu predicted target: SINFRUG00000154952

Hs Gene description: RHOTEKIN. [Source:RefSeq;Acc:NM_033046] NM_033046

mir-138 ENSG00000114993 2381 nt UTR 2 hits 441 2363

-----1-----
-----1-----

>ENSG00000114993 hs-mir-138 441 448

AGCUGGUGUUGUGAAUC&CUAGACCUGCCUCACAUCAUCCUGGAGCAUAGUUCACCAGCUG

(((((((((((((.....((((((...&.....)))))).....)))))))). -21.15

>ENSG00000114993 hs-mir-138 2363 2370

AGCUGGUGUUGUGAAUC&AGUACAAUGUUGGGACCCUUUGCUGGGAUGUCAAAACACCAGCA

.(((((((((((((.....((((((...&.....)))))).....)))))))). -22.40

mir-138 ENSMUSG00000034930 2355 nt UTR 2 hits 1532 2069

-----1-----
-----1-----

>ENSMUSG00000034930 hs-mir-138 1532 1539

AGCUGGUGUUGUGAAUC&UGCUUCUACAGGGAAAGGGUGAGAGGUGGCUCUUCACCAGCUC

(((((((((.....((..(&.....).....)).)).....)))).)). -18.80

>ENSMUSG00000034930 hs-mir-138 2069 2076

AGCUGGUGUUGUGAAUC&GUCUGGGAGAUGGUAGAUUCCAACUUCUGGAUUCACACCAGCG

.((((((((.....(((((&.....).....)).....)))).)). -22.40

mir-138 ENSRNOG00000009022 2331 nt UTR 2 hits 1697 1960

-----1-----
----1-----

>ENSRNOG00000009022 hs-mir-138 1697 1704

AGCUGGUGUUGUGAAUC&GUCCCUAGACCUCCUGACCUGGUGUCAGGCAGACACACCAGCUA

(((((((((.....&.....).....)).....)))). -20.80

>ENSRNOG00000009022 hs-mir-138 1960 1967

AGCUGGUGUUGUGAAUC&AUCUGGGAGAUGGUAGGCUCCAACUUCUGGAUUCACACCAGCG

.((((((((.....(((((&.....).....)).....)))). -22.40

mir-138 SINFRUG00000154952 2000 nt UTR 2 hits 1136 1412

-----1-----1-----

>SINFRUG00000154952 hs-mir-138 1136 1143

AGCUGGUGUUGUGAAUC&GCCAGCGUGACGUCCGACAGCGACAGCCACUGCAGCACCAGCC

.((((((((.....&.....).....)).....)))). -24.30

>SINFRUG00000154952 hs-mir-138 1412 1419

AGCUGGUGUUGUGAAUC&CAGACCACGCUGUCCUGCUCCAGCUCCACCUCAGCACCAGCUC

((((((((((.....((...&.....).....)).....)))). -24.40

miRNA: mir-140

Human predicted target: ENSG00000034677

Mouse predicted target: ENSMUSG00000022280

Rat predicted target: ENSRNOG00000009658

Fugu predicted target: SINFRUG00000139353

Hs Gene description: RING FINGER PROTEIN 19 (DORFIN) (DOUBLE RING-FINGER PROTEIN) (P38 PROTEIN). [Source:SWISSPROT;Acc:Q9NV58] NM_015435

mir-140 ENSG00000034677 2000 nt UTR 1 hits 398

-----1-----

>ENSG00000034677 hs-mir-140 398 405

AGUGGUUUUACCCUAUGGUAG&GGCUUUAGGGGAUAAGUGGUUAGUGAUUUUUUUGAAACCACUA

(((((((((((((((((((.(((..&..)))..)))))).....)))))))). -23.40

mir-140 ENSMUSG00000022280 3435 nt UTR 1 hits 391

-----1-----

>ENSMUSG00000022280 hs-mir-140 391 398

AGUGGUUUUACCCUAUGGUAG&AGGCUUAGGGGAUGAGUGGUUAGUGACAUUUUUUUGAAACCACUA

(((((((((((((((((((((((.(((..&..)))..)))))).....)))))))). -21.90

mir-140 ENSRNOG00000009658 3003 nt UTR 1 hits 382

-----1-----

>ENSRNOG00000009658 hs-mir-140 382 389

AGUGGUUUUACCCUAUGGUAG&AGGCUUAGGGGAUAAGUGGUUAGUGACAUUUUUUUGAAACCACUA

(((((((((((((((((((((((.(((..&..)))..)))))).....)))))))). -21.90

mir-140 SINFRUG00000139353 2000 nt UTR 2 hits 550 631

-----1--1-----

>SINFRUG00000139353 hs-mir-140 550 557
AGUGGUUUUACCCUAUGGUAG&CAUGUGAGAGGGGCGUGAAAUUGGUCUUUCUUUGCAAACCACA
.(((((((...(((.....&.....))))).))))). -16.71

>SINFRUG00000139353 hs-mir-140 631 638
AGUGGUUUUACCCUAUGGUAG&CGGGCAGAUGGUGCAGCCUCCUGUCUGUUUAAACAAAACCACUG
(((((((...(((.....&.....))))).))))). -16.30

miRNA: mir-140

Human predicted target: ENSG00000126562

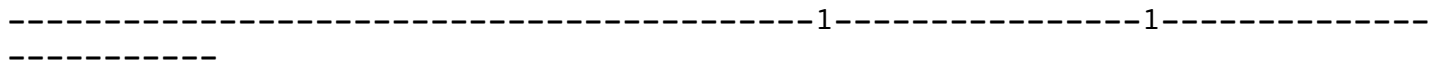
Mouse predicted target: ENSMUSG00000035112

Rat predicted target: ENSRNOG00000020476

Fugu predicted target: SINFRUG00000154207

Hs Gene description: PROTEIN KINASE, LYSINE DEFICIENT 4; PUTATIVE PROTEIN KINASE WNK4. [Source:RefSeq;Acc:NM_032387]

mir-140 ENSG00000126562 2112 nt UTR 2 hits 1072 1499



>ENSG00000126562 hs-mir-140 1072 1079
AGUGGUUUUACCCUAUGGUAG&UCGUAACAACUGCGUCCUGGAAGGUGAAGGGGGUAAACCACA
.(((((((...(((.....&.....))))).))))). -22.15

>ENSG00000126562 hs-mir-140 1499 1506
AGUGGUUUUACCCUAUGGUAG&UAGAAGGUGUAACCAUCUGGGGAGGUAGGUUCAGGAAACCACA
.(((((((...(((.....&.....))))).))))). -24.14

mir-140 ENSMUSG00000035112 2022 nt UTR 2 hits 1061 1440

-----1-----1-----

>ENSMUSG00000035112 hs-mir-140 1061 1068
AGUGGUUUUACCCUAUGGUAG&CCUUAAGAGUCGGGGCCCCUGGGAGGUGAAGGGGUAAACCACA
.(((((((.....&.....)))))))). -22.40

>ENSMUSG00000035112 hs-mir-140 1440 1447
AGUGGUUUUACCCUAUGGUAG&UAGAAGGUGUAACCAUCUGACGGAGUGGGUUCAGGAAACCACA
.(((((((.....&.....)))).....))))). -22.60

mir-140 ENSRNOG00000020476 2000 nt UTR 2 hits 1154 1534

-----1-----1-----

>ENSRNOG00000020476 hs-mir-140 1154 1161
AGUGGUUUUACCCUAUGGUAG&CCCUUAACAUGGGCCCCUGGGAGGUGAAGAGGUAAACCACA
.(((((((.....&.....)))).....))))). -19.81

>ENSRNOG00000020476 hs-mir-140 1534 1541
AGUGGUUUUACCCUAUGGUAG&UAGAAGGUGUAACCAUCUGGCGGGUGGGUUCAGGAAACCACA
.(((((((.....&.....)))).....))))). -24.20

mir-140 SINFRUG00000154207 839 nt UTR 1 hits 368

-----1-----

>SINFRUG00000154207 hs-mir-140 368 375
AGUGGUUUUACCCUAUGGUAG&AAAUGAUGAUUCAGGGUUGACUUCUGCCUGGAUAAAACCACG
.(((((((.....&.....)))).....))))). -24.60

miRNA: mir-140

Human predicted target: ENSG00000143816

Mouse predicted target: ENSMUSG00000000126

Rat predicted target: ENSRNOG00000003066

Fugu predicted target: SINFRUG00000147642

Hs Gene description: WNT-14 PROTEIN PRECURSOR.
[Source:SWISSPROT;Acc:O14904] NM_003395

mir-140 ENSG00000143816 2522 nt UTR 2 hits 912 1210

-----1-----1-----

>ENSG00000143816 hs-mir-140 912 919

AGUGGUUUUACCCUAUGGUAG&GGCUGCCCCAACACCAGCACUGUCUUCAGAGACUCAACCACUA

(((((.....((..((((&..))))).)))).)))). -16.05

>ENSG00000143816 hs-mir-140 1210 1217

AGUGGUUUUACCCUAUGGUAG&CUCCUAACCCUGCCUCUGAUCUGCUUAGUUGUUUGAAACCACUA

(((((.....((..((((&.....))))).)))).)))). -20.80

mir-140 ENSMUSG00000000126 2001 nt UTR 2 hits 575 835

-----1-----1-----

>ENSMUSG00000000126 hs-mir-140 575 582

AGUGGUUUUACCCUAUGGUAG&CAGCCUGAUGCCAGCACUGUCUUCUUCAGAGAGCCAAACCACUA

(((((.....((..((((&.....))))).)))).)))). -18.03

>ENSMUSG00000000126 hs-mir-140 835 842

AGUGGUUUUACCCUAUGGUAG&UCAUCGUCCCCCUCCUUGCUUGCUCUAGUUUGAAACCACUA

(((((.....((..((((&.....))))).)))).)))). -23.10

mir-140 ENSRNOG00000003066 4058 nt UTR 2 hits 550 807

-----1-----1-----

>ENSRNOG00000003066 hs-mir-140 550 557
AGUGGUUUUACCCUAUGGUAG&CAGCAGCCUGACGCCAGCACUGUCUUCAGAGAGCCAAACCACUA
((((((((((..((..(((..&.....))))).)))).)))). -17.14

>ENSRNOG00000003066 hs-mir-140 807 814
AGUGGUUUUACCCUAUGGUAG&UUCAUACUCCUCCUCGUCUGCUUGCUCUAGUUUGAAACCACUA
((((((((((..((..(((&.....))))).)))).)))). -23.10

mir-140 SINFRUG00000147642 2000 nt UTR 2 hits 565 833

-----1-----1-----

>SINFRUG00000147642 hs-mir-140 565 572
AGUGGUUUUACCCUAUGGUAG&UACUAUAUAAGCCACUUAUCUAACGAUGUAAAACAAACCACUA
((((((((((.....(((..(((&.....))))).)))).)))). -13.80

>SINFRUG00000147642 hs-mir-140 833 840
AGUGGUUUUACCCUAUGGUAG&CAGCCUUGAACGAAGCAGAGUUCAGGGAAUGACUUAACCACUA
((((((((((..(((.....&.....))))).)))).)))). -17.60

- miRNA: mir-142as
- Human predicted target: ENSG00000104388
- Mouse predicted target: ENSMUSG00000050754
- Mouse predicted target: ENSMUSG00000047187
- Rat predicted target: ENSRNOG00000005963
- Fugu predicted target: SINFRUG00000143003

Hs Gene description: RAS-RELATED PROTEIN RAB-2A.
[Source:SWISSPROT;Acc:P08886] NM_002865

mir-142as ENSG00000104388 2301 nt UTR 1 hits 289

-----1-----

>ENSG00000104388 hs-mir-142as 289 296

UGUAGUGUUUCCUACUUUAUGG&UCUUGUGCCCUUAACUACGAACUGAAUUGUAUUAACACUACAA

((((((((((((..(((.....&.....)))))))).)))))). -18.80

mir-142as ENSMUSG00000050754 2000 nt UTR 1 hits 281

-----1-----

>ENSMUSG00000050754 hs-mir-142as 281 288

UGUAGUGUUUCCUACUUUAUGG&UCUUGUGCCAUUAACUACGAGCUGAAUUGUAUUAAGACACUACAA

((((((((((((..(((.....&.....)))))))).)))))). -18.85

mir-142as ENSMUSG00000047187 2162 nt UTR 2 hits 284 822

-----1-----1-----

>ENSMUSG00000047187 hs-mir-142as 284 291

UGUAGUGUUUCCUACUUUAUGG&UCUUGUGCCCUUAACUACGAGCUGAAUUGUAUUAACACUACAA

((((((((((((..(((.....&.....)))))))).)))))). -18.80

>ENSMUSG00000047187 hs-mir-142as 822 829

UGUAGUGUUUCCUACUUUAUGG&UGUAAUGAGUGGGACGGGCAGAAACAGAAACUCCAACACUACAC

((((((((((((((((((.....&.....)))))))).)))))). -22.65

mir-142as ENSRNOG00000005963 3227 nt UTR 3 hits 288 824 2382

-----1-----1-----
-----1-----

>ENSRNOG00000005963 hs-mir-142as 288 295
UGUAGUGUUUCCUACUUUAUGG&CUUGUGCCCUUAACUACGAGCUGAAUUGUAUUAAAACACUACAA
((((((((((..((.....&.....)))))))). -17.30

>ENSRNOG00000005963 hs-mir-142as 824 831
UGUAGUGUUUCCUACUUUAUGG&GGUGUAAUGAGUGGGAAGGGCAGACACAAACUCCAACACUACGC
((((((((((((((.....&.....)))))))). -22.06

>ENSRNOG00000005963 hs-mir-142as 2382 2389
UGUAGUGUUUCCUACUUUAUGG&ACUGAAUCUGUAGUGUUUCCAUGUUCUGCUUGAGACACUACAC
((((((((((((.....(((&.....)))))))). -20.53

mir-142as SINFRUG00000143003 2000 nt UTR 1 hits 738

-----1-----

>SINFRUG00000143003 hs-mir-142as 738 745
UGUAGUGUUUCCUACUUUAUGG&CUGACUCUGUCCUUUUGUUGAUUUGCAUUCAAGGAACACUACAA
((((((((((((.....&.....)))))))). -19.20

miRNA: mir-142as

Human predicted target: ENSG00000104866

Mouse predicted target: ENSMUSG00000051403

Rat predicted target: ENSRNOG00000017692

Fugu predicted target: SINFRUG00000123919

mir-142as ENSG00000104866 2718 nt UTR 1 hits 142

-----1-----

>ENSG00000104866 hs-mir-142as 142 149
UGUAGUGUUUCCUACUUUAUGG&GGGGGCAUUCUGGGGCCCCCUCCCCCACAGCAACACUACAA
((((((((((((((((.....(((&.....)))))).....)))))))). -19.76

mir-142as ENSMUSG00000051403 2494 nt UTR 2 hits 119 689

-----1-----1-----

>ENSMUSG00000051403 hs-mir-142as 119 126
UGUAGUGUUUCCUACUUUAUGG&AGACCAGGCAGAGCAUCCCAAGCCUCGCCACAACAACACUACAG
((((((((((((.....&.....)))))).....)))))). -15.30

>ENSMUSG00000051403 hs-mir-142as 689 696
UGUAGUGUUUCCUACUUUAUGG&AGACCAGGCAGAGCAUCCCAAGCCUCGCCACAACAACACUACAG
((((((((((((.....&.....)))))).....)))))). -15.30

mir-142as ENSRNOG00000017692 2597 nt UTR 1 hits 1439

-----1-----

>ENSRNOG00000017692 hs-mir-142as 1439 1446
UGUAGUGUUUCCUACUUUAUGG&GCACCCCCUCUCUAUGAACCCACACCUCAGGAGCACACUACAG
((((((((((((((((.....(((&.....)))))).....)))))))). -22.00

mir-142as SINFRUG00000123919 2000 nt UTR 2 hits 187 1412

-----1-----1-----

>SINFRUG00000123919 hs-mir-142as 187 194
UGUAGUGUUUCCUACUUUAUGG&CUCAAGCAAGGGCACACGGUCCUUCACGCACCCACACACUACAG
((((((((((((.....&.....)))))).....)))))). -14.40

>SINFRUG00000123919 hs-mir-142as 1412 1419

UGUAGUGUUUCCUACUUUAUGG&UGAAAAGAACUUUAUCAAGCUAUCUCUCUCCAUCCACACUACAU

(((((((((.....&.....)))))))). -14.20

miRNA: mir-142s

Human predicted target: ENSG00000069849

Mouse predicted target: ENSMUSG00000032412

Rat predicted target: ENSRNOG00000011501

Fugu predicted target: SINFRUG00000151188

Fugu predicted target: SINFRUG00000151191

Hs Gene description: SODIUM/POTASSIUM-TRANSPORTING ATPASE BETA-3 CHAIN (SODIUM/POTASSIUM- DEPENDENT ATPASE BETA-3 SUBUNIT) (ATPB-3).

[Source:SWISSPROT;Acc:P54709] NM_001679

mir-142s ENSG00000069849 2839 nt UTR 1 hits 335

-----1-----

>ENSG00000069849 hs-mir-142s 335 342

CCCAUAAAGUAGAAAGCACUAC&UGUCUAAAGCUUAAUAUGCCGUGCUAUGUAAAUAUUUUUAUGGA

.(((((((((((.....&.....)))))))). -20.80

mir-142s ENSMUSG00000032412 2000 nt UTR 1 hits 329

-----1-----

>ENSMUSG00000032412 hs-mir-142s 329 336

CCCAUAAAGUAGAAAGCACUAC&CGUCUAAAGCUUCAUGUGCUGGGCUGUGUACAUAUUUUUAUGGA

.(((((((((((.....&.....)))))))). -20.16

mir-142s ENSRNOG00000011501 2836 nt UTR 1 hits 326

-----1-----

>ENSRNOG00000011501 hs-mir-142s 326 333

CCCAUAAAGUAGAAAGCACUAC&UGUCUAAAGCUUCAUGUGCUGUGCUGUGUAAAUAUUUUUAUGGA

.((((((((((...(((((...&.....)))))).....)))))))). -21.60

mir-142s SINFRUG00000151188 2000 nt UTR 1 hits 459

-----1-----

>SINFRUG00000151188 hs-mir-142s 459 466

CCCAUAAAGUAGAAAGCACUAC&CUUCCUGCUGUCAGGGGGAGAACGCUGUUCUCGUCUUUAUGGGA

(((((((((((.((((((((.....&.....)))))).)))).....)))))))). -23.40

mir-142s SINFRUG00000151191 2000 nt UTR 1 hits 1299

-----1-----

>SINFRUG00000151191 hs-mir-142s 1299 1306

CCCAUAAAGUAGAAAGCACUAC&CUUCCUGCUGUCAGGGGGAGAACGCUGUUCUCGUCUUUAUGGGA

(((((((((((.((((((((.....&.....)))))).)))).....)))))))). -23.40

miRNA: mir-145

Human predicted target: ENSG00000109189

Mouse predicted target: ENSMUSG00000048255

Rat predicted target: ENSRNOG00000002106

Fugu predicted target: SINFRUG00000123610

Hs Gene description: NM_022832

mir-145 ENSG00000109189 4611 nt UTR 2 hits 1506 2962

-----1-----
-----1-----

>ENSG00000109189 hs-mir-145 1506 1513

GUCCAGUUUUCCCAGGAAUCCCUU&CAACAAUGAAGAGGAUAGCACUUUAUCUAGAUGAAAACUGGAUU

((((((((((((. (((((((((&.....))) .)))))) .)) .))) .)) . -
22.80

>ENSG00000109189 hs-mir-145 2962 2969

GUCCAGUUUUCCCAGGAAUCCCUU&AUUUCAUGGGCAUGCCUAAUAAUGAUCUAUGUUCUAACUGGAG

.((((((((((. (((((((((&.....))) .)))))) .)) .))) .)) . -
18.33

mir-145 ENSMUSG00000048255 3996 nt UTR 1 hits 1556

-----1-----

>ENSMUSG00000048255 hs-mir-145 1556 1563

GUCCAGUUUUCCCAGGAAUCCCUU&CAGCAGUGAAGAGGAUAGCACUUUAUCUAGGUGAAAACUGGACU

((((((((((((. (((((((((&.....))) .)))))) .)) .))) .)) . -
30.20

mir-145 ENSRNOG00000002106 3862 nt UTR 1 hits 1422

-----1-----

>ENSRNOG00000002106 hs-mir-145 1422 1429

GUCCAGUUUUCCCAGGAAUCCCUU&CAGCAACGAAGAGGAUAGCACUUUAUCUAGGUGAAAACUGGACU

((((((((((((. (((((((((&.....))) .)))))) .)) .))) .)) . -
30.20

mir-145 SINFRUG00000123610 2000 nt UTR 2 hits 709 1137

-----1-----1-----

>SINFRUG00000123610 hs-mir-145 709 716

GUCCAGUUUCCAGGAAUCCCUU&AAGCUGAAGAUGGGACACAAACAUGACUGCCCAUAACUGGAA

.(((((((.....(((..(((..&.....))))).)))).)))). -
19.60

>SINFRUG00000123610 hs-mir-145 1137 1144

GUCCAGUUUCCAGGAAUCCCUU&ACCUUUUUGGGUGAAGUUGUGAGGAACACGUGCCAAACUGGAG

.(((((((.....(((..(((..&.....))))).)))).)))). -
22.80

miRNA: mir-145

Human predicted target: ENSG00000114993

Mouse predicted target: ENSMUSG00000034930

Rat predicted target: ENSRNOG00000009022

Fugu predicted target: SINFRUG00000154952

Hs Gene description: RHO TEKIN. [Source:RefSeq;Acc:NM_033046] NM_033046

mir-145 ENSG00000114993 2381 nt UTR 1 hits 236

-----1-----

>ENSG00000114993 hs-mir-145 236 243

GUCCAGUUUCCAGGAAUCCCUU&CUCGCUGGGACCUCUCAAACCCUCCUGGAAGAAAACUGGAA

.(((((((.....(((..(((..&.....))))).)))).)))). -
33.01

mir-145 ENSMUSG00000034930 2355 nt UTR 1 hits 235

-----1-----

>ENSMUSG00000034930 hs-mir-145 235 242

GUCCAGUUUCCAGGAAUCCCUU&CUGGCUAGGAUCCCCUAAGCGCUUCCUGGGAGAAAACUGGAA

.((((((((((((((((((((((.(((&.....)))))).)))))..)))))))). -
30.10

mir-145 ENSRNOG0000009022 2331 nt UTR 2 hits 50 222

-1-----1-----

>ENSRNOG0000009022 hs-mir-145 50 57

GUCCAGUUUCCAGGAAUCCCUU&AAGAGGAUGGCCAAGAGAGAAAUGACCCAAGGACAACUGGACU

(((((((((.(((..(((((((((&))))..))))..))))..))))..))))..)))).. -
25.45

>ENSRNOG0000009022 hs-mir-145 222 229

GUCCAGUUUCCAGGAAUCCCUU&CUAGGACCCCCCCCCCAAGCGCUUCCUGGGAGAAAACUGGAA

.((((((((((((((((((((((.(((&.....)))))).)))))..)))))))). -
30.20

mir-145 SINFRUG00000154952 2000 nt UTR 1 hits 1708

-----1-----

>SINFRUG00000154952 hs-mir-145 1708 1715

GUCCAGUUUCCAGGAAUCCCUU&GUGGGACAGGUGUCAAGGAGGUCCUCUGGAGUAAAACUGGAA

.((((((((((((((((((((((.(((((((((&.....))))..))))..))))..))))..)))).. -
26.80

miRNA: mir-145

Human predicted target: ENSG00000151702

Mouse predicted target: ENSMUSG00000016087

Rat predicted target: ENSRNOG00000008904

Fugu predicted target: SINFRUG00000153677

Hs Gene description: FRIEND LEUKEMIA INTEGRATION 1 TRANSCRIPTION FACTOR (FLI-1 PROTO- ONCOGENE) (ERGB TRANSCRIPTION FACTOR).

[Source:SWISSPROT;Acc:Q01543] NM_002017

mir-145 ENSG00000151702 3428 nt UTR 3 hits 100 485 525

---1-----11-----

>ENSG00000151702 hs-mir-145 100 107

GUCCAGUUUCCAGGAAUCCCUU&UCAACAGGACAU AUGUGGCCUUGAAGGGAAGACAAAACUGGAUG

(((((.....(((((&.....)))))).....))))). -
22.60

>ENSG00000151702 hs-mir-145 485 492

GUCCAGUUUCCAGGAAUCCCUU&AUCUAAUUUUAGGAGGACCAAUUCAGUGGAUGGCAACUGGAA

.(((((((.....(((((&.....)))))).....))))). -
20.60

>ENSG00000151702 hs-mir-145 525 532

GUCCAGUUUCCAGGAAUCCCUU&GAACAUUGAUUGUAAGGCCAGUGAAGUUUCACCCAACUGGAA

.(((((((.....(((((&.....)))))).....))))). -
15.00

mir-145 ENSMUSG00000016087 2126 nt UTR 3 hits 97 503 544

---1-----11-----

>ENSMUSG00000016087 hs-mir-145 97 104

GUCCAGUUUCCAGGAAUCCCUU&CUCUAAAAGGCACAGUAGCCUUGAAGAGAU AAGAAAACUGGAUG

(((((.....(((((&.....)))))).....))))). -
20.80

>ENSMUSG00000016087 hs-mir-145 503 510

GUCCAGUUUCCCAGGAAUCCCUU&AUCUUAUCUUCGGAGGACUCAAUUCAGUGGAUGGCAACUGGAA

.(((((((.((((.((((.((((.&.....))))).))))).))))).))))). -
20.60

>ENSMUSG00000016087 hs-mir-145 544 551

GUCCAGUUUCCCAGGAAUCCCUU&AACACUGGCUCUGAGGCCAGUGAAGUUUUUUGCCCAACUGGAA

.(((((((.....(((.((((.&.....))))).))))).))))).))))). -
16.20

mir-145 ENSRNOG00000008904 2000 nt UTR 3 hits 102 536 576

-----1-----1-1-----

>ENSRNOG00000008904 hs-mir-145 102 109

GUCCAGUUUCCCAGGAAUCCCUU&CUCUAAAAGAUGCUGUAGCUUUGAAGAGAUAGAAAACUGGAUG

(((((((((.....(((.((((.&.....))))).))))).))))).))))). -
19.90

>ENSRNOG00000008904 hs-mir-145 536 543

GUCCAGUUUCCCAGGAAUCCCUU&AUCUUUUCUUCUAGGAGGACUUAUUCAGCGGAUGGCAACUGGAA

.(((((((.((((.....(((.((((.&.....))))).))))).))))).))))). -
20.60

>ENSRNOG00000008904 hs-mir-145 576 583

GUCCAGUUUCCCAGGAAUCCCUU&GAACACCGGCUGGGAGGCUGGUGAAGUCCCUGCCCAACUGGAA

.((((((((((.....(((.((((.&.....))))).))))).))))).))))). -
26.20

mir-145 SINFRUG00000153677 2000 nt UTR 3 hits 189 556 594

-----1-----11-----

>SINFRUG00000153677 hs-mir-145 189 196

GUCCAGUUUUUCCAGGAAUCCCUU&GAAGAUUUUUUCUAUUGUUUUUAAGAAUCUAUGAACAAACUGGAUG

((((((((((((...(((.(.....&.....))))).)))..))))). -
18.20

>SINFRUG00000153677 hs-mir-145 556 563

GUCCAGUUUUUCCAGGAAUCCCUU&AGAUGAACUUUUCUCAGCACUGAAUGAAAUGAGGCAACUGGAA

.((((((((((...(((.(.....&.....))))).)))..))))). -
16.00

>SINFRUG00000153677 hs-mir-145 594 601

GUCCAGUUUUUCCAGGAAUCCCUU&UGGAAUGUGCCAUAUCAUGCUUUUGGUUAUCCUCCAAACUGGAA

.((((((((((...(((.(.....&.....))))).)))..))))). -
19.60

miRNA: mir-153

Human predicted target: ENSG00000011114

Mouse predicted target: ENSMUSG00000041702

Rat predicted target: ENSRNOG00000008531

Fugu predicted target: SINFRUG00000125067

Hs Gene description: NM_018167

mir-153 ENSG00000011114 2000 nt UTR 1 hits 1760

-----1-----

>ENSG00000011114 hs-mir-153 1760 1767

UUGCAUAGUCACAAAAGUGA&UAAAAACUAUGAAUCACUCACACUCGAAAACUAUGCAGG

((((((((((((...((((&.....))))).)))..))))). -19.10

mir-153 ENSMUSG00000041702 2000 nt UTR 1 hits 1545

-----1-----

>ENSMUSG00000041702 hs-mir-153 1545 1552

UUGCAUAGUCACAAAAGUGA&CACAUAGCUAGGAAUCACUUACACUCACUCUAAAACUAUGCAGG

(((((((((.....(((((&.....)))))).....)))))))). -19.10

mir-153 ENSRNOG00000008531 2805 nt UTR 1 hits 1723

-----1-----

>ENSRNOG00000008531 hs-mir-153 1723 1730

UUGCAUAGUCACAAAAGUGA&CAUUUAACUAGGAAUCACUUACACUCACUCUAAAACUAUGCAGG

(((((((((.....(((((&.....)))))).....)))))))). -19.10

mir-153 SINFRUG00000125067 2000 nt UTR 1 hits 1910

-----1-----
--1---

>SINFRUG00000125067 hs-mir-153 1910 1917

UUGCAUAGUCACAAAAGUGA&UGGCCGGGCUUUUACUGGAGACGUGACUUUGGUGUCUAUGCAAG

(((((((((.....(((((&.....)))))).....)))))))). -23.40

miRNA: mir-153

Human predicted target: ENSG00000169946

Mouse predicted target: ENSMUSG00000022306

Rat predicted target: ENSRNOG00000004109

Fugu predicted target: SINFRUG00000124894

Hs Gene description: ZINC FINGER PROTEIN, MULTITYPE 2; FRIEND OF GATA2;
TRANSCRIPTION FACTOR GATA4, MODULATOR OF; ZINC FINGER PROTEIN 409.
[Source:RefSeq;Acc:NM_012082] NM_012082

mir-153 ENSG00000169946 2000 nt UTR 1 hits 957

-----1-----

>ENSG00000169946 hs-mir-153 957 964

UUGCAUAGUCACAAAAGUGA&UUCUGAUAGAAAUAUUUCUCAACAAAUGUUGUUACUAUGCAU

.(((((((((.(((((...(((&.....))))).)))))). -18.50

mir-153 ENSMUSG00000022306 3019 nt UTR 1 hits 972

-----1-----

>ENSMUSG00000022306 hs-mir-153 972 979

UUGCAUAGUCACAAAAGUGA&UUCUGAUAGAAAUAUUUCUCAACAAAUGUUGUUACUAUGCAU

.(((((((((.(((((...(((&.....))))).)))))). -18.50

mir-153 ENSRNOG00000004109 2000 nt UTR 1 hits 973

-----1-----

>ENSRNOG00000004109 hs-mir-153 973 980

UUGCAUAGUCACAAAAGUGA&UCUGAUAGAAAUAUUUCUCAACAAAUGUUGUUACUAUGCAU

.(((((((((.(((((...(((&.....))))).)))))). -18.50

mir-153 SINFRUG00000124894 2000 nt UTR 1 hits 1007

-----1-----

>SINFRUG00000124894 hs-mir-153 1007 1014

UUGCAUAGUCACAAAAGUGA&AUUAUGGGAGAAAUGUUUCUAAAAACGUUGUUGCUAUGCAU

.(((((((((.(((((...&.....))))).)))))). -18.90

miRNA: mir-181a

Human predicted target: ENSG00000144677

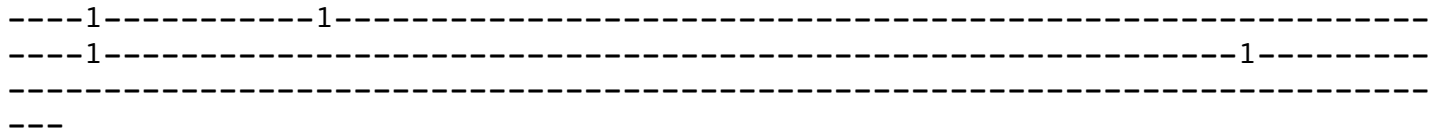
Mouse predicted target: ENSMUSG00000038995

Rat predicted target: ENSRNOG00000011393

Fugu predicted target: SINFRUG00000130306

Hs Gene description: NUCLEAR LIM INTERACTOR-INTERACTING FACTOR 1 (NLI-INTERACTING FACTOR 1) (NIF-LIKE PROTEIN) (YA22 PROTEIN) (HYA22).
[Source:SWISSPROT;Acc:O15194] NM_005808

mir-181a ENSG00000144677 5601 nt UTR 4 hits 120 406 1972 3469



>ENSG00000144677 hs-mir-181a 120 127

AACAUUCAACGCUGUCGGUGAGU&GAAAGUGAGGAUACUCCGUGCUCAGGCCACAGGGUGAAUGUG

.(((((((.(.((((((&.....)))))))).))))). -24.90

>ENSG00000144677 hs-mir-181a 406 413

AACAUUCAACGCUGUCGGUGAGU&CUCAGAAUCUCUUCUACAGGAUGAAGUGCCUUUUGAAUGUUA

(((((((((.(.((((((&.....)))))))).))))). -
19.20

>ENSG00000144677 hs-mir-181a 1972 1979

AACAUUCAACGCUGUCGGUGAGU&GUAGUCAUUAAGAACCACUGCCUUAUUGUCUUGAAUGUUG

(((((((((.(.((((((&.....)))))))).))))). -
19.40

>ENSG00000144677 hs-mir-181a 3469 3476

AACAUUCAACGCUGUCGGUGAGU&GGUGUCUGGGUAGUCAUGGAUUUCUGCUGGACAUUUGAAUGUG

.((((((((((.(.((((((&.....)))))))).))))). -17.90

mir-181a ENSMUSG00000038995 5349 nt UTR 3 hits 115 432 3351

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>ENSMUSG00000038995 hs-mir-181a 115 122

AACAUUCAACGCUGUCGGUGAGU&CAGCCCAGGAAGACUCCGUGCUCCGGGCCACAGGGUGAAUGUC

.(((((((((.(((((.((((((((&.....))))))..)))))))).)))))))). -24.30

>ENSMUSG00000038995 hs-mir-181a 432 439

AACAUUCAACGCUGUCGGUGAGU&UCAGAAUCUCUUCCUACAGGAUGAAGUGCCUUUUUGAAUGUUA

(((((((((((.(((((.((((.&.....))))))..)))))))).)))))))). -
19.11

>ENSMUSG00000038995 hs-mir-181a 3351 3358

AACAUUCAACGCUGUCGGUGAGU&GGUGUCUGGGGAGUUACAGUUUUCUGCUGGAUGUUUGAAUGUG

.(((((((((.(((((.((((((((&.....))))))..)))))))).)))))))). -18.10

mir-181a ENSRNOG00000011393 2000 nt UTR 2 hits 123 445

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>ENSRNOG00000011393 hs-mir-181a 123 130

AACAUUCAACGCUGUCGGUGAGU&GAGCCUGGGAAGACUCCACGCUUUGGGCCACAAGGUGAAUGUC

.(((((((((.(((((.((((((((&.....))))))..)))))))).)))))))). -18.10

>ENSRNOG00000011393 hs-mir-181a 445 452

AACAUUCAACGCUGUCGGUGAGU&CAGAAUCUCUUCCUACAAGAUGAAGUGCCUUUUUGAAUGUUA

(((((((((((.(((((.((((.&.....))))))..)))))))).)))))))). -
17.11

mir-181a SINFRUG00000130306 2000 nt UTR 2 hits 519 1606

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>SINFRUG00000130306 hs-mir-181a 519 526

AACAUUCAACGCUGUCGGUGAGU&UGUGACUCUUUUCUAACUGAAUGAAGUGCCUUGUGUGAAUGUUG

(((((.....(((((.....&.....)))))).....))))). - 20.11

>SINFRUG00000130306 hs-mir-181a 1606 1613

AACAUUCAACGCUGUCGGUGAGU&UUUGUUUUUUUUUCCUAGAUAAUACUGAAACAACUUGAAUGUUG

(((((.....(((((.....&.....)))))).....))))). - 19.10

miRNA: mir-181a

Human predicted target: ENSG00000164463

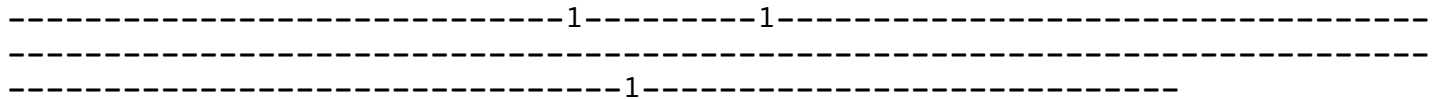
Mouse predicted target: ENSMUSG00000048249

Rat predicted target: ENSRNOG00000020769

Fugu predicted target: SINFRUG00000139862

Hs Gene description: ADULT RETINA PROTEIN. [Source:RefSeq;Acc:NM_153607] NM_153607

mir-181a ENSG00000164463 5222 nt UTR 3 hits 736 984 4518



>ENSG00000164463 hs-mir-181a 736 743

AACAUUCAACGCUGUCGGUGAGU&AAUGUUUUUUUGUCCAACUCUUUUUCAGAUUUUUUGAAUGUA

.(((((.....(((((.....&.....)))))).....))))). -18.50

>ENSG00000164463 hs-mir-181a 984 991

AACAUUCAACGCUGUCGGUGAGU&UAAGUAAAGUUUUGCACAGCUUACAUGAUACUGUAUGAAUGUA

.(((((.....(((((.....&.....)))))).....))))). -23.70

>ENSG00000164463 hs-mir-181a 4518 4525
AACAUUCAACGCUGUCGGUGAGU&UUUUUUAAUACUCAAACACAUGGGAUGUAACAAUGAAUGUC
.(((((((((((((.(.(((((((.((&.....)))))))).))))).))))). -15.80
mir-181a ENSMUSG00000048249 2000 nt UTR 2 hits 766 1016

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>ENSMUSG00000048249 hs-mir-181a 766 773
AACAUUCAACGCUGUCGGUGAGU&AUGUCUUUUUGUCCAACUCUUUUUCAGAUUUUUUGAAUGUA
.(((((((((((((.(.(((((((.((&.....)))))))).))))).))))). -17.90

>ENSMUSG00000048249 hs-mir-181a 1016 1023
AACAUUCAACGCUGUCGGUGAGU&UAAGUAAAGUUUUGCACAGCUUACAUGAUACUGUAUGAAUGUA
.(((((((((((((.(.(((((((.((&.....)))))))).))))).))))). -23.70

mir-181a ENSRNOG00000020769 3521 nt UTR 4 hits 779 1024 2120 2365
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-----1-----1-----

>ENSRNOG00000020769 hs-mir-181a 779 786
AACAUUCAACGCUGUCGGUGAGU&AAUGUCUUUUUGUCCAACUCUUUUUCAGAUUUUUUGAAUGUA
.(((((((((((((.(.(((((((.((&.....)))))))).))))).))))). -18.50

>ENSRNOG00000020769 hs-mir-181a 1024 1031
AACAUUCAACGCUGUCGGUGAGU&UAAGUAAAGUUUUGCACAGCUUACAUGAUACUGUAUGAAUGUA
.(((((((((((((.(.(((((((.((&.....)))))))).))))).))))). -23.70

>ENSRNOG00000020769 hs-mir-181a 2120 2127
AACAUUCAACGCUGUCGGUGAGU&AAUGUCUUUUUGUCCAACUCUUUUUCAGAUUUUUUGAAUGUA
.(((((((((((((.(.(((((((.((&.....)))))))).))))).))))). -18.50

>ENSRNOG00000020769 hs-mir-181a 2365 2372

AACAUUCAACGCUGUCGGUGAGU&UAAGUAAAGUUUUGCACAGCUUACAUGAUACUGUAUGAAUGUA
((((((((((((((((&.....)))))))).))))). -23.70

mir-181a SINFRUG00000139862 2000 nt UTR 3 hits 1290 1346 1618

-----1-1-----1-----

>SINFRUG00000139862 hs-mir-181a 1290 1297

AACAUUCAACGCUGUCGGUGAGU&GAGAGAGCUCCUCACAUUCAAGGUUGUUUGUAGUGAAUGUG
((((((((((((((((.....)))))))).))))). -17.81

>SINFRUG00000139862 hs-mir-181a 1346 1353

AACAUUCAACGCUGUCGGUGAGU&UUGUGAGGUUUUGUUUCAGUUGUCUGAAGAUAUUCUGAAUGUA
((((((((((((((((.....)))))))).))))). -14.00

>SINFRUG00000139862 hs-mir-181a 1618 1625

AACAUUCAACGCUGUCGGUGAGU&AAGUAAGGUUUUGCACAGCUUACCUGACGCCGUAUUGAAUGUA
((((((((((((((((&.....)))))))).))))). -27.00

miRNA: mir-184

Human predicted target: ENSG00000129244

Mouse predicted target: ENSMUSG00000041329

Rat predicted target: ENSRNOG00000011227

Fugu predicted target: SINFRUG00000133968

Hs Gene description: SODIUM/POTASSIUM-TRANSPORTING ATPASE BETA-2 CHAIN
(SODIUM/POTASSIUM- DEPENDENT ATPASE BETA-2 SUBUNIT).
[Source:SWISSPROT;Acc:P14415] NM_001678

mir-184 ENSG00000129244 3485 nt UTR 1 hits 1266

-----1-----

>ENSG00000129244 hs-mir-184 1266 1273

UGGACGGAGAACUGAUAAGGGU&CCAGGGAGCUCUGGGGGAGGGGCGGCCAUUCUGGCUCCGUCCC

.((((((((.....((.....((&.....)))))))). -24.20

mir-184 ENSMUSG00000041329 3506 nt UTR 1 hits 655

-----1-----

>ENSMUSG00000041329 hs-mir-184 655 662

UGGACGGAGAACUGAUAAGGGU&UUUGUAGCUCAGUACAAGUUGGUUCUGUGGCCUUUUCGUCU

.((((((((.....((.....((&.....)))))))). -22.10

mir-184 ENSRNOG00000011227 2434 nt UTR 1 hits 660

-----1-----

>ENSRNOG00000011227 hs-mir-184 660 667

UGGACGGAGAACUGAUAAGGGU&UUUGUAGCUCACUACAGGUUGGUUCUGUGGCCUUUUCGUCU

.((((((((.....((.....((&.....)))))))). -22.10

mir-184 SINFRUG00000133968 2000 nt UTR 1 hits 1652

-----1-----

>SINFRUG00000133968 hs-mir-184 1652 1659

UGGACGGAGAACUGAUAAGGGU&UGGAGUGCUCGCAUCGGUGUCUGGCCUAAUCCUGCUCCGUCCC

.((((((((.....((.....((&.....)))))))). -28.73

miRNA: mir-190

Human predicted target: ENSG00000109046

Mouse predicted target: ENSMUSG00000017677

Rat predicted target: ENSRNOG00000012929

Fugu predicted target: SINFRUG00000137329

Hs Gene description: WD REPEAT AND SOCS BOX CONTAINING PROTEIN 1 (WSB-1) (SOCS BOX- CONTAINING WD PROTEIN SWIP-1). [Source:SWISSPROT;Acc:Q9Y6I7] NM_134265

mir-190 ENSG00000109046 3264 nt UTR 2 hits 187 2260

-----1-----
-----1-----

>ENSG00000109046 hs-mir-190 187 194

UGAUAUGUUUGAUAUAUAGGU&AAAAUAUUUUUAUAGACAAUAGAAGUAUUUCUGAACAUUCAAA

((((((((((((..((((((.....&.....)))))).....)))))))). -16.40

>ENSG00000109046 hs-mir-190 2260 2267

UGAUAUGUUUGAUAUAUAGGU&UUCAUAUCAUUGCAUUAUUUUUGCUUCCACACCAACAUAUCC

.((((((((((((((.....&.....)))))).....)))))))). -13.51

mir-190 ENSMUSG00000017677 2000 nt UTR 1 hits 191

-----1-----

>ENSMUSG00000017677 hs-mir-190 191 198

UGAUAUGUUUGAUAUAUAGGU&AAAGCAUUAUUUAUACACCAUAGAAUAUUUCUGAACAUUCAU

((((((((((((((..((((((.....&.....)))))).....)))))))). -16.30

mir-190 ENSRNOG00000012929 2767 nt UTR 1 hits 83

---1-----

>ENSRNOG00000012929 hs-mir-190 83 90

UGAUAUGUUUGAUAUAUAGGU&GCAUUAUUUAUACACCAUUGGAGAAUAUUUCUGAACAUUCAU

((((((((((((..((((((.....&.....))))))..)))))))). -16.20

mir-190 SINFRUG00000137329 2000 nt UTR 1 hits 1209

-----1-----

>SINFRUG00000137329 hs-mir-190 1209 1216

UGAUAUGUUUGAUAUAUAGGU&CGUAUACGACGUGUAUAUAGUUUAAUUUGUAUAAACAUAUCAC

((((((((((((((((..((((((.....&.....))))))..)))))))). -18.20

miRNA: mir-194

Human predicted target: ENSG00000055609

Mouse predicted target: ENSMUSG00000028935

Rat predicted target: ENSRNOG00000007997

Fugu predicted target: SINFRUG00000148483

Hs Gene description: MYELOID/LYMPHOID OR MIXED-LINEAGE LEUKEMIA 3; ALR-LIKE PROTEIN. [Source:RefSeq;Acc:NM_021230] NM_021230

mir-194 ENSG00000055609 2248 nt UTR 2 hits 722 747

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>ENSG00000055609 hs-mir-194 722 729

UGUAACAGCAACUCCAUGUGGA&UUUUUAAAUAAGUUAGAAGAAAGCCAAGCUGCUGUACC

.((((((((((((((..((((((.....&.....))))))..)))))))). -20.30

>ENSG00000055609 hs-mir-194 747 754

UGUAACAGCAACUCCAUGUGGA&CAAGCUGCUGCUGUACCUGCAGAACUAACAAACCCUGUACU

.((((((((((((((..((((((.....&.....))))))..)))))))). -14.50

mir-194 ENSMUSG00000028935 2001 nt UTR 2 hits 715 740

-----11-----

>ENSMUSG00000028935 hs-mir-194 715 722

UGUAACAGCAACUCCAUGUGGA&UUUUAUUUUUUUUUAGAAGAAAGCCAAGCUGCUGCUGUUACC

.((((((((((.(.....((.&.....)))).....)))))))). -20.30

>ENSMUSG00000028935 hs-mir-194 740 747

UGUAACAGCAACUCCAUGUGGA&CAAGCUGCUGCUGUUACCUGCAGAACUAACAAACCCUGUUACU

.((((((((.....((.(.&.....)))).....)))))))). -14.50

mir-194 ENSRNOG00000007997 2000 nt UTR 2 hits 717 742

-----11-----

>ENSRNOG00000007997 hs-mir-194 717 724

UGUAACAGCAACUCCAUGUGGA&UUUUAUUUUUUUUUAGAAGAAAGCCAAGCUGCUGCUGUUACC

.((((((((((.(.....((.&.....)))).....)))))))). -20.30

>ENSRNOG00000007997 hs-mir-194 742 749

UGUAACAGCAACUCCAUGUGGA&CAAGCUGCUGCUGUUACCUGCAGAACUAACAAACCCUGUUACU

.((((((((.....((.(.&.....)))).....)))))))). -14.50

mir-194 SINFRUG00000148483 727 nt UTR 1 hits 632

-----1-----

>SINFRUG00000148483 hs-mir-194 632 639

UGUAACAGCAACUCCAUGUGGA&CGUUGCUAUUGUUUUUGGAGAUCGAGGAAGACAUGCUGUUACU

.((((((((((.(.....((.&.....)))).....)))))))). -21.94

miRNA: mir-194

Human predicted target: ENSG00000123159

Mouse predicted target: ENSMUSG00000019433

Rat predicted target: ENSRNOG00000003864

Fugu predicted target: SINFRUG00000141873

Hs Gene description: RGS19-INTERACTING PROTEIN 1 (GAIP C-TERMINUS INTERACTING PROTEIN GIPC) (RGS-GAIP INTERACTING PROTEIN) (TAX INTERACTION PROTEIN 2) (TIP-2). [Source:SWISSPROT;Acc:O14908] NM_005716

mir-194 ENSG00000123159 2654 nt UTR 1 hits 481

-----1-----

>ENSG00000123159 hs-mir-194 481 488

UGUAACAGCAACUCCAUGUGGA&CACCCCUCCUGAGAGGAGCCCCUCCUGUGGAGCCUGUUACC

.((((((((...(((((((.&.....)))))).)))))). -24.10

mir-194 ENSMUSG00000019433 2521 nt UTR 2 hits 623 1014

-----1-----1-----

>ENSMUSG00000019433 hs-mir-194 623 630

UGUAACAGCAACUCCAUGUGGA&AUCUCCACCUGAGGGGAGCCUCUCAGUUGGGGUCUGUUACC

.((((((((...(((((((.&.....)))))).)))))). -21.10

>ENSMUSG00000019433 hs-mir-194 1014 1021

UGUAACAGCAACUCCAUGUGGA&GAGAGCCCCGUGUGUGGCAGCAAGGCCUGUUGCCCUGUUACC

.((((((((((((((((...(((((((.&.....)))))).)))))). -19.80

mir-194 ENSRNOG00000003864 2391 nt UTR 2 hits 562 960

-----1-----1-----

>ENSRNOG00000003864 hs-mir-194 562 569

UGUAACAGCAACUCCAUGUGGA&CUUCUCCCACCUGACAGGAGCUCCUCAGUUGGGUUCUGUUACC
 .(((((((((((.((((((..((((&.....)))))).)..)))))))))))). -22.70

>ENSRNOG00000003864 hs-mir-194 960 967

UGUAACAGCAACUCCAUGUGGA&CACCUAACCCUCUGUGGCAGCAAAGCCUGUUGCGCUGUUACAG
 ((((((((((((((.((((((..((((&.....)))))).)..)))))))))))). -20.80

mir-194 SINFRUG00000141873 2000 nt UTR 1 hits 267

-----1-----

>SINFRUG00000141873 hs-mir-194 267 274

UGUAACAGCAACUCCAUGUGGA&AGGUGGUUCCGGUGCGUGCCUGAACCUCUCAUCUUGCUGUUACAG
 ((((((((((((((.....(((((&.....)))))).)..)))))))))))). -22.30

miRNA: mir-194

Human predicted target: ENSG00000175220

Mouse predicted target: ENSMUSG00000027247

Rat predicted target: ENSRNOG00000016610

Fugu predicted target: SINFRUG00000138340

Hs Gene description: RHO-GTPASE-ACTIVATING PROTEIN 1 (GTPASE-ACTIVATING
 PROTEIN RHOOGAP) (RHO-RELATED SMALL GTPASE PROTEIN ACTIVATOR) (CDC42
 GTPASE-ACTIVATING PROTEIN) (P50-RHOGAP). [Source:SWISSPROT;Acc:Q07960]
 NM_004308

mir-194 ENSG00000175220 3957 nt UTR 2 hits 165 866

-----1-----1-----

>ENSG00000175220 hs-mir-194 165 172

UGUAACAGCAACUCCAUGUGGA&UCUGUCCAGCCCGCCUCACGGCCCUGGCGGCCUCGCUGUUACC
.((((((((((..((((((((.&.....))))))....)))).).....)))))))). -20.80

>ENSG00000175220 hs-mir-194 866 873

UGUAACAGCAACUCCAUGUGGA&GCAGAUCAUCAGCCUUCAUGUUCUUGUGGACCUGUCUGUUACGG
((((((((((((..((((((((.&.....))))))....)))).).....)))))))). -22.20

mir-194 ENSMUSG00000027247 3426 nt UTR 1 hits 190

-----1-----

>ENSMUSG00000027247 hs-mir-194 190 197

UGUAACAGCAACUCCAUGUGGA&CUCUGCCCGUCCACCUUACCGGCCUGGAGGCCUCUGUUACC
.((((((((((((..((((((((.&.....))))))....)))).).....)))))))). -22.50

mir-194 ENSRNOG00000016610 2000 nt UTR 1 hits 192

-----1-----

>ENSRNOG00000016610 hs-mir-194 192 199

UGUAACAGCAACUCCAUGUGGA&CCCUCUGUCCAUCCACCUUACCGGCCUGGAGGCCUCUGUUACC
.((((((((((((..((((((((.&.....))))))....)))).).....)))))))). -21.73

mir-194 SINFRUG00000138340 2000 nt UTR 1 hits 833

-----1-----

>SINFRUG00000138340 hs-mir-194 833 840

UGUAACAGCAACUCCAUGUGGA&GCUGUAGCUGAAGUAGCUGUAGAAUAGGAGCUGAGCUGUUACAC
((((((((((((..((((((((.&.....))))))....)))).).....)))))))). -22.90

miRNA: mir-199a

Human predicted target: ENSG00000116273

Mouse predicted target: ENSMUSG00000047777

Rat predicted target: ENSRNOG00000009046

Fugu predicted target: SINFRUG00000155548

Hs Gene description: NM_153812

mir-199a ENSG00000116273 4360 nt UTR 1 hits 1252

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>ENSG00000116273 hs-mir-199a 1252 1259

CCCAGUGUUCAGACUACCUGUUC&UGGAAGAACUCUGCUCGAGGGCAGGGUGCCCUGGAACACUGGU

.((((((((((((.....(((((((&.....)))))))).)))))). -29.00

mir-199a ENSMUSG00000047777 3921 nt UTR 2 hits 684 918

-----1-----1-----

>ENSMUSG00000047777 hs-mir-199a 684 691

CCCAGUGUUCAGACUACCUGUUC&UCCCCACAAUACAGCCCAAAGUAUUUGCCACUGUUACACUGGGU

(((((((((.....(((((((&.....)))))))).)))))). -21.00

>ENSMUSG00000047777 hs-mir-199a 918 925

CCCAGUGUUCAGACUACCUGUUC&GCCUGGUCUGAGUGAGGGCUGGCUCAGCUCUGGACACUGGU

.((((((((((((.....(((((((&.....)))))))).)))))). -25.50

mir-199a ENSRNOG00000009046 3640 nt UTR 2 hits 821 2347

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>ENSRNOG00000009046 hs-mir-199a 821 828
CCCAGUGUUCAGACUACCUGUUC&GUCCUGAUCUGGGUGAGGGCUGGCUCAGCUCUGGACACUGGU
.(((((((((((((((((.(.((.(.((((&.....))))).))...))...)))))))). -25.50

>ENSRNOG00000009046 hs-mir-199a 2347 2354
CCCAGUGUUCAGACUACCUGUUC&GUCCUGAUCUGGGUGAGGGCUGGCUCAGCUCUGGACACUGGU
.(((((((((((((((((((((.(.((.(.((((&.....))))).))...))...)))))))). -25.50

mir-199a SINFRUG00000155548 2000 nt UTR 1 hits 296

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>SINFRUG00000155548 hs-mir-199a 296 303
CCCAGUGUUCAGACUACCUGUUC&GUAGCGGCUAACUGUUGGACUCGGUGUCUUGUGAACACUGGA
.(((((((((((((((((((((.(.((.(.((((&.....))))).))...))...)))))))). -28.80

miRNA: mir-205

Human predicted target: ENSG00000134686

Mouse predicted target: ENSMUSG00000028796

Rat predicted target: ENSRNOG00000006004

Fugu predicted target: SINFRUG00000121521

Hs Gene description: POLYHOMEOTIC 2-LIKE; EARLY DEVELOPMENT REGULATOR 2-LIKE. [Source:RefSeq;Acc:NM_004427] NM_004427

mir-205 ENSG00000134686 3239 nt UTR 1 hits 1184

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>ENSG00000134686 hs-mir-205 1184 1191
UCCUUCAUCCACCGGAGUCUG&CUAUUCCCCACCCACACCCCCAGGCAGGGUUGGAAAUGAAGGAC

((((((((((((((((...(((((&.....))))))..)))).))..)))). -27.10

mir-205 ENSMUSG00000028796 3220 nt UTR 1 hits 1164

-----1-----

>ENSMUSG00000028796 hs-mir-205 1164 1171

UCCUUCAUCCACCGGAGUCUG&UAACCCCUUCCCAUACCUCAGGCAGGGUUGGAAAUGAAGGAC

((((((((((((((((...(((((&.....))))))..)))).))..)))). -27.10

mir-205 ENSRNOG00000006004 3046 nt UTR 3 hits 993 1365 1960

-----1-----1-----
-----1-----

>ENSRNOG00000006004 hs-mir-205 993 1000

UCCUUCAUCCACCGGAGUCUG&UGCCCUUUUCCCAUACCUCAGGCAGGGUUGGAAAUGAAGGAC

((((((((((((((((...(((((&.....))))))..)))).))..)))). -27.10

>ENSRNOG00000006004 hs-mir-205 1365 1372

UCCUUCAUCCACCGGAGUCUG&UGCCCUUUUCCCAUACCUCAGGCAGGGUUGGAAAUGAAGGAC

((((((((((((((((...(((((&.....))))))..)))).))..)))). -27.10

>ENSRNOG00000006004 hs-mir-205 1960 1967

UCCUUCAUCCACCGGAGUCUG&CAGCUGCUAGCUGGGAUUGGCUGGCUGCCUCGUGUAUGAAGGU

.((((((((((..(((..(((..&.....))))..)))).))..)))). -21.70

mir-205 SINFRUG00000121521 2000 nt UTR 1 hits 310

-----1-----

>SINFRUG00000121521 hs-mir-205 310 317

UCCUUCAUCCACCGGAGUCUG&GAUUUUGAGAGAGCUGCUGUCAACUCCUGGUUUGAUGAAGGU

.((((((((((..(((..(((..&.....))))..)))).))..)))). -26.90

miRNA: mir-214

Human predicted target: ENSG00000140332

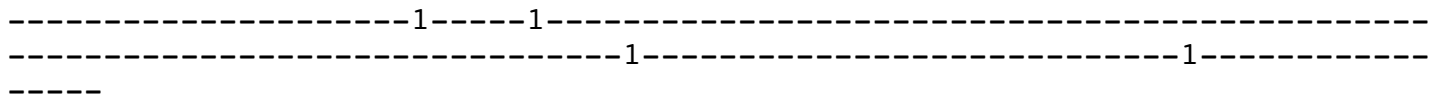
Mouse predicted target: ENSMUSG00000032280

Rat predicted target: ENSRNOG00000013013

Fugu predicted target: SINFRUG00000141146

Hs Gene description: TRANSDUCIN-LIKE ENHANCER PROTEIN 3 (ESG3).
[Source:SWISSPROT;Acc:Q04726] NM_005078

mir-214 ENSG00000140332 3822 nt UTR 4 hits 529 694 2661 3398



>ENSG00000140332 hs-mir-214 529 536

ACAGCAGGCACAGACAGGCAG&CCCUUCCCACCGGAAACUCUGAGUGUGUAUUUCGCCUGCUGUA

(((((((((((((((..((...(((&.....))))).))..)).....)))))))). -26.00

>ENSG00000140332 hs-mir-214 694 701

ACAGCAGGCACAGACAGGCAG&AGUGUGGAAAAGGCAACCAGGUUGGCCGUAAGGUGCCUGCUGG

.((((((((((((((..((..(((((..&.....))))).))..)).....)))))))). -33.00

>ENSG00000140332 hs-mir-214 2661 2668

ACAGCAGGCACAGACAGGCAG&UAUUUUGUCAAAAGUCAUUCUCAGCACAAACAAUUGCCUGCUGUC

((((((((((((((((..((..(((((..&.....))))).))..)).....)))))))). -23.75

>ENSG00000140332 hs-mir-214 3398 3405

ACAGCAGGCACAGACAGGCAG&GCACUGAGCCUCUCUGCAGUGCUUCCUCCUCCUCCUGCUGC

.((((((((((((((..((..(((((..&.....))))).))..)).....)))))))). -25.30

mir-214 ENSMUSG00000032280 3765 nt UTR 3 hits 490 1368 2613

-----1-----1-----
-----1-----

>ENSMUSG00000032280 hs-mir-214 490 497
ACAGCAGGCACAGACAGGCAG&GAACCCCAUCCCACCAUUGCUCGCCGUGGAUUUUGCCUGCUGUA
((((((((((.....(((((((&.....)))))).)).....)))))))). -28.20

>ENSMUSG00000032280 hs-mir-214 1368 1375
ACAGCAGGCACAGACAGGCAG&UGUUUUUAUUAAGAAAAGCUAAAGACCGUGUGAGCCCUGCUGG
((((((((((.....(((((((&.....)))))).)).....)))))))). -23.60

>ENSMUSG00000032280 hs-mir-214 2613 2620
ACAGCAGGCACAGACAGGCAG&UAAUGUAUCAAGGUCACUGUCGGUCACACCGUAACCUGCUGUC
((((((((((.....(((((((&.....)))))).)).....)))))))). -25.30

mir-214 ENSRNOG00000013013 3661 nt UTR 2 hits 475 1329

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-----1-----

>ENSRNOG00000013013 hs-mir-214 475 482
ACAGCAGGCACAGACAGGCAG&AGGCCCUUCCCACCAGUGCUCGCCGUGUAUUUUGCCUGCUGUA
((((((((((.....(((((((&.....)))))).)).....)))))))). -29.90

>ENSRNOG00000013013 hs-mir-214 1329 1336
ACAGCAGGCACAGACAGGCAG&UGUUUUUAUUAAGAAAAGCUAAAGACCGUGUGAGCCCUGCUGG
((((((((((.....(((((((&.....)))))).)).....)))))))). -23.60

mir-214 SINFRUG00000141146 2000 nt UTR 1 hits 545

-----1-----

>SINFRUG00000141146 hs-mir-214 545 552
ACAGCAGGCACAGACAGGCAG&CUUAUUUUUAUUAAGUGUUAAAAACCGUCUGAAUGCCUGCUGUG

>ENSMUSG00000035900 hs-mir-218 711 718
UUGUGCUUGAUCUAACCAUGU&UCCUGUGAGGGCCCAGACUGGCGUAGUGUCGGCAAAGCACAC
.((((((((.....((((((&.....))))).))..))..)))). -17.70

>ENSMUSG00000035900 hs-mir-218 1359 1366
UUGUGCUUGAUCUAACCAUGU&CUGGGGGUGGGAAGGGCUUGCCAGGCAACCAGAUCAAGCACAC
.((((((((((((.....((((((&.....))))).))..))..)))). -24.25

mir-218 ENSRNOG00000016951 2000 nt UTR 1 hits 441
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>ENSRNOG00000016951 hs-mir-218 441 448
UUGUGCUUGAUCUAACCAUGU&CUAUUCUGUAAAGAUUGGGAAGACAGUCAUGAGUCAAGCACAGU
((((((((((((.....((((((&.....))))).))..))..)))). -21.70

mir-218 ENSRNOG00000016968 2000 nt UTR 3 hits 271 678 1361
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>ENSRNOG00000016968 hs-mir-218 271 278
UUGUGCUUGAUCUAACCAUGU&GAUGGCACACAAGACACUGGACCUCAGGCCUGCUAAGCACAGC
((((((((.....((((((&.....))))).))..))..)))). -15.40

>ENSRNOG00000016968 hs-mir-218 678 685
UUGUGCUUGAUCUAACCAUGU&GUGUCCGGCGAGGGUCCAGAAUGGCGCGUCGGCAAAGCACAC
.((((((((.....((((((&.....))))).))..))..)))). -15.60

>ENSRNOG00000016968 hs-mir-218 1361 1368
UUGUGCUUGAUCUAACCAUGU&CUGGGGGUGGGAAGGGCUCGCCAGGCAACCAGAUCAAGCACAC
.((((((((((((.....((((((&.....))))).))..))..)))). -24.25

mir-218 SINFRUG00000149385 2000 nt UTR 2 hits 916 1859

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1-----

>SINFRUG00000149385 hs-mir-218 916 923
UUGUGCUUGAUCUAACCAUGU&ACAGUUAGCCAGCGCAGGUCACAUCCGGCUGGUCCAAGCACAGC
((((((((((..(((..((((((&.....))))..))..))..)))))))). -22.50

>SINFRUG00000149385 hs-mir-218 1859 1866
UUGUGCUUGAUCUAACCAUGU&UUGAAGAACGGCUCCGAAGAGCUGCAAUCAGAACAAAGCACAGA
((((((((((..(((.....&.....))))..)))))))). -16.10

miRNA: mir-218

Human predicted target: ENSG00000119547

Mouse predicted target: ENSMUSG00000045991

Rat predicted target: ENSRNOG00000018299

Fugu predicted target: SINFRUG00000154314

Hs Gene description: ONE CUT DOMAIN FAMILY MEMBER 2 (ONECUT-2
TRANSCRIPTION FACTOR) (OC-2). [Source:SWISSPROT;Acc:O95948] NM_004852

mir-218 ENSG00000119547 2109 nt UTR 3 hits 116 768 876

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>ENSG00000119547 hs-mir-218 116 123
UUGUGCUUGAUCUAACCAUGU&GGAUUCCUAGCUGGGGCCCUUCACUGGUGAUUUGAAAGCACAAU
((((((((((.....(((..((((((&.....))))..))))..)))))))). -19.22

>ENSG00000119547 hs-mir-218 768 775
UUGUGCUUGAUCUAACCAUGU&AAAAAACCAGUCAGUUCACUUGCGCUCAAAGUAUCAAGCACAAAC

((((((((((((((.....&.....))))))))))))). -20.50

>ENSG00000119547 hs-mir-218 876 883

UUGUGCUUGAUCUAACCAUGU&UGAAGUCAUUAGGGAAUUGAUGAGAAUAUGGCUUCAAGCACAU

.((((((((((((.....(((((&.....)))))))).)))))))). -22.60

mir-218 ENSMUSG00000045991 2000 nt UTR 3 hits 175 824 948

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>ENSMUSG00000045991 hs-mir-218 175 182

UUGUGCUUGAUCUAACCAUGU&AGAUUCUUAGCUGGGGCCCUUCACUGGUGACUUGAAAGCACAAC

((((((((((.....(((((&.....)))))))).)))))))). -19.22

>ENSMUSG00000045991 hs-mir-218 824 831

UUGUGCUUGAUCUAACCAUGU&CAAAAAAAGUCAAUUCACUUGAGCUCAAAGUAUCAAGCACAAC

((((((((((((((.....&.....))))))))))))). -20.50

>ENSMUSG00000045991 hs-mir-218 948 955

UUGUGCUUGAUCUAACCAUGU&UGAAGUCAUUAGGGAAUUAUUGGGAAUAUGGCUUCAAGCACAU

.((((((((((((.....(((((&.....)))))))).)))))))). -22.60

mir-218 ENSRNOG00000018299 2000 nt UTR 3 hits 157 806 930

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>ENSRNOG00000018299 hs-mir-218 157 164

UUGUGCUUGAUCUAACCAUGU&AGAUUCUUAACUGGGGCCCUUCACUGGUGACUUGAAAGCACAAC

((((((((((.....(((((&.....)))))))).)))))))). -19.22

>ENSRNOG00000018299 hs-mir-218 806 813

UUGUGCUUGAUCUAACCAUGU&AAAAAAAAGUCAAUUCACUUGAGCUCAAAGUAUCAAGCACAAC

((((((((((((((.....&.....))))))))))))). -20.50

>ENSRNOG00000018299 hs-mir-218 930 937
UUGUGCUUGAUCUAACCAUGU&UGAAGUCAUUAGGGAAUUAUUGGGAAUAUGGCUUCAAGCACAC
.((((((((((.....(((((&.....))))))..)))))))). -22.50

mir-218 SINFRUG00000154314 2000 nt UTR 2 hits 791 928

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>SINFRUG00000154314 hs-mir-218 791 798
UUGUGCUUGAUCUAACCAUGU&UGAUUUGACUCUUUAAAGAUGAAUGCUAAUGAUGCAAGCACAAA
((((((((((((.....((..&.....)))).....)))))))). -19.70

>SINFRUG00000154314 hs-mir-218 928 935
UUGUGCUUGAUCUAACCAUGU&GGUGCAUCUAUACAACAAAUGUGAGCACAAUUUUGAAGCACAU
.((((((((((.....(((((&.....)))).....)))))))). -13.34

miRNA: mir-218

Human predicted target: ENSG00000149582

Mouse predicted target: ENSMUSG00000002032

Rat predicted target: ENSRNOG00000014218

Fugu predicted target: SINFRUG00000152666

Hs Gene description: NM_032780

mir-218 ENSG00000149582 3254 nt UTR 2 hits 550 801

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>ENSG00000149582 hs-mir-218 550 557
UUGUGCUUGAUCUAACCAUGU&CACAGAAACCAACCCUGACCCAGCGGUACCGGCCAAGCACAAA

((((((((((((..(..(((..(&.....))))))..)))..)))..))).. -21.80

>ENSG00000149582 hs-mir-218 801 808

UUGUGCUUGAUCUAACCAUGU&AGCUAUGCAUCAUUUCCUACGGCGUUAGCACUUUAAGCACAU

.((((((((((((((..(..(((..(&.....))))))..)))..)))..))).. -19.90

mir-218 ENSMUSG00000002032 3196 nt UTR 2 hits 547 784

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>ENSMUSG00000002032 hs-mir-218 547 554

UUGUGCUUGAUCUAACCAUGU&GCUCAGGAACCAGCCCUUGCCCAGGGACCUGGCCAAGCACAAA

((((((((((((((((..(..(((..(&.....))))))..)))..)))..))).. -20.90

>ENSMUSG00000002032 hs-mir-218 784 791

UUGUGCUUGAUCUAACCAUGU&AGCUCUGCAUCGUUUUGUACAAGUGUCUGCAUUUUAAGCACAU

.((((((((((((((((..(..(((..(&.....))))))..)))..)))..))).. -16.45

mir-218 ENSRNOG00000014218 3122 nt UTR 4 hits 494 731 1611 1848

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1-----

>ENSRNOG00000014218 hs-mir-218 494 501

UUGUGCUUGAUCUAACCAUGU&GCUCAGGAACCAGCCCUACCCAGGGACCUGGCCAAGCACAAA

((((((((((((((((((..(..(((..(&.....))))))..)))..)))..))).. -20.90

>ENSRNOG00000014218 hs-mir-218 731 738

UUGUGCUUGAUCUAACCAUGU&UAGCAAUGUAUCAUUUUGUACAGUGUCCUCAUAUUAAGCACAU

.((((((((((((((((.....&.....))))))..)))..))).. -16.30

>ENSRNOG00000014218 hs-mir-218 1611 1618

UUGUGCUUGAUCUAACCAUGU&GCUCAGGAACCAGCCCUACCCAGGGACCUGGCCAAGCACAAA

((((((((((((((((((..(..(((..(&.....))))))..)))..)))..))).. -20.90

>ENSRNOG00000014218 hs-mir-218 1848 1855
UUGUGCUUGAUCUAACCAUGU&UAGCAAUGUAUCAUUUUGUACAGUGUCCUCAUAUUAAGCACAU
.((((((((((.....&.....))))))))). -16.30

mir-218 SINFRUG00000152666 2000 nt UTR 2 hits 1717 1867
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1-----

>SINFRUG00000152666 hs-mir-218 1717 1724
UUGUGCUUGAUCUAACCAUGU&UGUUAGGUGGCUUUUGUGGCUUCAGUUUUGACUGGAAGCACAAU
((((((((((.....&.....))))))))). -15.99

>SINFRUG00000152666 hs-mir-218 1867 1874
UUGUGCUUGAUCUAACCAUGU&UGUGGAAAUAUAUUUUUCCUCAUAACUAAAAAAAAAGCACAU
.((((((((.....((((((.....&.....)))))))))). -13.60

miRNA: mir-218

Human predicted target: ENSG00000162105

Mouse predicted target: ENSMUSG00000037541

Rat predicted target: ENSRNOG00000020806

Fugu predicted target: SINFRUG00000153210

Hs Gene description: SH3 AND MULTIPLE ANKYRIN REPEAT DOMAINS PROTEIN 2 (SHANK2). [Source:SWISSPROT;Acc:Q9UPX8] NM_012309

mir-218 ENSG00000162105 7013 nt UTR 3 hits 764 1713 6238
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>ENSG00000162105 hs-mir-218 764 771

UUGUGCUUGAUCUAACCAUGU&AAGGUGGCCAAGCAGAUGUCACAUGGAGUUAGUCAAAAGCACAAA
((((((((((.((((((((((&.....)))))))).)))))). -24.70

>ENSG00000162105 hs-mir-218 1713 1720

UUGUGCUUGAUCUAACCAUGU&UACUGCAAGUUAAAUAGUUGUACAGAUAGUUUAUAAGCACAAU
((((((((((.((((((((((&.....)))))))).)))))). -15.90

>ENSG00000162105 hs-mir-218 6238 6245

UUGUGCUUGAUCUAACCAUGU&ACACAUAGCCCCUGCAGCCCUGCAGAGGUGGCCACAAGCACAAAG
((((((((((.((((((((((&.....)))))))).)))))). -22.00

mir-218 ENSMUSG00000037541 2000 nt UTR 2 hits 675 1395

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>ENSMUSG00000037541 hs-mir-218 675 682

UUGUGCUUGAUCUAACCAUGU&AGGGUGGCCAAAUGAAGUCACACGGAGUUAGUCAAAAGCACAAA
((((((((((.((((((((((&.....)))))))).)))))). -22.30

>ENSMUSG00000037541 hs-mir-218 1395 1402

UUGUGCUUGAUCUAACCAUGU&UACUGCAAGUUAAAUAUGUGUACAGAUAGUUCAUAAGCACAAU
((((((((((.((((((((((&.....)))))))).)))))). -18.40

mir-218 ENSRNOG00000020806 2000 nt UTR 3 hits 687 755 1603

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>ENSRNOG00000020806 hs-mir-218 687 694

UUGUGCUUGAUCUAACCAUGU&AGGGUGGCCAAACUGAAGUCACACGGAGUUAGUCAAAAGCACAAA
((((((((((.((((((((((&.....)))))))).)))))). -22.30

>ENSRNOG00000020806 hs-mir-218 755 762

UUGUGCUUGAUCUAACCAUGU&GCCUGGCCAUAGAGCCAGCCAAUGUGUGGCCUGCCCAAGCACAC

.((((((((((...((...(((...(&.....))))))..)))). -19.70

>ENSRNOG00000020806 hs-mir-218 1603 1610

UUGUGCUUGAUCUAACCAUGU&UACUGCAAGUUAAAUACGUGUACAGAUAGUUCAUAAGCACAAU

((((((((((((...(((...(((...(&.....))))))..)))). -19.10

mir-218 SINFRUG00000153210 2000 nt UTR 1 hits 1360

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>SINFRUG00000153210 hs-mir-218 1360 1367

UUGUGCUUGAUCUAACCAUGU&AAGAGGGUCACUUUAAGCCCAGUAACAUGCAUCUCAAGCACAAAG

((((((((((((...(((...(((...(&.....))))))..)))). -21.60

miRNA: mir-219

Human predicted target: ENSG00000070610

Mouse predicted target: ENSMUSG00000028467

Rat predicted target: ENSRNOG00000016364

Fugu predicted target: SINFRUG00000130115

Hs Gene description: BILE ACID BETA-GLUCOSIDASE.
[Source:RefSeq;Acc:NM_020944]

mir-219 ENSG00000070610 2000 nt UTR 1 hits 97

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>ENSG00000070610 hs-mir-219 97 104

UGAUUGUCCAAACGCAAUUCU&UCCCCUCUGAACCUCUGCAACCCUGAGCCAUCAGGACAAUCAU

((((((((((((...(((...(((...(&.....))))))..)))). -19.00

mir-219 ENSMUSG00000028467 2260 nt UTR 1 hits 81

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>ENSMUSG00000028467 hs-mir-219 81 88

UGAUUGUCCAAACGCAAUUCU&UCCUCCCACAAGUCCUGCAGCCCUGAGCCAAUAGGACAAUCGC

(((((((((.....((.....&.....)).....)))))))). -18.20

mir-219 ENSRNOG00000016364 2288 nt UTR 1 hits 124

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>ENSRNOG00000016364 hs-mir-219 124 131

UGAUUGUCCAAACGCAAUUCU&UCCUCCCACAAGUCCUGCAGCCCUGAGCCAAUAGGACAAUCAU

(((((((((.....((.....&.....)).....)))))))). -19.00

mir-219 SINFRUG00000130115 2000 nt UTR 1 hits 1097

-----1-----

>SINFRUG00000130115 hs-mir-219 1097 1104

UGAUUGUCCAAACGCAAUUCU&UAUCAACUUCUCACUUAUGUGUUUUUAUAAAAAUUGACAAUCAU

(((((((((.....((.....&.....)).....)))))))). -17.50

miRNA: mir-219

Human predicted target: ENSG00000171656

Mouse predicted target: ENSMUSG00000013089

Rat predicted target: ENSRNOG00000001785

Fugu predicted target: SINFRUG00000148138

Hs Gene description: ETS-RELATED PROTEIN ERM (ETS TRANSLOCATION VARIANT 5). [Source:SWISSPROT;Acc:P41161] NM_004454

mir-219 ENSG00000171656 4318 nt UTR 1 hits 343

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>ENSG00000171656 hs-mir-219 343 350

UGAUUGUCCAAACGCAAUUCU&UCAGGUUAGUACCCGCAAACGGGACAUAGUAUGUGACAAUCU

.(((((((((((((.....(((&.....))))).)))).)))). -17.20

mir-219 ENSMUSG00000013089 2000 nt UTR 1 hits 323

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>ENSMUSG00000013089 hs-mir-219 323 330

UGAUUGUCCAAACGCAAUUCU&CAGGGUUAGCGCCCAUGAAAGGGGACCGAGUGUAUGACAAUCU

.(((((((((((((.....(((&.....))))).)))).)))). -16.50

mir-219 ENSRNOG00000001785 3995 nt UTR 2 hits 297 2125

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>ENSRNOG00000001785 hs-mir-219 297 304

UGAUUGUCCAAACGCAAUUCU&UUCAGGUUAGCGCCCAUGAGAGGGGACCGAGUUAUGACAAUCU

.(((((((((((((.....(((&.....))))).)))).)))). -16.10

>ENSRNOG00000001785 hs-mir-219 2125 2132

UGAUUGUCCAAACGCAAUUCU&UUCAGGUUAGCGCCCAUGAGAGGGGACCGAGUUAUGACAAUCU

.(((((((((((((.....(((&.....))))).)))).)))). -16.10

mir-219 SINFRUG00000148138 2000 nt UTR 2 hits 276 1660

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>SINFRUG00000148138 hs-mir-219 276 283
UGAUUGUCCAAACGCAAUUCU&UUAAAAACCUAAAGAGCUGUACAUCUCUGUCUGUGACAAUCU
.((((((((((..((((((&.....)))))).....)))))))). -16.90

>SINFRUG00000148138 hs-mir-219 1660 1667
UGAUUGUCCAAACGCAAUUCU&UUUAUAUAUACUAUAAGUUAGAUUCCUGACAGGGUGGACAAUCU
.((((((((((..((..((&.....)))).....)).....)))))))). -20.90

miRNA: mir-219

Human predicted target: ENSG00000179361

Mouse predicted target: ENSMUSG00000004661

Rat predicted target: ENSRNOG00000019677

Fugu predicted target: SINFRUG00000125291

Hs Gene description: DEAD RINGER-LIKE 2; DEAD RINGER DROSOPHILA HOMOLOG 2;
BRIGHT AND DEAD RINGER HOMOLOG. [Source:RefSeq;Acc:NM_006465] NM_006465

mir-219 ENSG00000179361 4357 nt UTR 1 hits 313

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>ENSG00000179361 hs-mir-219 313 320
UGAUUGUCCAAACGCAAUUCU&CCCCAGCCACCUCCCAGCUCAGGGCACAGUGUAUCGACAAUCU
.((((((((...((((.....&.....)))).....)))))))). -17.60

mir-219 ENSMUSG00000004661 2002 nt UTR 1 hits 1485

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>ENSMUSG00000004661 hs-mir-219 1485 1492

UGAUUGUCCAAACGCAAUUCU&UCCCCAACCACCUCCCAACCCAGAGUAGUAUAUCGACAAUCU

.(((((((.....((((((&.....)))))).)).....)))))). -16.80

mir-219 ENSRNOG00000019677 4077 nt UTR 1 hits 212

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>ENSRNOG00000019677 hs-mir-219 212 219

UGAUUGUCCAAACGCAAUUCU&UCCCCAGCCACCUCCCAUCCAGAGUAGUAUAUCGACAAUCU

.(((((((.....((((((&.....)))))).)).....)))))). -16.80

mir-219 SINFRUG00000125291 2000 nt UTR 1 hits 1347

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>SINFRUG00000125291 hs-mir-219 1347 1354

UGAUUGUCCAAACGCAAUUCU&GUGUUGUUUAAUUUAUCUGCUGAAGUCUGUCCGUGGACAAUCAA

(((((((((.....(((((.&.....)))))).)).....)))))). -22.70

miRNA: mir-221

Human predicted target: ENSG00000112183

Mouse predicted target: ENSMUSG00000038132

Rat predicted target: ENSRNOG00000016925

Fugu predicted target: SINFRUG00000136995

Hs Gene description: NM_153020

mir-221 ENSG00000112183 3747 nt UTR 2 hits 403 1214

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>ENSG00000112183 hs-mir-221 403 410

AGCUACAUGUCUGCUGGGUUUC&AAUCUAGUUGAACCAGGGAAUACAGAGCGAGCAAUAUGUAGCUU

(((((((((..(((..((((&.....))))..))..))))..))..))))). -
22.50

>ENSG00000112183 hs-mir-221 1214 1221

AGCUACAUGUCUGCUGGGUUUC&UUCAUCUCAUGGCAUAAAUAUUUAGUAAGUCUAGAUGUAGCG

.(((((((..((((((.....&.....))))))..))..))))). -20.60

mir-221 ENSMUSG00000038132 2000 nt UTR 2 hits 493 1307

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>ENSMUSG00000038132 hs-mir-221 493 500

AGCUACAUGUCUGCUGGGUUUC&AAUCUAGUUGAACCAGGGAAUACGGAGUGAGCAAUAUGUAGCUU

(((((((((..(((..(((.&.....))))..))..))))..))..))))). -
20.70

>ENSMUSG00000038132 hs-mir-221 1307 1314

AGCUACAUGUCUGCUGGGUUUC&UUCAUCUCAUGGCAUAAGUUAUUCAGUAGGUCUAGAUGUAGCA

.(((((((..((((((.....&.....))))))..))..))))). -26.40

mir-221 ENSRNOG00000016925 2400 nt UTR 3 hits 370 716 1532

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>ENSRNOG00000016925 hs-mir-221 370 377

AGCUACAUGUCUGCUGGGUUUC&AAUCUAGCUGAACCAGGGAAUACGGAGUGCACAAUAUGUAGCUU

(((((((((..((((((.....&.....))))..))..))))..))..))))). -
21.77

>ENSRNOG00000016925 hs-mir-221 716 723

AGCUACAUGUCUGCUGGGUUUC&AAUCUAGCUGAACCAGGGAAUACGGAGUGCACAAUAUGUAGCUU

(((((((((..((((((((..&)))))))).)).....)))))))). -
21.77

>ENSRNOG00000016925 hs-mir-221 1532 1539

AGCUACAUGUCUGCUGGGUUUC&UUCAUCUCAUGGCAUAAGUUAUUCAGUAGGUCUAGAUGUAGCA

.((((((((((..((((((..(&.....))))).....)))))))). -26.40

mir-221 SINFRUG00000136995 2000 nt UTR 1 hits 123

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>SINFRUG00000136995 hs-mir-221 123 130

AGCUACAUGUCUGCUGGGUUUC&GGGCUGUACGAUGGGUGUCACCUCGCGUUUUUUAUGUAGCA

.(((((((((((..((((((.....&.....)))))))). -26.60

miRNA: mir-221

Human predicted target: ENSG00000117016

Mouse predicted target: ENSMUSG00000032890

Rat predicted target: ENSRNOG00000011171

Rat predicted target: ENSRNOG00000011337

Fugu predicted target: SINFRUG00000149709

Hs Gene description: NM_014747

mir-221 ENSG00000117016 7837 nt UTR 5 hits 510 613 2278 3590 4418

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>ENSG00000117016 hs-mir-221 510 517
AGCUACAUGUCUGCUGGGUUUC&UUGACUCUCCCGGCUCUGCCACUGUUUUCUGAGAAAUGUAGCA
.(((((((((.(((((((((.&.....)))))).....)))))))). -24.82

>ENSG00000117016 hs-mir-221 613 620
AGCUACAUGUCUGCUGGGUUUC&GGCAGCUCUCCUGCCACUGAAUGCGUUCUGCAGCAUGUAGCA
.(((((((((.(((((.((...&.....)..)).)))))))). -22.20

>ENSG00000117016 hs-mir-221 2278 2285
AGCUACAUGUCUGCUGGGUUUC&GUUAGUGACCCACAGGACAGUAUAGAUGUUUGUGGAUGUAGCA
.(((((((((.(((((.&.....)).)).....)))))))). -25.79

>ENSG00000117016 hs-mir-221 3590 3597
AGCUACAUGUCUGCUGGGUUUC&AUAAAGACCUCCAAGGGUACUUCUUUGGAAAUGAAAUGUAGCA
.(((((((((.(((((((((.&.....)))))).....)))).....)))))))). -19.60

>ENSG00000117016 hs-mir-221 4418 4425
AGCUACAUGUCUGCUGGGUUUC&GGACCUUGUUCUCUGAUAAAGGGCUUAAUCUUUCAUGUAGCA
.(((((((((.(((((.&)))))).)).....)))).....)))))))). -19.52

mir-221 ENSMUSG00000032890 2000 nt UTR 2 hits 456 564
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>ENSMUSG00000032890 hs-mir-221 456 463
AGCUACAUGUCUGCUGGGUUUC&CUUUGCCUCUCCAGCAUUGCUGCUUUUUUGAGGAAUGUAGCA
.(((((((((.(((((((((.&.....)))))).....)))))))). -25.16

>ENSMUSG00000032890 hs-mir-221 564 571
AGCUACAUGUCUGCUGGGUUUC&CACUGGUGGUCAUCCCAUUGAAUGCACUCCACAGCAUGUAGCA
.(((((((((.(((((.&.....)).)).....)))))))). -21.60

mir-221 ENSRNOG00000011171 2199 nt UTR 2 hits 468 576

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>ENSRNOG00000011171 hs-mir-221 468 475

AGCUACAUGUCUGCUGGGUUUC&UUGCCUCUCCCAGCAUUGCUGCUCUUUUUUGAGGAAUGUAGCA

.(((((((((((((.....&.....)))))))).((((((((((((.....)))))))). -25.02

>ENSRNOG00000011171 hs-mir-221 576 583

AGCUACAUGUCUGCUGGGUUUC&CGAUGGUGGUCAACCCAUGAACGCACUCCACAGCAUGUAGCA

.(((((((((((((((.....&.....)))))))).((((((((((((.....)))))))). -22.20

mir-221 ENSRNOG00000011337 2000 nt UTR 2 hits 468 576

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>ENSRNOG00000011337 hs-mir-221 468 475

AGCUACAUGUCUGCUGGGUUUC&UUGCCUCUCCCAGCAUUGCUGCUCUUUUUUGAGGAAUGUAGCA

.(((((((((((((((.....&.....)))))))).((((((((((((.....)))))))). -25.02

>ENSRNOG00000011337 hs-mir-221 576 583

AGCUACAUGUCUGCUGGGUUUC&CGAUGGUGGUCAACCCAUGAACGCACUCCACAGCAUGUAGCA

.(((((((((((((((.....&.....)))))))).((((((((((((.....)))))))). -22.20

mir-221 SINFRUG00000149709 2000 nt UTR 2 hits 222 442

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>SINFRUG00000149709 hs-mir-221 222 229

AGCUACAUGUCUGCUGGGUUUC&UUUUAGGCACGACGCAGAUUAUGAUUUUAUGAGAACAUGUAGCA

.(((((((((((((((((((((((((.....&.....)))))))).((((((((((((.....)))))))). -22.36

>SINFRUG00000149709 hs-mir-221 442 449

AGCUACAUGUCUGCUGGGUUUC&AAUAGGCGAGCUAGUACACAAUAUAAAGUAUAGAUUAUGUAGCA

.(((((((((((.((((((((.(...&.....)).)))))).)).)).)).)).). -21.26

miRNA: mir-221

Human predicted target: ENSG00000129757

Mouse predicted target: ENSMUSG00000037664

Rat predicted target: ENSRNOG00000020559

Fugu predicted target: SINFRUG00000123421

Hs Gene description: CYCLIN-DEPENDENT KINASE INHIBITOR 1C (CYCLIN-DEPENDENT KINASE INHIBITOR P57) (P57KIP2). [Source:SWISSPROT;Acc:P49918] NM_000076

mir-221 ENSG00000129757 2286 nt UTR 3 hits 86 450 1328

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>ENSG00000129757 hs-mir-221 86 93

AGCUACAUGUCUGCUGGGUUUC&GUUGGAAGGGCGCUGGGCCUCGGCUGGGACCGUUCAUGUAGCA

.(((((((((((.((((((((.(...&.....)).)))))).)).)).)).)).). -25.80

>ENSG00000129757 hs-mir-221 450 457

AGCUACAUGUCUGCUGGGUUUC&GUUGGAAGGGCGCUGGGCCUCGGCUGGGACCGUUCAUGUAGCA

.(((((((((((.((((((((.(...&.....)).)))))).)).)).)).)).). -25.80

>ENSG00000129757 hs-mir-221 1328 1335

AGCUACAUGUCUGCUGGGUUUC&ACCUGCGGGGCGCAGAAAGACAAGCCUGGACUUCAUGUAGCC

.(((((((((((.((((((((.(...&.....)).)))))).)).)).)).)).). -23.70

mir-221 ENSMUSG00000037664 2313 nt UTR 2 hits 95 493

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>ENSMUSG00000037664 hs-mir-221 95 102
AGCUACAUGUCUGCUGGGUUUC&GAAGAACUCUGGGCUUCGGCUGGGACCUUUCGUUCAUGUAGCA
.(((((((((.(((((..(((((..(&.....))))))..)))))))). -23.00

>ENSMUSG00000037664 hs-mir-221 493 500
AGCUACAUGUCUGCUGGGUUUC&GAAGAACUCUGGGCUUCGGCUGGGACCUUUCGUUCAUGUAGCA
.(((((((((.(((((..(((((..(&.....))))))..)))))))). -23.00

mir-221 ENSRNOG00000020559 2000 nt UTR 1 hits 188
-----1-----

>ENSRNOG00000020559 hs-mir-221 188 195
AGCUACAUGUCUGCUGGGUUUC&GAAGAACUCUGGGCUUCGGCUGGGACCUUUCAUUCAUGUAGCA
.(((((((((.(((((..(((((..(&.....))))))..)))))))). -23.70

mir-221 SINFRUG00000123421 2000 nt UTR 1 hits 1170
-----1-----

>SINFRUG00000123421 hs-mir-221 1170 1177
AGCUACAUGUCUGCUGGGUUUC&AAAAAAUAUCGGCGAAUGACUUCUAACCAGUACAAAUGUAGCA
.(((((((((.(((((..(((((..(&.....))))))..)))))))). -25.20

miRNA: mir-223
Human predicted target: ENSG00000135945
Mouse predicted target: ENSMUSG00000026082
Rat predicted target: ENSRNOG00000018623
Fugu predicted target: SINFRUG00000153974

Hs Gene description: REV1-LIKE; REV1 PROTEIN; REV1 (YEAST HOMOLOG)- LIKE.
[Source:RefSeq;Acc:NM_016316] NM_016316

mir-223 ENSG00000135945 2000 nt UTR 1 hits 1636

-----1-----

>ENSG00000135945 hs-mir-223 1636 1643

UGUCAGUUUGUCAAAUACCCCAA&GAGUGAACAGGCACAUUGGAACUGUGGGGACAUGUAACUGACC

.(((((((...(((...(((((.&.....))))).)))).)). -21.90

mir-223 ENSMUSG00000026082 2300 nt UTR 1 hits 1224

-----1-----

>ENSMUSG00000026082 hs-mir-223 1224 1231

UGUCAGUUUGUCAAAUACCCCAA&GGGUGAGUGCAGGCACGCUGGACUGUGGGGCGGGGAACUGACC

.(((((((...(((...(((((.&.....))))).)))).)). -24.40

mir-223 ENSRNOG00000018623 2000 nt UTR 1 hits 1082

-----1-----

>ENSRNOG00000018623 hs-mir-223 1082 1089

UGUCAGUUUGUCAAAUACCCCAA&AGGUGAGUGCAGGCACGCUGGACUGUGGGGCGGGGAACUGACC

.(((((((...(((...(((((.&.....))))).)))).)). -24.40

mir-223 SINFRUG00000153974 2000 nt UTR 1 hits 1923

-----1-----
--1--

>SINFRUG00000153974 hs-mir-223 1923 1930

UGUCAGUUUGUCAAAUACCCCAA&UACUAUUUAGGGUACAAAAAAGUGUUGAUCGUUAACUGACC

.(((((((...(((...(((((.&.....))))).)))).)). -20.52

