

Figure S1B. Locations, structures and scores of predicted mammalian miRNA target sites.

```
miRNA: mir-1b
Human predicted target: ENSG00000074696
Mouse predicted target: ENSMUSG00000033629
Rat predicted target: ENSRNOG00000012607
Hs Gene description: BUTYRATE-INDUCED TRANSCRIPT 1.
[Source:RefSeq;Acc:NM_016395] NM_016395
mir-1b      ENSG00000074696      3932 nt UTR      3 hits 105 1495 1588
-----1-----1-----1-----
-----
>ENSG00000074696 hs-mir-1b      105      112
UGGAAUGUAAAGAAGUAUGUAU&AAUUCUCAGUGAGGCUAUCUCCUUUUCUCCAGUAACAUUCCU
.((((((((((((((...((.&.....)))))))).)))). -15.40
>ENSG00000074696 hs-mir-1b      1495      1502
UGGAAUGUAAAGAAGUAUGUAU&GUUGGCCAUUGUAAAAACAUCAGUUUCCUCUCAUACAUCUCAA
((((((((((...((.&.....)))))))).)))). -17.00
>ENSG00000074696 hs-mir-1b      1588      1595
UGGAAUGUAAAGAAGUAUGUAU&AAGGAGUGAUAGCUCUUCUGUUCUGCCAUUCUCCAACAUUCCU
.((((((((...(((...((.&.....)))))))).)))). -14.90
mir-1b      ENSMUSG00000033629      3468 nt UTR      2 hits 122 1072
-----1-----1-----
-----
>ENSMUSG00000033629 hs-mir-1b      122      129
UGGAAUGUAAAGAAGUAUGUAU&GUUUUUUAAAGUAAGGCUGUCUCUCUUCUCCAGUAACAUUCCU
.((((((((((((((...((.&.....)))))))).)))). -15.61
>ENSMUSG00000033629 hs-mir-1b      1072      1079
UGGAAUGUAAAGAAGUAUGUAU&UGGCUACUGUUCAAGACAGCUUCAGUCUCUCUACCACAUUCCAU
((((((((((...(((...((.&.....)))))))).)))). -17.20
mir-1b      ENSRNOG00000012607      2000 nt UTR      2 hits 126 1276
-----1-----1-----
-----
>ENSRNOG00000012607 hs-mir-1b      126      133
UGGAAUGUAAAGAAGUAUGUAU&UGUUUUUAAAGUAAGGCUGUCUCUUCUCCAGUAACAUUCCU
.((((((((((((((...((.&.....)))))))).)))). -16.00
>ENSRNOG00000012607 hs-mir-1b      1276      1283
UGGAAUGUAAAGAAGUAUGUAU&UAGGGCCACCACAAGAGGUCUUGAGUCUCUUCACCACAUUCCAU
((((((((((...(((...((.&.....)))))))).)))). -17.60

miRNA: mir-1b
Human predicted target: ENSG00000144233
Mouse predicted target: ENSMUSG00000041915
Rat predicted target: ENSRNOG00000016250
mir-1b      ENSG00000144233      5464 nt UTR      2 hits 2393 4295
```

```

-----1-----
-----1-----
>ENSG00000144233 hs-mir-1b 2393 2400
UGGAAUGUAAAGAAGUAUGUAU&AGUGGUUUUUGGAGUGAAGAAGCCUACUCCCUGCACAUUCCC
.(((((((.(((.(((.((.&.....)))))))).)))). -17.20
>ENSG00000144233 hs-mir-1b 4295 4302
UGGAAUGUAAAGAAGUAUGUAU&UCGUUUCUUCAGAGAAAUAUGUUCUAGAGAUUACAUCUCCAU
(((((((.(((.(((.((.&.....)))))))).)))). -17.30
mir-1b ENSMUSG00000041915 5013 nt UTR 2 hits 1178 2285

```

```

-----1-----
-----1-----
>ENSMUSG00000041915 hs-mir-1b 1178 1185
UGGAAUGUAAAGAAGUAUGUAU&GUCCAAACUGUUCGUGUUGCUCAUUUAAACUCUUGACAUCUCCC
.(((((((.(((.(((.((.&.....)))))))).)))). -17.50
>ENSMUSG00000041915 hs-mir-1b 2285 2292
UGGAAUGUAAAGAAGUAUGUAU&UCAGUGGUUUCAGAGUGAAGUCGCCUACUCCUGCACAUUCCC
.(((((((.(((.(((.((.&.....)))))))).)))). -18.60
mir-1b ENSRNOG00000016250 4098 nt UTR 2 hits 1351 3879

```

```

-----1-----
-----1-----
>ENSRNOG00000016250 hs-mir-1b 1351 1358
UGGAAUGUAAAGAAGUAUGUAU&CCAAACUGUUCGUGUUGCUCAUUUAAAAACUCUUGACAUCUCCC
.(((((((.(((.(((.((.&.....)))))))).)))). -17.50
>ENSRNOG00000016250 hs-mir-1b 3879 3886
UGGAAUGUAAAGAAGUAUGUAU&CCAAACUGUUCGUGUUGCUCAUUUAAAAACUCUUGACAUCUCCC
.(((((((.(((.(((.((.&.....)))))))).)))). -17.50

```

```

miRNA: mir-1b
Human predicted target: ENSG00000160211
Mouse predicted target: ENSMUSG00000031400
Rat predicted target: ENSRNOG00000020508
Hs Gene description: GLUCOSE-6-PHOSPHATE 1-DEHYDROGENASE (EC 1.1.1.49)
(G6PD). [Source:SWISSPROT;Acc:P11413] NM_000402
mir-1b ENSG00000160211 2609 nt UTR 3 hits 97 165 433

```

```

---1--1-----1-----
-----1-----
>ENSG00000160211 hs-mir-1b 97 104
UGGAAUGUAAAGAAGUAUGUAU&GUCGGGAGGACUCCGGGACCAUUGACCUCAGCUGCACAUUCCU
.(((((((.(((.(((.((.&.....)))))))).)))). -14.90
>ENSG00000160211 hs-mir-1b 165 172
UGGAAUGUAAAGAAGUAUGUAU&CCGCCUUCGUGUUGCUCAUUUAAACUCUUGACAUCUCCC
.(((((((.(((.(((.((.&.....)))))))).)))). -15.84
>ENSG00000160211 hs-mir-1b 433 440
UGGAAUGUAAAGAAGUAUGUAU&CCUGUGGCCUUGCCGCCAGCCUCAGUGCCACUUGACAUCUCCU

```

.(((((((.((((.((((.....&.....))))).))))).))))). -18.60  
mir-1b ENSMUSG00000031400 2721 nt UTR 2 hits 210 527

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

>ENSMUSG00000031400 hs-mir-1b 210 217  
UGGAAUGUAAAGAAGUAUGUAU&UGCUGCUGCCACUGCCACCACCAGUAAACCCAGCUACAUCCU  
.(((((((.((((.((((.....&.....))))).))))).))))). -14.90

>ENSMUSG00000031400 hs-mir-1b 527 534  
UGGAAUGUAAAGAAGUAUGUAU&CCUGCCCAUGGCCACACUAGCCUCAGUGCUACUAGACAUCCU  
.(((((((.((((.((((.....&.....))))).))))).))))). -20.00

mir-1b ENSRNOG00000020508 2000 nt UTR 2 hits 214 535  
-----1-----1-----  
-----

>ENSRNOG00000020508 hs-mir-1b 214 221  
UGGAAUGUAAAGAAGUAUGUAU&UGCUGCUGCCACUGCCACUACCACUAAGCCCAGCUACAUCCU  
.(((((((.((((.((((.....&.....))))).))))).))))). -14.90

>ENSRNOG00000020508 hs-mir-1b 535 542  
UGGAAUGUAAAGAAGUAUGUAU&CCUGCCCAUAGCCACACUAGCCUUAGUGCUACUUGACAUCCU  
.(((((((.((((.((((.....&.....))))).))))).))))). -20.90

miRNA: mir-1b

Human predicted target: ENSG00000166068  
Mouse predicted target: ENSMUSG00000027351  
Rat predicted target: ENSRNOG00000005209  
Hs Gene description: NM\_152594

mir-1b ENSG00000166068 4376 nt UTR 2 hits 604 1440  
-----1-----1-----  
-----

>ENSG00000166068 hs-mir-1b 604 611  
UGGAAUGUAAAGAAGUAUGUAU&CUGAAGUAGAUUAUAUAUAUAUAUAUCUACUGUCACAUCCAU  
(((((((.((((.((((.....&.....))))).))))).))))). -20.00

>ENSG00000166068 hs-mir-1b 1440 1447  
UGGAAUGUAAAGAAGUAUGUAU&AUUAAAACUCUAACCAAGGAAAGGGUUCUUUAAGAACAUCCU  
.(((((((.((((.((((.....&.....))))).))))).))))). -16.40

mir-1b ENSMUSG00000027351 2000 nt UTR 2 hits 584 1214  
-----1-----1-----  
-----

>ENSMUSG00000027351 hs-mir-1b 584 591  
UGGAAUGUAAAGAAGUAUGUAU&CUAGUUCUGAGGUAGAUGUGCACAUAUCUGCCACCACAUCCAU  
(((((((.((((.((((.....&.....))))).))))).))))). -18.80

>ENSMUSG00000027351 hs-mir-1b 1214 1221  
UGGAAUGUAAAGAAGUAUGUAU&UCAAUCCACCAUUGUGAAUGGAAAUCUUAUACACCACAUCCU  
.(((((((.((((.((((.....&.....))))).))))).))))). -14.50

mir-1b ENSRNOG00000005209 2003 nt UTR 2 hits 587 1222  
-----1-----1-----  
-----

>ENSRNOG00000005209 hs-mir-1b 587 594  
UGGAAUGUAAAGAAGUAUGUAU&CUAGCUCUGAGGUAGAUGUGCACACAUCUGCCACCACAUUCCAU  
((((((((((..(((.(.((((&.....)))))).)))).)).....)))))))). -20.20  
>ENSRNOG00000005209 hs-mir-1b 1222 1229  
UGGAAUGUAAAGAAGUAUGUAU&UCAAUCCACCAUUGUGAAUGGAAAUCUCGUUAUACACAUUCCU  
((((((((((..(((.(.((((&.....)))))).)))).)).....)))))))). -16.40

miRNA: mir-1b

Human predicted target: ENSG00000176697

Mouse predicted target: ENSMUSG00000048482

Rat predicted target: ENSRNOG00000005051

Hs Gene description: BRAIN-DERIVED NEUROTROPHIC FACTOR PRECURSOR (BDNF).

[Source:SWISSPROT;Acc:P23560] NM\_170733

mir-1b ENSG00000176697 2498 nt UTR 3 hits 220 390 1322

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

>ENSG00000176697 hs-mir-1b 220 227  
UGGAAUGUAAAGAAGUAUGUAU&ACAGUCAUUUGCGCACAAACUUAAAAAGUCUGCAUUACAUCUCCU  
((((((((((..(((.(.((((&.....)))))).)))).)).....)))))))). -16.51

>ENSG00000176697 hs-mir-1b 390 397  
UGGAAUGUAAAGAAGUAUGUAU&AAACACACACACACACAACAAAAUUUGAACCAAAACAUUCCGU  
((((((((((.....&.....)))))))). -14.00

>ENSG00000176697 hs-mir-1b 1322 1329  
UGGAAUGUAAAGAAGUAUGUAU&CAAGGUCUAGGUGGAGGUGGGGCAUGGUUUUGAGACAUUCCAA  
((((((((((..(((.(.((((&.....)))))).)))).)).....)))))))). -20.00

mir-1b ENSMUSG00000048482 4854 nt UTR 2 hits 213 1306  
-----1-----1-----  
-----

>ENSMUSG00000048482 hs-mir-1b 213 220  
UGGAAUGUAAAGAAGUAUGUAU&ACAGUCAUUUGCGCACAAACUUUAAAAGUCUGCAUUACAUCUCCU  
((((((((((..(((.(.((((&.....)))))).)))).)).....)))))))). -16.51

>ENSMUSG00000048482 hs-mir-1b 1306 1313  
UGGAAUGUAAAGAAGUAUGUAU&AAGGUCUAGGAUGGAGGUGGGGAAUGGUACUUGAGACAUUCCU  
((((((((((..(((.(.((((&.....)))))).)))).)).....)))))))). -18.70

mir-1b ENSRNOG00000005051 2266 nt UTR 2 hits 217 1298  
-----1-----1-----  
-----

>ENSRNOG00000005051 hs-mir-1b 217 224  
UGGAAUGUAAAGAAGUAUGUAU&ACAGUCAUUUGCGCACAAACUUUAAAAGUCUGCAUUACAUCUCCU  
((((((((((..(((.(.((((&.....)))))).)))).)).....)))))))). -16.51

>ENSRNOG00000005051 hs-mir-1b 1298 1305  
UGGAAUGUAAAGAAGUAUGUAU&UGAGGUCUAGAUGGAGGUGGGGAAUGGUACUUGAGACAUUCCU  
((((((((((..(((.(.((((&.....)))))).)))).)).....)))))))). -18.70

miRNA: let-7a

Human predicted target: ENSG00000022567  
Mouse predicted target: ENSMUSG00000036649  
Rat predicted target: ENSRNOG00000007818

let-7a ENSG00000022567 7016 nt UTR 2 hits 1056 5277

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

>ENSG00000022567 hs-let-7a 1056 1063  
UGAGGUAGUAGGUUGUAUAGUU&CCAGCGGGCCUGCCUCCCAAGUCCCGCCGCAAGGCUACCUCGG  
(((((((((((((((((...(((&..))..))...)))...)))))))). -20.86

>ENSG00000022567 hs-let-7a 5277 5284  
UGAGGUAGUAGGUUGUAUAGUU&GCCUGUUCUGGUGGAGCCGGGGUGGGGCCCGCGGUCUACCUCU  
(((((((((((((((((...(((&.....))..))...)))...)))))))). -20.20

let-7a ENSMUSG00000036649 2000 nt UTR 2 hits 896 952  
-----1-1-----  
-----

>ENSMUSG00000036649 hs-let-7a 896 903  
UGAGGUAGUAGGUUGUAUAGUU&CAGGUGAGCAUCGGUCUCCGAGUCCUGCUGCACGGCUACCUCGA  
(((((((((((((((((...&.....))..))...)))...)))))))). -21.90

>ENSMUSG00000036649 hs-let-7a 952 959  
UGAGGUAGUAGGUUGUAUAGUU&GUGGCAUCAGAGCAGGGCGCGGGAAGGGGCCGAGCCUACCUCU  
(((((((((((((((((...&.....))..))...)))...)))))))). -19.50

let-7a ENSRNOG00000007818 2000 nt UTR 2 hits 892 948  
-----1-1-----  
-----

>ENSRNOG00000007818 hs-let-7a 892 899  
UGAGGUAGUAGGUUGUAUAGUU&CCAGGUGAGCAUUGGCUCCCAAUCCUGCUGCAAGGCUACCUCGA  
(((((((((((((((((...(((((...&.....))..))...)))...)))))))). -22.70

>ENSRNOG00000007818 hs-let-7a 948 955  
UGAGGUAGUAGGUUGUAUAGUU&UGGCAUCAGAGCAGGGCACGUGAAGGUGCCGGGGCCUACCUCU  
(((((((((((((((((...(((((...&.....))..))...)))...)))))))). -17.70

miRNA: let-7a

Human predicted target: ENSG00000082153  
Mouse predicted target: ENSMUSG00000026033  
Rat predicted target: ENSRNOG00000013977

Hs Gene description: BASIC LEUCINE ZIPPER AND W2 DOMAINS 1; BASIC LEUCINE-ZIPPER PROTEIN BZAP45. [Source:RefSeq;Acc:NM\_014670]

let-7a ENSG00000082153 2000 nt UTR 2 hits 84 251

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

>ENSG00000082153 hs-let-7a 84 91  
UGAGGUAGUAGGUUGUAUAGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUACAUCUCCUACCUCU  
(((((((((((((((((...(((((...&.....))..))...)))...)))))))). -20.70

>ENSG00000082153 hs-let-7a 251 258  
UGAGGUAGUAGGUUGUAUAGUU&GAAUCUAAUGUUGCAUUAGUCUUUUCAGUUAUCUCCUACCUCU

.(((((((.((((.....&.....)))))))). -17.90  
let-7a ENSMUSG00000026033 2413 nt UTR 2 hits 84 252

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

>ENSMUSG00000026033 hs-let-7a 84 91  
UGAGGUAGUAGGUUGUAUAGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUACAUCUCCUACCUC  
.(((((((.((((.....&.....)))))))). -20.70

>ENSMUSG00000026033 hs-let-7a 252 259  
UGAGGUAGUAGGUUGUAUAGUU&UUGAAUCUGAUGUUGCAUUGGUUUUCAGUUACCUUCUACCUC  
.(((((((.((((.....&.....)))))))). -20.50

let-7a ENSRNOG00000013977 2000 nt UTR 2 hits 760 920  
-----1-----1-----  
-----

>ENSRNOG00000013977 hs-let-7a 760 767  
UGAGGUAGUAGGUUGUAUAGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUACAUCUCCUACCUC  
.(((((((.((((.....&.....)))))))). -20.70

>ENSRNOG00000013977 hs-let-7a 920 927  
UGAGGUAGUAGGUUGUAUAGUU&ACGGAAGCUGGCGCUGCACUGGUCUUCAGUCCCUCUACCUC  
.(((((((.((((.....&.....)))))))). -19.80

miRNA: let-7a

Human predicted target: ENSG00000100823

Mouse predicted target: ENSMUSG00000035960

Rat predicted target: ENSRNOG00000009663

Hs Gene description: DNA-(APURINIC OR APYRIMIDINIC SITE) LYASE (EC 4.2.99.18) (AP ENDONUCLEASE 1) (APEX NUCLEASE) (APEN) (REF-1 PROTEIN).

[Source:SWISSPROT;Acc:P27695] NM\_080649

let-7a ENSG00000100823 2259 nt UTR 2 hits 911 1250  
-----1-----1-----  
-----

>ENSG00000100823 hs-let-7a 911 918  
UGAGGUAGUAGGUUGUAUAGUU&GCCCCUCCAAACCUAAGUGAGGGCCUGGUUCCUCCUACCUCU  
.(((((((.((((.....&.....)))))))). -19.90

>ENSG00000100823 hs-let-7a 1250 1257  
UGAGGUAGUAGGUUGUAUAGUU&GAAGAAAAGAAAGAUGGGGUUAAUGUUGGUCUCCACUACCUC  
.(((((((.((((.....&.....)))))))). -18.70

let-7a ENSMUSG00000035960 2165 nt UTR 2 hits 308 884  
-----1-----1-----  
-----

>ENSMUSG00000035960 hs-let-7a 308 315  
UGAGGUAGUAGGUUGUAUAGUU&CAGAUGAGUCCCUAACCUCUCCCAAGACAGUGACCCUACCUCAG  
(((((((.((((.....&.....)))))))). -20.90

>ENSMUSG00000035960 hs-let-7a 884 891  
UGAGGUAGUAGGUUGUAUAGUU&UCCAAACAUAAGGAAGGAAGGGACUGCUUCCUCCUACCUCU  
.(((((((.((((.....&.....)))))))). -21.10

let-7a ENSRNOG00000009663 2102 nt UTR 2 hits 246 734

-----1-----1-----  
-----  
>ENSRNOG0000009663 hs-let-7a 246 253  
UGAGGUAGUAGGUUGUAUAGUU&CAGAUGAAUCCCUGACCUCUCCCAAGACAGUGACCCUACCUCAG  
((((((((((..(((..(...(((&.....))))).)))))..))))). -20.90  
>ENSRNOG0000009663 hs-let-7a 734 741  
UGAGGUAGUAGGUUGUAUAGUU&ACCCUCCAAACCUAAGUCAGGGGCUGGUUCCUACCUCU  
((((((((((..(((..(...(((&.....))))).)))))..))))). -21.30

miRNA: let-7a

Human predicted target: ENSG00000119906

Mouse predicted target: ENSMUSG00000036097

Rat predicted target: ENSRNOG00000014489

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&UUGCUGUUUGAGAGGCAAGAAAUAUUAUUAUCUUGAUACUACCUCU  
((((((((((..(((..(...(((&.....))))).)))))..))))). -22.20  
>ENSG00000119906 hs-let-7a 1560 1567  
UGAGGUAGUAGGUUGUAUAGUU&UGUUGUUUACUGGUAAGAAUAUUAUUAUCUUGAUACUACCUCU  
((((((((((..(((..(...(((&.....))))).)))))..))))). -19.70  
let-7a ENSMUSG00000036097 4668 nt UTR 2 hits 1314 1542

-----1-----1-----  
-----  
>ENSMUSG00000036097 hs-let-7a 1314 1321  
UGAGGUAGUAGGUUGUAUAGUU&GAGAGGAGAAAUAAGUUCUGAGAGCUAACUCUUAUUAUUAUCUUGAUACUACCUCU  
((((((((((..(((..(...(((&.....))))).)))))..))))). -20.70  
>ENSMUSG00000036097 hs-let-7a 1542 1549  
UGAGGUAGUAGGUUGUAUAGUU&GUGUUGAGUUUACUGGUAAGAAUAUUAUUAUCUUGAUACUACCUCU  
((((((((((..(((..(...(((&.....))))).)))))..))))). -19.70  
let-7a ENSRNOG00000014489 4549 nt UTR 2 hits 1194 1424

-----1-----1-----  
-----  
>ENSRNOG00000014489 hs-let-7a 1194 1201  
UGAGGUAGUAGGUUGUAUAGUU&UUGAGAGGAGAAAUAAGUUCUGAGAGCUAACUCUUAUUAUUAUCUUGAUACUACCUCU  
((((((((((..(((..(...(((&.....))))).)))))..))))). -20.50  
>ENSRNOG00000014489 hs-let-7a 1424 1431  
UGAGGUAGUAGGUUGUAUAGUU&GUGUUGAGUUUACUGGUAAGAAUAUUAUUAUCUUGAUACUACCUCU  
((((((((((..(((..(...(((&.....))))).)))))..))))). -19.70

miRNA: let-7a

Human predicted target: ENSG00000131242

Mouse predicted target: ENSMUSG00000017639  
 Rat predicted target: ENSRNOG00000014135  
 Hs Gene description: RAB11-FAMILY INTERACTING PROTEIN 4.  
 [Source:RefSeq;Acc:NM\_032932]

let-7a ENSG00000131242 8479 nt UTR 2 hits 344 704

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

>ENSG00000131242 hs-let-7a 344 351  
 UGAGGUAGUAGGUUGUAUAGUU&GGAAGCUCGUGUUUCCGGUACUGGGUAAAAUGAUUCUACCUCU  
 .((((((((((..((..(((((.&.....))))))..))..))..))..))..))..))..))..))..). -17.70

>ENSG00000131242 hs-let-7a 704 711  
 UGAGGUAGUAGGUUGUAUAGUU&CCUAUAGAGUUCGUGCACUCCCCCAUCCAUGCUACCUACCUC  
 .((((((((((..(((((.&.....))))..))..))..))..))..))..))..))..). -18.61

let-7a ENSMUSG00000017639 2000 nt UTR 2 hits 311 636

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

>ENSMUSG00000017639 hs-let-7a 311 318  
 UGAGGUAGUAGGUUGUAUAGUU&UGGAAGCUUGCAUUUAGGAUACUGAUGAAAUGAUUCUACCUCU  
 .((((((((((..((..(((((.&.....))))))..))..))..))..))..))..))..). -16.70

>ENSMUSG00000017639 hs-let-7a 636 643  
 UGAGGUAGUAGGUUGUAUAGUU&UCGUAGUUUUCUGAGCCCCUCCAGUCUUGCUUGCCUACCUC  
 .((((((((((..(((((.&.....))))..))..))..))..))..))..))..). -18.90

let-7a ENSRNOG00000014135 2000 nt UTR 2 hits 331 660

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

>ENSRNOG00000014135 hs-let-7a 331 338  
 UGAGGUAGUAGGUUGUAUAGUU&UGGAAGCUUGCAUUUCAGAUACUGAUGACAUGAUUCUACCUCU  
 .((((((((((..((..(((((.&.....))))))..))..))..))..))..))..))..). -19.80

>ENSRNOG00000014135 hs-let-7a 660 667  
 UGAGGUAGUAGGUUGUAUAGUU&AGUUUUCUGUGCCCUCUCCAGCCAGUCUUGCUUGCCUACCUC  
 .((((((((((..(((((.&.....))))..))..))..))..))..))..))..). -21.67

miRNA: let-7a  
 Human predicted target: ENSG00000135912  
 Mouse predicted target: ENSMUSG00000033257  
 Rat predicted target: ENSRNOG00000017129  
 Hs Gene description: NM\_014640

let-7a ENSG00000135912 2000 nt UTR 2 hits 45 983

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

>ENSG00000135912 hs-let-7a 45 52  
 UGAGGUAGUAGGUUGUAUAGUU&CUCCAAAAGCCUCUGCCCAGGAGCAUGGGCAUCAGCUACCUCAC  
 (((((((((..((..(((((.&.....))))..))..))..))..))..))..))..). -21.30

>ENSG00000135912 hs-let-7a 983 990



UGAGGUAGUAGGUUGUAUAGUU&CAAACCUCAGACUAAACUCUUGUACUGAACUGAUUCUACCUCC  
.(((((((...(((((((...&.....))))))..))))).-20.90  
let-7a ENSMUSG00000033257 2000 nt UTR 3 hits 617 1137 1899

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

>ENSMUSG00000033257 hs-let-7a 617 624  
UGAGGUAGUAGGUUGUAUAGUU&UUUGUUAUAGUGGUCUCUGCCAACAUCGCUCAUGACUACCUCAA  
(((((((...(((((((...&.....))))))..))))).-19.80

>ENSMUSG00000033257 hs-let-7a 1137 1144  
UGAGGUAGUAGGUUGUAUAGUU&UGAGCUCGUGACUGGUCCUGCACAGGAGCACUCAGCUACCUCAA  
(((((((...(((((((...&.....))))))..))))).-21.84

>ENSMUSG00000033257 hs-let-7a 1899 1906  
UGAGGUAGUAGGUUGUAUAGUU&GCUUCUCAUCUCUGACAGCUAAUACUCAGUGGCAUCUACCUCC  
.(((((((...(((((((...&.....))))))..))))).-19.70

let-7a ENSRNOG00000017129 2000 nt UTR 2 hits 883 1581  
-----1-----1-----  
-----

>ENSRNOG00000017129 hs-let-7a 883 890  
UGAGGUAGUAGGUUGUAUAGUU&UGAGCCCAUGACUGGUCCUACACAGGAGCACUCAGCUACCUCAA  
(((((((...(((((((...&.....))))))..))))).-21.84

>ENSRNOG00000017129 hs-let-7a 1581 1588  
UGAGGUAGUAGGUUGUAUAGUU&GCUUCUCAUCUCUGACAGUAAUACUCAACUGCAUCUACCUCC  
.(((((((...(((((((...&.....))))))..))))).-20.00

miRNA: let-7a

Human predicted target: ENSG00000140548

Mouse predicted target: ENSMUSG00000048897

Rat predicted target: ENSRNOG00000014278

let-7a ENSG00000140548 2964 nt UTR 2 hits 528 1859  
-----1-----1-----  
1-----

>ENSG00000140548 hs-let-7a 528 535  
UGAGGUAGUAGGUUGUAUAGUU&CUGUCGACGGACCGCCAGGCAGGGCACUCUGCCUUCUACCUCC  
.(((((((...(((((((...&.....))))))..))))).-22.20

>ENSG00000140548 hs-let-7a 1859 1866  
UGAGGUAGUAGGUUGUAUAGUU&UUCUCCUGCUGAGCAGAAGGCAUCAUCCCGCAACUACCUCU  
.(((((((...(((((((...&.....))))))..))))).-21.30

let-7a ENSMUSG00000048897 2000 nt UTR 2 hits 519 1756  
-----1-----1-----  
-----

>ENSMUSG00000048897 hs-let-7a 519 526  
UGAGGUAGUAGGUUGUAUAGUU&CUAUCACUCAAGAGCCAGGCAGGGCACUCUGCCUUCUACCUCC  
.(((((((...(((((((...&.....))))))..))))).-22.20

>ENSMUSG00000048897 hs-let-7a 1756 1763  
UGAGGUAGUAGGUUGUAUAGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCUGCAAACUACCUCU  
.(((((((...(((((((...&.....))))))..))))).-21.00

let-7a ENSRNOG00000014278 4055 nt UTR 3 hits 550 1647 2696

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

>ENSRNOG00000014278 hs-let-7a 550 557  
UGAGGUAGUAGGUUGUAUAGUU&CUGUCACUCAAGAGCCAGGCAGGGCACUCUGCCUUCUACCUCC  
.(((((((((((((...(((&.....)))))).....)))))))). -22.20  
>ENSRNOG00000014278 hs-let-7a 1647 1654  
UGAGGUAGUAGGUUGUAUAGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUGCAAACUACCUCU  
.(((((((((((((((...(((&.....)))))).....)))))))). -21.00  
>ENSRNOG00000014278 hs-let-7a 2696 2703  
UGAGGUAGUAGGUUGUAUAGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUGCAAACUACCUCU  
.(((((((((((((((...(((&.....)))))).....)))))))). -21.00

miRNA: let-7a

Human predicted target: ENSG00000148200  
Mouse predicted target: ENSMUSG00000026752  
Rat predicted target: ENSRNOG00000013232  
Hs Gene description: ORPHAN NUCLEAR RECEPTOR NR6A1 (GERM CELL NUCLEAR FACTOR) (GCNF) (RETINOID RECEPTOR-RELATED TESTIS SPECIFIC RECEPTOR) (RTR).  
[Source:SWISSPROT;Acc:Q15406] NM\_033335  
let-7a ENSG00000148200 2000 nt UTR 3 hits 388 1359 1387  
-----1-----11-----  
-----

>ENSG00000148200 hs-let-7a 388 395  
UGAGGUAGUAGGUUGUAUAGUU&UAAGAUGACUAUUUCCAUAUAUGUUGACAAAGAUGACUACCUCAA  
(((((((((((((((...(((&.....)))))).....)))))))). -22.21  
>ENSG00000148200 hs-let-7a 1359 1366  
UGAGGUAGUAGGUUGUAUAGUU&GCCAGAAGCACCUGGAAGGGAAGGGGGCCUUUAAACUACCUCAG  
((((((((((((((((...&.....)))))).....)))))))). -20.50  
>ENSG00000148200 hs-let-7a 1387 1394  
UGAGGUAGUAGGUUGUAUAGUU&CUUUAACUACCUCAGGUUCCUAAUGGCCCGGCUGCUACCUCU  
.((((((((((((((((...&.....)))))).....)))))))). -23.00  
let-7a ENSMUSG00000026752 6457 nt UTR 8 hits 101 371 794 1228 3827  
4135 4145 4310

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

>ENSMUSG00000026752 hs-let-7a 101 108  
UGAGGUAGUAGGUUGUAUAGUU&AAGAGCCAGAGACCAAGAUGGAGACUGUGGAGCAGCUACCUCC  
.(((((((((((((((...(((&.....)))))).....)))))))). -26.60  
>ENSMUSG00000026752 hs-let-7a 371 378  
UGAGGUAGUAGGUUGUAUAGUU&CUAGAUGAGUAUUUCCAUAUAUGUUGACAAAGACAACUACCUCAA  
((((((((((((((((...&.....)))))).....)))))))). -21.00  
>ENSMUSG00000026752 hs-let-7a 794 801  
UGAGGUAGUAGGUUGUAUAGUU&GAUCUACCAAGGCCUACCUUCUUCAGACCCCAUCCCUACCUCU  
.((((((((((((((((...&.....)))))).....)))))))). -19.30

>ENSMUSG00000026752 hs-let-7a 1228 1235  
UGAGGUAGUAGGUUGUAUAGUU&AGCCAGAAAGACCUAGAAAGGAAAGGGGCAUUA AACUACCUCAU  
((((((((((((((((.....((&)).....)))))).....)))))))). -19.95  
>ENSMUSG00000026752 hs-let-7a 3827 3834  
UGAGGUAGUAGGUUGUAUAGUU&UGUUUUUUACUCAAAUUUCCAUGGGGGGAAAAAAGACUACCUCU  
((((((((((((.....&.....)))))).....)))))). -17.40  
>ENSMUSG00000026752 hs-let-7a 4135 4142  
UGAGGUAGUAGGUUGUAUAGUU&AUUUCAGGGACUCUGAUGGCAAGUGCAUCAUGAACCUACCUCAG  
((((((((.....(.(((.....&.....)))))).).....)))))))). -19.50  
>ENSMUSG00000026752 hs-let-7a 4145 4152  
UGAGGUAGUAGGUUGUAUAGUU&CUCUGAUGGCAAGUGCAUCAUGAACCUACCUCAGGCUACCUC  
((((((((((((((((.....&.....)))))).....)))))). -21.70  
>ENSMUSG00000026752 hs-let-7a 4310 4317  
UGAGGUAGUAGGUUGUAUAGUU&AGUUGGCGGGCUCUGCAGGCUCUCAGGCCUCUGCUACCUC  
((((((((((((((((.....(((&.....)))))).).....)))))))). -24.61  
let-7a ENSRNOG00000013232 5506 nt UTR 9 hits 374 774 1223 2875 3184  
3194 3359 3736 4193  
-----1-----1-----1-----1-----  
-----1-----2-----1-----  
-1-----1-----  
>ENSRNOG00000013232 hs-let-7a 374 381  
UGAGGUAGUAGGUUGUAUAGUU&CUAGGUGACUAUUUCCAUA AUGUUGACAAAGACAACUACCUCAG  
((((((((.....(.(((.....&.....)))))).....)))))). -22.41  
>ENSRNOG00000013232 hs-let-7a 774 781  
UGAGGUAGUAGGUUGUAUAGUU&UAGCUGCCUGGUUCCUGACCCAGGUCUACCAGGCCUACCUC  
((((((((((((.....&.....)))))).....)))))). -18.61  
>ENSRNOG00000013232 hs-let-7a 1223 1230  
UGAGGUAGUAGGUUGUAUAGUU&AGCCAGAAGCACCUAGAAGGGAAAGGGGCUUUA AACUACCUCAU  
((((((((((((.....&.....)))))).....)))))). -20.20  
>ENSRNOG00000013232 hs-let-7a 2875 2882  
UGAGGUAGUAGGUUGUAUAGUU&UGUUUUUUAUCAAGUUUCCAUGGGGGGAAAAAAGACUACCUCU  
((((((((((((.....&.....)))))).....)))))). -17.40  
>ENSRNOG00000013232 hs-let-7a 3184 3191  
UGAGGUAGUAGGUUGUAUAGUU&UUGGAUUUCAGGGACUCUGAUGGCAAGUGGUGAACCUACCUCAG  
((((((((.....(.(((.....&.....)))))).).....)))))))). -18.94  
>ENSRNOG00000013232 hs-let-7a 3194 3201  
UGAGGUAGUAGGUUGUAUAGUU&GGGACUCUGAUGGCAAGUGGUGAACCUACCUCAGGCUACCUC  
((((((((((((.....&.....)))))).....)))))). -20.70  
>ENSRNOG00000013232 hs-let-7a 3359 3366  
UGAGGUAGUAGGUUGUAUAGUU&AGUUGGCGGGCUCUGCAGGCUCUCAGGCCUCUGCUACCUC  
((((((((((((((((.....(((&.....)))))).).....)))))))). -24.61  
>ENSRNOG00000013232 hs-let-7a 3736 3743  
UGAGGUAGUAGGUUGUAUAGUU&UAGCUGCCUGGUUCCUGACCCAGGUCUACCAGGCCUACCUC  
((((((((((((.....&.....)))))).....)))))). -18.61  
>ENSRNOG00000013232 hs-let-7a 4193 4200  
UGAGGUAGUAGGUUGUAUAGUU&AGCCAGAAGCACCUAGAAGGGAAAGGGGCUUUA AACUACCUCAU  
((((((((((((((((.....&.....)))))).....)))))))). -20.20

miRNA: let-7a

Human predicted target: ENSG00000163935

Mouse predicted target: ENSMUSG00000006527

Rat predicted target: ENSRNOG00000016645

Hs Gene description: SCM-RELATED GENE CONTAINING FOUR MBT DOMAINS.

[Source:RefSeq;Acc:NM\_016329]

let-7a ENSG00000163935 2000 nt UTR 2 hits 604 944

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

-----

>ENSG00000163935 hs-let-7a 604 611  
UGAGGUAGUAGGUUGUAUAGUU&AUUUUAAAUCGAUUCUAGGAGUUCUUGUUUACUACCUCU  
.((((((((((.....&.....))))))))). -19.50

>ENSMUSG00000163935 hs-let-7a 944 951  
UGAGGUAGUAGGUUGUAUAGUU&UUAUUUUGUGUUUACUUUCUCUAGAGUUGUUUGUCUACCUCU  
.((((((((((..(....((..&.....))))))....)).))))). -17.00

let-7a ENSMUSG00000006527 2000 nt UTR 2 hits 578 904

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

-----

>ENSMUSG00000006527 hs-let-7a 578 585  
UGAGGUAGUAGGUUGUAUAGUU&CAUUUUAAAUCUAUUCUAGGAGUUCUUGUUUACUACCUCU  
.((((((((((..(.....&.....)).))))))))). -20.70

>ENSMUSG00000006527 hs-let-7a 904 911  
UGAGGUAGUAGGUUGUAUAGUU&UAUUUUUAUGUUUAUUCUUCUGUUAGAGUUGUUUAACUACCUCU  
.((((((((((.....&.....))))))))). -17.30

let-7a ENSRNOG00000016645 2099 nt UTR 2 hits 559 888

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

-----

>ENSRNOG00000016645 hs-let-7a 559 566  
UGAGGUAGUAGGUUGUAUAGUU&CAUUUUAAAUCUGUCUAGGAGUUCUUGUUUACUACCUCU  
.((((((((((..(.....&.....)).))))))))). -19.50

>ENSRNOG00000016645 hs-let-7a 888 895  
UGAGGUAGUAGGUUGUAUAGUU&UGUUUUUAUGCUUAGUUUUCUGUAGAGUUGUUUAACUACCUCU  
.((((((((((..(..(....((....&.....))))))..)).))))). -19.50

miRNA: let-7a

Human predicted target: ENSG00000166106

Mouse predicted target: ENSMUSG00000033453

Rat predicted target: ENSRNOG00000009892

Hs Gene description: ADAMTS-15 PRECURSOR (EC 3.4.24.-) (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 15) (ADAM-TS 15) (ADAM-TS15).

[Source:SWISSPROT;Acc:Q8TE58] NM\_139055

let-7a ENSG00000166106 2000 nt UTR 2 hits 206 1185

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

-----

>ENSG00000166106 hs-let-7a 206 213  
UGAGGUAGUAGGUUGUAUAGUU&CUGGGCAGAGGGAAGCCAGGAACUCCCGCACAGUCUACCUCAG

```

((((((((((...(((((&.....))))))....)))))). -20.00
>ENSG00000166106 hs-let-7a 1185 1192
UGAGGUAGUAGGUUGUAUAGUU&CGUUGCAUCCUAGGCCUAGCUUCUCCACUGUUUGCUACCUCAG
((((((((((...(((((&.....))))))....)))))). -22.50
let-7a ENSMUSG00000033453 5361 nt UTR 2 hits 692 1642
-----1-----1-----
-----
>ENSMUSG00000033453 hs-let-7a 692 699
UGAGGUAGUAGGUUGUAUAGUU&UGGACUGGGCAGGGGAAGUUAACUAAUGCACAGUCUACCUCAU
((((((((((...(((((&.....))))))....)))))). -22.90
>ENSMUSG00000033453 hs-let-7a 1642 1649
UGAGGUAGUAGGUUGUAUAGUU&CAGUUCUCUGGUAGGUAACGGGCUUCAUUGUUUGCUACCUCAG
((((((((((...(((((&.....))))))....)))))). -23.60
let-7a ENSRNOG00000009892 4706 nt UTR 3 hits 194 1084 3012
-----1-----1-----
-----
>ENSRNOG00000009892 hs-let-7a 194 201
UGAGGUAGUAGGUUGUAUAGUU&UGGACUCGGCAGGGGAAGCUAACUAAUGCACAGUCUACCUCAU
((((((((((...(((((&.....))))))....)))))). -22.90
>ENSRNOG00000009892 hs-let-7a 1084 1091
UGAGGUAGUAGGUUGUAUAGUU&CAUCUCUCUGGUAGGUAACGGGGCUCAUUGUUUGCUACCUCAG
((((((((((...(((((&.....))))))....)))))). -22.00
>ENSRNOG00000009892 hs-let-7a 3012 3019
UGAGGUAGUAGGUUGUAUAGUU&CAUCUCUCUGGUAGGUAACGGGGCUCAUUGUUUGCUACCUCAG
((((((((((...(((((&.....))))))....)))))). -22.00

```

miRNA: let-7a

Human predicted target: ENSG00000169635

Mouse predicted target: ENSMUSG00000050240

Rat predicted target: ENSRNOG00000001863

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&AGCCGAGAGGAGGGAAGCCAGGGGUCCAGCCGUCUACCUC
.((((((((((...(((((&.....))))))....)))))). -22.00
>ENSG00000169635 hs-let-7a 543 550
UGAGGUAGUAGGUUGUAUAGUU&CACUGGCGCUGGGACAGUCAGGGUGACCCACCGCCUACCUCU
.((((((((((...(((((&.....))))))....)))))). -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&AGUCUAGCCCUAUGCAUGUGGUGCUGGUGACUAUUCUACCUC  
((((((((((..(((..(((..(((..&.....))))))..))))..))))..)))).. -20.80

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

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

let-7a ENSRNOG0000001863 2000 nt UTR 3 hits 197 511 1139  
-----1-----1-----1-----1-----  
-----

>ENSRNOG0000001863 hs-let-7a 197 204  
UGAGGUAGUAGGUUGUAUAGUU&AGUCUGGCCUCUGCAUGUGGUGCUGGUGACUACUCUACCUC  
((((((((((..(((..(((..(((..&.....))))))..))))..))))..)))).. -20.80

>ENSRNOG0000001863 hs-let-7a 511 518  
UGAGGUAGUAGGUUGUAUAGUU&UAGCUGGCACUGGAACAGUCAGGGUGACCCAUUGCCUACCUCU  
(((((((((((((..(((..(((..(((..&..))))))..))))..))))..)))).. -19.17

>ENSRNOG0000001863 hs-let-7a 1139 1146  
UGAGGUAGUAGGUUGUAUAGUU&UUCACUGAACAUUGAUGGAGAGCCUUCUGACCUUUGCUACCUCU  
(((((((((((((..(((..(((..(((..&..))))))..))))..))))..)))).. -20.00

miRNA: let-7a  
Human predicted target: ENSG00000174498  
Mouse predicted target: ENSMUSG00000032394  
Rat predicted target: ENSRNOG00000013322  
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-----1--1-----1--1-----1--1-----  
-----

>ENSG00000174498 hs-let-7a 452 459  
UGAGGUAGUAGGUUGUAUAGUU&UCAGGAUGGAUUUUUGCUGUUUUGGCUCUCAGCACCUACCUCAG  
((((((((((...(((..(((..(((..&.....))))))..))))..))))..)))).. -22.30

>ENSG00000174498 hs-let-7a 534 541  
UGAGGUAGUAGGUUGUAUAGUU&UCAGCCCCCUUACCCACAGAGCCGAAUGCACUCCUACCUCAA  
((((((((((..(((..(((..(((..&.....))))))..))))..))))..)))).. -20.70

>ENSG00000174498 hs-let-7a 685 692  
UGAGGUAGUAGGUUGUAUAGUU&AGCACUUCCCAUUCCAGAUGUGAAAGAAAUGUCUACCUCAA  
((((((((((..(((..(((..(((..&.....))))))..))))..))))..)))).. -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-----1--1-----1--1-----  
-----  
>ENSMUSG00000032394 hs-let-7a 388 395  
UGAGGUAGUAGGUUGUAUAGUU&CAGGAUGGAUUUUGAGCUGUUGUGACUCUCAGCACCUACCUCAG  
((((((((((...(((((((((&.....))))))..))))..))))). -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&GACCCUCCCCAGCCUCCUUCAUCCUGGCCUAGCCUACCUCU  
..((((((((((((((((((...&.....))))))..))))..))))). -21.40  
let-7a ENSRNOG00000013322 2000 nt UTR 4 hits 470 550 703 788  
-----1--1-----1--1-----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

miRNA: let-7a  
Human predicted target: ENSG00000182541  
Mouse predicted target: ENSMUSG00000020451  
Rat predicted target: ENSRNOG00000019000  
Hs Gene description: LIM DOMAIN KINASE 2 (EC 2.7.1.-) (LIMK-2).  
[Source:SWISSPROT;Acc:P53671] NM\_016733  
let-7a ENSG00000182541 3637 nt UTR 2 hits 1098 2572  
-----1-----1-----1-----1-----

-----1-----1-----1-----1-----  
>ENSG00000182541 hs-let-7a 1098 1105  
UGAGGUAGUAGGUUGUAUAGUU&AGAGAGAUAGCUCCUGAGCUGGGCCAUCUGACUUCUACCUC  
..((((((((((((((((((...((...&.....))))))..))))..))))). -21.90  
>ENSG00000182541 hs-let-7a 2572 2579  
UGAGGUAGUAGGUUGUAUAGUU&GCCUUUAACAAGGGCUGUCUAGAUUUUCAUUUUUAACUACCUC  
..((((((((((...(((((((((&.....))))))..))))..))))). -17.90  
let-7a ENSMUSG00000020451 3482 nt UTR 2 hits 140 976

-----1-----1-----  
-----  
>ENSMUSG00000020451 hs-let-7a 140 147  
UGAGGUAGUAGGUUGUAUAGUU&GAAGGCUUGCUUAGAGGCACAACAAGCCAUCCCUACUACCUC  
.(((((((((((((((((.(.(((&.....)))))).)).))))))))). -23.80  
>ENSMUSG00000020451 hs-let-7a 976 983  
UGAGGUAGUAGGUUGUAUAGUU&AGGAAAAGAACACCCUGAGCUGGGCCUUGUAGAUUCUACCUCU  
.(((((((((((((((((((((.(.(((&.....)))))).)).))))))))). -20.30  
let-7a ENSRNOG00000019000 4867 nt UTR 2 hits 958 1727  
-----1-----1-----

-----  
>ENSRNOG00000019000 hs-let-7a 958 965  
UGAGGUAGUAGGUUGUAUAGUU&AUUGACGGCUUGCUUAGAAGCAGAACAAGCCAUCCCUACUACCUC  
.(((((((((((((((((((((.(.(((&.....)))))).)).))))))))). -18.30  
>ENSRNOG00000019000 hs-let-7a 1727 1734  
UGAGGUAGUAGGUUGUAUAGUU&AUGAAGAGAGCUCCUGAGCUGGACCUUGUAGAGUCUACCUCU  
.(((((((((((((((((((((.(.(((&.....)))))).)).))))))))). -20.70

miRNA: let-7b

Human predicted target: ENSG00000022567

Mouse predicted target: ENSMUSG00000036649

Rat predicted target: ENSRNOG00000007818

let-7b ENSG00000022567 7016 nt UTR 2 hits 1056 5277  
-----1-----  
-----1-----

-----  
>ENSG00000022567 hs-let-7b 1056 1063  
UGAGGUAGUAGGUUGUGUGGUU&CCAGCGGGCCUGCCUCCCAAGUCCCGCCGCAAGGCUACCUCGG  
(((((((((((((((((((((.(.(((&.....)))))).)).))))))))). -25.80  
>ENSG00000022567 hs-let-7b 5277 5284  
UGAGGUAGUAGGUUGUGUGGUU&GCCUGUUCUGGUGGAGCCGGGUGGGGCCCGCGGUCUACCUCU  
.(((((((((((((((((((((.(.(((&.....)))))).)).))))))))). -22.80  
let-7b ENSMUSG00000036649 2000 nt UTR 2 hits 896 952  
-----1-----1-----

-----  
>ENSMUSG00000036649 hs-let-7b 896 903  
UGAGGUAGUAGGUUGUGUGGUU&CAGGUGAGCAUCGGCUCGAGUCCUGCUGCACGGCUACCUCGA  
(((((((((((((((((((((.(.(((&.....)))))).)).))))))))). -25.40  
>ENSMUSG00000036649 hs-let-7b 952 959  
UGAGGUAGUAGGUUGUGUGGUU&GUGGCAUCAGAGCAGGGCGCGGGAAGGGGCCGAGCCUACCUC  
.(((((((((((((((((((((.(.(((&.....)))))).)).))))))))). -21.01  
let-7b ENSRNOG00000007818 2000 nt UTR 2 hits 892 948  
-----1-----1-----

-----  
>ENSRNOG00000007818 hs-let-7b 892 899



UGAGGUAGUAGGUUGUGUGGUU&CCAGGUGAGCAUUGGCUCCCAAUCCUGCUGCAAGGCUACCUCGA  
((((((((((.....((..(&.....))..))..)))))))). -22.90  
>ENSRNOG0000007818 hs-let-7b 948 955  
UGAGGUAGUAGGUUGUGUGGUU&UGGCAUCAGAGCAGGGCACGUGAAGGUGCCGGGGCCUACCUC  
((((((((((.....((..(&.....))..))..)))))))). -20.81

miRNA: let-7b

Human predicted target: ENSG00000082153  
Mouse predicted target: ENSMUSG00000026033  
Rat predicted target: ENSRNOG00000013977  
Hs Gene description: BASIC LEUCINE ZIPPER AND W2 DOMAINS 1; BASIC LEUCINE-  
ZIPPER PROTEIN BZAP45. [Source:RefSeq;Acc:NM\_014670]  
let-7b ENSG00000082153 2000 nt UTR 2 hits 84 251  
---1-----1-----

>ENSG00000082153 hs-let-7b 84 91  
UGAGGUAGUAGGUUGUGUGGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUACAUCUCCUACCUC  
((((((((((.....((..(&.....))..))..)))))))). -20.80  
>ENSG00000082153 hs-let-7b 251 258  
UGAGGUAGUAGGUUGUGUGGUU&GAAUCUAAUGUUGCAUUGUCUUUCAGUUAUCUUCUACCUC  
((((((((((.....((..(&.....))..))..)))))))). -19.86  
let-7b ENSMUSG00000026033 2413 nt UTR 2 hits 84 252  
---1-----1-----

>ENSMUSG00000026033 hs-let-7b 84 91  
UGAGGUAGUAGGUUGUGUGGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUACAUCUCCUACCUC  
((((((((((.....((..(&.....))..))..)))))))). -20.80  
>ENSMUSG00000026033 hs-let-7b 252 259  
UGAGGUAGUAGGUUGUGUGGUU&UUGAAUCUGAUGUUGCAUUGGUUUUCAGUUACCUUCUACCUC  
((((((((((.....((..(&.....))..))..)))))))). -22.62  
let-7b ENSRNOG00000013977 2000 nt UTR 2 hits 760 920  
-----1-----1-----

>ENSRNOG00000013977 hs-let-7b 760 767  
UGAGGUAGUAGGUUGUGUGGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUACAUCUCCUACCUC  
((((((((((.....((..(&.....))..))..)))))))). -20.80  
>ENSRNOG00000013977 hs-let-7b 920 927  
UGAGGUAGUAGGUUGUGUGGUU&ACGGAAGCUGGCGCUGCACUGGUCUUCAGUUCCUCUACCUC  
((((((((((.....((..(&.....))..))..)))))))). -24.34

miRNA: let-7b

Human predicted target: ENSG00000100823  
Mouse predicted target: ENSMUSG00000035960  
Rat predicted target: ENSRNOG00000009663

Hs Gene description: DNA-(APURINIC OR APYRIMIDINIC SITE) LYASE (EC 4.2.99.18) (AP ENDONUCLEASE 1) (APEX NUCLEASE) (APEN) (REF-1 PROTEIN). [Source:SWISSPROT;Acc:P27695] NM\_080649

let-7b ENSG00000100823 2259 nt UTR 2 hits 911 1250

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

>ENSG00000100823 hs-let-7b 911 918  
UGAGGUAGUAGGUUGUGUGGUU&GCCCCUCCAAACCUAAGUGAGGGCCUGGUUCCUCCUACCUCU  
.(((((((.(.....(((&.....))))).)))..))))). -22.00

>ENSG00000100823 hs-let-7b 1250 1257  
UGAGGUAGUAGGUUGUGUGGUU&GAAGAAAAGAAAGAUGGGGUUAAUGUUGGUCUCCACUACCUC  
.(((((((.(.....&.....))))).)))..))))). -18.70

let-7b ENSMUSG00000035960 2165 nt UTR 2 hits 308 884

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

>ENSMUSG00000035960 hs-let-7b 308 315  
UGAGGUAGUAGGUUGUGUGGUU&CAGAUGAGUCCCUAACCUCUCCCAAGACAGUGACCCUACCUCAG  
(((((((.(.....(((&.....))))).)))..))))). -24.10

>ENSMUSG00000035960 hs-let-7b 884 891  
UGAGGUAGUAGGUUGUGUGGUU&UCCAAACAUAAGGAAGGAAGGGACUGCUUCCUCCUACCUCU  
.(((((((.(.....(((&.....))))).)))..))))). -23.70

let-7b ENSRNOG00000009663 2102 nt UTR 2 hits 246 734

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

>ENSRNOG00000009663 hs-let-7b 246 253  
UGAGGUAGUAGGUUGUGUGGUU&CAGAUGAAUCCUGACCUCUCCCAAGACAGUGACCCUACCUCAG  
(((((((.(.....(((&.....))))).)))..))))). -24.10

>ENSRNOG00000009663 hs-let-7b 734 741  
UGAGGUAGUAGGUUGUGUGGUU&ACCCUCCAAACCUAAGUCAGGGGCUGGUUCCUCCUACCUCU  
.(((((((.(.....(((&.....))))).)))..))))). -20.95

miRNA: let-7b

Human predicted target: ENSG00000103200

Mouse predicted target: ENSMUSG00000024177

Rat predicted target: ENSRNOG00000020323

Hs Gene description: NUCLEOSIDE DIPHOSPHATE KINASE, MITOCHONDRIAL PRECURSOR (EC 2.7.4.6) (NDP KINASE, MITOCHONDRIAL) (NDK) (NM23-H4).

[Source:SWISSPROT;Acc:O00746] NM\_005009

let-7b ENSG00000103200 2000 nt UTR 1 hits 44

-----1-----

>ENSG00000103200 hs-let-7b 44 51  
UGAGGUAGUAGGUUGUGUGGUU&CUGCCCUUACCACCCCAUCCCCACGCAGGACCAACUACCUC  
.(((((((.(.....(((&.....))))).)))..))))). -31.50

let-7b ENSMUSG00000024177 2469 nt UTR 1 hits 1897

-----1-----

>ENSMUSG00000024177 hs-let-7b 1897 1904  
UGAGGUAGUAGGUUGUGUGGUU&ACUGCCUUCUGCACUUCAGGUCUACCCAUGACCUACUACCUCU  
.((((((((((((((...(((&.....)))))))).))))). -35.10  
let-7b ENSRNOG00000020323 2233 nt UTR 2 hits 258 2000

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

>ENSRNOG00000020323 hs-let-7b 258 265  
UGAGGUAGUAGGUUGUGUGGUU&UAAAUGGAAAGAGGGUCGCCCAUCAACCACCAACUACCUCU  
.((((((((((((((...(((&.....)))))))).))))). -26.90  
>ENSRNOG00000020323 hs-let-7b 2000 2007  
UGAGGUAGUAGGUUGUGUGGUU&AAAGGAAACCGAAUUC AACUGGCCGAGCACCCUCUACCUCU  
.((((((((((((((...(((&.....)))))))).))))). -26.70

miRNA: let-7b

Human predicted target: ENSG00000119906  
Mouse predicted target: ENSMUSG00000036097  
Rat predicted target: ENSRNOG00000014489  
Hs Gene description: C10ORF6. [Source:RefSeq;Acc:NM\_018121] NM\_144592  
let-7b ENSG00000119906 2862 nt UTR 2 hits 1326 1560

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

>ENSG00000119906 hs-let-7b 1326 1333  
UGAGGUAGUAGGUUGUGUGGUU&UUGCGGUUUGAGAGGCAAGAAAUAACUUCUACCUCU  
.((((((((((((((...(((&.....)))))))).))))). -22.60  
>ENSG00000119906 hs-let-7b 1560 1567  
UGAGGUAGUAGGUUGUGUGGUU&UGUUGUUUACUGGUAAGAAUAUUAUCUUGAUACUACCUCU  
.((((((((((((((...(((&.....)))))))).))))). -19.00  
let-7b ENSMUSG00000036097 4668 nt UTR 2 hits 1314 1542

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

>ENSMUSG00000036097 hs-let-7b 1314 1321  
UGAGGUAGUAGGUUGUGUGGUU&GAGAGGAGAAAUAAGUUCUGAGAGCUAACUCUUCUACCUCU  
.((((((((((((((...(((&.....)))))))).))))). -20.40  
>ENSMUSG00000036097 hs-let-7b 1542 1549  
UGAGGUAGUAGGUUGUGUGGUU&GUGUUGAGUUACUGGUAAGAAUAUUGUCUUGAUGCUACCUCU  
.((((((((((((((...(((&.....)))))))).))))). -18.40  
let-7b ENSRNOG00000014489 4549 nt UTR 2 hits 1194 1424

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

>ENSRNOG00000014489 hs-let-7b 1194 1201  
UGAGGUAGUAGGUUGUGUGGUU&UUGAGAGGAGAAAUAAGUUCUGAGAGCUAACUUCUACCUCU  
.((((((((((((((...(((&.....)))))))).))))). -21.10  
>ENSRNOG00000014489 hs-let-7b 1424 1431  
UGAGGUAGUAGGUUGUGUGGUU&GUGUUGAGUUUACUGGUAAGAAUAUUGUCUUGAUGCUACCUCU  
.((((((((((((((...(((&.....)))))))).))))). -18.40



```

>ENSG00000135912 hs-let-7b      45      52
UGAGGUAGUAGGUUGUGUGGUU&CUCCAAAAGCCUCUGCCCAGGAGCAUGGGCAUCAGCUACCUCAC
((((((((((((((...((..&..))..)))))).....)))))))). -24.34
>ENSG00000135912 hs-let-7b      983      990
UGAGGUAGUAGGUUGUGUGGUU&CAAACCUCAGACUAAACUCUUGUACUGAACUGAUUCUACCUC
.((((((((((..((((((((..((..&.....))..))))..))))..))))..))))). -20.10
let-7b      ENSMUSG00000033257  2000 nt UTR      3 hits 617 1137 1899
-----1-----1-----
-1----
>ENSMUSG00000033257 hs-let-7b      617      624
UGAGGUAGUAGGUUGUGUGGUU&UUUGUUUAUAGUGGUCUCUGCCAACAUCGCUCAUGACUACCUCAA
((((((((((..((((((((..((..&.....))..))))..))))..))))..))))). -26.90
>ENSMUSG00000033257 hs-let-7b      1137      1144
UGAGGUAGUAGGUUGUGUGGUU&UGAGCUCGUGACUGGUCCUGCACAGGAGCACUCAGCUACCUCAA
((((((((((((((((((((..((..&.....))..))))..))))..))))..))))). -26.10
>ENSMUSG00000033257 hs-let-7b      1899      1906
UGAGGUAGUAGGUUGUGUGGUU&GCUUCUCAUCUCUGACAGCUAAUACUCAGUGGCAUCUACCUC
.((((((((((..((..((..((..&.....))..))..))..))..))))..))))). -20.40
let-7b      ENSRNOG00000017129  2000 nt UTR      2 hits 883 1581
-----1-----1-----
-----
>ENSRNOG00000017129 hs-let-7b      883      890
UGAGGUAGUAGGUUGUGUGGUU&UGAGCCCAUGACUGGUCCUACACAGGAGCACUCAGCUACCUCAA
((((((((((((((((((((..&.....))..))))..))))..))))..))))). -27.00
>ENSRNOG00000017129 hs-let-7b      1581      1588
UGAGGUAGUAGGUUGUGUGGUU&GCUUCUCAUCUCUGACAGUAAUACUCAACUGCAUCUACCUC
.((((((((((..((((((((..((...&.....))..))))..))))..))))..))))). -23.70

```

miRNA: let-7b

Human predicted target: ENSG00000140548

Mouse predicted target: ENSMUSG00000048897

Rat predicted target: ENSRNOG00000014278

let-7b ENSG00000140548 2964 nt UTR 2 hits 528 1859

```

-----1-----
1-----
>ENSG00000140548 hs-let-7b      528      535
UGAGGUAGUAGGUUGUGUGGUU&CUGUCGACGGACCGCCAGGCAGGGCACUCUGCCUUCUACCUC
.((((((((((..((((((((..((..&.....))..))))..))))..))))..))))). -28.00
>ENSG00000140548 hs-let-7b      1859      1866
UGAGGUAGUAGGUUGUGUGGUU&UUCUCCUGCUGAGCAGAAGGCAUCAUCCCGCAACUACCUCU
.((((((((((((..((((((((..((..&.....))..))))..))))..))))..))))). -22.80
let-7b      ENSMUSG00000048897  2000 nt UTR      2 hits 519 1756
-----1-----1-----
-----
>ENSMUSG00000048897 hs-let-7b      519      526
UGAGGUAGUAGGUUGUGUGGUU&CUAUCACUCAAGAGCCAGGCAGGGCACUCUGCCUUCUACCUC
.((((((((((..((((((((..((..&.....))..))))..))))..))))..))))). -28.60

```

>ENSMUSG00000048897 hs-let-7b 1756 1763  
UGAGGUAGUAGGUUGUGUGGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUGCAAACUACCUCU  
.((((((((((..((..((((((&.....)))))).))..))..)))))))). -22.80  
let-7b ENSRNOG00000014278 4055 nt UTR 3 hits 550 1647 2696

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

>ENSRNOG00000014278 hs-let-7b 550 557  
UGAGGUAGUAGGUUGUGUGGUU&CUGUCACUCAAGAGCCAGGCAGGGCACUCUGCCUUCUACCUC  
.((((((((((((((((&.....)))))).))..))..)))))))). -28.60

>ENSRNOG00000014278 hs-let-7b 1647 1654  
UGAGGUAGUAGGUUGUGUGGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUGCAAACUACCUCU  
.((((((((((..((..((((((&.....)))))).))..))..)))))))). -22.80

>ENSRNOG00000014278 hs-let-7b 2696 2703  
UGAGGUAGUAGGUUGUGUGGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUGCAAACUACCUCU  
.((((((((((..((..((((((&.....)))))).))..))..)))))))). -22.80

miRNA: let-7b  
Human predicted target: ENSG00000148200  
Mouse predicted target: ENSMUSG00000026752  
Rat predicted target: ENSRNOG00000013232  
Hs Gene description: ORPHAN NUCLEAR RECEPTOR NR6A1 (GERM CELL NUCLEAR  
FACTOR) (GCNF) (RETINOID RECEPTOR-RELATED TESTIS SPECIFIC RECEPTOR) (RTR).  
[Source:SWISSPROT;Acc:Q15406] NM\_033335  
let-7b ENSG00000148200 2000 nt UTR 3 hits 388 1359 1387

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

>ENSG00000148200 hs-let-7b 388 395  
UGAGGUAGUAGGUUGUGUGGUU&UAAGAUGACUAAUUAUGUUGACAAAGAUGACUACCUCAA  
((((((((((..((((((((&.....)))))).))..))..)))))))). -22.21

>ENSG00000148200 hs-let-7b 1359 1366  
UGAGGUAGUAGGUUGUGUGGUU&GCCAGAAGCACCUGGAAGGGAAGGGGGCUUUAACUACCUCAG  
((((((((((((((((&.....)))))).))..))..)))))))). -24.19

>ENSG00000148200 hs-let-7b 1387 1394  
UGAGGUAGUAGGUUGUGUGGUU&CUUUAACUACCUCAGGUUCCUAAUGGCCCGGCUGCUACCUCU  
.((((((((((..((..((((((&.....)))))).))..))..)))))))). -25.20

let-7b ENSMUSG00000026752 6457 nt UTR 8 hits 101 371 794 1228 3827  
4135 4145 4310  
----1-----1-----1-----1-----1-----  
-----1-----2-----1-----

>ENSMUSG00000026752 hs-let-7b 101 108  
UGAGGUAGUAGGUUGUGUGGUU&AAGAGCCAGAGACCAAGAUGGAGACUGUGGAGCAGCUACCUC  
.((((((((((..((..((((((&.....)))))).))..))..)))))))). -23.90

>ENSMUSG00000026752 hs-let-7b 371 378  
UGAGGUAGUAGGUUGUGUGGUU&CUAGAUGAGUAAUUAUGUUGACAAAGACAACUACCUCAA

(((((((((...&.....)))))).....))))). -22.81  
>ENSMUSG00000026752 hs-let-7b 794 801  
UGAGGUAGUAGGUUGUGUGGUU&GAUCUACCAAGGCCUACCUUCUUCAGACCCCAUCCCUACCUCU  
..... -23.70  
>ENSMUSG00000026752 hs-let-7b 1228 1235  
UGAGGUAGUAGGUUGUGUGGUU&AGCCAGAAAGACCUAGAAAGGAAAGGGGCAUUAACUACCUCAU  
..... -25.25  
>ENSMUSG00000026752 hs-let-7b 3827 3834  
UGAGGUAGUAGGUUGUGUGGUU&UGUUUUUACUCAAAUUUCCAUGGGGGAAAAAAGACUACCUCU  
..... -19.50  
>ENSMUSG00000026752 hs-let-7b 4135 4142  
UGAGGUAGUAGGUUGUGUGGUU&AUUUCAGGGACUCUGAUGGCAAGUGCAUCAUGAACCUACCUCAG  
..... -19.30  
>ENSMUSG00000026752 hs-let-7b 4145 4152  
UGAGGUAGUAGGUUGUGUGGUU&CUCUGAUGGCAAGUGCAUCAUGAACCUACCUCAGGCCUACCUC  
..... -24.30  
>ENSMUSG00000026752 hs-let-7b 4310 4317  
UGAGGUAGUAGGUUGUGUGGUU&AGUUGGCGGGCUCUGCAGGCUCUCAGGCCUCUGCUACCUC  
..... -26.90  
let-7b ENSRNOG00000013232 5506 nt UTR 9 hits 374 774 1223 2875 3184  
3194 3359 3736 4193

-----1-----1-----1-----  
-----1-----2-----1-----  
-1-----1-----  
>ENSRNOG00000013232 hs-let-7b 374 381  
UGAGGUAGUAGGUUGUGUGGUU&CUAGGUGACUAUUUCCAUAUGUUGACAAAGACAACUACCUCAG  
..... -22.41  
>ENSRNOG00000013232 hs-let-7b 774 781  
UGAGGUAGUAGGUUGUGUGGUU&UAGCUGCCUGGUUUCUGACCCAGGUCUACCAGGCCUACCUC  
..... -21.00  
>ENSRNOG00000013232 hs-let-7b 1223 1230  
UGAGGUAGUAGGUUGUGUGGUU&AGCCAGAAGCACCUAGAAGGGAAAGGGGCUUUAACUACCUCAU  
..... -24.55  
>ENSRNOG00000013232 hs-let-7b 2875 2882  
UGAGGUAGUAGGUUGUGUGGUU&UGUUUUUAUCAAGUUUCCAUGGGGGGAAAAAAGACUACCUCU  
..... -18.90  
>ENSRNOG00000013232 hs-let-7b 3184 3191  
UGAGGUAGUAGGUUGUGUGGUU&UUGGAUUUCAGGGACUCUGAUGGCAAGUGGUGAACCUACCUCAG  
..... -19.10  
>ENSRNOG00000013232 hs-let-7b 3194 3201  
UGAGGUAGUAGGUUGUGUGGUU&GGGACUCUGAUGGCAAGUGGUGAACCUACCUCAGGCCUACCUC  
..... -24.30  
>ENSRNOG00000013232 hs-let-7b 3359 3366  
UGAGGUAGUAGGUUGUGUGGUU&AGUUGGCGGGCUCUGCAGGCUCUCAGGCCUCUGCUACCUC  
..... -26.90  
>ENSRNOG00000013232 hs-let-7b 3736 3743  
UGAGGUAGUAGGUUGUGUGGUU&UAGCUGCCUGGUUUCUGACCCAGGUCUACCAGGCCUACCUC  
..... -21.00

>ENSRNOG00000013232 hs-let-7b 4193 4200  
UGAGGUAGUAGGUUGUGUGGUU&AGCCAGAAGCACCUAGAAGGGAAAGGGCCUUUAAACUACCUCAU  
((((((((((((((..(((((&)))))).)...))))). -24.55

miRNA: let-7b

Human predicted target: ENSG00000156804  
Mouse predicted target: ENSMUSG00000022358  
Rat predicted target: ENSRNOG00000006738  
Hs Gene description: F-BOX ONLY PROTEIN 32 (MUSCLE ATROPHY F-BOX PROTEIN)  
(MAFBX) (ATROGIN- 1). [Source:SWISSPROT;Acc:Q969P5] NM\_148177  
let-7b ENSG00000156804 2267 nt UTR 1 hits 560

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

>ENSG00000156804 hs-let-7b 560 567  
UGAGGUAGUAGGUUGUGUGGUU&CAGAGCCUUACCCUACAGAGAUACCACACAAUGGUCUACCUCU  
((((((((((((((..(((((&.....))))))))))))). -30.90  
let-7b ENSMUSG00000022358 3387 nt UTR 1 hits 541

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

>ENSMUSG00000022358 hs-let-7b 541 548  
UGAGGUAGUAGGUUGUGUGGUU&UAGGUCCUUUACCUAUGAAGAUGCCACACAAUGGUCUACCUCU  
((((((((((((((..(((((&.....))))))))))))). -31.20  
let-7b ENSRNOG00000006738 2003 nt UTR 1 hits 544

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

>ENSRNOG00000006738 hs-let-7b 544 551  
UGAGGUAGUAGGUUGUGUGGUU&UGAGUCCUUAGCCUAUGAAGAUGCCACACAAUGGUCUACCUCU  
((((((((((((((..(((((&.....))))))))))))). -31.20

miRNA: let-7b

Human predicted target: ENSG00000163935  
Mouse predicted target: ENSMUSG00000006527  
Rat predicted target: ENSRNOG00000016645  
Hs Gene description: SCM-RELATED GENE CONTAINING FOUR MBT DOMAINS.  
[Source:RefSeq;Acc:NM\_016329]

let-7b ENSG00000163935 2000 nt UTR 2 hits 604 944

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

>ENSG00000163935 hs-let-7b 604 611  
UGAGGUAGUAGGUUGUGUGGUU&AUUUUAAAUCGAUUCUUAGGAGUCCUUUGUUUACUACCUCU  
((((((((((((((..(.....((..&.....))))))))))))). -20.60

>ENSG00000163935 hs-let-7b 944 951  
UGAGGUAGUAGGUUGUGUGGUU&UUAUUUUGUGUUUACUUUCUCUAGAGUUGUUUGUCUACCUCU  
((((((((((((((..(((((&.....))))))))))))). -16.60  
let-7b ENSMUSG00000006527 2000 nt UTR 2 hits 578 904



-----1-----1-----  
-----  
>ENSMUSG00000006527 hs-let-7b 578 585  
UGAGGUAGUAGGUUGUGUGGUU&CAUUUUAAAUCUAUUCUAGGAGUCCUUGUUUACUACCUCU  
.((((((((((..(....(..&.....)).)..)))))))). -22.40  
>ENSMUSG00000006527 hs-let-7b 904 911  
UGAGGUAGUAGGUUGUGUGGUU&UAUUUU AUGUUUAUUCUUCUGUUAGAGUUGUUUAACUACCUCU  
.((((((((.....&.....)).))))). -17.30  
let-7b ENSRNOG00000016645 2099 nt UTR 2 hits 559 888

-----1-----1-----  
-----  
>ENSRNOG00000016645 hs-let-7b 559 566  
UGAGGUAGUAGGUUGUGUGGUU&CAUUUUAAAUCUGUCUAGGAGUCCUUGUUUACUACCUCU  
.((((((((((..(....(..&.....)).)..)))))))). -20.60  
>ENSRNOG00000016645 hs-let-7b 888 895  
UGAGGUAGUAGGUUGUGUGGUU&UGUUUU AUGCUUAGUUUCUGUAGAGUUGUUUAACUACCUCU  
.((((((((((..(....(..&.....)).)..)))))))). -17.80

miRNA: let-7b  
Human predicted target: ENSG00000166106  
Mouse predicted target: ENSMUSG00000033453  
Rat predicted target: ENSRNOG00000009892  
Hs Gene description: ADAMTS-15 PRECURSOR (EC 3.4.24.-) (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 15) (ADAM-TS 15) (ADAM-TS15).  
[Source:SWISSPROT;Acc:Q8TE58] NM\_139055  
let-7b ENSG00000166106 2000 nt UTR 2 hits 206 1185

-----1-----1-----  
-----  
>ENSG00000166106 hs-let-7b 206 213  
UGAGGUAGUAGGUUGUGUGGUU&CUGGGCAGAGGGAAGCCAGGAACUCCCGCACAGUCUACCUCAG  
((((((((((..(....((((((..&.....)))))))).)))))). -27.60  
>ENSG00000166106 hs-let-7b 1185 1192  
UGAGGUAGUAGGUUGUGUGGUU&CGUUGCAUCCUAGGCCUAGCUUCUCCACUGUUUGCUACCUCAG  
((((((((((..(....((((((..&.....)))))))).)))))). -26.70  
let-7b ENSMUSG00000033453 5361 nt UTR 2 hits 692 1642

-----1-----1-----  
-----  
>ENSMUSG00000033453 hs-let-7b 692 699  
UGAGGUAGUAGGUUGUGUGGUU&UGGACUGGGCAGGGGAAGUUAAUGCACAGUCUACCUCAU  
((((((((((..(....((((((..&.....)))))))).)))))). -22.50  
>ENSMUSG00000033453 hs-let-7b 1642 1649  
UGAGGUAGUAGGUUGUGUGGUU&CAGUUCUCUGGUAGGUAAACGGGCUUCAUUGUUUGCUACCUCAG  
((((((((((..(....((((((..&.....)))))))).)))))). -26.50  
let-7b ENSRNOG00000009892 4706 nt UTR 3 hits 194 1084 3012

-----1-----1-----1-----1-----  
-----1-----1-----1-----1-----  
-----1-----1-----1-----1-----  
>ENSRNOG00000009892 hs-let-7b 194 201  
UGAGGUAGUAGGUUGUGUGGUU&UGGACUCGGCAGGGGAAGCUAACUAAUGCACAGUCUACCUCAU  
((((((((.....(((((((((&.....)))))))).)))))))). -22.50  
>ENSRNOG00000009892 hs-let-7b 1084 1091  
UGAGGUAGUAGGUUGUGUGGUU&CAUCUCUCUGGUAGGUAAACGGGGCUCAUUGUUUGCUACCUCAG  
((((((((((((.....(((((((((&.....)))))))).)))))))). -25.30  
>ENSRNOG00000009892 hs-let-7b 3012 3019  
UGAGGUAGUAGGUUGUGUGGUU&CAUCUCUCUGGUAGGUAAACGGGGCUCAUUGUUUGCUACCUCAG  
((((((((((((((((.....(((((((((&.....)))))))).)))))))). -25.30

miRNA: let-7b

Human predicted target: ENSG00000169635

Mouse predicted target: ENSMUSG00000050240

Rat predicted target: ENSRNOG00000001863

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

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

-----1-----1-----1-----1-----  
-----1-----1-----1-----1-----  
>ENSG00000169635 hs-let-7b 211 218  
UGAGGUAGUAGGUUGUGUGGUU&AGCCGAGAGGAGGAAGCCAGGGGUCCCAGCCCGUCUACCUCC  
.((((((((.....(((((((((&.....)))))))).)))))))). -25.30  
>ENSG00000169635 hs-let-7b 543 550  
UGAGGUAGUAGGUUGUGUGGUU&CACUGGCGCUGGGACAGUCAGGGUGACCCACCGCCUACCUCU  
.((((((((.....(((((((((&.....)))))))).)))))))). -23.70  
>ENSG00000169635 hs-let-7b 1158 1165  
UGAGGUAGUAGGUUGUGUGGUU&CCUCGCUGAACAAGGUGGAGACUUCUGACCUUUUGCUACCUCU  
.((((((((((((.....(((((((((&.....)))))))).)))))))). -22.10  
let-7b ENSMUSG00000050240 2000 nt UTR 3 hits 307 635 1286

-----1-----1-----1-----1-----  
-----1-----1-----1-----1-----  
>ENSMUSG00000050240 hs-let-7b 307 314  
UGAGGUAGUAGGUUGUGUGGUU&AGUCUAGCCCUAUGCAUGUGGUGCUGGUGACUAUUCUACCUCC  
.((((((((.....(((((((((&.....)))))))).)))))))). -19.50  
>ENSMUSG00000050240 hs-let-7b 635 642  
UGAGGUAGUAGGUUGUGUGGUU&UAGCUGGCACUGGAACAGUCAGGGUGACCCAUUGCCUACCUCU  
.((((((((.....(((((((((&.....)))))))).)))))))). -21.70  
>ENSMUSG00000050240 hs-let-7b 1286 1293  
UGAGGUAGUAGGUUGUGUGGUU&CUCACUGAACAUGGUGGGGAGCCUUCUGACCUUUUGCUACCUCU  
.((((((((((((.....(((((((((&.....)))))))).)))))))). -21.64  
let-7b ENSRNOG00000001863 2000 nt UTR 3 hits 197 511 1139

-----1-----1-----1-----1-----  
-----1-----1-----1-----1-----  
>ENSRNOG00000001863 hs-let-7b 197 204

UGAGGUAGUAGGUUGUGUGGUU&AGUCUGGCCUCUGCAUGUGGUGCUGGUGACUACUCUACCUCC  
.(((((((...(((((((...&.....))))))...)))))))). -20.10  
>ENSRNOG0000001863 hs-let-7b 511 518  
UGAGGUAGUAGGUUGUGUGGUU&UAGCUGGCACUGGAACAGUCAGGGUGACCCAUGCCUACCUCU  
.(((((((...(((...(((...&.....))))))...)))))))). -21.70  
>ENSRNOG0000001863 hs-let-7b 1139 1146  
UGAGGUAGUAGGUUGUGUGGUU&UUCACUGAACAUGAUGGAGGCCUUCUGACCUUUGCUACCUCU  
.(((((((...(((...(((...&.....))))))...)))))))). -21.64

miRNA: let-7b

Human predicted target: ENSG00000173264

Mouse predicted target: ENSMUSG00000024958

Rat predicted target: ENSRNOG00000021145

Hs Gene description: CHROMOSOME 11 HYPOTHETICAL PROTEIN ORF4.

[Source:RefSeq;Acc:NM\_020155]

let-7b ENSG00000173264 2126 nt UTR 2 hits 82 351

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

>ENSG00000173264 hs-let-7b 82 89  
UGAGGUAGUAGGUUGUGUGGUU&AUGACCUGCCACCUCUGCUUCCACACCGGAGCCAGCUACCUCU  
.(((((((...(((((((...&.....))))))...)))))))). -31.30

>ENSG00000173264 hs-let-7b 351 358  
UGAGGUAGUAGGUUGUGUGGUU&UGUUCUCAAGCUCUCCUGGCCAGAAUUGCCCCACUACCUCU  
.(((((((...(((...(((...&.....))))))...)))))))). -24.50  
let-7b ENSMUSG00000024958 2000 nt UTR 1 hits 895

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

>ENSMUSG00000024958 hs-let-7b 895 902  
UGAGGUAGUAGGUUGUGUGGUU&AUGACCUGCCACCUCUGCUUCCACACUGGAGCCGGCUACCUCU  
.(((((((...(((((((...&.....))))))...)))))))). -31.30  
let-7b ENSRNOG00000021145 2000 nt UTR 1 hits 256

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

>ENSRNOG00000021145 hs-let-7b 256 263  
UGAGGUAGUAGGUUGUGUGGUU&AUGACCUGCCACCUCUGCUUCCACACUGGAGCCAGCUACCUCU  
.(((((((...(((((((...&.....))))))...)))))))). -31.30

miRNA: let-7b

Human predicted target: ENSG00000174498

Mouse predicted target: ENSMUSG00000032394

Rat predicted target: ENSRNOG00000013322

Hs Gene description: SIMILAR TO PUTATIVE NEURONAL CELL ADHESION MOLECULE.

[Source:SPTREMBL;Acc:Q8IVU1]

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

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

```

>ENSG00000174498 hs-let-7b      452      459
UGAGGUAGUAGGUUGUGUGGUU&UCAGGAUGGAUUUUUGCUGUUUUGGCUCUCAGCACCUACCUCAG
((((((((...(((.(.(((&.....))))))..)))))))). -22.60
>ENSG00000174498 hs-let-7b      534      541
UGAGGUAGUAGGUUGUGUGGUU&UCAGCCCCCUUACCCCACAGAGCCCGAAUGCACUCCUACCUCAA
((((((((...(((.(.(((&.....))))))..))))..)))))))). -27.42
>ENSG00000174498 hs-let-7b      685      692
UGAGGUAGUAGGUUGUGUGGUU&AGCACUUCCCCAUUUCCAGAUGUGAAAGAAAUGUCUACCUCAA
((((((((...(((.(.(((&.....))))))..))))..)))))))). -20.45
>ENSG00000174498 hs-let-7b      762      769
UGAGGUAGUAGGUUGUGUGGUU&GACCUGCCUCCCCGCCCUCCUGCCCACAGCCCACCUACCUCU
.((((((((...(((.(.(((&.....))))))..))))))..)))))))). -30.20
let-7b      ENSMUSG00000032394  2523 nt UTR      4 hits 388 468 633 714
-----1--1-----1--1-----

```

```

>ENSMUSG00000032394 hs-let-7b      388      395
UGAGGUAGUAGGUUGUGUGGUU&CAGGAUGGAUUUUUGAGCUGUUGUGACUCUCAGCACCUACCUCAG
((((((((...(((.(.(((&.....))))))..))))..)))))))). -23.10
>ENSMUSG00000032394 hs-let-7b      468      475
UGAGGUAGUAGGUUGUGUGGUU&CCUCCGCCUCUACCCCACAGAGCCCGAAAGCACUCCUACCUCAA
((((((((...(((.(.(((&.....))))))..))))..)))))))). -27.42
>ENSMUSG00000032394 hs-let-7b      633      640
UGAGGUAGUAGGUUGUGUGGUU&ACCACUGUCCCAACUCCAAGUGUGAAAGAAACUGUCUACCUCAG
((((((((((((((((((.(.(((&))))))..))))))..))))))..)))))))). -23.42
>ENSMUSG00000032394 hs-let-7b      714      721
UGAGGUAGUAGGUUGUGUGGUU&GACCUCUCCCCAGCCUCCUUCAUCCUGGCCUAGCCUACCUCU
.((((((((((((((((((.(.(((&.....))))))..))))))..))))))..)))))))). -23.50
let-7b      ENSRNOG00000013322  2000 nt UTR      4 hits 470 550 703 788
-----1--1-----1--1-----

```

```

>ENSRNOG00000013322 hs-let-7b      470      477
UGAGGUAGUAGGUUGUGUGGUU&CUCAGGAUGGAUUUUUAGCUGUUGUGACUCAGCACCUACCUCAG
((((((((...(((.(.(((&.....))))))..))))..)))))))). -23.00
>ENSRNOG00000013322 hs-let-7b      550      557
UGAGGUAGUAGGUUGUGUGGUU&CCUCAGCCUCUACCCCACAGAGCCCGAAAGCACUCCUACCUCAA
((((((((...(((.(.(((&.....))))))..))))..)))))))). -27.42
>ENSRNOG00000013322 hs-let-7b      703      710
UGAGGUAGUAGGUUGUGUGGUU&ACCACUGUCCCAACUCCAAGUGUGAAAGAAACUGUCUACCUCAA
((((((((((((((((((.(.(((&))))))..))))))..))))))..)))))))). -23.42
>ENSRNOG00000013322 hs-let-7b      788      795
UGAGGUAGUAGGUUGUGUGGUU&CUCCUUGGCCUCCUCCUCCUCCUGGCCUGGCCUGGCCUACCUCU
.((((((((((((((((((....(((&.....))))))..))))))..)))))))). -23.40

```

```

miRNA: let-7b
Human predicted target: ENSG00000182541
Mouse predicted target: ENSMUSG00000020451
Rat predicted target: ENSRNOG00000019000

```

Hs Gene description: LIM DOMAIN KINASE 2 (EC 2.7.1.-) (LIMK-2).  
[Source:SWISSPROT;Acc:P53671] NM\_016733

let-7b ENSG00000182541 3637 nt UTR 2 hits 1098 2572

-----1-----  
-----1-----  
>ENSG00000182541 hs-let-7b 1098 1105  
UGAGGUAGUAGGUUGUGUGGUU&AGAGAGAUAGCUCCUGAGCUGGGCCAUCUGACUUCUACCUCC  
.(((((((((((((.....)))))))).))))). -26.80  
>ENSG00000182541 hs-let-7b 2572 2579  
UGAGGUAGUAGGUUGUGUGGUU&GCCUUUAACAAGGGCUGUCUAGAUAUUCAUUUUUAACUACCUCC  
.(((((((((((((.....)))))))).))))). -18.31

let-7b ENSMUSG00000020451 3482 nt UTR 2 hits 140 976

-----1-----1-----  
-----1-----  
>ENSMUSG00000020451 hs-let-7b 140 147  
UGAGGUAGUAGGUUGUGUGGUU&GAAGGCUUGCUUAGAGGCACAACAAGCCAUCCCUACUACCUCC  
.(((((((((((((.....)))))))).))))). -28.80  
>ENSMUSG00000020451 hs-let-7b 976 983  
UGAGGUAGUAGGUUGUGUGGUU&AGGAAAAGAACACCCUGAGCUGGGCCUUGUAGAUUCUACCUCU  
.(((((((((((((.....)))))))).))))). -20.60

let-7b ENSRNOG00000019000 4867 nt UTR 2 hits 958 1727

-----1-----1-----  
-----1-----  
>ENSRNOG00000019000 hs-let-7b 958 965  
UGAGGUAGUAGGUUGUGUGGUU&AUUGACGGCUUGCUUAGAAGCAGAACAAGCCAUCCCUACCUCC  
.(((((((((((((.....)))))))).))))). -20.70  
>ENSRNOG00000019000 hs-let-7b 1727 1734  
UGAGGUAGUAGGUUGUGUGGUU&AUGAAGAGAGCUCCUGAGCUGGACCUUGUAGAGUCUACCUCU  
.(((((((((((((.....)))))))).))))). -21.00

miRNA: let-7c

Human predicted target: ENSG00000022567  
Mouse predicted target: ENSMUSG00000036649  
Rat predicted target: ENSRNOG00000007818

let-7c ENSG00000022567 7016 nt UTR 2 hits 1056 5277

-----1-----  
-----1-----  
>ENSG00000022567 hs-let-7c 1056 1063  
UGAGGUAGUAGGUUGUAUGGUU&CCAGCGGGCCCUGCCUCCCAAGUCCCGCCGCAAGGCUACCUCGG  
(((((((((((((.....)))))))).))))). -23.63  
>ENSG00000022567 hs-let-7c 5277 5284  
UGAGGUAGUAGGUUGUAUGGUU&GCCUGUUCUGGUGGAGCCGGGGUGGGGCCCGCGGUCUACCUCU  
.(((((((((((((.....)))))))).))))). -22.70  
let-7c ENSMUSG00000036649 2000 nt UTR 2 hits 896 952

-----1-1-----  
-----  
>ENSMUSG00000036649 hs-let-7c 896 903  
UGAGGUAGUAGGUUGUAUGGUU&CAGGUGAGCAUCGGCUCGCCGAGUCCUGCUGCACGGCUACCUCGA  
((((((((((..(((..(((..&.....))))).))..)))))))). -24.00  
>ENSMUSG00000036649 hs-let-7c 952 959  
UGAGGUAGUAGGUUGUAUGGUU&GUGGCAUCAGAGCAGGGCGCGGGAAGGGGCCGAGCCUACCUC  
..((((((((((..(((..(((..&.....))))).))..)))))))). -19.40  
let-7c ENSRNOG00000007818 2000 nt UTR 2 hits 892 948

-----1-1-----  
-----  
>ENSRNOG00000007818 hs-let-7c 892 899  
UGAGGUAGUAGGUUGUAUGGUU&CCAGGUGAGCAUUGGCUCCCAUAUCCUGCUGCAAGGCUACCUCGA  
((((((((((..(((..(((..&.....))))).))..)))))))). -24.20  
>ENSRNOG00000007818 hs-let-7c 948 955  
UGAGGUAGUAGGUUGUAUGGUU&UGGCAUCAGAGCAGGGCACGUGAAGGUGCCGGGGCCUACCUC  
..((((((((((..(((..(((..&.....))))).))..)))))))). -20.40

miRNA: let-7c

Human predicted target: ENSG00000082153

Mouse predicted target: ENSMUSG00000026033

Rat predicted target: ENSRNOG00000013977

Hs Gene description: BASIC LEUCINE ZIPPER AND W2 DOMAINS 1; BASIC LEUCINE-ZIPPER PROTEIN BZAP45. [Source:RefSeq;Acc:NM\_014670]

let-7c ENSG00000082153 2000 nt UTR 2 hits 84 251

---1-----1-----  
-----  
>ENSG00000082153 hs-let-7c 84 91  
UGAGGUAGUAGGUUGUAUGGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUUAUCAUCUCCUACCUC  
..((((((((((..(((..(((..&.....))))).))..)))))))). -21.10  
>ENSG00000082153 hs-let-7c 251 258  
UGAGGUAGUAGGUUGUAUGGUU&GAAUCUAAUGUUGCAUUGUCUUUUCAGUUAUCUUCUACCUC  
..((((((((((..(((..(((..&.....))))).))..)))))))). -19.70  
let-7c ENSMUSG00000026033 2413 nt UTR 2 hits 84 252

---1-----1-----  
-----  
>ENSMUSG00000026033 hs-let-7c 84 91  
UGAGGUAGUAGGUUGUAUGGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUUAUCAUCUCCUACCUC  
..((((((((((..(((..(((..&.....))))).))..)))))))). -21.10  
>ENSMUSG00000026033 hs-let-7c 252 259  
UGAGGUAGUAGGUUGUAUGGUU&UUGAAUCUGAUGUUGCAUUGGUUUUCAGUUAUCCUUCUACCUC  
..((((((((((..(((..(((..&.....))))).))..)))))))). -22.30  
let-7c ENSRNOG00000013977 2000 nt UTR 2 hits 760 920

-----1-1-----  
-----  
>ENSRNOG00000013977 hs-let-7c 760 767  
UGAGGUAGUAGGUUGUAUGGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUUAUCAUCUCCUACCUC

.(((((((.((((.((((.(...&.....)).)))))).))))). -21.10  
>ENSRNOG00000013977 hs-let-7c 920 927  
UGAGGUAGUAGGUUGUAUGGUU&ACGGAAGCUGGCGCUGCACUGGUCUUCAGUUCCCUCUACCUCC  
.(((((((.((((.(...&.....)).)))))).))))). -19.60

miRNA: let-7c

Human predicted target: ENSG00000100823

Mouse predicted target: ENSMUSG00000035960

Rat predicted target: ENSRNOG00000009663

Hs Gene description: DNA-(APURINIC OR APYRIMIDINIC SITE) LYASE (EC 4.2.99.18) (AP ENDONUCLEASE 1) (APEX NUCLEASE) (APEN) (REF-1 PROTEIN).  
[Source:SWISSPROT;Acc:P27695] NM\_080649

let-7c ENSG00000100823 2259 nt UTR 2 hits 911 1250

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

>ENSG00000100823 hs-let-7c 911 918  
UGAGGUAGUAGGUUGUAUGGUU&GCCCCUCAAACCUAAGUGAGGGCCUGGUUCCUCCUACCUCU  
.(((((((.((((.(...&.....)).)))))).))))). -22.20

>ENSG00000100823 hs-let-7c 1250 1257  
UGAGGUAGUAGGUUGUAUGGUU&GAAGAAAAGAAAGAUGGGGUUAAUGUUGGUCUCCACUACCUCC  
.(((((((.((((.(...&.....)).)))))).))))). -18.70

let-7c ENSMUSG00000035960 2165 nt UTR 2 hits 308 884

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

>ENSMUSG00000035960 hs-let-7c 308 315  
UGAGGUAGUAGGUUGUAUGGUU&CAGAUGAGUCCCUAACCCUCUCCCAAGACAGUGACCCUACCUCAG  
(((((((.((((.(...&.....)).)))))).))))). -22.00

>ENSMUSG00000035960 hs-let-7c 884 891  
UGAGGUAGUAGGUUGUAUGGUU&UCCCAAACAUAAGGAAGGAAGGGACUGCUUCCUCCUACCUCU  
.(((((((.((((.(...&.....)).)))))).))))). -21.10

let-7c ENSRNOG00000009663 2102 nt UTR 2 hits 246 734

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

>ENSRNOG00000009663 hs-let-7c 246 253  
UGAGGUAGUAGGUUGUAUGGUU&CAGAUGAAUCCUGACCUCUCCCAAGACAGUGACCCUACCUCAG  
(((((((.((((.(...&.....)).)))))).))))). -22.00

>ENSRNOG00000009663 hs-let-7c 734 741  
UGAGGUAGUAGGUUGUAUGGUU&ACCCUCAAACCUAAGUCAGGGGCUGGUUCCUCCUACCUCU  
.(((((((.((((.(...&...)).)))))).))))). -21.25

miRNA: let-7c

Human predicted target: ENSG00000119906

Mouse predicted target: ENSMUSG00000036097

Rat predicted target: ENSRNOG00000014489

Hs Gene description: C10ORF6. [Source:RefSeq;Acc:NM\_018121] NM\_144592

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

```

-----1-----1-----
-----
>ENSG00000119906 hs-let-7c 1326 1333
UGAGGUAGUAGGUUGUAUGGUU&UUGCGGUUUGAGAGGCAAGAAAUA AAAUAACUUCUACCUCU
.(((((((.....&.....)))))))). -22.20
>ENSG00000119906 hs-let-7c 1560 1567
UGAGGUAGUAGGUUGUAUGGUU&UGUUGUUUACUGGUAAGAAUAUUAUUAUCUUGAUACUACCUCU
.(((((((.....(.(((.&.....)))))))). -19.30
let-7c ENSMUSG00000036097 4668 nt UTR 2 hits 1314 1542
-----1-----1-----

```

```

-----
>ENSMUSG00000036097 hs-let-7c 1314 1321
UGAGGUAGUAGGUUGUAUGGUU&GAGAGGAGAAAUAAGUUCUGAGAGCUAACUCUUCUACCUCU
.(((((((.....(.(((.&.....)))))))). -20.40
>ENSMUSG00000036097 hs-let-7c 1542 1549
UGAGGUAGUAGGUUGUAUGGUU&GUGUUGAGUUUACUGGUAAGAAUAUUGUCUUGAUGCUACCUCU
.(((((((.....(.((.&.....))..))....)))). -19.20
let-7c ENSRNOG00000014489 4549 nt UTR 2 hits 1194 1424
-----1-----1-----

```

```

-----
>ENSRNOG00000014489 hs-let-7c 1194 1201
UGAGGUAGUAGGUUGUAUGGUU&UUGAGAGGAGAAAUAAGUUCUGAGAGCUAACUUCUACCUCU
.(((((((.....&.....)))))))). -20.50
>ENSRNOG00000014489 hs-let-7c 1424 1431
UGAGGUAGUAGGUUGUAUGGUU&GUGUUGAGUUUACUGGUAAGAAUAUUGUCUUGAUGCUACCUCU
.(((((((.....(.((.&.....))..))....)))). -19.20

```

miRNA: let-7c

Human predicted target: ENSG00000131242

Mouse predicted target: ENSMUSG00000017639

Rat predicted target: ENSRNOG00000014135

Hs Gene description: RAB11-FAMILY INTERACTING PROTEIN 4.

[Source:RefSeq;Acc:NM\_032932]

let-7c ENSG00000131242 8479 nt UTR 2 hits 344 704

```

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

```

```

-----
>ENSG00000131242 hs-let-7c 344 351
UGAGGUAGUAGGUUGUAUGGUU&GGAAGCUCGUGUUUCCGGUACUGGGUAAAAUGAUUCUACCUCU
.(((((((.....(.(((.&.....)))))))). -18.00
>ENSG00000131242 hs-let-7c 704 711
UGAGGUAGUAGGUUGUAUGGUU&CCUAUAGAGUUCGUGCACUCCCCCAUCCAUGCUACCUACCUCC
.(((((((.....(.(((.&.....)))))))). -22.80

```



let-7c ENSMUSG00000017639 2000 nt UTR 2 hits 311 636  
-----1-----1-----  
-----

>ENSMUSG00000017639 hs-let-7c 311 318  
UGAGGUAGUAGGUUGUAUGGUU&UGGAAGCUUGCAUUUAGGAUACUGAUGAAAUGAUUCUACCUCU  
.((((((((...((..((..(((&.....))))).))..))))). -16.90  
>ENSMUSG00000017639 hs-let-7c 636 643

UGAGGUAGUAGGUUGUAUGGUU&UCGUAGUUUUCUGAGCCCCUCCAGUCUUGCCUACCUC  
.((((((((((((...((..&.....))))).))..))))). -22.90  
let-7c ENSRNOG00000014135 2000 nt UTR 2 hits 331 660  
-----1-----1-----

-----  
>ENSRNOG00000014135 hs-let-7c 331 338

UGAGGUAGUAGGUUGUAUGGUU&UGGAAGCUUGCAUUUCAGAUACUGAUGACAUGAUUCUACCUCU  
.((((((((...((..((..(((&.....))))).))..))))). -18.50  
>ENSRNOG00000014135 hs-let-7c 660 667

UGAGGUAGUAGGUUGUAUGGUU&AGUUUUCUGUGCCCUUCCAGCCAGUCUUGCCUACCUC  
.((((((((((((...((..((..(((&.....))))).))..))))). -24.90

miRNA: let-7c  
Human predicted target: ENSG00000135912  
Mouse predicted target: ENSMUSG00000033257  
Rat predicted target: ENSRNOG00000017129  
Hs Gene description: NM\_014640

let-7c ENSG00000135912 2000 nt UTR 2 hits 45 983  
-1-----1-----  
-----

>ENSG00000135912 hs-let-7c 45 52  
UGAGGUAGUAGGUUGUAUGGUU&CUCCAAAAGCCUCUGCCAGGAGCAUGGGCAUCAGCUACCUCAC  
((((((((...((..((..(((&.....))))).))..))))). -24.10  
>ENSG00000135912 hs-let-7c 983 990

UGAGGUAGUAGGUUGUAUGGUU&CAAACCUCAGACUAAACUCUUGUACUGAACUGAUUCUACCUC  
.((((((((...((..((..(((&.....))))).))..))))). -20.40  
let-7c ENSMUSG00000033257 2000 nt UTR 3 hits 617 1137 1899  
-----1-----1-----

-----  
>ENSMUSG00000033257 hs-let-7c 617 624

UGAGGUAGUAGGUUGUAUGGUU&UUUGUUUAUAGUGGUCUCUGCCAACAUCGCUAUGACUACCUCAA  
((((((((...((..((..(((&.....))))).))..))))). -24.30  
>ENSMUSG00000033257 hs-let-7c 1137 1144

UGAGGUAGUAGGUUGUAUGGUU&UGAGCUCGUGACUGGUCCUGCACAGGAGCAGCUCAGCUACCUCAA  
((((((((...((..((..(((&.....))))).))..))))). -22.60  
>ENSMUSG00000033257 hs-let-7c 1899 1906

UGAGGUAGUAGGUUGUAUGGUU&GCUUCUCAUCUCUGACAGCUAAUACUCAGUGGCAUCUACCUC  
.((((((((...((..((..(((&.....))))).))..))))). -19.70  
let-7c ENSRNOG00000017129 2000 nt UTR 2 hits 883 1581

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

>ENSRNOG00000017129 hs-let-7c 883 890  
UGAGGUAGUAGGUUGUAUGGUU&UGAGCCCAUGACUGGUCCUACACAGGAGCACUCAGCUACCUCAA  
((((((((((((...(((((&.....)))))).....)))))))). -22.96  
>ENSRNOG00000017129 hs-let-7c 1581 1588  
UGAGGUAGUAGGUUGUAUGGUU&GCUUCUCAUCUCUGACAGUUAUACUCAACUGCAUCUACCUCC  
((((((((...(((((&.....)))))).....)))))). -20.00

miRNA: let-7c

Human predicted target: ENSG00000140548

Mouse predicted target: ENSMUSG00000048897

Rat predicted target: ENSRNOG00000014278

let-7c ENSG00000140548 2964 nt UTR 2 hits 528 1859

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

>ENSG00000140548 hs-let-7c 528 535  
UGAGGUAGUAGGUUGUAUGGUU&CUGUCGACGGACCGCCAGGCAGGGCACUCUGCCUUCUACCUCC  
((((((((((((...(((((&.....)))))).....)))))))). -25.90  
>ENSG00000140548 hs-let-7c 1859 1866  
UGAGGUAGUAGGUUGUAUGGUU&UUCUCCUGCUGAGCAGAAGGCAUCAUCCCCUGCAAACUACCUCU  
((((((((...(((((&.....)))))).....)))))). -20.90  
let-7c ENSMUSG00000048897 2000 nt UTR 2 hits 519 1756

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

>ENSMUSG00000048897 hs-let-7c 519 526  
UGAGGUAGUAGGUUGUAUGGUU&CUAUCACUCAAGAGCCAGGCAGGGCACUCUGCCUUCUACCUCC  
((((((((((((...(((((&.....)))))).....)))))))). -26.50  
>ENSMUSG00000048897 hs-let-7c 1756 1763  
UGAGGUAGUAGGUUGUAUGGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUGCAAACUACCUCU  
((((((((...(((((&.....)))))).....)))))). -22.20  
let-7c ENSRNOG00000014278 4055 nt UTR 3 hits 550 1647 2696

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

>ENSRNOG00000014278 hs-let-7c 550 557  
UGAGGUAGUAGGUUGUAUGGUU&CUGUCACUCAAGAGCCAGGCAGGGCACUCUGCCUUCUACCUCC  
((((((((((((...(((((&.....)))))).....)))))))). -26.50  
>ENSRNOG00000014278 hs-let-7c 1647 1654  
UGAGGUAGUAGGUUGUAUGGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUGCAAACUACCUCU  
((((((((...(((((&.....)))))).....)))))). -22.20  
>ENSRNOG00000014278 hs-let-7c 2696 2703  
UGAGGUAGUAGGUUGUAUGGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUGCAAACUACCUCU  
((((((((...(((((&.....)))))).....)))))). -22.20

miRNA: let-7c

Human predicted target: ENSG00000148200  
 Mouse predicted target: ENSMUSG00000026752  
 Rat predicted target: ENSRNOG00000013232  
 Hs Gene description: ORPHAN NUCLEAR RECEPTOR NR6A1 (GERM CELL NUCLEAR FACTOR) (GCNF) (RETINOID RECEPTOR-RELATED TESTIS SPECIFIC RECEPTOR) (RTR).  
 [Source:SWISSPROT;Acc:Q15406] NM\_033335

let-7c ENSG00000148200 2000 nt UTR 3 hits 388 1359 1387  
 -----1-----11-----  
 -----  
 >ENSG00000148200 hs-let-7c 388 395  
 UGAGGUAGUAGGUUGUAUGGUU&UAAGAUGACUAUUUCCAUAUGUUGACAAAGAUGACUACCUCAA  
 (((((((((...(((((((((&.....)))))).....)))))))). -21.91  
 >ENSG00000148200 hs-let-7c 1359 1366  
 UGAGGUAGUAGGUUGUAUGGUU&GCCAGAAGCACCUGGAAGGGAAGGGGGCUUUAACUACCUCAG  
 ((((((((((((.(.(((&)))..)))))).....)))))))). -24.19  
 >ENSG00000148200 hs-let-7c 1387 1394  
 UGAGGUAGUAGGUUGUAUGGUU&CUUUAACUACCUCAGGUUCCUAAUGGCCCGGCUGCUACCUCU  
 .(((((((((((.(.((...(((&.....))))))))).....)))))))). -23.60

let-7c ENSMUSG00000026752 6457 nt UTR 8 hits 101 371 794 1228 3827  
 4135 4145 4310  
 ----1-----1-----1-----1-----  
 -----  
 -----1-----2-----1-----  
 -----  
 -----  
 >ENSMUSG00000026752 hs-let-7c 101 108  
 UGAGGUAGUAGGUUGUAUGGUU&AAGAGCCAGAGACCAAGAUGGAGACUGUGGAGCAGCUACCUC  
 .(((((((((((.(.((((((&.....)))))))))..)))))))). -25.30  
 >ENSMUSG00000026752 hs-let-7c 371 378  
 UGAGGUAGUAGGUUGUAUGGUU&CUAGAUGAGUAUUUCCAUAUGUUGACAAAGACAACUACCUCAA  
 ((((((((((...(((.(.(((((..&.....)))))).....)))))))). -22.70  
 >ENSMUSG00000026752 hs-let-7c 794 801  
 UGAGGUAGUAGGUUGUAUGGUU&GAUCUACCAAGGCCUACCUUCUUCAGACCCCAUCCCUACCUCU  
 .(((((((((((...(((.(.(((&.....)))))).....)))))))). -22.60  
 >ENSMUSG00000026752 hs-let-7c 1228 1235  
 UGAGGUAGUAGGUUGUAUGGUU&AGCCAGAAAGACCUAGAAAGGAAAGGGCAUUAACUACCUCAU  
 ((((((((((((((...((((&)))..)))))).....)))))))). -26.15  
 >ENSMUSG00000026752 hs-let-7c 3827 3834  
 UGAGGUAGUAGGUUGUAUGGUU&UGUUUUUACUCAAAUUUCCAUGGGGGGAAAAAGACUACCUCU  
 .(((((((((((...(((.(.(((((..&.....)))))).....)))))))). -20.50  
 >ENSMUSG00000026752 hs-let-7c 4135 4142  
 UGAGGUAGUAGGUUGUAUGGUU&AUUUCAGGGACUCUGAUGGCAAGUGCAUCAUGAACCUACCUCAG  
 ((((((((((...(((.(.(((((..&.....)))))).....)))))))). -20.20  
 >ENSMUSG00000026752 hs-let-7c 4145 4152  
 UGAGGUAGUAGGUUGUAUGGUU&CUCUGAUGGCAAGUGCAUCAUGAACCUACCUCAGGCUACCUC  
 .(((((((((((...(((.(.((((((&.....)))))).....)))))))). -24.60  
 >ENSMUSG00000026752 hs-let-7c 4310 4317  
 UGAGGUAGUAGGUUGUAUGGUU&AGUUGGCGGGCUCUGCAGGCUCUCAGGCCUCUGCUACCUC  
 .(((((((((((((((...((((&.....))))..)))))).....)))))))). -24.61

let-7c ENSRNOG00000013232 5506 nt UTR 9 hits 374 774 1223 2875 3184  
3194 3359 3736 4193

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

>ENSRNOG00000013232 hs-let-7c 374 381  
UGAGGUAGUAGGUUGUAUGGUU&CUAGGUGACUAUUUCCAUAUUGUUGACAAAGACAACUACCUCAG  
((((((((((..(((..(((..&.....)))))).....)))))))). -22.70  
>ENSRNOG00000013232 hs-let-7c 774 781  
UGAGGUAGUAGGUUGUAUGGUU&UAGCUGCCUGGUUUCUGACCCAGGUCUACCAGGCCUACCUC  
((((((((((..(((..(((..&.....)))))).....)))))))). -20.70  
>ENSRNOG00000013232 hs-let-7c 1223 1230  
UGAGGUAGUAGGUUGUAUGGUU&AGCCAGAAGCACCUAGAAGGGAAAGGGCCUUUAAACUACCUCAU  
((((((((((((..(((..((((&)))))).....)))))))). -24.55  
>ENSRNOG00000013232 hs-let-7c 2875 2882  
UGAGGUAGUAGGUUGUAUGGUU&UGUUUUUAUCAAGUUUCCAUGGGGGGAAAAGACUACCUCU  
((((((((((..(((..(((..&.....)))))).....)))))))). -19.90  
>ENSRNOG00000013232 hs-let-7c 3184 3191  
UGAGGUAGUAGGUUGUAUGGUU&UUGGAUUUCAGGGACUCUGAUGGCAAGUGGUGAACCUACCUCAG  
((((((((((..(((..(((..&.....)))))).....)))))))). -18.94  
>ENSRNOG00000013232 hs-let-7c 3194 3201  
UGAGGUAGUAGGUUGUAUGGUU&GGGACUCUGAUGGCAAGUGGUGAACCUACCUCAGGCCUACCUC  
((((((((((..(((..(((..&.....)))))).....)))))))). -24.60  
>ENSRNOG00000013232 hs-let-7c 3359 3366  
UGAGGUAGUAGGUUGUAUGGUU&AGUUGGCGGGCUCUGCAGGCUCUCAGGCCUCUGCUACCUC  
((((((((((((..(((..(((..&.....)))))).....)))))))). -24.61  
>ENSRNOG00000013232 hs-let-7c 3736 3743  
UGAGGUAGUAGGUUGUAUGGUU&UAGCUGCCUGGUUUCUGACCCAGGUCUACCAGGCCUACCUC  
((((((((((..(((..(((..&.....)))))).....)))))))). -20.70  
>ENSRNOG00000013232 hs-let-7c 4193 4200  
UGAGGUAGUAGGUUGUAUGGUU&AGCCAGAAGCACCUAGAAGGGAAAGGGCCUUUAAACUACCUCAU  
((((((((((((..(((..((((&)))))).....)))))))). -24.55

miRNA: let-7c

Human predicted target: ENSG00000163935  
Mouse predicted target: ENSMUSG00000006527  
Rat predicted target: ENSRNOG00000016645  
Hs Gene description: SCM-RELATED GENE CONTAINING FOUR MBT DOMAINS.  
[Source:RefSeq;Acc:NM\_016329]

let-7c ENSG00000163935 2000 nt UTR 2 hits 604 944  
-----1-----1-----1-----1-----  
-----

>ENSG00000163935 hs-let-7c 604 611  
UGAGGUAGUAGGUUGUAUGGUU&AUUUUAAAUCGAUUCUAGGAGUUCUUGUUUACUACCUCU  
((((((((((..(((..(((..&.....)))))).....)))))))). -20.60  
>ENSG00000163935 hs-let-7c 944 951  
UGAGGUAGUAGGUUGUAUGGUU&UUAUUUUGUGUUUACUUUCUCUAGAGUUGUUUGUCUACCUCU

.((((((((((..(....((..&.....))))....)))). -16.70  
let-7c ENSMUSG00000006527 2000 nt UTR 2 hits 578 904  
-----1-----1-----

>ENSMUSG00000006527 hs-let-7c 578 585  
UGAGGUAGUAGGUUGUAUGGUU&CAUUUUAAAUCUAUUCUAGGAGUCCUUGGUUUACUACCUCU  
.((((((((((..(....((..&.....))))....)))). -22.40

>ENSMUSG00000006527 hs-let-7c 904 911  
UGAGGUAGUAGGUUGUAUGGUU&UAUUUUUAUGUUUAUUCUUCUGUUAGAGUUGUUUAACUACCUCU  
.((((((((((..(....((..&.....))))....)))). -17.30  
let-7c ENSRNOG00000016645 2099 nt UTR 2 hits 559 888  
-----1-----1-----

>ENSRNOG00000016645 hs-let-7c 559 566  
UGAGGUAGUAGGUUGUAUGGUU&CAUUUUAAAUCUGUCUAGGAGUCCUUGGUUUACUACCUCU  
.((((((((((..(....((..&.....))))....)))). -20.60

>ENSRNOG00000016645 hs-let-7c 888 895  
UGAGGUAGUAGGUUGUAUGGUU&UGUUUUUAUGCUUAGUUUCUGUAGAGUUGUUUAACUACCUCU  
.((((((((((..(....((..&.....))))....)))). -18.20

miRNA: let-7c

Human predicted target: ENSG00000166106  
Mouse predicted target: ENSMUSG00000033453  
Rat predicted target: ENSRNOG00000009892  
Hs Gene description: ADAMTS-15 PRECURSOR (EC 3.4.24.-) (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 15) (ADAM-TS 15) (ADAM-TS15).  
[Source:SWISSPROT;Acc:Q8TE58] NM\_139055  
let-7c ENSG00000166106 2000 nt UTR 2 hits 206 1185  
-----1-----1-----

>ENSG00000166106 hs-let-7c 206 213  
UGAGGUAGUAGGUUGUAUGGUU&CUGGGCAGAGGGAAGCCAGGAACUCCCGCACAGUCUACCUCAG  
((((((((((..(....((..&.....))))....)))). -21.40

>ENSG00000166106 hs-let-7c 1185 1192  
UGAGGUAGUAGGUUGUAUGGUU&CGUUGCAUCCUAGGCCUAGCUUCUCCACUGUUUGCUACCUCAG  
((((((((((..(....((..&.....))))....)))). -22.50  
let-7c ENSMUSG00000033453 5361 nt UTR 2 hits 692 1642  
-----1-----1-----

>ENSMUSG00000033453 hs-let-7c 692 699  
UGAGGUAGUAGGUUGUAUGGUU&UGGACUGGGCAGGGGAAGUUAACUAAUGCACAGUCUACCUCAU  
((((((((((..(....((..&.....))))....)))). -22.60

>ENSMUSG00000033453 hs-let-7c 1642 1649  
UGAGGUAGUAGGUUGUAUGGUU&CAGUUCUCUGGUAGGUAAACGGGCUUCAUUGUUUGCUACCUCAG  
((((((((((..(....((..&.....))))....)))). -23.60  
let-7c ENSRNOG00000009892 4706 nt UTR 3 hits 194 1084 3012

-----1-----1-----  
-----1-----  
-----  
>ENSRNOG00000009892 hs-let-7c 194 201  
UGAGGUAGUAGGUUGUAUGGUU&UGGACUCGGCAGGGGAAGCUAACUAAUGCACAGUCUACCUCAU  
((((((((((...(((((&.....)))))))).))))). -22.60  
>ENSRNOG00000009892 hs-let-7c 1084 1091  
UGAGGUAGUAGGUUGUAUGGUU&CAUCUCUCUGGUAGGUAAACGGGGCUCAUUGUUUGCUACCUCAG  
((((((((((...(((((&.....)))))))).))))). -23.30  
>ENSRNOG00000009892 hs-let-7c 3012 3019  
UGAGGUAGUAGGUUGUAUGGUU&CAUCUCUCUGGUAGGUAAACGGGGCUCAUUGUUUGCUACCUCAG  
((((((((((...(((((&.....)))))))).))))). -23.30

miRNA: let-7c

Human predicted target: ENSG00000169635

Mouse predicted target: ENSMUSG00000050240

Rat predicted target: ENSRNOG00000001863

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

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

-----1-----1-----1-----  
-----  
>ENSG00000169635 hs-let-7c 211 218  
UGAGGUAGUAGGUUGUAUGGUU&AGCCGAGAGGAGGAAGCCAGGGGUCCCAGCCCGUCUACCUCU  
((((((((((...(((((&.....)))))))).))))). -24.90  
>ENSG00000169635 hs-let-7c 543 550  
UGAGGUAGUAGGUUGUAUGGUU&CACUGGCGCUGGGACAGUCAGGGUGACCCACCGCCUACCUCU  
((((((((((...(((((&.....)))))))).))))). -22.10  
>ENSG00000169635 hs-let-7c 1158 1165  
UGAGGUAGUAGGUUGUAUGGUU&CCUCGCUGAACAAGGUGGAGACUUCUGACCUUUUGCUACCUCU  
((((((((((...(((((&.....)))))))).))))). -23.20  
let-7c ENSMUSG00000050240 2000 nt UTR 3 hits 307 635 1286

-----1-----1-----1-----  
-----  
>ENSMUSG00000050240 hs-let-7c 307 314  
UGAGGUAGUAGGUUGUAUGGUU&AGUCUAGCCCUAUGCAUGUGGUGCUGGUGACUAUUCUACCUCU  
((((((((((...(((((&.....)))))))).))))). -20.71  
>ENSMUSG00000050240 hs-let-7c 635 642  
UGAGGUAGUAGGUUGUAUGGUU&UAGCUGGCACUGGAACAGUCAGGGUGACCCAUUGCCUACCUCU  
((((((((((...(((((&.....)))))))).))))). -20.70  
>ENSMUSG00000050240 hs-let-7c 1286 1293  
UGAGGUAGUAGGUUGUAUGGUU&CUCACUGAACAUGGUGGGGAGCCUUCUGACCUUUUGCUACCUCU  
((((((((((...(((((&.....)))))))).))))). -22.10  
let-7c ENSRNOG00000001863 2000 nt UTR 3 hits 197 511 1139

-----1-----1-----1-----  
-----  
>ENSRNOG00000001863 hs-let-7c 197 204

UGAGGUAGUAGGUUGUAUGGUU&AGUCUGGCCUCUGCAUGUGGUGCUGGUGACUACUCUACCUC  
.(((((((...(((...((...&.....))))))..))))). -19.50  
>ENSRNOG0000001863 hs-let-7c 511 518  
UGAGGUAGUAGGUUGUAUGGUU&UAGCUGGCACUGGAACAGUCAGGGUGACCCAUGCCUACCUCU  
.(((((((...(((...((...&.....))))))..))))). -20.70  
>ENSRNOG0000001863 hs-let-7c 1139 1146  
UGAGGUAGUAGGUUGUAUGGUU&UUCACUGAACAUGAUGGAGGCCUUCUGACCUUUGCUACCUCU  
.(((((((...(((...((...&.....))))))..))))). -22.10

miRNA: let-7c

Human predicted target: ENSG00000174498

Mouse predicted target: ENSMUSG00000032394

Rat predicted target: ENSRNOG00000013322

Hs Gene description: SIMILAR TO PUTATIVE NEURONAL CELL ADHESION MOLECULE.

[Source:SPTREMBL;Acc:Q8IVU1]

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

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

>ENSG00000174498 hs-let-7c 452 459  
UGAGGUAGUAGGUUGUAUGGUU&UCAGGAUGGAUUUUUGCUGUUUUGGCUCUCAGCACCUACCUCAG  
(((((((...(((...((...&.....))))))..))))). -22.30

>ENSG00000174498 hs-let-7c 534 541  
UGAGGUAGUAGGUUGUAUGGUU&UCAGCCCCCUUACCCCACAGAGCCCGAAUGCACUCCUACCUCAA  
(((((((...(((...((...&.....))))))..))))). -22.80

>ENSG00000174498 hs-let-7c 685 692  
UGAGGUAGUAGGUUGUAUGGUU&AGCACUUCCCCAUUUCCAGAUGUGAAAGAAAUGUCUACCUCAA  
(((((((...(((...((...&.....))))))..))))). -18.71

>ENSG00000174498 hs-let-7c 762 769  
UGAGGUAGUAGGUUGUAUGGUU&GACCUGCCUCCCCGCCCUCCUGCCCACAGCCCACCUACCUCU  
.(((((((...(((...((...&.....))))))..))))). -25.60

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

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

>ENSMUSG00000032394 hs-let-7c 388 395  
UGAGGUAGUAGGUUGUAUGGUU&CAGGAUGGAUUUUUGAGCUGUUGUGACUCUCAGCACCUACCUCAG  
(((((((...(((...((...&.....))))))..))))). -22.80

>ENSMUSG00000032394 hs-let-7c 468 475  
UGAGGUAGUAGGUUGUAUGGUU&CCUCCGCCUCUACCCCACAGAGCCCGAAAGCACUCCUACCUCAA  
(((((((...(((...((...&.....))))))..))))). -23.80

>ENSMUSG00000032394 hs-let-7c 633 640  
UGAGGUAGUAGGUUGUAUGGUU&ACCACUGUCCCAACUCCAAGUGUGAAAGAAACUGUCUACCUCAG  
(((((((...(((...((...&.....))))))..))))). -20.20

>ENSMUSG00000032394 hs-let-7c 714 721  
UGAGGUAGUAGGUUGUAUGGUU&GACCCUCCCCAGCCUCCUUCAUCCUGGCCUAGCCUACCUCU  
.(((((((...(((...((...&.....))))))..))))). -21.50

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

-----1--1-----1--1-----1--1-----1--1-----  
-----  
>ENSRNOG00000013322 hs-let-7c 470 477  
UGAGGUAGUAGGUUGUAUGGUU&CUCAGGAUGGAUUUUUAGCUGUUGUGACUCAGCACCUACCUCAG  
((((((((((...((((((...((((&.....))))))))))..)))))))). -21.40  
>ENSRNOG00000013322 hs-let-7c 550 557  
UGAGGUAGUAGGUUGUAUGGUU&CCUCAGCCUCUACCCCACAGAGCCCGAAAGCACUCCUACCUCAA  
((((((((((...((((((...((((&.....))))))))))..)))))))). -23.80  
>ENSRNOG00000013322 hs-let-7c 703 710  
UGAGGUAGUAGGUUGUAUGGUU&ACCACUGUCCCAACUCCAAGUGUGAAAGAAACUGUCUACCUCAA  
((((((((((...((((((...((((&.....))))))))))..)))))))). -20.20  
>ENSRNOG00000013322 hs-let-7c 788 795  
UGAGGUAGUAGGUUGUAUGGUU&CUCCUUGGCCUCCUCCUCCUCCUGGCCUGGCCUGGCCUACCUCU  
((((((((((...((((((...((((&.....))))))))))..)))))))). -23.40

miRNA: let-7c

Human predicted target: ENSG00000182541

Mouse predicted target: ENSMUSG00000020451

Rat predicted target: ENSRNOG00000019000

Hs Gene description: LIM DOMAIN KINASE 2 (EC 2.7.1.-) (LIMK-2).

[Source:SWISSPROT;Acc:P53671] NM\_016733

let-7c ENSG00000182541 3637 nt UTR 2 hits 1098 2572

-----1-----  
-----1-----  
>ENSG00000182541 hs-let-7c 1098 1105  
UGAGGUAGUAGGUUGUAUGGUU&AGAGAGAUAGCUCCUGAGCUGGGCCAUCUGACUUCUACCUC  
((((((((((...((((((...((((&.....))))))))))..)))))))). -26.50  
>ENSG00000182541 hs-let-7c 2572 2579  
UGAGGUAGUAGGUUGUAUGGUU&GCCUUUAACAAGGGCUGUCUAGAUUUAUUUAACUACCUC  
((((((((((...((((((...((((&.....))))))))))..)))))))). -18.13  
let-7c ENSMUSG00000020451 3482 nt UTR 2 hits 140 976

-----1-----1-----  
-----1-----  
>ENSMUSG00000020451 hs-let-7c 140 147  
UGAGGUAGUAGGUUGUAUGGUU&GAAGGCUUGCUUAGAGGCACAACAAGCCAUCCUACUACCUC  
((((((((((...((((((...((((&.....))))))))))..)))))))). -28.50  
>ENSMUSG00000020451 hs-let-7c 976 983  
UGAGGUAGUAGGUUGUAUGGUU&AGGAAAAGAACACCUGAGCUGGGCCUUGUAGAUUCUACCUCU  
((((((((((...((((((...((((&.....))))))))))..)))))))). -19.40  
let-7c ENSRNOG00000019000 4867 nt UTR 2 hits 958 1727

-----1-----1-----  
-----1-----  
>ENSRNOG00000019000 hs-let-7c 958 965  
UGAGGUAGUAGGUUGUAUGGUU&AUUGACGGCUUGCUUAGAAGCAGAACAAGCCAUCCUACCUC  
((((((((((...((((((...((((&.....))))))))))..)))))))). -20.00  
>ENSRNOG00000019000 hs-let-7c 1727 1734



UGAGGUAGUAGGUUGUAUGGUU&AUGAAGAGAGCUGCCUGAGCUGGACCUUGUAGAGUCUACCUCU  
.((((((((.....(((((((((&.....)))))).)))))).)). -19.90

miRNA: let-7d

Human predicted target: ENSG00000022567

Mouse predicted target: ENSMUSG00000036649

Rat predicted target: ENSRNOG00000007818

let-7d ENSG00000022567 7016 nt UTR 2 hits 1056 5277

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

>ENSG00000022567 hs-let-7d 1056 1063  
AGAGGUAGUAGGUUGCAUAGU&CCAGCGGGCCUGCCUCCCAAGUCCCGCCGCAAGGCUACCUCG  
.((((((((.....(((((((((&.....)))))).)))))).)). -23.80

>ENSG00000022567 hs-let-7d 5277 5284  
AGAGGUAGUAGGUUGCAUAGU&GCCUGUUCUGGUGGAGCCGGGGUGGGGCCCGCGGUCUACCUCUG  
((((((((.....(((((((((&.....)))))).)))))).)). -23.50  
let-7d ENSMUSG00000036649 2000 nt UTR 2 hits 896 952

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

>ENSMUSG00000036649 hs-let-7d 896 903  
AGAGGUAGUAGGUUGCAUAGU&CAGGUGAGCAUCGGCUCCCGAGUCCUGCUGCACGGCUACCUCG  
.((((((((.....(((((((((&.....)))))).)))))).)). -24.10

>ENSMUSG00000036649 hs-let-7d 952 959  
AGAGGUAGUAGGUUGCAUAGU&GUGGCAUCAGAGCAGGGCGCGGGAAGGGGCCGAGCCUACCUC  
.((((((((.....(((((((((&.....)))))).)))))).)). -21.70  
let-7d ENSRNOG00000007818 2000 nt UTR 2 hits 892 948

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

>ENSRNOG00000007818 hs-let-7d 892 899  
AGAGGUAGUAGGUUGCAUAGU&CCAGGUGAGCAUUGGCUCCCAAUCCUGCUGCAAGGCUACCUCG  
.((((((((.....(((((((((&.....)))))).)))))).)). -24.90

>ENSRNOG00000007818 hs-let-7d 948 955  
AGAGGUAGUAGGUUGCAUAGU&UGGCAUCAGAGCAGGGCACGUGAAGGUGCCGGGGCCUACCUC  
.((((((((.....(((((((((&.....)))))).)))))).)). -18.80

miRNA: let-7d

Human predicted target: ENSG00000082153

Mouse predicted target: ENSMUSG00000026033

Rat predicted target: ENSRNOG00000013977

Hs Gene description: BASIC LEUCINE ZIPPER AND W2 DOMAINS 1; BASIC LEUCINE-  
ZIPPER PROTEIN BZAP45. [Source:RefSeq;Acc:NM\_014670]

let-7d ENSG00000082153 2000 nt UTR 2 hits 84 251

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

>ENSG00000082153 hs-let-7d 84 91  
AGAGGUAGUAGGUUGCAUAGU&UGUCAUGUCUCAUGUGUCCUGGUUCUACAUCUCCUACCUC  
(((((((((((((((((.&.....)))))))).))))). -19.63

>ENSG00000082153 hs-let-7d 251 258  
AGAGGUAGUAGGUUGCAUAGU&GAAUCUAAUGUUGCAUAGUCUUUUCAGUUAUCUCCUACCUC  
(((((((((((((((((.&.....)))))))).))))). -21.00  
let-7d ENSMUSG00000026033 2413 nt UTR 2 hits 84 252

-----1-----1-----  
-----  
>ENSMUSG00000026033 hs-let-7d 84 91  
AGAGGUAGUAGGUUGCAUAGU&UGUCAUGUCUCAUGUGUCCUGGUUCUACAUCUCCUACCUC  
(((((((((((((((((.&.....)))))))).))))). -19.63

>ENSMUSG00000026033 hs-let-7d 252 259  
AGAGGUAGUAGGUUGCAUAGU&UUGAAUCUGAUGUUGCAUUGGUUUUCAGUUAUCUCCUACCUC  
(((((((((((((((((.&.....)))))))).))))). -22.61  
let-7d ENSRNOG00000013977 2000 nt UTR 2 hits 760 920

-----1-----1-----  
-----  
>ENSRNOG00000013977 hs-let-7d 760 767  
AGAGGUAGUAGGUUGCAUAGU&UGUCAUGUCUCAUGUGUCCUGGUUCUACAUCUCCUACCUC  
(((((((((((((((((.&.....)))))))).))))). -19.63

>ENSRNOG00000013977 hs-let-7d 920 927  
AGAGGUAGUAGGUUGCAUAGU&ACGGAAGCUGGCGCUGCACUGGUCUUCAGUUCCUCUACCUC  
(((((((((((((((((.&.....)))))))).))))). -22.80

miRNA: let-7d

Human predicted target: ENSG00000100823

Mouse predicted target: ENSMUSG00000035960

Rat predicted target: ENSRNOG00000009663

Hs Gene description: DNA-(APURINIC OR APYRIMIDINIC SITE) LYASE (EC 4.2.99.18) (AP ENDONUCLEASE 1) (APEX NUCLEASE) (APEN) (REF-1 PROTEIN).

[Source:SWISSPROT;Acc:P27695] NM\_080649

let-7d ENSG00000100823 2259 nt UTR 2 hits 911 1250

-----1-----1-----  
-----  
>ENSG00000100823 hs-let-7d 911 918  
AGAGGUAGUAGGUUGCAUAGU&GCCCCUCCAAACCUAAGUGAGGGGCCUGGUUCCUCCUACCUC  
(((((((((((((((((.&.....)))))))).))))). -21.70

>ENSG00000100823 hs-let-7d 1250 1257  
AGAGGUAGUAGGUUGCAUAGU&GAAGAAAAGAAAGAUGGGGUUAAUGUUGGUCUCCACUACCUC  
(((((((((((((((((.&.....)))))))).))))). -21.60  
let-7d ENSMUSG00000035960 2165 nt UTR 2 hits 308 884

-----1-----1-----  
-----  
>ENSMUSG00000035960 hs-let-7d 308 315  
AGAGGUAGUAGGUUGCAUAGU&CAGAUGAGUCCUAACCUCUCCCAAGACAGUGACCCUACCUC  
(((((((((((((((((.&.....)))))))).))))). -23.80

>ENSMUSG00000035960 hs-let-7d 884 891  
AGAGGUAGUAGGUUGCAUAGU&UCCAAACAUAAGGAAGGAAGGGACUGCUUCCUCCUACCUCUC  
(((((((((((((.....&.....)))))))).))))). -23.10  
let-7d ENSRNOG00000009663 2102 nt UTR 2 hits 246 734  
-----1-----1-----

>ENSRNOG00000009663 hs-let-7d 246 253  
AGAGGUAGUAGGUUGCAUAGU&CAGAUGAAUCCUGACCUCUCCCAAGACAGUGACCCUACCUCA  
.(((((((((((((.....&.....)))))))).))))). -23.80  
>ENSRNOG00000009663 hs-let-7d 734 741  
AGAGGUAGUAGGUUGCAUAGU&ACCCCUCCAAACCUAAGUCAGGGGCUUGGUUCCUCCUACCUCUC  
(((((((((((((.....&.....)))))))).))))). -23.00

miRNA: let-7d

Human predicted target: ENSG00000119906  
Mouse predicted target: ENSMUSG00000036097  
Rat predicted target: ENSRNOG00000014489  
Hs Gene description: C10ORF6. [Source:RefSeq;Acc:NM\_018121] NM\_144592  
let-7d ENSG00000119906 2862 nt UTR 2 hits 1326 1560  
-----1-----1-----

>ENSG00000119906 hs-let-7d 1326 1333  
AGAGGUAGUAGGUUGCAUAGU&UUGCUGUUUGAGAGGCAAGAAAUAUUUAACUUCUACCUCUA  
(((((((((((((.....&.....)))))))).))))). -21.70  
>ENSG00000119906 hs-let-7d 1560 1567  
AGAGGUAGUAGGUUGCAUAGU&UGUUGUUUACUGGUAAGAAUUAUUAUCUUGAUACUACCUCUC  
(((((((((((((.....&.....)))))))).))))). -20.10  
let-7d ENSMUSG00000036097 4668 nt UTR 2 hits 1314 1542  
-----1-----1-----

>ENSMUSG00000036097 hs-let-7d 1314 1321  
AGAGGUAGUAGGUUGCAUAGU&GAGAGGAGAAAUAAGUUCUGAGAGCUAACUCUUCUACCUCUA  
(((((((((((((.....&.....)))))))).))))). -22.00  
>ENSMUSG00000036097 hs-let-7d 1542 1549  
AGAGGUAGUAGGUUGCAUAGU&GUGUUGAGUUUACUGGUAAGAAUUAUUGUCUUGAUGCUACCUCUC  
(((((((((((((.....&.....)))))))).))))). -20.10  
let-7d ENSRNOG00000014489 4549 nt UTR 2 hits 1194 1424  
-----1-----1-----

>ENSRNOG00000014489 hs-let-7d 1194 1201  
AGAGGUAGUAGGUUGCAUAGU&UUGAGAGGAGAAAUAAGUUCUGAGAGCUAACUUCUACCUCUA  
(((((((((((((.....&.....)))))))).))))). -24.00  
>ENSRNOG00000014489 hs-let-7d 1424 1431  
AGAGGUAGUAGGUUGCAUAGU&GUGUUGAGUUUACUGGUAAGAAUUAUUGUCUUGAUGCUACCUCUC  
(((((((((((((.....&.....)))))))).))))). -20.10

miRNA: let-7d  
Human predicted target: ENSG00000131242  
Mouse predicted target: ENSMUSG00000017639  
Rat predicted target: ENSRNOG00000014135  
Hs Gene description: RAB11-FAMILY INTERACTING PROTEIN 4.

[Source:RefSeq;Acc:NM\_032932]

let-7d ENSG00000131242 8479 nt UTR 2 hits 344 704

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

>ENSG00000131242 hs-let-7d 344 351  
AGAGGUAGUAGGUUGCAUAGU&GGAAGCUCGUGUUUCCGGUACUGGGUAAAAUGAUUCUACCUCUG  
((((((((((..((( ((((((&.....)))))).)))...)))))))))).. -21.80

>ENSG00000131242 hs-let-7d 704 711  
AGAGGUAGUAGGUUGCAUAGU&CCUAUAGAGUUCGUGCACUCCCCCAUCCAUGCACCUACCUC  
..((((((((((..((( ((((((&.....)))))).)))...)))))))).. -20.81

let-7d ENSMUSG00000017639 2000 nt UTR 2 hits 311 636

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

>ENSMUSG00000017639 hs-let-7d 311 318  
AGAGGUAGUAGGUUGCAUAGU&UGGAAGCUUGCAUUUAGGAUACUGAUGAAAUGAUUCUACCUCUG  
((((((((((..((( ((((((&.....)))))).)))...)))))))).. -18.90

>ENSMUSG00000017639 hs-let-7d 636 643  
AGAGGUAGUAGGUUGCAUAGU&UCGUAGUUUUCUGAGCCCUCCAGUCUUGCUUGCCUACCUC  
..((((((((((..((( ((((((&.....)))))).)))...)))))))).. -19.54

let-7d ENSRNOG00000014135 2000 nt UTR 2 hits 331 660

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

>ENSRNOG00000014135 hs-let-7d 331 338  
AGAGGUAGUAGGUUGCAUAGU&UGGAAGCUUGCAUUUCAGAUACUGAUGACAUGAUUCUACCUCUG  
((((((((((..((( ((((((&.....)))))).)))...)))))))).. -20.30

>ENSRNOG00000014135 hs-let-7d 660 667  
AGAGGUAGUAGGUUGCAUAGU&AGUUUUCUGUGCCCUCCAGCCAGUCUUGCUUGCCUACCUC  
..((((((((((..((( ((((((&.....)))))).)))...)))))))).. -23.87

miRNA: let-7d  
Human predicted target: ENSG00000135912  
Mouse predicted target: ENSMUSG00000033257  
Rat predicted target: ENSRNOG00000017129  
Hs Gene description: NM\_014640

let-7d ENSG00000135912 2000 nt UTR 2 hits 45 983

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

```

>ENSG00000135912 hs-let-7d      45      52
AGAGGUAGUAGGUUGCAUAGU&CUCCAAAAGCCUCUGCCCAGGAGCAUGGGCAUCAGCUACCUCA
.(((((((((((((.....&.....)))))))).)))))))). -22.00
>ENSG00000135912 hs-let-7d     983     990
AGAGGUAGUAGGUUGCAUAGU&CAAACCUCAGACUAAACUCUUGUACUGAACUGAUUCUACCUCC
.(((((((((((((.....&.....)))))))).)))))))). -19.10
let-7d      ENSMUSG00000033257  2000 nt UTR      3 hits 617 1137 1899
-----1-----1-----
-1----
>ENSMUSG00000033257 hs-let-7d   617     624
AGAGGUAGUAGGUUGCAUAGU&UUUGUUUAUAGUGGUCUCUGCCAACAUCGCUCAUGACUACCUCA
.(((((((((((((.....&.....)))))))).)))))))). -21.30
>ENSMUSG00000033257 hs-let-7d  1137    1144
AGAGGUAGUAGGUUGCAUAGU&UGAGCUCGUGACUGGUCCUGCACAGGAGCACUCAGCUACCUCA
.(((((((((((((.....&.....)))))))).)))))))). -24.00
>ENSMUSG00000033257 hs-let-7d  1899    1906
AGAGGUAGUAGGUUGCAUAGU&GCUUCUCAUCUCUGACAGCUAAUACUCAGUGGGCAUCUACCUCC
.(((((((((((((.....&.....)))))))).)))))))). -22.00
let-7d      ENSRNOG00000017129  2000 nt UTR      2 hits 883 1581
-----1-----1-----
-----
>ENSRNOG00000017129 hs-let-7d   883     890
AGAGGUAGUAGGUUGCAUAGU&UGAGCCCAUGACUGGUCCUACACAGGAGCACUCAGCUACCUCA
.(((((((((((((.....&.....)))))))).)))))))). -24.00
>ENSRNOG00000017129 hs-let-7d  1581    1588
AGAGGUAGUAGGUUGCAUAGU&GCUUCUCAUCUCUGACAGUUAAUACUCAACUGCAUCUACCUCC
.(((((((((((((.....&.....)))))))).)))))))). -20.10

```

miRNA: let-7d

Human predicted target: ENSG00000140548

Mouse predicted target: ENSMUSG00000048897

Rat predicted target: ENSRNOG00000014278

```

let-7d      ENSG00000140548      2964 nt UTR      2 hits 528 1859
-----1-----

```

```

1-----
>ENSG00000140548 hs-let-7d     528     535
AGAGGUAGUAGGUUGCAUAGU&CUGUCGACGGACCGCCAGGCAGGGCACUCUGCCUUCUACCUCC
.(((((((((((((.....&.....)))))))).)))))))). -23.60
>ENSG00000140548 hs-let-7d    1859    1866
AGAGGUAGUAGGUUGCAUAGU&UUCUCCUGCUGAGCAGAAGGCAUCAUCCCUGCAACUACCUCCU
(((((((((((((.....&.....)))))))).)))))))). -23.20
let-7d      ENSMUSG00000048897  2000 nt UTR      2 hits 519 1756
-----1-----1-----
-----
>ENSMUSG00000048897 hs-let-7d   519     526
AGAGGUAGUAGGUUGCAUAGU&CUAUCACUCAAGAGCCAGGCAGGGCACUCUGCCUUCUACCUCC
.(((((((((((((.....&.....)))))))).)))))))). -23.60

```



.(((((((((.(((((.....&.....)))))))). -20.20  
>ENSMUSG00000026752 hs-let-7d 794 801  
AGAGGUAGUAGGUUGCAUAGU&GAUCUACCAAGGCCUACCUUCUUCAGACCCCAUCCCUACCUCUU  
((((((((((((((...((.&...)))).)))))). -19.80  
>ENSMUSG00000026752 hs-let-7d 1228 1235  
AGAGGUAGUAGGUUGCAUAGU&AGCCAGAAAGACCUAGAAAGGAAAGGGGCAUUAACUACCUCA  
.((((((((.....((.....&.....)))))). -21.70  
>ENSMUSG00000026752 hs-let-7d 3827 3834  
AGAGGUAGUAGGUUGCAUAGU&UGUUUUUUACUCAAAUUCUACUAGGGGGAAAAAGACUACCUCUU  
((((((((.....((...((.&.....)))))). -17.40  
>ENSMUSG00000026752 hs-let-7d 4135 4142  
AGAGGUAGUAGGUUGCAUAGU&AUUUCAGGGACUCUGAUGGCAAGUGCAUCAUGAACCUACCUCU  
.((((((((.....(((((.....&.....)))))). -21.00  
>ENSMUSG00000026752 hs-let-7d 4145 4152  
AGAGGUAGUAGGUUGCAUAGU&CUCUGAUGGCAAGUGCAUCAUGAACCUACCUCAGGCUACCUC  
.((((((((((((((((.....&.....)))))). -23.90  
>ENSMUSG00000026752 hs-let-7d 4310 4317  
AGAGGUAGUAGGUUGCAUAGU&AGUUGCGGGCUCUGCAGGCUGCUCAGGCCUCUGCUACCUC  
.((((((((((((((((.....((.&.....)))))). -26.31  
let-7d ENSRNOG00000013232 5506 nt UTR 9 hits 374 774 1223 2875 3184  
3194 3359 3736 4193  
-----1-----1-----1-----  
-----1-----2-----1-----  
-1-----1-----  
>ENSRNOG00000013232 hs-let-7d 374 381  
AGAGGUAGUAGGUUGCAUAGU&CUAGGUGACUAUUUCCAUAUAUGUUGACAAAGACAACUACCUCA  
.((((((((.....((...((.&...)))). -20.71  
>ENSRNOG00000013232 hs-let-7d 774 781  
AGAGGUAGUAGGUUGCAUAGU&UAGCUGCCUGGUUUCUGACCCAGGUCUACCAGGCCUACCUC  
.((((((((((((.....((...((.&...)))). -19.52  
>ENSRNOG00000013232 hs-let-7d 1223 1230  
AGAGGUAGUAGGUUGCAUAGU&AGCCAGAAGCACCUGAAGGGAAAGGGGCUUUAACUACCUCA  
.((((((((((((.....((.....&.....)))))). -22.05  
>ENSRNOG00000013232 hs-let-7d 2875 2882  
AGAGGUAGUAGGUUGCAUAGU&UGUUUUUUUAUCAAGUUUCAUGGGGGGAAAAAGACUACCUCUU  
((((((((.....((.....&.....)))))). -19.00  
>ENSRNOG00000013232 hs-let-7d 3184 3191  
AGAGGUAGUAGGUUGCAUAGU&UUGGAUUUCAGGGACUCUGAUGGCAAGUGGUGAACCUACCUCU  
.((((((((.....((...((.&.....)))))). -19.10  
>ENSRNOG00000013232 hs-let-7d 3194 3201  
AGAGGUAGUAGGUUGCAUAGU&GGGACUCUGAUGGCAAGUGGUGAACCUACCUCAGGCUACCUC  
.((((((((((((.....((.....&.....)))))). -22.51  
>ENSRNOG00000013232 hs-let-7d 3359 3366  
AGAGGUAGUAGGUUGCAUAGU&AGUUGCGGGCUCUGCAGGCUGCUCAGGCCUCUGCUACCUC  
.((((((((((((((((.....((.&.....)))))). -26.31  
>ENSRNOG00000013232 hs-let-7d 3736 3743  
AGAGGUAGUAGGUUGCAUAGU&UAGCUGCCUGGUUUCUGACCCAGGUCUACCAGGCCUACCUC  
.((((((((((((.....((...((.&...)))). -19.52

>ENSRNOG00000013232 hs-let-7d 4193 4200  
AGAGGUAGUAGGUUGCAUAGU&AGCCAGAAGCACCUGAAGGGAAAGGGGCUUUAACUACCUCA  
.(((((((((((.....&.....)))))).....))))). -22.05

miRNA: let-7d

Human predicted target: ENSG00000163935

Mouse predicted target: ENSMUSG00000006527

Rat predicted target: ENSRNOG00000016645

Hs Gene description: SCM-RELATED GENE CONTAINING FOUR MBT DOMAINS.

[Source:RefSeq;Acc:NM\_016329]

let-7d ENSG00000163935 2000 nt UTR 2 hits 604 944

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

>ENSG00000163935 hs-let-7d 604 611  
AGAGGUAGUAGGUUGCAUAGU&AUUUUAAAUCGAUUCUUAGGAGUCCUUUGUUUACUACCUCUG  
(((((((((((.....&.....)))))).....))))). -20.60

>ENSG00000163935 hs-let-7d 944 951  
AGAGGUAGUAGGUUGCAUAGU&UUAUUUUGUGUUUACUUUCUCUAGAGUUGUUUGUCUACCUCUG  
(((((((((((.....&.....)))))).....))))). -20.31

let-7d ENSMUSG00000006527 2000 nt UTR 2 hits 578 904

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

>ENSMUSG00000006527 hs-let-7d 578 585  
AGAGGUAGUAGGUUGCAUAGU&CAUUUUAAAUCUAUUCUUAGGAGUCCUUUGUUUACUACCUCUG  
(((((((((((.....&.....)))))).....))))). -21.70

>ENSMUSG00000006527 hs-let-7d 904 911  
AGAGGUAGUAGGUUGCAUAGU&UAUUUUUUGUUUUAUUCUUCUGUUAGAGUUGUUUAACUACCUCUG  
(((((((((((.....&.....)))))).....))))). -19.92

let-7d ENSRNOG00000016645 2099 nt UTR 2 hits 559 888

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

>ENSRNOG00000016645 hs-let-7d 559 566  
AGAGGUAGUAGGUUGCAUAGU&CAUUUUAAAUCUGUCUUAGGAGUCCUUUGUUUACUACCUCUG  
(((((((((((.....&.....)))))).....))))). -20.60

>ENSRNOG00000016645 hs-let-7d 888 895  
AGAGGUAGUAGGUUGCAUAGU&UGGUUUUAUGCUUAGUUUUCUGUAGAGUUGUUUAACUACCUCUG  
(((((((((((.....&.....)))))).....))))). -20.09

miRNA: let-7d

Human predicted target: ENSG00000166106

Mouse predicted target: ENSMUSG00000033453

Rat predicted target: ENSRNOG00000009892

Hs Gene description: ADAMTS-15 PRECURSOR (EC 3.4.24.-) (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 15) (ADAM-TS 15) (ADAM-TS15).

[Source:SWISSPROT;Acc:Q8TE58] NM\_139055

let-7d ENSG00000166106 2000 nt UTR 2 hits 206 1185



-----1-----1-----  
-----  
>ENSG00000166106 hs-let-7d 206 213  
AGAGGUAGUAGGUUGCAUAGU&CUGGGCAGAGGGAAGCCCAGGAACUCCCGCACAGUCUACCUCA  
.(((((((...(((((&.....))))))....))))). -20.10  
>ENSG00000166106 hs-let-7d 1185 1192  
AGAGGUAGUAGGUUGCAUAGU&CGUUGCAUCCUAGGCCUUAGCUUCUCCACUGUUUGCUACCUCA  
.(((((((...(((((&.....))))))....))))). -21.00  
let-7d ENSMUSG00000033453 5361 nt UTR 2 hits 692 1642  
-----1-----1-----

-----  
>ENSMUSG00000033453 hs-let-7d 692 699  
AGAGGUAGUAGGUUGCAUAGU&UGGACUGGGCAGGGGGAAGUUAACUAAUGCACAGUCUACCUCA  
.(((((((...(((((&.....))))))....))))). -23.80  
>ENSMUSG00000033453 hs-let-7d 1642 1649  
AGAGGUAGUAGGUUGCAUAGU&CAGUUCUCUGGUAGGUAAACGGGCUUCAUUGUUUGCUACCUCA  
.(((((((...(((((&.....))))))....))))). -21.90  
let-7d ENSRNOG00000009892 4706 nt UTR 3 hits 194 1084 3012  
-----1-----1-----

-----  
>ENSRNOG00000009892 hs-let-7d 194 201  
AGAGGUAGUAGGUUGCAUAGU&UGGACUCGGCAGGGGGAAGCUAACUAAUGCACAGUCUACCUCA  
.(((((((...(((((&.....))))))....))))). -23.80  
>ENSRNOG00000009892 hs-let-7d 1084 1091  
AGAGGUAGUAGGUUGCAUAGU&CAUCUCUCUGGUAGGUAAACGGGGCUUCAUUGUUUGCUACCUCA  
.(((((((...(((((&.....))))))....))))). -22.20  
>ENSRNOG00000009892 hs-let-7d 3012 3019  
AGAGGUAGUAGGUUGCAUAGU&CAUCUCUCUGGUAGGUAAACGGGGCUUCAUUGUUUGCUACCUCA  
.(((((((...(((((&.....))))))....))))). -22.20

miRNA: let-7d  
Human predicted target: ENSG00000169635  
Mouse predicted target: ENSMUSG00000050240  
Rat predicted target: ENSRNOG00000001863  
Hs Gene description: HYPERMETHYLATED IN CANCER 2 PROTEIN (HIC-2) (HIC-3)  
(HIC1-RELATED GENE ON CHROMOSOME 22). [Source:SWISSPROT;Acc:Q96JB3]  
let-7d ENSG00000169635 2050 nt UTR 3 hits 211 543 1158  
-----1-----1-----1-----

-----  
>ENSG00000169635 hs-let-7d 211 218  
AGAGGUAGUAGGUUGCAUAGU&AGCCGAGAGGAGGGAAGCCAGGGGUCCCAGCCCGUCUACCUCC  
.(((((((...(((((&.....))))))....))))). -22.00  
>ENSG00000169635 hs-let-7d 543 550  
AGAGGUAGUAGGUUGCAUAGU&CACUGGCGCUGGGACAGUCAGGGUGACCCACCGCCUACCUCC  
((((((((...(((((&.....))))))....))))). -21.84

>ENSG00000169635 hs-let-7d 1158 1165  
AGAGGUAGUAGGUUGCAUAGU&CCUCGCUGAACAAAGGUGGAGACUUCUGACC UUUUGCUACCUCUU  
(((((((((((...((...((...&...))))))...)))))...))))) -21.40  
let-7d ENSMUSG00000050240 2000 nt UTR 3 hits 307 635 1286  
-----1-----1-----1-----1-----

>ENSMUSG00000050240 hs-let-7d 307 314  
AGAGGUAGUAGGUUGCAUAGU&AGUCUAGCCCUAUGCAUGUGGUGCUGGUGACUAUUCUACCUC  
(((((((((((...((...((...&...))))))...)))))...))))) -23.90  
>ENSMUSG00000050240 hs-let-7d 635 642  
AGAGGUAGUAGGUUGCAUAGU&UAGCUGGCACUGGAACAGUCAGGGUGACCCAUUGCCUACCUCUC  
(((((((((((...((...((...&...))))))...)))))...))))) -21.40  
>ENSMUSG00000050240 hs-let-7d 1286 1293  
AGAGGUAGUAGGUUGCAUAGU&CUCACUGAACAUUGGUGGGGAGCCUUCUGACC UUUUGCUACCUCUU  
(((((((((((...((...&...))))))...)))))...))))) -20.40  
let-7d ENSRNOG00000001863 2000 nt UTR 3 hits 197 511 1139  
-----1-----1-----1-----1-----

>ENSRNOG00000001863 hs-let-7d 197 204  
AGAGGUAGUAGGUUGCAUAGU&AGUCUGGCCUCUGCAUGUGGUGCUGGUGACUACUCUACCUC  
(((((((((((...((...((...&...))))))...)))))...))))) -23.90  
>ENSRNOG00000001863 hs-let-7d 511 518  
AGAGGUAGUAGGUUGCAUAGU&UAGCUGGCACUGGAACAGUCAGGGUGACCCAUUGCCUACCUCUC  
(((((((((((...((...((...&...))))))...)))))...))))) -21.40  
>ENSRNOG00000001863 hs-let-7d 1139 1146  
AGAGGUAGUAGGUUGCAUAGU&UUCACUGAACAUUGGAGAGCCUUCUGACC UUUUGCUACCUCUU  
(((((((((((...((...&...))))))...)))))...))))) -20.40

miRNA: let-7d

Human predicted target: ENSG00000174498  
Mouse predicted target: ENSMUSG00000032394  
Rat predicted target: ENSRNOG00000013322  
Hs Gene description: SIMILAR TO PUTATIVE NEURONAL CELL ADHESION MOLECULE.  
[Source:SPTREMBL;Acc:Q8IVU1]  
let-7d ENSG00000174498 2458 nt UTR 4 hits 452 534 685 762  
-----1--1-----1--1-----1-----1-----

>ENSG00000174498 hs-let-7d 452 459  
AGAGGUAGUAGGUUGCAUAGU&UCAGGAUGGAUUUUUGCUGUUUUGGCUCUCAGCACC UACCUCA  
(((((((((((...((...((...&...))))))...)))))...))))) -20.80  
>ENSG00000174498 hs-let-7d 534 541  
AGAGGUAGUAGGUUGCAUAGU&UCAGCCCCUACCCACAGAGCCCGAAUGCACUCCUACCUCA  
(((((((((((...((...((...&...))))))...)))))...))))) -22.20  
>ENSG00000174498 hs-let-7d 685 692  
AGAGGUAGUAGGUUGCAUAGU&AGCACUCCCCAUUCCAGAUGUGAAAGAAAUGUCUACCUCA  
(((((((((((...((...((...&...))))))...)))))...))))) -18.70  
>ENSG00000174498 hs-let-7d 762 769

AGAGGUAGUAGGUUGCAUAGU&GACCUGCCUCCCCGCCCUCCUGCCCACAGCCCACCUACCUCUC  
((((((((((..((((.....&.....))))))..)))))))). -22.20  
let-7d ENSMUSG00000032394 2523 nt UTR 4 hits 388 468 633 714  
-----1--1-----1--1-----

>ENSMUSG00000032394 hs-let-7d 388 395  
AGAGGUAGUAGGUUGCAUAGU&CAGGAUGGAUUUUGAGCUGUUGUGACUCUCAGCACCUACCUCA  
.((((((((((..((((.....&.....))))))..)))))))). -22.70  
>ENSMUSG00000032394 hs-let-7d 468 475  
AGAGGUAGUAGGUUGCAUAGU&CCUCCGCCUCUACCCACAGAGCCCGAAAGCACUCCUACCUCA  
.((((((((((..((((.....&.....))))))..)))))))). -19.10  
>ENSMUSG00000032394 hs-let-7d 633 640  
AGAGGUAGUAGGUUGCAUAGU&ACCACUGUCCCAACUCCAAGUGUGAAAGAAACUGUCUACCUCA  
.((((((((((..((((.....&.....))))))..)))))))). -21.80  
>ENSMUSG00000032394 hs-let-7d 714 721  
AGAGGUAGUAGGUUGCAUAGU&GACCCUCCCCAGCCUCCUUAUCCUGGCCUAGCCUACCUCUC  
((((((((((((((..((((.....&.....))))))..)))))))). -21.90  
let-7d ENSRNOG00000013322 2000 nt UTR 4 hits 470 550 703 788  
-----1--1-----1--1-----

>ENSRNOG00000013322 hs-let-7d 470 477  
AGAGGUAGUAGGUUGCAUAGU&CUCAGGAUGGAUUUUUAGCUGUUGUGACUCAGCACCUACCUCA  
.((((((((((..((((.....&.....))))))..)))))))). -23.60  
>ENSRNOG00000013322 hs-let-7d 550 557  
AGAGGUAGUAGGUUGCAUAGU&CCUCAGCCUCUACCCACAGAGCCCGAAAGCACUCCUACCUCA  
.((((((((((..((((.....&.....))))))..)))))))). -19.10  
>ENSRNOG00000013322 hs-let-7d 703 710  
AGAGGUAGUAGGUUGCAUAGU&ACCACUGUCCCAACUCCAAGUGUGAAAGAAACUGUCUACCUCA  
.((((((((((..((((.....&.....))))))..)))))))). -21.80  
>ENSRNOG00000013322 hs-let-7d 788 795  
AGAGGUAGUAGGUUGCAUAGU&CUCCUUGGCCUCCUCCUUAUCCUGGCCUGGCCUGGCCUACCUCUC  
((((((((((((((..((((.....&.....))))))..)))))))). -23.60

miRNA: let-7d  
Human predicted target: ENSG00000182541  
Mouse predicted target: ENSMUSG00000020451  
Rat predicted target: ENSRNOG00000019000  
Hs Gene description: LIM DOMAIN KINASE 2 (EC 2.7.1.-) (LIMK-2).  
[Source:SWISSPROT;Acc:P53671] NM\_016733  
let-7d ENSG00000182541 3637 nt UTR 2 hits 1098 2572  
-----1-----

>ENSG00000182541 hs-let-7d 1098 1105  
AGAGGUAGUAGGUUGCAUAGU&AGAGAGAUAGCUCUCCUGAGCUGGGCCAUCUGACUUCUACCUCU  
.((((((((((((((..((((.....&.....))))))..)))))))). -22.90  
>ENSG00000182541 hs-let-7d 2572 2579  
AGAGGUAGUAGGUUGCAUAGU&GCCUUUAACAAGGGCUGUCUAGAUAUUAUUUAACUACCUCU

.((((((((((..(((..((((&.....))))))..))))). -17.60  
let-7d ENSMUSG00000020451 3482 nt UTR 2 hits 140 976  
-----1-----1-----

>ENSMUSG00000020451 hs-let-7d 140 147  
AGAGGUAGUAGGUUGCAUAGU&GAAGGCUUGCUUAGAGGCACAACAAGCCAUCCCUACUACCUCC  
.((((((((((..(((..((((&.....))))))..))))). -24.70

>ENSMUSG00000020451 hs-let-7d 976 983  
AGAGGUAGUAGGUUGCAUAGU&AGGAAAAGAACACCCUGAGCUGGGCCUUGUAGAUUCUACCUUU  
((((((((((..(((..((((&.....))))))..))))). -21.90  
let-7d ENSRNOG00000019000 4867 nt UTR 2 hits 958 1727  
-----1-----1-----

>ENSRNOG00000019000 hs-let-7d 958 965  
AGAGGUAGUAGGUUGCAUAGU&AUUGACGGCUUGCUUAGAAGCAGAACAAGCCAUCCCUACCUCC  
.((((((((((..(((..((((&.....))))))..))))). -19.13

>ENSRNOG00000019000 hs-let-7d 1727 1734  
AGAGGUAGUAGGUUGCAUAGU&AUGAAGAGAGCUCCUGAGCUGGACCUUGUAGAGUCUACCUCUG  
((((((((((..(((..((((&.....))))))..))))). -22.90

miRNA: let-7e

Human predicted target: ENSG00000022567

Mouse predicted target: ENSMUSG00000036649

Rat predicted target: ENSRNOG00000007818

let-7e ENSG00000022567 7016 nt UTR 2 hits 1056 5277  
-----1-----  
-----1-----

>ENSG00000022567 hs-let-7e 1056 1063  
UGAGGUAGGAGGUUGUAUAGU&CCAGCGGGCCUGCCUCCCAAGUCCCGCCGCAAGGCUACCUCGG  
((((((((((..(((..((((&.....))))))..))))). -21.16

>ENSG00000022567 hs-let-7e 5277 5284  
UGAGGUAGGAGGUUGUAUAGU&GCCUGUUCUGGUGGAGCCGGGGUGGGGCCCGCGGUCUACCUCU  
.((((((((((..(((..((((&.....))))))..))))). -22.20  
let-7e ENSMUSG00000036649 2000 nt UTR 2 hits 896 952  
-----1-----1-----

>ENSMUSG00000036649 hs-let-7e 896 903  
UGAGGUAGGAGGUUGUAUAGU&CAGGUGAGCAUCGGCUCCCGAGUCCUGCUGCACGGCUACCUCGA  
((((((((((..(((..(((.....&.....))))))..))))). -19.70

>ENSMUSG00000036649 hs-let-7e 952 959  
UGAGGUAGGAGGUUGUAUAGU&GUGGCAUCAGAGCAGGGCGCGGGAAGGGGCCGAGCCUACCUCC  
.((((((((((..(((..(((.....&.....))))))..))))). -24.20  
let-7e ENSRNOG00000007818 2000 nt UTR 2 hits 892 948

```

>ENSRNOG00000007818 hs-let-7e      892      899
UGAGGUAGGAGGUUGUAUAGU&CCAGGUGAGCAUUGGCUCCCAAUCCUGCUGCAAGGCUACCUCGA
((((((((.....(((((((((&.....)))))))).)))))))). -19.50
>ENSRNOG00000007818 hs-let-7e      948      955
UGAGGUAGGAGGUUGUAUAGU&UGGCAUCAGAGCAGGGCAGGUGAAGGUGCCGGGGCCUACCUC
(((((((((&.....)))))))). -22.00

```

miRNA: let-7e

Human predicted target: ENSG00000082153

Mouse predicted target: ENSMUSG00000026033

Rat predicted target: ENSRNOG00000013977

Hs Gene description: BASIC LEUCINE ZIPPER AND W2 DOMAINS 1; BASIC LEUCINE-ZIPPER PROTEIN BZAP45. [Source:RefSeq;Acc:NM\_014670]

let-7e ENSG00000082153 2000 nt UTR 2 hits 84 251

```

>ENSG00000082153 hs-let-7e      84      91
UGAGGUAGGAGGUUGUAUAGU&UGUCAUGUCUCAUGUGUCCUGGUUCUUAACAUCUCCUACCUC
((((((((((((&.....)))))))).)))))))). -27.50
>ENSG00000082153 hs-let-7e      251      258
UGAGGUAGGAGGUUGUAUAGU&GAAUCUAAUGUUGCAUAGUCUUUUCAGUUAUCUCCUACCUC
((((((((((((&.....)))))))).)))))))). -21.80
let-7e ENSMUSG00000026033 2413 nt UTR 2 hits 84 252

```

```

>ENSMUSG00000026033 hs-let-7e      84      91
UGAGGUAGGAGGUUGUAUAGU&UGUCAUGUCUCAUGUGUCCUGGUUCUUAACAUCUCCUACCUC
((((((((((((&.....)))))))).)))))))). -27.50
>ENSMUSG00000026033 hs-let-7e      252      259
UGAGGUAGGAGGUUGUAUAGU&UGAAUCUGAUGUUGCAUUGGUUUUCAGUUAACCUCCUACCUC
((((((((((((&.....)))))))).)))))))). -24.40
let-7e ENSRNOG00000013977 2000 nt UTR 2 hits 760 920

```

```

>ENSRNOG00000013977 hs-let-7e      760      767
UGAGGUAGGAGGUUGUAUAGU&UGUCAUGUCUCAUGUGUCCUGGUUCUUAACAUCUCCUACCUC
((((((((((((&.....)))))))).)))))))). -27.50
>ENSRNOG00000013977 hs-let-7e      920      927
UGAGGUAGGAGGUUGUAUAGU&ACGGAAGCUGGCGCUGCACUGGUCUUCAGUUCCUCUACCUC
(((((((((&.....)))))))). -20.90

```

miRNA: let-7e

Human predicted target: ENSG00000100823

Mouse predicted target: ENSMUSG00000035960

Rat predicted target: ENSRNOG00000009663

Hs Gene description: DNA-(APURINIC OR APYRIMIDINIC SITE) LYASE (EC 4.2.99.18) (AP ENDONUCLEASE 1) (APEX NUCLEASE) (APEN) (REF-1 PROTEIN).

[Source:SWISSPROT;Acc:P27695] NM\_080649

let-7e ENSG00000100823 2259 nt UTR 2 hits 911 1250

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

>ENSG00000100823 hs-let-7e 911 918
UGAGGUAGGAGGUUGUAUAGU&GCCCCUCCAAACCUAAGUGAGGGGCCUGGUUCCUCCUACCUCU
.((((((((((((.....((.&.....))))))))))))). -24.50

>ENSG00000100823 hs-let-7e 1250 1257
UGAGGUAGGAGGUUGUAUAGU&GAAGAAAAGAAAGAUGGGGUUAAUGUUGGUCUCCACUACCUCU
.((((((((((((.....&.....))))))))). -18.90

let-7e ENSMUSG000000035960 2165 nt UTR 2 hits 308 884

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

>ENSMUSG000000035960 hs-let-7e 308 315
UGAGGUAGGAGGUUGUAUAGU&CAGAUGAGUCCCUAACCUCUCCCAAGACAGUGACCCUACCUCAG
((((((((((((.....&.....))))))))). -22.89

>ENSMUSG000000035960 hs-let-7e 884 891
UGAGGUAGGAGGUUGUAUAGU&UCCCAAACAUAGGAAGGAAGGGACUGCUUCCUCCUACCUCU
.((((((((((((.....&.....))))))))). -25.10

let-7e ENSRNOG00000009663 2102 nt UTR 2 hits 246 734

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

>ENSRNOG00000009663 hs-let-7e 246 253
UGAGGUAGGAGGUUGUAUAGU&CAGAUGAAUCCUGACCUCUCCCAAGACAGUGACCCUACCUCAG
((((((((((((.....&.....))))))))). -22.49

>ENSRNOG00000009663 hs-let-7e 734 741
UGAGGUAGGAGGUUGUAUAGU&ACCCCUCCAAACCUAAGUCAGGGGCUGGUUCCUCCUACCUCU
.((((((((((((.....((.&.....))))))))). -26.00

miRNA: let-7e

Human predicted target: ENSG00000119906

Mouse predicted target: ENSMUSG000000036097

Rat predicted target: ENSRNOG000000014489

Hs Gene description: C10ORF6. [Source:RefSeq;Acc:NM\_018121] NM\_144592

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

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

>ENSG00000119906 hs-let-7e 1326 1333
UGAGGUAGGAGGUUGUAUAGU&UUGCUGUUUGAGAGGCAAGAAAUAUUUAACUUCUACCUCU
.((((((((((((.....&.....))))))))). -26.10

>ENSG00000119906 hs-let-7e 1560 1567
UGAGGUAGGAGGUUGUAUAGU&UGUUGUUUACUGGUAAGAAUUAUUAUCUUGAUACUACCUCU
.((((((((((((.....((.&.....))))))))). -18.20

let-7e ENSMUSG000000036097 4668 nt UTR 2 hits 1314 1542

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

>ENSMUSG00000036097 hs-let-7e 1314 1321  
UGAGGUAGGAGGUUGUAUAGU&GAGAGGAGAAAAUAAGUUCUGAGAGCUAACUCUUUCUACCUCU  
.(((((((((((..(((((&.....)))))))).)))))))). -23.90  
>ENSMUSG00000036097 hs-let-7e 1542 1549  
UGAGGUAGGAGGUUGUAUAGU&GUGUUGAGUUUACUGGUAAGAAUAUUGUCUUGAUGCUACCUCU  
.(((((((((((..(((((...&.....)))))))).)))).)))). -18.40  
let-7e ENSRNOG00000014489 4549 nt UTR 2 hits 1194 1424  
-----1-----1-----

>ENSRNOG00000014489 hs-let-7e 1194 1201  
UGAGGUAGGAGGUUGUAUAGU&UUGAGAGGAGAAAAUAAGUUCUGAGAGCUAACUUUCUACCUCU  
.(((((((((((.....&.....)))))))).)))))))). -24.40  
>ENSRNOG00000014489 hs-let-7e 1424 1431  
UGAGGUAGGAGGUUGUAUAGU&GUGUUGAGUUUACUGGUAAGAAUAUUGUCUUGAUGCUACCUCU  
.(((((((((((..(((((...&.....)))))))).)))).)))). -18.40

miRNA: let-7e  
Human predicted target: ENSG00000131242  
Mouse predicted target: ENSMUSG00000017639  
Rat predicted target: ENSRNOG00000014135  
Hs Gene description: RAB11-FAMILY INTERACTING PROTEIN 4.  
[Source:RefSeq;Acc:NM\_032932]  
let-7e ENSG00000131242 8479 nt UTR 2 hits 344 704  
-----1-----1-----

>ENSG00000131242 hs-let-7e 344 351  
UGAGGUAGGAGGUUGUAUAGU&GGAAGCUCGUGUUUCCGGUACUGGGUAAAUGAUUCUACCUCU  
.(((((((((((..(((((&.....)))))))).)))).)))). -20.50  
>ENSG00000131242 hs-let-7e 704 711  
UGAGGUAGGAGGUUGUAUAGU&CCUAUAGAGUUCGUGCACUCCCCAUCCAUGCUACCUACCUC  
.(((((((((((..(((((...&.....)))))))).)))).)))). -22.31  
let-7e ENSMUSG00000017639 2000 nt UTR 2 hits 311 636  
-----1-----1-----

>ENSMUSG00000017639 hs-let-7e 311 318  
UGAGGUAGGAGGUUGUAUAGU&UGGAAGCUUGCAUUUAGGAUACUGAUGAAAUGAUUCUACCUCU  
.(((((((((((..(((((&.....)))))))).)))).)))). -19.50  
>ENSMUSG00000017639 hs-let-7e 636 643  
UGAGGUAGGAGGUUGUAUAGU&UCGUAGUUUUCUGAGCCCCUCCAGUCUUGCUUGCCUACCUC  
.(((((((((((.....&.....)))))))).)))))))). -21.10

let-7e ENSRNOG00000014135 2000 nt UTR 2 hits 331 660  
-----1-----1-----  
-----  
>ENSRNOG00000014135 hs-let-7e 331 338  
UGAGGUAGGAGGUUGUAUAGU&UGGAAGCUUGCAUUUCAGAUACUGAUGACAUGAUUCUACCUCU  
.(((((((((((((.....&.....))))))..)).....))))). -22.80  
>ENSRNOG00000014135 hs-let-7e 660 667  
UGAGGUAGGAGGUUGUAUAGU&AGUUUUCUGUGCCCUUCCAGCCAGUCUUGCUUGCCUACCUC  
.(((((((((((((.....&.....))))))..)).....))))). -23.87

miRNA: let-7e  
Human predicted target: ENSG00000135912  
Mouse predicted target: ENSMUSG00000033257  
Rat predicted target: ENSRNOG00000017129  
Hs Gene description: NM\_014640

let-7e ENSG00000135912 2000 nt UTR 2 hits 45 983  
-1-----1-----  
-----  
>ENSG00000135912 hs-let-7e 45 52  
UGAGGUAGGAGGUUGUAUAGU&CUCCAAAAGCCUCUGCCCAGGAGCAUGGGCAUCAGCUACCUCAC  
(((((((((((((.....&.....))))))..)).....))))). -21.14  
>ENSG00000135912 hs-let-7e 983 990  
UGAGGUAGGAGGUUGUAUAGU&CAAACCUCAGACUAAACUCUUGUACUGAACUGAUUCUACCUC  
.(((((((((((((.....&.....))))))..)).....))))). -21.80

let-7e ENSMUSG00000033257 2000 nt UTR 3 hits 617 1137 1899  
-----1-----1-----  
-1----  
>ENSMUSG00000033257 hs-let-7e 617 624  
UGAGGUAGGAGGUUGUAUAGU&UUUGUUUAGUGGUCUCUGCCAACAUCGCUCAUGACUACCUCAA  
(((((((((((((.....&.....))))))..)).....))))). -20.00  
>ENSMUSG00000033257 hs-let-7e 1137 1144  
UGAGGUAGGAGGUUGUAUAGU&UGAGCUCGUGACUGGUCCUGCACAGGAGCACUCAGCUACCUCAA  
(((((((((((((.....&.....))))))..)).....))))). -21.90  
>ENSMUSG00000033257 hs-let-7e 1899 1906  
UGAGGUAGGAGGUUGUAUAGU&GCUUCUCAUCUCUGACAGCUAAUACUCAGUGGCAUCUACCUC  
.(((((((((((((.....&.....))))))..)).....))))). -19.20

let-7e ENSRNOG00000017129 2000 nt UTR 2 hits 883 1581  
-----1-----1-----  
-----  
>ENSRNOG00000017129 hs-let-7e 883 890  
UGAGGUAGGAGGUUGUAUAGU&UGAGCCCAUGACUGGUCCUACACAGGAGCACUCAGCUACCUCAA  
(((((((((((((.....&.....))))))..)).....))))). -22.20  
>ENSRNOG00000017129 hs-let-7e 1581 1588  
UGAGGUAGGAGGUUGUAUAGU&GCUUCUCAUCUCUGACAGUUAAUACUCAACUGCAUCUACCUC  
.(((((((((((((.....&.....))))))..)).....))))). -20.30



miRNA: let-7e

Human predicted target: ENSG00000140548

Mouse predicted target: ENSMUSG00000048897

Rat predicted target: ENSRNOG00000014278

let-7e ENSG00000140548 2964 nt UTR 2 hits 528 1859

```

-----1-----
1-----
>ENSG00000140548 hs-let-7e 528 535
UGAGGUAGGAGGUUGUAUAGU&CUGUCGACGGACCGCCAGGCAGGGCACUCUGCCUUCUACCUC
.((((((((((((((((((...((&.....))))))....)))))))). -25.70
>ENSG00000140548 hs-let-7e 1859 1866
UGAGGUAGGAGGUUGUAUAGU&UUCUCCUGCUGAGCAGAAGGCAUCAUCCCUGCAACUACCUCU
.(((((((.((((((((.((((&.....))))).))))....)))))))). -20.30

```

let-7e ENSMUSG00000048897 2000 nt UTR 2 hits 519 1756

```

-----1-----1-----
-----
>ENSMUSG00000048897 hs-let-7e 519 526
UGAGGUAGGAGGUUGUAUAGU&CUAUCACUCAAGAGCCAGGCAGGGCACUCUGCCUUCUACCUC
.((((((((((((((((((...((&.....))))))....)))))))). -25.70
>ENSMUSG00000048897 hs-let-7e 1756 1763
UGAGGUAGGAGGUUGUAUAGU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUGCAAACUACCUCU
.(((((((.((((((((.((((&.....))))).))))....)))))))). -19.70

```

let-7e ENSRNOG00000014278 4055 nt UTR 3 hits 550 1647 2696

```

-----1-----1-----
-----
>ENSRNOG00000014278 hs-let-7e 550 557
UGAGGUAGGAGGUUGUAUAGU&CUGUCACUCAAGAGCCAGGCAGGGCACUCUGCCUUCUACCUC
.((((((((((((((((((...((&.....))))))....)))))))). -25.70
>ENSRNOG00000014278 hs-let-7e 1647 1654
UGAGGUAGGAGGUUGUAUAGU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUGCAAACUACCUCU
.(((((((.((((((((.((((&.....))))).))))....)))))))). -19.70
>ENSRNOG00000014278 hs-let-7e 2696 2703
UGAGGUAGGAGGUUGUAUAGU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUGCAAACUACCUCU
.(((((((.((((((((.((((&.....))))).))))....)))))))). -19.70

```

miRNA: let-7e

Human predicted target: ENSG00000148200

Mouse predicted target: ENSMUSG00000026752

Rat predicted target: ENSRNOG00000013232

Hs Gene description: ORPHAN NUCLEAR RECEPTOR NR6A1 (GERM CELL NUCLEAR FACTOR) (GCNF) (RETINOID RECEPTOR-RELATED TESTIS SPECIFIC RECEPTOR) (RTR).

[Source:SWISSPROT;Acc:Q15406] NM\_033335

let-7e ENSG00000148200 2000 nt UTR 3 hits 388 1359 1387

```

-----1-----11-----
-----
>ENSG00000148200 hs-let-7e 388 395

```

UGAGGUAGGAGGUUGUAUAGU&UAAGAUGACUAUUUCCAUAUAUGUUGACAAAGAUGACUACCUCAA  
((((((((((..((((((&.....)))))).....))))))..)))). -20.41  
>ENSG00000148200 hs-let-7e 1359 1366  
UGAGGUAGGAGGUUGUAUAGU&GCCAGAAGCACCUGGAAGGGAAGGGGGCUUUAACUACCUCAG  
(((((((((((((..&.....)))))).....))))..)))). -20.10  
>ENSG00000148200 hs-let-7e 1387 1394  
UGAGGUAGGAGGUUGUAUAGU&CUUUAACUACCUCAGGUUCCUAAUGGCCCGGCUGCUACCUCU  
..(((((((((((((..&.....)))))).....))))..)))). -21.20  
let-7e ENSMUSG00000026752 6457 nt UTR 8 hits 101 371 794 1228 3827  
4135 4145 4310  
-----1-----1-----1-----1-----  
-----1-----2-----1-----  
-----  
>ENSMUSG00000026752 hs-let-7e 101 108  
UGAGGUAGGAGGUUGUAUAGU&AAGAGCCAGAGACCAAGAUGGAGACUGUGGAGCAGCUACCUC  
..(((((((((((((..&.....)))))).....))))..)))). -24.10  
>ENSMUSG00000026752 hs-let-7e 371 378  
UGAGGUAGGAGGUUGUAUAGU&CUAGAUGAGUAUUUCCAUAUAUGUUGACAAAGACAACUACCUCAA  
((((((((((..(((((&.....)))))).....))))..)))). -20.70  
>ENSMUSG00000026752 hs-let-7e 794 801  
UGAGGUAGGAGGUUGUAUAGU&GAUCUACCAAGGCCUACCUUCUUCAGACCCCAUCCCUACCUCU  
..(((((((((((((..&.....)))))).....))))..)))). -21.30  
>ENSMUSG00000026752 hs-let-7e 1228 1235  
UGAGGUAGGAGGUUGUAUAGU&AGCCAGAAAGACCUAGAAAGGAAAGGGCAUUAACUACCUCAU  
(((((((((((((..&.....)))))).....))))..)))). -20.15  
>ENSMUSG00000026752 hs-let-7e 3827 3834  
UGAGGUAGGAGGUUGUAUAGU&UGUUUUUUACUCAAAUUCUCCUUGGGGAAAAAGACUACCUCU  
..(((((((((((((..&.....)))))).....))))..)))). -15.69  
>ENSMUSG00000026752 hs-let-7e 4135 4142  
UGAGGUAGGAGGUUGUAUAGU&AUUUCAGGGACUCUGAUGGCAAGUGCAUCAUGAACCUACCUCAG  
((((((((((..(((((&.....)))))).....))))..)))). -23.00  
>ENSMUSG00000026752 hs-let-7e 4145 4152  
UGAGGUAGGAGGUUGUAUAGU&CUCUGAUGGCAAGUGCAUCAUGAACCUACCUCAGGCUACCUC  
..(((((((((((((..&.....)))))).....))))..)))). -22.60  
>ENSMUSG00000026752 hs-let-7e 4310 4317  
UGAGGUAGGAGGUUGUAUAGU&AGUUGCGGGCUCUGCAGGCUCUCAGGCCUCUGCUACCUC  
..(((((((((((((..&.....)))))).....))))..)))). -23.20  
let-7e ENSRNOG00000013232 5506 nt UTR 9 hits 374 774 1223 2875 3184  
3194 3359 3736 4193  
-----1-----1-----1-----  
-----1-----2-----1-----  
-----  
>ENSRNOG00000013232 hs-let-7e 374 381  
UGAGGUAGGAGGUUGUAUAGU&CUAGGUGACUAUUUCCAUAUAUGUUGACAAAGACAACUACCUCAG  
((((((((((..(((((&.....)))))).....))))..)))). -20.51  
>ENSRNOG00000013232 hs-let-7e 774 781  
UGAGGUAGGAGGUUGUAUAGU&UAGCUGCCUGGUUCCUGACCCAGGUCUACCAGGCCUACCUC

```
.(((((((((.(((.....&.....)))))))). -21.20
>ENSRNOG00000013232 hs-let-7e 1223 1230
UGAGGUAGGAGGUUGUAUAGU&AGCCAGAAGCACCUAGAAGGGAAAGGGGCCUUUAACUACCUCAU
(((((((((((((.(((.....&.....)))))))). -19.80
>ENSRNOG00000013232 hs-let-7e 2875 2882
UGAGGUAGGAGGUUGUAUAGU&UGUUUUUUUAUCAAGUUUCCAUGGGGGGAAAAAGACUACCUCU
.(((((((((((((.(((.....&.....)))))))). -15.76
>ENSRNOG00000013232 hs-let-7e 3184 3191
UGAGGUAGGAGGUUGUAUAGU&UUGGAUUUCAGGGACUCUGAUGGCAAGUGGUGAACCUACCUCAG
(((((((((((((.(((.....&.....)))))))). -21.50
>ENSRNOG00000013232 hs-let-7e 3194 3201
UGAGGUAGGAGGUUGUAUAGU&GGGACUCUGAUGGCAAGUGGUGAACCUACCUCAGGCCUACCUC
.(((((((((((((.(((.....&.....)))))))). -21.60
>ENSRNOG00000013232 hs-let-7e 3359 3366
UGAGGUAGGAGGUUGUAUAGU&AGUUGGCGGGCUCUGCAGGCUGCUCAGGCCUCUGCUACCUC
.(((((((((((((.(((.....&.....)))))))). -23.20
>ENSRNOG00000013232 hs-let-7e 3736 3743
UGAGGUAGGAGGUUGUAUAGU&UAGCUGCCUGUUUCCUGACCCAGGUCUACCAGGCCUACCUC
.(((((((((((((.(((.....&.....)))))))). -21.20
>ENSRNOG00000013232 hs-let-7e 4193 4200
UGAGGUAGGAGGUUGUAUAGU&AGCCAGAAGCACCUAGAAGGGAAAGGGGCCUUUAACUACCUCAU
(((((((((((((((((.(((.....&.....)))))))). -19.80
```

miRNA: let-7e

Human predicted target: ENSG00000163935

Mouse predicted target: ENSMUSG00000006527

Rat predicted target: ENSRNOG00000016645

Hs Gene description: SCM-RELATED GENE CONTAINING FOUR MBT DOMAINS.

[Source:RefSeq;Acc:NM\_016329]

let-7e ENSG00000163935 2000 nt UTR 2 hits 604 944

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

```
>ENSG00000163935 hs-let-7e 604 611
UGAGGUAGGAGGUUGUAUAGU&AUUUUAAAUCGAUUCUUAGGAGUCCUUUGUUUACUACCUCU
.(((((((((((((.(((.....&.....)))))))). -17.10
```

```
>ENSG00000163935 hs-let-7e 944 951
UGAGGUAGGAGGUUGUAUAGU&UUAUUUUGUGUUUACUUUUCUCUAGAGUUGUUUGUCUACCUCU
.(((((((((((((.(((.....&.....)))))))). -16.87
```

let-7e ENSMUSG00000006527 2000 nt UTR 2 hits 578 904

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

```
>ENSMUSG00000006527 hs-let-7e 578 585
UGAGGUAGGAGGUUGUAUAGU&CAUUUUAAAUCUAUUCUUAGGAGUCCUUGGUUUACUACCUCU
.(((((((((((((.(((.....&.....)))))))). -17.10
```

```
>ENSMUSG00000006527 hs-let-7e 904 911
UGAGGUAGGAGGUUGUAUAGU&UAUUUUAUGUUUAUUCUUCUGUUAGAGUUGUUUAACUACCUCU
.(((((((((((((.(((.....&.....)))))))). -16.40
```

let-7e ENSRNOG00000016645 2099 nt UTR 2 hits 559 888  
-----1-----1-----  
-----

>ENSRNOG00000016645 hs-let-7e 559 566  
UGAGGUAGGAGGUUGUAUAGU&CAUUUUAAAAUCUGUCUUAGGAGUCCUUUGUUUACUACCUCU  
.((((((((((.....&.....)))))).....))))). -17.10  
>ENSRNOG00000016645 hs-let-7e 888 895  
UGAGGUAGGAGGUUGUAUAGU&UGGUUUUAUGCUUAGUUUUCUGUAGAGUUGUUUAACUACCUCU  
.(((((((..(..(((((.&.....)))))).)..).....)))))). -18.80

miRNA: let-7e

Human predicted target: ENSG00000166106  
Mouse predicted target: ENSMUSG00000033453  
Rat predicted target: ENSRNOG00000009892  
Hs Gene description: ADAMTS-15 PRECURSOR (EC 3.4.24.-) (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 15) (ADAM-TS 15) (ADAM-TS15).  
[Source:SWISSPROT;Acc:Q8TE58] NM\_139055

let-7e ENSG00000166106 2000 nt UTR 2 hits 206 1185  
-----1-----1-----  
-----

>ENSG00000166106 hs-let-7e 206 213  
UGAGGUAGGAGGUUGUAUAGU&CUGGGCAGAGGGAAGCCCAGGAACUCCCGCACAGUCUACCUCAG  
((((((((((..(..(((.&.....)))))).)..).....)))))). -20.90

>ENSG00000166106 hs-let-7e 1185 1192  
UGAGGUAGGAGGUUGUAUAGU&CGUUGCAUCCUAGGCCUUAGCUUCUCCACUGUUUGCUACCUCAG  
(((((((((((((..(..(((.&.....)))))).)..).....)))))). -21.00  
let-7e ENSMUSG00000033453 5361 nt UTR 2 hits 692 1642

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

>ENSMUSG00000033453 hs-let-7e 692 699  
UGAGGUAGGAGGUUGUAUAGU&UGGACUGGGCAGGGGGAAGUUAACUAAUGCACAGUCUACCUCAU  
((((((((((..(..(((.&.....)))))).)..).....)))))). -24.00

>ENSMUSG00000033453 hs-let-7e 1642 1649  
UGAGGUAGGAGGUUGUAUAGU&CAGUUCUCUGGUAGGUAAACGGGCUUCAUUGUUUGCUACCUCAG  
((((((((((..(..(((.&.....)))))).)..).....)))))). -20.60  
let-7e ENSRNOG00000009892 4706 nt UTR 3 hits 194 1084 3012

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

>ENSRNOG00000009892 hs-let-7e 194 201  
UGAGGUAGGAGGUUGUAUAGU&UGGACUCGGCAGGGGGAAGCUAACUAAUGCACAGUCUACCUCAU  
((((((((((..(..(((.&.....)))))).)..).....)))))). -24.00

>ENSRNOG00000009892 hs-let-7e 1084 1091  
UGAGGUAGGAGGUUGUAUAGU&CAUCUCUCUGGUAGGUAAACGGGGCUUCAUUGUUUGCUACCUCAG  
((((((((((..(..(((.&.....)))))).)..).....)))))). -18.80  
>ENSRNOG00000009892 hs-let-7e 3012 3019

UGAGGUAGGAGGUUGUAUAGU&CAUCUCUCUGGUAGGUAACGGGGCUCAUUGUUUGCUACCUCAG  
 (((((((((.((((..((..(((&.....))))).)).)))))).))). -18.80

miRNA: let-7e

Human predicted target: ENSG00000169635  
 Mouse predicted target: ENSMUSG00000050240  
 Rat predicted target: ENSRNOG00000001863

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

let-7e ENSG00000169635 2050 nt UTR 3 hits 211 543 1158  
 -----1-----1-----1-----1-----  
 -----

>ENSG00000169635 hs-let-7e 211 218  
 UGAGGUAGGAGGUUGUAUAGU&AGCCGAGAGGAGGGAAGCCAGGGGUCCCAGCCCGUCUACCUC  
 .((((((((((.((((..((..(((&.....))))).)).)))))).))). -22.70

>ENSG00000169635 hs-let-7e 543 550  
 UGAGGUAGGAGGUUGUAUAGU&CACUGGCGCUGGGACAGUCAGGGUGACCCCACCGCCUACCUCU  
 .((((((((((.((((..((..(((&.....))))).)).)))))).))). -25.03

>ENSG00000169635 hs-let-7e 1158 1165  
 UGAGGUAGGAGGUUGUAUAGU&CCUCGCUGAACAAAGGUGGAGACUUCUGACCUUUUGCUACCUCU  
 .((((((((((.((((..((..(((&.....))))).)).)))))).))). -22.00

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

>ENSMUSG00000050240 hs-let-7e 307 314  
 UGAGGUAGGAGGUUGUAUAGU&AGUCUAGCCCUAUGCAUGUGGUGCUGGUGACUAUUCUACCUC  
 .((((((((((.((((..((..(((&.....))))).)).)))))).))). -22.60

>ENSMUSG00000050240 hs-let-7e 635 642  
 UGAGGUAGGAGGUUGUAUAGU&UAGCUGGCACUGGAACAGUCAGGGUGACCCAUUGCCUACCUCU  
 .((((((((((.((((..((..(((&.....))))).)).)))))).))). -23.20

>ENSMUSG00000050240 hs-let-7e 1286 1293  
 UGAGGUAGGAGGUUGUAUAGU&CUCACUGAACAUUGGUGGGGAGCCUUCUGACCUUUUGCUACCUCU  
 .((((((((((.((((..((..(((&.....))))).)).)))))).))). -21.42

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

>ENSRNOG00000001863 hs-let-7e 197 204  
 UGAGGUAGGAGGUUGUAUAGU&AGUCUGGCCUCUGCAUGUGGUGCUGGUGACUACUCUACCUC  
 .((((((((((.((((..((..(((&.....))))).)).)))))).))). -20.80

>ENSRNOG00000001863 hs-let-7e 511 518  
 UGAGGUAGGAGGUUGUAUAGU&UAGCUGGCACUGGAACAGUCAGGGUGACCCAUUGCCUACCUCU  
 .((((((((((.((((..((..(((&.....))))).)).)))))).))). -23.20

>ENSRNOG00000001863 hs-let-7e 1139 1146  
 UGAGGUAGGAGGUUGUAUAGU&UUCACUGAACAUUGGAGAGCCUUCUGACCUUUUGCUACCUCU  
 .((((((((((.((((..((..(((&.....))))).)).)))))).))). -21.42



>ENSRNOG00000013322 hs-let-7e 788 795  
UGAGGUAGGAGGUUGUAUAGU&CUCCUUGGCCUCCUCCUCCUGGCCUGGCCUGGCCUACCUCU  
.((((((((((((((..(((&.....)))))))).))))). -24.10

miRNA: let-7e

Human predicted target: ENSG00000182541

Mouse predicted target: ENSMUSG00000020451

Rat predicted target: ENSRNOG00000019000

Hs Gene description: LIM DOMAIN KINASE 2 (EC 2.7.1.-) (LIMK-2).

[Source:SWISSPROT;Acc:P53671] NM\_016733

let-7e ENSG00000182541 3637 nt UTR 2 hits 1098 2572

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

>ENSG00000182541 hs-let-7e 1098 1105  
UGAGGUAGGAGGUUGUAUAGU&AGAGAGAUAGCUCUCCUGAGCUGGGCCAUCUGACUUCUACCUCU  
.((((((((((((((..(((&.....)))))))).))))). -22.10

>ENSG00000182541 hs-let-7e 2572 2579  
UGAGGUAGGAGGUUGUAUAGU&GCCUUUAACAAGGGCUGUCUAGAUUAUUCAUUUUAACUACCUCU  
.((((((((((((((..(((&.....)))))))).))))). -17.51

let-7e ENSMUSG00000020451 3482 nt UTR 2 hits 140 976  
-----1-----1-----

>ENSMUSG00000020451 hs-let-7e 140 147  
UGAGGUAGGAGGUUGUAUAGU&GAAGGCUUGCUCUAGAGGCACAACAAGCCAUCCCUACUACCUCU  
.((((((((((((((.....&.....)))))))).))))). -19.40

>ENSMUSG00000020451 hs-let-7e 976 983  
UGAGGUAGGAGGUUGUAUAGU&AGGAAAAGAACACCCUGAGCUGGGCCUUGUAGAUUCUACCUCU  
.((((((((((((((..(((&.....)))))))).))))). -19.91

let-7e ENSRNOG00000019000 4867 nt UTR 2 hits 958 1727  
-----1-----1-----

>ENSRNOG00000019000 hs-let-7e 958 965  
UGAGGUAGGAGGUUGUAUAGU&AUUGACGGCUUGCUCUAGAAGCAGAACAAGCCAUCCCUACUACCUCU  
.((((((((((((((.....&.....)))))))).))))). -22.20

>ENSRNOG00000019000 hs-let-7e 1727 1734  
UGAGGUAGGAGGUUGUAUAGU&AUGAAGAGAGCUCUCCUGAGCUGGACCUUGUAGAGUCUACCUCU  
.((((((((((((((..(((&.....)))))))).))))). -20.61

miRNA: let-7f

Human predicted target: ENSG00000022567

Mouse predicted target: ENSMUSG00000036649

Rat predicted target: ENSRNOG00000007818

let-7f ENSG00000022567 7016 nt UTR 2 hits 1056 5277

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

-----1-----  
-----  
>ENSG00000022567 hs-let-7f 1056 1063  
UGAGGUAGUAGAUUGUAUAGUU&CCAGCGGGCCCUGCCUCCCAAGUCCCGCCGCAAGGCUACCUCGG  
((((((((...((((.....&.....)))))))).))))). -21.70  
>ENSG00000022567 hs-let-7f 5277 5284  
UGAGGUAGUAGAUUGUAUAGUU&GCCUGUUCUGGUGGAGCCGGGGUGGGGCCCGCGGUCUACCUCU  
((((((((...((((.....&.....)))))))).))))). -17.20  
let-7f ENSMUSG00000036649 2000 nt UTR 2 hits 896 952  
-----1-1-----

-----  
>ENSMUSG00000036649 hs-let-7f 896 903  
UGAGGUAGUAGAUUGUAUAGUU&CAGGUGAGCAUCGGUCUCCGAGUCCUGCUGCACGGCUACCUCGA  
((((((((...((((((..&.....)))))).))))). -21.50  
>ENSMUSG00000036649 hs-let-7f 952 959  
UGAGGUAGUAGAUUGUAUAGUU&GUGGCAUCAGAGCAGGGCGCGGGAAGGGGCCGAGCCUACCUC  
((((((((...((((.....&.....)))))).))))). -15.20  
let-7f ENSRNOG00000007818 2000 nt UTR 2 hits 892 948  
-----1-1-----

-----  
>ENSRNOG00000007818 hs-let-7f 892 899  
UGAGGUAGUAGAUUGUAUAGUU&CCAGGUGAGCAUUGGCUCCCAAUCCUGCUGCAAGGCUACCUCGA  
((((((((...((((((..&.....)))))).))))). -23.80  
>ENSRNOG00000007818 hs-let-7f 948 955  
UGAGGUAGUAGAUUGUAUAGUU&UGGCAUCAGAGCAGGGCACGUGAAGGUGCCGGGGCCUACCUC  
((((((((...((((((..&.....)))))).))))). -16.90

miRNA: let-7f  
Human predicted target: ENSG00000082153  
Mouse predicted target: ENSMUSG00000026033  
Rat predicted target: ENSRNOG00000013977  
Hs Gene description: BASIC LEUCINE ZIPPER AND W2 DOMAINS 1; BASIC LEUCINE-  
ZIPPER PROTEIN BZAP45. [Source:RefSeq;Acc:NM\_014670]  
let-7f ENSG00000082153 2000 nt UTR 2 hits 84 251  
---1-----1-----

-----  
>ENSG00000082153 hs-let-7f 84 91  
UGAGGUAGUAGAUUGUAUAGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUUAUCAUCUCCUACCUC  
((((((((...((((.....&.....)))))))).))))). -19.40  
>ENSG00000082153 hs-let-7f 251 258  
UGAGGUAGUAGAUUGUAUAGUU&GAAUCUAAUGUUGCAUUAUCUUUCAGUUAUCUUCUACCUC  
((((((((...((((.....&.....)))))))).))))). -18.50  
let-7f ENSMUSG00000026033 2413 nt UTR 2 hits 84 252  
---1-----1-----

-----  
>ENSMUSG00000026033 hs-let-7f 84 91  
UGAGGUAGUAGAUUGUAUAGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUUAUCAUCUCCUACCUC



.(((((((.((((.((((.....&.....)))))))).))))). -19.40  
>ENSMUSG00000026033 hs-let-7f 252 259  
UGAGGUAGUAGAUUGUAUAGUU&UUGAAUCUGAUGUUGCAUUGGUUUUCAGUUACCUUCUACCUCC  
.(((((((.((((.((((.....&.....)))))))).))))). -16.60  
let-7f ENSRNOG00000013977 2000 nt UTR 2 hits 760 920  
-----1-----1-----  
-----  
>ENSRNOG00000013977 hs-let-7f 760 767  
UGAGGUAGUAGAUUGUAUAGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUACAUCUCCUACCUCC  
.(((((((.((((.((((.....&.....)))))))).))))). -19.40  
>ENSRNOG00000013977 hs-let-7f 920 927  
UGAGGUAGUAGAUUGUAUAGUU&ACGGAAGCUGGCGCUGCACUGGUCUUCAGUUCCCUCUACCUCC  
.(((((((.((((.((((.....&.....)))))))).))))). -19.30

miRNA: let-7f

Human predicted target: ENSG00000100823

Mouse predicted target: ENSMUSG00000035960

Rat predicted target: ENSRNOG00000009663

Hs Gene description: DNA-(APURINIC OR APYRIMIDINIC SITE) LYASE (EC 4.2.99.18) (AP ENDONUCLEASE 1) (APEX NUCLEASE) (APEN) (REF-1 PROTEIN).

[Source:SWISSPROT;Acc:P27695] NM\_080649

let-7f ENSG00000100823 2259 nt UTR 2 hits 911 1250  
-----1-----1-----

-----  
>ENSG00000100823 hs-let-7f 911 918  
UGAGGUAGUAGAUUGUAUAGUU&GCCCCUCCAAACCUAAGUGAGGGCCUGGUUCCUCCUACCUCU  
.(((((((.((((.((((.....&.....)))))))).))))). -16.00  
>ENSG00000100823 hs-let-7f 1250 1257  
UGAGGUAGUAGAUUGUAUAGUU&GAAGAAAAGAAAGAUGGGGUUAAUGUUGGUCUCCACUACCUCC  
.(((((((.((((.((((.....&.....)))))))).))))). -19.40  
let-7f ENSMUSG00000035960 2165 nt UTR 2 hits 308 884  
-----1-----1-----

-----  
>ENSMUSG00000035960 hs-let-7f 308 315  
UGAGGUAGUAGAUUGUAUAGUU&CAGAUGAGUCCCUAACCUCCUCCCAAGACAGUGACCCUACCUCAG  
(((((((.((((.((((.....&.....)))))))).))))). -19.30  
>ENSMUSG00000035960 hs-let-7f 884 891  
UGAGGUAGUAGAUUGUAUAGUU&UCCCAAACAUAAGGAAGGAAGGGACUGCUUCCUCCUACCUCU  
.(((((((.((((.((((.....&.....)))))))).))))). -17.40  
let-7f ENSRNOG00000009663 2102 nt UTR 2 hits 246 734  
-----1-----1-----

-----  
>ENSRNOG00000009663 hs-let-7f 246 253  
UGAGGUAGUAGAUUGUAUAGUU&CAGAUGAAUCCUGACCUCUCCCAAGACAGUGACCCUACCUCAG  
(((((((.((((.((((.....&.....)))))))).))))). -19.30  
>ENSRNOG00000009663 hs-let-7f 734 741  
UGAGGUAGUAGAUUGUAUAGUU&ACCCUCCAAACCUAAGUCAGGGGCUGGUUCCUCCUACCUCU

.((((((((((..((..((..(((((&.....))))))..)))). -18.00

miRNA: let-7f

Human predicted target: ENSG00000119906

Mouse predicted target: ENSMUSG00000036097

Rat predicted target: ENSRNOG00000014489

Hs Gene description: C10ORF6. [Source:RefSeq;Acc:NM\_018121] NM\_144592

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

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

>ENSG00000119906 hs-let-7f 1326 1333  
UGAGGUAGUAGAUUGUAUAGUU&UUGCGGUUUGAGAGGCAAGAAAUAACUUUCUACCUCU  
.((((((((((((((((.....&)))))))). -18.21

>ENSMUSG00000036097 hs-let-7f 1560 1567  
UGAGGUAGUAGAUUGUAUAGUU&UGUUGUUUACUGGUAAGAAUAUUAUUAUCUUGAUACUACCUCU  
.((((((((((((.....(((((.&.....)))))))). -19.70

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

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

>ENSMUSG00000036097 hs-let-7f 1314 1321  
UGAGGUAGUAGAUUGUAUAGUU&GAGAGGAGAAAUAAGUUCUGAGAGCUAACUCUUCUACCUCU  
.((((((((((..((..((..(((((&.....))))))..)))). -19.90

>ENSMUSG00000036097 hs-let-7f 1542 1549  
UGAGGUAGUAGAUUGUAUAGUU&GUGUUGAGUUUACUGGUAAGAAUAUUGUCUUGAUGCUACCUCU  
.((((((((((((.....(((((.&.....))))).)))). -20.40

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

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

>ENSRNOG00000014489 hs-let-7f 1194 1201  
UGAGGUAGUAGAUUGUAUAGUU&UUGAGAGGAGAAAUAAGUUCUGAGAGCUAACUUUCUACCUCU  
.((((((((.....(((((.&.....))))))..)))). -17.80

>ENSRNOG00000014489 hs-let-7f 1424 1431  
UGAGGUAGUAGAUUGUAUAGUU&GUGUUGAGUUUACUGGUAAGAAUAUUGUCUUGAUGCUACCUCU  
.((((((((((((.....(((((.&.....))))).)))). -20.40

miRNA: let-7f

Human predicted target: ENSG00000131242

Mouse predicted target: ENSMUSG00000017639

Rat predicted target: ENSRNOG00000014135

Hs Gene description: RAB11-FAMILY INTERACTING PROTEIN 4.

[Source:RefSeq;Acc:NM\_032932]

let-7f ENSG00000131242 8479 nt UTR 2 hits 344 704

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

-----  
-----  
-----  
>ENSG00000131242 hs-let-7f 344 351  
UGAGGUAGUAGAUUGUAUAGUU&GGAAGCUCGUGUUUCCGGUACUGGGUAAAAUGAUUCUACCUCU  
.((((((((.....(((..(((.&.....))))))..))).....))))). -16.60  
>ENSG00000131242 hs-let-7f 704 711  
UGAGGUAGUAGAUUGUAUAGUU&CCUAUAGAGUUCGUGCACUCCCCCAUCCAUGCUACCUACCUCC  
.(((((((((((((((..(((.&..))))))..))).....))))..))))). -18.89  
let-7f ENSMUSG00000017639 2000 nt UTR 2 hits 311 636  
-----1-----1-----

-----  
>ENSMUSG00000017639 hs-let-7f 311 318  
UGAGGUAGUAGAUUGUAUAGUU&UGGAAGCUUGCAUUUAGGAUACUGAUGAAAUGAUUCUACCUCU  
.(((((((((((((((..(((.&.....))))))..))).....))))..))))). -16.70  
>ENSMUSG00000017639 hs-let-7f 636 643  
UGAGGUAGUAGAUUGUAUAGUU&UCGUAGUUUUCUGAGCCCCUCCAGUCUUGCCUUGCCUACCUCC  
.(((((((((((..(((.&.....))))))..))).....))))..))))). -18.40  
let-7f ENSRNOG00000014135 2000 nt UTR 2 hits 311 660  
-----1-----1-----

-----  
>ENSRNOG00000014135 hs-let-7f 331 338  
UGAGGUAGUAGAUUGUAUAGUU&UGGAAGCUUGCAUUUCAGAUACUGAUGACAUGAUUCUACCUCU  
.((((((((.....(((..(((.&.....))))))..))).....))))). -19.20  
>ENSRNOG00000014135 hs-let-7f 660 667  
UGAGGUAGUAGAUUGUAUAGUU&AGUUUUCUGUGCCCUUCCCAGCCAGUCUUGCCUUGCCUACCUCC  
.(((((((((((..(((.&.....))))))..))).....))))..))))). -18.60

miRNA: let-7f

Human predicted target: ENSG00000135912  
Mouse predicted target: ENSMUSG00000033257  
Rat predicted target: ENSRNOG00000017129  
Hs Gene description: NM\_014640

let-7f ENSG00000135912 2000 nt UTR 2 hits 45 983  
-1-----1-----  
-----  
>ENSG00000135912 hs-let-7f 45 52  
UGAGGUAGUAGAUUGUAUAGUU&CUCCAAAAGCCUCUGCCCAGGAGCAUGGGCAUCAGCUACCUCAC  
(((((((((((..(((.&.....))))))..))).....))))..))))). -21.90  
>ENSG00000135912 hs-let-7f 983 990  
UGAGGUAGUAGAUUGUAUAGUU&CAAACCUCAGACUAAACUCUUGUACUGAACUGAUUCUACCUCC  
.((((((((.....(((..(((.&.....))))))..))).....))))..))))). -18.10  
let-7f ENSMUSG00000033257 2000 nt UTR 3 hits 617 1137 1899  
-----1-----1-----

-1----  
>ENSMUSG00000033257 hs-let-7f 617 624  
UGAGGUAGUAGAUUGUAUAGUU&UUUGUUUAGUGGUCUCUGCCAACAUCGCUCAUGACUACCUCAA

((((((((((((((((..(((..&....))))).))))).....)))))))). -20.36  
>ENSMUSG00000033257 hs-let-7f 1137 1144  
UGAGGUAGUAGAUUGUAUAGUU&UGAGCUCGUGACUGGUCCUGCACAGGAGCACUCAGCUACCUCAA  
((((((((((..(((..&....))))).))))).....)))))))). -22.64  
>ENSMUSG00000033257 hs-let-7f 1899 1906  
UGAGGUAGUAGAUUGUAUAGUU&GCUUCUCAUCUCUGACAGCUAAUACUCAGUGGCAUCUACCUCC  
((((((((((..(((..&....))))).))))).....)))))))). -17.69  
let-7f ENSRNOG00000017129 2000 nt UTR 2 hits 883 1581

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

>ENSRNOG00000017129 hs-let-7f 883 890  
UGAGGUAGUAGAUUGUAUAGUU&UGAGCCCAUGACUGGUCCUACACAGGAGCACUCAGCUACCUCAA  
((((((((((..(((..&....))))).))))).....)))))))). -22.64  
>ENSRNOG00000017129 hs-let-7f 1581 1588  
UGAGGUAGUAGAUUGUAUAGUU&GCUUCUCAUCUCUGACAGUAAUACUCAACUGCAUCUACCUCC  
((((((((((..(((..&....))))).))))).....)))))))). -16.70

miRNA: let-7f

Human predicted target: ENSG00000140548

Mouse predicted target: ENSMUSG00000048897

Rat predicted target: ENSRNOG00000014278

let-7f ENSG00000140548 2964 nt UTR 2 hits 528 1859

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

>ENSG00000140548 hs-let-7f 528 535  
UGAGGUAGUAGAUUGUAUAGUU&CUGUCGACGGACCGCCAGGCAGGGCACUCUGCCUUCUACCUCC  
((((((((((..(((..&....))))).))))).....)))))))). -19.70  
>ENSG00000140548 hs-let-7f 1859 1866  
UGAGGUAGUAGAUUGUAUAGUU&UUCUCCUGCUGAGCAGAAGGCAUCAUCCCUUGCAACUACCUCU  
((((((((((..(((..&....))))).))))).....)))))))). -18.93  
let-7f ENSMUSG00000048897 2000 nt UTR 2 hits 519 1756

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

>ENSMUSG00000048897 hs-let-7f 519 526  
UGAGGUAGUAGAUUGUAUAGUU&CUAUCACUCAAGAGCCAGGCAGGGCACUCUGCCUUCUACCUCC  
((((((((((..(((..&....))))).))))).....)))))))). -19.70  
>ENSMUSG00000048897 hs-let-7f 1756 1763  
UGAGGUAGUAGAUUGUAUAGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCUUGCAAACUACCUCU  
((((((((((..(((..&....))))).))))).....)))))))). -19.30  
let-7f ENSRNOG00000014278 4055 nt UTR 3 hits 550 1647 2696

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

>ENSRNOG00000014278 hs-let-7f 550 557  
UGAGGUAGUAGAUUGUAUAGUU&CUGUCACUCAAGAGCCAGGCAGGGCACUCUGCCUUCUACCUCC  
((((((((((..(((..&....))))).))))).....)))))))). -19.70  
>ENSRNOG00000014278 hs-let-7f 1647 1654

UGAGGUAGUAGAUUGUAUAGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUGCAAACUACCUCU  
.((((((((...((((.....&.....)))))))))))). -19.30  
>ENSRNOG00000014278 hs-let-7f 2696 2703  
UGAGGUAGUAGAUUGUAUAGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUGCAAACUACCUCU  
.((((((((...((((.....&.....)))))))))))). -19.30

miRNA: let-7f

Human predicted target: ENSG00000148200

Mouse predicted target: ENSMUSG00000026752

Rat predicted target: ENSRNOG00000013232

Hs Gene description: ORPHAN NUCLEAR RECEPTOR NR6A1 (GERM CELL NUCLEAR FACTOR) (GCNF) (RETINOID RECEPTOR-RELATED TESTIS SPECIFIC RECEPTOR) (RTR).

[Source:SWISSPROT;Acc:Q15406] NM\_033335

let-7f ENSG00000148200 2000 nt UTR 3 hits 388 1359 1387

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

>ENSG00000148200 hs-let-7f 388 395  
UGAGGUAGUAGAUUGUAUAGUU&UAAGAUGACUAUUUCCAUAUUGUUGACAAAGAUGACUACCUCAA  
((((((((...((((((((&.....)))))))))))). -21.11

>ENSG00000148200 hs-let-7f 1359 1366  
UGAGGUAGUAGAUUGUAUAGUU&GCCAGAAGCACCUGGAAGGGAAGGGGGCCUUUAAACUACCUCAG  
((((((((...((...&.....))..)))). -19.30

>ENSG00000148200 hs-let-7f 1387 1394  
UGAGGUAGUAGAUUGUAUAGUU&CUUUAACUACCUCAGGUUCCUAAUGGCCCGGCUGCUACCUCU  
.((((((((...((...&.....)))). -22.33

let-7f ENSMUSG00000026752 6457 nt UTR 8 hits 101 371 794 1228 3827  
4135 4145 4310  
----1-----1-----1-----1-----1-----

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

>ENSMUSG00000026752 hs-let-7f 101 108  
UGAGGUAGUAGAUUGUAUAGUU&AAGAGCCAGAGACCAAGAUGGAGACUGUGGAGCAGCUACCUC  
.((((((((...((...&.....)))))))))))). -24.10

>ENSMUSG00000026752 hs-let-7f 371 378  
UGAGGUAGUAGAUUGUAUAGUU&CUAGAUGAGUAUUUCCAUAUUGUUGACAAAGACAACUACCUCAA  
((((((((...((...&.....)))))))))))). -18.80

>ENSMUSG00000026752 hs-let-7f 794 801  
UGAGGUAGUAGAUUGUAUAGUU&GAUCUACCAAGGCCUACCUUCUUCAGACCCCAUCCCUACCUCU  
.((((((((...((...&.....)))))))))))). -16.45

>ENSMUSG00000026752 hs-let-7f 1228 1235  
UGAGGUAGUAGAUUGUAUAGUU&AGCCAGAAAGACCUAGAAAGGAAAGGGGCAUUAACUACCUCAU  
((((((((...((...&.....)))))))))))). -20.10

>ENSMUSG00000026752 hs-let-7f 3827 3834  
UGAGGUAGUAGAUUGUAUAGUU&UGUUUUUACUCAAAUUUCCAUGGGGGAAAAAAGACUACCUCU  
.((((((((...&.....)))))))))))). -17.40

>ENSMUSG00000026752 hs-let-7f 4135 4142

```

UGAGGUAGUAGAUUGUAUAGUU&AUUUCAGGGACUCUGAUGGCAAGUGCAUCAUGAACCUACCUCAG
((((((((.....((((.....&.....)))))).....)))))))). -19.02
>ENSMUSG00000026752 hs-let-7f 4145 4152
UGAGGUAGUAGAUUGUAUAGUU&CUCUGAUGGCAAGUGCAUCAUGAACCUACCUCAGGCUACCUC
((((((((.....((((.....&.....)))))).....)))))))). -18.30
>ENSMUSG00000026752 hs-let-7f 4310 4317
UGAGGUAGUAGAUUGUAUAGUU&AGUUGGCGGGCUCUGCAGGCUCUCAGGCCUCUGCUACCUC
(((((((((((((((((((((&.....))))).)))))).....)))))))). -25.51
let-7f ENSRNOG00000013232 5506 nt UTR 9 hits 374 774 1223 2875 3184
3194 3359 3736 4193
-----1-----1-----1-----1-----
-----1-----1-----1-----2-----1-----
-1-----1-----1-----1-----1-----
>ENSRNOG00000013232 hs-let-7f 374 381
UGAGGUAGUAGAUUGUAUAGUU&CUAGGUGACUAUUUCCAUAUUGUUGACAAAGACAACUACCUCAG
((((((((((.(.(((((((((((&.....)))))).....))))))..)).)))))))). -20.21
>ENSRNOG00000013232 hs-let-7f 774 781
UGAGGUAGUAGAUUGUAUAGUU&UAGCUGCCUGGUUCCUGACCCAGGUCUACCAGGCCUACCUC
((((((((((((((((.....(((&.....))))))..)))))).....)))))))). -17.30
>ENSRNOG00000013232 hs-let-7f 1223 1230
UGAGGUAGUAGAUUGUAUAGUU&AGCCAGAAGCACCUAGAAGGGAAAGGGCCUUUAAACUACCUCAU
((((((((((.(.((.....&.....))))..)).)))))))). -19.10
>ENSRNOG00000013232 hs-let-7f 2875 2882
UGAGGUAGUAGAUUGUAUAGUU&UGUUUUUUUAUCAAGUUUCCAUGGGGGGAAAAGACUACCUCU
((((((((.....&.....)))))))). -17.40
>ENSRNOG00000013232 hs-let-7f 3184 3191
UGAGGUAGUAGAUUGUAUAGUU&UUGGAUUUCAGGGACUCUGAUGGCAAGUGGUGAACCUACCUCAG
((((((((.....(((((&.....)))))).....)))))))). -17.32
>ENSRNOG00000013232 hs-let-7f 3194 3201
UGAGGUAGUAGAUUGUAUAGUU&GGGACUCUGAUGGCAAGUGGUGAACCUACCUCAGGCUACCUC
((((((((.....((.....&.....)))))).....)))))))). -18.30
>ENSRNOG00000013232 hs-let-7f 3359 3366
UGAGGUAGUAGAUUGUAUAGUU&AGUUGGCGGGCUCUGCAGGCUCUCAGGCCUCUGCUACCUC
(((((((((((((((((((((&.....))))).)))))).....)))))))). -25.51
>ENSRNOG00000013232 hs-let-7f 3736 3743
UGAGGUAGUAGAUUGUAUAGUU&UAGCUGCCUGGUUCCUGACCCAGGUCUACCAGGCCUACCUC
((((((((((((((((.....(((&.....))))))..)))))).....)))))))). -17.30
>ENSRNOG00000013232 hs-let-7f 4193 4200
UGAGGUAGUAGAUUGUAUAGUU&AGCCAGAAGCACCUAGAAGGGAAAGGGCCUUUAAACUACCUCAU
((((((((((.(.((.....&.....))))..)).)))))))). -19.10

```

```

miRNA: let-7f
Human predicted target: ENSG00000163935
Mouse predicted target: ENSMUSG00000006527
Rat predicted target: ENSRNOG00000016645
Hs Gene description: SCM-RELATED GENE CONTAINING FOUR MBT DOMAINS.
[Source:RefSeq;Acc:NM_016329]

```

let-7f ENSG00000163935 2000 nt UTR 2 hits 604 944  
-----1-----1-----  
-----

>ENSG00000163935 hs-let-7f 604 611  
UGAGGUAGUAGAUUGUAUAGUU&AUUUUAAAUCGAUUCUAGGAGUCCUUGUUUACUACCUCU  
.((((((((((((.....&.....)))))))))))). -21.20  
>ENSG00000163935 hs-let-7f 944 951

UGAGGUAGUAGAUUGUAUAGUU&UUAUUUUGUGUUUACUUUCUCUAGAGUUGUUUGUCUACCUCU  
.((((((((((((.....((..&.....))....)))).)))))))). -19.20  
let-7f ENSMUSG00000006527 2000 nt UTR 2 hits 578 904  
-----1-----1-----

-----  
>ENSMUSG00000006527 hs-let-7f 578 585  
UGAGGUAGUAGAUUGUAUAGUU&CAUUUUAAAUCUAUUCUAGGAGUCCUUGGUUUACUACCUCU  
.((((((((((((.....&.....)))))))))))). -22.30  
>ENSMUSG00000006527 hs-let-7f 904 911

UGAGGUAGUAGAUUGUAUAGUU&UUAUUUUAUGUUUAUUCUUCUGUUAGAGUUGUUUAACUACCUCU  
.(((((((((.(((.((((..&.....))))).)))).)))))))). -18.90  
let-7f ENSRNOG00000016645 2099 nt UTR 2 hits 559 888  
-----1-----1-----

-----  
>ENSRNOG00000016645 hs-let-7f 559 566  
UGAGGUAGUAGAUUGUAUAGUU&CAUUUUAAAUCUGUCUAGGAGUCCUUGGUUUACUACCUCU  
.((((((((((((.....&.....)))))))))))). -21.20  
>ENSRNOG00000016645 hs-let-7f 888 895

UGAGGUAGUAGAUUGUAUAGUU&UGGUUUUAUGCUUAGUUUCUGUAGAGUUGUUUAACUACCUCU  
.(((((((((.(((.((((..&.....))))).)))).)))))))). -22.70

miRNA: let-7f

Human predicted target: ENSG00000166106  
Mouse predicted target: ENSMUSG00000033453  
Rat predicted target: ENSRNOG00000009892

Hs Gene description: ADAMTS-15 PRECURSOR (EC 3.4.24.-) (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 15) (ADAM-TS 15) (ADAM-TS15).  
[Source:SWISSPROT;Acc:Q8TE58] NM\_139055

let-7f ENSG00000166106 2000 nt UTR 2 hits 206 1185  
-----1-----1-----  
-----

>ENSG00000166106 hs-let-7f 206 213  
UGAGGUAGUAGAUUGUAUAGUU&CUGGGCAGAGGGAAGCCAGGAACUCCCGCACAGUCUACCUCAG  
((((((((((((.....((..(((&.....))))....)))).)))))))). -18.90  
>ENSG00000166106 hs-let-7f 1185 1192

UGAGGUAGUAGAUUGUAUAGUU&CGUUGCAUCCUAGGCCUAGCUUCUCCACUGUUUGCUACCUCAG  
(((((((((((((.(((.((((&.....))))....)))).)))))))). -24.20  
let-7f ENSMUSG00000033453 5361 nt UTR 2 hits 692 1642

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

>ENSMUSG00000033453 hs-let-7f 692 699  
UGAGGUAGUAGAUUGUAUAGUU&UGGACUGGGCAGGGGAAGUUAACUAAUGCACAGUCUACCUCAU  
((((((((.....((((((((&.....)))))).)))).....))))). -21.80  
>ENSMUSG00000033453 hs-let-7f 1642 1649  
UGAGGUAGUAGAUUGUAUAGUU&CAGUUCUCUGGUAGGUAACGGGCUUCAUUGUUUGCUACCUCAG  
((((((((((((((..(((&.....))))).)).))))))))). -25.40  
let-7f ENSRNOG00000009892 4706 nt UTR 3 hits 194 1084 3012  
-----1-----1-----  
-----1-----

>ENSRNOG00000009892 hs-let-7f 194 201  
UGAGGUAGUAGAUUGUAUAGUU&UGGACUCGGCAGGGGAAGCUAACUAAUGCACAGUCUACCUCAU  
((((((((.....((((((((&.....)))))).)))).....))))). -21.80  
>ENSRNOG00000009892 hs-let-7f 1084 1091  
UGAGGUAGUAGAUUGUAUAGUU&CAUCUCUCUGGUAGGUAACGGGGCUUCAUUGUUUGCUACCUCAG  
((((((((((((((..(((&.....))))).)).))))))))). -24.20  
>ENSRNOG00000009892 hs-let-7f 3012 3019  
UGAGGUAGUAGAUUGUAUAGUU&CAUCUCUCUGGUAGGUAACGGGGCUUCAUUGUUUGCUACCUCAG  
((((((((((((((..(((&.....))))).)).))))))))). -24.20

miRNA: let-7f  
Human predicted target: ENSG00000169635  
Mouse predicted target: ENSMUSG00000050240  
Rat predicted target: ENSRNOG00000001863  
Hs Gene description: HYPERMETHYLATED IN CANCER 2 PROTEIN (HIC-2) (HIC-3)  
(HIC1-RELATED GENE ON CHROMOSOME 22). [Source:SWISSPROT;Acc:Q96JB3]  
let-7f ENSG00000169635 2050 nt UTR 3 hits 211 543 1158  
-----1-----1-----1-----  
-----

>ENSG00000169635 hs-let-7f 211 218  
UGAGGUAGUAGAUUGUAUAGUU&AGCCGAGAGGAGGAAGCCAGGGGUCCCAGCCGUCUACCUCC  
((((((((((..((.....&.....)))))).))))). -15.20  
>ENSG00000169635 hs-let-7f 543 550  
UGAGGUAGUAGAUUGUAUAGUU&CACUGGCGCUGGGACAGUCAGGGUGACCCACCGCCUACCUCU  
((((((((((((((..(((&.....))))).))))))))). -20.77  
>ENSG00000169635 hs-let-7f 1158 1165  
UGAGGUAGUAGAUUGUAUAGUU&CCUCGCUGAACAAGGUGGAGACUUCUGACCUUUUGCUACCUCU  
((((((((((((((..(((&.....))))).))))))))). -24.00  
let-7f ENSMUSG00000050240 2000 nt UTR 3 hits 307 635 1286  
-----1-----1-----1-----  
-----

>ENSMUSG00000050240 hs-let-7f 307 314  
UGAGGUAGUAGAUUGUAUAGUU&AGUCUAGCCCUAUGCAUGUGGUGCUGGUGACUAUUCUACCUCC  
((((((((.....((((((((&.....))))))))).))))). -19.45



>ENSMUSG00000050240 hs-let-7f 635 642  
UGAGGUAGUAGAUUGUAUAGUU&UAGCUGGCACUGGAACAGUCAGGGUGACCCAUUGCCUACCUCU  
.(((((((((((((((((..&.....)))))).)))))).)).)))). -20.10  
>ENSMUSG00000050240 hs-let-7f 1286 1293  
UGAGGUAGUAGAUUGUAUAGUU&CUCACUGAACAUUGGGAGCCUUCUGACCUUUGCUACCUCU  
.(((((((((((((((((..&.....)))))).)))))).)).)))). -20.80  
let-7f ENSRNOG00000001863 2000 nt UTR 3 hits 197 511 1139

-----1-----1-----1-----1-----1-----1-----  
-----  
>ENSRNOG00000001863 hs-let-7f 197 204  
UGAGGUAGUAGAUUGUAUAGUU&AGUCUGGCCUCUGCAUGUGGUGCUGGUGACUACUCUACCUC  
.(((((((((((((((((..&.....)))))).)))))).)).)))). -19.00  
>ENSRNOG00000001863 hs-let-7f 511 518  
UGAGGUAGUAGAUUGUAUAGUU&UAGCUGGCACUGGAACAGUCAGGGUGACCCAUUGCCUACCUCU  
.(((((((((((((((((..&.....)))))).)))))).)).)))). -20.10  
>ENSRNOG00000001863 hs-let-7f 1139 1146  
UGAGGUAGUAGAUUGUAUAGUU&UUCACUGAACAUUGAGGAGGCCUUCUGACCUUUGCUACCUCU  
.(((((((((((((((((..&.....)))))).)))))).)).)))). -20.80

miRNA: let-7f

Human predicted target: ENSG00000174498  
Mouse predicted target: ENSMUSG00000032394  
Rat predicted target: ENSRNOG00000013322  
Hs Gene description: SIMILAR TO PUTATIVE NEURONAL CELL ADHESION MOLECULE.  
[Source:SPTREMBL;Acc:Q8IVU1]  
let-7f ENSG00000174498 2458 nt UTR 4 hits 452 534 685 762

-----1--1-----1--1-----1--1-----1--1-----1--1-----1--1-----1--1-----1--1-----  
-----  
>ENSG00000174498 hs-let-7f 452 459  
UGAGGUAGUAGAUUGUAUAGUU&UCAGGAUGGAUUUUUGCUGUUUUGGCUCUCAGCACCUACCUCAG  
((((((((((((((((((((..&.....)))))))))))))))))))). -19.00  
>ENSG00000174498 hs-let-7f 534 541  
UGAGGUAGUAGAUUGUAUAGUU&UCAGCCCCUACCCCACAGAGCCCGAAUGCACUCCUACCUCAA  
((((((((((((((((((((..&.....)))))))))))))))))))). -20.90  
>ENSG00000174498 hs-let-7f 685 692  
UGAGGUAGUAGAUUGUAUAGUU&AGCACUUCCCAUUUCAGAUUGUGAAAGAAAUGUCUACCUCAA  
((((((((((((((((((((..&.....)))))))))))))))))))). -17.30  
>ENSG00000174498 hs-let-7f 762 769  
UGAGGUAGUAGAUUGUAUAGUU&GACCUGCCUCCCCGCCCCUCCUGCCCACAGCCCACCUACCUCU  
.((((((((((((((((((((..&.....)))))))))))))))))))). -16.80  
let-7f ENSMUSG00000032394 2523 nt UTR 4 hits 388 468 633 714

-----1--1-----1--1-----1--1-----1--1-----1--1-----1--1-----1--1-----1--1-----  
-----  
>ENSMUSG00000032394 hs-let-7f 388 395  
UGAGGUAGUAGAUUGUAUAGUU&CAGGAUGGAUUUUUGAGCUGUUGUGACUCUCAGCACCUACCUCAG  
((((((((((((((((((((..&.....)))))))))))))))))))). -19.50  
>ENSMUSG00000032394 hs-let-7f 468 475

UGAGGUAGUAGAUUGUAUAGUU&CCUCCGCCUCUACCCACAGAGCCCGAAAGCACUCCUACCUCAA  
((((((((((..((..((.....&.....)))))))))))). -18.80  
>ENSMUSG00000032394 hs-let-7f 633 640  
UGAGGUAGUAGAUUGUAUAGUU&ACCACUGUCCCAACUCCAAGUGUGAAAGAAACUGUCUACCUCAG  
((((((((((..((..(((((.&.....)))))))))))). -18.40  
>ENSMUSG00000032394 hs-let-7f 714 721  
UGAGGUAGUAGAUUGUAUAGUU&GACCCUCCCCCAGCCUCCUUCAUCCUGGCCUAGCCUACCUCU  
..((((((((((.....&.....))))))))). -16.10  
let-7f ENSRNOG00000013322 2000 nt UTR 4 hits 470 550 703 788  
-----1--1-----1--1-----

>ENSRNOG00000013322 hs-let-7f 470 477  
UGAGGUAGUAGAUUGUAUAGUU&CUCAGGAUGGAUUUUUAGCUGUUGUGACUCAGCACCUACCUCAG  
((((((((((..((..(((((.&.....)))))))))))). -19.20  
>ENSRNOG00000013322 hs-let-7f 550 557  
UGAGGUAGUAGAUUGUAUAGUU&CCUCAGCCUCUACCCACAGAGCCCGAAAGCACUCCUACCUCAA  
((((((((((..((..((.....&.....)))))))))))). -18.80  
>ENSRNOG00000013322 hs-let-7f 703 710  
UGAGGUAGUAGAUUGUAUAGUU&ACCACUGUCCCAACUCCAAGUGUGAAAGAAACUGUCUACCUCAA  
((((((((((..((..(((((.&.....)))))))))))). -18.40  
>ENSRNOG00000013322 hs-let-7f 788 795  
UGAGGUAGUAGAUUGUAUAGUU&CUCCUUGGCCUCCUCCUUCCUGGCCUGGCCUGGCCUACCUCU  
..((((((((((.....(.....((.&.....)))))))))))). -15.10

miRNA: let-7f

Human predicted target: ENSG00000182541  
Mouse predicted target: ENSMUSG00000020451  
Rat predicted target: ENSRNOG00000019000  
Hs Gene description: LIM DOMAIN KINASE 2 (EC 2.7.1.-) (LIMK-2).  
[Source:SWISSPROT;Acc:P53671] NM\_016733  
let-7f ENSG00000182541 3637 nt UTR 2 hits 1098 2572

-----1-----  
>ENSG00000182541 hs-let-7f 1098 1105  
UGAGGUAGUAGAUUGUAUAGUU&AGAGAGAUAGCUCUCCUGAGCUGGGCCAUCUGACUUCUACCUC  
..((((((((((..((..(((((.&.....)))))))))))). -22.50  
>ENSG00000182541 hs-let-7f 2572 2579  
UGAGGUAGUAGAUUGUAUAGUU&GCCUUUAACAAGGGCUGUCUAGAUUUAUUUAACUACCUC  
..((((((((((..((..(((((.&.....)))))))))))). -18.60  
let-7f ENSMUSG00000020451 3482 nt UTR 2 hits 140 976  
-----1-----1-----

>ENSMUSG00000020451 hs-let-7f 140 147  
UGAGGUAGUAGAUUGUAUAGUU&GAAGGCUUGCUUAGAGGCACAACAAGCCAUCCUACUACCUC  
..((((((((((..((..(((((.&.....)))))))))))). -20.70  
>ENSMUSG00000020451 hs-let-7f 976 983  
UGAGGUAGUAGAUUGUAUAGUU&AGGAAAAGAACACCCUGAGCUGGGCCUUGUAGAUUCUACCUCU

.((((((((((..((..(((((&.....)))))).))..))..)))..)))). -18.10  
let-7f ENSRNOG00000019000 4867 nt UTR 2 hits 958 1727

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

>ENSRNOG00000019000 hs-let-7f 958 965  
UGAGGUAGUAGAUUGUAUAGUU&AUUGACGGCUUGCUUAGAAGCAGAACAAGCCAUCCCUACCUC  
.((((((((((..((..(((((&.....)))))).))..))..)))..)))). -16.60  
>ENSRNOG00000019000 hs-let-7f 1727 1734  
UGAGGUAGUAGAUUGUAUAGUU&AUGAAGAGAGCUCCUGAGCUGGACCUUGUAGAGUCUACCUCU  
.((((((((((..((..(((((&.....)))))).))..))..)))..)))). -17.80

miRNA: let-7g

Human predicted target: ENSG00000022567  
Mouse predicted target: ENSMUSG00000036649  
Rat predicted target: ENSRNOG00000007818

let-7g ENSG00000022567 7016 nt UTR 2 hits 1056 5277

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

>ENSG00000022567 hs-let-7g 1056 1063  
UGAGGUAGUAGUUUGUACAGUU&CCAGCGGGCCUGCCUCCCAAGUCCCGCCGCAAGGCUACCUCGG  
((((((((((..((..(((((&.....)))))).))..))..)))..)))). -20.60  
>ENSG00000022567 hs-let-7g 5277 5284  
UGAGGUAGUAGUUUGUACAGUU&GCCUGUUCUGGUGGAGCCGGGGUGGGGCCCGCGGUCUACCUCU  
.((((((((((..((..(((((&.....)))))).))..))..)))..)))). -18.70  
let-7g ENSMUSG00000036649 2000 nt UTR 2 hits 896 952

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

>ENSMUSG00000036649 hs-let-7g 896 903  
UGAGGUAGUAGUUUGUACAGUU&CAGGUGAGCAUCGGCUCCCGAGUCCUGCUGCAGGCUACCUCGA  
((((((((((..((..(((((&.....)))))).))..))..)))..)))). -23.40  
>ENSMUSG00000036649 hs-let-7g 952 959  
UGAGGUAGUAGUUUGUACAGUU&GUGGCAUCAGAGCAGGGCGCGGGAAGGGGCCGAGCCUACCUC  
.((((((((((..((..(((((&.....)))))).))..))..)))..)))). -18.50  
let-7g ENSRNOG00000007818 2000 nt UTR 2 hits 892 948

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

>ENSRNOG00000007818 hs-let-7g 892 899  
UGAGGUAGUAGUUUGUACAGUU&CCAGGUGAGCAUUGGCUCCCAAUCCUGCUGCAAGGCUACCUCGA  
((((((((((..((..(((((&.....)))))).))..))..)))..)))). -24.60  
>ENSRNOG00000007818 hs-let-7g 948 955  
UGAGGUAGUAGUUUGUACAGUU&UGGCAUCAGAGCAGGGCACGUGAAGGUGCCGGGGCCUACCUC  
.((((((((((..((..(((((&.....)))))).))..))..)))..)))). -18.50

miRNA: let-7g

Human predicted target: ENSG00000082153

Mouse predicted target: ENSMUSG00000026033

Rat predicted target: ENSRNOG00000013977

Hs Gene description: BASIC LEUCINE ZIPPER AND W2 DOMAINS 1; BASIC LEUCINE-ZIPPER PROTEIN BZAP45. [Source:RefSeq;Acc:NM\_014670]

let-7g ENSG00000082153 2000 nt UTR 2 hits 84 251

-----  
-----

>ENSG00000082153 hs-let-7g 84 91  
UGAGGUAGUAGUUUGUACAGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUUAUCAUCUCCUACCUC  
.(((((((((.(((((.....)).....))).....)).....)).....)).....))..... -18.50

>ENSMUSG00000082153 hs-let-7g 251 258  
UGAGGUAGUAGUUUGUACAGUU&GAAUCUAAUGUUGCAUUGUCUUUUCAGUUAUCUUCUACCUC  
.(((((((((.(((((.....)).....))).....)).....)).....)).....))..... -16.10

let-7g ENSMUSG00000026033 2413 nt UTR 2 hits 84 252

-----  
-----

>ENSMUSG00000026033 hs-let-7g 84 91  
UGAGGUAGUAGUUUGUACAGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUUAUCAUCUCCUACCUC  
.(((((((((.(((((.....)).....))).....)).....)).....)).....))..... -18.50

>ENSMUSG00000026033 hs-let-7g 252 259  
UGAGGUAGUAGUUUGUACAGUU&UUGAAUCUGAUGUUGCAUUGGUUUUCAGUUAACUUCUACCUC  
.(((((((((.(((((.....)).....))).....)).....)).....)).....))..... -16.70

let-7g ENSRNOG00000013977 2000 nt UTR 2 hits 760 920

-----  
-----

>ENSRNOG00000013977 hs-let-7g 760 767  
UGAGGUAGUAGUUUGUACAGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUUAUCAUCUCCUACCUC  
.(((((((((.(((((.....)).....))).....)).....)).....)).....))..... -18.50

>ENSRNOG00000013977 hs-let-7g 920 927  
UGAGGUAGUAGUUUGUACAGUU&ACGGAAGCUGGCGCUGCACUGGUCUUCAGUUCCCUCUACCUC  
.(((((((((.(((((.....)).....))).....)).....)).....)).....))..... -19.63

miRNA: let-7g

Human predicted target: ENSG00000100823

Mouse predicted target: ENSMUSG00000035960

Rat predicted target: ENSRNOG00000009663

Hs Gene description: DNA-(APURINIC OR APYRIMIDINIC SITE) LYASE (EC 4.2.99.18) (AP ENDONUCLEASE 1) (APEX NUCLEASE) (APEN) (REF-1 PROTEIN).

[Source:SWISSPROT;Acc:P27695] NM\_080649

let-7g ENSG00000100823 2259 nt UTR 2 hits 911 1250

-----  
-----

>ENSG00000100823 hs-let-7g 911 918  
UGAGGUAGUAGUUUGUACAGUU&GCCCCUCAAACCUAAGUGAGGGCCUGGUUCCUCCUACCUCU  
.((((((((.....((.....)).....)).....)).....)).....))..... -17.23

>ENSG00000100823 hs-let-7g 1250 1257  
UGAGGUAGUAGUUUGUACAGUU&GAAGAAAAGAAAGAUGGGGUUAAUGUUGGUCUCCACUACCUC  
((((((((((.....((.....&.....)))))).....))))). -17.80  
let-7g ENSMUSG00000035960 2165 nt UTR 2 hits 308 884

-----1-----1-----  
>ENSMUSG00000035960 hs-let-7g 308 315  
UGAGGUAGUAGUUUGUACAGUU&CAGAUGAGUCCCUAACCCUCUCCCAAGACAGUGACCCUACCUCAG  
((((((((((.....((.....&.....)))))).....))))). -18.40

>ENSMUSG00000035960 hs-let-7g 884 891  
UGAGGUAGUAGUUUGUACAGUU&UCCCAAACAUAAGGAAGGAAGGGACUGCUUCCUCCUACCUCU  
((((((((((.....((.....&.....)))))).....))))). -18.63  
let-7g ENSRNOG00000009663 2102 nt UTR 2 hits 246 734

-----1-----1-----  
>ENSRNOG00000009663 hs-let-7g 246 253  
UGAGGUAGUAGUUUGUACAGUU&CAGAUGAAUCCUGACCUCUCCCAAGACAGUGACCCUACCUCAG  
((((((((((.....((.....&.....)))))).....))))). -18.40

>ENSRNOG00000009663 hs-let-7g 734 741  
UGAGGUAGUAGUUUGUACAGUU&ACCCCUCCAAACCUAAGUCAGGGGCUGGUUCCUCCUACCUCU  
((((((((((.....((.....&.....)))))).....))))). -19.23

miRNA: let-7g

Human predicted target: ENSG00000119906

Mouse predicted target: ENSMUSG00000036097

Rat predicted target: ENSRNOG00000014489

Hs Gene description: C10ORF6. [Source:RefSeq;Acc:NM\_018121] NM\_144592

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

-----1-----1-----  
>ENSG00000119906 hs-let-7g 1326 1333  
UGAGGUAGUAGUUUGUACAGUU&UUGCGGUUUGAGAGGCAAGAAAUAUUUAUACUUCUACCUCU  
((((((((((.....((.....&.....)))))).....))))). -17.60

>ENSG00000119906 hs-let-7g 1560 1567  
UGAGGUAGUAGUUUGUACAGUU&UGUUGUUUACUGGUAAGAAUAUUUAUUCUUGAUACUACCUCU  
((((((((((.....((.....&.....)))))).....))))). -20.51  
let-7g ENSMUSG00000036097 4668 nt UTR 2 hits 1314 1542

-----1-----1-----  
>ENSMUSG00000036097 hs-let-7g 1314 1321  
UGAGGUAGUAGUUUGUACAGUU&GAGAGGAGAAAUAAGUUCUGAGAGCUAACUCUUCUACCUCU  
((((((((((.....((.....&.....)))))).....))))). -19.91

>ENSMUSG00000036097 hs-let-7g 1542 1549  
UGAGGUAGUAGUUUGUACAGUU&GUGUUGAGUUUACUGGUAAGAAUAUUGUCUUGAUGCUACCUCU  
((((((((((.....((.....&.....)))))).....))))). -21.60  
let-7g ENSRNOG00000014489 4549 nt UTR 2 hits 1194 1424

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

>ENSRNOG00000014489 hs-let-7g 1194 1201  
UGAGGUAGUAGUUUGUACAGUU&UUGAGAGGAGAAAAUAAGUUCUGAGAGCUAACUUUCUACCUCU  
.(((((((((((((.((((.(.(.((..&.....))))))..)))..)))))))). -20.70  
>ENSRNOG00000014489 hs-let-7g 1424 1431  
UGAGGUAGUAGUUUGUACAGUU&GUGUUGAGUUUACUGGUAAGAAUAUUGUCUUGAUGCUACCUCU  
.(((((((((((((.((((.(.(.((..&.....))))))..)))..)))))))). -21.60

miRNA: let-7g  
Human predicted target: ENSG00000131242  
Mouse predicted target: ENSMUSG00000017639  
Rat predicted target: ENSRNOG00000014135  
Hs Gene description: RAB11-FAMILY INTERACTING PROTEIN 4.  
[Source:RefSeq;Acc:NM\_032932]

let-7g ENSG00000131242 8479 nt UTR 2 hits 344 704  
-----1-----1-----  
-----  
-----  
-----

>ENSG00000131242 hs-let-7g 344 351  
UGAGGUAGUAGUUUGUACAGUU&GGAAGCUCGUGUUUCCGGUACUGGGUAAAAUGAUUCUACCUCU  
.(((((((((((((.((((.(.(.((..&.....))))))..)))..)))))))). -21.30  
>ENSG00000131242 hs-let-7g 704 711  
UGAGGUAGUAGUUUGUACAGUU&CCUAUAGAGUUCGUGCACUCCCCCAUCCAUGCUACCUACCUC  
.(((((((((((((.((((.(.(.((..&.....))))))..)))..)))))))). -21.74  
let-7g ENSMUSG00000017639 2000 nt UTR 2 hits 311 636  
-----1-----1-----  
-----

>ENSMUSG00000017639 hs-let-7g 311 318  
UGAGGUAGUAGUUUGUACAGUU&UGGAAGCUUGCAUUUAGGAUACUGAUGAAAUGAUUCUACCUCU  
.(((((((((((((.((((.(.(.((..&.....))))))..)))..)))))))). -20.00  
>ENSMUSG00000017639 hs-let-7g 636 643  
UGAGGUAGUAGUUUGUACAGUU&UCGUAGUUUUCUGAGCCCCUCCAGUCUUGCUUGCCUACCUC  
.(((((((((((((.((((.(.(.((..&.....))))))..)))..)))))))). -17.30  
let-7g ENSRNOG00000014135 2000 nt UTR 2 hits 331 660  
-----1-----1-----  
-----

>ENSRNOG00000014135 hs-let-7g 331 338  
UGAGGUAGUAGUUUGUACAGUU&UGGAAGCUUGCAUUUCAGAUACUGAUGACAUGAUUCUACCUCU  
.(((((((((((((.((((.(.(.((..&.....))))))..)))..)))))))). -21.50  
>ENSRNOG00000014135 hs-let-7g 660 667  
UGAGGUAGUAGUUUGUACAGUU&AGUUUUCUGUGCCCUUCCCAGCCAGUCUUGCUUGCCUACCUC  
.(((((((((((((.((((.(.(.((..&.....))))))..)))..)))))))). -20.51

miRNA: let-7g

Human predicted target: ENSG00000135912

Mouse predicted target: ENSMUSG00000033257

Rat predicted target: ENSRNOG00000017129

Hs Gene description: NM\_014640

let-7g ENSG00000135912 2000 nt UTR 2 hits 45 983

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

>ENSG00000135912 hs-let-7g 45 52  
UGAGGUAGUAGUUUGUACAGUU&CUCCAAAAGCCUCUGCCCAGGAGCAUGGGCAUCAGCUACCUCAC  
((((((((((..((..(((((&.....)))))).)))).)))). -22.30

>ENSG00000135912 hs-let-7g 983 990  
UGAGGUAGUAGUUUGUACAGUU&CAAACCUCAGACUAAACUCUUGUACUGAACUGAUUCUACCUC  
.(((((((((((((..&.....)))))).)))).).....) -24.20

let-7g ENSMUSG00000033257 2000 nt UTR 3 hits 617 1137 1899  
-----1-----1-----

-1-----

>ENSMUSG00000033257 hs-let-7g 617 624  
UGAGGUAGUAGUUUGUACAGUU&UUUGUUUAGUGGUCUCUGCCAACAUCGCUCAUGACUACCUCAA  
(((((((((((((..((..(((((&.....)))))).)))).).....) -20.60

>ENSMUSG00000033257 hs-let-7g 1137 1144  
UGAGGUAGUAGUUUGUACAGUU&UGAGCUCGUGACUGGUCCUGCACAGGAGCACUCAGCUACCUCAA  
(((((((((((((..((..(((((&.....)))))).).....) -22.94

>ENSMUSG00000033257 hs-let-7g 1899 1906  
UGAGGUAGUAGUUUGUACAGUU&GCUUCUCAUCUCUGACAGCUAAUACUCAGUGGCAUCUACCUC  
.(((((((((((((..((..(((((&.....)))))).).....) -18.93

let-7g ENSRNOG00000017129 2000 nt UTR 2 hits 883 1581  
-----1-----1-----

-----

>ENSRNOG00000017129 hs-let-7g 883 890  
UGAGGUAGUAGUUUGUACAGUU&UGAGCCCAUGACUGGUCCUACACAGGAGCACUCAGCUACCUCAA  
(((((((((((((..((..(((((&.....)))))).).....) -22.94

>ENSRNOG00000017129 hs-let-7g 1581 1588  
UGAGGUAGUAGUUUGUACAGUU&GCUUCUCAUCUCUGACAGUUAAUACUCAACUGCAUCUACCUC  
.(((((((((((((..((..(((((&.....)))))).).....) -18.60

miRNA: let-7g

Human predicted target: ENSG00000140548

Mouse predicted target: ENSMUSG00000048897

Rat predicted target: ENSRNOG00000014278

let-7g ENSG00000140548 2964 nt UTR 2 hits 528 1859

-----1-----

>ENSG00000140548 hs-let-7g 528 535  
UGAGGUAGUAGUUUGUACAGUU&CUGUCGACGGACCGCCAGGCAGGGCACUCUGCCUUCUACCUC  
.(((((((((((((..(((((&)))))).).....) -19.21

>ENSG00000140548 hs-let-7g 1859 1866  
UGAGGUAGUAGUUUGUACAGUU&UUCUCCUGCUGAGCAGAAGGCAUCAUCCCCUGCAACUACCUCU  
.((((((((((..((((((..(((..&.....)))))))).))))).))))). -22.46  
let-7g ENSMUSG00000048897 2000 nt UTR 2 hits 519 1756  
-----1-----1-----

>ENSMUSG00000048897 hs-let-7g 519 526  
UGAGGUAGUAGUUUGUACAGUU&CUAUCACUCAAGAGCCAGGCAGGGCACUCUGCCUUCUACCUC  
.((((((((((..((((((..(((..&.....)))))))).))))).))))). -18.20  
>ENSMUSG00000048897 hs-let-7g 1756 1763  
UGAGGUAGUAGUUUGUACAGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUGCAAACUACCUCU  
.((((((((((..((((((..(((..&.....)))))))).))))).))))). -22.21  
let-7g ENSRNOG00000014278 4055 nt UTR 3 hits 550 1647 2696  
-----1-----1-----

>ENSRNOG00000014278 hs-let-7g 550 557  
UGAGGUAGUAGUUUGUACAGUU&CUGUCACUCAAGAGCCAGGCAGGGCACUCUGCCUUCUACCUC  
.((((((((((..((((((..(((..&.....)))))))).))))).))))). -18.20  
>ENSRNOG00000014278 hs-let-7g 1647 1654  
UGAGGUAGUAGUUUGUACAGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUGCAAACUACCUCU  
.((((((((((..((((((..(((..&.....)))))))).))))).))))). -22.21  
>ENSRNOG00000014278 hs-let-7g 2696 2703  
UGAGGUAGUAGUUUGUACAGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUGCAAACUACCUCU  
.((((((((((..((((((..(((..&.....)))))))).))))).))))). -22.21

miRNA: let-7g

Human predicted target: ENSG00000148200  
Mouse predicted target: ENSMUSG00000026752  
Rat predicted target: ENSRNOG00000013232  
Hs Gene description: ORPHAN NUCLEAR RECEPTOR NR6A1 (GERM CELL NUCLEAR  
FACTOR) (GCNF) (RETINOID RECEPTOR-RELATED TESTIS SPECIFIC RECEPTOR) (RTR).  
[Source:SWISSPROT;Acc:Q15406] NM\_033335  
let-7g ENSG00000148200 2000 nt UTR 3 hits 388 1359 1387  
-----1-----1-----

>ENSG00000148200 hs-let-7g 388 395  
UGAGGUAGUAGUUUGUACAGUU&UAAGAUGACUAUUUCCAUAUGUUGACAAAGAUGACUACCUCAA  
((((((((((..((((((..(((..&.....)))))))).))))).))))). -22.40  
>ENSG00000148200 hs-let-7g 1359 1366  
UGAGGUAGUAGUUUGUACAGUU&GCCAGAAGCACCUGGAAGGGAAGGGGGCUUUAACUACCUCAG  
((((((((((..((((((..(((..&.....)))))))).))))).))))). -20.50  
>ENSG00000148200 hs-let-7g 1387 1394  
UGAGGUAGUAGUUUGUACAGUU&CUUUAACUACCUCAGGUUCCUAAUGGCCCGGCUGCUACCUCU  
.((((((((((..((((((..(((..&.....)))))))).))))).))))). -25.90  
let-7g ENSMUSG00000026752 6457 nt UTR 8 hits 101 371 794 1228 3827  
4135 4145 4310



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

>ENSMUSG00000026752 hs-let-7g 101 108  
UGAGGUAGUAGUUUGUACAGUU&AAGAGCCAGAGACCAAGAUGGAGACUGUGGAGCAGCUACCUC  
.(((((((((.(((((.(((((((&.....)))))))))))).)))))))). -27.40  
>ENSMUSG00000026752 hs-let-7g 371 378  
UGAGGUAGUAGUUUGUACAGUU&CUAGAUGAGUAAUUCUAAUGUUGACAAAGACAACUACCUCAA  
(((((((((.(((((.((((((.&.....)))))))))))).)))))))). -22.50  
>ENSMUSG00000026752 hs-let-7g 794 801  
UGAGGUAGUAGUUUGUACAGUU&GAUCUACCAAGGCCUACCUUCUUCAGACCCCAUCCCUACCUCU  
.(((((((((.(((((.((((((.&.....)))))))))))).)))))))). -16.60  
>ENSMUSG00000026752 hs-let-7g 1228 1235  
UGAGGUAGUAGUUUGUACAGUU&AGCCAGAAAGACCUAGAAAGGAAAGGGCAUUAACUACCUCAU  
(((((((((.(((((.((((((.&.....)))))))))))).)))))))). -19.80  
>ENSMUSG00000026752 hs-let-7g 3827 3834  
UGAGGUAGUAGUUUGUACAGUU&UGUUUUUACUCAAAUUCUCCAUUGGGGAAAAAGACUACCUCU  
.(((((((((.(((((.((((((.&.....)))))))))))).)))))))). -18.60  
>ENSMUSG00000026752 hs-let-7g 4135 4142  
UGAGGUAGUAGUUUGUACAGUU&AUUUCAGGGACUCUGAUGGCAAGUGCAUCAUGAACCUACCUCAG  
(((((((((.(((((.((((((.&.....)))))))))))).)))))))). -19.62  
>ENSMUSG00000026752 hs-let-7g 4145 4152  
UGAGGUAGUAGUUUGUACAGUU&CUCUGAUGGCAAGUGCAUCAUGAACCUACCUCAGGCCUACCUC  
.(((((((((.(((((.((((((.&.....)))))))))))).)))))))). -18.90  
>ENSMUSG00000026752 hs-let-7g 4310 4317  
UGAGGUAGUAGUUUGUACAGUU&AGUUGGCGGGCUCUGCAGGCUCUCAGGCCUCUGCUACCUC  
.(((((((((.(((((.((((((.&.....)))))))))))).)))))))). -25.70  
let-7g ENSRNOG00000013232 5506 nt UTR 9 hits 374 774 1223 2875 3184  
3194 3359 3736 4193

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

>ENSRNOG00000013232 hs-let-7g 374 381  
UGAGGUAGUAGUUUGUACAGUU&CUAGGUGACUAAUUCUAAUGUUGACAAAGACAACUACCUCAG  
(((((((((.(((((.((((((.&.....)))))))))))).)))))))). -22.50  
>ENSRNOG00000013232 hs-let-7g 774 781  
UGAGGUAGUAGUUUGUACAGUU&UAGCUGCCUGGUUUCUGACCCAGGUCUACCAGGCCUACCUC  
.(((((((((.(((((.((((((.&.....)))))))))))).)))))))). -17.59  
>ENSRNOG00000013232 hs-let-7g 1223 1230  
UGAGGUAGUAGUUUGUACAGUU&AGCCAGAAGCACCUAGAAGGGAAAGGGCUUUAACUACCUCAU  
(((((((((.(((((.((((((.&.....)))))))))))).)))))))). -19.70  
>ENSRNOG00000013232 hs-let-7g 2875 2882  
UGAGGUAGUAGUUUGUACAGUU&UGUUUUUAUCAAGUUUCUCCAUUGGGGGGAAAAAGACUACCUCU  
.(((((((((.(((((.((((((.&.....)))))))))))).)))))))). -18.60  
>ENSRNOG00000013232 hs-let-7g 3184 3191  
UGAGGUAGUAGUUUGUACAGUU&UUGGAUUUCAGGGACUCUGAUGGCAAGUGGUGAACCUACCUCAG  
(((((((((.(((((.((((((.&.....)))))))))))).)))))))). -19.50

>ENSRNOG00000013232 hs-let-7g 3194 3201  
UGAGGUAGUAGUUUGUACAGUU&GGGACUCUGAUGGCAAGUGGUGAACCUACCUCAGGCUACCUC  
.((((((((((..((((((..&.....)))))))).))))). -18.91  
>ENSRNOG00000013232 hs-let-7g 3359 3366  
UGAGGUAGUAGUUUGUACAGUU&AGUUGGCGGGCUCUGCAGGCUCUCAGGCCUCUGCUACCUC  
.((((((((((((((((((..((((((&.....)))))))).))))). -25.70  
>ENSRNOG00000013232 hs-let-7g 3736 3743  
UGAGGUAGUAGUUUGUACAGUU&UAGCUGCCUGGUUCCUGACCCAGGUCUACCAGGCCUACCUC  
.((((((((((..((((((((((((((&..)))))))).))))). -17.59  
>ENSRNOG00000013232 hs-let-7g 4193 4200  
UGAGGUAGUAGUUUGUACAGUU&AGCCAGAAGCACCUAGAAGGGAAAGGGCCUUUAAACUACCUCAU  
((((((((((((((((((..(.....&.....)))))))).))))). -19.70

miRNA: let-7g

Human predicted target: ENSG00000163935

Mouse predicted target: ENSMUSG00000006527

Rat predicted target: ENSRNOG00000016645

Hs Gene description: SCM-RELATED GENE CONTAINING FOUR MBT DOMAINS.

[Source:RefSeq;Acc:NM\_016329]

let-7g ENSG00000163935 2000 nt UTR 2 hits 604 944

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

>ENSG00000163935 hs-let-7g 604 611  
UGAGGUAGUAGUUUGUACAGUU&AUUUUAAAUCGAUUCUAGGAGUCCUUGUUUACUACCUCU  
.((((((((((.....&.....)))))))). -19.00

>ENSG00000163935 hs-let-7g 944 951  
UGAGGUAGUAGUUUGUACAGUU&UUAUUUUGUGUUUACUUUCUCUAGAGUUGUUUGUCUACCUCU  
.((((((((((..((((((..&.....)))))))).))))). -17.15

let-7g ENSMUSG00000006527 2000 nt UTR 2 hits 578 904

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

>ENSMUSG00000006527 hs-let-7g 578 585  
UGAGGUAGUAGUUUGUACAGUU&CAUUUUAAAUCUAUUCUAGGAGUCCUUGGUUUACUACCUCU  
.((((((((((.....&.....)))))))). -19.00

>ENSMUSG00000006527 hs-let-7g 904 911  
UGAGGUAGUAGUUUGUACAGUU&UAUUUUUAUGUUUAUUCUUCUGUUAGAGUUGUUUAACUACCUCU  
.((((((((((..((((((..&.....)))))))).))))). -19.30

let-7g ENSRNOG00000016645 2099 nt UTR 2 hits 559 888

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

>ENSRNOG00000016645 hs-let-7g 559 566  
UGAGGUAGUAGUUUGUACAGUU&CAUUUUAAAUCUGUCUAGGAGUCCUUGGUUUACUACCUCU  
.((((((((((((((((((..&.....)))))))).))))). -19.10

>ENSRNOG00000016645 hs-let-7g 888 895  
UGAGGUAGUAGUUUGUACAGUU&UGGUUUUAUGCUUAGUUUCUGUAGAGUUGUUUAACUACCUCU  
.((((((((((..((((((..&.....)))))))).))))). -21.00

miRNA: let-7g

Human predicted target: ENSG00000166106

Mouse predicted target: ENSMUSG00000033453

Rat predicted target: ENSRNOG00000009892

Hs Gene description: ADAMTS-15 PRECURSOR (EC 3.4.24.-) (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 15) (ADAM-TS 15) (ADAM-TS15).

[Source:SWISSPROT;Acc:Q8TE58] NM\_139055

let-7g ENSG00000166106 2000 nt UTR 2 hits 206 1185

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

>ENSG00000166106 hs-let-7g 206 213  
UGAGGUAGUAGUUUGUACAGUU&CUGGGCAGAGGGAAGCCAGGAACUCCCGCACAGUCUACCUCAG  
((((((((((...(((...((...&)))...))))))...)))))) -19.85

>ENSG00000166106 hs-let-7g 1185 1192  
UGAGGUAGUAGUUUGUACAGUU&CGUUGCAUCCUAGGCCUAGCUUCUCCACUGUUUGCUACCUCAG  
(((((((((((...(((...&...))))))...)))))) -23.40

let-7g ENSMUSG00000033453 5361 nt UTR 2 hits 692 1642  
-----1-----1-----  
-----

>ENSMUSG00000033453 hs-let-7g 692 699  
UGAGGUAGUAGUUUGUACAGUU&UGGACUGGGCAGGGGAAGUUAACUAAUGCACAGUCUACCUCAU  
(((((((((((((((...(((...&...))))))...))))))...)))))) -22.50

>ENSMUSG00000033453 hs-let-7g 1642 1649  
UGAGGUAGUAGUUUGUACAGUU&CAGUUCUCUGGUAGGUAAACGGGCUUCAUUGUUUGCUACCUCAG  
(((((((((((...(((...&...))))))...)))))) -21.50

let-7g ENSRNOG00000009892 4706 nt UTR 3 hits 194 1084 3012  
-----1-----1-----  
-----

>ENSRNOG00000009892 hs-let-7g 194 201  
UGAGGUAGUAGUUUGUACAGUU&UGGACUCGGCAGGGGAAGCUAACUAAUGCACAGUCUACCUCAU  
((((((((((...(((...&...))))...)))))) -19.60

>ENSRNOG00000009892 hs-let-7g 1084 1091  
UGAGGUAGUAGUUUGUACAGUU&CAUCUCUCUGGUAGGUAAACGGGGCUCAUUGUUUGCUACCUCAG  
(((((((((((...(((...&...))))...)))))) -21.20

>ENSRNOG00000009892 hs-let-7g 3012 3019  
UGAGGUAGUAGUUUGUACAGUU&CAUCUCUCUGGUAGGUAAACGGGGCUCAUUGUUUGCUACCUCAG  
(((((((((((...(((...&...))))...)))))) -21.20

miRNA: let-7g

Human predicted target: ENSG00000169635

Mouse predicted target: ENSMUSG00000050240

Rat predicted target: ENSRNOG00000001863

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

let-7g ENSG00000169635 2050 nt UTR 3 hits 211 543 1158  
-----1-----1-----1-----1-----  
-----

>ENSG00000169635 hs-let-7g 211 218  
UGAGGUAGUAGUUUGUACAGUU&AGCCGAGAGGAGGGAAGCCAGGGGUCCCAGCCCGUCUACCUCC  
.((((((((((..(((.(.(.....&.....))))).)))).))))). -16.70  
>ENSG00000169635 hs-let-7g 543 550  
UGAGGUAGUAGUUUGUACAGUU&CACUGGCGCUGGGACAGUCAGGGUGACCCACCGCCUACCUCU  
.((((((((((..(.((((.(.(&.....))))).)))).))))). -18.69  
>ENSG00000169635 hs-let-7g 1158 1165  
UGAGGUAGUAGUUUGUACAGUU&CCUCGCUGAACAAGGUGGAGACUUCUGACCUUUUGCUACCUCU  
.(((((((((((((((((((.(.(&.....))))).)))).))))). -23.46

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

>ENSMUSG00000050240 hs-let-7g 307 314  
UGAGGUAGUAGUUUGUACAGUU&AGUCUAGCCCUAUGCAUGUGGUGCUGGGUGACUAUUCUACCUCC  
.(((((((((((((((.....(((.(.(&.....))))).)))).))))). -22.40  
>ENSMUSG00000050240 hs-let-7g 635 642  
UGAGGUAGUAGUUUGUACAGUU&UAGCUGGCACUGGAACAGUCAGGGUGACCCAUUGCCUACCUCU  
.(((((((((((((((((((.(.(&.....))))).)))).))))). -19.60  
>ENSMUSG00000050240 hs-let-7g 1286 1293  
UGAGGUAGUAGUUUGUACAGUU&CUCACUGAACAUGGUGGGGAGCCUUCUGACCUUUUGCUACCUCU  
.(((((((((((((((((((.....(((.(.(&.....))))).)))).))))). -22.10

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

>ENSRNOG00000001863 hs-let-7g 197 204  
UGAGGUAGUAGUUUGUACAGUU&AGUCUGGCCUCUGCAUGUGGUGCUGGGUGACUACUCUACCUCC  
.(((((((((((..(((.(.(&.....))))).)))).))))). -22.60  
>ENSRNOG00000001863 hs-let-7g 511 518  
UGAGGUAGUAGUUUGUACAGUU&UAGCUGGCACUGGAACAGUCAGGGUGACCCAUUGCCUACCUCU  
.(((((((((((((((((((.....(((.(.(&.....))))).)))).))))). -19.60  
>ENSRNOG00000001863 hs-let-7g 1139 1146  
UGAGGUAGUAGUUUGUACAGUU&UUCACUGAACAUGAUGGAGAGCCUUCUGACCUUUUGCUACCUCU  
.(((((((((((((((((((.....(((.(.(&.....))))).)))).))))). -22.10

miRNA: let-7g  
Human predicted target: ENSG00000174498  
Mouse predicted target: ENSMUSG00000032394  
Rat predicted target: ENSRNOG00000013322  
Hs Gene description: SIMILAR TO PUTATIVE NEURONAL CELL ADHESION MOLECULE.  
[Source:SPTREMBL;Acc:Q8IVU1]

let-7g ENSG00000174498 2458 nt UTR 4 hits 452 534 685 762  
-----1--1--1--1--1-----1--1-----  
-----

>ENSG00000174498 hs-let-7g 452 459

```

UGAGGUAGUAGUUUGUACAGUU&UCAGGAUGGAUUUUUGCUGUUUUGGCUCUCAGCACCUACCUCAG
(((((((((((((...((((&.....))))))...))))). -21.50
>ENSG00000174498 hs-let-7g      534      541
UGAGGUAGUAGUUUGUACAGUU&UCAGCCCCCUUACCCCACAGAGCCCGAAUGCACUCCUACCUCAA
(((((((((((((...((((&.....))))))...))))). -19.50
>ENSG00000174498 hs-let-7g      685      692
UGAGGUAGUAGUUUGUACAGUU&AGCACUUCCCCAUUUCCAGAUGUGAAAGAAAUGUCUACCUCAA
(((((((((((((...((((&.....))))))...))))). -19.80
>ENSG00000174498 hs-let-7g      762      769
UGAGGUAGUAGUUUGUACAGUU&GACCUGCCUCCCCGCCCUCCUGCCCACAGCCCACCUACCUCU
.(((((((((((((...((((&.....))))))...))))). -19.00
let-7g      ENSMUSG00000032394  2523 nt UTR      4 hits 388 468 633 714
-----1--1-----1--1-----
-----
>ENSMUSG00000032394 hs-let-7g      388      395
UGAGGUAGUAGUUUGUACAGUU&CAGGAUGGAUUUUUGAGCUGUUGUGACUCUCAGCACCUACCUCAG
(((((((((((((...((((&.....))))))...))))). -22.70
>ENSMUSG00000032394 hs-let-7g      468      475
UGAGGUAGUAGUUUGUACAGUU&CCUCCGCCUCUACCCCACAGAGCCCGAAAGCACUCCUACCUCAA
(((((((((((((...((((&.....))))))...))))). -18.90
>ENSMUSG00000032394 hs-let-7g      633      640
UGAGGUAGUAGUUUGUACAGUU&ACCACUGUCCCAACUCCAAGUGUGAAAGAAACUGUCUACCUCAG
(((((((((((((...((((&.....))))))...))))). -24.40
>ENSMUSG00000032394 hs-let-7g      714      721
UGAGGUAGUAGUUUGUACAGUU&GACCCUCCCCCAGCCUCCUUCAUCCUGGCCUAGCCUACCUCU
.(((((((((((((...((((&.....))))))...))))). -19.70
let-7g      ENSRNOG00000013322  2000 nt UTR      4 hits 470 550 703 788
-----1--1-----1--1-----
-----
>ENSRNOG00000013322 hs-let-7g      470      477
UGAGGUAGUAGUUUGUACAGUU&CUCAGGAUGGAUUUUUAGCUGUUGUGACUCAGCACCUACCUCAG
(((((((((((((...((((&.....))))))...))))). -23.20
>ENSRNOG00000013322 hs-let-7g      550      557
UGAGGUAGUAGUUUGUACAGUU&CCUCAGCCUCUACCCCACAGAGCCCGAAAGCACUCCUACCUCAA
(((((((((((((...((((&.....))))))...))))). -18.90
>ENSRNOG00000013322 hs-let-7g      703      710
UGAGGUAGUAGUUUGUACAGUU&ACCACUGUCCCAACUCCAAGUGUGAAAGAAACUGUCUACCUCAA
(((((((((((((...((((&.....))))))...))))). -24.40
>ENSRNOG00000013322 hs-let-7g      788      795
UGAGGUAGUAGUUUGUACAGUU&CUCCUUGGCCUCCUCCUCCUGGCCUGGCCUGGCCUACCUCU
.(((((((((((((...((((&.....))))))...))))). -20.00

```

```

miRNA: let-7g
Human predicted target: ENSG00000182541
Mouse predicted target: ENSMUSG00000020451
Rat predicted target: ENSRNOG00000019000

```

Hs Gene description: LIM DOMAIN KINASE 2 (EC 2.7.1.-) (LIMK-2).  
[Source:SWISSPROT;Acc:P53671] NM\_016733

let-7g ENSG00000182541 3637 nt UTR 2 hits 1098 2572

-----1-----  
-----1-----  
>ENSG00000182541 hs-let-7g 1098 1105  
UGAGGUAGUAGUUUGUACAGUU&AGAGAGAUAGCUCCUGAGCUGGGCCAUCUGACUUCUACCUCC  
.(((((((((((((.....))))))..)).....))))). -23.80  
>ENSG00000182541 hs-let-7g 2572 2579  
UGAGGUAGUAGUUUGUACAGUU&GCCUUUAACAAGGGCUGUCUAGAUUUAUUUUAACUACCUCC  
.(((((((((((((.....))))))..)).....))))). -21.30  
let-7g ENSMUSG00000020451 3482 nt UTR 2 hits 140 976

-----1-----  
-----1-----  
>ENSMUSG00000020451 hs-let-7g 140 147  
UGAGGUAGUAGUUUGUACAGUU&GAAGGCUUGCUUAGAGGCACAACAAGCCAUCCCUACUACCUCC  
.(((((((((((((.....))))))..)).....))))). -20.80  
>ENSMUSG00000020451 hs-let-7g 976 983  
UGAGGUAGUAGUUUGUACAGUU&AGGAAAAGAACACCCUGAGCUGGGCCUUGUAGAUUCUACCUCU  
.(((((((((((((.....))))))..)).....))))). -21.70  
let-7g ENSRNOG00000019000 4867 nt UTR 2 hits 958 1727

-----1-----  
-----1-----  
>ENSRNOG00000019000 hs-let-7g 958 965  
UGAGGUAGUAGUUUGUACAGUU&AUUGACGGCUUGCUUAGAAGCAGAACAAGCCAUCCCUACCUCC  
.(((((((((((((.....))))))..)).....))))). -19.50  
>ENSRNOG00000019000 hs-let-7g 1727 1734  
UGAGGUAGUAGUUUGUACAGUU&AUGAAGAGAGCUCCUGAGCUGGACCUUGUAGAGUCUACCUCU  
.(((((((((((((.....))))))..)).....))))). -19.30

miRNA: let-7i

Human predicted target: ENSG00000022567  
Mouse predicted target: ENSMUSG00000036649  
Rat predicted target: ENSRNOG00000007818

let-7i ENSG00000022567 7016 nt UTR 2 hits 1056 5277

-----1-----  
-----1-----  
>ENSG00000022567 hs-let-7i 1056 1063  
UGAGGUAGUAGUUUGUGCUGUU&CCAGCGGGCCCUGCCUCCCAAGUCCCGCCGCAAGGCUACCUCGG  
(((((((((((((.....))))))..)).....))))). -22.19  
>ENSG00000022567 hs-let-7i 5277 5284  
UGAGGUAGUAGUUUGUGCUGUU&GCCUGUUCUGGUGGAGCCGGGGUGGGGCCCGCGGUCUACCUCU  
.(((((((((((((.....))))))..)).....))))). -21.50  
let-7i ENSMUSG00000036649 2000 nt UTR 2 hits 896 952

-----1-1-----  
-----  
>ENSMUSG00000036649 hs-let-7i 896 903  
UGAGGUAGUAGUUUGUGCUGUU&CAGGUGAGCAUCGGCUCGCCGAGUCCUGCUGCACGGCUACCUCGA  
((((((((((.....((((((..&.....))))))))))))). -24.00  
>ENSMUSG00000036649 hs-let-7i 952 959  
UGAGGUAGUAGUUUGUGCUGUU&GUGGCAUCAGAGCAGGGCGCGGGAAGGGGCCGAGCCUACCUC  
((((((((((.....((((((..&.....))))))))))))). -23.00  
let-7i ENSRNOG00000007818 2000 nt UTR 2 hits 892 948

-----1-1-----  
-----  
>ENSRNOG00000007818 hs-let-7i 892 899  
UGAGGUAGUAGUUUGUGCUGUU&CCAGGUGAGCAUUGGCUCCCAUCCUGCUGCAAGGCUACCUCGA  
((((((((((((.....((((((...&.....)))))).....))))))))). -24.42  
>ENSRNOG00000007818 hs-let-7i 948 955  
UGAGGUAGUAGUUUGUGCUGUU&UGGCAUCAGAGCAGGGCACGUGAAGGUGCCGGGGCCUACCUC  
((((((((((.....((((((..&.....)))))).....))))))))). -20.93

miRNA: let-7i

Human predicted target: ENSG00000082153

Mouse predicted target: ENSMUSG00000026033

Rat predicted target: ENSRNOG00000013977

Hs Gene description: BASIC LEUCINE ZIPPER AND W2 DOMAINS 1; BASIC LEUCINE-ZIPPER PROTEIN BZAP45. [Source:RefSeq;Acc:NM\_014670]

let-7i ENSG00000082153 2000 nt UTR 2 hits 84 251

---1-----1-----  
-----  
>ENSG00000082153 hs-let-7i 84 91  
UGAGGUAGUAGUUUGUGCUGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUUAUCAUCUCCUACCUC  
((((((((((.....((((((...&.....)))))).....))))))))). -17.80  
>ENSG00000082153 hs-let-7i 251 258  
UGAGGUAGUAGUUUGUGCUGUU&GAAUCUAAUGUUGCAUUGUCUUUUCAGUUAUCUUCUACCUC  
((((((((((.....((((((..&.....)))))).....))))))))). -20.00  
let-7i ENSMUSG00000026033 2413 nt UTR 2 hits 84 252

---1-----1-----  
-----  
>ENSMUSG00000026033 hs-let-7i 84 91  
UGAGGUAGUAGUUUGUGCUGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUUAUCAUCUCCUACCUC  
((((((((((.....((((((...&.....)))))).....))))))))). -17.80  
>ENSMUSG00000026033 hs-let-7i 252 259  
UGAGGUAGUAGUUUGUGCUGUU&UUGAAUCUGAUGUUGCAUUGGUUUUCAGUUAACCUUCUACCUC  
((((((((((.....((((((..&.....)))))).....))))))))). -19.30  
let-7i ENSRNOG00000013977 2000 nt UTR 2 hits 760 920

-----1-1-----  
-----  
>ENSRNOG00000013977 hs-let-7i 760 767  
UGAGGUAGUAGUUUGUGCUGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUUAUCAUCUCCUACCUC

.(((((((..(((.....&.....)))))))).) -17.80  
>ENSRNOG00000013977 hs-let-7i 920 927  
UGAGGUAGUAGUUUGUGCUGUU&ACGGAAGCUGGCGCUGCACUGGUCUUCAGUUCCCUCUACCUCC  
.(((((((..(((.....&.....)))))))).) -21.33

miRNA: let-7i

Human predicted target: ENSG00000100823  
Mouse predicted target: ENSMUSG00000035960  
Rat predicted target: ENSRNOG00000009663  
Hs Gene description: DNA-(APURINIC OR APYRIMIDINIC SITE) LYASE (EC  
4.2.99.18) (AP ENDONUCLEASE 1) (APEX NUCLEASE) (APEN) (REF-1 PROTEIN).  
[Source:SWISSPROT;Acc:P27695] NM\_080649

let-7i ENSG00000100823 2259 nt UTR 2 hits 911 1250  
-----1-----1-----

>ENSG00000100823 hs-let-7i 911 918  
UGAGGUAGUAGUUUGUGCUGUU&GCCCCUCAAACCUAAGUGAGGGCCUGGUUCCUCCUACCUCU  
.(((((((..(((.....&.....)))))))).) -17.50  
>ENSG00000100823 hs-let-7i 1250 1257

UGAGGUAGUAGUUUGUGCUGUU&GAAGAAAAGAAAGAUGGGGUUAAUGUUGGUCUCCACUACCUCC  
.(((((((..(((.....&.....)))))))).) -16.80  
let-7i ENSMUSG00000035960 2165 nt UTR 2 hits 308 884  
-----1-----1-----

>ENSMUSG00000035960 hs-let-7i 308 315  
UGAGGUAGUAGUUUGUGCUGUU&CAGAUGAGUCCCUAACCUCCUCCCAAGACAGUGACCCUACCUCAG  
(((((((..(((.....&.....)))))))).) -22.60  
>ENSMUSG00000035960 hs-let-7i 884 891

UGAGGUAGUAGUUUGUGCUGUU&UCCAAACAUAAGGAAGGAAGGGACUGCUUCCUCCUACCUCU  
.(((((((..(((.....&.....)))))))).) -18.26  
let-7i ENSRNOG00000009663 2102 nt UTR 2 hits 246 734  
-----1-----1-----

>ENSRNOG00000009663 hs-let-7i 246 253  
UGAGGUAGUAGUUUGUGCUGUU&CAGAUGAAUCCUGACCUCUCCCAAGACAGUGACCCUACCUCAG  
(((((((..(((.....&.....)))))))).) -22.60  
>ENSRNOG00000009663 hs-let-7i 734 741

UGAGGUAGUAGUUUGUGCUGUU&ACCCUCAAACCUAAGUCAGGGGCUGGUUCCUCCUACCUCU  
.(((((((..(((.....&.....)))))))).) -20.70

miRNA: let-7i

Human predicted target: ENSG00000119906  
Mouse predicted target: ENSMUSG00000036097  
Rat predicted target: ENSRNOG00000014489  
Hs Gene description: C10ORF6. [Source:RefSeq;Acc:NM\_018121] NM\_144592  
let-7i ENSG00000119906 2862 nt UTR 2 hits 1326 1560





let-7i ENSMUSG00000017639 2000 nt UTR 2 hits 311 636  
-----1-----1-----  
-----

>ENSMUSG00000017639 hs-let-7i 311 318  
UGAGGUAGUAGUUUGUGCUGUU&UGGAAGCUUGCAUUUAGGAUACUGAUGAAAUGAUUCUACCUCU  
.(((((((((((((.((((.((((.((((.&.....))))))..))))).)))))))). -18.91  
>ENSMUSG00000017639 hs-let-7i 636 643

UGAGGUAGUAGUUUGUGCUGUU&UCGUAGUUUUCUGAGCCCCUCCAGUCUUGCUUGCCUACCUC  
.(((((((((((((.((((.((((.((((.&.....))))))..))))).)))))))). -21.10  
let-7i ENSRNOG00000014135 2000 nt UTR 2 hits 331 660  
-----1-----1-----

-----  
>ENSRNOG00000014135 hs-let-7i 331 338  
UGAGGUAGUAGUUUGUGCUGUU&UGGAAGCUUGCAUUUCAGAUACUGAUGACAUGAUUCUACCUCU  
.(((((((((((((.((((.((((.((((.&.....))))))..))))).)))))))). -19.00  
>ENSRNOG00000014135 hs-let-7i 660 667  
UGAGGUAGUAGUUUGUGCUGUU&AGUUUUCUGUGCCCUUCCAGCCAGUCUUGCUUGCCUACCUC  
.(((((((((((((.((((.((((.((((.&.....))))))..))))).)))))))). -22.20

miRNA: let-7i  
Human predicted target: ENSG00000135912  
Mouse predicted target: ENSMUSG00000033257  
Rat predicted target: ENSRNOG00000017129  
Hs Gene description: NM\_014640

let-7i ENSG00000135912 2000 nt UTR 2 hits 45 983  
-1-----1-----  
-----

>ENSG00000135912 hs-let-7i 45 52  
UGAGGUAGUAGUUUGUGCUGUU&CUCCAAAAGCCUCUGCCCAGGAGCAUGGGCAUCAGCUACCUCAC  
(((((((((((((.((((.((((.((((.&.....))))))..))))).)))))))). -27.90  
>ENSG00000135912 hs-let-7i 983 990

UGAGGUAGUAGUUUGUGCUGUU&CAAACCUCAGACUAAACUCUUGUACUGAACUGAUUCUACCUC  
.(((((((((((((.((((.((((.((((.&.....))))))..))))).)))))))). -22.30  
let-7i ENSMUSG00000033257 2000 nt UTR 3 hits 617 1137 1899  
-----1-----1-----

-----  
>ENSMUSG00000033257 hs-let-7i 617 624  
UGAGGUAGUAGUUUGUGCUGUU&UUUGUUUAUAGUGGUCUCUGCCAACAUCGCUAUGACUACCUCAA  
(((((((((((((.((((.((((.((((.&.....))))))..))))).)))))))). -24.40  
>ENSMUSG00000033257 hs-let-7i 1137 1144

UGAGGUAGUAGUUUGUGCUGUU&UGAGCUCGUGACUGGUCCUGCACAGGAGCAGCUCAGCUACCUCAA  
(((((((((((((.((((.((((.((((.&.....))))))..))))).)))))))). -26.50  
>ENSMUSG00000033257 hs-let-7i 1899 1906  
UGAGGUAGUAGUUUGUGCUGUU&GCUUCUCAUCUCUGACAGCUAAUACUCAGUGGCAUCUACCUC  
.(((((((((((((.((((.((((.((((.&.....))))))..))))).)))))))). -22.20  
let-7i ENSRNOG00000017129 2000 nt UTR 2 hits 883 1581

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

>ENSRNOG00000017129 hs-let-7i 883 890  
UGAGGUAGUAGUUUGUGCUGUU&UGAGCCCAUGACUGGUCCUACACAGGAGCACUCAGCUACCUCAA  
(((((((((.(((((&.....)))))).)))))). -26.50  
>ENSRNOG00000017129 hs-let-7i 1581 1588  
UGAGGUAGUAGUUUGUGCUGUU&GCUUCUCAUCUCUGACAGUAAUACUCAACUGCAUCUACCUCC  
(((((((((.(((((&.....)))))).)))))). -21.70

miRNA: let-7i

Human predicted target: ENSG00000140548

Mouse predicted target: ENSMUSG00000048897

Rat predicted target: ENSRNOG00000014278

let-7i ENSG00000140548 2964 nt UTR 2 hits 528 1859

-----1-----

>ENSG00000140548 hs-let-7i 528 535  
UGAGGUAGUAGUUUGUGCUGUU&CUGUCGACGGACCGCCAGGCAGGGCACUCUGCCUUCUACCUCC  
(((((((((.(((((&.....)))))).)))))). -25.00

>ENSG00000140548 hs-let-7i 1859 1866  
UGAGGUAGUAGUUUGUGCUGUU&UUCUCCUGCUGAGCAGAAGGCAUCAUCCCCUGCAAACUACCUCU  
(((((((((.(((((&.....)))))).)))))). -22.20

let-7i ENSMUSG00000048897 2000 nt UTR 2 hits 519 1756

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

>ENSMUSG00000048897 hs-let-7i 519 526  
UGAGGUAGUAGUUUGUGCUGUU&CUAUCACUCAAGAGCCAGGCAGGGCACUCUGCCUUCUACCUCC  
(((((((((.(((((&.....)))))).)))))). -25.00

>ENSMUSG00000048897 hs-let-7i 1756 1763  
UGAGGUAGUAGUUUGUGCUGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCUGCAAACUACCUCU  
(((((((((.(((((&.....)))))).)))))). -21.20

let-7i ENSRNOG00000014278 4055 nt UTR 3 hits 550 1647 2696

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

>ENSRNOG00000014278 hs-let-7i 550 557  
UGAGGUAGUAGUUUGUGCUGUU&CUGUCACUCAAGAGCCAGGCAGGGCACUCUGCCUUCUACCUCC  
(((((((((.(((((&.....)))))).)))))). -25.00

>ENSRNOG00000014278 hs-let-7i 1647 1654  
UGAGGUAGUAGUUUGUGCUGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCUGCAAACUACCUCU  
(((((((((.(((((&.....)))))).)))))). -21.20

>ENSRNOG00000014278 hs-let-7i 2696 2703  
UGAGGUAGUAGUUUGUGCUGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCUGCAAACUACCUCU  
(((((((((.(((((&.....)))))).)))))). -21.20

miRNA: let-7i

Human predicted target: ENSG00000148200  
Mouse predicted target: ENSMUSG00000026752  
Rat predicted target: ENSRNOG00000013232  
Hs Gene description: ORPHAN NUCLEAR RECEPTOR NR6A1 (GERM CELL NUCLEAR FACTOR) (GCNF) (RETINOID RECEPTOR-RELATED TESTIS SPECIFIC RECEPTOR) (RTR).  
[Source:SWISSPROT;Acc:Q15406] NM\_033335  
let-7i ENSG00000148200 2000 nt UTR 3 hits 388 1359 1387  
-----1-----11-----  
-----  
>ENSG00000148200 hs-let-7i 388 395  
UGAGGUAGUAGUUUGUGCUGUU&UAAGAUGACUAAUUAUGUUGACAAAGAUGACUACCUCAA  
(((((((((((((.....(((&.....)))))))).)))))))). -21.30  
>ENSG00000148200 hs-let-7i 1359 1366  
UGAGGUAGUAGUUUGUGCUGUU&GCCAGAAGCACCUGGAAGGGAAGGGGGCUUUAACUACCUCAG  
((((((((((((((((.....&.....)))))))).)))))))). -23.53  
>ENSG00000148200 hs-let-7i 1387 1394  
UGAGGUAGUAGUUUGUGCUGUU&CUUUAACUACCUCAGGUUCCUAAUGGCCCGGCUGCUACCUCU  
((((((((((((((.....(((&.....)))))))).)))))))). -29.10  
let-7i ENSMUSG00000026752 6457 nt UTR 8 hits 101 371 794 1228 3827  
4135 4145 4310  
----1-----1-----1-----1-----  
-----  
-----1-----2-----1-----  
-----  
>ENSMUSG00000026752 hs-let-7i 101 108  
UGAGGUAGUAGUUUGUGCUGUU&AAGAGCCAGAGACCAAGAUGGAGACUGUGGAGCAGCUACCUC  
(((((((((((((.....(((&.....)))))))).)))))))). -21.80  
>ENSMUSG00000026752 hs-let-7i 371 378  
UGAGGUAGUAGUUUGUGCUGUU&CUAGAUGAGUAAUUAUGUUGACAAAGACAACUACCUCAA  
(((((((((((((.....(((&.....)))))))).)))))))). -22.70  
>ENSMUSG00000026752 hs-let-7i 794 801  
UGAGGUAGUAGUUUGUGCUGUU&GAUCUACCAAGGCCUACCUUCUUCAGACCCCAUCCCUACCUCU  
((((((((((.....((.....((.....&.....)))))))).)))))))). -18.50  
>ENSMUSG00000026752 hs-let-7i 1228 1235  
UGAGGUAGUAGUUUGUGCUGUU&AGCCAGAAAGACCUAGAAAGGAAAGGGCAUUAACUACCUCAU  
((((((((((.....(((((.....(((&.....)))))))).)))))))). -23.60  
>ENSMUSG00000026752 hs-let-7i 3827 3834  
UGAGGUAGUAGUUUGUGCUGUU&UGUUUUUACUCAAAUUAUGGAGGAAAGACUACCUCU  
((((((((((.....((.....((.....&.....)))))))).)))))))). -20.90  
>ENSMUSG00000026752 hs-let-7i 4135 4142  
UGAGGUAGUAGUUUGUGCUGUU&AUUUCAGGGACUCUGAUGGCAAGUGCAUCAUGAACCUACCUCAG  
((((((((((.....((.....((.....&.....)))))))).)))))))). -24.00  
>ENSMUSG00000026752 hs-let-7i 4145 4152  
UGAGGUAGUAGUUUGUGCUGUU&CUCUGAUGGCAAGUGCAUCAUGAACCUACCUCAGGCUACCUC  
((((((((((.....((.....((.....&.....)))))))).)))))))). -22.60  
>ENSMUSG00000026752 hs-let-7i 4310 4317  
UGAGGUAGUAGUUUGUGCUGUU&AGUUGGCGGGCUCUGCAGGCUCUCAGGCCUCUGCUACCUC  
((((((((((((((((.....((.....((.....&.....)))))))).)))))))). -25.00

let-7i ENSRNOG00000013232 5506 nt UTR 9 hits 374 774 1223 2875 3184  
3194 3359 3736 4193

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

>ENSRNOG00000013232 hs-let-7i 374 381  
UGAGGUAGUAGUUUGUGCUGUU&CUAGGUGACUAAUUUCAUAUGUUGACAAAGACAACUACCUCAG  
(((((((((((((.....(((&.....)))))))).))))). -22.70  
>ENSRNOG00000013232 hs-let-7i 774 781  
UGAGGUAGUAGUUUGUGCUGUU&UAGCUGCCUGGUUCCUGACCCAGGUCUACCAGGCCUACCUC  
(((((((((((((.....(((&.....)))))))).))))). -17.83  
>ENSRNOG00000013232 hs-let-7i 1223 1230  
UGAGGUAGUAGUUUGUGCUGUU&AGCCAGAAGCACCUAGAAGGGAAAGGGCCUUUAACUACCUCAU  
((((((((((((((((.....&.....)))))))).))))). -23.41  
>ENSRNOG00000013232 hs-let-7i 2875 2882  
UGAGGUAGUAGUUUGUGCUGUU&UGUUUUUAUCAAGUUUCAUGGGGGGAAAAGACUACCUCU  
(((((((((((((.....(((&.....)))))))).))))). -20.80  
>ENSRNOG00000013232 hs-let-7i 3184 3191  
UGAGGUAGUAGUUUGUGCUGUU&UUGGAUUUCAGGGACUCUGAUGGCAAGUGGUGAACCUACCUCAG  
(((((((((((((.....(((&.....)))))))).))))). -22.10  
>ENSRNOG00000013232 hs-let-7i 3194 3201  
UGAGGUAGUAGUUUGUGCUGUU&GGGACUCUGAUGGCAAGUGGUGAACCUACCUCAGGCCUACCUC  
(((((((((((((.....(((&.....)))))))).))))). -20.71  
>ENSRNOG00000013232 hs-let-7i 3359 3366  
UGAGGUAGUAGUUUGUGCUGUU&AGUUGGCGGGCUCUGCAGGCUCUCAGGCCUCUGCUACCUC  
((((((((((((((((.....(((&.....)))))))).))))). -25.00  
>ENSRNOG00000013232 hs-let-7i 3736 3743  
UGAGGUAGUAGUUUGUGCUGUU&UAGCUGCCUGGUUCCUGACCCAGGUCUACCAGGCCUACCUC  
(((((((((((((.....(((&.....)))))))).))))). -17.83  
>ENSRNOG00000013232 hs-let-7i 4193 4200  
UGAGGUAGUAGUUUGUGCUGUU&AGCCAGAAGCACCUAGAAGGGAAAGGGCCUUUAACUACCUCAU  
((((((((((((((((.....&.....)))))))).))))). -23.41

miRNA: let-7i  
Human predicted target: ENSG00000159723  
Mouse predicted target: ENSMUSG00000005705  
Rat predicted target: ENSRNOG00000017573  
Hs Gene description: AGOUTI-RELATED PROTEIN PRECURSOR.  
[Source:SWISSPROT;Acc:O00253] NM\_001138  
let-7i ENSG00000159723 2065 nt UTR 3 hits 1113 1645 1832  
-----1-----1-----  
1-----  
>ENSG00000159723 hs-let-7i 1113 1120  
UGAGGUAGUAGUUUGUGCUGUU&UGGCCUCAAGUUCGCCUCCAGACCCUAUUCUCCUACCUCAA  
(((((((((((((.....(((&.....)))))))).))))). -20.30  
>ENSG00000159723 hs-let-7i 1645 1652  
UGAGGUAGUAGUUUGUGCUGUU&CGCGGCCUGAAGGCCGGGUGCUCAGCCAGGCCGACUACCUCAA

(((((((((((((.....)))))))))))). -29.10  
>ENSG00000159723 hs-let-7i 1832 1839

UGAGGUAGUAGUUUGUGCUGUU&UCCUGGGGCGUAUAGCGGACGCGCAGGAGCGGGAUCUACCUCU  
(((((((((((((.....)))))))))))). -26.10  
let-7i ENSMUSG00000005705 2000 nt UTR 1 hits 939

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

>ENSMUSG00000005705 hs-let-7i 939 946  
UGAGGUAGUAGUUUGUGCUGUU&CGCGGCCUGAAGGCCGGGUGCUCAGCCAGGCGGACUACCUCAA

(((((((((((((.....)))))))))))). -30.30  
let-7i ENSRNOG00000017573 2000 nt UTR 1 hits 886

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

>ENSRNOG00000017573 hs-let-7i 886 893  
UGAGGUAGUAGUUUGUGCUGUU&CGCGGCCUGAAGGCCGGGUGCUCAGCCAGGCGGACUACCUCAA

(((((((((((((.....)))))))))))). -30.30

miRNA: let-7i

Human predicted target: ENSG00000163935

Mouse predicted target: ENSMUSG00000006527

Rat predicted target: ENSRNOG00000016645

Hs Gene description: SCM-RELATED GENE CONTAINING FOUR MBT DOMAINS.

[Source:RefSeq;Acc:NM\_016329]

let-7i ENSG00000163935 2000 nt UTR 2 hits 604 944  
-----1-----1-----

-----  
>ENSG00000163935 hs-let-7i 604 611

UGAGGUAGUAGUUUGUGCUGUU&AUUUUAAAUCGAUUCUAGGAGUCCUUGUUUACUACCUCU  
(((((((((((((.....)))))))))))). -19.72

>ENSG00000163935 hs-let-7i 944 951  
UGAGGUAGUAGUUUGUGCUGUU&UUAUUUUGUUUACUUUCUCUAGAGUUGUUUGUCUACCUCU

(((((((((((((.....)))))))))))). -16.66  
let-7i ENSMUSG00000006527 2000 nt UTR 2 hits 578 904

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

>ENSMUSG00000006527 hs-let-7i 578 585  
UGAGGUAGUAGUUUGUGCUGUU&CAUUUUAAAUCUAUUCUAGGAGUCCUUGUUUACUACCUCU

(((((((((((((.....)))))))))))). -19.72

>ENSMUSG00000006527 hs-let-7i 904 911  
UGAGGUAGUAGUUUGUGCUGUU&UUAUUUUGUUUUAUUCUUCUGUUAGAGUUGUUUAAUACUACCUCU

(((((((((((((.....)))))))))))). -17.62  
let-7i ENSRNOG00000016645 2099 nt UTR 2 hits 559 888

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

>ENSRNOG00000016645 hs-let-7i 559 566  
UGAGGUAGUAGUUUGUGCUGUU&CAUUUUAAAUCUGUCUAGGAGUCCUUGUUUACUACCUCU

(((((((((((((.....)))))))))))). -19.72

>ENSRNOG00000016645 hs-let-7i 888 895  
UGAGGUAGUAGUUUGUGCUGUU&UGGUUUUAUGCUUAGUUUCUGUAGAGUUGUUUAACUACCUCU  
((((((((.....(((.&.....)))))))). -17.62

miRNA: let-7i

Human predicted target: ENSG00000166106

Mouse predicted target: ENSMUSG00000033453

Rat predicted target: ENSRNOG00000009892

Hs Gene description: ADAMTS-15 PRECURSOR (EC 3.4.24.-) (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 15) (ADAM-TS 15) (ADAM-TS15).

[Source:SWISSPROT;Acc:Q8TE58] NM\_139055

let-7i ENSG00000166106 2000 nt UTR 2 hits 206 1185

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

>ENSG00000166106 hs-let-7i 206 213  
UGAGGUAGUAGUUUGUGCUGUU&CUGGGCAGAGGGAAGCCAGGAACUCCCGCACAGUCUACCUCAG  
((((((((.....((((((.....&.....)))))))). -25.10

>ENSG00000166106 hs-let-7i 1185 1192  
UGAGGUAGUAGUUUGUGCUGUU&CGUUGCAUCCUAGGCCUAGCUUCUCCACUGUUUGCUACCUCAG  
((((((((((((.....((((((.....&.....)))))))). -23.60

let-7i ENSMUSG00000033453 5361 nt UTR 2 hits 692 1642  
-----1-----1-----  
-----

>ENSMUSG00000033453 hs-let-7i 692 699  
UGAGGUAGUAGUUUGUGCUGUU&UGGACUGGGCAGGGGAAGUUAACUAAUGCACAGUCUACCUCAU  
((((((((.....((((((.....&.....)))))))). -24.30

>ENSMUSG00000033453 hs-let-7i 1642 1649  
UGAGGUAGUAGUUUGUGCUGUU&CAGUUCUCUGGUAGGUAAACGGGCUUCAUUGUUUGCUACCUCAG  
((((((((((((.....((((((.....&.....)))))))). -24.20

let-7i ENSRNOG00000009892 4706 nt UTR 3 hits 194 1084 3012  
-----1-----1-----  
-----

>ENSRNOG00000009892 hs-let-7i 194 201  
UGAGGUAGUAGUUUGUGCUGUU&UGGACUCGGCAGGGGAAGCUAACUAAUGCACAGUCUACCUCAU  
((((((((.....((((((.....&.....)))))))). -24.30

>ENSRNOG00000009892 hs-let-7i 1084 1091  
UGAGGUAGUAGUUUGUGCUGUU&CAUCUCUCUGGUAGGUAAACGGGGCUCAUUGUUUGCUACCUCAG  
((((((((((((.....((((((.....&.....)))))))). -26.00

>ENSRNOG00000009892 hs-let-7i 3012 3019  
UGAGGUAGUAGUUUGUGCUGUU&CAUCUCUCUGGUAGGUAAACGGGGCUCAUUGUUUGCUACCUCAG  
((((((((((((.....((((((.....&.....)))))))). -26.00

miRNA: let-7i

Human predicted target: ENSG00000169635





```

let-7i      ENSG00000174498      2458 nt UTR      4 hits 452 534 685 762
-----1--1-----1--1-----
-----
>ENSG00000174498 hs-let-7i      452      459
UGAGGUAGUAGUUUGUGCUGUU&UCAGGAUGGAUUUUUGCUGUUUUGGCUCUCAGCACCUACCUCAG
((((((((.....((((((..&.....))))))))))))). -24.00
>ENSG00000174498 hs-let-7i      534      541
UGAGGUAGUAGUUUGUGCUGUU&UCAGCCCCCUUACCCCACAGAGCCCAGAAUGCACUCCUACCUCAA
(((((((((((((.....((.....&.....)))))).....))))))))). -22.40
>ENSG00000174498 hs-let-7i      685      692
UGAGGUAGUAGUUUGUGCUGUU&AGCACUUCSCCAUUUCCAGAUGUGAAAGAAAUGUCUACCUCAA
(((((((((((((.....((.....&.....)))))).....))))))))). -20.75
>ENSG00000174498 hs-let-7i      762      769
UGAGGUAGUAGUUUGUGCUGUU&GACCUGCCUCCCCGCCCUCCUGCCCACAGCCCACCUACCUCU
((((((((.....((.....&.....)))))).....))))). -21.20
let-7i      ENSMUSG00000032394      2523 nt UTR      4 hits 388 468 633 714
-----1--1-----1--1-----
-----
>ENSMUSG00000032394 hs-let-7i      388      395
UGAGGUAGUAGUUUGUGCUGUU&CAGGAUGGAUUUUUGAGCUGUUGUGACUCUCAGCACCUACCUCAG
((((((((.....((((((..&.....))))))))))))). -24.00
>ENSMUSG00000032394 hs-let-7i      468      475
UGAGGUAGUAGUUUGUGCUGUU&CCUCCGCCUCUACCCCACAGAGCCCAGAAAGCACUCCUACCUCAA
(((((((((((((.....((.....&.....)))))).....))))))))). -22.40
>ENSMUSG00000032394 hs-let-7i      633      640
UGAGGUAGUAGUUUGUGCUGUU&ACCACUGUCCCAACUCCAAGUGUGAAAGAAACUGUCUACCUCAG
(((((((((((((.....((.....&.....)))))).....))))))))). -22.70
>ENSMUSG00000032394 hs-let-7i      714      721
UGAGGUAGUAGUUUGUGCUGUU&GACCUCSCCCAGCCUCCUUCAUCCUGGCCUAGCCUACCUCU
((((((((.....((.....&.....)))))).....))))). -19.20
let-7i      ENSRNOG00000013322      2000 nt UTR      4 hits 470 550 703 788
-----1--1-----1--1-----
-----
>ENSRNOG00000013322 hs-let-7i      470      477
UGAGGUAGUAGUUUGUGCUGUU&CUCAGGAUGGAUUUUUAGCUGUUGUGACUCAGCACCUACCUCAG
((((((((.....((((((..&.....))))))))))))). -24.00
>ENSRNOG00000013322 hs-let-7i      550      557
UGAGGUAGUAGUUUGUGCUGUU&CCUCAGCCUCUACCCCACAGAGCCCAGAAAGCACUCCUACCUCAA
(((((((((((((.....((.....&.....)))))).....))))))))). -22.40
>ENSRNOG00000013322 hs-let-7i      703      710
UGAGGUAGUAGUUUGUGCUGUU&ACCACUGUCCCAACUCCAAGUGUGAAAGAAACUGUCUACCUCAA
(((((((((((((.....((.....&.....)))))).....))))))))). -22.70
>ENSRNOG00000013322 hs-let-7i      788      795
UGAGGUAGUAGUUUGUGCUGUU&CUCCUUGGCCUCCUCCUCCUCCUGGCCUGGCCUAGCCUACCUCU
((((((((.....((.....&.....)))))).....))))). -19.50

```

miRNA: let-7i

Human predicted target: ENSG00000182541  
Mouse predicted target: ENSMUSG00000020451  
Rat predicted target: ENSRNOG00000019000  
Hs Gene description: LIM DOMAIN KINASE 2 (EC 2.7.1.-) (LIMK-2).  
[Source:SWISSPROT;Acc:P53671] NM\_016733  
let-7i ENSG00000182541 3637 nt UTR 2 hits 1098 2572

-----1-----  
-----1-----  
>ENSG00000182541 hs-let-7i 1098 1105  
UGAGGUAGUAGUUUGUGCUGUU&AGAGAGAUAGCUCCUGAGCUGGGCCAUCUGACUUCUACCUC  
.(((((((((((((...((((&.....)))))).....)))))))). -22.05  
>ENSG00000182541 hs-let-7i 2572 2579  
UGAGGUAGUAGUUUGUGCUGUU&GCCUUUAACAAGGGCUGUCUAGAUUUUUAUUUUAACUACCUC  
.(((((((((((((...((((&.....)))))).....)))))))). -18.33  
let-7i ENSMUSG00000020451 3482 nt UTR 2 hits 140 976  
-----1-----1-----

-----1-----  
-----1-----  
>ENSMUSG00000020451 hs-let-7i 140 147  
UGAGGUAGUAGUUUGUGCUGUU&GAAGGCUUGCUUAGAGGCACAACAAGCCAUCCCUACUACCUC  
.(((((((((((((...((((&.....)))))).....)))))))). -26.80  
>ENSMUSG00000020451 hs-let-7i 976 983  
UGAGGUAGUAGUUUGUGCUGUU&AGGAAAAGAACACCCUGAGCUGGGCCUUGUAGAUUCUACCUCU  
.(((((((((((((...((((&.....)))))).....)))))))). -20.20  
let-7i ENSRNOG00000019000 4867 nt UTR 2 hits 958 1727  
-----1-----1-----

-----1-----  
-----1-----  
>ENSRNOG00000019000 hs-let-7i 958 965  
UGAGGUAGUAGUUUGUGCUGUU&AUUGACGGCUUGCUUAGAAGCAGAACAAGCCAUCCCUACUACCUC  
.(((((((((((((...((((&.....)))))).....)))))))). -24.80  
>ENSRNOG00000019000 hs-let-7i 1727 1734  
UGAGGUAGUAGUUUGUGCUGUU&AUGAAGAGAGCUCCUGAGCUGGACCUUGUAGAGUCUACCUCU  
.(((((((((((((...((((&.....)))))).....)))))))). -20.01

miRNA: mir-7

Human predicted target: ENSG00000136826  
Mouse predicted target: ENSMUSG00000003032  
Rat predicted target: ENSRNOG00000016299  
Hs Gene description: KRUPPEL-LIKE FACTOR 4 (EPITHELIAL ZINC-FINGER PROTEIN  
EZF) (GUT- ENRICHED KRUEPPEL-LIKE FACTOR). [Source:SWISSPROT;Acc:O43474]  
NM\_004235  
mir-7 ENSG00000136826 2897 nt UTR 2 hits 66 574

-----1-----1-----  
-----1-----  
>ENSG00000136826 hs-mir-7 66 73  
UGGAAGACUAGUGAUUUUGUU&CAGAAGAGAAUUCAGUAUUUUUUACUUUUCACACUGUCUCCC  
.(((((((((((((...((((&.....)))))).....)))))))). -19.20

>ENSG00000136826 hs-mir-7 574 581  
UGGAAGACUAGUGAUUUUGUU&ACUGCUGCAUACUUUGACAAGGAAAAUCUAUAUUUGUCUCCGA  
((((((((.....((((((((&.....)))))))).))))). -19.30  
mir-7 ENSMUSG00000003032 2982 nt UTR 2 hits 74 650  
--1-----1-----

>ENSMUSG00000003032 hs-mir-7 74 81  
UGGAAGACUAGUGAUUUUGUU&AGAGUUCAGUAUUUUUUUUUCUAACCUUUCACACUGUCUCCC  
((((((((.....((((((((&.....)))))))).))))). -19.30  
>ENSMUSG00000003032 hs-mir-7 650 657  
UGGAAGACUAGUGAUUUUGUU&CUGCUGCAUACUUUGACAAGGAAAAUCUAGUUUUGUCUCCGA  
((((((((.....((((((((&.....)))))))).))))). -19.30  
mir-7 ENSRNOG00000016299 2971 nt UTR 2 hits 73 639  
--1-----1-----

>ENSRNOG00000016299 hs-mir-7 73 80  
UGGAAGACUAGUGAUUUUGUU&AGAGAGUUCAGUAUUUUUUUUUAACCUUUCACACUGUCUCCC  
((((((((.....((((((((&.....)))))))).))))). -19.30  
>ENSRNOG00000016299 hs-mir-7 639 646  
UGGAAGACUAGUGAUUUUGUU&ACUGCUGCAUACUUUGACAAGGAAAAUCUAUUUUUGUCUCCGA  
((((((((.....((((((((&.....)))))))).))))). -20.30

miRNA: mir-7

Human predicted target: ENSG00000139219  
Mouse predicted target: ENSMUSG00000022483  
Rat predicted target: ENSRNOG00000008809  
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&GGCUGGCAGGUCUGUGCUCCUGUGCCGCUUCCUUGUCUCCU  
((((((((.....&.....)))))))). -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&CCUUCUCUGUAUUCCAUCCAGAUGAGGAAUGGAAAGUCUCCC  
((((((((.....&.....)))))))). -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

miRNA: mir-7  
Human predicted target: ENSG00000148290  
Mouse predicted target: ENSMUSG00000015790  
Rat predicted target: ENSRNOG00000005098  
Hs Gene description: SURFEIT LOCUS PROTEIN 1.  
[Source:SWISSPROT;Acc:Q15526] NM\_003172

mir-7 ENSG00000148290 2105 nt UTR 2 hits 905 1219

-----1-----1-----  
-----  
>ENSG00000148290 hs-mir-7 905 912  
UGGAAGACUAGUGAUUUUGUU&CUGAUAGCUUCCACCAGCUUAGCCAAAGCGCCUUUGUCUCC  
.(((((((..((((((&.....)))))))).).....)))))))). -19.80  
>ENSG00000148290 hs-mir-7 1219 1226  
UGGAAGACUAGUGAUUUUGUU&ACGAGUUCACCUGUGUGAAGGCGACAGUGGUGCAGGUCUCCU  
.(((((((..((((((&.....)))))))).).....)))))))). -22.10  
mir-7 ENSMUSG00000015790 2048 nt UTR 2 hits 442 668

-----1-----1-----  
-----  
>ENSMUSG00000015790 hs-mir-7 442 449  
UGGAAGACUAGUGAUUUUGUU&CUAAUAGCUUCCACCAGCUUAGCCAGAGCACCCUUGUCUCCC  
.(((((((..((((((&.....)))))))).).....)))))))). -20.30  
>ENSMUSG00000015790 hs-mir-7 668 675  
UGGAAGACUAGUGAUUUUGUU&ACGAGUUAACCUGUGUGAAGGCAACGGUGGUGCAUGUCUCCU  
.(((((((..((((((&.....)))))))).).....)))))))). -18.50  
mir-7 ENSRNOG00000005098 2048 nt UTR 2 hits 510 763

-----1-----1-----  
-----  
>ENSRNOG00000005098 hs-mir-7 510 517  
UGGAAGACUAGUGAUUUUGUU&CUAAUAGCUUCCACCAGCUUAGCCAGAGCACCCUUGUCUCCC  
.(((((((..((((((&.....)))))))).).....)))))))). -20.30  
>ENSRNOG00000005098 hs-mir-7 763 770  
UGGAAGACUAGUGAUUUUGUU&ACGAGUUCACCUGUGUGAAGGCAACAGUGGUGCAUGUCUCCU  
.(((((((..((((((&.....)))))))).).....)))))))). -19.30

miRNA: mir-7  
Human predicted target: ENSG00000158480  
Mouse predicted target: ENSMUSG00000047030

Rat predicted target: ENSRNOG00000009207  
Hs Gene description: SPERMATOGENESIS ASSOCIATED PROTEIN 2 (SPERMATOGENESIS ASSOCIATED PROTEIN PD1). [Source:SWISSPROT;Acc:Q9UM82] NM\_006038

mir-7 ENSG00000158480 4225 nt UTR 2 hits 857 989  
-----1-----1-----

>ENSG00000158480 hs-mir-7 857 864  
UGGAAGACUAGUGAUUUUGUU&UAUGUAGCUAUUUUAUAAAUGCCCGGGUUCUUUAGUCUCCAA  
(((((((((((.(.(.....&.....)).)))))))) -21.30

>ENSG00000158480 hs-mir-7 989 996  
UGGAAGACUAGUGAUUUUGUU&GAAGCCUCCUUUCUUGAGCUGGUGGAGAGCCACUGUCUCC  
(((((((((((.(.(.....&.....)).)))))))) -20.50

mir-7 ENSMUSG00000047030 3953 nt UTR 4 hits 803 925 1476 1936  
-----1-----1-----1-----

>ENSMUSG00000047030 hs-mir-7 803 810  
UGGAAGACUAGUGAUUUUGUU&GAUACGGUAUUUAUAAAGGUGCCCGGGUUCUUUAGUCUCCAA  
(((((((((((.(.(.....&.....)).)))))))) -21.30

>ENSMUSG00000047030 hs-mir-7 925 932  
UGGAAGACUAGUGAUUUUGUU&GCCCAUGUUCUCCCAUGGUGGUAGAGAGCUACUGUCUCC  
(((((((((((.(.(.....&.....)).)))))))) -18.70

>ENSMUSG00000047030 hs-mir-7 1476 1483  
UGGAAGACUAGUGAUUUUGUU&UGGCCAAACCCUGAGCCACUGUGAAUUUGCUGGUGGUCUCCGA  
(((((((((((.(.(.....&.....)).)))))))) -20.30

>ENSMUSG00000047030 hs-mir-7 1936 1943  
UGGAAGACUAGUGAUUUUGUU&GAAUGUUGAGAGAUUUAAAAAAAAAAUAAAGUGUCUCCAU  
(((((((((((.(.(.....&.....)).)))))))) -17.90

mir-7 ENSRNOG00000009207 3881 nt UTR 6 hits 782 877 1382 1848 2336  
2802  
-----1-----1-----1-----

>ENSRNOG00000009207 hs-mir-7 782 789  
UGGAAGACUAGUGAUUUUGUU&GACAUGAUUUUAUAAAGGUGCCCGGGCUCUUUAGUCUCCAA  
(((((((((((.(.(.....&.....)).)))))))) -22.60

>ENSRNOG00000009207 hs-mir-7 877 884  
UGGAAGACUAGUGAUUUUGUU&GCCCAUGUUCUCCCAUGGUGGUAGAGAGCUACUGUCUCC  
(((((((((((.(.(.....&.....)).)))))))) -18.70

>ENSRNOG00000009207 hs-mir-7 1382 1389  
UGGAAGACUAGUGAUUUUGUU&UGGCCAAACCCUGAGCCACUGUGAAUUUGCUGGUGGUCUCCAA  
(((((((((((.(.(.....&.....)).)))))))) -21.00

>ENSRNOG00000009207 hs-mir-7 1848 1855  
UGGAAGACUAGUGAUUUUGUU&AAUGUUGAGAGACUUAAAAAAAAAAUAAUAAAGUGUCUCCAU  
(((((((((((.(.(.....&.....)).)))))))) -17.80

>ENSRNOG00000009207 hs-mir-7 2336 2343  
UGGAAGACUAGUGAUUUUGUU&UGGCCAAACCCUGAGCCACUGUGAAUUUGCUGGUGGUCUCCAA

(((((((((((((..((..(&.....))..))..))..))..))..))..))..)).. -21.00  
>ENSRNOG0000009207 hs-mir-7 2802 2809  
UGGAAGACUAGUGAUUUUGUU&AAUGUUGAGAGACUUUAAAAAAAAUAAUAAUAAAGUGUCUCCAU  
((((((((((.....(((((((&.....))..))..))..))..))..))..)).. -17.80

miRNA: mir-7  
Human predicted target: ENSG00000185185  
Mouse predicted target: ENSMUSG00000051510  
Rat predicted target: ENSRNOG0000007245  
Hs Gene description: TRANSCRIPTION FACTOR MAFG (V-MAF MUSCULOAPONEUROTIC  
FIBROSARCOMA ONCOGENE HOMOLOG G) (HMAF). [Source:SWISSPROT;Acc:O15525]

NM\_002359  
mir-7 ENSG00000185185 3037 nt UTR 2 hits 1607 1911

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

>ENSG00000185185 hs-mir-7 1607 1614  
UGGAAGACUAGUGAUUUUGUU&GUGGCCACAGGGCUAUGGCCAAGCGUUCCCUGGCCGUCUCCU  
.(((((((((((((..((..(&.....))..))..))..))..))..))..)).. -17.40

>ENSG00000185185 hs-mir-7 1911 1918  
UGGAAGACUAGUGAUUUUGUU&UUCGGGCCUGCCUUCUGCCUCCCUUUGGGAUCUGUGUCUCCAG  
((((((((((.....(((((((&.....))..))..))..))..))..))..)).. -21.10

mir-7 ENSMUSG00000051510 2329 nt UTR 2 hits 1501 1808

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

>ENSMUSG00000051510 hs-mir-7 1501 1508  
UGGAAGACUAGUGAUUUUGUU&GUGCCACAGGGCUGUGGCCUACCUGUCCUUGGCCGUCUCCU  
.(((((((((((((..((..(&.....))..))..))..))..))..))..)).. -15.70

>ENSMUSG00000051510 hs-mir-7 1808 1815  
UGGAAGACUAGUGAUUUUGUU&CUCUGGGCCUCACUCUGCCUCCUUCAGGAUCUGCGUCUCCAG  
((((((((((.....(((((((&.....))..))..))..))..))..))..)).. -22.40

mir-7 ENSRNOG0000007245 2709 nt UTR 2 hits 1397 1711

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

>ENSRNOG0000007245 hs-mir-7 1397 1404  
UGGAAGACUAGUGAUUUUGUU&GUGCCACAGGGCUGUGCCUACCUGUCCUCCGCGUCUCCU  
.(((((((((((((..((..(&.....))..))..))..))..))..))..)).. -15.80

>ENSRNOG0000007245 hs-mir-7 1711 1718  
UGGAAGACUAGUGAUUUUGUU&GCUCUGGGCCUUAUCUGCCUCCUUCAGGAUCUGCGUCUCCAG  
((((((((((.....(((((((&.....))..))..))..))..))..))..)).. -22.40

miRNA: mir-9  
Human predicted target: ENSG0000087997  
Mouse predicted target: ENSMUSG00000020700  
Rat predicted target: ENSRNOG0000008441

Hs Gene description: MITOGEN-ACTIVATED PROTEIN KINASE KINASE KINASE 3 (EC 2.7.1.-) (MAPK/ERK KINASE KINASE 3) (MEK KINASE 3) (MEKK 3).

[Source:SWISSPROT;Acc:Q99759] NM\_002401

mir-9 ENSG00000087997 3329 nt UTR 2 hits 560 1804

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

>ENSG00000087997 hs-mir-9 560 567  
UCUUUGGUUAUCUAGCUGUAUGA&AGAGUCCCAGGUUGGCUCUGCCAGUCCUGUCCUUUACCAAAGAU  
(((((((...(((((...(((&.....))..)))...))....)))...)). -  
15.90

>ENSG00000087997 hs-mir-9 1804 1811  
UCUUUGGUUAUCUAGCUGUAUGA&GCCCUUGCCCAGGGUGGGCCUGGCCCUCAUCUUGACCAAAGC  
(((((((...(((((...((...&.....))..)))...))....)))...)). -19.10

mir-9 ENSMUSG00000020700 3238 nt UTR 2 hits 543 1730

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

>ENSMUSG00000020700 hs-mir-9 543 550  
UCUUUGGUUAUCUAGCUGUAUGA&UAUAGCUUCCAGGUUAUUCGGUGUCAGUCCUGUCUUACCAAAGAU  
(((((((...(((((...((...&.....))..)))...))....)))...)). -  
20.85

>ENSMUSG00000020700 hs-mir-9 1730 1737  
UCUUUGGUUAUCUAGCUGUAUGA&CCUUUGCCCAAAGUAGGGACUGGCCCCUCUUCUAGACCAAAGC  
(((((((...(((((...((...&.....))..)))...))....)))...)). -17.32

mir-9 ENSRNOG00000008441 3083 nt UTR 3 hits 533 1709 2048

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

>ENSRNOG00000008441 hs-mir-9 533 540  
UCUUUGGUUAUCUAGCUGUAUGA&CUAAGCUUCCAGGUUAUGCUGUGUCAGUCCUGUCUUACCAAAGAU  
(((((((...(((((...((...&.....))..)))...))....)))...)). -  
17.90

>ENSRNOG00000008441 hs-mir-9 1709 1716  
UCUUUGGUUAUCUAGCUGUAUGA&CUUUGCCCAAAGUAGGGACUGGCCCCUCUUCUAGACCAAAGC  
(((((((...(((((...((...&.....))..)))...))....)))...)). -17.24

>ENSRNOG00000008441 hs-mir-9 2048 2055  
UCUUUGGUUAUCUAGCUGUAUGA&AAAAACUGUGGACAUGCUGGUUCAGCAUCCUCAGGACCAAAGC  
(((((((...(((((...((....&.....))..)))...))....)))...)). -20.19

miRNA: mir-9

Human predicted target: ENSG00000108604

Mouse predicted target: ENSMUSG00000020710

Rat predicted target: ENSRNOG00000010557

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-9 ENSG00000108604 2854 nt UTR 2 hits 294 413

```

-----1-----1-----
-----
>ENSG00000108604 hs-mir-9      294      301
UCUUUGGUUAUCUAGCUGUAUGA&GGAGGCUGUGCUUUGACAUUGUAAGACAUUCCGAACCAAAGGC
((((((((((...((((((.....&....)))))).....)))))))). -
16.05
>ENSG00000108604 hs-mir-9      413      420
UCUUUGGUUAUCUAGCUGUAUGA&GGAGGUGCAGCCCAGACUCUCCUAGCCUUCUAAACCAAAGU
.((((((((((...((((((.....&....)))))).....)))))))). -20.61
mir-9      ENSMUSG00000020710  2879 nt UTR      3 hits 317 432 2504
-----1-----1-----
-----1-----
>ENSMUSG00000020710 hs-mir-9    317      324
UCUUUGGUUAUCUAGCUGUAUGA&AGGCUGUGCUUUAACUUGUACCAGACAUUCCAAACCAAAGGC
((((((((((...((((((...(&.....)))))).....)))))))). -
15.96
>ENSMUSG00000020710 hs-mir-9    432      439
UCUUUGGUUAUCUAGCUGUAUGA&GAAGAGAAGGCCCUAGACUCUCCUGGCCUUCUAAACCAAAGU
.((((((((((...((((((.....&.....)))))).....)))))))). -16.59
>ENSMUSG00000020710 hs-mir-9    2504     2511
UCUUUGGUUAUCUAGCUGUAUGA&UUGAGUCUGGCACCUUCUCCACCAUCAUAGUGACACCAAAGGG
((((((((((...((((((...(&.....)))))).....)))))))). -
17.60
mir-9      ENSRNOG00000010557  2889 nt UTR      3 hits 309 429 2495
-----1-----1-----
-----1-----
>ENSRNOG00000010557 hs-mir-9    309      316
UCUUUGGUUAUCUAGCUGUAUGA&GGCUGUGCUUUUAACUUGUAAACAGACAUUCCGAACCAAAGGC
((((((((((...((((((...&.....)))))).....)))))))). -
17.86
>ENSRNOG00000010557 hs-mir-9    429      436
UCUUUGGUUAUCUAGCUGUAUGA&GGAGGCCAGCCCAGACUCUCCUGGCCUUCUAAACCAAAGU
.((((((((((...((((((.....&.....)))))).....)))))))). -16.01
>ENSRNOG00000010557 hs-mir-9    2495     2502
UCUUUGGUUAUCUAGCUGUAUGA&UUGAGUCUGGCACCUUUUCCACCAUCAUAGUGAUACCAAAGGG
((((((((((...((((((...(&.....)))))).....)))))))). -
19.50

```

miRNA: mir-9

Human predicted target: ENSG00000109654

Mouse predicted target: ENSMUSG00000027993

Rat predicted target: ENSRNOG00000010124

Hs Gene description: TRIPARTITE MOTIF PROTEIN 2.

[Source:SWISSPROT;Acc:Q9C040] NM\_015271

mir-9 ENSG00000109654 6356 nt UTR 2 hits 977 1026

```

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

```



```

-----
-----
>ENSG00000109654 hs-mir-9      977      984
UCUUUGGUUAUCUAGCUGUAUGA&GCCAUAAAGUAGCCCUUUGGAGGACUGAUGGUGUCAACCAAAGGC
(((((((((((((.(((((((((((.&..))))).))))).))))).))))).))))).))))). -
17.66
>ENSG00000109654 hs-mir-9      1026     1033
UCUUUGGUUAUCUAGCUGUAUGA&AUUGAUUAAUGAUUCCCCUAGAAAGCAAGUGUUACCAAAGU
.(((((((((((((.(((((((((((.&..))))).))))).))))).))))).))))).))))). -17.40
mir-9      ENSMUSG00000027993  6626 nt UTR      2 hits 935 984
-----1-1-----
-----

```

```

-----
>ENSMUSG00000027993 hs-mir-9      935      942
UCUUUGGUUAUCUAGCUGUAUGA&GCCAUAAAGCAGCCCUUUGGAGGAUGGAUGGUGUCAACCAAAGGC
(((((((((((((.(((((((((((.&..))))).))))).))))).))))).))))).))))). -
20.20
>ENSMUSG00000027993 hs-mir-9      984      991
UCUUUGGUUAUCUAGCUGUAUGA&AUUGAUUCAUGAUUCCCCUAGAGAGCAAGUGUUACCAAAGU
.(((((((((((((.(((((((((((.&..))))).))))).))))).))))).))))).))))). -17.30
mir-9      ENSRNOG00000010124  3924 nt UTR      3 hits 1511 1559 3056
-----1-1-----
-----1-----

```

```

-----
>ENSRNOG00000010124 hs-mir-9      1511     1518
UCUUUGGUUAUCUAGCUGUAUGA&GCCUAAACAGCCCUUAGGAGGACGGACGGUGUCAACCAAAGGC
(((((((((((((.(((((((((((.&..))))).))))).))))).))))).))))).))))). -
19.80
>ENSRNOG00000010124 hs-mir-9      1559     1566
UCUUUGGUUAUCUAGCUGUAUGA&GAUUGAGUCAGAUUCCCCUAGAGAGCAAGUGUUACCAAAGU
.(((((((((((((.(((((((((((.&..))))).))))).))))).))))).))))).))))). -17.30
>ENSRNOG00000010124 hs-mir-9      3056     3063
UCUUUGGUUAUCUAGCUGUAUGA&CUAGUGGAGCCAGUGGAGUCUCCUCUCCGGUCUUACCAAAGAA
(((((((((((((.(((((((((((.&..))))).))))).))))).))))).))))).))))). -
18.61

```

```

miRNA: mir-9
Human predicted target: ENSG00000113742
Mouse predicted target: ENSMUSG00000020300
Rat predicted target: ENSRNOG00000020689
mir-9      ENSG00000113742      6172 nt UTR      3 hits 839 1615 4606
-----1-----1-----
-----1-----

```

```

-----
>ENSG00000113742 hs-mir-9      839      846

```

UCUUUGGUUAUCUAGCUGUAUGA&UAACUUACUUAUCUGGUCAAAGCCCCAGGAAACCUACCAAAGC  
(((((((((((((.....)))))).....))))). -14.80

>ENSG00000113742 hs-mir-9 1615 1622

UCUUUGGUUAUCUAGCUGUAUGA&GCGCUACCUAACAGUACCAUCUUGGAUCCUCAAACCAAAGAC  
(((((((((((((.....&.....)))))).....))))). -  
19.62

>ENSG00000113742 hs-mir-9 4606 4613

UCUUUGGUUAUCUAGCUGUAUGA&UUUGUCAUGAAUAGUCUUGAUUUGUGGCCACACUACCAAAGGG  
((((((((((.....((.....&.....)))))).....))))). -  
18.40

mir-9 ENSMUSG00000020300 2665 nt UTR 2 hits 785 1545

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

>ENSMUSG00000020300 hs-mir-9 785 792

UCUUUGGUUAUCUAGCUGUAUGA&UUAACUGACUUCUAAUCACGGCCCCAGGAAACCUACCAAAGC  
(((((((((((((.....&.....)))))).....))))). -17.70

>ENSMUSG00000020300 hs-mir-9 1545 1552

UCUUUGGUUAUCUAGCUGUAUGA&GUGCUGCCUAAACAGUACCAUCUUGGAUCCUUCAGAACCAAAGAC  
(((((((((((((.....&.....)))))).....))))). -  
19.62

mir-9 ENSRNOG00000020689 2667 nt UTR 2 hits 787 1547

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

>ENSRNOG00000020689 hs-mir-9 787 794

UCUUUGGUUAUCUAGCUGUAUGA&UUAACUGACUUCUAAUCACAGCCCCAGGAAACCUACCAAAGC  
(((((((((((((.....&.....)))))).....))))). -18.40

>ENSRNOG00000020689 hs-mir-9 1547 1554

UCUUUGGUUAUCUAGCUGUAUGA&GUGCUGCCUAAACAGUACCAUCCUGGAUCCUUCAGAACCAAAGAC  
(((((((((((((.....&.....)))))).....))))). -  
20.31

miRNA: mir-9

Human predicted target: ENSG00000119547

Mouse predicted target: ENSMUSG00000045991

Rat predicted target: ENSRNOG00000018299

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&UUGAGACUGACUUUUUAUGAAUACUAGUCGAAACCAAAGAA
((((((((((.....((.....&.....)))))))).)))). -
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&UUGAGACUGACUUUGUAUGAAUUGCUUAAUUGAAACCAAAGAA
((((((((((.....((.....&.....)))))))).)))). -
18.50
mir-9 ENSRNOG00000018299 2000 nt UTR 3 hits 1294 1318 1702
-----11-----1-----
-----
>ENSRNOG00000018299 hs-mir-9 1294 1301
UCUUUGGUUAUCUAGCUGUAUGA&AAAACAGCCGACGGAUUCUGGAGAGAACACAGCACACCAAAGAA
((((((((((.....((.....&.....)))))))).)))). -
19.50
>ENSRNOG00000018299 hs-mir-9 1318 1325
UCUUUGGUUAUCUAGCUGUAUGA&GAACACAGCACACCAAAGAAGCAGAAUUCUGCAAACCAAAGAU
((((((((((.....((.....&.....)))))))).)))). -
17.81
>ENSRNOG00000018299 hs-mir-9 1702 1709
UCUUUGGUUAUCUAGCUGUAUGA&UUGAGACUGACUUUGUAUGAAUACUUAUUGAAACCAAAGAA
((((((((((.....((.....&.....)))))))).)))). -
16.70

```

```

miRNA: mir-9
Human predicted target: ENSG00000136867
Mouse predicted target: ENSMUSG00000000464
Rat predicted target: ENSRNOG00000013631
Hs Gene description: PROBABLE LOW-AFFINITY COPPER UPTAKE PROTEIN 2 (HCTR2)
(COPPER TRANSPORTER 2). [Source:SWISSPROT;Acc:O15432] NM_001860

```

mir-9 ENSG00000136867 3223 nt UTR 2 hits 242 1030  
-----1-----1-----

>ENSG00000136867 hs-mir-9 242 249  
UCUUUGGUUAUCUAGCUGUAUGA&CAGGCAUGGUCUUGUGUCUUAAGACAGCUGCUGUGACCAAAGGG  
(((((((((((((.(((((((.....&.....))))))))).)))))))). -  
26.80

>ENSG00000136867 hs-mir-9 1030 1037  
UCUUUGGUUAUCUAGCUGUAUGA&AGCCAUGGGCAGGUACUGACUGAAGAUGCAAUCCAACCAAAGC  
.((((((((((((.(((((((.....&.....))))))))).)))))))). -17.35

mir-9 ENSMUSG00000000464 3268 nt UTR 2 hits 234 907  
-----1-----1-----

>ENSMUSG00000000464 hs-mir-9 234 241  
UCUUUGGUUAUCUAGCUGUAUGA&CCAGGCUCUGUGGUGCCUUAAGCAAGUAGCUGUGACCAAAGGG  
(((((((((((.(((((((.....&.....))))))))).)))))))). -  
23.90

>ENSMUSG00000000464 hs-mir-9 907 914  
UCUUUGGUUAUCUAGCUGUAUGA&GGCUGGGUACUGACUGAGGGUGCAAUAGCAAUCAAACCAAAGC  
.((((((((((((.(((((((.....&.....))))))))).)))))))). -19.76

mir-9 ENSRNOG00000013631 3209 nt UTR 2 hits 222 876  
-----1-----1-----

>ENSRNOG00000013631 hs-mir-9 222 229  
UCUUUGGUUAUCUAGCUGUAUGA&CAGGCCUCUGUGGUUCCUUAACAAGUCGCUGUGACCAAAGGG  
(((((((((((.(((((((.....&.....))))))))).)))))))). -  
19.40

>ENSRNOG00000013631 hs-mir-9 876 883  
UCUUUGGUUAUCUAGCUGUAUGA&GGCUGGGUACUGACUGGGGUGCAAUAAUAGUCAAAACCAAAGC  
.((((((((((((.(((((((.....&.....))))))))).)))))))). -19.76

miRNA: mir-9

Human predicted target: ENSG00000156398

Mouse predicted target: ENSMUSG00000025036

Rat predicted target: ENSRNOG00000020011

Hs Gene description: SIDEROFLEXIN 2. [Source:SWISSPROT;Acc:Q96NB2]

mir-9 ENSG00000156398 3432 nt UTR 2 hits 1135 1211  
-----1-----1-----

>ENSG00000156398 hs-mir-9 1135 1142  
UCUUUGGUUAUCUAGCUGUAUGA&UGGCUGCCUCCUUCUCCUAGCCCAUUAAGGUUAACACCAAAGAA  
(((((((((((.(((((((.....&.....))))))))).)))))))). -  
19.80

>ENSG00000156398 hs-mir-9 1211 1218  
UCUUUGGUUAUCUAGCUGUAUGA&UUUAUUUGGAACCUUCUAAGAGGAAAUCAACCAGGACCAAAGAG  
(((((((((((.(((((((.....&.....))))))))).)))))))). -  
17.60

```

mir-9      ENSMUSG00000025036  2528 nt UTR      2 hits 1419 1858
-----1-----
1-----
>ENSMUSG00000025036 hs-mir-9   1419   1426
UCUUUGGUUAUCUAGCUGUAUGA&CAAUAGUUCUUUCCUUGGCCCAUUAGGUCUCAUACCAAAGAG
(((((((((((((.....)))))).....)))))).....))))). -
17.82
>ENSMUSG00000025036 hs-mir-9   1858   1865
UCUUUGGUUAUCUAGCUGUAUGA&UGCUGCCUUCUCCUCUGCCUGUUAGGUCACAUACCAAAGAU
(((((((((((((.....)))))).....)))))).....))))). -
21.20
mir-9      ENSRNOG00000020011  2000 nt UTR      3 hits 1251 1537 1749
-----1-----1-----1-----
-----
>ENSRNOG00000020011 hs-mir-9   1251   1258
UCUUUGGUUAUCUAGCUGUAUGA&CAAUGAGUUCUUUCCUCAGCCCACUGGGUCUCACACCAAAGAG
(((((((((((((.....)))))).....)))))).....))))). -
19.60
>ENSRNOG00000020011 hs-mir-9   1537   1544
UCUUUGGUUAUCUAGCUGUAUGA&AAACAGGAAAAAUGUACAGUCAAACAGUCAUUUUACCAAAGU
(((((((((((((.....)))))).....)))))).....))))). -20.20
>ENSRNOG00000020011 hs-mir-9   1749   1756
UCUUUGGUUAUCUAGCUGUAUGA&CUGCUGGCUUCCUCCUCAGCCUUUAGGUCACACACCAAAGAG
(((((((((((((.....)))))).....)))))).....))))). -
19.70

```

```

miRNA: mir-9
Human predicted target: ENSG00000157978
Mouse predicted target: ENSMUSG00000037295
Rat predicted target: ENSRNOG00000000151
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&GCCAGCCGGACACAAGCGGCCCUAGACACGUGAUGGACCAAAGC
(((((((((((((.....)))))).....)))))).....))))). -20.40
>ENSG00000157978 hs-mir-9   355    362
UCUUUGGUUAUCUAGCUGUAUGA&CAAGCUCUGCCUUGGCUUGGGUAUCAGGACUGUGACCAAAGC
(((((((((((((.....)))))).....)))))).....))))). -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&CAGUGCCCCCUCCUGCUGUGGGCGUCAGGACAAUGACCAAAGC  
((((((((((...((((((...&.....))))))....))))))....)))))))). -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&GAGGGGUGGAGUUGAGAACAGAACCAGAUUCUGAUACCAAAGC  
((((((((((...((((((...&.....))))))....))))))....)))))))). -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&CUGAGAAGCUGAGGCUUUCAAAGAGGCAGCCCUGACCAAAGAC  
((((((((((...((((((...&.....))))))....))))))....)))))))). -  
22.80

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

miRNA: mir-9  
Human predicted target: ENSG00000169856  
Mouse predicted target: ENSMUSG00000043013  
Rat predicted target: ENSRNOG00000008095  
Hs Gene description: HEPATOCYTE NUCLEAR FACTOR 6 (HNF-6) (ONE CUT DOMAIN  
FAMILY MEMBER 1). [Source:SWISSPROT;Acc:Q9UBC0] NM\_004498  
mir-9 ENSG00000169856 2566 nt UTR 3 hits 138 689 745  
-----1-----1-1-----

>ENSG00000169856 hs-mir-9 138 145  
UCUUUGGUUAUCUAGCUGUAUGA&UGAAGAAAAAAGCGUUAUUUAUAGUCCAAAGAAACCAAAGAC  
((((((((((...((((((...&.....))))))....))))))....)))))))). -  
20.30

>ENSG00000169856 hs-mir-9 689 696

UCUUUGGUUAUCUAGCUGUAUGA&ACAUGAGUCCAUCUUAUAAAAAAAAUCACCUAGGUACCAAAGAA  
 ((((((((((.(.((((((.(.....&.....)).)))))))))))). -  
 21.80  
 >ENSG00000169856 hs-mir-9 745 752  
 UCUUUGGUUAUCUAGCUGUAUGA&UAUAGUGCAGGUUUUUUAUUGCAAUGAUUUUAAUAACCAAAGC  
 .(((((((((((.(.((((((.(.....&.....)).)))))))))))). -19.55  
 mir-9 ENSMUSG00000043013 2052 nt UTR 3 hits 149 754 808  
 -----1-----1-1-----

>ENSMUSG00000043013 hs-mir-9 149 156  
 UCUUUGGUUAUCUAGCUGUAUGA&UGAAGAAAAACAAGUGGUUUUUUAUAGUCCAAGAAACCAAAGAC  
 ((((((((((.(.((((((.(.....&.....)).)))))))))))). -  
 20.30  
 >ENSMUSG00000043013 hs-mir-9 754 761  
 UCUUUGGUUAUCUAGCUGUAUGA&AAACGAGUCCAUCUUAUAAAAAAAAUCACCUAGGUACCAAAGAA  
 ((((((((((.(.((((((.(.....&.....)).)))))))))))). -  
 21.80  
 >ENSMUSG00000043013 hs-mir-9 808 815  
 UCUUUGGUUAUCUAGCUGUAUGA&UAUAGUGCAGGUUUUUUAUUGCAAUGAUUUUAAUAACCAAAGC  
 .(((((((((((.(.((((((.(.....&.....)).)))))))))))). -19.55  
 mir-9 ENSRNOG00000008095 2059 nt UTR 3 hits 145 742 793  
 -----1-----1-1-----

>ENSRNOG00000008095 hs-mir-9 145 152  
 UCUUUGGUUAUCUAGCUGUAUGA&UGAAGGAAAACAAGUGGUUUUUUAUAGUCCAAGAAACCAAAGAC  
 ((((((((((.(.((((((.(.....&.....)).)))))))))))). -  
 20.30  
 >ENSRNOG00000008095 hs-mir-9 742 749  
 UCUUUGGUUAUCUAGCUGUAUGA&UCCAUCUUAUAAAAAAAAAAGAAUCACCUAGGUACCAAAGAC  
 ((((((((((.(.((((((.(.....&.....)).)))))))))))). -  
 21.50  
 >ENSRNOG00000008095 hs-mir-9 793 800  
 UCUUUGGUUAUCUAGCUGUAUGA&UAUAGUACAGGUUUUUUAUUGCAAUGAUUUUAAUAACCAAAGC  
 .(((((((((((.(.((((((.(.....&.....)).)))))))))))). -19.55

miRNA: mir-10a  
 Human predicted target: ENSG00000090615  
 Mouse predicted target: ENSMUSG00000029502  
 Rat predicted target: ENSRNOG00000000687  
 Hs Gene description: GOLGIN-160 (FRAGMENT). [Source:SWISSPROT;Acc:Q08378]  
 NM\_005895  
 mir-10a ENSG00000090615 2000 nt UTR 2 hits 248 1885  
 -----1-----1-1-----

>ENSG00000090615 hs-mir-10a 248 255  
 UACCCUGUAGAUCGAAUUUGUG&CAGGGAGAGGCUGCGUAACUGGGAGCAGCUGUGUGACAGGGUC  
 .(((((((((((.(.((((((.(.....&.....)).)))))))))))). -18.00

>ENSG00000090615 hs-mir-10a 1885 1892  
UACCCUGUAGAUCGAAUUUGUG&AGCAAUAUUGGAAUUUCCAAAAUAUAUCAUUUGUACAGGGUU  
.(((((((((((((.((((((((((((((.&)))))))).)))))).....)))))))). -23.60  
mir-10a ENSMUSG00000029502 2000 nt UTR 2 hits 1207 1795

-----1-----1--  
-----  
>ENSMUSG00000029502 hs-mir-10a 1207 1214  
UACCCUGUAGAUCGAAUUUGUG&ACCUGAAAGGAGGUGGGCAACUUUGGUCUUCUGAGACAGGGUC  
.(((((((((((((.((((((((((((((.&.....)))))))).)))))).....)))))))). -24.60  
>ENSMUSG00000029502 hs-mir-10a 1795 1802  
UACCCUGUAGAUCGAAUUUGUG&AAGUAUUGGAACUUUAAGAUGUGUAUAUCAUUUGUACAGGGUU  
.(((((((((((((.((((((((((((((.&.....)))))))).)))))).....)))))))). -18.94  
mir-10a ENSRNOG00000000687 2000 nt UTR 2 hits 1178 1751

-----1-----1--  
-----  
>ENSRNOG00000000687 hs-mir-10a 1178 1185  
UACCCUGUAGAUCGAAUUUGUG&ACCUGGAAGAAGGUAGGCAACUUUGGUUUUCUGAGACAGGGUU  
.(((((((((((((.((((((((((((((.&.....)))))))).)))))).....)))))))). -24.60  
>ENSRNOG00000000687 hs-mir-10a 1751 1758  
UACCCUGUAGAUCGAAUUUGUG&AAGUAUUGGACUUUAAGUGUGUAUAUCACUUGUACAGGGUU  
.(((((((((((((.((((((((((((((.&.....)))))))).)))))).....)))))))). -18.49

-----  
miRNA: mir-10a  
Human predicted target: ENSG00000099882  
Mouse predicted target: ENSMUSG00000022623  
Rat predicted target: ENSRNOG00000013337  
Hs Gene description: SH3 AND MULTIPLE ANKYRIN REPEAT DOMAINS PROTEIN 3  
(SHANK3) (PROLINE RICH SYNAPSE-ASSOCIATED PROTEIN 2) (PROSAP2) (FRAGMENT).  
[Source:SWISSPROT;Acc:Q9BYB0]  
mir-10a ENSG00000099882 3898 nt UTR 2 hits 814 1712

-----1-----1-----1-----  
-----  
>ENSG00000099882 hs-mir-10a 814 821  
UACCCUGUAGAUCGAAUUUGUG&CAGGGCCCUGCCGCUCCACCGCAGCCAUCUCCUCACAGGGUC  
.(((((((((((((.((((((((((((((.&.....)))))))).)))))).....)))))))). -17.90  
>ENSG00000099882 hs-mir-10a 1712 1719  
UACCCUGUAGAUCGAAUUUGUG&GGUUUUGGUUCCGUUCAAUUUGGUUUUUAACUUUACAGGGUC  
.(((((((((((((.((((((((((((((.&.....)))))))).)))))).....)))))))). -22.80  
mir-10a ENSMUSG00000022623 2000 nt UTR 3 hits 795 1054 1744

-----1-----1-----1-----  
-----  
>ENSMUSG00000022623 hs-mir-10a 795 802  
UACCCUGUAGAUCGAAUUUGUG&GGGCCCCGGUAACCCAAACCCAGCCAUCAUCUCCUCACAGGGUC  
.(((((((((((((.((((((((((((((.&.....)))))))).)))))).....)))))))). -17.75  
>ENSMUSG00000022623 hs-mir-10a 1054 1061  
UACCCUGUAGAUCGAAUUUGUG&UUCUGGAUGGGUGGGAGGUGGCGGCAGAAGCUUGCACAGGGUGC



(((((.....(((((.&.....))))))..)))). -  
19.30

>ENSMUSG00000022623 hs-mir-10a 1744 1751  
UACCCUGUAGAUCGAAUUUGUG&GUUUUUGGUUCUGUUCAAUUUGGUUUUUAACUUUACAGGGUC  
.((((((((((((((((.....&.....)))))))).)))). -22.80  
mir-10a ENSRNOG00000013337 2000 nt UTR 2 hits 796 1736  
-----1-----1-----  
-----

>ENSRNOG00000013337 hs-mir-10a 796 803  
UACCCUGUAGAUCGAAUUUGUG&UGGGCCCCGUAACCCAACCCAGCCAUCAUCUUCACAGGGUC  
.((((((((((((((((.....&.....)))))))).)))). -17.80

>ENSRNOG00000013337 hs-mir-10a 1736 1743  
UACCCUGUAGAUCGAAUUUGUG&GUUUUUGGUUCUGUUCAGUUUGGUUUUUAACUUUACAGGGUC  
.((((((((((((((((.....&.....)))))))).)))). -22.80

miRNA: mir-10a  
Human predicted target: ENSG00000121255  
Mouse predicted target: ENSMUSG00000041245  
Rat predicted target: ENSRNOG00000002634

mir-10a ENSG00000121255 3902 nt UTR 2 hits 1267 1581  
-----1-----1-----  
-----

>ENSG00000121255 hs-mir-10a 1267 1274  
UACCCUGUAGAUCGAAUUUGUG&UAGGUUUCGAGACUUACAUAUGAAACACUGGCUUUACAGGGUU  
.((((((((((((((((.....(((&.....)))))))).)))). -22.10

>ENSG00000121255 hs-mir-10a 1581 1588  
UACCCUGUAGAUCGAAUUUGUG&AAGAAGGUUAACUAUAAUAAUGUUAAGGCUAGUCACAGGGUU  
.((((((((((((((((.....((.&.....)))))))).)))). -19.10  
mir-10a ENSMUSG00000041245 2000 nt UTR 2 hits 969 1282  
-----1-----1-----  
-----

>ENSMUSG00000041245 hs-mir-10a 969 976  
UACCCUGUAGAUCGAAUUUGUG&UAGCUUUUGAGACUUUUGCAUAAAACACUGGCUUUACAGGGUU  
.((((((((((((((((.....((.&.....)))))))).)))). -23.90

>ENSMUSG00000041245 hs-mir-10a 1282 1289  
UACCCUGUAGAUCGAAUUUGUG&AGGGAGGUUAACUUUAGUAAUCUUAAGCGCUAGUCACAGGGUU  
.((((((((((((((((.....((.&.....)))))))).)))). -17.80  
mir-10a ENSRNOG00000002634 2000 nt UTR 2 hits 976 1287  
-----1-----1-----  
-----

>ENSRNOG00000002634 hs-mir-10a 976 983  
UACCCUGUAGAUCGAAUUUGUG&UAGCUUUUGAGACUUUUGCAUAAAACACUGGCUUUACAGGGUU  
.((((((((((((((((.....((.&.....)))))))).)))). -23.90

>ENSRNOG00000002634 hs-mir-10a 1287 1294  
UACCCUGUAGAUCGAAUUUGUG&GGAAGCUUAACUGUAGUAAUCUUAACGUGCUAGUCACAGGGUC  
.((((((((((((((((.....((.&.....)))))))).)))). -17.90

miRNA: mir-10a

Human predicted target: ENSG00000168268

Mouse predicted target: ENSMUSG00000042307

Rat predicted target: ENSRNOG00000018358

Hs Gene description: NM\_022908

mir-10a ENSG00000168268 2083 nt UTR 3 hits 291 867 1637

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

>ENSG00000168268 hs-mir-10a 291 298  
UACCCUGUAGAUC CGAAUUUGUG & CAUCGAAGGGUUCACAAAAGGUGUCGCGCCAAAGACAGGGUU  
.(((((((((((((.....(((((&.....)))))))).)))).).....)))))))). -21.70

>ENSG00000168268 hs-mir-10a 867 874  
UACCCUGUAGAUC CGAAUUUGUG & AGAGUCAGGCCACUGUGAGCGAGGGCCAGGGCCAACAGGGUGG  
(((((((((((((.....(((((&.....)))))))).).....)))))))). -  
24.80

>ENSG00000168268 hs-mir-10a 1637 1644  
UACCCUGUAGAUC CGAAUUUGUG & CCCGACCAUUGCCACAGUCCGCCACAGGGAAAACACAGGGUGG  
(((((((((((((.....(((((&.....)))))))).).....)))))))). -  
20.90

mir-10a ENSMUSG00000042307 2000 nt UTR 2 hits 292 1620

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

>ENSMUSG00000042307 hs-mir-10a 292 299  
UACCCUGUAGAUC CGAAUUUGUG & CAAAGGGUUCACAAAAGAUGUCACUGCGCCAAAACAGGGUU  
.(((((((((((((.....(((((&.....)))))))).)))).).....)))))))). -16.93

>ENSMUSG00000042307 hs-mir-10a 1620 1627  
UACCCUGUAGAUC CGAAUUUGUG & CACGAUUAUUAUACCACAGUCUGCCGCGGGGUGACGACAGGGUGG  
(((((((((((((.....(((((&.....)))))))).).....)))))))). -  
21.50

mir-10a ENSRNOG00000018358 2064 nt UTR 2 hits 511 1838

-----1-----

>ENSRNOG00000018358 hs-mir-10a 511 518  
UACCCUGUAGAUC CGAAUUUGUG & CAAAGGGUUCACAAAAGAUGUCGCGCCAAAACAGGGUU  
.(((((((((((((.....(((((&.....)))))))).).....)))))))). -19.41

>ENSRNOG00000018358 hs-mir-10a 1838 1845  
UACCCUGUAGAUC CGAAUUUGUG & CACGAUUAUUAUACCACAGUCUGCCGCCGGGUGACCACAGGGUGG  
(((((((((((((.....(((((&.....)))))))).).....)))))))). -  
21.90

miRNA: mir-10a

Human predicted target: ENSG00000172354

Mouse predicted target: ENSMUSG00000029713

Rat predicted target: ENSRNOG00000001409

Hs Gene description: GUANINE NUCLEOTIDE-BINDING PROTEIN G(I)/G(S)/G(T) BETA SUBUNIT 2 (TRANSDUCIN BETA CHAIN 2) (G PROTEIN BETA 2 SUBUNIT).

[Source:SWISSPROT;Acc:P11016] NM\_005273

mir-10a ENSG00000172354 2368 nt UTR 3 hits 778 915 1016

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

>ENSG00000172354 hs-mir-10a 778 785  
UACCCUGUAGAUC CGAAUUGUG&UAUUUACAGGAGCAGGUAAAAGAGAGGGAAGUCACACAGGGUGG  
(((((((((((((.....))))))..)).).....))))). -  
18.83

>ENSG00000172354 hs-mir-10a 915 922  
UACCCUGUAGAUC CGAAUUGUG&GGGCCAGGAAGACCGGGGCCGGGAAGGACAGCAACAGGGUC  
(((((((((((((.....))))))..)).).....))))). -19.69

>ENSG00000172354 hs-mir-10a 1016 1023  
UACCCUGUAGAUC CGAAUUGUG&AUGGGGGUGGGAGAGGGCUCUUUUUAUACUCCUCACAGGGUU  
(((((((((((((.....))))))..)).).....))))). -18.04

mir-10a ENSMUSG00000029713 2374 nt UTR 2 hits 633 847

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

>ENSMUSG00000029713 hs-mir-10a 633 640  
UACCCUGUAGAUC CGAAUUGUG&GGAGUAUUUACAAGAGUGGGUAUUAGGGAAGUCACACAGGGUAG  
(((((((((((((.....))))))..))))). -  
23.09

>ENSMUSG00000029713 hs-mir-10a 847 854  
UACCCUGUAGAUC CGAAUUGUG&GAGGGGAUGGGGUGGGAGAGGCCCCACACUCCUCACAGGGUU  
(((((((((((((.....))))))..))))). -18.60

mir-10a ENSRNOG00000001409 2376 nt UTR 2 hits 639 860

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

>ENSRNOG00000001409 hs-mir-10a 639 646  
UACCCUGUAGAUC CGAAUUGUG&GGAGUAUUUACAAGAGUGGGUAUUAGGGAAGUCACACAGGGUAG  
(((((((((((((.....))))))..))))). -  
23.09

>ENSRNOG00000001409 hs-mir-10a 860 867  
UACCCUGUAGAUC CGAAUUGUG&GAUGGGGUGGGAGAGGGCUCUUUUUAUACUCCUCACAGGGUU  
(((((((((((((.....))))))..))))). -16.80

miRNA: mir-10b

Human predicted target: ENSG00000090615

Mouse predicted target: ENSMUSG00000029502

Rat predicted target: ENSRNOG00000000687

Hs Gene description: GOLGIN-160 (FRAGMENT). [Source:SWISSPROT;Acc:Q08378]  
NM\_005895

mir-10b ENSG00000090615 2000 nt UTR 2 hits 248 1885

-----1-----

-1-----  
>ENSG00000090615 hs-mir-10b 248 255

```

UACCCUGUAGAACCGAAUUUGU&CAGGGAGAGGCUGCGUAACUGGGAGCAGCUGUGUGACAGGGUC
.(((((((...(((...(((&.....)))))))).))))). -17.10
>ENSG00000090615 hs-mir-10b 1885 1892
UACCCUGUAGAACCGAAUUUGU&AGCAAUAUUGGAAUUUCCAAAUAUAUCAUUUGUACAGGGUU
.(((((((...(((...(((&.....)))))))).))))). -21.90
mir-10b ENSMUSG00000029502 2000 nt UTR 2 hits 1207 1795
-----1-----1-----
>ENSMUSG00000029502 hs-mir-10b 1207 1214
UACCCUGUAGAACCGAAUUUGU&ACCUGAAAGGAGGUGGGCAACUUUGUCUUCUGAGACAGGGUC
.(((((((...(((...(((&.....)))))))).))))). -24.30
>ENSMUSG00000029502 hs-mir-10b 1795 1802
UACCCUGUAGAACCGAAUUUGU&AAGUAUUGGAACUUUAAGAUGUGUAUAUCAUUUGUACAGGGUU
.(((((((...(((...(((&.....)))))))).))))). -18.50
mir-10b ENSRNOG00000000687 2000 nt UTR 2 hits 1178 1751
-----1-----1-----
>ENSRNOG00000000687 hs-mir-10b 1178 1185
UACCCUGUAGAACCGAAUUUGU&ACCUGGAAGAAGGUAGGCAACUUUGUUUCUGAGACAGGGUU
.(((((((...(((...(((&.....)))))))).))))). -25.60
>ENSRNOG00000000687 hs-mir-10b 1751 1758
UACCCUGUAGAACCGAAUUUGU&AAGUAUUGGACUUUAAAGUGUGUAUAUCACUUGUACAGGGUU
.(((((((...(((...(((&.....)))))))).))))). -18.50

```

miRNA: mir-10b

Human predicted target: ENSG00000099882  
 Mouse predicted target: ENSMUSG00000022623  
 Rat predicted target: ENSRNOG00000013337  
 Hs Gene description: SH3 AND MULTIPLE ANKYRIN REPEAT DOMAINS PROTEIN 3  
 (SHANK3) (PROLINE RICH SYNAPSE-ASSOCIATED PROTEIN 2) (PROSAP2) (FRAGMENT).  
 [Source:SWISSPROT;Acc:Q9BYB0]

```

mir-10b ENSG00000099882 3898 nt UTR 2 hits 814 1712
-----1-----1-----
>ENSG00000099882 hs-mir-10b 814 821
UACCCUGUAGAACCGAAUUUGU&CAGGGCCCUGCCGCUCCACCGCAGCCAUCUCCUCACAGGGUC
.(((((((...(((...(((&.....)))))))).))))). -17.20
>ENSG00000099882 hs-mir-10b 1712 1719
UACCCUGUAGAACCGAAUUUGU&GGUUUUGGUUCCGUUCAAUUUGGGUUUUUAACUUUACAGGGUC
.(((((((...(((...(((&.....)))))))).))))). -22.51
mir-10b ENSMUSG00000022623 2000 nt UTR 3 hits 795 1054 1744
-----1-----1-----
>ENSMUSG00000022623 hs-mir-10b 795 802
UACCCUGUAGAACCGAAUUUGU&GGGCCCGGUAACCCAAACCCAGCCAUCAUCUUCACAGGGUC
.(((((((...(((...(((&.....)))))))).))))). -18.35

```

>ENSMUSG00000022623 hs-mir-10b 1054 1061  
UACCCUGUAGAACCGAAUUUGU&UUCUGGAUGGGUGGGAGGUGGCGGCAGAAGCUUGCACAGGGUGC  
((((((((((.....(((((&.....))))))..)))))..)))). -18.60  
>ENSMUSG00000022623 hs-mir-10b 1744 1751  
UACCCUGUAGAACCGAAUUUGU&GUUUUUGGUUCUGUUCAAUUUGGGUUUUUAACUUUACAGGGUC  
.(((((((((((((.....&.....))))))..)))))..)))). -22.51  
mir-10b ENSRNOG00000013337 2000 nt UTR 2 hits 796 1736  
-----1-----1-----

>ENSRNOG00000013337 hs-mir-10b 796 803  
UACCCUGUAGAACCGAAUUUGU&UGGGCCCCGGUAACCCAACCCAGCCAUCAUCUUCACAGGGUC  
.(((((((((((((.....&.....))))))..)))))..)))). -18.40  
>ENSRNOG00000013337 hs-mir-10b 1736 1743  
UACCCUGUAGAACCGAAUUUGU&GUUUUUGGUUCUGUUCAGUUUGGGUUUUUAACUUUACAGGGUC  
.(((((((((((((.....&.....))))))..)))))..)))). -21.90

miRNA: mir-10b  
Human predicted target: ENSG00000117682  
Mouse predicted target: ENSMUSG00000012117  
Rat predicted target: ENSRNOG00000014665  
Hs Gene description: DEHYDRODOLICHYL DIPHOSPHATE SYNTHASE.  
[Source:RefSeq;Acc:NM\_024887]

mir-10b ENSG00000117682 2000 nt UTR 2 hits 1603 1887  
-----1-----1-----  
-1-----  
>ENSG00000117682 hs-mir-10b 1603 1610  
UACCCUGUAGAACCGAAUUUGU&UCCACACCUGGCACUCCCUACCAAUCCUGGCACAGGGUU  
.((((((((((.....(((((&.....))))))..)))))..)))). -16.20  
>ENSG00000117682 hs-mir-10b 1887 1894  
UACCCUGUAGAACCGAAUUUGU&CUUUGGCCUGAGGUUCUGUAUUCUGGGAAAGGUACACAGGGUGG  
(((((((((((((.....&.....))))))..)))))..)))). -22.76  
mir-10b ENSMUSG00000012117 3960 nt UTR 2 hits 758 1681  
-----1-----1-----

>ENSMUSG00000012117 hs-mir-10b 758 765  
UACCCUGUAGAACCGAAUUUGU&UCCCGUGAGACCCAACCCCUCCGUGACUACAGACAGGGUGG  
((((((((((.....&.....))))))..)))). -17.10  
>ENSMUSG00000012117 hs-mir-10b 1681 1688  
UACCCUGUAGAACCGAAUUUGU&UCCAGCCCCAGGACCUGUAUUCUGGGAAAGGUGCACAGGGUGG  
((((((((((.....(((((&.....))))))..)))))..)))). -21.30  
mir-10b ENSRNOG00000014665 3790 nt UTR 2 hits 1536 3457  
-----1-----1-----

>ENSRNOG00000014665 hs-mir-10b 1536 1543  
UACCCUGUAGAACCGAAUUUGU&UCCAGCCUGGGGACCUGUAUUCUGGGAAAGGUGCACAGGGUGG

((((((((((...(((.....&.....)))))))). -21.30  
>ENSRNOG00000014665 hs-mir-10b 3457 3464  
UACCCUGUAGAACCGAAUUUGU&UCCAGCCUGGGACCUGUAUUCUGGGAAAGGUGCACAGGGUGG  
((((((((((...(((.....&.....)))))))). -21.30

miRNA: mir-10b

Human predicted target: ENSG00000121255  
Mouse predicted target: ENSMUSG00000041245  
Rat predicted target: ENSRNOG00000002634

mir-10b ENSG00000121255 3902 nt UTR 2 hits 1267 1581

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

>ENSG00000121255 hs-mir-10b 1267 1274  
UACCCUGUAGAACCGAAUUUGU&UAGGUUUUCGAGACUUACAUAUGAAACACUGGCUUUACAGGGUU  
.((((((((((...(((.....&.....)))))))). -22.20

>ENSG00000121255 hs-mir-10b 1581 1588  
UACCCUGUAGAACCGAAUUUGU&AAGAAGGUUAACUAUAAUAUGUUAAGGCUAGUCACAGGGUU  
.((((((((((...(((.....&.....)))))))). -17.70

mir-10b ENSMUSG00000041245 2000 nt UTR 2 hits 969 1282

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

>ENSMUSG00000041245 hs-mir-10b 969 976  
UACCCUGUAGAACCGAAUUUGU&UAGCUUUUGAGACUUUUGCAUAAAACACUGGCUUUACAGGGUU  
.((((((((((...(((.....&.....)))))))). -22.20

>ENSMUSG00000041245 hs-mir-10b 1282 1289  
UACCCUGUAGAACCGAAUUUGU&AGGGAGGUUAACUUUAGUAAUCUUAAGCGCUAGUCACAGGGUU  
.((((((((((...(((.....&.....)))))))). -16.40

mir-10b ENSRNOG00000002634 2000 nt UTR 2 hits 976 1287

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

>ENSRNOG00000002634 hs-mir-10b 976 983  
UACCCUGUAGAACCGAAUUUGU&UAGCUUUUGAGACUUUUGCAUAAAACACUGGCUUUACAGGGUU  
.((((((((((...(((.....&.....)))))))). -22.20

>ENSRNOG00000002634 hs-mir-10b 1287 1294  
UACCCUGUAGAACCGAAUUUGU&GGAAGCUUAACUGUAGUAAUCUUAACGUGCUAGUCACAGGGUC  
.((((((((((...(((.....&.....)))))))). -15.54

miRNA: mir-10b

Human predicted target: ENSG00000159664  
Mouse predicted target: ENSMUSG00000009681  
Rat predicted target: ENSRNOG00000001304

mir-10b ENSG00000159664 2000 nt UTR 2 hits 287 518

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

>ENSG00000159664 hs-mir-10b 287 294

UACCCUGUAGAACCGAAUUUGU&CAGUUCAUCUCUGAGUCCAGGCCUGGCCUCGGAGACAGGGUGA  
((((((((.....((((.....&.....)))))))).)))). -22.40

>ENSG00000159664 hs-mir-10b 518 525

UACCCUGUAGAACCGAAUUUGU&CAUUUCCCUGACUUAGAAACACACUCCACUUAGAACAGGGUU  
((((((((.....&.....)))))))). -15.50

mir-10b ENSMUSG00000009681 2453 nt UTR 2 hits 537 1805

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

>ENSMUSG00000009681 hs-mir-10b 537 544

UACCCUGUAGAACCGAAUUUGU&ACGUUCCCUGACGUAGAAAUCCGCUGUGUGUGACAGGGUC  
((((((((.....(((((((((&.....)))))))).)))).)))). -17.40

>ENSMUSG00000009681 hs-mir-10b 1805 1812

UACCCUGUAGAACCGAAUUUGU&CUGCCUAAGGUAUUGGGCAGGAAACAAAAGACCCUACAGGGUC  
((((((((.....(((((&.....)))))).)))).)))). -20.00

mir-10b ENSRNOG00000001304 2346 nt UTR 2 hits 731 2172

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

>ENSRNOG00000001304 hs-mir-10b 731 738

UACCCUGUAGAACCGAAUUUGU&CUGUCCCUGCGUCAAAAAAUCCGCUGUAGGCCUGACAGGGUC  
((((((((.....(((((((((&.....)))))))).)))).)))). -18.51

>ENSRNOG00000001304 hs-mir-10b 2172 2179

UACCCUGUAGAACCGAAUUUGU&CUAAUUAUGUAUUGGGCAGGAAGCAAAGACCUUACAGGGUC  
((((((((.....(((((&.....)))))).)))).)))). -18.10

miRNA: mir-10b

Human predicted target: ENSG00000168268

Mouse predicted target: ENSMUSG00000042307

Rat predicted target: ENSRNOG00000018358

Hs Gene description: NM\_022908

mir-10b ENSG00000168268 2083 nt UTR 3 hits 291 867 1637

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

>ENSG00000168268 hs-mir-10b 291 298

UACCCUGUAGAACCGAAUUUGU&CAUCGAAGGGUUCACAAAAGGUGUCGCUGCCAAAGACAGGGUU  
((((((((.....((((((((&.....)))))))).)))).)))). -19.50

>ENSG00000168268 hs-mir-10b 867 874

UACCCUGUAGAACCGAAUUUGU&AGAGUCAGGCCACUGUGAGCGAGGGCCAGGGCCAACAGGGUGG  
((((((((.....(((((&.....)))))).)))).)))). -23.30

>ENSG00000168268 hs-mir-10b 1637 1644

UACCCUGUAGAACCGAAUUUGU&CCCGACCAUUGCCACAGUCCGCCACAGGGAAAACACAGGGUGG  
((((((((.....((((((((&.....)))))))).)))).)))). -17.39

mir-10b ENSMUSG00000042307 2000 nt UTR 2 hits 292 1620

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

>ENSMUSG00000042307 hs-mir-10b 292 299

UACCCUGUAGAACCGAAUUUGU&CAAAGGGUUCACAAAAGAUGUCACUGGCUGCCAAAACAGGGUU  
((((((((.....((((((((&.....)))))))).)))).)))). -18.77

>ENSMUSG00000042307 hs-mir-10b 1620 1627  
UACCCUGUAGAACCGAAUUGU&CACGAUUAUUACCACAGUCUGCCGCGUGGGGUGACGACAGGGUGG  
((((((((...(((.....&.....)))))))). -21.80  
mir-10b ENSRNOG00000018358 2064 nt UTR 2 hits 511 1838

-----1-----  
1-----  
>ENSRNOG00000018358 hs-mir-10b 511 518  
UACCCUGUAGAACCGAAUUGU&CAAAGGGUUCACAAAAGAUGUCGCUGCUGCCAAAAACAGGGUU  
((((((((...(((.....&.....)))))))). -18.77  
>ENSRNOG00000018358 hs-mir-10b 1838 1845  
UACCCUGUAGAACCGAAUUGU&CACGAUUAUUACCACAGUCUGCCGCCGGGGUGACCACAGGGUGG  
((((((((...(((.....&.....)))))))). -21.10

miRNA: mir-10b

- Human predicted target: ENSG00000169364
- Mouse predicted target: ENSMUSG00000009681
- Mouse predicted target: ENSMUSG00000044049
- Rat predicted target: ENSRNOG00000001304
- Rat predicted target: ENSRNOG00000001307
- Rat predicted target: ENSRNOG00000001308
- Rat predicted target: ENSRNOG00000001310

Hs Gene description: BREAKPOINT CLUSTER REGION PROTEIN (EC 2.7.1.-).  
[Source:SWISSPROT;Acc:P11274] NM\_012165

mir-10b ENSG00000169364 2428 nt UTR 2 hits 281 510  
-----1-----1-----

>ENSG00000169364 hs-mir-10b 281 288  
UACCCUGUAGAACCGAAUUGU&CAGUUCAUCUCGGAGUCCAGGCCUGGCCUGGGAGACAGGGUGA  
((((((((...(((.....&.....)))))))). -20.40  
>ENSG00000169364 hs-mir-10b 510 517  
UACCCUGUAGAACCGAAUUGU&CAUUUCCUGACUUAGAAACCACACUCCACUUCUACAGGGUU  
((((((((...(((.....&.....)))))))). -18.00  
mir-10b ENSMUSG00000009681 2453 nt UTR 2 hits 537 1805

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

>ENSMUSG00000009681 hs-mir-10b 537 544  
UACCCUGUAGAACCGAAUUGU&ACGUUCCUGACGUAGAAAUCCGCUGUGUGUGACAGGGUC  
((((((((...(((.....&.....)))))))). -17.40  
>ENSMUSG00000009681 hs-mir-10b 1805 1812  
UACCCUGUAGAACCGAAUUGU&CUGCCUAAGGUUAUUGGCAGGAAACAAAAGACCCUACAGGGUC  
((((((((...(((.....&.....)))))))). -20.00  
mir-10b ENSMUSG00000044049 2000 nt UTR 1 hits 1144

-----1-----

>ENSMUSG00000044049 hs-mir-10b 1144 1151  
UACCCUGUAGAACCGAAUUGU&UCAAAAUCUGCCAGGUACCCAGGGAGAUGUUAGUACAGGGUAG  
((((((((...(((.....&.....)))))))). -20.50



```

mir-10b   ENSRNOG00000001304   2346 nt UTR   2 hits 731 2172
-----1-----
-----1-----
>ENSRNOG00000001304 hs-mir-10b   731   738
UACCCUGUAGAACCGAAUUUGU&CUGUCCCUGCGUCAAAAAAUCCGCUGUAGGCCUGACAGGGUC
.((((((((...((((((((&.....)))))).....)).....)).....)).....). -18.51
>ENSRNOG00000001304 hs-mir-10b   2172  2179
UACCCUGUAGAACCGAAUUUGU&CUAAUUAUGUAUUGGGCAGGAAGCAAAGACCUUACAGGGUC
.((((((((...(...((((&.....))))).)).....)).....)).....). -18.10
mir-10b   ENSRNOG00000001307   2000 nt UTR   1 hits 1285
-----1-----
-----
>ENSRNOG00000001307 hs-mir-10b   1285  1292
UACCCUGUAGAACCGAAUUUGU&CAGGAAACUGACAGGUGCCCAGGGGAGACGUUAGUACAGGGUAG
((((((((...(((.&.....)))))).....)).....)).....). -22.66
mir-10b   ENSRNOG00000001308   nt UTR   1 hits 822

>ENSRNOG00000001308 hs-mir-10b   822   829
UACCCUGUAGAACCGAAUUUGU&GCUCUUGCUGCCUCAUUUUCUCGGGUGAGCACUCAACAGGGUC
.((((((((...(((.&.....)))))).....)).....)).....). -19.80
mir-10b   ENSRNOG00000001310   2000 nt UTR   1 hits 1840
-----1-----
1-----
>ENSRNOG00000001310 hs-mir-10b   1840  1847
UACCCUGUAGAACCGAAUUUGU&GCUCUUGCUGCCUCAUUUUCUCGGGUGAGCACUCAACAGGGUC
.((((((((...(((.&.....)))))).....)).....)).....). -19.80

miRNA: mir-10b
Human predicted target: ENSG00000172354
Mouse predicted target: ENSMUSG00000029713
Rat predicted target: ENSRNOG00000001409
Hs Gene description: GUANINE NUCLEOTIDE-BINDING PROTEIN G(I)/G(S)/G(T)
BETA SUBUNIT 2 (TRANSDUCIN BETA CHAIN 2) (G PROTEIN BETA 2 SUBUNIT).
[Source:SWISSPROT;Acc:P11016] NM_005273
mir-10b   ENSG00000172354   2368 nt UTR   3 hits 778 915 1016
-----1---1---1-----
-----
>ENSG00000172354 hs-mir-10b   778   785
UACCCUGUAGAACCGAAUUUGU&UAUUUACAGGAGCAGGUAAAAGAGAGGGAAGUCACACAGGGUGG
((((((((...(((.&.....)))))).....)).....)).....). -19.20
>ENSG00000172354 hs-mir-10b   915   922
UACCCUGUAGAACCGAAUUUGU&GGGCCAGGAAGACCGGGGCCGGGGAAGGACAGCAACAGGGUC
.((((((((...(((.&.....)))))).....)).....)).....). -18.80
>ENSG00000172354 hs-mir-10b   1016  1023
UACCCUGUAGAACCGAAUUUGU&AUGGGGGUGGGAGAGGGCCUCCCCUAUACUCCUCACAGGGUU
.((((((((...(((.&.....)))))).....)).....)).....). -16.55
mir-10b   ENSMUSG00000029713   2374 nt UTR   2 hits 633 847

```

-----1-----1-----  
-----  
>ENSMUSG00000029713 hs-mir-10b 633 640  
UACCCUGUAGAACCGAAUUUGU&GGAGUAUUUACAAGAGUGGGUAUUAGGGAAGUCACACAGGGUAG  
(((((((((((((.....&.....)))))).....))))). -20.62  
>ENSMUSG00000029713 hs-mir-10b 847 854  
UACCCUGUAGAACCGAAUUUGU&GAGGGGAUGGGGUGGGAGAGGCCCCACACUCCUCACAGGGUU  
(((((((((((((.....&.....)))))).....))))). -16.95  
mir-10b ENSRNOG00000001409 2376 nt UTR 2 hits 639 860

-----1-----1-----  
-----  
>ENSRNOG00000001409 hs-mir-10b 639 646  
UACCCUGUAGAACCGAAUUUGU&GGAGUAUUUACAAGAGUGGGUAUUAGGGAAGUCACACAGGGUAG  
(((((((((((((.....&.....)))))).....))))). -20.62  
>ENSRNOG00000001409 hs-mir-10b 860 867  
UACCCUGUAGAACCGAAUUUGU&GAUGGGGUGGGGAGAGGGCUCUCCCUACACUCCUCACAGGGUU  
(((((((((((((.....&.....)))))).....))))). -15.90

miRNA: mir-15a  
Human predicted target: ENSG00000100116  
Mouse predicted target: ENSMUSG00000006378  
Rat predicted target: ENSRNOG00000010596  
Hs Gene description: 2-AMINO-3-KETOBUTYRATE COENZYME A LIGASE,  
MITOCHONDRIAL PRECURSOR (EC 2.3.1.29) (AKB LIGASE) (GLYCINE  
ACETYLTRANSFERASE). [Source:SWISSPROT;Acc:075600] NM\_014291  
mir-15a ENSG00000100116 2000 nt UTR 3 hits 687 1194 1580

-----1-----1-----1-----  
-----  
>ENSG00000100116 hs-mir-15a 687 694  
UAGCAGCACAUAUUGGUUUGUG&AGGCCAGUCCACCGUUUGUCUCGGGUAGUUUCUGUGCUGCUGU  
(((((((((((((.....&.....)))))).....))))). -22.93  
>ENSG00000100116 hs-mir-15a 1194 1201  
UAGCAGCACAUAUUGGUUUGUG&AGGCUGCCCAGCAGUCAAGGCCAGGAGAGCGAUUUGCUGCUGC  
(((((((((((((.....&.....)))))).....))))). -20.30  
>ENSG00000100116 hs-mir-15a 1580 1587  
UAGCAGCACAUAUUGGUUUGUG&AUUCAGGGAAUCCAGCCUGCGAUCCGGAGACCUUGCUGCUGG  
(((((((((((((.....&.....)))))).....))))). -21.22  
mir-15a ENSMUSG00000006378 2165 nt UTR 4 hits 317 772 829 937

-----1-----1--1--1-----  
-----  
>ENSMUSG00000006378 hs-mir-15a 317 324  
UAGCAGCACAUAUUGGUUUGUG&UCUGGGAGCCACCGUUUCGUACAUAAGCAUUCUGUGCUGCUGU  
(((((((((((((.....&.....)))))).....))))). -30.80  
>ENSMUSG00000006378 hs-mir-15a 772 779  
UAGCAGCACAUAUUGGUUUGUG&UGGGCAGCCUCAAGCCAGGCCAGAAGGGCUGGUUUGCUGCUAC  
(((((((((((((.....&.....)))))).....))))). -23.09  
>ENSMUSG00000006378 hs-mir-15a 829 836

UAGCAGCACAUAAUGGUUUGUG&UUCUACCCUGUCUCCUACCGGCAACCAUCACACCUGCUGCUC  
(((((((((.(((.&.....))))).....))))). -21.10  
>ENSMUSG00000006378 hs-mir-15a 937 944

UAGCAGCACAUAAUGGUUUGUG&GGAAUCUCGCAGGCUCAGCCCCGAGGCUUAUGACUGCUGCUGU  
(((((((((.(((.&.....))))).....))))). -25.70  
mir-15a ENSRNOG00000010596 2000 nt UTR 3 hits 853 885 1930

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

>ENSRNOG00000010596 hs-mir-15a 853 860  
UAGCAGCACAUAAUGGUUUGUG&UAGGCAGCCUGAGGCAAGGCCAGAAGGGCUGGUUUGCUGCUGC  
(((((((((.(((.&.....))))).....))))). -21.90  
>ENSRNOG00000010596 hs-mir-15a 885 892

UAGCAGCACAUAAUGGUUUGUG&GUUUGCUGCUGCGAGGGCCGUGUCCUUGUCUUCUUGCUGCUU  
(((((((((.(((.&.....))))).....))))). -18.77  
>ENSRNOG00000010596 hs-mir-15a 1930 1937

UAGCAGCACAUAAUGGUUUGUG&CAGCAGGAGAGCCACCUCUGCAGCUCCAGUCACUGCUGCUGG  
(((((((((.(((.&.....))))).....))))). -21.30

miRNA: mir-15a  
Human predicted target: ENSG00000116688  
Mouse predicted target: ENSMUSG00000029020  
Rat predicted target: ENSRNOG00000006904  
Hs Gene description: MITOFUSIN 2; MITOCHONDRIAL ASSEMBLY REGULATORY FACTOR. [Source:RefSeq;Acc:NM\_014874] NM\_014874  
mir-15a ENSG00000116688 3940 nt UTR 3 hits 620 1784 3078

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

>ENSG00000116688 hs-mir-15a 620 627  
UAGCAGCACAUAAUGGUUUGUG&UGAGGCGGGCCUGUGCUGGGGUGGUAGAAAGGAUGCUGCUGA  
(((((((((.(((.&.....))))).....))))). -23.20  
>ENSG00000116688 hs-mir-15a 1784 1791

UAGCAGCACAUAAUGGUUUGUG&CCUUCUGAAAGAAGUAUGGCCAAAAGCACUUAAUGCUGCUGA  
(((((((((.(((.&.....))))).....))))). -18.74  
>ENSG00000116688 hs-mir-15a 3078 3085

UAGCAGCACAUAAUGGUUUGUG&AUAGUUUGAAAAGGGCCUUCUUGCCUUAUGCAAUGCUGCUU  
(((((((((.(((.&.....))))).....))))). -20.80  
mir-15a ENSMUSG00000029020 3790 nt UTR 4 hits 1042 1107 1110 1636

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

>ENSMUSG00000029020 hs-mir-15a 1042 1049  
UAGCAGCACAUAAUGGUUUGUG&GGCAGGCCUCCUCCUCUUCUGCCCCUGAAGCCUCCUGCUGCUU  
(((((((((.(((.&.....))))).....))))). -19.00  
>ENSMUSG00000029020 hs-mir-15a 1107 1114

UAGCAGCACAUAAUGGUUUGUG&GGCAGGCCUCCUCCUCUUCUGCCCCUGAAGCCUCCUGCUGCUGC  
(((((((((.(((.&.....))))).....))))). -20.20

>ENSMUSG00000029020 hs-mir-15a 1110 1117  
UAGCAGCACAUAAUGGUUUGUG&AGGCCUCCUCCUCUUCUGCCCCUGAAGCCUCCUGCUGCUGCUC  
.((((((((.....((((.....&.....))))))....)))). -20.70  
>ENSMUSG00000029020 hs-mir-15a 1636 1643  
UAGCAGCACAUAAUGGUUUGUG&CUGAGAGACAUUUAGCAGAGAGCACUUUAGUUUUUUGCUGCUAA  
((((((((.....((((.....&.....))))))....)))). -19.10  
mir-15a ENSRNOG00000006904 3283 nt UTR 3 hits 945 1911 2516  
-----1-----  
--1-----1-----  
>ENSRNOG00000006904 hs-mir-15a 945 952  
UAGCAGCACAUAAUGGUUUGUG&CUCAAGCCUCCUCCUCUUCUGCUCUCCUGAAGCCUCCUGCUGCUU  
.((((((((.....((((.....&.....))))))....)))). -19.00  
>ENSRNOG00000006904 hs-mir-15a 1911 1918  
UAGCAGCACAUAAUGGUUUGUG&CUCAAGCCUCCUCCUCUUCUGCUCUCCUGAAGCCUCCUGCUGCUU  
.((((((((.....((((.....&.....))))))....)))). -19.00  
>ENSRNOG00000006904 hs-mir-15a 2516 2523  
UAGCAGCACAUAAUGGUUUGUG&CUGAGAGACGUUUAGCAGAGAGCACUUUAGUUUCUUGCUGCUAA  
((((((((.....((((.....&.....))))))....)))). -19.10

miRNA: mir-15a

Human predicted target: ENSG00000119403

Mouse predicted target: ENSMUSG00000026873

Rat predicted target: ENSRNOG00000018874

mir-15a ENSG00000119403 4252 nt UTR 4 hits 501 1377 1480 2216

-----1-----1-----1-----  
-----1-----  
-----  
>ENSG00000119403 hs-mir-15a 501 508  
UAGCAGCACAUAAUGGUUUGUG&CUUUGAGAGAGCAUGGGAGAAGGUGGAUAAGAGGAUGCUGCUC  
.((((((((.....((((.....&.....))))))....)))). -17.64  
>ENSG00000119403 hs-mir-15a 1377 1384  
UAGCAGCACAUAAUGGUUUGUG&CAAAAUUGGGAGGGGGAAGAGGACCCUGAUGUUUUGCUGCUU  
.((((((((.....((((.....&.....))))))....)))). -20.00  
>ENSG00000119403 hs-mir-15a 1480 1487  
UAGCAGCACAUAAUGGUUUGUG&AGGGUGGGCACCAGAUGGGGACCAGCCUUGCCAACUGCUGCUGU  
((((((((.....((((.....&.....))))))....)))). -21.80  
>ENSG00000119403 hs-mir-15a 2216 2223  
UAGCAGCACAUAAUGGUUUGUG&CCUCUGCACCUUCAAAAAGAUUCAUGGUUUUAAUUGCUGCUU  
.((((((((.....((((.....&.....))))))....)))). -16.10  
mir-15a ENSMUSG00000026873 3964 nt UTR 3 hits 153 1219 1905  
-----1-----1-----  
--1-----  
-----  
>ENSMUSG00000026873 hs-mir-15a 153 160  
UAGCAGCACAUAAUGGUUUGUG&GCCCCUGCCUGCUGCCUGCCAGGCCAAGGCCUGUGUGCUGCUGU  
((((((((.....((((.....&.....))))))....)))). -29.60  
>ENSMUSG00000026873 hs-mir-15a 1219 1226

```

UAGCAGCACAUAAUGGUUUGUG&GGCAAGGGCACCAGACUGAGACUAGCCUCCCUGACUGCUGCUGU
((((((((((.....((((((.&.....)))))))).))))). -20.90
>ENSMUSG00000026873 hs-mir-15a 1905 1912
UAGCAGCACAUAAUGGUUUGUG&CCCUGUGCACCUUUGAAAAGAUUUUGGUUUUAAAUUGCUGCUU
.((((((((.....&.....)))))))). -15.20
mir-15a ENSRNOG00000018874 2000 nt UTR 3 hits 155 1234 1944
-----1-----1-----
---1--
>ENSRNOG00000018874 hs-mir-15a 155 162
UAGCAGCACAUAAUGGUUUGUG&GCCCCUGCCUGCUGUCUGCCAGGCCAAGGUCUGUGCUGCUGU
((((((((((((((.....((((((.&.....)))))))).))))).))))). -29.60
>ENSRNOG00000018874 hs-mir-15a 1234 1241
UAGCAGCACAUAAUGGUUUGUG&GGCAGGGGCACCAGACUGGGACCAGCUUCCCUGACUGCUGCUGU
((((((((((((((.....((((((.&.....)))))))).))))).))))). -20.30
>ENSRNOG00000018874 hs-mir-15a 1944 1951
UAGCAGCACAUAAUGGUUUGUG&CCCUGUGCACCUUUGAAGAGAUUCUGGUUUUAAAUUGCUGCUU
.((((((((.....&.....)))))))). -15.20

```

miRNA: mir-15a

Human predicted target: ENSG00000141522

Mouse predicted target: ENSMUSG00000025132

Rat predicted target: ENSRNOG00000007974

Hs Gene description: RHO GDP-DISSOCIATION INHIBITOR 1 (RHO GDI 1) (RHO-GDI ALPHA). [Source:SWISSPROT;Acc:P52565] NM\_004309

mir-15a ENSG00000141522 3155 nt UTR 7 hits 220 385 629 632 635 1168 2546

```

-----1-----1-----#-----1-----
-----1-----
>ENSG00000141522 hs-mir-15a 220 227
UAGCAGCACAUAAUGGUUUGUG&CCCACAGGCCCCAGCCUCCUCGGUCUCCUGUCUCGUUGCUGCUU
.((((((((((((((.....((((((.&..)))))))).))))).))))). -20.39
>ENSG00000141522 hs-mir-15a 385 392
UAGCAGCACAUAAUGGUUUGUG&UCCAGGCCCCGUGGUUGCCCUGGACGUGUGCGUCUGCUGCUC
.((((((((((((((.....((((((.&..)))))))).))))).))))). -19.40
>ENSG00000141522 hs-mir-15a 629 636
UAGCAGCACAUAAUGGUUUGUG&GUGGCGAACCCAGUGACCCAGGGACACGUGGGGUGUGCUGCUGC
((((((((((((((.....((((((.&.....)))))))).))))).))))). -29.10
>ENSG00000141522 hs-mir-15a 632 639
UAGCAGCACAUAAUGGUUUGUG&GCGAACCCAGUGACCCAGGGACACGUGGGGUGUGCUGCUGCUGC
((((((((((((((.....((((((.&)))))))).))))).))))). -24.81
>ENSG00000141522 hs-mir-15a 635 642
UAGCAGCACAUAAUGGUUUGUG&AACCCAGUGACCCAGGGACACGUGGGGUGUGCUGCUGCUGCUC
.((((((((((((((.....((((((.&.....)))))))).))))).))))). -20.80
>ENSG00000141522 hs-mir-15a 1168 1175
UAGCAGCACAUAAUGGUUUGUG&GGGAAUAAAUGCCCUGAAGGAGCUGGGGUGUGCUGCUGCUU
.((((((((((((((.....((((((.&.....)))))))).))))).))))). -20.80
>ENSG00000141522 hs-mir-15a 2546 2553

```



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

>ENSMUSG00000013973 hs-mir-15a 524 531  
UAGCAGCACAUA AUGGUUUGUG&AAGCUGUGGCCCUUUGCAGUCUCUCCUGGCCUUGGUGCUGCUC  
.(((((((((.(((.((((.....&.....))))))))))))). -21.80  
>ENSMUSG00000013973 hs-mir-15a 1069 1076  
UAGCAGCACAUA AUGGUUUGUG&ACAUUAUGAUUAUUUAUUUUUUUCAAUGCCAGUGCUGCUC  
.(((((((((.(((.((((.....&.....))))))))))))). -21.30  
>ENSMUSG00000013973 hs-mir-15a 1543 1550  
UAGCAGCACAUA AUGGUUUGUG&CUUGCUCUUGUUUCAUGGUGGCGUCCACACUGCGCUGCUGCUAU  
(((((((((.(((.((((.....&.....))))))))))))). -19.50  
mir-15a ENSRNOG00000003779 2487 nt UTR 4 hits 534 1076 1545 1548

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

>ENSRNOG00000003779 hs-mir-15a 534 541  
UAGCAGCACAUA AUGGUUUGUG&AGCUGUGGCCCUUUGCACUGUCUCCUGGCCUCGGGUGCUGCUC  
.(((((((((.(((.((((.....&.....))))))))))))). -22.20  
>ENSRNOG00000003779 hs-mir-15a 1076 1083  
UAGCAGCACAUA AUGGUUUGUG&UUAUGAUUGAUUAUUUAUUUUUUCAAUGCCAGUGCUGCUC  
.(((((((((.(((.((((.....&.....))))))))))))). -21.30  
>ENSRNOG00000003779 hs-mir-15a 1545 1552  
UAGCAGCACAUA AUGGUUUGUG&UAACUUGCUCUUGUCUCAUGGUGGCGUCCACACUGUGCUGCUGC  
(((((((((.(((.((((.....&.....))))))))))))). -25.00  
>ENSRNOG00000003779 hs-mir-15a 1548 1555  
UAGCAGCACAUA AUGGUUUGUG&CUUGCUCUUGUCUCAUGGUGGCGUCCACACUGUGCUGCUGCUAU  
(((((((((.(((.((((.....&.....))))))))))))). -24.10

miRNA: mir-15a

Human predicted target: ENSG00000161939

Mouse predicted target: ENSMUSG00000020831

Rat predicted target: ENSRNOG00000018829

mir-15a ENSG00000161939 2255 nt UTR 2 hits 415 727

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

>ENSG00000161939 hs-mir-15a 415 422  
UAGCAGCACAUA AUGGUUUGUG&AUUGGCAGACUCGCUUCCUGUGCCAAUAUUUCUGUGCUGCUAG  
(((((((((.(((.((((.....&.....))))))))))))). -24.82  
>ENSG00000161939 hs-mir-15a 727 734  
UAGCAGCACAUA AUGGUUUGUG&UUGGACGUGGCCACAGUGCCGUACAAACCACAGUGUGCUGCUGG  
(((((((((.(((.((((.....&.....))))))))))))). -34.10  
mir-15a ENSMUSG00000020831 2252 nt UTR 3 hits 391 723 1308

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

>ENSMUSG00000020831 hs-mir-15a 391 398  
UAGCAGCACAUA AUGGUUUGUG&AUUGGCAGACUCACUCCCAUGCCAAUAUUUCUGUGCUGCUAG  
(((((((((.(((.((((.....&.....))))))))))))). -25.30  
>ENSMUSG00000020831 hs-mir-15a 723 730

UAGCAGCACAUAAUGGUUUGUG&UUGGACGUGGCCACAGUGCCGUACAAACCACAGUGUGCUGCUGG  
(((((((((((((..(((((((((&.....))))))))))..)))))))). -34.10  
>ENSMUSG00000020831 hs-mir-15a 1308 1315  
UAGCAGCACAUAAUGGUUUGUG&CAUCUGGACCAGAGGGCAAAGUAUUCAACCCCAAGUGCUGCUU  
..((((((((.....((((.....&.....))))))..)))))))). -20.60  
mir-15a ENSRNOG00000018829 2258 nt UTR 3 hits 877 1214 1811  
-----1-----1-----1-----1-----

>ENSRNOG00000018829 hs-mir-15a 877 884  
UAGCAGCACAUAAUGGUUUGUG&AUUGGCAGACUCACUUACCCGUGCCAAUUAUUUCUGUGCUGCUAG  
(((((((((((((..(((((((((&.....))))))))))..)))))))). -24.20  
>ENSRNOG00000018829 hs-mir-15a 1214 1221  
UAGCAGCACAUAAUGGUUUGUG&UUGGACGUGGCCACAGUGCCGUACAAACCACAGUGUGCUGCUGG  
(((((((((((((..(((((((((&.....))))))))))..)))))))). -34.10  
>ENSRNOG00000018829 hs-mir-15a 1811 1818  
UAGCAGCACAUAAUGGUUUGUG&CUUCUGGACCAGAGGGCAAAGUAUUCAACCCCAAGUGCUGCUC  
..((((((((.....((((.....&.....))))))..)))))))). -20.60

miRNA: mir-15a  
Human predicted target: ENSG00000163444  
Mouse predicted target: ENSMUSG00000042305  
Rat predicted target: ENSRNOG00000003594  
Hs Gene description: NM\_138391

mir-15a ENSG00000163444 2500 nt UTR 3 hits 1146 1300 1504  
-----1-----1-----1-----1-----  
>ENSG00000163444 hs-mir-15a 1146 1153  
UAGCAGCACAUAAUGGUUUGUG&AUAAGCACUUAGCGACUUUGCUCUGCCCGUACUGUGCUGCUU  
..(((((((((((((..(((((((((&.....))))))))))..)))))))). -23.10  
>ENSG00000163444 hs-mir-15a 1300 1307  
UAGCAGCACAUAAUGGUUUGUG&AAUCACGUUUUUUCUGUUUUGCUAAGGAGAAAACCUUGCUGCUU  
..((((((((.....((((.....&.....))))))..)))))))). -18.10  
>ENSG00000163444 hs-mir-15a 1504 1511  
UAGCAGCACAUAAUGGUUUGUG&CCUAGGAAUUAUCCUAGAAAGCAUCUGCUUAAUUUUGCUGCUAA  
(((((((((((((..(((((((((&.....))))))))))..)))))))). -20.10  
mir-15a ENSMUSG00000042305 3912 nt UTR 4 hits 399 1599 1602 2468  
-----1-----1-----1-----1-----

>ENSMUSG00000042305 hs-mir-15a 399 406  
UAGCAGCACAUAAUGGUUUGUG&AGGAACUCAGAGGCUUAAAUGGUUGCUCCAAUGUUGCUGCUC  
..(((((((((((((..(((((((((&.....))))))))))..)))))))). -19.80  
>ENSMUSG00000042305 hs-mir-15a 1599 1606  
UAGCAGCACAUAAUGGUUUGUG&UGCUAUUUAAAGACCAUUCUUAAGCAUCUGUUUAAUGCUGCUGC  
(((((((((((((..(((((((((&.....))))))))))..)))))))). -20.70  
>ENSMUSG00000042305 hs-mir-15a 1602 1609  
UAGCAGCACAUAAUGGUUUGUG&UAUUUAAAGACCAUUCUUAAGCAUCUGUUUAAUGCUGCUGCUGA



((((((((((((((((((((((((((...&.....)))))))))).....)))))))). -23.69  
>ENSMUSG00000042305 hs-mir-15a 2468 2475  
UAGCAGCACAUAUGGUUUGUG&CUGCCUAUGUGCACAUGUAUAUAGAACAGUUCACUGCUGCUGG  
((((((((((((((((((((((((((...&.....)))))))))).....)))))))). -19.20  
mir-15a ENSRNOG00000003594 2487 nt UTR 3 hits 400 1617 2462  
-----1-----1-----1-----1-----1-----1-----1-----1-----1-----  
-----1-----1-----  
>ENSRNOG00000003594 hs-mir-15a 400 407  
UAGCAGCACAUAUGGUUUGUG&AGGAACCCAGAGGCUUAAAACAGUUGUCCAAUGUUGCUGCUC  
((((((((((((((((((((((((((...&.....)))))))))).....)))))))). -20.30  
>ENSRNOG00000003594 hs-mir-15a 1617 1624  
UAGCAGCACAUAUGGUUUGUG&UAUUUACAGAACAUCUUUAGCAUCUGUUUAAUACUGCUGCUGA  
((((((((((((((((((((((((((...&.....)))))))))).....)))))))). -19.10  
>ENSRNOG00000003594 hs-mir-15a 2462 2469  
UAGCAGCACAUAUGGUUUGUG&GCCUGUGUGCACAUGUAUAUAGAACAGUUCUCUGCUGCUGG  
((((((((((((((((((((((((((...&.....)))))))))).....)))))))). -19.20

miRNA: mir-15a

Human predicted target: ENSG00000167778  
Mouse predicted target: ENSMUSG00000036966  
Rat predicted target: ENSRNOG00000010793  
Hs Gene description: NM\_032840

mir-15a ENSG00000167778 3227 nt UTR 3 hits 467 912 1125  
-----1-----1-----1-----1-----1-----1-----1-----1-----1-----  
-----1-----1-----1-----1-----1-----1-----1-----1-----1-----  
>ENSG00000167778 hs-mir-15a 467 474  
UAGCAGCACAUAUGGUUUGUG&CUUUCUUGUUUUCUUUCCUGGUUGUGUGAACCAGUUGCUGCUGU  
((((((((((((((((((((((((((...&.....)))))))))).....)))))))). -23.70  
>ENSG00000167778 hs-mir-15a 912 919  
UAGCAGCACAUAUGGUUUGUG&CCUCCCUUUUCCUGCCCCGUCCCAUGCCUCAGCUUGCUGCUU  
((((((((((((((((((((((((((...&.....)))))))))).....)))))))). -19.40  
>ENSG00000167778 hs-mir-15a 1125 1132  
UAGCAGCACAUAUGGUUUGUG&CGGGUAGGGCUGUAGGGAAAGCGGGUGAGCUGUUGUGCUGCUGG  
((((((((((((((((((((((((((...&.....)))))))))).....)))))))). -26.40  
mir-15a ENSMUSG00000036966 3040 nt UTR 3 hits 356 749 933  
-----1-----1-----1-----1-----1-----1-----1-----1-----1-----  
-----1-----1-----1-----1-----1-----1-----1-----1-----1-----  
>ENSMUSG00000036966 hs-mir-15a 356 363  
UAGCAGCACAUAUGGUUUGUG&AAUUCUCUUAUCCCUCCUCUCAUGUAAGCCAGUUGCUGCUGU  
((((((((((((((((((((((((((...&.....)))))))))).....)))))))). -23.00  
>ENSMUSG00000036966 hs-mir-15a 749 756  
UAGCAGCACAUAUGGUUUGUG&CUUCACCUACCCACCCCCACCCUGUGCCCCAGCUUGCUGCUU  
((((((((((((((((((((((((((...&.....)))))))))).....)))))))). -18.30  
>ENSMUSG00000036966 hs-mir-15a 933 940  
UAGCAGCACAUAUGGUUUGUG&ACAGUGGGUAGGGCUGGGGAGGGGGUUUGUUGUCGUGCUGCUGG  
((((((((((((((((((((((((((...&.....)))))))))).....)))))))). -23.10  
mir-15a ENSRNOG00000010793 2974 nt UTR 4 hits 307 868 1321 1897

```

-----1-----1-----1-----
-1-----
>ENSRNOG00000010793 hs-mir-15a      307      314
UAGCAGCACAUAUAUGGUUUGUG&AAUUCUCUUCUCCUCGUGUGAACCAGUUGCUGCUGU
((((((((.....(((((.&.....)))))))))..)))))).. -23.70
>ENSRNOG00000010793 hs-mir-15a      868      875
UAGCAGCACAUAUAUGGUUUGUG&GCACAGUGGGACUGGGGAGGGAUUCGUUGUCAUGCUGCUGG
(((((((((.(((((.(((&.)..))))))..))))))..)))))).. -21.30
>ENSRNOG00000010793 hs-mir-15a     1321     1328
UAGCAGCACAUAUAUGGUUUGUG&AAUUCUCUUCUCCUCGUGUGAACCAGUUGCUGCUGU
((((((((.....(((((.&.....)))))))))..)))))).. -23.70
>ENSRNOG00000010793 hs-mir-15a     1897     1904
UAGCAGCACAUAUAUGGUUUGUG&GCACAGUGGGACUGGGGAGGGAUUCGUUGUCAUGCUGCUGG
(((((((((.(((((.(((&.)..))))))..))))))..)))))).. -21.30

```

miRNA: mir-15a

Human predicted target: ENSG00000176095

Mouse predicted target: ENSMUSG00000032594

Rat predicted target: ENSRNOG00000019932

Hs Gene description: INOSITOL HEXAPHOSPHATE KINASE 1.

[Source:RefSeq;Acc:NM\_153273] NM\_153273

mir-15a ENSG00000176095 4827 nt UTR 7 hits 849 852 1420 1922 2006  
2009 2625

```

-----11-----1-----
--1--2-----1-----
-----
>ENSG00000176095 hs-mir-15a      849      856
UAGCAGCACAUAUAUGGUUUGUG&GGGUGGGAGUCUUCUCCUCAAGUUUCGGCAGCUGUGCUGCUGC
((((((((((.....((.....&.....)))))))))..)))))).. -20.90
>ENSG00000176095 hs-mir-15a      852      859
UAGCAGCACAUAUAUGGUUUGUG&UGGGAGUCUUCUCCUCAAGUUUCGGCAGCUGUGCUGCUGCUGG
((((((((((.....((.....&.....)))))))))..)))))).. -20.70
>ENSG00000176095 hs-mir-15a     1420     1427
UAGCAGCACAUAUAUGGUUUGUG&GUCAUUUUGGCUGCCAGCCUUAUAUGGCACAGAUCUGCUGCUU
.((((((((.....(((((((&.....)))))))))..)))))).. -21.50
>ENSG00000176095 hs-mir-15a     1922     1929
UAGCAGCACAUAUAUGGUUUGUG&AUUCCUCGAUUCUGGGAGGAGAGGCUGCCGCAUUCUGCUGCUC
.((((((((.....(((((.&.....))))))..)))))).. -19.40
>ENSG00000176095 hs-mir-15a     2006     2013
UAGCAGCACAUAUAUGGUUUGUG&UCCUGGCACUACAAAGAGUGGGAAGGCCUGGGAUUUGCUGCUGC
(((((((((.((.....((.....&.....))))))..)))))).. -21.40
>ENSG00000176095 hs-mir-15a     2009     2016
UAGCAGCACAUAUAUGGUUUGUG&UGGCACUACAAAGAGUGGGAAGGCCUGGGAUUUGCUGCUGCUC
.((((((((.....(((((.&.....))))))..)))))).. -19.50
>ENSG00000176095 hs-mir-15a     2625     2632
UAGCAGCACAUAUAUGGUUUGUG&GAACUGUAAGCCUCGCGUUCUGGGAUUCGCUCUCUGCUGCUC
.((((((((.....(((((.&.....))))))..)))))).. -18.40

```

```

mir-15a   ENSMUSG00000032594   2000 nt UTR   4 hits 847 865 1406 1887
-----11-----1-----
-1----
>ENSMUSG00000032594 hs-mir-15a   847   854
UAGCAGCACAUAAUGGUUUGUG&UCUGGGUGGCAUCCCUUCCUCACCUGGGGCAGCUGUGCUGCUU
.((((((((((...((((((&.....))))))..))))..)))))))). -21.90
>ENSMUSG00000032594 hs-mir-15a   865   872
UAGCAGCACAUAAUGGUUUGUG&CUCACCUGGGGCAGCUGUGCUGCUUGUGGGUGGGCUGCUGCUC
.(((((((((((((...(((&.....))))))..))))..))))..)))))))). -18.61
>ENSMUSG00000032594 hs-mir-15a  1406  1413
UAGCAGCACAUAAUGGUUUGUG&UUAUUUCUGCUACCAGUCCUUUCAUGGUAGAGACCUGCUGCUGC
((((((((((.....(((...(((&.....))))))..))))..)))))))). -19.80
>ENSMUSG00000032594 hs-mir-15a  1887  1894
UAGCAGCACAUAAUGGUUUGUG&GAUUUACCAGAUUUUGGGAGGUGCUGCCCCAUUCUGCUGCUU
.((((((((((...(((...&.....))))))..))))..)))))))). -19.20
mir-15a   ENSRNOG00000019932   4746 nt UTR   3 hits 1915 1918 2210

```

```

-----2-----1-----
-----
>ENSRNOG00000019932 hs-mir-15a  1915  1922
UAGCAGCACAUAAUGGUUUGUG&CUGCUCUGCAGCACAGUGUGGGGAGGCUGGGAUGUGCUGCUGC
(((((((((((((...(((...&.....))))))..))))..))))..)))))))). -26.80
>ENSRNOG00000019932 hs-mir-15a  1918  1925
UAGCAGCACAUAAUGGUUUGUG&CUCCUGCAGCACAGUGUGGGGAGGCUGGGAUGUGCUGCUGCUU
.(((((((((((((...(((...&.....))))))..))))..))))..)))))))). -20.60
>ENSRNOG00000019932 hs-mir-15a  2210  2217
UAGCAGCACAUAAUGGUUUGUG&GCCCGGGGAGAUGGGUGGGAGUGAAAUGGGAUGGGUGCUGCUU
.((((((((((...((...&.....))))..))))..)))))))). -20.00

```

```

miRNA: mir-15b
Human predicted target: ENSG00000100116
Mouse predicted target: ENSMUSG00000006378
Rat predicted target: ENSRNOG00000010596
Hs Gene description: 2-AMINO-3-KETOBUTYRATE COENZYME A LIGASE,
MITOCHONDRIAL PRECURSOR (EC 2.3.1.29) (AKB LIGASE) (GLYCINE
ACETYLTRANSFERASE). [Source:SWISSPROT;Acc:O75600] NM_014291
mir-15b   ENSG00000100116   2000 nt UTR   3 hits 687 1194 1580
-----1-----1-----1-----
-----
>ENSG00000100116 hs-mir-15b   687   694
UAGCAGCACAUCAUGGUUUACA&AGGCCAGUCCACCGUUUGUCUCGGGUAGUUUCUGUGCUGCUGU
(((((((((((((...(((...&.....))))))..))))..))))..)))))))). -22.91
>ENSG00000100116 hs-mir-15b  1194  1201
UAGCAGCACAUCAUGGUUUACA&AGGCUGCCCAGCAGUCAAGGCCAGGAGAGGCGAUUUGCUGCUGC
((((((((((...(((...&.....))))))..))))..))))..)))))))). -22.50
>ENSG00000100116 hs-mir-15b  1580  1587
UAGCAGCACAUCAUGGUUUACA&AUUCAGGGAAUCCAGCCUGCGAUCCGGAGGACCUUGCUGCUGG

```

```

((((((((((..((..(((..((&.....))..)).)))).)))).)))). -20.30
mir-15b  ENSMUSG00000006378  2165 nt UTR    4 hits 317 772 829 937
-----1-----1--1--1-----
-----
>ENSMUSG00000006378 hs-mir-15b    317    324
UAGCAGCACAUCAUGGUUUACA&UCUGGGAGCCACCGUUUCGUACAUAAGCAUUCUGUGCUGCUGU
((((((((((..(((..(((..((&.....)))).)))).)))).)))). -25.70
>ENSMUSG00000006378 hs-mir-15b    772    779
UAGCAGCACAUCAUGGUUUACA&UGGGCAGCCUCAAGCCAGGCCAGAAGGGCUGGUUUGCUGCUAC
((((((((((..(((..(((..(((..((&.....)))).)))).)))).)))). -23.71
>ENSMUSG00000006378 hs-mir-15b    829    836
UAGCAGCACAUCAUGGUUUACA&UUCUACCCUGUCUCCUACCGGCAACCAUCACACCUGCUGCUC
((((((((((..(((..(((..(((..(((..((&.....)))).)))).)))).)))). -19.60
>ENSMUSG00000006378 hs-mir-15b    937    944
UAGCAGCACAUCAUGGUUUACA&GGAAUCUCGCAGGCUCAGCCCCGCAGGCUUAUGACUGCUGCUGU
((((((((((..(((..(((..(((..(((..((&.....)))).)))).)))).)))). -21.60
mir-15b  ENSRNOG00000010596  2000 nt UTR    3 hits 853 885 1930
-----1-----
---1--
>ENSRNOG00000010596 hs-mir-15b    853    860
UAGCAGCACAUCAUGGUUUACA&UAGGCAGCCUGAGGCAAGGCCAGAAGGGCUGGUUUGCUGCUGC
((((((((((..(((..(((..(((..(((..((&.....)))).)))).)))).)))). -23.41
>ENSRNOG00000010596 hs-mir-15b    885    892
UAGCAGCACAUCAUGGUUUACA&GUUUGCUGCUGCGAGGGCCGUGUCCUUGUCUUCUUGCUGCUU
((((((((((..(((..(((..(((..(((..((&.....)))).)))).)))).)))). -21.19
>ENSRNOG00000010596 hs-mir-15b    1930   1937
UAGCAGCACAUCAUGGUUUACA&CAGCAGGAGAGCCACCUCUGCAGCUCACAGUCACUGCUGCUGG
((((((((((..(((..(((..(((..(((..((&.....)))).)))).)))).)))). -20.00

```

miRNA: mir-15b

Human predicted target: ENSG00000116688

Mouse predicted target: ENSMUSG00000029020

Rat predicted target: ENSRNOG00000006904

Hs Gene description: MITOFUSIN 2; MITOCHONDRIAL ASSEMBLY REGULATORY FACTOR. [Source:RefSeq;Acc:NM\_014874] NM\_014874

mir-15b ENSG00000116688 3940 nt UTR 3 hits 620 1784 3078

```

-----1-----1-----
-----
>ENSG00000116688 hs-mir-15b    620    627
UAGCAGCACAUCAUGGUUUACA&UGAGGCGGGCCUGUGCUGGGGGUGGUAGAAAGGAUGCUGCUGA
((((((((((..(((..(((..(((..(((..((&.....)))).)))).)))).)))). -21.00
>ENSG00000116688 hs-mir-15b    1784   1791
UAGCAGCACAUCAUGGUUUACA&CCUUUCUGAAAGAAGUAUGGCCAAAAGCACUUUAAUGCUGCUGA
((((((((((..(((..(((..(((..(((..((&.....)))).)))).)))).)))). -19.63
>ENSG00000116688 hs-mir-15b    3078   3085
UAGCAGCACAUCAUGGUUUACA&AUAGUUUGAAAAGGGCCUUCUUGCCUUAUGCAAUGCUGCUU

```

.((((((((((...(((.....&.....))))))....))))). -17.40  
mir-15b ENSMUSG00000029020 3790 nt UTR 4 hits 1042 1107 1110 1636  
-----1--2-----1-----  
-----

>ENSMUSG00000029020 hs-mir-15b 1042 1049  
UAGCAGCACAUCAUGGUUUACA&GGCAGGCCUCCUCCUCUUCUGCCCCUGAAGCCUCCUGCUGCUU  
.((((((((.....(((.....&.....))))))....))))). -18.70  
>ENSMUSG00000029020 hs-mir-15b 1107 1114  
UAGCAGCACAUCAUGGUUUACA&GGCAGGCCUCCUCCUCUUCUGCCCCUGAAGCCUCCUGCUGCUGC  
((((((((.....(((.....&.....))))))....))))). -19.90  
>ENSMUSG00000029020 hs-mir-15b 1110 1117  
UAGCAGCACAUCAUGGUUUACA&AGGCCUCCUCCUCUUCUGCCCCUGAAGCCUCCUGCUGCUGCUC  
.((((((((.....(((.....&.....))))))....))))). -20.40  
>ENSMUSG00000029020 hs-mir-15b 1636 1643  
UAGCAGCACAUCAUGGUUUACA&CUGAGAGACAUUUAGCAGAGAGCACUUUAGUUUUUUGCUGCUAA  
((((((((.....&.....))))))....). -17.00  
mir-15b ENSRNOG00000006904 3283 nt UTR 3 hits 945 1911 2516  
-----1-----  
--1-----1-----

>ENSRNOG00000006904 hs-mir-15b 945 952  
UAGCAGCACAUCAUGGUUUACA&CUCAAGCCUCCUCCUCUUCUGCUCUCCUGAAGCCUCCUGCUGCUU  
.((((((((.....(((.....&.....))))))....))))). -18.70  
>ENSRNOG00000006904 hs-mir-15b 1911 1918  
UAGCAGCACAUCAUGGUUUACA&CUCAAGCCUCCUCCUCUUCUGCUCUCCUGAAGCCUCCUGCUGCUU  
.((((((((.....(((.....&.....))))))....))))). -18.70  
>ENSRNOG00000006904 hs-mir-15b 2516 2523  
UAGCAGCACAUCAUGGUUUACA&CUGAGAGACGUUUAGCAGAGAGCACUUUAGUUUCUUGCUGCUAA  
((((((((.....&.....))))))....). -17.00

miRNA: mir-15b  
Human predicted target: ENSG00000119403  
Mouse predicted target: ENSMUSG00000026873  
Rat predicted target: ENSRNOG00000018874  
mir-15b ENSG00000119403 4252 nt UTR 4 hits 501 1377 1480 2216  
-----1-----1-----1-----  
-----1-----

>ENSG00000119403 hs-mir-15b 501 508  
UAGCAGCACAUCAUGGUUUACA&CUUUGAGAGAGCAUGGGAGAAGGUGGAUAAGAGGAUGCUGCUC  
.((((((((.....(((.....&.....))))))....))))). -21.00  
>ENSG00000119403 hs-mir-15b 1377 1384  
UAGCAGCACAUCAUGGUUUACA&CAAAAUUGGGAGGGGAAGAGGACCCUGAUGUUUUGCUGCUU  
.((((((((.....(((.....&.....))))))....))))). -23.80  
>ENSG00000119403 hs-mir-15b 1480 1487  
UAGCAGCACAUCAUGGUUUACA&AGGGUGGGCACCAGAUGGGGACCAGCCUUGCCAACUGCUGCUGU  
((((((((.....(((.....&.....))))))....))))). -23.30

```

>ENSG00000119403 hs-mir-15b 2216 2223
UAGCAGCACAUCAUGGUUUACA&CCUCUGCACCUUCAAAAAGAUUCAUGGUUUUUAAUUGCUGCUU
.(((((((((((((.....&.....)))))))).))))). -18.30
mir-15b ENSMUSG00000026873 3964 nt UTR 3 hits 153 1219 1905
-----1-----1-----
--1-----
-----
>ENSMUSG00000026873 hs-mir-15b 153 160
UAGCAGCACAUCAUGGUUUACA&GCCCCUGCCUGCUGCCUGCCAGGCCAAGGCCUGUGUGCUGCUGU
(((((((((((...(((.....&.....)))))).)))))))). -26.70
>ENSMUSG00000026873 hs-mir-15b 1219 1226
UAGCAGCACAUCAUGGUUUACA&GGCAAGGGCACCAGACUGAGACUAGCCUCCUGACUGCUGCUGU
(((((((((((...(((.....&.....)))))).)))))))). -20.00
>ENSMUSG00000026873 hs-mir-15b 1905 1912
UAGCAGCACAUCAUGGUUUACA&CCCUGUGCACCUUUGAAAAGAUUUUGGUUUUAAAUUGCUGCUU
.(((((((((((...(((.....&.....)))))).))))). -18.50
mir-15b ENSRNOG00000018874 2000 nt UTR 3 hits 155 1234 1944
-----1-----1-----
---1--
>ENSRNOG00000018874 hs-mir-15b 155 162
UAGCAGCACAUCAUGGUUUACA&GCCCCUGCCUGCUGUCUGCCAGGCCAAGGUCUGUGUGCUGCUGU
(((((((((((...(((.....&.....)))))).)))))))). -26.12
>ENSRNOG00000018874 hs-mir-15b 1234 1241
UAGCAGCACAUCAUGGUUUACA&GGCAGGGGCACCAGACUGGGACCAGCUUCCUGACUGCUGCUGU
(((((((((((...(((.....&.....)))))))).))))). -21.51
>ENSRNOG00000018874 hs-mir-15b 1944 1951
UAGCAGCACAUCAUGGUUUACA&CCCUGUGCACCUUUGAAGAGAUUCUGGUUUUAAAUUGCUGCUU
.(((((((((((...(((.....&.....)))))).))))). -19.12

```

```

miRNA: mir-15b
Human predicted target: ENSG00000158796
Mouse predicted target: ENSMUSG00000013973
Rat predicted target: ENSRNOG00000003779
Hs Gene description: DEATH EFFECTOR DOMAIN-CONTAINING PROTEIN (DEATH
EFFECTOR DOMAIN- CONTAINING TESTICULAR MOLECULE) (DEDPRO1) (FLDED-1)
(KE05). [Source:SWISSPROT;Acc:075618] NM_004216
mir-15b ENSG00000158796 3166 nt UTR 3 hits 535 1112 1595
-----1-----1-----1-----
-----
>ENSG00000158796 hs-mir-15b 535 542
UAGCAGCACAUCAUGGUUUACA&AGCUGUGGCCCUUCCACUCUCUCCUGGCCUCUGGUGCUGCUC
.(((((((((((...(((.....&.....)))))).)))))))). -22.20
>ENSG00000158796 hs-mir-15b 1112 1119
UAGCAGCACAUCAUGGUUUACA&ACAGACUUUAUGAUUAUUUAUUUUUCAUGCCAGUGCUGCUC
.(((((((((((...(((.....&.....)))))))).))))). -20.80
>ENSG00000158796 hs-mir-15b 1595 1602
UAGCAGCACAUCAUGGUUUACA&UACUUGCUCUCUCUCAUGGUGGCGUCCACACUGUGCUGCUGC

```

((((((((((...(((...((&.....)))))))). -23.80  
mir-15b ENSMUSG00000013973 2412 nt UTR 3 hits 524 1069 1543

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

>ENSMUSG00000013973 hs-mir-15b 524 531  
UAGCAGCACAUCAUGGUUUACA&AAGCUGUGGCCCUUUGCAGUCUCUCCUGGCCUUGGUGCUGCUC  
.((((((((((...(((...((&.....)))))))). -21.80

>ENSMUSG00000013973 hs-mir-15b 1069 1076  
UAGCAGCACAUCAUGGUUUACA&ACAUUAUGAUUAUUUAUUUUUUUCAAUGCCAGUGCUGCUC  
.((((((((((...(((...((&.....)))))))). -20.80

>ENSMUSG00000013973 hs-mir-15b 1543 1550  
UAGCAGCACAUCAUGGUUUACA&CUUGCUCUUGUUUCAUGGUGGCGUCCACACUGCGCUGCUGCUAU  
((((((((((...(((...((&.....)))))))). -23.86

mir-15b ENSRNOG00000003779 2487 nt UTR 4 hits 534 1076 1545 1548  
-----1-----1-----2-----  
-----

>ENSRNOG00000003779 hs-mir-15b 534 541  
UAGCAGCACAUCAUGGUUUACA&AGCUGUGGCCCUUUGCACUGUCUCCUGGCCUCGGGUGCUGCUC  
.((((((((((...(((...((&.....)))))))). -22.30

>ENSRNOG00000003779 hs-mir-15b 1076 1083  
UAGCAGCACAUCAUGGUUUACA&UUAUGAUUGAUUAUUUAUUUUUUCAAUGCCAGUGCUGCUC  
.((((((((((...(((...((&.....)))))))). -20.80

>ENSRNOG00000003779 hs-mir-15b 1545 1552  
UAGCAGCACAUCAUGGUUUACA&UACUUGCUCUUGUCUCAUGGUGGCGUCCACACUGUGCUGCUGC  
((((((((((...(((...((&.....)))))))). -23.80

>ENSRNOG00000003779 hs-mir-15b 1548 1555  
UAGCAGCACAUCAUGGUUUACA&CUUGCUCUUGUCUCAUGGUGGCGUCCACACUGUGCUGCUGCUAU  
((((((((((...(((...((&.....)))))))). -22.46

miRNA: mir-15b

Human predicted target: ENSG00000161939

Mouse predicted target: ENSMUSG00000020831

Rat predicted target: ENSRNOG00000018829

mir-15b ENSG00000161939 2255 nt UTR 2 hits 415 727

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

>ENSG00000161939 hs-mir-15b 415 422  
UAGCAGCACAUCAUGGUUUACA&AUUGGCAGACUCGCUUCCUGUGCCAAUAUUUCUGUGCUGCUAG  
((((((((((...(((...((&.....)))))))). -23.20

>ENSG00000161939 hs-mir-15b 727 734  
UAGCAGCACAUCAUGGUUUACA&UUGGACGUGGCCACAGUGCCGUACAAACCACAGUGUGCUGCUGG  
((((((((((...(((...((&.....)))))))). -30.00

mir-15b ENSMUSG00000020831 2252 nt UTR 3 hits 391 723 1308  
-----1-----1-----1-----  
-----

>ENSMUSG00000020831 hs-mir-15b 391 398  
UAGCAGCACAUCAUGGUUUACA&AUUGGCAGACUCACUCCCAUGCCAAUAUUUCUGUGCUGCUAG

(((((((((((((.....&.....)))))).....)))))))). -24.30  
>ENSMUSG00000020831 hs-mir-15b 723 730  
UAGCAGCACAUCAUGGUUUACA&UUGGACGUGGCCACAGUGCCGUACAAACCACAGUGUGCUGCUGG  
(((((((((((((.....&.....)))))).....)))))))). -30.00  
>ENSMUSG00000020831 hs-mir-15b 1308 1315  
UAGCAGCACAUCAUGGUUUACA&CAUCUGGACCAGAGGGCAAAGUAUUAACCCCAAGUGCUGCUU  
(((((((((((((.....&.....)))))).....)))))))). -22.45  
mir-15b ENSRNOG00000018829 2258 nt UTR 3 hits 877 1214 1811  
-----1-----1-----1-----1-----

>ENSRNOG00000018829 hs-mir-15b 877 884  
UAGCAGCACAUCAUGGUUUACA&AUUGGCAGACUCACUUACCCGUGCCAAUAUUUCUGUGCUGCUAG  
(((((((((((((.....&.....)))))).....)))))))). -23.90  
>ENSRNOG00000018829 hs-mir-15b 1214 1221  
UAGCAGCACAUCAUGGUUUACA&UUGGACGUGGCCACAGUGCCGUACAAACCACAGUGUGCUGCUGG  
(((((((((((((.....&.....)))))).....)))))))). -30.00  
>ENSRNOG00000018829 hs-mir-15b 1811 1818  
UAGCAGCACAUCAUGGUUUACA&CUUCUGGACCAGAGGGCAAAGUAUUAACCCCAAGUGCUGCUC  
(((((((((((((.....&.....)))))).....)))))))). -22.45

miRNA: mir-15b

Human predicted target: ENSG00000163444  
Mouse predicted target: ENSMUSG00000042305  
Rat predicted target: ENSRNOG00000003594  
Hs Gene description: NM\_138391

mir-15b ENSG00000163444 2500 nt UTR 3 hits 1146 1300 1504  
-----1-----1-----1-----1-----  
>ENSG00000163444 hs-mir-15b 1146 1153  
UAGCAGCACAUCAUGGUUUACA&AUAAGCACUUAGCGACUUUGCUCUGCCCGUACUGUGCUGCUU  
(((((((((((((.....&.....)))))).....)))))))). -23.20  
>ENSG00000163444 hs-mir-15b 1300 1307  
UAGCAGCACAUCAUGGUUUACA&AAUCACGUUUUUCUGUUUUGCUAAGGAGAAAACCUUGCUGCUU  
(((((((((((((.....&.....)))))).....)))))))). -18.10  
>ENSG00000163444 hs-mir-15b 1504 1511  
UAGCAGCACAUCAUGGUUUACA&CCUAGGAAUAUUCUAGAAAGCAUCUGCUUAAUUUUGCUGCUAA  
(((((((((((((.....&.....)))))).....)))))))). -17.80  
mir-15b ENSMUSG00000042305 3912 nt UTR 4 hits 399 1599 1602 2468  
-----1-----1-----1-----1-----

>ENSMUSG00000042305 hs-mir-15b 399 406  
UAGCAGCACAUCAUGGUUUACA&AGGAACUCAGAGGCUUAAAAUGGUUGCUCCAAUGUUGCUGCUC  
(((((((((((((.....&.....)))))).....)))))))). -18.80  
>ENSMUSG00000042305 hs-mir-15b 1599 1606  
UAGCAGCACAUCAUGGUUUACA&UGCUAUUUAAAGACCAUUCUUAAGCAUCUGUUUAAUGCUGCUGC  
(((((((((((((.....&.....)))))).....)))))))). -19.55



>ENSMUSG00000042305 hs-mir-15b 1602 1609  
UAGCAGCACAUCAUGGUUUACA&UAUUUAAAGACCAUUCUUAAGCAUCUGUUUAAUGCUGCUGCUGA  
(((((((((((((...&.....)))))))).)))))))). -21.67  
>ENSMUSG00000042305 hs-mir-15b 2468 2475  
UAGCAGCACAUCAUGGUUUACA&CUGCCUAUGUGCACAUUGUAUUAUAGAACAGUUCACUGCUGCUGG  
(((((((((((((...&.....)))))))).)))))))). -18.94  
mir-15b ENSRNOG00000003594 2487 nt UTR 3 hits 400 1617 2462  
-----1-----1-----  
-----1-----  
>ENSRNOG00000003594 hs-mir-15b 400 407  
UAGCAGCACAUCAUGGUUUACA&AGGAACCCAGAGGCUUAAAACAGUUGUCCAAUGUUGCUGCUC  
(((((((((((((...&.....)))))))).)))))))). -20.20  
>ENSRNOG00000003594 hs-mir-15b 1617 1624  
UAGCAGCACAUCAUGGUUUACA&UAUUUACAGAACAUCUUUAGCAUCUGUUUAAUACUGCUGCUGA  
(((((((((((((...&.....)))))))).)))))))). -16.60  
>ENSRNOG00000003594 hs-mir-15b 2462 2469  
UAGCAGCACAUCAUGGUUUACA&GCCUGUGUGCACAUUGUACAUAUAGAACAGUUCUCUGCUGCUGG  
(((((((((((((...&.....)))))))).)))))))). -18.94

miRNA: mir-15b

Human predicted target: ENSG00000166483

Mouse predicted target: ENSMUSG00000031016

Rat predicted target: ENSRNOG00000010017

Hs Gene description: WEE1-LIKE PROTEIN KINASE (EC 2.7.1.112) (WEE1HU).

[Source:SWISSPROT;Acc:P30291] NM\_003390

mir-15b ENSG00000166483 2000 nt UTR 2 hits 265 544  
-----1-----1-----  
-----

>ENSG00000166483 hs-mir-15b 265 272  
UAGCAGCACAUCAUGGUUUACA&CACCAGCCUUUCCAGGGUUAACCACUGUGGUGGUGUGCUGCUU  
(((((((((((((...&.....)))))))).)))))))). -29.30  
>ENSG00000166483 hs-mir-15b 544 551  
UAGCAGCACAUCAUGGUUUACA&GAUGAUGAUUCUGUGGAGGUAUUGCCUUGUGAAUUGCUGCUAU  
(((((((((((((...&.....)))))))).)))))))). -23.80  
mir-15b ENSMUSG00000031016 3172 nt UTR 2 hits 285 556  
-----1-----1-----  
-----

>ENSMUSG00000031016 hs-mir-15b 285 292  
UAGCAGCACAUCAUGGUUUACA&CAGCCCCUUUGCGGGUGCGCCACUGUGGUGGUGUGCUGCUU  
(((((((((((((...&.....)))))))).)))))))). -29.80  
>ENSMUSG00000031016 hs-mir-15b 556 563  
UAGCAGCACAUCAUGGUUUACA&GAUGGUCAUUCUGUGGAGGCCUUGCCUUGUGAAUUGCUGCUAU  
(((((((((((((...&.....)))))))).)))))))). -21.31  
mir-15b ENSRNOG00000010017 2000 nt UTR 3 hits 287 560 1289  
-----1-----1-----1-----  
-----

>ENSRNOG00000010017 hs-mir-15b 287 294

UAGCAGCACAUCAUGGUUUACA&CACCACCCUUUGCGGGGUGAGCCACUGUGGGUGUGUGUGCUU  
.((((((((((((((((((((((.&.....)))))))))))). -33.40  
>ENSRNOG00000010017 hs-mir-15b 560 567  
UAGCAGCACAUCAUGGUUUACA&GAUGGUCAUUCUGUGGAAGCCUUGCCUUGUGAAUUUGCUGCUAU  
((((((((((..((((((((((.&.....)))))))))))). -21.71  
>ENSRNOG00000010017 hs-mir-15b 1289 1296  
UAGCAGCACAUCAUGGUUUACA&AU AUGACUUGCUGAGAGCAGAGUGCACUCCUCUUUGCUGCUGG  
((((((((((..((.&.....)))))). -18.70

miRNA: mir-15b

Human predicted target: ENSG00000167778

Mouse predicted target: ENSMUSG00000036966

Rat predicted target: ENSRNOG00000010793

Hs Gene description: NM\_032840

mir-15b ENSG00000167778 3227 nt UTR 3 hits 467 912 1125

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

>ENSG00000167778 hs-mir-15b 467 474  
UAGCAGCACAUCAUGGUUUACA&CUUUCUUGUUUUCUUCUGGUUGUGUGAACCAGUUGCUGCUGU  
((((((((((..((((((((((.&.....)))))))))))). -27.10  
>ENSG00000167778 hs-mir-15b 912 919

UAGCAGCACAUCAUGGUUUACA&CCUCCCUUUUCCUGCCCCGUCCCAUGCCUCAGCUUGCUGCUU  
.((((((((((..((((((((((.&.....)))))))))))). -18.70  
>ENSG00000167778 hs-mir-15b 1125 1132

UAGCAGCACAUCAUGGUUUACA&CGGGUAGGGCUGUAGGGAAAGCGGGUGAGCUGUUGUGCUGCUGG  
((((((((((..((((((((((.&.....)))))))))))). -29.50  
mir-15b ENSMUSG00000036966 3040 nt UTR 3 hits 356 749 933

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

>ENSMUSG00000036966 hs-mir-15b 356 363  
UAGCAGCACAUCAUGGUUUACA&AAUUCUCUUCUCCUCUCCUCAUGUAAGCCAGUUGCUGCUGU  
((((((((((..((((((((((.&.....)))))))))))). -27.10  
>ENSMUSG00000036966 hs-mir-15b 749 756

UAGCAGCACAUCAUGGUUUACA&CUUCACCUACCCACCCCCACCCUGUGCCCAGCUUGCUGCUU  
.((((((((((..((((((((((.&.....)))))))))))). -21.10  
>ENSMUSG00000036966 hs-mir-15b 933 940

UAGCAGCACAUCAUGGUUUACA&ACAGUGGGUAGGGCUGGGGAGGGGGUUUGUUGUCGUGCUGCUGG  
((((((((((..((.&.....)))))). -22.73  
mir-15b ENSRNOG00000010793 2974 nt UTR 4 hits 307 868 1321 1897

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

>ENSRNOG00000010793 hs-mir-15b 307 314  
UAGCAGCACAUCAUGGUUUACA&AAUUCUCUUCUCCUUCUCCUCGUGUGAACCAGUUGCUGCUGU  
((((((((((..((((((((((.&.....)))))))))))). -27.10  
>ENSRNOG00000010793 hs-mir-15b 868 875

UAGCAGCACAUCAUGGUUUACA&GCACAGUGGGACUGGGAGGGGAUUCGUUGUCAUGCUGCUGG  
((((((((((..((.&.....)))))). -19.55

>ENSRNOG00000010793 hs-mir-15b 1321 1328  
UAGCAGCACAUCAUGGUUUACA&AAUUCUCUUAUCCUUCUCGUGUGAACCAGUUGCUGCUGU  
((((((((.....((((((((&.....)))))))))))). -27.10  
>ENSRNOG00000010793 hs-mir-15b 1897 1904  
UAGCAGCACAUCAUGGUUUACA&GCACAGUGGUGGGACUGGGGAGGGAUUCGUUGUCAUGCUGCUGG  
((((((((((((((.(.....&))..)))))))). -19.55

miRNA: mir-15b

Human predicted target: ENSG00000176095

Mouse predicted target: ENSMUSG00000032594

Rat predicted target: ENSRNOG00000019932

Hs Gene description: INOSITOL HEXAPHOSPHATE KINASE 1.

[Source:RefSeq;Acc:NM\_153273] NM\_153273

mir-15b ENSG00000176095 4827 nt UTR 7 hits 849 852 1420 1922 2006  
2009 2625

-----11-----1-----  
--1--2-----1-----  
-----

>ENSG00000176095 hs-mir-15b 849 856  
UAGCAGCACAUCAUGGUUUACA&GGGUGGGAGUCUUCUCCUCAAGUUUCGGCAGCUGUGCUGCUGC  
((((((((((...((.(.....&.....))..))))))))). -20.90  
>ENSG00000176095 hs-mir-15b 852 859  
UAGCAGCACAUCAUGGUUUACA&UGGGAGUCUUCUCCUCAAGUUUCGGCAGCUGUGCUGCUGCUGG  
((((((((((...((((((.....&.....)))))))))). -21.40  
>ENSG00000176095 hs-mir-15b 1420 1427  
UAGCAGCACAUCAUGGUUUACA&GUCAUUUUGGCUGCCAGCCUUAUUGGCACAGAUCUGCUGCUU  
((((((((((...((((((...&.....))..)))))))). -19.99  
>ENSG00000176095 hs-mir-15b 1922 1929  
UAGCAGCACAUCAUGGUUUACA&AUUCCUCGAUUCUGGGAGGAGAGGCUGCCGCAUUCUGCUGCUC  
((((((((((.....((((((.....&.....)))))))). -18.10  
>ENSG00000176095 hs-mir-15b 2006 2013  
UAGCAGCACAUCAUGGUUUACA&UCCUGGCACUACAAAGAGUGGGAAGGCCUGGGAUUUGCUGCUGC  
((((((((((...((((((...&.....)))))))). -24.90  
>ENSG00000176095 hs-mir-15b 2009 2016  
UAGCAGCACAUCAUGGUUUACA&UGGCACUACAAAGAGUGGGAAGGCCUGGGAUUUGCUGCUGCUC  
((((((((((...((((((...&.....)))))))). -21.00  
>ENSG00000176095 hs-mir-15b 2625 2632  
UAGCAGCACAUCAUGGUUUACA&GAACUGUAAGCCUCGCGUUCUGGGAAUCGCUCUCUGCUGCUC  
((((((((((.....((((((((&.....)))))))). -20.15  
mir-15b ENSMUSG00000032594 2000 nt UTR 4 hits 847 865 1406 1887

-----11-----1-----  
-1----  
>ENSMUSG00000032594 hs-mir-15b 847 854  
UAGCAGCACAUCAUGGUUUACA&UCUGGGUGGCAUCCUUCUCCUACCUGGGGCAGCUGUGCUGCUU  
((((((((((...((.(...&.....))..))))))))). -21.90  
>ENSMUSG00000032594 hs-mir-15b 865 872  
UAGCAGCACAUCAUGGUUUACA&CUCACCUGGGGCAGCUGUGCUGCUUGUGGGUGGGCUGCUGCUC

.((((((((((((((..(((.((((&.....))))))..))).....)))))))). -21.10  
>ENSMUSG00000032594 hs-mir-15b 1406 1413  
UAGCAGCACAUCAUGGUUUACA&UUAUUUCUGCUACCAGUCCUUUCAUGGUAGAGACCUGCUGCUGC  
((((((((((((((((.....&.....))))))..))).....)))))))). -20.00  
>ENSMUSG00000032594 hs-mir-15b 1887 1894  
UAGCAGCACAUCAUGGUUUACA&GAUUUACCAGAUUUUGGGAGGUGCUGCCCCAUUCUGCUGCUU  
.((((((((((((..(((.((((&.....))))))..))).....)))))))). -18.92  
mir-15b ENSRNOG00000019932 4746 nt UTR 3 hits 1915 1918 2210

-----  
--2-----1-----  
-----  
>ENSRNOG00000019932 hs-mir-15b 1915 1922  
UAGCAGCACAUCAUGGUUUACA&CUGCUCUGCAGCACAGUGUGGGGAGGCUGGGAUGUGCUGCUGC  
((((((((((((((((..(((.((((&.....))))))..))).....)))))))). -29.00  
>ENSRNOG00000019932 hs-mir-15b 1918 1925  
UAGCAGCACAUCAUGGUUUACA&CUCCUGCAGCACAGUGUGGGGAGGCUGGGAUGUGCUGCUGCUU  
.((((((((((((..(((.((((&.....))))))..))).....)))))))). -21.90  
>ENSRNOG00000019932 hs-mir-15b 2210 2217  
UAGCAGCACAUCAUGGUUUACA&GCCCCGGGAGAAUGGGUGGGAGUGAAAUGGGAUGGGUGCUGCUU  
.((((((((((((..(((.((((&.....))))))..))).....)))))))). -23.90

miRNA: mir-16  
Human predicted target: ENSG00000100116  
Mouse predicted target: ENSMUSG00000006378  
Rat predicted target: ENSRNOG00000010596  
Hs Gene description: 2-AMINO-3-KETOBUTYRATE COENZYME A LIGASE,  
MITOCHONDRIAL PRECURSOR (EC 2.3.1.29) (AKB LIGASE) (GLYCINE  
ACETYLTRANSFERASE). [Source:SWISSPROT;Acc:O75600] NM\_014291  
mir-16 ENSG00000100116 2000 nt UTR 3 hits 687 1194 1580  
-----1-----1-----1-----

-----  
>ENSG00000100116 hs-mir-16 687 694  
UAGCAGCACGUAUAUUGGCG&AGGCCAGUCCACCGUUUGUCUCGGGUAGUUUCUGUGCUGCUGU  
((((((((((((((((..(((.((((&.....))))))..))).....)))))))). -22.90  
>ENSG00000100116 hs-mir-16 1194 1201  
UAGCAGCACGUAUAUUGGCG&AGGCUGCCCAGCAGUCAAGGCCAGGAGAGCGAUUUGCUGCUGC  
((((((((((((((((.....((((&.....))))))..))).....)))))))). -26.80  
>ENSG00000100116 hs-mir-16 1580 1587  
UAGCAGCACGUAUAUUGGCG&AUUCAGGGAAUCCAGCCUGCGAUCCGGAGACCUUGCUGCUGG  
((((((((((((((((..(((.((((&.....))))))..))).....)))))))). -20.41  
mir-16 ENSMUSG00000006378 2165 nt UTR 4 hits 317 772 829 937  
-----1-----1--1--1-----

-----  
>ENSMUSG00000006378 hs-mir-16 317 324  
UAGCAGCACGUAUAUUGGCG&UCUGGGAGCCACCGUUUCGUACAUAAGCAUUCUGUGCUGCUGU  
((((((((((((((((..(((.((((&.....))))))..))).....)))))))). -23.83  
>ENSMUSG00000006378 hs-mir-16 772 779

UAGCAGCACGUAAAUAUUGGCG&UGGGCAGCCUCAAGCCAGGCCAGAAGGGCUGGUUUGCUGCUAC  
(((((((((((((.....(((((.&.....)))))).)))).)))).)))). -22.20  
>ENSMUSG0000006378 hs-mir-16 829 836  
UAGCAGCACGUAAAUAUUGGCG&UUCUACCCUGUCUCCUACCGGCAACCAUCACACCUGCUGCUC  
(((((((((((((.....(((((.&.....)))))).)))).)))).)))). -18.80  
>ENSMUSG0000006378 hs-mir-16 937 944  
UAGCAGCACGUAAAUAUUGGCG&GGAAUCUCGCAGGCUCAGCCCCGCAGGCUUAUGACUGCUGCUGU  
(((((((((((((.....(((((.&.....)))))).)))).)))).)))). -21.00  
mir-16 ENSRNOG00000010596 2000 nt UTR 3 hits 853 885 1930  
-----11-----  
---1--  
>ENSRNOG00000010596 hs-mir-16 853 860  
UAGCAGCACGUAAAUAUUGGCG&UAGGCAGCCUGAGGCAAGGCCAGAAGGGCUGGUUUGCUGCUGC  
(((((((((((((.....(((((.&.....)))))).)))).)))).)))). -21.90  
>ENSRNOG00000010596 hs-mir-16 885 892  
UAGCAGCACGUAAAUAUUGGCG&GUUUGCUGCUGCGAGGGCCGUGCCUUGUCUUCUUGCUGCUU  
(((((((((((((.....(((((.&.....)))))).)))).)))).)))). -18.20  
>ENSRNOG00000010596 hs-mir-16 1930 1937  
UAGCAGCACGUAAAUAUUGGCG&CAGCAGGAGAGCCACCUCUGCAGCUCACAGUCACUGCUGCUGG  
(((((((((((((.....(((((.&.....)))))).)))).)))).)))). -20.40

miRNA: mir-16

Human predicted target: ENSG00000116688

Mouse predicted target: ENSMUSG00000029020

Rat predicted target: ENSRNOG00000006904

Hs Gene description: MITOFUSIN 2; MITOCHONDRIAL ASSEMBLY REGULATORY  
FACTOR. [Source:RefSeq;Acc:NM\_014874] NM\_014874

mir-16 ENSG00000116688 3940 nt UTR 3 hits 620 1784 3078

-----1-----1--  
-----1-----  
-----  
>ENSG00000116688 hs-mir-16 620 627  
UAGCAGCACGUAAAUAUUGGCG&UGAGGCGGGCCUGUGCUGGGGGUGGUAGAAAGGAUGCUGCUGA  
(((((((((((((.....(((((.&.....)))))).)))).)))).)))). -18.30  
>ENSG00000116688 hs-mir-16 1784 1791  
UAGCAGCACGUAAAUAUUGGCG&CCUUCUGAAAGAAGUAUGGCCAAAAGCACUUUAAUGCUGCUGA  
(((((((((((((.....(((((.&.....)))))).)))).)))).)))). -22.20  
>ENSG00000116688 hs-mir-16 3078 3085  
UAGCAGCACGUAAAUAUUGGCG&AUAGUUUGAAAAAGGGCCUUCUUGCCUUAUGCAAUGCUGCUU  
(((((((((((((.....(((((.&.....)))))).)))).)))).)))). -20.40  
mir-16 ENSMUSG00000029020 3790 nt UTR 4 hits 1042 1107 1110 1636  
-----1--2-----1-----  
-----  
>ENSMUSG00000029020 hs-mir-16 1042 1049  
UAGCAGCACGUAAAUAUUGGCG&GGCAGGCCUCCUCCUCUUCUGCCCCUGAAGCCUCCUGCUGCUU  
(((((((((((((.....(((((.&.....)))))).)))).)))).)))). -18.17

```

>ENSMUSG00000029020 hs-mir-16 1107 1114
UAGCAGCACGUAAAUAUUGGCG&GGCAGGCCUCCUCCUCUUCUGCCCCUGAAGCCUCCUGCUGCUGC
(((((((((. . . . . (((&. . . . .))))). . . . .))))). -19.37
>ENSMUSG00000029020 hs-mir-16 1110 1117
UAGCAGCACGUAAAUAUUGGCG&AGGCCUCCUCCUCUUCUGCCCCUGAAGCCUCCUGCUGCUGCUC
.(((((((((. . . . . (((&. . . . .))))). . . . .))))). -21.50
>ENSMUSG00000029020 hs-mir-16 1636 1643
UAGCAGCACGUAAAUAUUGGCG&CUGAGAGACAUUUAGCAGAGAGCACUUUAGUUUUUUGCUGCUAA
(((((((((. . . . . (((&. . . . .))))). . . . .))))). -19.80
mir-16 ENSRNOG00000006904 3283 nt UTR 3 hits 945 1911 2516
-----1-----
--1-----1-----
>ENSRNOG00000006904 hs-mir-16 945 952
UAGCAGCACGUAAAUAUUGGCG&CUCAAGCCUCCUCCUCUUCUGCUCUCCUGAAGCCUCCUGCUGCUU
.(((((((((. . . . . (((&. . . . .))))). . . . .))))). -18.50
>ENSRNOG00000006904 hs-mir-16 1911 1918
UAGCAGCACGUAAAUAUUGGCG&CUCAAGCCUCCUCCUCUUCUGCUCUCCUGAAGCCUCCUGCUGCUU
.(((((((((. . . . . (((&. . . . .))))). . . . .))))). -18.50
>ENSRNOG00000006904 hs-mir-16 2516 2523
UAGCAGCACGUAAAUAUUGGCG&CUGAGAGACGUUUAGCAGAGAGCACUUUAGUUUCUUGCUGCUAA
(((((((((. . . . . (((&. . . . .))))). . . . .))))). -20.50

```

miRNA: mir-16

Human predicted target: ENSG00000119403

Mouse predicted target: ENSMUSG00000026873

Rat predicted target: ENSRNOG00000018874

```

mir-16 ENSG00000119403 4252 nt UTR 4 hits 501 1377 1480 2216
-----1-----1-----1-----
-----1-----

```

```

>ENSG00000119403 hs-mir-16 501 508
UAGCAGCACGUAAAUAUUGGCG&CUUUGAGAGAGCAUGGGAGAAGGUGGAUAAGAGGAUGCUGCUC
.(((((((((. . . . . (((&. . . . .))))). . . . .))))). -20.10
>ENSG00000119403 hs-mir-16 1377 1384
UAGCAGCACGUAAAUAUUGGCG&CAAAAUUGGGAGGGGAAGAGGACCCUGAUGUUUUGCUGCUU
.(((((((((. . . . . (((&. . . . .))))). . . . .))))). -20.30
>ENSG00000119403 hs-mir-16 1480 1487
UAGCAGCACGUAAAUAUUGGCG&AGGGUGGGCACCAGAUGGGGACCAGCCUUGCCAACUGCUGCUGU
(((((((((. . . . . (((&. . . . .))))). . . . .))))). -21.30
>ENSG00000119403 hs-mir-16 2216 2223
UAGCAGCACGUAAAUAUUGGCG&CCUCUGCACCUUCAAAAAGAUUCAUGGUUUUUAUUGCUGCUU
.(((((((((. . . . . (((&. . . . .))))). . . . .))))). -16.70
mir-16 ENSMUSG00000026873 3964 nt UTR 3 hits 153 1219 1905
-----1-----1-----
--1-----
-----
>ENSMUSG00000026873 hs-mir-16 153 160

```

```

UAGCAGCACGUAAAUAUUGGCG&GCCCCUGCCUGCUGCCUGCCAGGCCAAGGCCUGUGUGCUGCUGU
((((((((((((((.....(((.&.....)))))).....)))))))). -28.40
>ENSMUSG00000026873 hs-mir-16 1219 1226
UAGCAGCACGUAAAUAUUGGCG&GGCAAGGGCACCAGACUGAGACUAGCCUCCUGACUGCUGCUGU
((((((((((((((.....(((.&.....)))))).....)))))))). -23.22
>ENSMUSG00000026873 hs-mir-16 1905 1912
UAGCAGCACGUAAAUAUUGGCG&CCCUGUGCACC UUUGAAAAGAUUUUGGUUUUAAAUUGCUGCUU
.((((((((((.....(((.&.....)))))).....)))))))). -17.10
mir-16 ENSRNOG00000018874 2000 nt UTR 3 hits 155 1234 1944
-----1-----1-----1-----
---1--
>ENSRNOG00000018874 hs-mir-16 155 162
UAGCAGCACGUAAAUAUUGGCG&GCCCCUGCCUGCUGUCUGCCAGGCCAAGGUCUGUGUGCUGCUGU
((((((((((((((.....(((.&.....)))))).....)))))))). -29.00
>ENSRNOG00000018874 hs-mir-16 1234 1241
UAGCAGCACGUAAAUAUUGGCG&GGCAGGGGCACCAGACUGGGACCAGCUUCCUGACUGCUGCUGU
((((((((((((((.....(((.&.....)))))).....)))))))). -21.32
>ENSRNOG00000018874 hs-mir-16 1944 1951
UAGCAGCACGUAAAUAUUGGCG&CCCUGUGCACC UUUGAAGAGAUUCUGGUUUUAAAUUGCUGCUU
.((((((((((.....(((.&.....)))))).....)))))))). -18.00

```

miRNA: mir-16

Human predicted target: ENSG00000158796

Mouse predicted target: ENSMUSG00000013973

Rat predicted target: ENSRNOG00000003779

Hs Gene description: DEATH EFFECTOR DOMAIN-CONTAINING PROTEIN (DEATH EFFECTOR DOMAIN- CONTAINING TESTICULAR MOLECULE) (DEDPRO1) (FLDED-1) (KE05). [Source:SWISSPROT;Acc:075618] NM\_004216

mir-16 ENSG00000158796 3166 nt UTR 3 hits 535 1112 1595

```

-----1-----1-----1-----
-----1-----1-----1-----
>ENSG00000158796 hs-mir-16 535 542
UAGCAGCACGUAAAUAUUGGCG&AGCUGUGGCCCUUCCACUCUCUCCUGGCCUCUGGUGCUGCUC
.((((((((((((((.....(((.&.....)))))).....)))))))). -21.20
>ENSG00000158796 hs-mir-16 1112 1119
UAGCAGCACGUAAAUAUUGGCG&ACAGACUUUAUGAUUAUUAUUAUUUCAAUGCCAGUGCUGCUC
.((((((((((((((.....(((.&.....)))))).....)))))))). -22.00
>ENSG00000158796 hs-mir-16 1595 1602
UAGCAGCACGUAAAUAUUGGCG&UAACUUGCUCUCUUCUCAUGGUGGCGUCCACACUGUGCUGCUGC
((((((((((((((.....(((.&.....)))))).....)))))))). -21.50
mir-16 ENSMUSG00000013973 2412 nt UTR 3 hits 524 1069 1543
-----1-----1-----1-----
-----1-----1-----1-----
>ENSMUSG00000013973 hs-mir-16 524 531
UAGCAGCACGUAAAUAUUGGCG&AAGCUGUGGCCCUUUGCAGUCUCUCCUGGCCUUGGUGCUGCUC
.((((((((((((((((.....(((.&.....)))))).....)))))))). -21.42
>ENSMUSG00000013973 hs-mir-16 1069 1076

```

```

UAGCAGCACGUAAAUAUUGGCG&ACAUAUGAUUAUAUAUUUUUUUUCAAUGCCAGUGCUGCUC
.((((((((.....(((((&.....)))))))))))). -22.00
>ENSMUSG00000013973 hs-mir-16 1543 1550
UAGCAGCACGUAAAUAUUGGCG&CUUGCUCUUGUUUCAUGGUGGCGUCCACACUGCGCUGCUCUAU
((((((((.....(((((&.....))))))..)))))))). -23.80
mir-16 ENSRNOG00000003779 2487 nt UTR 4 hits 534 1076 1545 1548
-----1-----1-----2-----
-----
>ENSRNOG00000003779 hs-mir-16 534 541
UAGCAGCACGUAAAUAUUGGCG&AGCUGUGGCCCUUUGCACUGUCUCCUGGCCUCGGGUGCUGCUC
.((((((((.....(((((&.....))))..)))))))). -21.70
>ENSRNOG00000003779 hs-mir-16 1076 1083
UAGCAGCACGUAAAUAUUGGCG&UUAUGAUUGAUUAUAUAUUUUUUCAAUGCCAGUGCUGCUC
.((((((((.....(((((&.....)))))))))))). -22.00
>ENSRNOG00000003779 hs-mir-16 1545 1552
UAGCAGCACGUAAAUAUUGGCG&UAACUUGCUCUUGUCUCAUGGUGGCGUCCACACUGUGCUGCUCG
((((((((.....(((((&.....))))..)))))))). -21.50
>ENSRNOG00000003779 hs-mir-16 1548 1555
UAGCAGCACGUAAAUAUUGGCG&CUUGCUCUUGUCUCAUGGUGGCGUCCACACUGUGCUGCUCUAU
((((((((.....(((((&.....))))..)))))))). -23.20

```

miRNA: mir-16

Human predicted target: ENSG00000161939

Mouse predicted target: ENSMUSG00000020831

Rat predicted target: ENSRNOG00000018829

mir-16 ENSG00000161939 2255 nt UTR 2 hits 415 727

```

-----1-----1-----
-----
>ENSG00000161939 hs-mir-16 415 422
UAGCAGCACGUAAAUAUUGGCG&AUUGGCAGACUCGCUUCCUGUGCCAAUAUUUCUGUGCUCUAG
((((((((.....(((((&.....))))))))))..)))))))). -34.80
>ENSG00000161939 hs-mir-16 727 734
UAGCAGCACGUAAAUAUUGGCG&UUGGACGUGGCCACAGUGCCGUACAAACCACAGUGUGCUCUGG
((((((((.....(((((&.....))))))..)))))))). -22.91
mir-16 ENSMUSG00000020831 2252 nt UTR 3 hits 391 723 1308
-----1-----1-----1-----
-----

```

```

>ENSMUSG00000020831 hs-mir-16 391 398
UAGCAGCACGUAAAUAUUGGCG&AUUGGCAGACUCACUCCCCAUGCCAAUAUUUCUGUGCUCUAG
((((((((.....(((((&.....))))))))))..)))))))). -34.90
>ENSMUSG00000020831 hs-mir-16 723 730
UAGCAGCACGUAAAUAUUGGCG&UUGGACGUGGCCACAGUGCCGUACAAACCACAGUGUGCUCUGG
((((((((.....(((((&.....))))))..)))))))). -22.91
>ENSMUSG00000020831 hs-mir-16 1308 1315
UAGCAGCACGUAAAUAUUGGCG&CAUCUGGACCAGAGGGCAAAGUAUUCAACCCCAAGUGCUCUU
.((((((((.....(((((&.....)))))))))))). -19.11
mir-16 ENSRNOG00000018829 2258 nt UTR 3 hits 877 1214 1811

```



-----1-----1-----1-----1-----  
-----  
>ENSRNOG00000018829 hs-mir-16 877 884  
UAGCAGCACGUAAAUAUUGGCG&AUUGGCAGACUCACUUACCCGUGCCAAUAUUUCUGUGCUGCUAG  
(((((((((((((.....)))))))))))). -34.80  
>ENSRNOG00000018829 hs-mir-16 1214 1221  
UAGCAGCACGUAAAUAUUGGCG&UUGGACGUGGCCACAGUGCCGUACAAACCACAGUGUGCUGCUGG  
((((((((((.....)))))))). -22.91  
>ENSRNOG00000018829 hs-mir-16 1811 1818  
UAGCAGCACGUAAAUAUUGGCG&CUUCUGGACCAGAGGGCAAAGUAUUCACCCCAAGUGCUGCUC  
((((((((((.....)))))))). -19.11

miRNA: mir-16

Human predicted target: ENSG00000163444  
Mouse predicted target: ENSMUSG00000042305  
Rat predicted target: ENSRNOG00000003594  
Hs Gene description: NM\_138391

mir-16 ENSG00000163444 2500 nt UTR 3 hits 1146 1300 1504

-----1-----1-----1-----  
-----  
>ENSG00000163444 hs-mir-16 1146 1153  
UAGCAGCACGUAAAUAUUGGCG&AUAAGCACUUAGCGACUUUGCUCUGCCUGUACUGUGCUGCUU  
((((((((((.....)))))))). -22.20  
>ENSG00000163444 hs-mir-16 1300 1307  
UAGCAGCACGUAAAUAUUGGCG&AAUCACGUUUUUUCUGUUUUGCUAAGGAGAAAACCUUGCUGCUU  
((((((((((.....)))))))). -18.70  
>ENSG00000163444 hs-mir-16 1504 1511  
UAGCAGCACGUAAAUAUUGGCG&CCUAGGAAUAUUCUAGAAAGCAUCUGCUUAAUUUUGCUGCUAA  
((((((((((.....)))))))). -19.00  
mir-16 ENSMUSG00000042305 3912 nt UTR 4 hits 399 1599 1602 2468

-----1-----1-----1-----  
-----  
>ENSMUSG00000042305 hs-mir-16 399 406  
UAGCAGCACGUAAAUAUUGGCG&AGGAACUCAGAGGCUUAAAUGGUUGCUCCAAUGUUGCUGCUC  
((((((((((.....)))))))). -20.30  
>ENSMUSG00000042305 hs-mir-16 1599 1606  
UAGCAGCACGUAAAUAUUGGCG&UGCUAUUUAAAGACCAUUCUUAAGCAUCUGUUUAAUGCUGCUGC  
((((((((((.....)))))))). -22.30  
>ENSMUSG00000042305 hs-mir-16 1602 1609  
UAGCAGCACGUAAAUAUUGGCG&UAUUUAAAGACCAUUCUUAAGCAUCUGUUUAAUGCUGCUGCUGA  
((((((((((.....)))))))). -23.10  
>ENSMUSG00000042305 hs-mir-16 2468 2475  
UAGCAGCACGUAAAUAUUGGCG&CUGCCUAUGUGCACAUUGUAUUAUAGAACAGUUCACUGCUGCUGG  
((((((((((.....)))))))). -20.31  
mir-16 ENSRNOG00000003594 2487 nt UTR 3 hits 400 1617 2462

```

-----1-----1-----
-----1-----
>ENSRNOG00000003594 hs-mir-16      400      407
UAGCAGCACGUAAAUAUUGGCG&AGGAACCCAGAGGCUUAAAACAGUUGUCCAUGUUGCUGCUC
.((((((((.....((((((..&.....)))))))))))))))). -20.30
>ENSRNOG00000003594 hs-mir-16      1617     1624
UAGCAGCACGUAAAUAUUGGCG&UAUUUACAGAACAUCUUUAGCAUCUGUUUAAUACUGCUGCUGA
((((((((..((((((...((.&.....)))))))).)))))))). -22.40
>ENSRNOG00000003594 hs-mir-16      2462     2469
UAGCAGCACGUAAAUAUUGGCG&GCCUGUGUGCACAUUGUACAUAUAGAACAGUUCUCUGCUGCUGG
((((((((..(((..(((..((.&))))..))))..))))..)))))))). -20.95

```

miRNA: mir-16

Human predicted target: ENSG00000167778  
 Mouse predicted target: ENSMUSG00000036966  
 Rat predicted target: ENSRNOG00000010793  
 Hs Gene description: NM\_032840

mir-16 ENSG00000167778 3227 nt UTR 3 hits 467 912 1125

```

-----1-----1-----1-----
-----
>ENSG00000167778 hs-mir-16      467      474
UAGCAGCACGUAAAUAUUGGCG&CUUUCUUGUUUUCUUUCCUGGUUGUGUGAACCAGUUGCUGCUGU
((((((((.....((((((..&.....)))))))))))))))). -19.01
>ENSG00000167778 hs-mir-16      912      919
UAGCAGCACGUAAAUAUUGGCG&CCUCCCUUUUUCUGCCCCGUCCAUGCCUCAGCUUGCUGCUU
.((((((((..(((..(((..((.&.....))))..))))..))))..)))))))). -19.80
>ENSG00000167778 hs-mir-16      1125     1132
UAGCAGCACGUAAAUAUUGGCG&CGGGUAGGGCUGUAGGGAAAGCGGGUGAGCUGUUGUGCUGCUGG
((((((((((.....((((((..&.....))))..))))..))))..)))))))). -25.10
mir-16 ENSMUSG00000036966 3040 nt UTR 3 hits 356 749 933

```

```

-----1-----1-----1-----
-----
>ENSMUSG00000036966 hs-mir-16      356      363
UAGCAGCACGUAAAUAUUGGCG&AAUUCUCUUCAUCCCUUCUCCUCAUGUAAGCCAGUUGCUGCUGU
((((((((.....((((((..&.....)))))))))))))))). -23.41
>ENSMUSG00000036966 hs-mir-16      749      756
UAGCAGCACGUAAAUAUUGGCG&CUUCACCUACCCACCCCCACCCUGUGCCCCAGCUUGCUGCUU
.((((((((..(((..(((..((.&.....))))..))))..))))..)))))))). -19.00
>ENSMUSG00000036966 hs-mir-16      933      940
UAGCAGCACGUAAAUAUUGGCG&ACAGUGGGUAGGGCUGGGGAGGGGGUUUGUUGUCGUGUGCUGG
((((((((((.....((((((..&.....))))..))))..))))..)))))))). -25.30
mir-16 ENSRNOG00000010793 2974 nt UTR 4 hits 307 868 1321 1897

```

```

-----1-----1-----1-----
-1-----
>ENSRNOG00000010793 hs-mir-16      307      314
UAGCAGCACGUAAAUAUUGGCG&AAUUCUCUUCAUUCCUUCUCCUCGUGUGAACCAGUUGCUGCUGU
((((((((.....((((((..&.....)))))))))))))))). -19.01

```

>ENSRNOG00000010793 hs-mir-16 868 875  
UAGCAGCACGUAAAUAUUGGCG&GCACAGUGGUGGGACUGGGGAGGGAUUCGUUGUCAUGCUGCUGG  
(((((((((((((.((((.((((.((((.((&)).)))..)))))))). -20.15  
>ENSRNOG00000010793 hs-mir-16 1321 1328  
UAGCAGCACGUAAAUAUUGGCG&AAUUCUCUUCUUCUCCUCGUGUGAACCAGUUGCUGCUGU  
(((((((((((((.((((.((((.((((.((&)).)))..)))))))). -19.01  
>ENSRNOG00000010793 hs-mir-16 1897 1904  
UAGCAGCACGUAAAUAUUGGCG&GCACAGUGGUGGGACUGGGGAGGGAUUCGUUGUCAUGCUGCUGG  
(((((((((((((.((((.((((.((((.((&)).)))..)))))))). -20.15

miRNA: mir-16

Human predicted target: ENSG00000176095

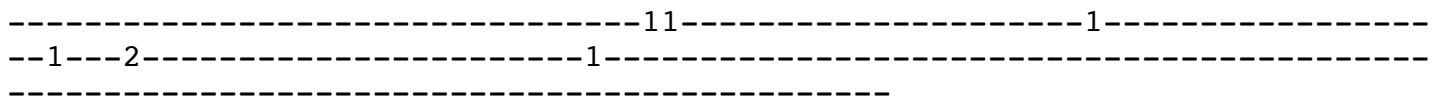
Mouse predicted target: ENSMUSG00000032594

Rat predicted target: ENSRNOG00000019932

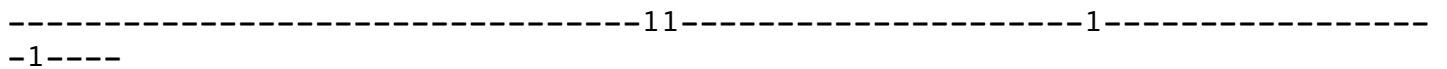
Hs Gene description: INOSITOL HEXAPHOSPHATE KINASE 1.

[Source:RefSeq;Acc:NM\_153273] NM\_153273

mir-16 ENSG00000176095 4827 nt UTR 7 hits 849 852 1420 1922 2006  
2009 2625



>ENSG00000176095 hs-mir-16 849 856  
UAGCAGCACGUAAAUAUUGGCG&GGGUGGGAGUCUUCUCCUCAAGUUUCGGCAGCUGUGCUGCUGC  
(((((((((((((.((((.((((.((((.((&)).)))..)))))))). -21.00  
>ENSG00000176095 hs-mir-16 852 859  
UAGCAGCACGUAAAUAUUGGCG&UGGGAGUCUUCUCCUCAAGUUUCGGCAGCUGUGCUGCUGCUGG  
(((((((((((((.((((.((((.((((.((&)).)))..)))))))). -22.60  
>ENSG00000176095 hs-mir-16 1420 1427  
UAGCAGCACGUAAAUAUUGGCG&GUCAUUUUGGUGCCAGCCUUAUUGGCACAGAUCUGCUGCUU  
(((((((((((((.((((.((((.((((.((&)).)))..)))))))). -18.55  
>ENSG00000176095 hs-mir-16 1922 1929  
UAGCAGCACGUAAAUAUUGGCG&AUUCCUCGAUUCUGGGAGGAGAGGCUGCCGCAUUCUGCUGCUC  
(((((((((((((.((((.((((.((((.((&)).)))..)))))))). -18.30  
>ENSG00000176095 hs-mir-16 2006 2013  
UAGCAGCACGUAAAUAUUGGCG&UCCUGGCACUACAAAGAGUGGGAAGGCCUGGGAUUUGCUGCUGC  
(((((((((((((.((((.((((.((((.((&)).)))..)))))))). -21.30  
>ENSG00000176095 hs-mir-16 2009 2016  
UAGCAGCACGUAAAUAUUGGCG&UGGCACUACAAAGAGUGGGAAGGCCUGGGAUUUGCUGCUGCUC  
(((((((((((((.((((.((((.((((.((&)).)))..)))))))). -26.50  
>ENSG00000176095 hs-mir-16 2625 2632  
UAGCAGCACGUAAAUAUUGGCG&GAACUGUAAGCCUCGCGUUCUGGGAUCGCUCUCUGCUGCUC  
(((((((((((((.((((.((((.((((.((&)).)))..)))))))). -15.82  
mir-16 ENSMUSG00000032594 2000 nt UTR 4 hits 847 865 1406 1887



>ENSMUSG00000032594 hs-mir-16 847 854  
UAGCAGCACGUAAAUAUUGGCG&UCUGGGUGGCAUCCUUCUCCUACCUGGGGCAGCUGUGCUGCUU

```

((((((((((.....(..&.....).....))))))))). -19.80
>ENSMUSG00000032594 hs-mir-16      865      872
UAGCAGCACGUAAAUAUUGGCG&CUCACCUGGGGCAGCUGUGCUUGUGGGUGGGCUGCUGCUC
((((((((((.....(..&.....).....))))))))). -22.30
>ENSMUSG00000032594 hs-mir-16      1406     1413
UAGCAGCACGUAAAUAUUGGCG&UUAUUUCUGCUACCAGUCCUUUCAUGGUAGAGACCUGCUGCUGC
((((((((((.....(..&.....).....))))))))). -20.03
>ENSMUSG00000032594 hs-mir-16      1887     1894
UAGCAGCACGUAAAUAUUGGCG&GAUUUACCAGAUUUUGGGAGGUGCUGCCCCCAUUCUGCUGCUU
((((((((((.....(..&.....).....))))))))). -17.84
mir-16      ENSRNOG00000019932  4746 nt UTR      3 hits 1915 1918 2210

```

```

-----
--2-----1-----
-----
>ENSRNOG00000019932 hs-mir-16      1915     1922
UAGCAGCACGUAAAUAUUGGCG&CUGCUCUGCAGCACAGUGUGGGGAGGCUGGGAUGUGCUGCUGC
((((((((((.....(..&.....).....))))))))). -27.44
>ENSRNOG00000019932 hs-mir-16      1918     1925
UAGCAGCACGUAAAUAUUGGCG&CUCCUGCAGCACAGUGUGGGGAGGCUGGGAUGUGCUGCUGCUU
((((((((((.....(..&.....).....))))))))). -23.90
>ENSRNOG00000019932 hs-mir-16      2210     2217
UAGCAGCACGUAAAUAUUGGCG&GCCCGGGGAGAUGGGUGGGAGUGAAAUGGGAUGGGUGCUGCUU
((((((((((.....(..&.....).....))))))))). -21.79

```

miRNA: mir-18

```

Human predicted target: ENSG00000119242
Mouse predicted target: ENSMUSG00000037979
Rat predicted target: ENSRNOG00000000998
Rat predicted target: ENSRNOG00000001016
Hs Gene description: LIMKAIN BETA 2. [Source:RefSeq;Acc:NM_025140]
NM_025140
mir-18      ENSG00000119242      2650 nt UTR      2 hits 2354 2404

```

```

-----
-----1-1-----
>ENSG00000119242 hs-mir-18      2354     2361
UAAGGUGCAUCUAGUGCAGAUAA&GGGGAUGAUCUUCAGGAUCGGCAGGUCCACAACCAGCACCUUGG
((((((((((.....(..&.....).....))))))))). -18.70
>ENSG00000119242 hs-mir-18      2404     2411
UAAGGUGCAUCUAGUGCAGAUAA&UCUUGAUAAAGACAUCUUCUUUAUAUCCAGUCAGCACCUUC
((((((((((.....(..&.....).....))))))))). -15.70
mir-18      ENSMUSG00000037979  2540 nt UTR      2 hits 2011 2061

```

```

-----
-----1-1-----
>ENSMUSG00000037979 hs-mir-18      2011     2018
UAAGGUGCAUCUAGUGCAGAUAA&GGGGAUGAUCUUGAGGAUGGGCAAGUCCACAACCAGCACCUUGG
((((((((((.....(..&.....).....))))))))). -18.60
>ENSMUSG00000037979 hs-mir-18      2061     2068

```

UAAGGUGCAUCUAGUGCAGAU&UCUUGACAAGACACCCUCUCUCUAUGUCCAGUCAGCACCUUC  
.(((((((...((...&.....))..))..)))). -17.80  
mir-18 ENSRNOG0000000998 2992 nt UTR 2 hits 1983 2033

-----1-1-----  
>ENSRNOG0000000998 hs-mir-18 1983 1990  
UAAGGUGCAUCUAGUGCAGAU&GGGAUGAUCUUCAGGAUGGGCAAGUCCACAACCAGCACCUUGG  
(((((((...((...&.....))..))..))..))..)))). -18.60  
>ENSRNOG0000000998 hs-mir-18 2033 2040  
UAAGGUGCAUCUAGUGCAGAU&UCUUGACAAGACACCCUCUCUCUAUGUCCAGUCAGCACCUUC  
.(((((((...((...&.....))..))..))..)))). -17.80  
mir-18 ENSRNOG0000001016 2992 nt UTR 2 hits 1984 2034

-----1-1-----  
>ENSRNOG0000001016 hs-mir-18 1984 1991  
UAAGGUGCAUCUAGUGCAGAU&GGGAUGAUCUUCAGGAUGGGCAAGUCCACAACCAGCACCUUGG  
(((((((...((...&.....))..))..))..))..)))). -18.60  
>ENSRNOG0000001016 hs-mir-18 2034 2041  
UAAGGUGCAUCUAGUGCAGAU&UCUUGACAAGACACCCUCUCUCUAUGUCCAGUCAGCACCUUC  
.(((((((...((...&.....))..))..))..)))). -17.80

miRNA: mir-18

Human predicted target: ENSG00000130822

Mouse predicted target: ENSMUSG00000002012

Rat predicted target: ENSRNOG00000017923

Hs Gene description: SIMILAR TO CALCIUM/CALMODULIN-DEPENDENT PROTEIN  
KINASE 1, BETA. [Source:SPTREMBL;Acc:Q8N4R0]

mir-18 ENSG00000130822 3754 nt UTR 4 hits 1061 1115 1852 1906

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

>ENSG00000130822 hs-mir-18 1061 1068  
UAAGGUGCAUCUAGUGCAGAU&GAUGACAUCUCAGAAUCAGCCAAAGACUUCAUCCGGCACCUUC  
.(((((((...((...&.....))..))..))..))..)))). -16.90  
>ENSG00000130822 hs-mir-18 1115 1122  
UAAGGUGCAUCUAGUGCAGAU&CCCCAGAAGAGGUUCACCUGCCAACAGGCCUUGCGGCACCUUU  
.(((((((...((...&.....))..))..))..))..)))). -19.30  
>ENSG00000130822 hs-mir-18 1852 1859  
UAAGGUGCAUCUAGUGCAGAU&CCCAGCCUCCUGUUCAGCCAAAGACUUCAUCCGGCACCUUC  
.(((((((...((...&.....))..))..))..))..)))). -17.20  
>ENSG00000130822 hs-mir-18 1906 1913  
UAAGGUGCAUCUAGUGCAGAU&CCCCAGAAGAGGUUCACCUGCCAACAGGCCUUGCGGCACCUUU  
.(((((((...((...&.....))..))..))..))..)))). -19.30  
mir-18 ENSMUSG00000002012 2399 nt UTR 2 hits 279 954

-----1-----  
-----  
>ENSMUSG00000002012 hs-mir-18 279 286

UAAGGUGCAUCUAGUGCAGAU&GGUGUUCAAAAGUGGACUUGGGAGCCAUCUCCUGCACCUUGC  
(((((((((((((((((((((.....&.....)))))))).))))). -19.70  
>ENSMUSG0000002012 hs-mir-18 954 961  
UAAGGUGCAUCUAGUGCAGAU&GGUGUUCAAAAGUGGACUUGGGAGCCAUCUCCUGCACCUUGC  
(((((((((((((((((((((.....&.....)))))))).))))). -19.70  
mir-18 ENSRNOG00000017923 2368 nt UTR 3 hits 249 901 1987  
-----1-----1-----  
-----1-----  
>ENSRNOG00000017923 hs-mir-18 249 256  
UAAGGUGCAUCUAGUGCAGAU&GGUAUUCAAAAUGGAUUUGGGGGCCAUCUCCUGCACCUUGC  
(((((((((((((((((((((.....&.....)))))))).))))). -18.11  
>ENSRNOG00000017923 hs-mir-18 901 908  
UAAGGUGCAUCUAGUGCAGAU&GGUAUUCAAAAUGGAUUUGGGGGCCAUCUCCUGCACCUUGC  
(((((((((((((((((((((.....&.....)))))))).))))). -18.11  
>ENSRNOG00000017923 hs-mir-18 1987 1994  
UAAGGUGCAUCUAGUGCAGAU&AAACCUUAGACAUUGGUACCAAAAUGAGUUUCAGCACCUUGA  
(((((((((((((((((((((.....&.....)))))))).))))). -19.50

miRNA: mir-18

Human predicted target: ENSG00000155111

Mouse predicted target: ENSMUSG00000038481

Rat predicted target: ENSRNOG00000000583

mir-18 ENSG00000155111 6557 nt UTR 2 hits 308 448

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

>ENSG00000155111 hs-mir-18 308 315  
UAAGGUGCAUCUAGUGCAGAU&GUAACCUUCAGCAUUCUUGAAGGAUUUCCUGGUGCACCUUU  
(((((((((((((((((((((.....&.....)))))))).))))). -22.47  
>ENSG00000155111 hs-mir-18 448 455  
UAAGGUGCAUCUAGUGCAGAU&ACUUCAUGAACUGAUUUAGCAACACAGGUAAAAUGCACCUUU  
(((((((((((((((((((((.....&.....)))))))).))))). -19.53  
mir-18 ENSMUSG00000038481 4297 nt UTR 2 hits 287 414

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

>ENSMUSG00000038481 hs-mir-18 287 294  
UAAGGUGCAUCUAGUGCAGAU&UGCAUCCUUCAGCAGUCUCUGAGGGAAUUUCUGGUGCACCUUU  
(((((((((((((((((((((.....&.....)))))))).))))). -23.10  
>ENSMUSG00000038481 hs-mir-18 414 421  
UAAGGUGCAUCUAGUGCAGAU&UACUUCAUGAACUGAUUUAGCAACACCAGUGAAAUGCACCUUU  
(((((((((((((((((((((.....&.....)))))))).))))). -19.10  
mir-18 ENSRNOG00000000583 4096 nt UTR 4 hits 281 408 2374 2501

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

>ENSRNOG00000000583 hs-mir-18 281 288  
UAAGGUGCAUCUAGUGCAGAUAA&UGCAUCCUUCAGCAGUCUCUGGAGGAGUUUCUGGUGCACCUUU  
.(((((((((((((.(.(((.(.((...&.....)))))).).....)))))))). -21.91  
>ENSRNOG00000000583 hs-mir-18 408 415  
UAAGGUGCAUCUAGUGCAGAUAA&UACUUCAUGAACUGAUCUAGCAACACCAGUCAAAUGCACCUUU  
.(((((((((((((.(.(((.(.((...&.....)))))).).....)))))))). -21.71  
>ENSRNOG00000000583 hs-mir-18 2374 2381  
UAAGGUGCAUCUAGUGCAGAUAA&UGCAUCCUUCAGCAGUCUCUGGAGGAGUUUCUGGUGCACCUUU  
.(((((((((((((.(.(((.(.((...&.....)))))).).....)))))))). -21.91  
>ENSRNOG00000000583 hs-mir-18 2501 2508  
UAAGGUGCAUCUAGUGCAGAUAA&UACUUCAUGAACUGAUCUAGCAACACCAGUCAAAUGCACCUUU  
.(((((((((((((.(.(((.(.((...&.....)))))).).....)))))))). -21.71

miRNA: mir-18

Human predicted target: ENSG00000160216  
Mouse predicted target: ENSMUSG00000001211  
Rat predicted target: ENSRNOG00000001205  
Hs Gene description: 1-ACYL-SN-GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE GAMMA  
(EC 2.3.1.51) (1- AGP ACYLTRANSFERASE 3) (1-AGPAT 3) (LYSOPHOSPHATIDIC  
ACID ACYLTRANSFERASE-GAMMA) (LPAAT-GAMMA) (1-ACYLGLYCEROL-3-PHOSPHATE O-  
ACYLTRANSFERASE 3). [Source:SWISSPROT;Acc:Q9NRZ7] NM\_020132  
mir-18 ENSG00000160216 2332 nt UTR 2 hits 482 1896

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

>ENSG00000160216 hs-mir-18 482 489  
UAAGGUGCAUCUAGUGCAGAUAA&CCGGGUCCCGUCCCGGGAGCAUCGCUCGGCUCAGCACCUUGG  
((((((((((.....(.(.(((.(.((...&.....)))))).).....)))))))). -19.60  
>ENSG00000160216 hs-mir-18 1896 1903  
UAAGGUGCAUCUAGUGCAGAUAA&GCGCUCCCGUGGCUGAGACCCAGAGAUUCUCCUGCACCUUC  
.(((((((((((((.(.(((.(.((...&.....)))))).).....)))))))). -21.00  
mir-18 ENSMUSG00000001211 2076 nt UTR 2 hits 473 668

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

>ENSMUSG00000001211 hs-mir-18 473 480  
UAAGGUGCAUCUAGUGCAGAUAA&CCCCUGUCCUGCAGCAUUCUCCGCCUGCUUGGCACCUUAG  
((((((((((.....(.(.((((((&.....)))))).).....)))))))). -20.93  
>ENSMUSG00000001211 hs-mir-18 668 675  
UAAGGUGCAUCUAGUGCAGAUAA&UCUGUUGGCACCGCCUUGCUGGGGGCUGUGUCUAAGCACCUUAA  
(((((((((((((.(.((((((&.....)))))).).....)))))))). -22.52  
mir-18 ENSRNOG00000001205 2140 nt UTR 2 hits 531 699

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

>ENSRNOG00000001205 hs-mir-18 531 538  
UAAGGUGCAUCUAGUGCAGAUAA&UUGUCCACAGCGCUCUUUUGUCCUGCCUGCUUGGCACCUUAG  
((((((((((.....(.(.((((((&.....)))))).).....)))))))). -24.20  
>ENSRNOG00000001205 hs-mir-18 699 706  
UAAGGUGCAUCUAGUGCAGAUAA&CACCGGUGGCACCGCCUUGCUGGGGUUGUGUCUAAGCACCUUAA

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

miRNA: mir-18

Human predicted target: ENSG00000171570

Mouse predicted target: ENSMUSG00000003760

Rat predicted target: ENSRNOG00000020931

Rat predicted target: ENSRNOG00000020947

Hs Gene description: EGL NINE (C.ELEGANS) HOMOLOG 2 ISOFORM 1; EGL NINE (C.ELEGANS) HOMOLOG 2; ESTROGEN-INDUCED TAG 6; PROLYL HYDROXYLASE DOMAIN-CONTAINING PROTEIN 1; HIF-PROLYL HYDROXYLASE 1.

[Source:RefSeq;Acc:NM\_053046] NM\_080732

mir-18 ENSG00000171570 2572 nt UTR 2 hits 459 1760

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

>ENSG00000171570 hs-mir-18 459 466  
UAAGGUGCAUCUAGUGCAGAUAGUGA&GUGAAGUGACUCCCAACCCCUUUGGCCAUGGCAGGCACCUUU  
((((((((((...(((...&.....)))))).....)))))))). -19.00

>ENSG00000171570 hs-mir-18 1760 1767  
UAAGGUGCAUCUAGUGCAGAUAGUGA&GGCGGGCCUCCACCCUACCACAGGGUCCAGCUCCUGCACCUUGG  
((((((((((...(((...((...&.....)))))).....)))))))). -20.80

mir-18 ENSMUSG00000003760 2497 nt UTR 2 hits 1251 1434

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

>ENSMUSG00000003760 hs-mir-18 1251 1258  
UAAGGUGCAUCUAGUGCAGAUAGUGA&CCUUCUCCAGUGCAGAAUCCAGGCUCCAUGUGCACCUUGU  
((((((((((...(((...&.....)))))).....)))))))). -21.30

>ENSMUSG00000003760 hs-mir-18 1434 1441  
UAAGGUGCAUCUAGUGCAGAUAGUGA&CCAGGUCCGACCUACAGUGGCGUCCAGCUCCUCUUGCACCUUGG  
((((((((((...(((...((...&.....)))))).....)))))))). -21.00

mir-18 ENSRNOG00000020931 2450 nt UTR 3 hits 448 1611 1794

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

>ENSRNOG00000020931 hs-mir-18 448 455  
UAAGGUGCAUCUAGUGCAGAUAGUGA&CUGCCAGCCAAGAAUAAAAGUUUACCUCAGAGCUGCACCUUGA  
((((((((((...(((...&.....)))))).....)))))))). -20.81

>ENSRNOG00000020931 hs-mir-18 1611 1618  
UAAGGUGCAUCUAGUGCAGAUAGUGA&CCUUCUCCAGUGCAGAAUCCAGGCUCCUGUGCACCUUGU  
((((((((((...(((...&.....)))))).....)))))))). -21.30

>ENSRNOG00000020931 hs-mir-18 1794 1801  
UAAGGUGCAUCUAGUGCAGAUAGUGA&ACGGGUCCGGCCUACAGUGGCGUCCAGCUCCUCUUGCACCUUGG  
((((((((((...(((...((...&.....)))))).....)))))))). -21.00

mir-18 ENSRNOG00000020947 2423 nt UTR 2 hits 1151 1334

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

>ENSRNOG00000020947 hs-mir-18 1151 1158  
UAAGGUGCAUCUAGUGCAGAUAGUGA&CCUUCUCCAGUGCAGAAUCCAGGCUCCUGUGCACCUUGU  
((((((((((...(((...&.....)))))).....)))))))). -21.30



>ENSRNOG00000020947 hs-mir-18 1334 1341  
UAAGGUGCAUCUAGUGCAGUA&ACGGGUCCGGCCUACAGUGGCGUCCAGCUCCUCUUGCACCUUGG  
((((((((.....(((((.&.....)))))))).)))). -21.00

miRNA: mir-19a

Human predicted target: ENSG00000015171

Mouse predicted target: ENSMUSG00000021156

Rat predicted target: ENSRNOG00000014670

Hs Gene description: ADENOVIRUS 5 E1A-BINDING PROTEIN (BS69 PROTEIN).

[Source:SWISSPROT;Acc:Q15326] NM\_006624

mir-19a ENSG00000015171 2000 nt UTR 3 hits 98 134 722

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

>ENSG00000015171 hs-mir-19a 98 105  
UGUGCAAUCUAUGCAAACUGA&CAAGAAGCCAAAUUGUUAGAAUUGCUUCCCAUUUUGCACC  
.((((((((.....((((((.&.....)))))))).)))). -17.60

>ENSG00000015171 hs-mir-19a 134 141  
UGUGCAAUCUAUGCAAACUGA&UUGCACCAGCCUUUAAACACUUUUCGUGAAGAAUUGCAG  
(((((((((((((.&.....)))))))).)))). -  
17.80

>ENSG00000015171 hs-mir-19a 722 729  
UGUGCAAUCUAUGCAAACUGA&GGAUCUAGAGAAAUGAAUAAUAAUAAAGUUUGCACA  
((((((((.....&.....)))))))). -  
15.10

mir-19a ENSMUSG00000021156 4018 nt UTR 3 hits 76 112 671

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

>ENSMUSG00000021156 hs-mir-19a 76 83  
UGUGCAAUCUAUGCAAACUGA&CAAGAAGCCAAAUUGUUAGAAUUGCUUCCCAUUUUGCACC  
.((((((((.....((((((.&.....)))))))).)))). -17.60

>ENSMUSG00000021156 hs-mir-19a 112 119  
UGUGCAAUCUAUGCAAACUGA&UUGCACCAGCCUUUAAACACUUUUCGUGGUGAAUUGCAG  
(((((((((((((.&.....)))))))).)))). -  
19.20

>ENSMUSG00000021156 hs-mir-19a 671 678  
UGUGCAAUCUAUGCAAACUGA&GAUCUAGAGAAAUGAAUAAUAAUAAAGUUUGCACA  
((((((((.....&.....)))))))). -  
15.10

mir-19a ENSRNOG00000014670 2000 nt UTR 3 hits 77 113 692

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

>ENSRNOG00000014670 hs-mir-19a 77 84  
UGUGCAAUCUAUGCAAACUGA&CAAGAAGCCAAAUUGUUAGAAUUGCUUCCCAUUUUGCACC  
.((((((((.....((((((.&.....)))))))).)))). -17.60

>ENSRNOG00000014670 hs-mir-19a 113 120  
UGUGCAAUCUAUGCAAACUGA&UUGCACCAGCCUUUAAACACUUUUCGUGGUGAAUUGCAG

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

>ENSRNOG00000014670 hs-mir-19a 692 699  
UGUGCAAUCUAUGCAAACUGA&GAUCUUAGAGAAAAUGAAUUAUUAAAUUUAAAGUUUGCACAU  
((((((((((.....&.....)))))))) -  
15.10

miRNA: mir-19a

Human predicted target: ENSG00000061987

Mouse predicted target: ENSMUSG00000034602

Rat predicted target: ENSRNOG00000004185

Hs Gene description: SF21 PROTEIN. [Source:SPTREMBL;Acc:Q8NHE2]

mir-19a ENSG00000061987 6002 nt UTR 2 hits 384 4697

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

>ENSG00000061987 hs-mir-19a 384 391  
UGUGCAAUCUAUGCAAACUGA&UAUUUCAAUUCAGUCAGAUUUUAUUAGUCUGGUGUUUUUGCACC  
((((((((((.....&.....)))))))) -18.10

>ENSG00000061987 hs-mir-19a 4697 4704  
UGUGCAAUCUAUGCAAACUGA&UGGUUCUACCACUACAAAGUGGAAAGUAGAAUACUUUGCACU  
((((((((((.....&.....)))))))) -18.10  
mir-19a ENSMUSG00000034602 2351 nt UTR 2 hits 371 1435

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

>ENSMUSG00000034602 hs-mir-19a 371 378  
UGUGCAAUCUAUGCAAACUGA&AAUGAUUUUCCAUCAGAUUUUUUGAGGCUGGUGUUUUUGCACC  
((((((((((.....&.....)))))))) -18.70

>ENSMUSG00000034602 hs-mir-19a 1435 1442  
UGUGCAAUCUAUGCAAACUGA&AGUUUUGAGGCUAUUUUAAUUAUGUAAUGAUUUAAUUUGCACU  
((((((((((.....&.....)))))))) -16.65  
mir-19a ENSRNOG00000004185 2000 nt UTR 3 hits 361 729 1482

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

>ENSRNOG00000004185 hs-mir-19a 361 368  
UGUGCAAUCUAUGCAAACUGA&AAAGAUUUUCCAUCAGAUUUUUUGAGGCUGGUGUUUUUGCACC  
((((((((((.....&.....)))))))) -18.70

>ENSRNOG00000004185 hs-mir-19a 729 736  
UGUGCAAUCUAUGCAAACUGA&UGUGAGCACAGCAGCAGAAGGUAUGAUUCGCUGACUUUGCACC  
((((((((((.....&.....)))))))) -16.51

>ENSRNOG00000004185 hs-mir-19a 1482 1489  
UGUGCAAUCUAUGCAAACUGA&AGUUUUGAGGCUAUUUUAAUUAUGUGAUGAUUUAAUUUGCACU  
((((((((((.....&.....)))))))) -16.65

miRNA: mir-19a

Human predicted target: ENSG00000066382  
Mouse predicted target: ENSMUSG00000016386  
Rat predicted target: ENSRNOG00000004863  
Hs Gene description: FETAL BRAIN PROTEIN 239 (239FB).  
[Source:SWISSPROT;Acc:Q15777] NM\_001585

mir-19a ENSG00000066382 3244 nt UTR 2 hits 376 1035

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

>ENSG00000066382 hs-mir-19a 376 383  
UGUGCAAUUCUAUGCAAACUGA&UAAGAAACAGGCAGUGUUUAAAAACCAACACAGAUUUGCACAA  
(((((((((((.(.....(((.&.....))))).)))))))). -  
21.97

>ENSG00000066382 hs-mir-19a 1035 1042  
UGUGCAAUUCUAUGCAAACUGA&CAAGUUGUCUUCUACUCCUCUCCCCUCUCCCAUUUUGCACU  
((((((((.....&.....)))))). -13.10  
mir-19a ENSMUSG00000016386 2138 nt UTR 2 hits 436 1086

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

>ENSMUSG00000016386 hs-mir-19a 436 443  
UGUGCAAUUCUAUGCAAACUGA&AAACACAAAAGCAGUGUUUUGAAAAUCACCCAGAUUUGCACAA  
(((((((((((.(.....(((.&.....))))).)))))))). -  
22.34

>ENSMUSG00000016386 hs-mir-19a 1086 1093  
UGUGCAAUUCUAUGCAAACUGA&CCUGUUUUGUCUUCUCACUCCCCUCCCCUCCCAUUUUGCACU  
((((((((.....(((.&.....)))))). -16.11  
mir-19a ENSRNOG00000004863 2000 nt UTR 2 hits 428 1081

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

>ENSRNOG00000004863 hs-mir-19a 428 435  
UGUGCAAUUCUAUGCAAACUGA&AAACACAAAAGCAGUGUUUUGAAAAUCUACCCAGAUUUGCACAA  
(((((((((((.(.....(((.&.....))))).)))))))). -  
22.34

>ENSRNOG00000004863 hs-mir-19a 1081 1088  
UGUGCAAUUCUAUGCAAACUGA&CUGCAUCGUCUUCUCACGCCCGUCCCCUCCCAUUUUGCACU  
(((((((((((.(.....&.....))))). -14.89

miRNA: mir-19a

Human predicted target: ENSG00000069667  
Mouse predicted target: ENSMUSG00000032238  
Rat predicted target: ENSRNOG00000009880  
Hs Gene description: NUCLEAR RECEPTOR ROR-ALPHA (NUCLEAR RECEPTOR RZR-  
ALPHA). [Source:SWISSPROT;Acc:P35398] NM\_134262

mir-19a ENSG00000069667 2191 nt UTR 2 hits 418 663

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

>ENSG00000069667 hs-mir-19a 418 425  
UGUGCAAUUCUAUGCAAACUGA&GUGACUGGUGUGCAUAGCGGAGGUUGCGGCAUACUUUGCACAA

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

>ENSG00000069667 hs-mir-19a 663 670  
UGUGCAAUUCUAUGCAAACUGA&UAGCUUUUCCUGUUGAAUUGAUUAGGCACUUUCAUUUUGCACC  
.((((((((((...(((...(((...&.....))))))...))))))...)))))).. -14.80  
mir-19a ENSMUSG00000032238 2836 nt UTR 2 hits 445 698

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

>ENSMUSG00000032238 hs-mir-19a 445 452  
UGUGCAAUUCUAUGCAAACUGA&GACCCCGGUGUGUAUGGCGGGAGUUGCGGCGUACUUUGCACAG  
((((((((((...(((...(((...&.....))))))...))))))...)))))).. -  
22.50

>ENSMUSG00000032238 hs-mir-19a 698 705  
UGUGCAAUUCUAUGCAAACUGA&GCUUUUCCUGUUGAAUUGAUUAGGCACUUUCCGUUUUUGCACC  
.((((((((((...(((...(((...&.....))))))...))))))...)))))).. -13.60  
mir-19a ENSRNOG00000009880 2000 nt UTR 2 hits 442 696

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

>ENSRNOG00000009880 hs-mir-19a 442 449  
UGUGCAAUUCUAUGCAAACUGA&GACCCCGGUGUGUAUGGCCAGAGUUACGGCGUACUUUGCACAG  
((((((((((...(((...(((...&.....))))))...))))))...)))))).. -  
21.40

>ENSRNOG00000009880 hs-mir-19a 696 703  
UGUGCAAUUCUAUGCAAACUGA&UAGCUUUUCCUGUUGAAUUGAUUAGGCACUUUCCGUUUUGCACC  
.((((((((((...(((...(((...&.....))))))...))))))...)))))).. -15.70

miRNA: mir-19a

Human predicted target: ENSG00000077684

Mouse predicted target: ENSMUSG00000025764

Rat predicted target: ENSRNOG00000014115

Hs Gene description: PHD PROTEIN JADE-1. [Source:RefSeq;Acc:NM\_024900]  
NM\_024900

mir-19a ENSG00000077684 3030 nt UTR 2 hits 1286 2107  
-----1-----

-----1-----

>ENSG00000077684 hs-mir-19a 1286 1293  
UGUGCAAUUCUAUGCAAACUGA&AAAUUUAGCAUUAUUUUGAGUACAAUGUUUUUGUUUUUGCACU  
.((((((((((...(((...(((...&.....))))))...))))))...)))))).. -19.50

>ENSG00000077684 hs-mir-19a 2107 2114  
UGUGCAAUUCUAUGCAAACUGA&AUGACCUCUCACCAUUUUUAAGAGGUUUCAGAUUCAUUUGCACU  
.((((((((((...(((...(((...&.....))))))...))))))...)))))).. -14.60  
mir-19a ENSMUSG00000025764 4109 nt UTR 2 hits 1176 1984

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

>ENSMUSG00000025764 hs-mir-19a 1176 1183  
UGUGCAAUUCUAUGCAAACUGA&AAAUUUAGCAUUAUUUUGAGUUAUUAUGUUCUGUUUUUGCACU

.((((((((.....(((.....&.....)))))).))))). -16.00  
>ENSMUSG00000025764 hs-mir-19a 1984 1991

UGUGCAAUUCUAUGCAAACUGA&AUGGCCUCUCACCAUUUUAGGAGGCACCAGAUUCAUUUGCACU

.(((((((((((.....(((.....&.....)))))).))))). -17.80  
mir-19a ENSRNOG00000014115 2000 nt UTR 2 hits 1164 1970

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

>ENSRNOG00000014115 hs-mir-19a 1164 1171

UGUGCAAUUCUAUGCAAACUGA&AAAUUUAGCAUAAAUUUGAGUAUAAUGUUCUGUUUUUGCACU

.((((((((.....(((.....&.....)))))).))))). -16.00  
>ENSRNOG00000014115 hs-mir-19a 1970 1977

UGUGCAAUUCUAUGCAAACUGA&ACGGCCUCUCACCAUUUUAGGAGGCACCAGAUUCAUUUGCACU

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

miRNA: mir-19a

Human predicted target: ENSG00000081479

Mouse predicted target: ENSMUSG00000027069

Rat predicted target: ENSRNOG00000006837

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&UUGCCAACUCUCUAGGGAAUAAUAGACACUCACUUUUGCACAU

((((((((((.....(((.....&.....)))))).))))). -  
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&UCGCCAGCUCUCUAGGGAAUAAUAGACACUCACUUUUGCACAU

((((((((((((((((.....(((&.....))))).))))).))))). -  
15.06  
>ENSRNOG00000006837 hs-mir-19a 673 680  
UGUGCAAUUCUAUGCAAACUGA&UUGAUUGUGCUUCGUCCCUAGUUGCCAAGUCAACAUUUGCACC  
.((((((((((((((((.....(((&.....))))).))))).))))). -15.80  
>ENSRNOG00000006837 hs-mir-19a 1690 1697  
UGUGCAAUUCUAUGCAAACUGA&GAACAUUCUUGUUUCAGAAAAAGGUGGAGAGUCCCUUUGCACAA  
((((((((((((((((.....(((&.....))))).))))).))))). -  
18.21

miRNA: mir-19a

Human predicted target: ENSG00000106004

Mouse predicted target: ENSMUSG00000038253

Rat predicted target: ENSRNOG00000006466

Hs Gene description: HOMEBOX PROTEIN HOX-A5 (HOX-1C).

[Source:SWISSPROT;Acc:P20719] NM\_019102

mir-19a ENSG00000106004 2458 nt UTR 2 hits 583 1350

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

>ENSG00000106004 hs-mir-19a 583 590  
UGUGCAAUUCUAUGCAAACUGA&CAAGCGGUGUGUCCUGCGUGCCUUUAUAGGACCCUUUGCACGA  
((((((((((((((((.....(((&.....))))).))))).))))). -  
18.12

>ENSG00000106004 hs-mir-19a 1350 1357  
UGUGCAAUUCUAUGCAAACUGA&GAAACUCCUCAGAGCAGCUAAAGCGCAACUAGAGAUUUGCACAU  
((((((((((((((((.....(((&.....))))).))))).))))). -  
22.53

mir-19a ENSMUSG00000038253 2827 nt UTR 2 hits 603 1344

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

>ENSMUSG00000038253 hs-mir-19a 603 610  
UGUGCAAUUCUAUGCAAACUGA&CAAGCGGUGUGUCCUGCGUGCCUUUGUAGGACCCUUUGCACGA  
((((((((((((((((.....&.....))))).))))).))))). -  
18.20

>ENSMUSG00000038253 hs-mir-19a 1344 1351  
UGUGCAAUUCUAUGCAAACUGA&GAAACUCCUCAGAGCAGCUAAAGCCCAACUAGAGAUUUGCACAU  
((((((((((((((((.....(((&.....))))).))))).))))). -  
22.53

mir-19a ENSRNOG00000006466 2000 nt UTR 3 hits 619 1367 1798

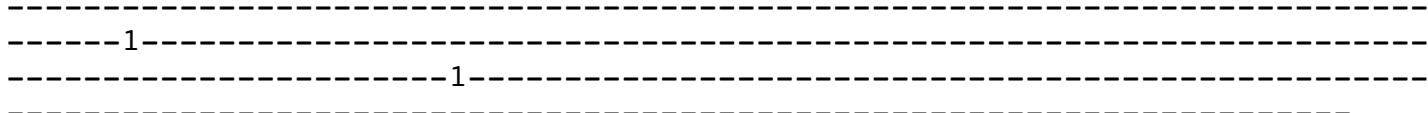
-----1-----1-----1-----  
-----

>ENSRNOG00000006466 hs-mir-19a 619 626  
UGUGCAAUUCUAUGCAAACUGA&CAAGCGGUGUGUCCUGCGUGCCUUUGUAGGACCCUUUGCACGA  
((((((((((((((((.....&.....))))).))))).))))). -  
18.20

>ENSRNOG00000006466 hs-mir-19a 1367 1374  
UGUGCAAUUCUAUGCAAACUGA&GAAACUCCUCAGAGCAGCUAAAGCCCAACUAGAGAUUUGCACAU

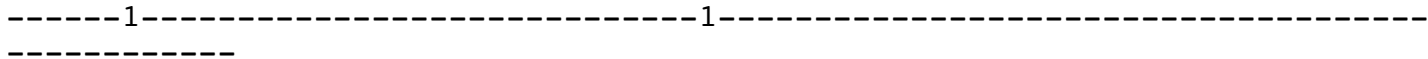
(((((((((((.....(((&.....)))))).....)))))))). -  
22.53  
>ENSRNOG00000006466 hs-mir-19a 1798 1805  
UGUGCAAUUCUAUGCAAACUGA&CCAUGUUAAGGUAAGCUCGCCUCCUCUUGAGUUUAUUUGCACC  
(((((((((((.....(((&.....)))))).....)))))))). -15.60

miRNA: mir-19a  
Human predicted target: ENSG00000107771  
Mouse predicted target: ENSMUSG00000021801  
Rat predicted target: ENSRNOG00000012050  
Hs Gene description: NM\_018999  
mir-19a ENSG00000107771 7285 nt UTR 2 hits 2017 4296



>ENSG00000107771 hs-mir-19a 2017 2024  
UGUGCAAUUCUAUGCAAACUGA&UAAUAUCUGAAGACUGAAUAAUGAACUUGAAACAUUUGCACAA  
(((((((((((.....(((&.....)))))).....)))))))). -  
16.00

>ENSG00000107771 hs-mir-19a 4296 4303  
UGUGCAAUUCUAUGCAAACUGA&CAAGUAAAAUCUGAAUUGAAAGAAAUAUCAGAUUUGCACU  
(((((((((((.....(((&.....)))))).....)))))))). -18.90  
mir-19a ENSMUSG00000021801 2127 nt UTR 2 hits 175 908



>ENSMUSG00000021801 hs-mir-19a 175 182  
UGUGCAAUUCUAUGCAAACUGA&UCUCCAUUUUGUAUCCUGGCUGAAUUAUACCAUUGCACAU  
(((((((((((.....(((&.....)))))).....)))))))). -  
16.90

>ENSMUSG00000021801 hs-mir-19a 908 915  
UGUGCAAUUCUAUGCAAACUGA&UAGUGUCUGAAGACUAGAAUAAUGGACUUGAAUUAUUUGCACAA  
(((((((((((.....(((&.....)))))).....)))))))). -  
16.10

mir-19a ENSRNOG00000012050 2000 nt UTR 2 hits 178 893  
-----1-----1-----  
-----

>ENSRNOG00000012050 hs-mir-19a 178 185  
UGUGCAAUUCUAUGCAAACUGA&UCCUCCAUUUUAUUAUCCUGGUUGAGUUACGUACCGUUUGCACAG  
(((((((((((.....(((&.....)))))).....)))))))). -  
18.10

>ENSRNOG00000012050 hs-mir-19a 893 900  
UGUGCAAUUCUAUGCAAACUGA&UAAUGUCUGAAGACUGAAUAAUGGACUUGAAUUAUUUGCACAA  
(((((((((((.....(((&.....)))))).....)))))))). -  
16.10

miRNA: mir-19a

Human predicted target: ENSG00000111727

Mouse predicted target: ENSMUSG00000020247

Rat predicted target: ENSRNOG00000011072

Hs Gene description: HOST CELL FACTOR 2. [Source:RefSeq;Acc:NM\_013320]  
NM\_013320

mir-19a ENSG00000111727 2000 nt UTR 2 hits 1746 1870

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

>ENSG00000111727 hs-mir-19a 1746 1753  
UGUGCAAUUCUAUGCAAACUGA&AAUUCUAUUGCUUUGCUUUUGGCAUAUGCUUGCUUUUUGCACU  
.((((((((.....((((.....&.....)))))))).))))). -16.60

>ENSG00000111727 hs-mir-19a 1870 1877  
UGUGCAAUUCUAUGCAAACUGA&AUACUUAACCAAAGUUAAAUAUGGUAAGCAAUUUUGCACAU  
((((((((.....((((.....&.....)))))))).))))). -  
17.30

mir-19a ENSMUSG00000020247 4096 nt UTR 2 hits 1576 1693

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

>ENSMUSG00000020247 hs-mir-19a 1576 1583  
UGUGCAAUUCUAUGCAAACUGA&UAAUUUAUGUGCUUUGCUUUUGGCGCUGCUUUUUGCACU  
.((((((((.....((((.....&.....)))))))).))))). -18.70

>ENSMUSG00000020247 hs-mir-19a 1693 1700  
UGUGCAAUUCUAUGCAAACUGA&AAACAUGUCUUAACCAAAGUUACAUGGGAUGCAGAUUUGCACAU  
((((((((.....((((.....&.....)))))))).))))). -  
22.20

mir-19a ENSRNOG00000011072 2181 nt UTR 2 hits 1677 1793

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

>ENSRNOG00000011072 hs-mir-19a 1677 1684  
UGUGCAAUUCUAUGCAAACUGA&UAAUUGGUGUGCUUUGCUUUUGGCGCUGCUUUUUGCACU  
.((((((((.....((((.....&.....)))))))).))))). -19.10

>ENSRNOG00000011072 hs-mir-19a 1793 1800  
UGUGCAAUUCUAUGCAAACUGA&UAAACAUGUCUUAACCAAAGUUACAUGUAUGCAGAUUUGCACAU  
((((((((.....((((.....&.....)))))))).))))). -  
23.90

miRNA: mir-19a

Human predicted target: ENSG00000113300

Mouse predicted target: ENSMUSG00000020362

Rat predicted target: ENSRNOG00000002803

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 UUUAUCUGCUAGACAGGGAUUGGUGUGUUUGCACC  
.(((((((((((((.(.(((.(.((.(.(&.....)))))))).)))))). -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&GCCUUGAAAUAGGAAGAUGUGUGAGCAGUGUGCUGUUUGCACAG  
(((((((((((((.(.(((.(.((.(.(&.....)))))))).)))))). -  
22.10

>ENSMUSG00000020362 hs-mir-19a 607 614

UGUGCAAUUCUAUGCAAACUGA&GGUAACAAAGCUGCAUCCGACUUUCUCUGCAGUGAUUUGCACU  
.(((((((((((((.(.(((.(.((.(.(&.....)))))))).)))))). -22.50

mir-19a ENSRNOG00000002803 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

miRNA: mir-19a  
Human predicted target: ENSG00000123091  
Mouse predicted target: ENSMUSG00000028557  
Rat predicted target: ENSRNOG00000009158  
Hs Gene description: RING FINGER PROTEIN 11 (SID1669) (CGI-123).  
[Source:SWISSPROT;Acc:Q9Y3C5] NM\_014372

mir-19a ENSG00000123091 3934 nt UTR 2 hits 487 1150  
-----1-----1-----

>ENSG00000123091 hs-mir-19a 487 494  
UGUGCAAUUCUAUGCAAACUGA&ACACUGGCACACACAAAAAGUAGUUUUAAGCUUGUUUGCACAG  
(((((((((((((.(.(((.(.((.(.(&.....)))))))).)))))). -  
21.00

>ENSG00000123091 hs-mir-19a 1150 1157

UGUGCAAUUCUAUGCAAACUGA&UAAGCAGGGAGAAUAAAGAUAAUUGUAUUUUAUGUUUUGCACAC  
(((((((((((((.(.(((.(.((.(.(&.....)))))))).)))))). -  
17.60

mir-19a ENSMUSG00000028557 3693 nt UTR 2 hits 483 1116

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

>ENSMUSG00000028557 hs-mir-19a 483 490  
UGUGCAAUUCUAUGCAAACUGA&GGCACAAAAAUAAGCUUGUUUGCACAG  
((((((((.....(((((((((&.....)))))))).)))).)))). -  
21.00

>ENSMUSG00000028557 hs-mir-19a 1116 1123  
UGUGCAAUUCUAUGCAAACUGA&CUAGGUGACUGACAGGAGAGGCAAAUGUGUUAUGUUUGCACAC  
((((((((.....((.....(((&.....))))).)))).)))). -  
17.60

mir-19a ENSRNOG00000009158 2000 nt UTR 2 hits 479 1106

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

>ENSRNOG00000009158 hs-mir-19a 479 486  
UGUGCAAUUCUAUGCAAACUGA&UAUAACACUGGCACAAAAAGUAGUUUAAGCUUGUUUGCACAG  
((((((((.....(((((((((&.....)))))))).)))).)))). -  
21.00

>ENSRNOG00000009158 hs-mir-19a 1106 1113  
UGUGCAAUUCUAUGCAAACUGA&AAGUGACUGACAGGACAGGUAAAUGUGUUUCAUGUUUGCACAC  
((((((((.....((.....(((&.....))))).)))).)))). -  
18.00

miRNA: mir-19a

Human predicted target: ENSG00000137843

Mouse predicted target: ENSMUSG00000006252

Rat predicted target: ENSRNOG00000007925

Hs Gene description: SERINE/THREONINE-PROTEIN KINASE PAK 6 (EC 2.7.1.-)  
(P21-ACTIVATED KINASE 6) (PAK-6) (PAK-5). [Source:SWISSPROT;Acc:Q9NQ5]  
NM\_020168

mir-19a ENSG00000137843 3392 nt UTR 3 hits 239 1349 2963

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

>ENSG00000137843 hs-mir-19a 239 246  
UGUGCAAUUCUAUGCAAACUGA&AUGGAGACCCCUUUCUACAGGAUGACCCCUUGAUUUUGCACAG  
((((((((.....&.....)))))))). -  
14.90

>ENSG00000137843 hs-mir-19a 1349 1356  
UGUGCAAUUCUAUGCAAACUGA&ACAAAAGCAUCUCCCUAGAAAUUUUUGUGAAUUGUUUGCACU  
((((((((.....((((((((&.....)))))))).)))). -17.40

>ENSG00000137843 hs-mir-19a 2963 2970  
UGUGCAAUUCUAUGCAAACUGA&GAGUACAUAAGCAAGCAAGGGUCAGAAAGCAGCAGUUUGCACU  
((((((((.....((.....(((&.....))))).)))).)))). -21.00

mir-19a ENSMUSG00000006252 2000 nt UTR 2 hits 286 1439

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

>ENSMUSG00000006252 hs-mir-19a 286 293  
UGUGCAAUUCUAUGCAAACUGA&ACAGUGACCCCUUCUGCAGGUUUGGCCCUUGUUAUUUGCACAG

((((((((((.....(((((.....&.....)))))).)).....)))))))). -  
18.60  
>ENSMUSG00000006252 hs-mir-19a 1439 1446  
UGUGCAAUAUCUAUGCAAACUGA&CAAAGCAUCCUCCUAGACAUUUUUGUGACUUGUUUGCACU  
((((((((((.....(((((.....&.....)))))).)).....)))))))). -19.20  
mir-19a ENSRNOG00000007925 2000 nt UTR 2 hits 255 1438  
-----1-----1-----

>ENSRNOG00000007925 hs-mir-19a 255 262  
UGUGCAAUAUCUAUGCAAACUGA&ACAGUGACCCUUCUGCAGGUUUGGCCUUGUUAUUUGCACAG  
((((((((((.....(((((.....&.....)))))).)).....)))))))). -  
18.60  
>ENSRNOG00000007925 hs-mir-19a 1438 1445  
UGUGCAAUAUCUAUGCAAACUGA&CAAAGCAUCCUCCUAGAAAUUUUGUGACUUGUUUGCACU  
((((((((((.....(((((.....&.....)))))).)).....)))))))). -17.40

miRNA: mir-19a  
Human predicted target: ENSG00000146674  
Mouse predicted target: ENSMUSG00000020427  
Rat predicted target: ENSRNOG00000008645  
Hs Gene description: INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 3  
PRECURSOR (IGFBP-3) (IBP-3) (IGF-BINDING PROTEIN 3).  
[Source:SWISSPROT;Acc:P17936] NM\_000598  
mir-19a ENSG00000146674 3500 nt UTR 2 hits 43 2498  
-1-----1-----

>ENSG00000146674 hs-mir-19a 43 50  
UGUGCAAUAUCUAUGCAAACUGA&CCGCAAGGUUAAUGUGGAGCUCAAUAUGCCUUAUUUUGCACAA  
((((((((((.....(((((.....&.....)))))).)).....)))))))). -  
17.40  
>ENSG00000146674 hs-mir-19a 2498 2505  
UGUGCAAUAUCUAUGCAAACUGA&UGUUUAGUAAUGUGGAGCUCAAUAUGCCUUAUUUUGCACAA  
((((((((((.....(((((.....&.....)))))).)).....)))))))). -  
17.62  
mir-19a ENSMUSG00000020427 3414 nt UTR 2 hits 42 2304  
-1-----1-----

>ENSMUSG00000020427 hs-mir-19a 42 49  
UGUGCAAUAUCUAUGCAAACUGA&CGUGCCACAUAUAUGGAGCUCAAUAUGCCUUAUUUUGCACAA  
((((((((((.....(((((.....&.....)))))).)).....)))))))). -  
17.40  
>ENSMUSG00000020427 hs-mir-19a 2304 2311  
UGUGCAAUAUCUAUGCAAACUGA&CCUUUAGAUAAUAUGGAGCUCAAUAUGCCUUAUUUUGCACAA  
((((((((((.....(((((.....&.....)))))).)).....)))))))). -  
17.40  
mir-19a ENSRNOG00000008645 3446 nt UTR 2 hits 67 2387

--1-----  
-----1-----  
>ENSRNOG00000008645 hs-mir-19a 67 74  
UGUGCAAUUCUAUGCAAACUGA&UGUGCCACUUAACGUGGAGCUCAAUACGCCUUAUUUUGCACAA  
((((((((((((((((.....&.....)))))).....)))))))). -  
16.72  
>ENSRNOG00000008645 hs-mir-19a 2387 2394  
UGUGCAAUUCUAUGCAAACUGA&CCCUUUAGUUAACGUGGAGCUCAAUACGCCUUAUUUUGCACAA  
((((((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -  
20.02

miRNA: mir-19a  
Human predicted target: ENSG00000147642  
Mouse predicted target: ENSMUSG00000022340  
Rat predicted target: ENSRNOG00000004200  
Hs Gene description: NM\_017786

mir-19a ENSG00000147642 2720 nt UTR 2 hits 119 298  
----1-----1-----

>ENSG00000147642 hs-mir-19a 119 126  
UGUGCAAUUCUAUGCAAACUGA&GUCUCUAUUCUGUCGUUUUGCUCUCCUUGGUAUUUGAUUUGCACU  
((((((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -22.86

>ENSG00000147642 hs-mir-19a 298 305  
UGUGCAAUUCUAUGCAAACUGA&UUCUUAUCCUAGUGGUUCAGGAAGAGAAAACGCAGUUUGCACU  
((((((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -16.96  
mir-19a ENSMUSG00000022340 2000 nt UTR 3 hits 110 288 1171  
----1-----1-----1-----

>ENSMUSG00000022340 hs-mir-19a 110 117  
UGUGCAAUUCUAUGCAAACUGA&UCUCUAUUCUGUCAGUUUUGCUCUUCUCGCUAUUUGAUUUGCACU  
((((((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -28.46

>ENSMUSG00000022340 hs-mir-19a 288 295  
UGUGCAAUUCUAUGCAAACUGA&UUCUUAUACUAAUGGUUCAGGAAGAGAAAUGCCGUUUGCACU  
((((((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -16.62

>ENSMUSG00000022340 hs-mir-19a 1171 1178  
UGUGCAAUUCUAUGCAAACUGA&AAGGCAUGCAGCUGCUUGCACACACAAUCAGCAGUUUGCACU  
((((((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -17.03  
mir-19a ENSRNOG00000004200 2000 nt UTR 2 hits 112 290  
----1-----1-----

>ENSRNOG00000004200 hs-mir-19a 112 119  
UGUGCAAUUCUAUGCAAACUGA&AGUCUCUAUUGUCAUUUUUGCUCUCCUUGCUAUUUGAUUUGCACU  
((((((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -22.46

>ENSRNOG00000004200 hs-mir-19a 290 297  
UGUGCAAUUCUAUGCAAACUGA&UUCUUAUACUAAUGGUUCAGAAAGAGAAAUGCAGUUUGCACU  
((((((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -17.42

miRNA: mir-19a

Human predicted target: ENSG00000153250

Mouse predicted target: ENSMUSG00000026970

Rat predicted target: ENSRNOG00000008482

Hs Gene description: SINGLE-STRANDED DNA-BINDING PROTEIN MSSP-1 (RNA BINDING MOTIF, SINGLE- STRANDED INTERACTING PROTEIN 1).

[Source:SWISSPROT;Acc:P29558]

mir-19a ENSG00000153250 2773 nt UTR 2 hits 103 1734

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

>ENSG00000153250 hs-mir-19a 103 110
UGUGCAAUCUAUGCAAACUGA&UCUGAUCAAUUGUGCUUUAGGAAUUAUUGACAGUUUUGCACAG
(((((((((((((((((&.....)))))).)))).)))).)))). -
17.93

>ENSG00000153250 hs-mir-19a 1734 1741
UGUGCAAUCUAUGCAAACUGA&UCUGAUCAAUUGUGCUUUAGGAAUUAUUGACAGUUUUGCACAG
(((((((((((((((((&.....)))))).)))).)))).)))). -
17.93

mir-19a ENSMUSG00000026970 2308 nt UTR 2 hits 103 1151

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

>ENSMUSG00000026970 hs-mir-19a 103 110
UGUGCAAUCUAUGCAAACUGA&UCUGAUCAAUUGUGCUUUAGGAAUUAUUGACAGUUUUGCACAG
(((((((((((((((((&.....)))))).)))).)))).)))). -
17.93

>ENSMUSG00000026970 hs-mir-19a 1151 1158
UGUGCAAUCUAUGCAAACUGA&UCUGAUCAAUUGUGCUUUAGGAAUUAUUGACAGUUUUGCACAG
(((((((((((((((((&.....)))))).)))).)))).)))). -
17.93

mir-19a ENSRNOG00000008482 2321 nt UTR 2 hits 107 1136

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

>ENSRNOG00000008482 hs-mir-19a 107 114
UGUGCAAUCUAUGCAAACUGA&UCUGAUCAAUUGUGCUUUAGGAAUUAUUGACAGUUUUGCACAG
(((((((((((((((((&.....)))))).)))).)))).)))). -
17.93

>ENSRNOG00000008482 hs-mir-19a 1136 1143
UGUGCAAUCUAUGCAAACUGA&UCUGAUCAAUUGUGCUUUAGGAAUUAUUGACAGUUUUGCACAG
(((((((((((((((((&.....)))))).)))).)))).)))). -
17.93

miRNA: mir-19a

Human predicted target: ENSG00000154359

Mouse predicted target: ENSMUSG00000039633

Rat predicted target: ENSRNOG00000011349

Hs Gene description: NM\_152271

mir-19a ENSG00000154359 3190 nt UTR 2 hits 70 506  
--1-----1-----

>ENSG00000154359 hs-mir-19a 70 77  
UGUGCAAUUCUAUGCAAACUGA&AUCUGGCUGCAUUGAUGGCCAGAUUGUCUGCCUUUGCACAU  
((((((((((..((..(((..(((..&.....))))))..))..))))..)))).. -  
18.30

>ENSG00000154359 hs-mir-19a 506 513  
UGUGCAAUUCUAUGCAAACUGA&AAUUUGCCUCAGAUUAUUCUGUCCUAAUGCUUAUAUUUGCACAA  
((((((((((..((..(((..(((..&.....))))..))..))))..)))).. -  
19.70

mir-19a ENSMUSG00000039633 2000 nt UTR 2 hits 121 702  
----1-----1-----

>ENSMUSG00000039633 hs-mir-19a 121 128  
UGUGCAAUUCUAUGCAAACUGA&CUGGCUCAGUUGACAGCCGGAUUGCCCGCUGCCUUUUGCACAC  
((((((((((..((..(((..(((..&.....))))..))..))))..)))).. -  
18.51

>ENSMUSG00000039633 hs-mir-19a 702 709  
UGUGCAAUUCUAUGCAAACUGA&UGACUUUGCCUCAGAUUAUUCUCCCAUGCUUCUCUUUGCACAA  
((((((((((.....(((..(((..(((..&.....))))..))..))))..)))).. -  
17.60

mir-19a ENSRNOG00000011349 2000 nt UTR 2 hits 117 649  
----1-----1-----

>ENSRNOG00000011349 hs-mir-19a 117 124  
UGUGCAAUUCUAUGCAAACUGA&GAUCUGGCUCUUGAUGGCCGGAUUGCCCGCUGCCUUUUGCACAC  
((((((((((.....(((..(((..(((..&.....))))..))..))))..)))).. -  
16.82

>ENSRNOG00000011349 hs-mir-19a 649 656  
UGUGCAAUUCUAUGCAAACUGA&AAUUUGCCUCAGAUUAUUCUCCUGAUGCUUCUAUUUGCACAA  
((((((((((.....(((..(((..(((..&.....))))..))..))))..)))).. -  
18.70

miRNA: mir-19a  
Human predicted target: ENSG00000157851  
Mouse predicted target: ENSMUSG00000029168  
Rat predicted target: ENSRNOG00000008996  
Hs Gene description: DIHYDROPYRIMIDINASE RELATED PROTEIN-5 (DRP-5) (ULIP6  
PROTEIN) (COLLAPSIN RESPONSE MEDIATOR PROTEIN-5) (CRMP-5).  
[Source:SWISSPROT;Acc:Q9BPU6]

mir-19a ENSG00000157851 3205 nt UTR 2 hits 681 2181  
-----1-----

>ENSG00000157851 hs-mir-19a 681 688  
UGUGCAAUUCUAUGCAAACUGA&CGAGGCUGGUGCCAGGCGGUGUAAAUGGUUUUGUUUUGCACGU

((((((((.....((((((((...&.....)))))))))))))))). -  
20.10

>ENSG00000157851 hs-mir-19a 2181 2188  
UGUGCAAUUCUAUGCAAACUGA&GAAGACUUACUUCCUGGUAGGCAGCCUGCUUUGUUUUGCACAG  
((((((((.....((((((((...&.....)))))))))))))))). -  
20.40

mir-19a ENSMUSG00000029168 4649 nt UTR 2 hits 711 1773  
-----1-----1-----  
-----

>ENSMUSG00000029168 hs-mir-19a 711 718  
UGUGCAAUUCUAUGCAAACUGA&UGUGGCUGGUGCCAGGCGCGUGUAAAUGGUUUUGUUUUGCACGU  
((((((((.....((((((((...&.....)))))))))))))))). -  
20.10

>ENSMUSG00000029168 hs-mir-19a 1773 1780  
UGUGCAAUUCUAUGCAAACUGA&GAGUGCUUUCUCCUGGGGCGUGUUCUGCUUUGCACAA  
((((((((.....((((((((...&.....)))))))))))))))). -  
20.40

mir-19a ENSRNOG00000008996 5030 nt UTR 2 hits 699 1761  
-----1-----1-----  
-----

>ENSRNOG00000008996 hs-mir-19a 699 706  
UGUGCAAUUCUAUGCAAACUGA&UGCGGCUGGUGCCAGGCGCGUGUAAAUGGUUUUGUUUUGCACGU  
((((((((.....((((((((...&.....)))))))))))))))). -  
20.10

>ENSRNOG00000008996 hs-mir-19a 1761 1768  
UGUGCAAUUCUAUGCAAACUGA&AGAAUACUUUCUCCUGGGGCACGUUCUGCCUUGCUUUGCACAA  
((((((((.....((((((((...&.....)))))))))))))))). -  
20.20

miRNA: mir-19a  
Human predicted target: ENSG00000163624  
Mouse predicted target: ENSMUSG00000029330  
Rat predicted target: ENSRNOG00000002142  
Hs Gene description: PHOSPHATIDATE CYTIDYLYLTRANSFERASE 1 (EC 2.7.7.41)  
(CDP-DIGLYCERIDE SYNTHETASE 1) (CDP-DIGLYCERIDE PYROPHOSPHORYLASE 1) (CDP-  
DIACYLGLYCEROL SYNTHASE 1) (CDS 1) (CTP:PHOSPHATIDATE CYTIDYLYLTRANSFERASE  
1) (CDP-DAG SYNTHASE 1) (CDP-DG SYNTHETASE 1).  
[Source:SWISSPROT;Acc:Q92903] NM\_001263  
mir-19a ENSG00000163624 2505 nt UTR 3 hits 346 364 2201  
-----11-----  
-----1-----

>ENSG00000163624 hs-mir-19a 346 353  
UGUGCAAUUCUAUGCAAACUGA&ACGAUGUUUAAGAUUGCACCUGGCAGUGUGCCUUUUUGCACAA  
((((((((.....((((((((...&.....)))))))))))))))). -  
20.70

>ENSG00000163624 hs-mir-19a 364 371  
UGUGCAAUUCUAUGCAAACUGA&ACCUGGCAGUGGCCUUUUUGCACAAUUAUUACUUUUGCACU  
.(((((((.....&.....)))))).....)))). -18.51  
>ENSG00000163624 hs-mir-19a 2201 2208  
UGUGCAAUUCUAUGCAAACUGA&AUUGCCAUAACCCUGACUUGGCUCAUUUUGAUUUUGCACU  
.(((((((.....&.....)))))).....)))). -16.80  
mir-19a ENSMUSG00000029330 4294 nt UTR 2 hits 1844 2076

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

>ENSMUSG00000029330 hs-mir-19a 1844 1851  
UGUGCAAUUCUAUGCAAACUGA&CAACCACCGUGAGAGCGACUGUGACCAGCGUCCAUUUGCACU  
.(((((((.....&.....)))))).....)))). -19.00  
>ENSMUSG00000029330 hs-mir-19a 2076 2083  
UGUGCAAUUCUAUGCAAACUGA&UGUCCGAGAUUAAAGGCUGCCCCACUUUUGUCCCUUUGCACU  
.(((((((.....&.....)))))).....)))). -17.20  
mir-19a ENSRNOG00000002142 4342 nt UTR 3 hits 368 2022 2191

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

>ENSRNOG00000002142 hs-mir-19a 368 375  
UGUGCAAUUCUAUGCAAACUGA&GCCUGGCAGUGUGAUCCUUCUCACAAACACUGACCUUUGCACU  
.(((((((.....&.....)))))).....)))). -14.40  
>ENSRNOG00000002142 hs-mir-19a 2022 2029  
UGUGCAAUUCUAUGCAAACUGA&GCAAUCAUCCUAAGAGCCAUGUGAUGAGCGCUACAUUUGCACU  
.(((((((.....&.....)))))).....)))). -17.80  
>ENSRNOG00000002142 hs-mir-19a 2191 2198  
UGUGCAAUUCUAUGCAAACUGA&GAGAAUGGGGCGUUCUCCCAGCCUCCUUGUGGGUUUGCACAG  
((((((((.....&.....)))))))). -  
22.44

miRNA: mir-19a  
Human predicted target: ENSG00000169057  
Mouse predicted target: ENSMUSG00000031393  
Rat predicted target: ENSRNOG00000019947  
Hs Gene description: METHYL-CPG-BINDING PROTEIN 2 (MECP-2 PROTEIN)  
(MECP2). [Source:SWISSPROT;Acc:P51608] NM\_004992  
mir-19a ENSG00000169057 10554 nt UTR 4 hits 239 975 5757 8723  
-----  
-----1-----1-----  
-----  
-----1-----1-----  
-----  
-----1-----1-----

>ENSG00000169057 hs-mir-19a 239 246  
UGUGCAAUUCUAUGCAAACUGA&GUCAGGUUGAAGACCUAACCAGGGCCAGAAGUAGCUUUGCACU  
.(((((((.....&.....)))))).....)))). -19.90



```

>ENSG00000169057 hs-mir-19a      975      982
UGUGCAAUUCUAUGCAAACUGA&CUUUCCAAUUCUCCUUUAGGGACAGCUUAGAAUUAUUUGCACU
.(((((((((((.....(((&.....)))))).....)))))))). -17.80
>ENSG00000169057 hs-mir-19a    5757     5764
UGUGCAAUUCUAUGCAAACUGA&UGCCAGGUGAAGGAGGCUCCAGGCAGCACCCAGGUUUUGCACU
.(((((((((((.....((.&.....)))))).....)))))))). -19.40
>ENSG00000169057 hs-mir-19a    8723     8730
UGUGCAAUUCUAUGCAAACUGA&CAAAGAAUACUCAGCAUGCCUUUCUAAGUGACGCGUUUGCACC
.(((((((((((.....((...(((&.....)))))).....)))))))). -15.61
mir-19a      ENSMUSG00000031393    10591 nt UTR      4 hits 238 946 5093 8754
-----1-----1-----
-----1-----
-----1-----
-----1-----
>ENSMUSG00000031393 hs-mir-19a    238      245
UGUGCAAUUCUAUGCAAACUGA&GUCAGGUUGAAGACCUAACCAGGGCCAGAAGUAGCUUUGCACU
.(((((((((((.....((.&.....)))))).....)))))))). -19.90
>ENSMUSG00000031393 hs-mir-19a    946      953
UGUGCAAUUCUAUGCAAACUGA&CUUUCAGUUCUCCUUUAGGGACAGCUUAGAAUUAUUUGCACU
.(((((((((((.....(((&.....)))))).....)))))))). -17.80
>ENSMUSG00000031393 hs-mir-19a    5093     5100
UGUGCAAUUCUAUGCAAACUGA&AAAAAGGCUCUGGGAGGAAAGACAGCCUCCUAGGCUUUGCACAA
(((((((((((.....((.&.....)))))).....)))))))). -
17.90
>ENSMUSG00000031393 hs-mir-19a    8754     8761
UGUGCAAUUCUAUGCAAACUGA&CAAAGAAUACUCAGCAUGCCUUUCUAAGUGAUGCGUUUGCACC
.(((((((((((.....((..((.&.....)))))).....)))))))). -18.30
mir-19a      ENSRNOG00000019947    2028 nt UTR      2 hits 241 951
-----1-----1-----
-----
>ENSRNOG00000019947 hs-mir-19a    241      248
UGUGCAAUUCUAUGCAAACUGA&GUCAGGUUGAAGACCUAACCAGGGCCAGAAGUAGCUUUGCACU
.(((((((((((.....((.&.....)))))).....)))))))). -19.90
>ENSRNOG00000019947 hs-mir-19a    951      958
UGUGCAAUUCUAUGCAAACUGA&CUUUCAGUUCUCCUUUAGGGACAGCUUAGAAUUAUUUGCACU
.(((((((((((.....(((&.....)))))).....)))))))). -17.80

```

```

miRNA: mir-19a
Human predicted target: ENSG00000171862
Mouse predicted target: ENSMUSG00000013663
Rat predicted target: ENSRNOG00000020723
Hs Gene description: PHOSPHATIDYLINOSITOL-3,4,5-TRISPHOSPHATE 3-
PHOSPHATASE PTEN (EC 3.1.3.67) (MUTATED IN MULTIPLE ADVANCED CANCERS 1).
[Source:SWISSPROT;Acc:O00633] NM_000314
mir-19a      ENSG00000171862    2904 nt UTR      3 hits 411 1221 2252

```

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

>ENSG00000171862 hs-mir-19a 411 418  
UGUGCAAUUCUAUGCAAACUGA&AGAGCUUUGUGAUUAUCUGGUUCACAUCUACCCCUUUGCACU  
.(((((((.....&.....)))))). -13.00

>ENSG00000171862 hs-mir-19a 1221 1228  
UGUGCAAUUCUAUGCAAACUGA&GACCUUACACAUCUAUUACAAUGAAUUUUGCAGUUUUGCACAU  
(((((((.....(((((((.....&.....)))))).)))))). -  
21.80

>ENSG00000171862 hs-mir-19a 2252 2259  
UGUGCAAUUCUAUGCAAACUGA&GGGCCAGGUCAUAAAUAUUAUGACAUUAUUAUGGGCUUUUGCACU  
.((((((((((.....&.....)))))).))))). -15.20  
mir-19a ENSMUSG00000013663 2073 nt UTR 2 hits 425 1236

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

>ENSMUSG00000013663 hs-mir-19a 425 432  
UGUGCAAUUCUAUGCAAACUGA&GAAGAGCUCUGAUUCCCGGUUCACGUCCUACCCCUUUGCACU  
.(((((((.....&.....)))))). -13.00

>ENSMUSG00000013663 hs-mir-19a 1236 1243  
UGUGCAAUUCUAUGCAAACUGA&GACCUUACACAUCUAUUACAAUGAGUUUUGCAGUUUUGCACAU  
(((((((.....(((((((.....&.....)))))).)))))). -  
26.00

mir-19a ENSRNOG00000020723 3882 nt UTR 2 hits 1184 2564

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

>ENSRNOG00000020723 hs-mir-19a 1184 1191  
UGUGCAAUUCUAUGCAAACUGA&GACCUUACACAUCUAUUACAAUGAGUUUUGCAGUUUUGCACAU  
(((((((.....(((((((.....&.....)))))).)))))). -  
26.00

>ENSRNOG00000020723 hs-mir-19a 2564 2571  
UGUGCAAUUCUAUGCAAACUGA&GACCUUACACAUCUAUUACAAUGAGUUUUGCAGUUUUGCACAU  
(((((((.....(((((((.....&.....)))))).)))))). -  
26.00

miRNA: mir-19a  
Human predicted target: ENSG00000176842  
Mouse predicted target: ENSMUSG00000031737  
Rat predicted target: ENSRNOG00000011180  
Hs Gene description: IROQUOIS-CLASS HOMEODOMAIN PROTEIN IRX-5 (IROQUOIS  
HOMEODOMAIN PROTEIN 5) (IRX-2A). [Source:SWISSPROT;Acc:P78411] NM\_005853  
mir-19a ENSG00000176842 2196 nt UTR 2 hits 1663 1820

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

>ENSG00000176842 hs-mir-19a 1663 1670  
UGUGCAAUUCUAUGCAAACUGA&GGGUUCGGGCUUGGCUGCGGUGCUGGCGGCUCUACUUUUGCACC  
.(((((((.....(((((((.....&.....)))))).)))))). -19.30

```

>ENSG00000176842 hs-mir-19a 1820 1827
UGUGCAAUUCUAUGCAAACUGA&AUUAAACCCAAGCCUGAGUGUAGAGAGGGAAUGUGUUUGCACAU
((((((((((((((((.....&.....)))))).....)))))))). -
18.60
mir-19a ENSMUSG00000031737 2198 nt UTR 2 hits 1696 1839
-----1-----
1-----
>ENSMUSG00000031737 hs-mir-19a 1696 1703
UGUGCAAUUCUAUGCAAACUGA&GAGUUCAGGCUUAGUUACCCUGCUUGCGGCUCCAUUUUGCACC
.((((((((.....(((((((((&.....)))))).....)))))).....)))))). -18.01
>ENSMUSG00000031737 hs-mir-19a 1839 1846
UGUGCAAUUCUAUGCAAACUGA&AGGAAUUAUUUUGACUGACUGUAGGGACAGAACUGUUUGCACAC
((((((((((((((((.....&.....)))))).....)))))).....)))))). -
16.30
mir-19a ENSRNOG00000011180 2000 nt UTR 3 hits 1693 1830 1876
-----1-----
1-1----
>ENSRNOG00000011180 hs-mir-19a 1693 1700
UGUGCAAUUCUAUGCAAACUGA&AAGUUCAGGCUUAGCUACCCUGCUCGCAUCUCCAUUUUGCACC
.((((((((.....(((((((((&.....)))))).....)))))).....)))))). -15.91
>ENSRNOG00000011180 hs-mir-19a 1830 1837
UGUGCAAUUCUAUGCAAACUGA&GGGAAUUAUUUUGCCUGUCUGUAGGGACAGAACUGUUUGCACAC
((((((((((((((((.....&.....)))))).....)))))).....)))))). -
17.50
>ENSRNOG00000011180 hs-mir-19a 1876 1883
UGUGCAAUUCUAUGCAAACUGA&CGGCAACAUAUUUACGCUAACGCAGAAUGUACAUGUUUGCACC
.((((((((.....(((((((((&.....)))))).....)))))).....)))))). -18.50

```

```

miRNA: mir-19a
Human predicted target: ENSG00000182255
Mouse predicted target: ENSMUSG00000042604
Rat predicted target: ENSRNOG00000004918
Hs Gene description: POTASSIUM VOLTAGE-GATED CHANNEL SUBFAMILY A MEMBER 4
(POTASSIUM CHANNEL KV1.4) (HK1) (HPCN2) (HBK4) (HUKII).
[Source:SWISSPROT;Acc:P22459] NM_002233
mir-19a ENSG00000182255 2499 nt UTR 2 hits 243 744
-----1-----1-----
-----
>ENSG00000182255 hs-mir-19a 243 250
UGUGCAAUUCUAUGCAAACUGA&AAUCUAUCUUUAUUAUUUUUAUUAGAAUGCAAGAAUUUUGCACAU
((((((((((((((((.....&.....)))))).....)))))).....)))))). -
20.40
>ENSG00000182255 hs-mir-19a 744 751
UGUGCAAUUCUAUGCAAACUGA&UUUGUUUGCAGGUAACAGGACUGGAUUUUUUUUUCUUUGCACU
.((((((((((((((((.....&.....)))))).....)))))).....)))))). -16.30
mir-19a ENSMUSG00000042604 2000 nt UTR 2 hits 245 750

```

-----1-----1-----1-----  
-----  
>ENSMUSG00000042604 hs-mir-19a 245 252  
UGUGCAAUUCUAUGCAAACUGA&AUCUAUCUUUAUAUUUUUAAUAGAAUGCAAGAAUUUUGCACAU  
(((((((((((.(.(((.(.(&.....))))).)))))..))))). -  
19.90  
>ENSMUSG00000042604 hs-mir-19a 750 757  
UGUGCAAUUCUAUGCAAACUGA&UUGUUCACAGGUCUAAAACUGGAUUUUUUUUUCUUUUGCACU  
.((((((((((((.(.(((.(.(&.....))))).)))))..))))). -13.93  
mir-19a ENSRNOG0000004918 3088 nt UTR 2 hits 241 742  
-----1-----1-----1-----

-----  
>ENSRNOG0000004918 hs-mir-19a 241 248  
UGUGCAAUUCUAUGCAAACUGA&AUCUAUCUUUAUAUUUUUAAUAGAAUGCAAGAAUUUUGCACAU  
(((((((((((.(.(((.(.(&.....))))).)))))..))))). -  
19.90  
>ENSRNOG0000004918 hs-mir-19a 742 749  
UGUGCAAUUCUAUGCAAACUGA&UGUUCACAGGUCUUAAGACUGGAUUUUUUUUUCUUUUGCACU  
.((((((((((((.(.(((.(.(&.....))))).)))))..))))). -13.10

miRNA: mir-19b  
Human predicted target: ENSG00000015171  
Mouse predicted target: ENSMUSG00000021156  
Rat predicted target: ENSRNOG00000014670  
Hs Gene description: ADENOVIRUS 5 E1A-BINDING PROTEIN (BS69 PROTEIN).  
[Source:SWISSPROT;Acc:Q15326] NM\_006624  
mir-19b ENSG00000015171 2000 nt UTR 3 hits 98 134 722  
---1-1-----1-----1-----1-----

-----  
>ENSG00000015171 hs-mir-19b 98 105  
UGUGCAAUUCUAUGCAAACUGA&CAAGAAGCCAAAUAUGUUUAGAAUUUGCUUCCCAUUUUGCACC  
.((((((((((((.(.(((.(.(&.....))))).)))))..))))). -17.60  
>ENSG00000015171 hs-mir-19b 134 141  
UGUGCAAUUCUAUGCAAACUGA&UUGCACCAGCCUUUAAACACUUUUCGUGAAGAAUUUUGCACAG  
(((((((((((.(.(((.(.(&.....))))).)))))..))))). -  
17.60  
>ENSG00000015171 hs-mir-19b 722 729  
UGUGCAAUUCUAUGCAAACUGA&GGAUCUUAGAGAAAUGAAUUAUUUAAAUUUAAAGUUUGCACAU  
(((((((((((.(.(((.(.(&.....))))).)))))..))))). -  
15.10  
mir-19b ENSMUSG00000021156 4018 nt UTR 3 hits 76 112 671  
---11-----1-----1-----1-----

-----  
>ENSMUSG00000021156 hs-mir-19b 76 83  
UGUGCAAUUCUAUGCAAACUGA&CAAGAAGCCAAAUAUGUUUAGAAUUUGCUUCCCAUUUUGCACC  
.((((((((((((.(.(((.(.(&.....))))).)))))..))))). -17.60

```

>ENSMUSG00000021156 hs-mir-19b      112      119
UGUGCAAUCCAUGCAAACUGA&UUGCACCAGCCUUUAAACACUUUUCGUGGUGAAUUUUUGCACAG
(((((((((((((.((((.((((.((&.....)))))))))).....)))))))). -
21.50
>ENSMUSG00000021156 hs-mir-19b      671      678
UGUGCAAUCCAUGCAAACUGA&GAUCUUAGAGAAAAAUGAAUAAUUUAAAUUUAAAGUUUGCACAU
(((((((((((((.(.....&.....)))))))))))). -
15.10
mir-19b      ENSRNOG00000014670      2000 nt UTR      3 hits 77 113 692
---11-----1-----1-----
-----
>ENSRNOG00000014670 hs-mir-19b      77      84
UGUGCAAUCCAUGCAAACUGA&CAAGAAGCCAAAUUGUUUAGAAUUUGCUUCCCAUUUUGCACC
(((((((((((((.(.....((((.(((((&.....)))))))).....)))))))). -17.60
>ENSRNOG00000014670 hs-mir-19b      113      120
UGUGCAAUCCAUGCAAACUGA&UUGCACCAGCCUUUAAACACUUUUCGUGGUGAAUUUUUGCACAG
(((((((((((((.((((.((((.((&.....)))))))))).....)))))))). -
21.50
>ENSRNOG00000014670 hs-mir-19b      692      699
UGUGCAAUCCAUGCAAACUGA&GAUCUUAGAGAAAAAUGAAUAAUUUAAAUUUAAAGUUUGCACAU
(((((((((((((.(.....&.....)))))))))))). -
15.10

miRNA: mir-19b
Human predicted target: ENSG00000061987
Mouse predicted target: ENSMUSG00000034602
Rat predicted target: ENSRNOG00000004185
Hs Gene description: SF21 PROTEIN. [Source:SPTREMBL;Acc:Q8NHE2]
mir-19b      ENSG00000061987      6002 nt UTR      2 hits 384 4697
-----1-----1-----
-----
-----1-----1-----
-----
>ENSG00000061987 hs-mir-19b      384      391
UGUGCAAUCCAUGCAAACUGA&UAUUUCAAUUCAGUCAGAUUUAAUUAGUCUGGUGUUUUUGCACC
(((((((((((((.((((.((((.((&.....)))))))).....)))))))). -18.90
>ENSG00000061987 hs-mir-19b      4697      4704
UGUGCAAUCCAUGCAAACUGA&UGGUUCUACCACUACAAAGUGGAAAGUAGAAAUACUUUGCACU
(((((((((((((.(.....&.....)))))))).....)))))))). -16.40
mir-19b      ENSMUSG00000034602      2351 nt UTR      2 hits 371 1435
-----1-----1-----
-----
>ENSMUSG00000034602 hs-mir-19b      371      378
UGUGCAAUCCAUGCAAACUGA&AAUGAUAAUUCCAUCAGAUUUUUGAGGCUGGUGUUUUUGCACC
(((((((((((((.((((.((((.((&.....)))))))).....)))))))). -21.00
>ENSMUSG00000034602 hs-mir-19b      1435      1442
UGUGCAAUCCAUGCAAACUGA&AGUUUUGAGGCUAUUUUAAUUUAUGUAAUGAUUUAAUUUGCACU

```

```
.((((((((((...((((((...&)))))))).).....)))))))). -18.55
mir-19b   ENSRNOG00000004185   2000 nt UTR   3 hits 361 729 1482
-----1-----1-----1-----
-----
>ENSRNOG00000004185 hs-mir-19b   361   368
UGUGCAAUCCAUGCAAACUGA&AAAGAUUUUCCAUCAGAUUUUUGAGGCUGGUGUUUUGCACC
.((((((((((...((((((...&)))))))).).....)))))))). -21.00
>ENSRNOG00000004185 hs-mir-19b   729   736
UGUGCAAUCCAUGCAAACUGA&UGUGAGCACAGCAGCAGAAGGUAUGAUUCGCUGACUUUGCACC
.((((((((((...((((((...&)))))))).).....)))))))). -18.11
>ENSRNOG00000004185 hs-mir-19b   1482  1489
UGUGCAAUCCAUGCAAACUGA&AGUUUUGAGGCUAUUUUAAUUAUGUGAUGAUUUAAUUUGCACU
.((((((((((...((((((...&)))))))).).....)))))))). -18.55
```

miRNA: mir-19b

Human predicted target: ENSG00000066382  
Mouse predicted target: ENSMUSG00000016386  
Rat predicted target: ENSRNOG00000004863  
Hs Gene description: FETAL BRAIN PROTEIN 239 (239FB).  
[Source:SWISSPROT;Acc:Q15777] NM\_001585

```
mir-19b   ENSG00000066382   3244 nt UTR   2 hits 376 1035
-----1-----1-----
-----
>ENSG00000066382 hs-mir-19b   376   383
UGUGCAAUCCAUGCAAACUGA&UAAGAAACAGGCAGUGUUUAAAAACCAACACAGAUUUGCACAA
((((((((((...((((((...&)))))))).).....)))))))). -
20.51
>ENSG00000066382 hs-mir-19b   1035  1042
UGUGCAAUCCAUGCAAACUGA&CAAGUUGUCUUCUACUCCUCUCCCUCCCAUUUUGCACU
.((((((((((...&)))))))).).....)))))))). -13.10
```

```
mir-19b   ENSMUSG00000016386   2138 nt UTR   2 hits 436 1086
-----1-----1-----
-----
>ENSMUSG00000016386 hs-mir-19b   436   443
UGUGCAAUCCAUGCAAACUGA&AAACACAAAAGCAGUGUUUUGAAAAUCACCCAGAUUUGCACAA
((((((((((...((((((...&)))))))).).....)))))))). -
20.79
>ENSMUSG00000016386 hs-mir-19b   1086  1093
UGUGCAAUCCAUGCAAACUGA&CCUGUUUUGUCUUCACUCCCUCCCUCCCAUUUUGCACU
.((((((((((...((((((...&)))))))).).....)))))))). -16.11
```

```
mir-19b   ENSRNOG00000004863   2000 nt UTR   2 hits 428 1081
-----1-----1-----
-----
>ENSRNOG00000004863 hs-mir-19b   428   435
UGUGCAAUCCAUGCAAACUGA&AAACACAAAAGGCAGUGUUUUGAAAAUCUACCCAGAUUUGCACAA
((((((((((...((((((...&)))))))).).....)))))))). -
20.79
```

>ENSRNOG00000004863 hs-mir-19b 1081 1088  
UGUGCAAUCCAUGCAAACUGA&CUGCAUCGUCUUCUCACGCCCCGUCUCCUCCAUUUUGCACU  
.(((((((.(.((((.....&..)))))).).....)))))))). -14.89

miRNA: mir-19b

Human predicted target: ENSG00000069667

Mouse predicted target: ENSMUSG00000032238

Rat predicted target: ENSRNOG00000009880

Hs Gene description: NUCLEAR RECEPTOR ROR-ALPHA (NUCLEAR RECEPTOR RZR-ALPHA). [Source:SWISSPROT;Acc:P35398] NM\_134262

mir-19b ENSG00000069667 2191 nt UTR 2 hits 418 663

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

>ENSG00000069667 hs-mir-19b 418 425  
UGUGCAAUCCAUGCAAACUGA&GUGACUGGUGUGCAUAGCGGAGGUUGCGGCAUUACUUUGCACAA  
(((((((.(.((((.....&..)))))).).....)))))))). -  
22.10

>ENSG00000069667 hs-mir-19b 663 670  
UGUGCAAUCCAUGCAAACUGA&UAGCUUUUCCUGUUGAAUUGAUUAAGGCACUUUCAUUUUGCACC  
.(((((((.(.((((.....&..)))))).).....)))))))). -14.80

mir-19b ENSMUSG00000032238 2836 nt UTR 2 hits 445 698

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

>ENSMUSG00000032238 hs-mir-19b 445 452  
UGUGCAAUCCAUGCAAACUGA&GACCCCGGUGUGUAUGGCGGGAGUUGCGGCGUUACUUUGCACAG  
(((((((.(.((((.....&..)))))).).....)))))))). -  
23.11

>ENSMUSG00000032238 hs-mir-19b 698 705  
UGUGCAAUCCAUGCAAACUGA&GCUUUUCCUGUUGAAUUGAUUAAGGCACUUUCCGUUUUUGCACC  
.(((((((.(.((((.....&..)))))).).....)))))))). -14.40

mir-19b ENSRNOG00000009880 2000 nt UTR 2 hits 442 696

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

>ENSRNOG00000009880 hs-mir-19b 442 449  
UGUGCAAUCCAUGCAAACUGA&GACCCCGGUGUGUAUGGCCAGAGUUACGGCGUUACUUUGCACAG  
(((((((.(.((((.....&..)))))).).....)))))))). -  
23.11

>ENSRNOG00000009880 hs-mir-19b 696 703  
UGUGCAAUCCAUGCAAACUGA&UAGCUUUUCCUGUUGAAUUGAUUAAGGCACUUUCCGUUUUGCACC  
.(((((((.(.((((.....&..)))))).).....)))))))). -15.70

miRNA: mir-19b

Human predicted target: ENSG00000106004

Mouse predicted target: ENSMUSG00000038253

Rat predicted target: ENSRNOG00000006466

Hs Gene description: HOMEBOX PROTEIN HOX-A5 (HOX-1C).

[Source:SWISSPROT;Acc:P20719] NM\_019102

mir-19b ENSG00000106004 2458 nt UTR 2 hits 583 1350

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

>ENSG00000106004 hs-mir-19b 583 590  
UGUGCAAUCCAUGCAAACUGA&CAAGCGGUGUGUCCUGCGUGCCUUUAUAGGACCCUUUGCACGA  
(((((((((((((.....)))))).....))))). -  
19.60

>ENSG00000106004 hs-mir-19b 1350 1357  
UGUGCAAUCCAUGCAAACUGA&GAAACUCCUCAGAGCAGCUAAAGCGCAACUAGAGAUUUGCACAU  
(((((((((((((.....)))))).....))))). -  
19.91

mir-19b ENSMUSG00000038253 2827 nt UTR 2 hits 603 1344

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

>ENSMUSG00000038253 hs-mir-19b 603 610  
UGUGCAAUCCAUGCAAACUGA&CAAGCGGUGUGUCCUGCGUGCCUUUGUAGGACCCUUUGCACGA  
(((((((((((((.....&.....)))))).....))))). -  
20.90

>ENSMUSG00000038253 hs-mir-19b 1344 1351  
UGUGCAAUCCAUGCAAACUGA&GAAACUCCUCAGAGCAGCUAAAGCCCAACUAGAGAUUUGCACAU  
(((((((((((((.....)))))).....))))). -  
19.91

mir-19b ENSRNOG00000006466 2000 nt UTR 3 hits 619 1367 1798

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

>ENSRNOG00000006466 hs-mir-19b 619 626  
UGUGCAAUCCAUGCAAACUGA&CAAGCGGUGUGUCCUGCGUGCCUUUGUAGGACCCUUUGCACGA  
(((((((((((((.....&.....)))))).....))))). -  
20.90

>ENSRNOG00000006466 hs-mir-19b 1367 1374  
UGUGCAAUCCAUGCAAACUGA&GAAACUCCUCAGAGCAGCUAAAGCCCAACUAGAGAUUUGCACAU  
(((((((((((((.....)))))).....))))). -  
19.91

>ENSRNOG00000006466 hs-mir-19b 1798 1805  
UGUGCAAUCCAUGCAAACUGA&CCAUGUUAAGGUAAGCUCGCCUCCUCUAGAGUUUAUUUGCACC  
(((((((((((((.....&.....)))))).....))))). -14.11

miRNA: mir-19b

Human predicted target: ENSG00000111727

Mouse predicted target: ENSMUSG00000020247

Rat predicted target: ENSRNOG00000011072

Hs Gene description: HOST CELL FACTOR 2. [Source:RefSeq;Acc:NM\_013320]

NM\_013320

mir-19b ENSG00000111727 2000 nt UTR 2 hits 1746 1870



-----1-----  
1-----  
>ENSG00000111727 hs-mir-19b 1746 1753  
UGUGCAAUCCAUGCAAACUGA&AAUUCAUAUGCUUUGCUUUUGGCAUAUGCUUGCUUUUUGCACU  
.(((((((.((((.((((.....&.....))))))..))))). -18.04  
>ENSG00000111727 hs-mir-19b 1870 1877  
UGUGCAAUCCAUGCAAACUGA&AUACUUAACCAAAGUUAAAAUACAUGGUAAGCAAUUUUGCACAU  
(((((((.((((.((((...((...&.....))))))..))))). -  
18.80  
mir-19b ENSMUSG00000020247 4096 nt UTR 2 hits 1576 1693

-----1-----  
-----  
>ENSMUSG00000020247 hs-mir-19b 1576 1583  
UGUGCAAUCCAUGCAAACUGA&UAAAUUUUAUGUGCUUUGCUUUGGCAGCGCUUGCUUUUUGCACU  
.(((((((.....(((.((((.&.....))))))..))))). -18.70  
>ENSMUSG00000020247 hs-mir-19b 1693 1700  
UGUGCAAUCCAUGCAAACUGA&AAACAUGUCUUAACCAAAGUUACAUGGGAUGCAGAUUUGCACAU  
(((((((.((((.((((...((...&.....))))))..))))). -  
22.20  
mir-19b ENSRNOG00000011072 2181 nt UTR 2 hits 1677 1793

-----1-----  
-----  
>ENSRNOG00000011072 hs-mir-19b 1677 1684  
UGUGCAAUCCAUGCAAACUGA&UAAUUGGUGUGCUUUGCUUUGGCAGCGCUUGCUCUUUUGCACU  
.(((((((.((((.((((((...&...))..))))))..))))). -18.54  
>ENSRNOG00000011072 hs-mir-19b 1793 1800  
UGUGCAAUCCAUGCAAACUGA&UAAACAUGUCUUAACCAAAGUUACAUGUAUGCAGAUUUGCACAU  
(((((((.((((.((((((...&.....))))))..))))). -  
24.90

miRNA: mir-19b  
Human predicted target: ENSG00000113300  
Mouse predicted target: ENSMUSG00000020362  
Rat predicted target: ENSRNOG00000002803  
Hs Gene description: KIAA1194. [Source:RefSeq;Acc:NM\_015455] NM\_015455  
mir-19b ENSG00000113300 2000 nt UTR 2 hits 219 615

-----1-----  
-----  
>ENSG00000113300 hs-mir-19b 219 226  
UGUGCAAUCCAUGCAAACUGA&AAUAUGCUUUUAUACUGCUAGACAGGGAUUGGUGUGUUUGCACC  
.(((((((.((((.((((.&.....))))))..))))). -21.00  
>ENSG00000113300 hs-mir-19b 615 622  
UGUGCAAUCCAUGCAAACUGA&UAAAAGAAGCUGCAACAGACUUUCUCUGCUCAUGAUUUGCACU  
.(((((((.((((.((((.....&.....))))))..))))). -20.20  
mir-19b ENSMUSG00000020362 5687 nt UTR 2 hits 309 607

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

-----  
>ENSMUSG00000020362 hs-mir-19b 309 316  
UGUGCAAUCCAUGCAAACUGA&GCCUUGAAAUAGGAAGAUGUGUGAGCAGUGUGCUGUUUGCACAG  
((((((((.....(((((((&.....)))))))).)))))))). -  
22.10

>ENSMUSG00000020362 hs-mir-19b 607 614  
UGUGCAAUCCAUGCAAACUGA&GGUAACAAAGCUGCAUCCGACUUUCUCUGCAGUGAUUUGCACU  
((((((((.....&.....)))))))). -22.50  
mir-19b ENSRNOG00000002803 2000 nt UTR 2 hits 319 611

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

-----  
>ENSRNOG00000002803 hs-mir-19b 319 326  
UGUGCAAUCCAUGCAAACUGA&UGCCUUGAAAUAGGAAGAUGUGUGAACAGUGUGUGUUUGCACAG  
((((((((.....&.....)))))))). -  
22.10

>ENSRNOG00000002803 hs-mir-19b 611 618  
UGUGCAAUCCAUGCAAACUGA&GGUAACAAAGUUGCAUCAGACUUUCUCUGCAGUGAUUUGCACU  
((((((((.....&.....)))))))). -22.80

miRNA: mir-19b  
Human predicted target: ENSG00000123091  
Mouse predicted target: ENSMUSG00000028557  
Rat predicted target: ENSRNOG00000009158  
Hs Gene description: RING FINGER PROTEIN 11 (SID1669) (CGI-123).  
[Source:SWISSPROT;Acc:Q9Y3C5] NM\_014372  
mir-19b ENSG00000123091 3934 nt UTR 2 hits 487 1150

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

>ENSG00000123091 hs-mir-19b 487 494  
UGUGCAAUCCAUGCAAACUGA&ACACUGGCACACACAAAAAGUAGUUUUAAGCUUGUUUGCACAG  
((((((((.....(((((((&.....)))))))).)))))))). -  
21.00

>ENSG00000123091 hs-mir-19b 1150 1157  
UGUGCAAUCCAUGCAAACUGA&UAAGCAGGGAGAAUAAAGAUAAUUGUAUUUUUGUUUUGCACAC  
((((((((.....&.....)))))))). -  
18.81  
mir-19b ENSMUSG00000028557 3693 nt UTR 2 hits 483 1116

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

>ENSMUSG00000028557 hs-mir-19b 483 490  
UGUGCAAUCCAUGCAAACUGA&GGCACAAAAAUAAGUAGUUUUAAGCUUGUUUGCACAG  
((((((((.....(((((((&.....)))))))).)))))))). -  
21.00

>ENSMUSG00000028557 hs-mir-19b 1116 1123  
UGUGCAAUCCAUGCAAACUGA&CUAGGUGACUGACAGGAGAGGCAAUGUGUUAUGUUUUGCACAC  
(((((((((((((.....(((&.....)))))).....)))))).....)))))))). -  
18.10  
mir-19b ENSRNOG00000009158 2000 nt UTR 2 hits 479 1106  
-----1-----1-----

>ENSRNOG00000009158 hs-mir-19b 479 486  
UGUGCAAUCCAUGCAAACUGA&UAUAACACUGGCACAAAAAGUAGUUUAAGCUUGUUUGCACAG  
(((((((((((((.....(((((.....&.....)))))).....)))))).....)))))))). -  
21.00

>ENSRNOG00000009158 hs-mir-19b 1106 1113  
UGUGCAAUCCAUGCAAACUGA&AAGUGACUGACAGGACAGGUAAAUGUGUUUCAUGUUUUGCACAC  
(((((((((((((.....(((((.....&.....)))))).....)))))).....)))))))). -  
18.40

miRNA: mir-19b  
Human predicted target: ENSG00000137843  
Mouse predicted target: ENSMUSG00000006252  
Rat predicted target: ENSRNOG00000007925  
Hs Gene description: SERINE/THREONINE-PROTEIN KINASE PAK 6 (EC 2.7.1.-)  
(P21-ACTIVATED KINASE 6) (PAK-6) (PAK-5). [Source:SWISSPROT;Acc:Q9NQU5]  
NM\_020168  
mir-19b ENSG00000137843 3392 nt UTR 3 hits 239 1349 2963  
-----1-----1-----

>ENSG00000137843 hs-mir-19b 239 246  
UGUGCAAUCCAUGCAAACUGA&AUGGAGACCCCUUUCUACAGGAUGACCCCUUGAUUUUGCACAG  
(((((((((((((.....(((((.....&.....)))))).....)))))).....)))))))). -  
17.00

>ENSG00000137843 hs-mir-19b 1349 1356  
UGUGCAAUCCAUGCAAACUGA&ACAAAAGCAUCUCCCUAGAAAUUUUUGUGAAUUGUUUGCACU  
(((((((((((((.....(((((.....&.....)))))).....)))))).....)))))))). -17.40

>ENSG00000137843 hs-mir-19b 2963 2970  
UGUGCAAUCCAUGCAAACUGA&GAGUACAUAAGCAAGCAAGGGUCAGAAAGCAGCAGUUUGCACU  
(((((((((((((.....(((((.....&.....)))))).....)))))).....)))))))). -21.00  
mir-19b ENSMUSG00000006252 2000 nt UTR 2 hits 286 1439  
-----1-----1-----

>ENSMUSG00000006252 hs-mir-19b 286 293  
UGUGCAAUCCAUGCAAACUGA&ACAGUGACCCCUUCUGCAGGUUUGGCCCUUGUUAUUUGCACAG  
(((((((((((((.....(((((.....&.....)))))).....)))))).....)))))))). -  
20.63

>ENSMUSG00000006252 hs-mir-19b 1439 1446  
UGUGCAAUCCAUGCAAACUGA&CAAAGCAUCCUCCCUAGACAUUUUUGUGACUUGUUUGCACU  
(((((((((((((.....(((((.....&.....)))))).....)))))).....)))))))). -19.20  
mir-19b ENSRNOG00000007925 2000 nt UTR 2 hits 255 1438

-----1-----1-----  
-----  
>ENSRNOG00000007925 hs-mir-19b 255 262  
UGUGCAAUCCAUGCAAACUGA&ACAGUGACCCCUUCUGCAGGUUUGGCCCUUUGUUAUUUGCACAG  
(((((((((((((.....)))))).....)))))).....)))). -  
20.63  
>ENSRNOG00000007925 hs-mir-19b 1438 1445  
UGUGCAAUCCAUGCAAACUGA&CAAAGCAUCCUCCUAGAAAUUUUUGUGACUUGUUUGCACU  
(((((((((((((.....&.....)))))).....)))))).....)))). -17.40

miRNA: mir-19b

Human predicted target: ENSG00000146674

Mouse predicted target: ENSMUSG00000020427

Rat predicted target: ENSRNOG00000008645

Hs Gene description: INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 3  
PRECURSOR (IGFBP-3) (IBP-3) (IGF-BINDING PROTEIN 3).

[Source:SWISSPROT;Acc:P17936] NM\_000598

mir-19b ENSG00000146674 3500 nt UTR 2 hits 43 2498

-1-----1-----  
-----1-----  
>ENSG00000146674 hs-mir-19b 43 50  
UGUGCAAUCCAUGCAAACUGA&CCGCAAGGUUAAUGUGGAGCUCAAAUAUGCCUUAUUUUGCACAA  
(((((((((((((.....&.....)))))).....)))))).....)))). -  
18.42

>ENSG00000146674 hs-mir-19b 2498 2505  
UGUGCAAUCCAUGCAAACUGA&UGUUUUAGUUAUGUGGAGCUCAAAUAUGCCUUAUUUUGCACAA  
(((((((((((((.....&.....)))))).....)))))).....)))). -  
19.92  
mir-19b ENSMUSG00000020427 3414 nt UTR 2 hits 42 2304

-1-----1-----  
-----1-----  
>ENSMUSG00000020427 hs-mir-19b 42 49  
UGUGCAAUCCAUGCAAACUGA&CGUGCCACAUAAUAUGGAGCUCAAAUAUGCCUUAUUUUGCACAA  
(((((((((((((.....&.....)))))).....)))))).....)))). -  
17.40

>ENSMUSG00000020427 hs-mir-19b 2304 2311  
UGUGCAAUCCAUGCAAACUGA&CCUUUUAGAUAAUAUGGAGCUCAAAUAUGCCUUAUUUUGCACAA  
(((((((((((((.....&.....)))))).....)))))).....)))). -  
17.92  
mir-19b ENSRNOG00000008645 3446 nt UTR 2 hits 67 2387

--1-----1-----  
-----1-----  
>ENSRNOG00000008645 hs-mir-19b 67 74  
UGUGCAAUCCAUGCAAACUGA&UGUGCCACUUAACGUGGAGCUCAAAUACGCCUUAUUUUGCACAA  
(((((((((((((.....&.....)))))).....)))))).....)))). -  
19.02

>ENSRNOG00000008645 hs-mir-19b 2387 2394

UGUGCAAUCCAUGCAAACUGA&CCCUUUAGUUAACGUGGAGCUCAAAUACGCCUUAUUUUGCACAA  
((((((((((((((...(((((&.....))))))..)))))).....)))))))). -  
22.32

miRNA: mir-19b

Human predicted target: ENSG00000147642  
Mouse predicted target: ENSMUSG00000022340  
Rat predicted target: ENSRNOG00000004200  
Hs Gene description: NM\_017786

mir-19b ENSG00000147642 2720 nt UTR 2 hits 119 298

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

>ENSG00000147642 hs-mir-19b 119 126  
UGUGCAAUCCAUGCAAACUGA&GUCUCUAUUCUGUCGUUUUGCUCUCCUUGGUAAUUUGAUUUGCACU  
.(((((((((((((.(((((((&.....))))))))).....)).....)))))))). -22.50

>ENSG00000147642 hs-mir-19b 298 305  
UGUGCAAUCCAUGCAAACUGA&UUCUUAUCCUAGUGGUUCAGGAAGAGAAAACGCAGUUUGCACU  
.(((((((((.((.....(((((&.....)))))).....)))))))). -16.96

mir-19b ENSMUSG00000022340 2000 nt UTR 3 hits 110 288 1171

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

>ENSMUSG00000022340 hs-mir-19b 110 117  
UGUGCAAUCCAUGCAAACUGA&UCUCUAUUCUGUCAGUUUUGCUUCUCGCUAUUUGAUUUGCACU  
.((((((((((((...(((((((((&.....))))))))).....)))))))). -27.76

>ENSMUSG00000022340 hs-mir-19b 288 295  
UGUGCAAUCCAUGCAAACUGA&UUCUUAUACUAAUGGUUCAGGAAGAGAAAUGCCGUUUGCACU  
.(((((((((.((((.....(((((&.....)))))).....))))..)))))))). -17.46

>ENSMUSG00000022340 hs-mir-19b 1171 1178  
UGUGCAAUCCAUGCAAACUGA&AAGGCAUGCAGCUGCUUGCACACACAAUCAGCACGUUUGCACU  
.((((((((((((...(((((((&.....)))..)))))).....)))))))). -17.03

mir-19b ENSRNOG00000004200 2000 nt UTR 2 hits 112 290

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

>ENSRNOG00000004200 hs-mir-19b 112 119  
UGUGCAAUCCAUGCAAACUGA&AGUCUCUAUUGUCAUUUUUGCUCUCCUUGCUAUUUGAUUUGCACU  
.(((((((((((((.(((((((&.....))))..)))))).....)))))))). -22.10

>ENSRNOG00000004200 hs-mir-19b 290 297  
UGUGCAAUCCAUGCAAACUGA&UUCUUAUACUAAUGGUUCAGAAAGAGAAAUGCAGUUUGCACU  
.((((((((((((...(((((((&.....)))))).....)))))))). -17.42

miRNA: mir-19b

Human predicted target: ENSG00000153250  
Mouse predicted target: ENSMUSG00000026970  
Rat predicted target: ENSRNOG00000008482

Hs Gene description: SINGLE-STRANDED DNA-BINDING PROTEIN MSSP-1 (RNA BINDING MOTIF, SINGLE- STRANDED INTERACTING PROTEIN 1).

[Source:SWISSPROT;Acc:P29558]

mir-19b ENSG00000153250 2773 nt UTR 2 hits 103 1734

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

>ENSG00000153250 hs-mir-19b 103 110  
UGUGCAAUCCAUGCAAACUGA&UCUGAUCAAUUGUGCUUUAGGAAUUAUUGACAGUUUUGCACAG  
((((((((((..(((.(.(((&.....))))).)))).))....)).....)))))))). -  
18.51

>ENSG00000153250 hs-mir-19b 1734 1741  
UGUGCAAUCCAUGCAAACUGA&UCUGAUCAAUUGUGCUUUAGGAAUUAUUGACAGUUUUGCACAG  
((((((((((..(((.(.(((&.....))))).)))).))....)).....)))))))). -  
18.51

mir-19b ENSMUSG00000026970 2308 nt UTR 2 hits 103 1151

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

>ENSMUSG00000026970 hs-mir-19b 103 110  
UGUGCAAUCCAUGCAAACUGA&UCUGAUCAAUUGUGCUUUAGGAAUUAUUGACAGUUUUGCACAG  
((((((((((..(((.(.(((&.....))))).)))).))....)).....)))))))). -  
18.51

>ENSMUSG00000026970 hs-mir-19b 1151 1158  
UGUGCAAUCCAUGCAAACUGA&UCUGAUCAAUUGUGCUUUAGGAAUUAUUGACAGUUUUGCACAG  
((((((((((..(((.(.(((&.....))))).)))).))....)).....)))))))). -  
18.51

mir-19b ENSRNOG00000008482 2321 nt UTR 2 hits 107 1136

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

>ENSRNOG00000008482 hs-mir-19b 107 114  
UGUGCAAUCCAUGCAAACUGA&UCUGAUCAAUUGUGCUUUAGGAAUUAUUGACAGUUUUGCACAG  
((((((((((..(((.(.(((&.....))))).)))).))....)).....)))))))). -  
18.51

>ENSRNOG00000008482 hs-mir-19b 1136 1143  
UGUGCAAUCCAUGCAAACUGA&UCUGAUCAAUUGUGCUUUAGGAAUUAUUGACAGUUUUGCACAG  
((((((((((..(((.(.(((&.....))))).)))).))....)).....)))))))). -  
18.51

miRNA: mir-19b

Human predicted target: ENSG00000154359

Mouse predicted target: ENSMUSG00000039633

Rat predicted target: ENSRNOG00000011349

Hs Gene description: NM\_152271

mir-19b ENSG00000154359 3190 nt UTR 2 hits 70 506

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

>ENSG00000154359 hs-mir-19b 70 77  
UGUGCAAUCCAUGCAAACUGA&AUCUGGCUGCAUUGAUGGCCAGAUUGUCUGCUGCCUUUGCACAU

```

((((((((((..((..(((..(((..&.....))))..))..))))..))))..)))).. -
20.00
>ENSG00000154359 hs-mir-19b      506      513
UGUGCAAUCCAUGCAAACUGA&AAUUUGCCUCAGAUUAUUCUGUCCUAAUGCUUAUAUUUGCACAA
((((((((((..((..(((..(((..&.....))))..))..))))..))))..)))).. -
18.90
mir-19b      ENSMUSG00000039633  2000 nt UTR      2 hits 121 702
-----1-----1-----
>ENSMUSG00000039633 hs-mir-19b      121      128
UGUGCAAUCCAUGCAAACUGA&CUGGCUCCAGUUGACAGCCGGAUUGCCCUGCCUUUUGCACAC
((((((((((..((..(((..(((..&.....))))..))..))))..))))..)))).. -
20.51
>ENSMUSG00000039633 hs-mir-19b      702      709
UGUGCAAUCCAUGCAAACUGA&UGACUUUGCCUCAGAUUAUUCUCCCAUGCUUCUCUUUGCACAA
((((((((((..((..(((..(((..&.....))))..))..))))..))))..)))).. -
17.60
mir-19b      ENSRNOG00000011349  2000 nt UTR      2 hits 117 649
-----1-----1-----
>ENSRNOG00000011349 hs-mir-19b      117      124
UGUGCAAUCCAUGCAAACUGA&GAUCUGGCUCUUGAUGGCCGGAUUGCCCUGCCUUUUGCACAC
((((((((((..((..(((..(((..&.....))))..))..))))..))))..)))).. -
18.30
>ENSRNOG00000011349 hs-mir-19b      649      656
UGUGCAAUCCAUGCAAACUGA&AAUUUGCCUCAGAUUAUUCUUGCCUGAUGCUUCUAUUUGCACAA
((((((((((..((..(((..(((..&.....))))..))..))))..))))..)))).. -
18.70

```

```

miRNA: mir-19b
Human predicted target: ENSG00000157851
Mouse predicted target: ENSMUSG00000029168
Rat predicted target: ENSRNOG00000008996
Hs Gene description: DIHYDROPYRIMIDINASE RELATED PROTEIN-5 (DRP-5) (ULIP6
PROTEIN) (COLLAPSIN RESPONSE MEDIATOR PROTEIN-5) (CRMP-5).
[Source:SWISSPROT;Acc:Q9BPU6]
mir-19b      ENSG00000157851      3205 nt UTR      2 hits 681 2181
-----1-----1-----
>ENSG00000157851 hs-mir-19b      681      688
UGUGCAAUCCAUGCAAACUGA&CGAGGCUGGUGCCAGGCGCGUGUAAAUGGUUUUGUUUUGCACGU
((((((((((..((..(((..(((..&.....))))..))..))))..))))..)))).. -
20.10
>ENSG00000157851 hs-mir-19b      2181     2188
UGUGCAAUCCAUGCAAACUGA&GAAGACUUACUUUCCUGGUAGGCAGCCUGCUUUGUUUUGCACAG
((((((((((..((..(((..(((..&.....))))..))..))))..))))..)))).. -
20.20

```

mir-19b ENSMUSG00000029168 4649 nt UTR 2 hits 711 1773  
-----1-----1-----  
-----

>ENSMUSG00000029168 hs-mir-19b 711 718  
UGUGCAAUCCAUGCAAACUGA&UGUGGCUGGUGCCAGGCGCGUGUAAAUGGUUUUGUUUUGCACGU  
((((((((.....(((((((.&.....)))))))))))))))). -  
20.10

>ENSMUSG00000029168 hs-mir-19b 1773 1780  
UGUGCAAUCCAUGCAAACUGA&GAGUGCUUUCUCCUGGGGCGUGUUCUGCUUUGCUUUGCACAA  
(((((((((.((..(((.&.....))))..))..))..))..)))). -  
19.70

mir-19b ENSRNOG00000008996 5030 nt UTR 2 hits 699 1761  
-----1-----1-----  
-----

>ENSRNOG00000008996 hs-mir-19b 699 706  
UGUGCAAUCCAUGCAAACUGA&UGCGGCUGGUGCCAGGCGCGUGUAAAUGGUUUUGUUUUGCACGU  
((((((((.....(((((((.&.....)))))))))))))))). -  
20.10

>ENSRNOG00000008996 hs-mir-19b 1761 1768  
UGUGCAAUCCAUGCAAACUGA&AGAAUACUUCUCCUGGGGCACGUUCUGCCUUGCUUUGCACAA  
(((((((((.((..(((.&.....))))..))..))..))..)))). -  
19.90

miRNA: mir-19b  
Human predicted target: ENSG00000163624  
Mouse predicted target: ENSMUSG00000029330  
Rat predicted target: ENSRNOG00000002142  
Hs Gene description: PHOSPHATIDATE CYTIDYLYLTRANSFERASE 1 (EC 2.7.7.41)  
(CDP-DIGLYCERIDE SYNTHETASE 1) (CDP-DIGLYCERIDE PYROPHOSPHORYLASE 1) (CDP-  
DIACYLGLYCEROL SYNTHASE 1) (CDS 1) (CTP:PHOSPHATIDATE CYTIDYLYLTRANSFERASE  
1) (CDP-DAG SYNTHASE 1) (CDP-DG SYNTHETASE 1).  
[Source:SWISSPROT;Acc:Q92903] NM\_001263

mir-19b ENSG00000163624 2505 nt UTR 3 hits 346 364 2201  
-----11-----  
-----1-----

>ENSG00000163624 hs-mir-19b 346 353  
UGUGCAAUCCAUGCAAACUGA&ACGAUGUUUUAAGAUUGCACCUGGCAGUGGCCUUUUUGCACAA  
((((((((.....(((..(((.&.....))))..))..))..))..)))). -  
20.70

>ENSG00000163624 hs-mir-19b 364 371  
UGUGCAAUCCAUGCAAACUGA&ACCUGGCAGUGUGCCUUUUUGCACAAUAAUUUACUUUUGCACU  
..((((((((.....(((((((.&.....))))..))..))..))..)))). -17.60

>ENSG00000163624 hs-mir-19b 2201 2208  
UGUGCAAUCCAUGCAAACUGA&AUUGCCAUAACCCUGACUUGGCUCAUUUUGAUUUUUGCACU  
..((((((((.....(((((((.&.....))))..))..))..))..)))). -16.80



mir-19b ENSMUSG00000029330 4294 nt UTR 2 hits 1844 2076

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

>ENSMUSG00000029330 hs-mir-19b 1844 1851  
UGUGCAAUCCAUGCAAACUGA&CAACCACCGUGAGAGCGACUGUGACCAGCGUCCAUUUGCACU  
.((((((((((..(((.....&.....))))))..)))))))). -18.30

>ENSMUSG00000029330 hs-mir-19b 2076 2083  
UGUGCAAUCCAUGCAAACUGA&UGUCCGAGAUUAAAGGCUGCCCCACUUUUGUCCCUUGCACU  
.((((((((((.....(((.....&.....))))))..)))))))). -17.20

mir-19b ENSRNOG00000002142 4342 nt UTR 3 hits 368 2022 2191

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

>ENSRNOG00000002142 hs-mir-19b 368 375  
UGUGCAAUCCAUGCAAACUGA&GCCUGGCAGUGUGAUCCUUCUCACAAACACUGACCUUGCACU  
.((((((((((.....(((.....&.....))))))..)))))))). -14.81

>ENSRNOG00000002142 hs-mir-19b 2022 2029  
UGUGCAAUCCAUGCAAACUGA&GCAAUCAUCCUAAGAGCCAUGUGAUGAGCGCUACAUUUGCACU  
.((((((((((.....(((.....&.....))))))..)))))))). -16.60

>ENSRNOG00000002142 hs-mir-19b 2191 2198  
UGUGCAAUCCAUGCAAACUGA&GAGAAUGGGGCGUUCUCCCCAGCCUUCUUGUGGGUUUGCACAG  
((((((((((((.....(((.....&.....))))))..)))))))). -  
24.74

miRNA: mir-19b  
Human predicted target: ENSG00000171862  
Mouse predicted target: ENSMUSG00000013663  
Rat predicted target: ENSRNOG00000020723  
Hs Gene description: PHOSPHATIDYLINOSITOL-3,4,5-TRISPHOSPHATE 3-  
PHOSPHATASE PTEN (EC 3.1.3.67) (MUTATED IN MULTIPLE ADVANCED CANCERS 1).  
[Source:SWISSPROT;Acc:O00633] NM\_000314

mir-19b ENSG00000171862 2904 nt UTR 3 hits 411 1221 2252

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

>ENSG00000171862 hs-mir-19b 411 418  
UGUGCAAUCCAUGCAAACUGA&AGAGCUUUGUGAUUACUGGUUCACAUCCUACCCCUUGCACU  
.((((((((((.....(((.....&.....))))))..)))))))). -14.49

>ENSG00000171862 hs-mir-19b 1221 1228  
UGUGCAAUCCAUGCAAACUGA&GACCUUACACAUCUUAUUACAAUGAAUUUUGCAGUUUUGCACAU  
((((((((((((.....(((.....&.....))))))..)))))))). -  
21.80

>ENSG00000171862 hs-mir-19b 2252 2259  
UGUGCAAUCCAUGCAAACUGA&GGGCCAGGUCAUAAAUAUUGACAUUAUAAUGGGCUUUUGCACU  
.((((((((((.....(((.....&.....))))))..)))))))). -17.50

mir-19b ENSMUSG00000013663 2073 nt UTR 2 hits 425 1236

-----1-----1-----  
-----  
>ENSMUSG00000013663 hs-mir-19b 425 432  
UGUGCAAUCCAUGCAAACUGA&GAAGAGCUCUGAUUCCCGGGUUCACGUCCUACCCCUUUGCACU  
.(((((((.....&.....)))))). -13.00  
>ENSMUSG00000013663 hs-mir-19b 1236 1243  
UGUGCAAUCCAUGCAAACUGA&GACCUUACACAUUCUAUUACAAUGAGUUUUGCAGUUUUGCACAU  
(((((((.....(((((((.&.....)))))). -  
26.00  
mir-19b ENSRNOG00000020723 3882 nt UTR 2 hits 1184 2564

-----1-----  
-----1-----  
-----  
>ENSRNOG00000020723 hs-mir-19b 1184 1191  
UGUGCAAUCCAUGCAAACUGA&GACCUUACACAUUCUAUUACAAUGAGUUUUGCAGUUUUGCACAU  
(((((((.....(((((((.&.....)))))). -  
26.00  
>ENSRNOG00000020723 hs-mir-19b 2564 2571  
UGUGCAAUCCAUGCAAACUGA&GACCUUACACAUUCUAUUACAAUGAGUUUUGCAGUUUUGCACAU  
(((((((.....(((((((.&.....)))))). -  
26.00

miRNA: mir-19b  
Human predicted target: ENSG00000176842  
Mouse predicted target: ENSMUSG00000031737  
Rat predicted target: ENSRNOG00000011180  
Hs Gene description: IROQUOIS-CLASS HOMEODOMAIN PROTEIN IRX-5 (IROQUOIS  
HOMEODOMAIN PROTEIN 5) (IRX-2A). [Source:SWISSPROT;Acc:P78411] NM\_005853  
mir-19b ENSG00000176842 2196 nt UTR 2 hits 1663 1820

-----1-----1-----  
-----  
>ENSG00000176842 hs-mir-19b 1663 1670  
UGUGCAAUCCAUGCAAACUGA&GGGUUCGGGUUGGCUGCGGUGCUGGCGGCUCCAUUUUGCACC  
.(((((((.....(((((((.&.....)))))). -19.30  
>ENSG00000176842 hs-mir-19b 1820 1827  
UGUGCAAUCCAUGCAAACUGA&AUUAAACCCAAGCCUGAGUGUAGAGAGGGAAUGUGUUUGCACAU  
(((((((.....(((((((.&.....)))))). -  
18.30  
mir-19b ENSMUSG00000031737 2198 nt UTR 2 hits 1696 1839

-----1-----  
1-----  
>ENSMUSG00000031737 hs-mir-19b 1696 1703  
UGUGCAAUCCAUGCAAACUGA&GAGUUCAGGCUUAGUUACCCUGCUUGCGGCUCCAUUUUGCACC  
.(((((((.....(((((((.&.....)))))). -18.01  
>ENSMUSG00000031737 hs-mir-19b 1839 1846  
UGUGCAAUCCAUGCAAACUGA&AGGAAUUAUUUGACUGACUGUAGGGACAGAACUGUUUGCACAC

(((.....&.....))..). - 18.10  
mir-19b ENSRNOG00000011180 2000 nt UTR 3 hits 1693 1830 1876  
-----1-----  
1-1----  
>ENSRNOG00000011180 hs-mir-19b 1693 1700  
UGUGCAAUCCAUGCAAACUGA&AAGUUCAGGCUUAGCUACCCUGCUCGCAUCUCAUUUUGCACC  
.(((((((.....&.....))))).)). -15.91  
>ENSRNOG00000011180 hs-mir-19b 1830 1837  
UGUGCAAUCCAUGCAAACUGA&GGAAUUAAUUUGCCUGUCUGUAGGGACAGAACUGUUUGCACAC  
(((((((.....&.....))))).)). - 18.10  
>ENSRNOG00000011180 hs-mir-19b 1876 1883  
UGUGCAAUCCAUGCAAACUGA&CGGCAACAUAUUACGCUAACGCAGAAUGUACAUGUUUGCACC  
.(((((((.....&.....))))).)). -18.50

miRNA: mir-19b  
Human predicted target: ENSG00000179456  
Mouse predicted target: ENSMUSG00000044051  
Rat predicted target: ENSRNOG00000004423  
Hs Gene description: ZINC FINGER PROTEIN 238 (TRANSCRIPTIONAL REPRESSOR RP58) (58 KDA REPRESSOR PROTEIN) (ZINC FINGER PROTEIN C2H2-171) (TRANSLIN ASSOCIATED ZINC FINGER PROTEIN-1) (TAZ-1). [Source:SWISSPROT;Acc:Q99592] NM\_006352

mir-19b ENSG00000179456 4106 nt UTR 2 hits 125 1476  
-----1-----1-----  
-----  
>ENSG00000179456 hs-mir-19b 125 132  
UGUGCAAUCCAUGCAAACUGA&UCCUGGAAUAAAAGUUGGGAAUUAACUUGUUUUUGCACU  
.(((((((.....&.....))))).)). -16.30  
>ENSG00000179456 hs-mir-19b 1476 1483  
UGUGCAAUCCAUGCAAACUGA&GUGGUUUUAAUGACCAGCACGCAAGGCAAAGCAUUUUGCACAG  
(((((((.....&.....))))).)). - 19.10

mir-19b ENSMUSG00000044051 4089 nt UTR 2 hits 135 1454  
-----1-----1-----  
-----  
>ENSMUSG00000044051 hs-mir-19b 135 142  
UGUGCAAUCCAUGCAAACUGA&UCCUGGAACUGAAAAGUUGGGAAUCUUAACUUGUUUUUGCACU  
.(((((((.....&.....))))).)). -16.30  
>ENSMUSG00000044051 hs-mir-19b 1454 1461  
UGUGCAAUCCAUGCAAACUGA&GUGUGGUUCUGAUGGCCAGCGCGGGGCAGAAGCGUUUUGCACAC  
(((((((.....&.....))))).)). - 19.20  
mir-19b ENSRNOG00000004423 2000 nt UTR 2 hits 126 1441

-----1-----  
-----  
>ENSRNOG00000004423 hs-mir-19b 126 133  
UGUGCAAUCCAUGCAAACUGA&UCUUGUUUCCUGGAACUGAAAAGUUGGAAUCUUGUUUUGCACU  
.((((((((((((((.....&..))))).))))). -15.79  
>ENSRNOG00000004423 hs-mir-19b 1441 1448  
UGUGCAAUCCAUGCAAACUGA&UGUGGGUCUGAUGGCCAGCGUGCAGGGCAGAGCAUUUUGCACAC  
((((((((((((((.....&..))))).))))). -  
22.40

miRNA: mir-19b

Human predicted target: ENSG00000180592

Mouse predicted target: ENSMUSG00000048466

Rat predicted target: ENSRNOG00000000149

mir-19b ENSG00000180592 2000 nt UTR 2 hits 1445 1561

-----1-----  
-----  
>ENSG00000180592 hs-mir-19b 1445 1452  
UGUGCAAUCCAUGCAAACUGA&CUACUGCAAGUGACAAUCAGAGGUGACUAUCUAUUAUUUGCACU  
.((((((((((((((.....&..))))).))))). -16.34  
>ENSG00000180592 hs-mir-19b 1561 1568  
UGUGCAAUCCAUGCAAACUGA&GUGAUGAUGGAAGCAGUAAAUCAAAUAUGGAAAUUUGCACU  
.((((((((((((((.....&..))))).))))). -18.30  
mir-19b ENSMUSG00000048466 3521 nt UTR 3 hits 1105 1215 3446

-----1-----  
-----  
>ENSMUSG00000048466 hs-mir-19b 1105 1112  
UGUGCAAUCCAUGCAAACUGA&CUACUGCAAGUGACAAUCAGAGGUGACUAUCUAUUAUUUGCACU  
.((((((((((((((.....&..))))).))))). -16.34  
>ENSMUSG00000048466 hs-mir-19b 1215 1222  
UGUGCAAUCCAUGCAAACUGA&GUAAGAUGAGAGCAGUAAAUCAAAUAUGGAAAUUUGCACU  
.((((((((((((((.....&..))))).))))). -18.30  
>ENSMUSG00000048466 hs-mir-19b 3446 3453  
UGUGCAAUCCAUGCAAACUGA&UGGAAAUUUCUACUGAUAUGCGAAUGGGAGUUUUGUUUGCACAC  
((((((((((((((.....&..))))).))))). -  
19.31  
mir-19b ENSRNOG00000000149 2000 nt UTR 2 hits 1093 1255

-----1-----  
-----  
>ENSRNOG00000000149 hs-mir-19b 1093 1100  
UGUGCAAUCCAUGCAAACUGA&UUCUACUGCAAGUGACAAUCAGAGGUGACUCUAUUAUUUGCACU  
.((((((((((((((.....&..))))).))))). -17.50  
>ENSRNOG00000000149 hs-mir-19b 1255 1262  
UGUGCAAUCCAUGCAAACUGA&GUAAGACAAGAGCAGUAAAUCAAAACUAUGGAAAUUUGCACU  
.((((((((((((((.....&..))))).))))). -18.20

miRNA: mir-19b

Human predicted target: ENSG00000182255

Mouse predicted target: ENSMUSG00000042604

Rat predicted target: ENSRNOG00000004918

Hs Gene description: POTASSIUM VOLTAGE-GATED CHANNEL SUBFAMILY A MEMBER 4 (POTASSIUM CHANNEL KV1.4) (HK1) (HPCN2) (HBK4) (HUKII).

[Source:SWISSPROT;Acc:P22459] NM\_002233

mir-19b ENSG00000182255 2499 nt UTR 2 hits 243 744

-----1-----1-----  
-----  
>ENSG00000182255 hs-mir-19b 243 250  
UGUGCAAUCCAUGCAAACUGA&AAUCUAUCUUUAUUAUUUUUAUUAGAAUGCAAGAAUUUUGCACAU  
((((((((((..(((((...(((.&.....))))))..)))).)...)))))))). -  
19.20

>ENSG00000182255 hs-mir-19b 744 751  
UGUGCAAUCCAUGCAAACUGA&UUUGUUUGCAGGUAACAGGACUGGAUUUUUUUUUCUUUGCACU  
((((((((((((((.....&.....)))))).....))))). -18.60

mir-19b ENSMUSG00000042604 2000 nt UTR 2 hits 245 750

-----1-----1-----  
-----  
>ENSMUSG00000042604 hs-mir-19b 245 252  
UGUGCAAUCCAUGCAAACUGA&AUCUAUCUUUAUUAUUUUUAUUAGAAUGCAAGAAUUUUGCACAU  
((((((((((..(((((...(((.&.....))))))..)))).)...)))))))). -  
18.70

>ENSMUSG00000042604 hs-mir-19b 750 757  
UGUGCAAUCCAUGCAAACUGA&UUGUUCACAGGUCUAAAACUGGAUUUUUUUUUCUUUGCACU  
((((((((((((((.....(((&.....)))).....))))). -16.23

mir-19b ENSRNOG00000004918 3088 nt UTR 2 hits 241 742

-----1-----1-----  
-----  
>ENSRNOG00000004918 hs-mir-19b 241 248  
UGUGCAAUCCAUGCAAACUGA&AUCUAUCUUUAUUAUUUUUAUUAGAAUGCAAGAAUUUUGCACAU  
((((((((((..(((((...(((.&.....))))))..)))).)...)))))))). -  
18.70

>ENSRNOG00000004918 hs-mir-19b 742 749  
UGUGCAAUCCAUGCAAACUGA&UGUUCACAGGUCUUAAGACUGGAUUUUUUUUUCUUUGCACU  
((((((((((((((.....(((&.....)))).....))))). -16.13

miRNA: mir-20

Human predicted target: ENSG00000006062

Mouse predicted target: ENSMUSG00000020941

Rat predicted target: ENSRNOG00000003278

Hs Gene description: MITOGEN-ACTIVATED PROTEIN KINASE KINASE KINASE 14 (EC 2.7.1.37) (NF- KAPPA BETA-INDUCING KINASE) (SERINE/THREONINE PROTEIN KINASE NIK) (HSNIK). [Source:SWISSPROT;Acc:Q99558] NM\_003954

mir-20 ENSG00000006062 3508 nt UTR 2 hits 1008 1034

-----11-----

>ENSG00000006062 hs-mir-20 1008 1015  
UAAAGUGCUUAUAGUGCAGGUAG&CCUGCCCUGCCCCUGGCCAGAGGGUACUGCCGACGGCACUUUGC  
((((((((((..((((((..((((((&.....)))))).....)))))).....)))))).. -  
22.92

>ENSG00000006062 hs-mir-20 1034 1041  
UAAAGUGCUUAUAGUGCAGGUAG&CUGCCGACGGCACUUUGCACUCUGAUGACCUCAAAGCACUUUC  
..((((((((((..((((((..((((((&)))))).....)))))).....))))))..... -25.00  
mir-20 ENSMUSG00000020941 2000 nt UTR 2 hits 815 841

-----11-----

>ENSMUSG00000020941 hs-mir-20 815 822  
UAAAGUGCUUAUAGUGCAGGUAG&AUCCAGCAUGGUGUGGCAAGGCAUUGCCAGCAGCAGCACUUUGC  
((((((((((.....((((((..((((((&.....)))))).....)))))).....)))))).. -  
21.20

>ENSMUSG00000020941 hs-mir-20 841 848  
UAAAGUGCUUAUAGUGCAGGUAG&CCAGCAGCAGCACUUUGCACUCAGGUGACCUCAAAGCACUUUC  
..((((((((((..((((((((..&.....)))))).....)))))).....))))))..... -20.34  
mir-20 ENSRNOG00000003278 3053 nt UTR 4 hits 667 693 1783 1809

-----11-----11-----

>ENSRNOG00000003278 hs-mir-20 667 674  
UAAAGUGCUUAUAGUGCAGGUAG&GCCACCCUCUGGGGGUGGCAAGACACUGCCAGCAGCACUUUGC  
((((((((((.....((((((..((((((&.....)))))).....)))))).....)))))).. -  
21.50

>ENSRNOG00000003278 hs-mir-20 693 700  
UAAAGUGCUUAUAGUGCAGGUAG&CUGCCAGCAGCACUUUGCACUCUGAUGACCUCAAAGCACUUUC  
..((((((((((..((((((..((((((&)))))).....)))))).....))))))..... -22.80

>ENSRNOG00000003278 hs-mir-20 1783 1790  
UAAAGUGCUUAUAGUGCAGGUAG&CAUGCCAGCCUCAUGGUGGCAAGACACUGCCAGCAGCACUUUGC  
((((((((((.....((((((..((((((&.....)))))).....)))))).....)))))).. -  
21.50

>ENSRNOG00000003278 hs-mir-20 1809 1816  
UAAAGUGCUUAUAGUGCAGGUAG&CUGCCAGCAGCACUUUGCACUCUGAUGACCUCAAAGCACUUUC  
..((((((((((..((((((..((((((&)))))).....)))))).....))))))..... -22.80

miRNA: mir-20

Human predicted target: ENSG00000049759

Mouse predicted target: ENSMUSG00000024589

Rat predicted target: ENSRNOG00000017610

Hs Gene description: UBIQUITIN-PROTEIN LIGASE NEDD4-LIKE; NEURAL PRECURSOR  
CELL EXPRESSED, DEVELOPMENTALLY DOWN-REGULATED GENE 4-LIKE; POTENTIAL  
EPITHELIAL SODIUM CHANNEL REGULATOR; HOMOLOG OF YEAST UBIQUITIN-PROTEIN  
LIGASE RSP5. [Source:RefSeq;Acc:NM\_015277]

mir-20 ENSG00000049759 3888 nt UTR 2 hits 47 1045

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

>ENSG00000049759 hs-mir-20 47 54  
UAAAGUGCUUAUAGUGCAGGUAG&CUCGGGGGUGGUUGUUCUUC AAGCAAGUUCUGCUUGCACUUUU  
.(((((((.....(((((&.....)))))))).))))). -17.30  
>ENSG00000049759 hs-mir-20 1045 1052  
UAAAGUGCUUAUAGUGCAGGUAG&AACCAGUUUUUGUUGUAAAUGCACCAAUUCUGAAGGCACUUUAU  
(((((((.....(((((&.....)))))))).))))). -  
21.50  
mir-20 ENSMUSG00000024589 2421 nt UTR 2 hits 48 1020

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

>ENSMUSG00000024589 hs-mir-20 48 55  
UAAAGUGCUUAUAGUGCAGGUAG&CGUCCGGGGCACUGCCCUUCCAGCAAGUCCAAGCGCACUUUU  
.(((((((.....(((((&.....)))))))).))))). -18.55  
>ENSMUSG00000024589 hs-mir-20 1020 1027  
UAAAGUGCUUAUAGUGCAGGUAG&AACCUUCCUUUGCUGUAUCUGCGUCCCUUCUGAAGGCACUUUAU  
(((((((.....(((((&.....)))))))).))))). -  
25.90  
mir-20 ENSRNOG00000017610 2000 nt UTR 2 hits 50 1018

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

>ENSRNOG00000017610 hs-mir-20 50 57  
UAAAGUGCUUAUAGUGCAGGUAG&GCGUCAGGGCACCGCCCUUCCAGCAAGGUCCGCGUGCACUUUU  
.(((((((.....(((((&.....)))))))).))))). -17.00  
>ENSRNOG00000017610 hs-mir-20 1018 1025  
UAAAGUGCUUAUAGUGCAGGUAG&AACCCUUCUUUGCUGUAUCCUCGUCCCUUCUGAAGGCACUUUAC  
(((((((.....(((((&.....)))))))).))))). -  
20.60

miRNA: mir-20  
Human predicted target: ENSG00000100784  
Mouse predicted target: ENSMUSG00000021180  
Rat predicted target: ENSRNOG00000004362  
Hs Gene description: RIBOSOMAL PROTEIN S6 KINASE, 90KDA, POLYPEPTIDE 5;  
MITOGEN- AND STRESS-ACTIVATED PROTEIN KINASE 1; RIBOSOMAL PROTEIN S6  
KINASE, 90KD, POLYPEPTIDE 5. [Source:RefSeq;Acc:NM\_004755] NM\_004755  
mir-20 ENSG00000100784 3268 nt UTR 3 hits 757 1142 2357

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

>ENSG00000100784 hs-mir-20 757 764  
UAAAGUGCUUAUAGUGCAGGUAG&AUUAAGGUACAUGUCUCUCUGUUUUAAGUAAUAUUGCACUUUAU  
(((((((.....(((((&.....)))))))).))))). -  
17.30  
>ENSG00000100784 hs-mir-20 1142 1149  
UAAAGUGCUUAUAGUGCAGGUAG&AAAUCCAGAAAGCAUAUUUUAUAAACUUAUGCAGAGCACUUUU

```

((((((((((((((.....((((...((&.....)))))))))))). -18.50
>ENSG00000100784 hs-mir-20 2357 2364
UAAAGUGCUUAUAGUGCAGGUAG&UCCUAUGCAGGCUGUGUAUUAACAUACAGUGAAUUGCACUUUAA
((((((((((((((((.....&.....)))))))))). -
18.55
mir-20 ENSMUSG00000021180 3662 nt UTR 2 hits 705 1081
-----1-----1-----
>ENSMUSG00000021180 hs-mir-20 705 712
UAAAGUGCUUAUAGUGCAGGUAG&AUUAAGGUACAUGUCUCUUGGUUUUAUGUAAUAUGGCACUUUUAU
((((((((((((((((.....&.....)))))))))). -
19.20
>ENSMUSG00000021180 hs-mir-20 1081 1088
UAAAGUGCUUAUAGUGCAGGUAG&UAAAAUCCACAGAGCAUUUUUAUAACUUAUGCAGAGCACUUUU
((((((((((((((((.....((((...((&.....)))))))))))). -18.50
mir-20 ENSRNOG00000004362 2000 nt UTR 2 hits 720 1069
-----1-----1-----
>ENSRNOG00000004362 hs-mir-20 720 727
UAAAGUGCUUAUAGUGCAGGUAG&GUUAAGGUACAUGUCUCUUGGUUUUAUGUAACAUGGCACUUUUAU
((((((((((((((((.....&.....)))))))))). -
18.80
>ENSRNOG00000004362 hs-mir-20 1069 1076
UAAAGUGCUUAUAGUGCAGGUAG&CUUGACCCACACCGCAUUUUUAUAACUUAUGCAGAGCACUUUU
((((((((((((((((.....((((...((&.....)))))))))))). -20.13

```

miRNA: mir-20

Human predicted target: ENSG00000101412

Mouse predicted target: ENSMUSG00000027490

Rat predicted target: ENSRNOG00000016708

Hs Gene description: TRANSCRIPTION FACTOR E2F1 (E2F-1) (RETINOBLASTOMA BINDING PROTEIN 3) (RBBP-3) (PRB-BINDING PROTEIN E2F-1) (PBR3) (RETINOBLASTOMA-ASSOCIATED PROTEIN 1) (RBAP-1).

[Source:SWISSPROT;Acc:Q01094] NM\_005225

```

mir-20 ENSG00000101412 2000 nt UTR 2 hits 387 980
-----1-----1-----

```

```

>ENSG00000101412 hs-mir-20 387 394
UAAAGUGCUUAUAGUGCAGGUAG&AUGAGUCCAUGUGUGCGCGUGGGGGGGCUCUAACUGCACUUUC
((((((((((((((((.....&.....)))))))))). -18.20
>ENSG00000101412 hs-mir-20 980 987
UAAAGUGCUUAUAGUGCAGGUAG&CUGCCUCCCACUGCUCUGCCCCACCCUCCAUCUGCACUUUGA
((((((((((((((((.....((((...((&)))))))))))))). -
21.45
mir-20 ENSMUSG00000027490 2626 nt UTR 2 hits 470 985
-----1-----1-----

```



>ENSMUSG00000027490 hs-mir-20 470 477  
UAAAGUGCUUAUAGUGCAGGUAG&AUGUGUGCGCAUUGGGGUGGGGUGGGCUCUAACUGCACUUUU  
((((((((((...(((.(.....&.....)))))))).)))). -18.20  
>ENSMUSG00000027490 hs-mir-20 985 992  
UAAAGUGCUUAUAGUGCAGGUAG&AGUGCUCUCUGCUGUCCUCCCCACCCUCCAGUCUGCACUUUGA  
((((((((((...(((.(.....&.....)))))))).)))). -  
17.90  
mir-20 ENSRNOG00000016708 2000 nt UTR 2 hits 383 902

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

>ENSRNOG00000016708 hs-mir-20 383 390  
UAAAGUGCUUAUAGUGCAGGUAG&CAUGUGUGCGCAUUGGGGUGGGGUGGGCUCUAACAGCACUUUU  
((((((((((...(((.(.....&.....)))))))).)))). -18.90  
>ENSRNOG00000016708 hs-mir-20 902 909  
UAAAGUGCUUAUAGUGCAGGUAG&UGGAGCGCUCCACUGCCCUUCCCACUGGCCAGUCUGCACUUUGG  
((((((((((...(((.(.....&.....)))))))).)))). -  
22.00

miRNA: mir-20

Human predicted target: ENSG00000103479  
Mouse predicted target: ENSMUSG00000031666  
Rat predicted target: ENSRNOG00000012153  
Hs Gene description: RETINOBLASTOMA-LIKE PROTEIN 2 (130 KDA  
RETINOBLASTOMA-ASSOCIATED PROTEIN) (PRB2) (P130) (RBR-2).  
[Source:SWISSPROT;Acc:Q08999] NM\_005611

mir-20 ENSG00000103479 2000 nt UTR 2 hits 634 695  
-----1-1-----

-----

>ENSG00000103479 hs-mir-20 634 641  
UAAAGUGCUUAUAGUGCAGGUAG&GUGUGCAAUGUCUGAGUGAACCUGUAUAAGUGGAGGCACUUUAG  
((((((((((...(((.(.....&.....)))))))).)))). -  
26.80  
>ENSG00000103479 hs-mir-20 695 702  
UAAAGUGCUUAUAGUGCAGGUAG&UUUUGUAACCCAGAUUUUUGCUGUAUAUUUGUGAUAGCACUUUC  
((((((((((...(((.(.....&.....)))))))).)))). -19.50  
mir-20 ENSMUSG00000031666 2565 nt UTR 2 hits 690 751

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

>ENSMUSG00000031666 hs-mir-20 690 697  
UAAAGUGCUUAUAGUGCAGGUAG&GCGUGCAAUGUCUGAAGGAACCUGUGUAUUUGGUGGCACUUUAU  
((((((((((...(((.(.....&.....)))))))).)))). -  
24.90  
>ENSMUSG00000031666 hs-mir-20 751 758  
UAAAGUGCUUAUAGUGCAGGUAG&CAUUGUGACCCAGGGUUUUGCUGUAUAUUUAUGAUGGCACUUUC  
((((((((((...(((.(.....&.....)))))))).)))). -19.50  
mir-20 ENSRNOG00000012153 3206 nt UTR 4 hits 538 599 1804 1865

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

>ENSRNOG00000012153 hs-mir-20 538 545  
UAAAGUGCUUAUAGUGCAGGUAG&GCCGUGCAUGUCUGAGUGAACCUGUGUACUUGGUGGCACUUUAG  
((((((((((...((((((((((...&.....)))))))).))))).))))). -  
25.80  
>ENSRNOG00000012153 hs-mir-20 599 606  
UAAAGUGCUUAUAGUGCAGGUAG&CAUUGUGACCCAGAUUUUGCUGUAUAUUUAUGGUGGCACUUUC  
.((((((((((...&.....)))))))).))))). -19.50  
>ENSRNOG00000012153 hs-mir-20 1804 1811  
UAAAGUGCUUAUAGUGCAGGUAG&GCCGUGCAUGUCUGAGUGAACCUGUGUACUUGGUGGCACUUUAG  
((((((((((...((((((((((...&.....)))))))).))))).))))). -  
25.80  
>ENSRNOG00000012153 hs-mir-20 1865 1872  
UAAAGUGCUUAUAGUGCAGGUAG&CAUUGUGACCCAGAUUUUGCUGUAUAUUUAUGGUGGCACUUUC  
.((((((((((...&.....)))))))).))))). -19.50

miRNA: mir-20  
Human predicted target: ENSG00000109189  
Mouse predicted target: ENSMUSG00000048255  
Rat predicted target: ENSRNOG00000002106  
Hs Gene description: NM\_022832

mir-20 ENSG00000109189 4611 nt UTR 3 hits 1488 1789 3367  
-----1-----1--  
-----1-----

>ENSG00000109189 hs-mir-20 1488 1495  
UAAAGUGCUUAUAGUGCAGGUAG&AUGUUAGUGGCCAUUUUGCAACAAUGAAGAGGAUAGCACUUUUAU  
((((((((((...((((((((((...&.....)))))))).))))).))))). -  
19.21  
>ENSG00000109189 hs-mir-20 1789 1796  
UAAAGUGCUUAUAGUGCAGGUAG&CUGGAAGGUGAGUUUUGAUCUCUUUUUAAGGAGAGGCACUUUC  
.((((((((((...&.....)))))))).))))). -14.70  
>ENSG00000109189 hs-mir-20 3367 3374  
UAAAGUGCUUAUAGUGCAGGUAG&CUGUACCUUAAUUUUUAAAUGUAACCAAUUCAAGCACUUUAA  
((((((((((...((((((((((...&.....)))))))).))))).))))). -  
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

miRNA: mir-20  
Human predicted target: ENSG00000111540  
Mouse predicted target: ENSMUSG00000000711  
Rat predicted target: ENSRNOG000000006130  
Hs Gene description: RAS-RELATED PROTEIN RAB-5B.  
[Source:SWISSPROT;Acc:P35239]

mir-20 ENSG00000111540 4491 nt UTR 2 hits 145 964  
-----1-----1-----  
-----

>ENSG00000111540 hs-mir-20 145 152  
UAAAGUGCUUAUAGUGCAGGUAG&GCUCCEAAGGGCUGCCUCCUGACAGCUCCGUCAUGGCACUUUU  
.((((((((((..(((((((((&.....)))))).....)))))))). -20.41  
>ENSG00000111540 hs-mir-20 964 971  
UAAAGUGCUUAUAGUGCAGGUAG&GCCUCAGCCCCAGCCACCAUAUACCCUGCAGUUUGCACUUUAA  
((((((((((..(((((((((..&.....)))))).....)))))))). -  
25.20

mir-20 ENSMUSG00000000711 2009 nt UTR 2 hits 144 937  
-----1-----1-----  
-----

>ENSMUSG00000000711 hs-mir-20 144 151  
UAAAGUGCUUAUAGUGCAGGUAG&GCUCCEAAGGGCUGCCUCCUGACAGCUCCGUCAUGGCACUUUU  
.((((((((((..(((((((((&.....)))))).....)))))))). -20.41  
>ENSMUSG00000000711 hs-mir-20 937 944  
UAAAGUGCUUAUAGUGCAGGUAG&UGGCCUUAACCCAGACACCAUGCCCCUGCAGUUUGCACUUUAA  
((((((((((..(((((((((..&.....)))))).....)))))))). -  
25.20

mir-20 ENSRNOG000000006130 3643 nt UTR 3 hits 151 937 1884  
-----1-----1-----  
-----

>ENSRNOG000000006130 hs-mir-20 151 158  
UAAAGUGCUUAUAGUGCAGGUAG&GCUCCEAAGGGCUGCCUCCUGACAGCUCCGUCAUGGCACUUUU  
.((((((((((..(((((((((&.....)))))).....)))))))). -20.41  
>ENSRNOG000000006130 hs-mir-20 937 944

UAAAGUGCUUAUAGUGCAGGUAG&UGGCCUUAACCCCAGACACCAUGCCCCUGCAGUUUGCACUUUAA  
((((((((.....(((((.....&.....)))))).)))).) -  
25.20

>ENSRNOG0000006130 hs-mir-20 1884 1891  
UAAAGUGCUUAUAGUGCAGGUAG&UGGCCUUAACCCCAGACACCAUGCCCCUGCAGUUUGCACUUUAA  
((((((((.....(((((.....&.....)))))).)))).) -  
25.20

miRNA: mir-20

Human predicted target: ENSG00000117289

Mouse predicted target: ENSMUSG00000038393

Rat predicted target: ENSRNOG00000021201

Hs Gene description: THIOREDOXIN INTERACTING PROTEIN; UPREGULATED BY 1,25-DIHYDROXYVITAMIN D-3. [Source:RefSeq;Acc:NM\_006472] NM\_006472

mir-20 ENSG00000117289 3417 nt UTR 2 hits 796 1193

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

>ENSG00000117289 hs-mir-20 796 803  
UAAAGUGCUUAUAGUGCAGGUAG&AAGUCCUUGAAUUGAUUCUAAGGUGAUGUUCUAGCACUUUAA  
((((((((.....(((((.....&.....)))))).)))).) -  
18.20

>ENSG00000117289 hs-mir-20 1193 1200  
UAAAGUGCUUAUAGUGCAGGUAG&AGCUGCCAGCACUUGGUCAGUCACUCUCAGCCAUAGCACUUUGU  
((((((((.....(((((.....&.....)))))).)))).) -  
26.15

mir-20 ENSMUSG00000038393 3337 nt UTR 2 hits 712 1130

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

>ENSMUSG00000038393 hs-mir-20 712 719  
UAAAGUGCUUAUAGUGCAGGUAG&AACCCUUGAAUUGAUUCUAAGGUGAUGUUCUAGCACUUUAG  
((((((((.....(((((.....&.....)))))).)))).) -  
18.20

>ENSMUSG00000038393 hs-mir-20 1130 1137  
UAAAGUGCUUAUAGUGCAGGUAG&GCCUCAGCCUGGCUCGGAAGCUCACUAAGCCUAGCACUUUGU  
((((((((.....(((((.....&.....)))))).)))).) -  
20.90

mir-20 ENSRNOG00000021201 2072 nt UTR 2 hits 539 981

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

>ENSRNOG00000021201 hs-mir-20 539 546  
UAAAGUGCUUAUAGUGCAGGUAG&GACUCCUAGAAUUGAUUCUAAGGUGAUGUUCUUGGCACUUUAG  
((((((((.....(((((.....&.....)))))).)))).) -  
18.20

>ENSRNOG00000021201 hs-mir-20 981 988  
UAAAGUGCUUAUAGUGCAGGUAG&GUGGCCUCUAGCACUCCAAAACUACUCCGCCUAGCACUUUGU  
((((((((.....(((((.....&.....)))))).)))).) -  
22.35

miRNA: mir-20

Human predicted target: ENSG00000119414

Mouse predicted target: ENSMUSG00000026753

Rat predicted target: ENSRNOG00000015145

Hs Gene description: SERINE/THREONINE PROTEIN PHOSPHATASE 6 (EC 3.1.3.16) (PP6). [Source:SWISSPROT;Acc:O00743] NM\_002721

mir-20 ENSG00000119414 2545 nt UTR 2 hits 89 1419

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

>ENSG00000119414 hs-mir-20 89 96  
UAAAGUGCUUAUAGUGCAGGUAG&UCUUGUAUACCCUCUACAAUAUACUUUUUAUUGAGCACUUUGC  
((((((((((((((((((((((((((...&)))))))))))).)))))))))))). -  
22.54

>ENSG00000119414 hs-mir-20 1419 1426  
UAAAGUGCUUAUAGUGCAGGUAG&CCAGGAAAUAUUGUGAAGCCAGCCAAUUAUAAAGCACUUUAG  
((((((((((((((((((((((((((...&)))))))))))).)))))))))))). -  
20.70

mir-20 ENSMUSG00000026753 2670 nt UTR 2 hits 83 1417

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

>ENSMUSG00000026753 hs-mir-20 83 90  
UAAAGUGCUUAUAGUGCAGGUAG&CUUUCUUGUACCCUCUACAAUAUACUUUUUAUUGAGCACUUUGC  
((((((((((((((((((((((((((...&)))))))))))).)))))))))))). -  
21.20

>ENSMUSG00000026753 hs-mir-20 1417 1424  
UAAAGUGCUUAUAGUGCAGGUAG&CAUCCUAGGAAAUCCAUGUGAAGUCGAUUGAUAAAGCACUUUAG  
((((((((((((((((((((((((((...&)))))))))))).)))))))))))). -  
16.90

mir-20 ENSRNOG00000015145 4943 nt UTR 4 hits 85 1394 2761 3610

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

>ENSRNOG00000015145 hs-mir-20 85 92  
UAAAGUGCUUAUAGUGCAGGUAG&CUUUCUUGUACCCUCUACAAUAUACUUUUUAUUGAGCACUUUGC  
((((((((((((((((((((((((((...&)))))))))))).)))))))))))). -  
21.20

>ENSRNOG00000015145 hs-mir-20 1394 1401  
UAAAGUGCUUAUAGUGCAGGUAG&AUCCAGGAAAUCCAUGUGAAGGCUGAUUGAUAAAGCACUUUAG  
((((((((((((((((((((((((((...&)))))))))))).)))))))))))). -  
19.70

>ENSRNOG00000015145 hs-mir-20 2761 2768  
UAAAGUGCUUAUAGUGCAGGUAG&UGUACUGUGAAAGCCUGCCGUCAGAAGUAGAAGCACUUUU  
((((((((((((((((((((((((((...&)))))))))))).)))))))))))). -27.10

>ENSRNOG00000015145 hs-mir-20 3610 3617  
UAAAGUGCUUAUAGUGCAGGUAG&AUCCAGGAAAUCCAUGUGAAGGCUGAUUGAUAAAGCACUUUAG

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

miRNA: mir-20

Human predicted target: ENSG00000119508

Mouse predicted target: ENSMUSG00000028341

Rat predicted target: ENSRNOG00000005964

Hs Gene description: NUCLEAR HORMONE RECEPTOR NOR-1 (NEURON-DERIVED ORPHAN RECEPTOR 1) (MITOGEN INDUCED NUCLEAR ORPHAN RECEPTOR).

[Source:SWISSPROT;Acc:Q92570] NM\_173199

mir-20 ENSG00000119508 5024 nt UTR 2 hits 284 1578

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

>ENSG00000119508 hs-mir-20 284 291  
UAAAGUGCUUAUAGUGCAGGUAG&AGUUCAUGAGGGUUUCUAAGAAUUGCUAACAAAGCACUUUU  
.((((((((((((.....(((.(..&.....))))).))))))))). -18.30

>ENSG00000119508 hs-mir-20 1578 1585  
UAAAGUGCUUAUAGUGCAGGUAG&UUCAUUUGCAGUGACUUUUAAGGCAGUACUGUUUAGCACUUUGA  
((((((((((((.....(((.(..&.....))))).))))))))). -  
24.00

mir-20 ENSMUSG00000028341 2000 nt UTR 2 hits 291 1650

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

>ENSMUSG00000028341 hs-mir-20 291 298  
UAAAGUGCUUAUAGUGCAGGUAG&AGUUCAUGAGGCUUUUCUAAGAAUUGCUGACAAAGCACUUUU  
.((((((((((((.....(((.(..&.....))))).))))))))). -18.30

>ENSMUSG00000028341 hs-mir-20 1650 1657  
UAAAGUGCUUAUAGUGCAGGUAG&UUCACUUGCAGUGACCUUUAAGGCAGCACUGUUUAGCACUUUGA  
((((((((((((.....(((.(..&.....))))).))))))))). -  
27.50

mir-20 ENSRNOG00000005964 3812 nt UTR 2 hits 290 1599

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

>ENSRNOG00000005964 hs-mir-20 290 297  
UAAAGUGCUUAUAGUGCAGGUAG&AGUUCAUGAGGCUUUUCUAAGAAUUGCUGACGAAGCACUUUU  
.((((((((((((.....(((.(..&.....))))).))))))))). -19.40

>ENSRNOG00000005964 hs-mir-20 1599 1606  
UAAAGUGCUUAUAGUGCAGGUAG&UUUGUUUGCAGUGACCUUUAAGGCAGCACUGUUUAGCACUUUGA  
((((((((((((.....(((.(..&.....))))).))))))))). -  
27.50

miRNA: mir-20

Human predicted target: ENSG00000124201

Mouse predicted target: ENSMUSG00000039501

Rat predicted target: ENSRNOG00000008194

Hs Gene description: NM\_021035

mir-20 ENSG00000124201 2000 nt UTR 3 hits 484 979 1324

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

>ENSG00000124201 hs-mir-20 484 491  
UAAAGUGCUUAUAGUGCAGGUAG&CAUUUGUUUCUAGAUUUACCCUGCGCUAGAGUAAGCACUUUAU  
((((((((((((((((((((((((((...&.....)))))))))))))...)))))))). -  
32.30

>ENSG00000124201 hs-mir-20 979 986  
UAAAGUGCUUAUAGUGCAGGUAG&GUCGUCAUUAAGGAGUGACCCCUUUCUGUAACCUGCACUUUGG  
((((((((((((((((((((((((((...&.....)))))))))))))...)))))))). -  
21.90

>ENSG00000124201 hs-mir-20 1324 1331  
UAAAGUGCUUAUAGUGCAGGUAG&CCUAUGUAUGCAUUUCCUUUUUUUGUCUUUACUAUGCACUUUAG  
((((((((((((((((((((((((((...&.....)))))))))))))...)))))))). -  
20.50

mir-20 ENSMUSG00000039501 2926 nt UTR 3 hits 164 886 2587

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

>ENSMUSG00000039501 hs-mir-20 164 171  
UAAAGUGCUUAUAGUGCAGGUAG&ACAUGUGAUUCUAUAUGUACCCUGCGCUAGAGUAAGCACUUUAC  
((((((((((((((((((((((((((...&.....)))))))))))))...)))))))). -  
32.20

>ENSMUSG00000039501 hs-mir-20 886 893  
UAAAGUGCUUAUAGUGCAGGUAG&UUAUUGUAUGCAUUUCCUUUUUUUGUCUUUACUAUGCACUUUAA  
((((((((((((((((((((((((((...&.....)))))))))))))...)))))))). -  
20.50

>ENSMUSG00000039501 hs-mir-20 2587 2594  
UAAAGUGCUUAUAGUGCAGGUAG&GAGCGAGCAUGGACAAGGGUGCUUUCGUGAGCGGCACUUUAA  
((((((((((((((((((((((((((...&.....)))))))))))))...)))))))). -  
19.60

mir-20 ENSRNOG00000008194 2000 nt UTR 3 hits 165 867 1140

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

>ENSRNOG00000008194 hs-mir-20 165 172  
UAAAGUGCUUAUAGUGCAGGUAG&ACAUGUGAUUCUAGAUGUACCCUGCGCUAGAGUAAGCACUUUAC  
((((((((((((((((((((((((((...&.....)))))))))))))...)))))))). -  
32.20

>ENSRNOG00000008194 hs-mir-20 867 874  
UAAAGUGCUUAUAGUGCAGGUAG&CUUAUGUAUGCAUUUCCUUUUUUUGUCUUUACUAUGCACUUUAA  
((((((((((((((((((((((((((...&.....)))))))))))))...)))))))). -  
20.50

>ENSRNOG00000008194 hs-mir-20 1140 1147  
UAAAGUGCUUAUAGUGCAGGUAG&AGACGAUAUACCCUGUGCCUAUUCUAAAAGUUCAGCACUUUAC  
((((((((((((((((((((((((((...&.....)))))))))))))...)))))))). -  
22.52

miRNA: mir-20

Human predicted target: ENSG00000124209

Mouse predicted target: ENSMUSG00000027519

Rat predicted target: ENSRNOG00000005762

Hs Gene description: RAS-RELATED PROTEIN RAB-22A (RAB-22).

[Source:SWISSPROT;Acc:Q9UL26] NM\_020673

mir-20 ENSG00000124209 3680 nt UTR 3 hits 341 544 3126

-----1-----1-----  
-----1-----  
>ENSG00000124209 hs-mir-20 341 348  
UAAAGUGCUUAUAGUGCAGGUAG&CAAGAUUUUAUGUAACAUUUGUAAAAGGGAAAAUUAGCACUUUU  
.((((((((.....((((((...&.....)))))).....)))))))). -16.49  
>ENSG00000124209 hs-mir-20 544 551  
UAAAGUGCUUAUAGUGCAGGUAG&CUGAUGGAAAUGAUUUCUUCUGCCAUCUCUAAAGCACUUUU  
.((((((((((.(.((.(.(((&.....))))).))))).....)))))))). -22.40  
>ENSG00000124209 hs-mir-20 3126 3133  
UAAAGUGCUUAUAGUGCAGGUAG&GAUGUUGUUUGAAGUCCUGUUUCCCAUGUGUACGCACUUUC  
.(((((((((.((((((((.....&.....))))).))))).....)))))))). -20.60  
mir-20 ENSMUSG00000027519 5553 nt UTR 3 hits 321 468 2105

-----1-----1-----  
-----1-----  
-----  
>ENSMUSG00000027519 hs-mir-20 321 328  
UAAAGUGCUUAUAGUGCAGGUAG&GUCAGGAUUUCAUGUGUUUUUGUAAAGGGAAAUGAGCACUUUC  
.((((((((((((.....((((((((&.....)))))).....)))))).....)))))))). -22.00  
>ENSMUSG00000027519 hs-mir-20 468 475  
UAAAGUGCUUAUAGUGCAGGUAG&UGGGUGUUCUAGGACAGCUUCCGCCAUCUCUAAAGCACUUUGC  
(((((((((((((.((((((((.....&.....))))).))))).....)))))))). -  
20.90  
>ENSMUSG00000027519 hs-mir-20 2105 2112  
UAAAGUGCUUAUAGUGCAGGUAG&UUCUUUUUAAGAACGCAUAUGAAAAACAGUCAUAGCACUUUU  
.(((((((((((((.((((.....&.....)))))).....)))))).....)))))))). -15.51  
mir-20 ENSRNOG00000005762 2966 nt UTR 4 hits 310 433 1220 1367

-----1-----1-----  
-----1-----1-----  
-----  
>ENSRNOG00000005762 hs-mir-20 310 317  
UAAAGUGCUUAUAGUGCAGGUAG&AAUCAGGAUUCAUGUAUCAUUGUAAAGGGAAACAAGCACUUUC  
.((((((((((((((((.....&.....)))))).....)))))).....)))))))). -15.50  
>ENSRNOG00000005762 hs-mir-20 433 440  
UAAAGUGCUUAUAGUGCAGGUAG&GGGAAGUGAUCACAAGUAGAUGGGUGGUCUCUAAAGCACUUUGA  
(((((((((((((.((((((((.....&.....))))).))))).....)))))))). -  
18.50  
>ENSRNOG00000005762 hs-mir-20 1220 1227  
UAAAGUGCUUAUAGUGCAGGUAG&AAUCAGGAUUCAUGUAUCAUUGUAAAGGGAAACAAGCACUUUC  
.((((((((((((((((.....&.....)))))).....)))))).....)))))))). -15.50  
>ENSRNOG00000005762 hs-mir-20 1367 1374



UAAAGUGCUUAUAGUGCAGGUAG&UGGAUGUCCUGGGACAGUUCUCACCGUCUCUAAAGCACUUUGA  
(((((((((((((.....(((((&.....)))))).....)))))))). -  
21.10

miRNA: mir-20

Human predicted target: ENSG00000127152

Mouse predicted target: ENSMUSG00000048251

Rat predicted target: ENSRNOG00000005776

Hs Gene description: B-CELL CLL/LYMPHOMA 11B ISOFORM 2; B-CELL  
LYMPHOMA/LEUKAEMIA 11B; ZINC FINGER PROTEIN HRIT1 ALPHA.

[Source:RefSeq;Acc:NM\_022898] NM\_138576

mir-20 ENSG00000127152 6864 nt UTR 3 hits 658 1376 4626

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

>ENSG00000127152 hs-mir-20 658 665  
UAAAGUGCUUAUAGUGCAGGUAG&UGGAUGUACAGCGGAUAAACAUCUUUCAAGUCGUAGCACUUUGU  
(((((((((((((.....(((((&.....)))))).....)))))))). -  
16.50

>ENSG00000127152 hs-mir-20 1376 1383  
UAAAGUGCUUAUAGUGCAGGUAG&ACUGUUAAGAUUAGACAUUUGAAUUCUGUUGACCCGCACUUUAA  
(((((((((((((.....(((((&.....)))))).....)))))))). -  
18.42

>ENSG00000127152 hs-mir-20 4626 4633  
UAAAGUGCUUAUAGUGCAGGUAG&UAUUGCUUGGUAUUUGUGCUCUGUUUAAGAAACAGGCACUUUU  
.(((((((((((((.....(((((&.....)))))).....)))))))). -20.16  
mir-20 ENSMUSG00000048251 2000 nt UTR 2 hits 679 1393

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

>ENSMUSG00000048251 hs-mir-20 679 686  
UAAAGUGCUUAUAGUGCAGGUAG&UGGAUGUACAGCGGAUUAACAUCUUUAAAUUGUAGCACUUUGU  
(((((((((((((.....(((((&.....)))))).....)))))))). -  
18.20

>ENSMUSG00000048251 hs-mir-20 1393 1400  
UAAAGUGCUUAUAGUGCAGGUAG&CUUGUUGGGAUUUGAUGUUUGAAUUCUGUUGACCCGCACUUUAA  
(((((((((((((.....(((((&.....)))))).....)))))))). -  
18.42

mir-20 ENSRNOG00000005776 2000 nt UTR 2 hits 673 1379

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

>ENSRNOG00000005776 hs-mir-20 673 680  
UAAAGUGCUUAUAGUGCAGGUAG&UGGAUGUACAGCGGAUUAACAUCUUUAAAUUGUAGCACUUUGU  
(((((((((((((.....(((((&.....)))))).....)))))))). -  
18.20

>ENSRNOG00000005776 hs-mir-20 1379 1386  
UAAAGUGCUUAUAGUGCAGGUAG&CUUGUUGGGAUUUGAUGUUUGAAUUCUGUUGACCCGCACUUUAA

((((((((.....((((((...&.....)))))).....)))))))). -  
18.42

miRNA: mir-20

Human predicted target: ENSG00000140526

Mouse predicted target: ENSMUSG00000039202

Rat predicted target: ENSRNOG00000017120

Hs Gene description: ABHYDROLASE DOMAIN CONTAINING PROTEIN 2 (PROTEIN PPHP1-2). [Source:SWISSPROT;Acc:P08910] NM\_007011

mir-20 ENSG00000140526 2328 nt UTR 2 hits 1472 1946

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

>ENSG00000140526 hs-mir-20 1472 1479  
UAAAGUGCUUAUAGUGCAGGUAG&UCCGAUCCUGUGGUACUUGAAUAUCCAAAAACCCUGCACUUUGA  
((((((((.....((((((...&.....)))))).....)))))))). -  
18.60

>ENSG00000140526 hs-mir-20 1946 1953  
UAAAGUGCUUAUAGUGCAGGUAG&UAGGUUUCCUUUUCACGUUCUUUUAGCACAGACUGGCACUUUAC  
((((((((.....((((((...&.....)))))).....)))))))). -  
20.10

mir-20 ENSMUSG00000039202 2523 nt UTR 2 hits 1395 1782

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

>ENSMUSG00000039202 hs-mir-20 1395 1402  
UAAAGUGCUUAUAGUGCAGGUAG&CUGGAACGUUGUGGUACUUGAGUCCCUAAGAACCUGCACUUUGA  
((((((((.....((((((...&.....)))))).....)))))))). -  
18.00

>ENSMUSG00000039202 hs-mir-20 1782 1789  
UAAAGUGCUUAUAGUGCAGGUAG&CCAUUUCUCUGUUGCAUUUCCCUUAGCACAGAUUGGCACUUUUAU  
((((((((.....((((((...&.....)))))).....)))))))). -  
22.90

mir-20 ENSRNOG00000017120 2526 nt UTR 2 hits 1387 1791

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

>ENSRNOG00000017120 hs-mir-20 1387 1394  
UAAAGUGCUUAUAGUGCAGGUAG&CUGGAACCCUGUGGUACUUGAGUCCCUAAGAACCUGCACUUUGG  
((((((((.....((((((...&.....)))))).....)))))))). -  
18.85

>ENSRNOG00000017120 hs-mir-20 1791 1798  
UAAAGUGCUUAUAGUGCAGGUAG&CCAUUUCUCUGUUGCAUUUUCUCUUAGCACAGAUUGGCACUUUUAU  
((((((((.....((((((...&.....)))))).....)))))))). -  
21.70

miRNA: mir-20

Human predicted target: ENSG00000149126

Mouse predicted target: ENSMUSG00000024695

Rat predicted target: ENSRNOG00000012524  
Hs Gene description: ZINC FINGER PROTEIN 91 ISOFORM 1.  
[Source:RefSeq;Acc:NM\_053023]

mir-20 ENSG00000149126 5340 nt UTR 2 hits 504 803

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

>ENSG00000149126 hs-mir-20 504 511  
UAAAGUGCUUAUAGUGCAGGUAG&GAAUUCUAAUCUCUGGAGGCUGGCAGCUUGACUUGGCACUUUAG  
((((((((((...(((.((((...&.....)))))))))).)))))))). -  
23.30

>ENSG00000149126 hs-mir-20 803 810  
UAAAGUGCUUAUAGUGCAGGUAG&CGAUGAGAAAAGUCCCAGGCUAAUGGCAGAAAUUUGCACUUUGA  
((((((((((...(((.((((...&.....)))))))))).)))))))). -  
18.60

mir-20 ENSMUSG00000024695 2110 nt UTR 2 hits 468 754

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

>ENSMUSG00000024695 hs-mir-20 468 475  
UAAAGUGCUUAUAGUGCAGGUAG&UAAUUCUAAUUUCCGGAGGCUGGCAGCUUGACUUGGCACUUUAG  
((((((((((...(((.((((...&.....)))))))))).)))))))). -  
23.30

>ENSMUSG00000024695 hs-mir-20 754 761  
UAAAGUGCUUAUAGUGCAGGUAG&CAGUGAGAAAAGUCCCAGGCUAAUGGCAGAAAUUUGCACUUUGA  
((((((((((...(((.((((...&.....)))))))))).)))))))). -  
18.60

mir-20 ENSRNOG00000012524 2000 nt UTR 2 hits 485 778

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

>ENSRNOG00000012524 hs-mir-20 485 492  
UAAAGUGCUUAUAGUGCAGGUAG&UAAUUCUAAUUUCCUGGAGGCUGGCAGCUUAACUUGGCACUUUAG  
((((((((((...(((.((((...&.....)))))))))).)))))))). -  
21.50

>ENSRNOG00000012524 hs-mir-20 778 785  
UAAAGUGCUUAUAGUGCAGGUAG&CAGUGAGAAAAGUCCCAGGCUAAUGGCAGAAAUUUGCACUUUGA  
((((((((((...(((.((((...&.....)))))))))).)))))))). -  
18.60

miRNA: mir-20

Human predicted target: ENSG00000157851

Mouse predicted target: ENSMUSG00000029168

Rat predicted target: ENSRNOG00000008996

Hs Gene description: DIHYDROPYRIMIDINASE RELATED PROTEIN-5 (DRP-5) (ULIP6  
PROTEIN) (COLLAPSIN RESPONSE MEDIATOR PROTEIN-5) (CRMP-5).

[Source:SWISSPROT;Acc:Q9BPU6]

mir-20 ENSG00000157851 3205 nt UTR 2 hits 185 389

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

>ENSG00000157851 hs-mir-20 185 192  
UAAAGUGCUUAUAGUGCAGGUAG&AAGUGAUUCACUGUGCUUCGAGCCAACUCUAACAGGCACUUUGA  
((((((((((..((..(((.....&.....)))))).....)))))))). -  
21.77

>ENSG00000157851 hs-mir-20 389 396  
UAAAGUGCUUAUAGUGCAGGUAG&GCCUGCCCCUGGCUGACUGGCCAGUUGCCCAGAGCACUUUAG  
((((((((((..(((..(((..(((&.....)))))).....)))))))). -  
23.02

mir-20 ENSMUSG00000029168 4649 nt UTR 2 hits 196 400

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

>ENSMUSG00000029168 hs-mir-20 196 203  
UAAAGUGCUUAUAGUGCAGGUAG&CGUGAUUCACGGGGCUUUGAUCCACCCCUAACAAGGCACUUUGA  
((((((((((..((..(((.....&.....)))))).....)))))))). -  
18.60

>ENSMUSG00000029168 hs-mir-20 400 407  
UAAAGUGCUUAUAGUGCAGGUAG&CUCUGCCCUGGCUGCCCACCCACACAGGUGUCCAGAGCACUUUAG  
((((((((((.....((((((((&..)))))).....)))))))). -  
22.83

mir-20 ENSRNOG00000008996 5030 nt UTR 2 hits 192 395

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

>ENSRNOG00000008996 hs-mir-20 192 199  
UAAAGUGCUUAUAGUGCAGGUAG&CAUGAUUCACGGGGCUUUGAUCCACCCCUAACAAGGCACUUUGA  
((((((((((..((..(((.....&.....)))))).....)))))))). -  
18.60

>ENSRNOG00000008996 hs-mir-20 395 402  
UAAAGUGCUUAUAGUGCAGGUAG&CUCUGCCCUGGCUGCCCAACCAGACAGGUGUCCAGAGCACUUUAG  
((((((((((.....((((((((&..)))))).....)))))))). -  
22.83

miRNA: mir-20  
Human predicted target: ENSG00000158417  
Mouse predicted target: ENSMUSG00000026083  
Rat predicted target: ENSRNOG00000011187  
Hs Gene description: TRANSLATION INITIATION FACTOR IF-2.  
[Source:SWISSPROT;Acc:O60841] NM\_015904

mir-20 ENSG00000158417 2364 nt UTR 2 hits 1678 1758

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

>ENSG00000158417 hs-mir-20 1678 1685  
UAAAGUGCUUAUAGUGCAGGUAG&AACACAAUUAUUUCAUGCAAUACUGACAAAUUUGGCACUUUU  
((((((((((.....((((((((&.....)))))).....)))))))). -18.01

>ENSG00000158417 hs-mir-20 1758 1765  
UAAAGUGCUUAUAGUGCAGGUAG&UUUAAAAUUAUAAAAACUCCGAGCAUUACUAUCAUGCACUUUGC  
(((((((((((((.(((.(((&.....)))))))).)))).)))). -  
20.90

mir-20 ENSMUSG00000026083 2000 nt UTR 2 hits 1225 1306  
-----1--1-----  
-----

>ENSMUSG00000026083 hs-mir-20 1225 1232  
UAAAGUGCUUAUAGUGCAGGUAG&AACACAAUUAUUUACAUGCAAUACUGACAAAUUUGGCACUUUU  
(((((((((((((.(((.(((&.....)))))))).)))).)))). -18.01

>ENSMUSG00000026083 hs-mir-20 1306 1313  
UAAAGUGCUUAUAGUGCAGGUAG&UGUAGAAUUAUGAAAACUCAGAGCAUCACUAUCAUGCACUUUGC  
(((((((((((((.(((.(((.(((&.....)))))))).)))).)))). -  
20.90

mir-20 ENSRNOG00000011187 2000 nt UTR 2 hits 1069 1151  
-----1--1-----  
-----

>ENSRNOG00000011187 hs-mir-20 1069 1076  
UAAAGUGCUUAUAGUGCAGGUAG&AACACAAUUAUUUACAUGCAAUACUGACAAAUUUGGCACUUUU  
(((((((((((((.(((.(((&.....)))))))).)))).)))). -18.01

>ENSRNOG00000011187 hs-mir-20 1151 1158  
UAAAGUGCUUAUAGUGCAGGUAG&UGUAGAAUUAUGAAAACUCAGAGCAUCACUGUCAUGCACUUUGC  
(((((((((((((.(((.(((.(((&.....)))))))).)))).)))). -  
20.90

miRNA: mir-20  
Human predicted target: ENSG00000166090  
Mouse predicted target: ENSMUSG00000040770  
Rat predicted target: ENSRNOG00000016804  
Hs Gene description: INTERLEUKIN-17E PRECURSOR (IL-17E).  
[Source:SWISSPROT;Acc:Q9H293] NM\_172314

mir-20 ENSG00000166090 2523 nt UTR 2 hits 325 1862  
-----1-----  
1-----

>ENSG00000166090 hs-mir-20 325 332  
UAAAGUGCUUAUAGUGCAGGUAG&CUUUUCCCAUCCCGUGCUACCCUGGCCAGCACAGGCACUUUC  
(((((((((((((.(((.(((&.....)))))))).)))).)))). -21.80

>ENSG00000166090 hs-mir-20 1862 1869  
UAAAGUGCUUAUAGUGCAGGUAG&GUCUAACUAUCAAAAAGGGCAGACUUCUGCAACUGCACUUUAU  
(((((((((((((.(((.(((&.....)))))))).)))).)))). -  
24.70

mir-20 ENSMUSG00000040770 2475 nt UTR 3 hits 162 175 322  
-----2--1-----  
-----

>ENSMUSG00000040770 hs-mir-20 162 169  
UAAAGUGCUUAUAGUGCAGGUAG&CAAGAUGGAGGACUUGGGAGAAACUCUGACUUUUGGCACUUUU  
(((((((((((((.(((.(((&.....)))))))).)))).)))). -18.70

>ENSMUSG00000040770 hs-mir-20 175 182  
UAAAGUGCUUAUAGUGCAGGUAG&UUGGGGAGAAACUCUGACUUUUGCACUUUUUGGAAGCACUUUU  
.((((((((((..((((((((((&.....))))))))).....)))))))). -23.60  
>ENSMUSG00000040770 hs-mir-20 322 329  
UAAAGUGCUUAUAGUGCAGGUAG&CUCCUUUCCCCUGAAUCCCCAACUCCUGGCACAGGCACUUUC  
.((((((((((..((((((((((&.....))))))))).....)))))))). -23.00  
mir-20 ENSRNOG00000016804 2003 nt UTR 3 hits 170 183 332

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

>ENSRNOG00000016804 hs-mir-20 170 177  
UAAAGUGCUUAUAGUGCAGGUAG&CAAGAUGGAGGACUUGGGGAGAAACUCUGACUUUUGCACUUUU  
.((((((((((..((((((((((&.....))))))))).....)))))))). -18.70  
>ENSRNOG00000016804 hs-mir-20 183 190  
UAAAGUGCUUAUAGUGCAGGUAG&UUGGGGAGAAACUCUGACUUUUGCACUUUUAAAAGCACUUUU  
.((((((((((..((((((((((&.....))))))))).....)))))))). -22.50  
>ENSRNOG00000016804 hs-mir-20 332 339  
UAAAGUGCUUAUAGUGCAGGUAG&UCUUCUUUCCUCUGAACCCCCCAGCCAGCACUGGCACUUUC  
.((((((((((..((((((((((&.....))))))))).....)))))))). -23.30

miRNA: mir-20

Human predicted target: ENSG00000168090

Mouse predicted target: ENSMUSG00000019494

Rat predicted target: ENSRNOG00000001346

Hs Gene description: COP9 SUBUNIT 6 (MOV34 HOMOLOG, 34 KD).

[Source:RefSeq;Acc:NM\_006833] NM\_006833

mir-20 ENSG00000168090 2118 nt UTR 2 hits 881 2041

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

>ENSG00000168090 hs-mir-20 881 888  
UAAAGUGCUUAUAGUGCAGGUAG&CCCCAGUGUCUAUACUGGGGGCCUGGCAGGGAGAUGCACUUUAC  
((((((((((..((((((((((&.....))))))))).....)))))))). -  
22.10

>ENSG00000168090 hs-mir-20 2041 2048  
UAAAGUGCUUAUAGUGCAGGUAG&CAGUAGGUUGGGUAAUCACACUACCUGCACGAACAGCACUUUGG  
((((((((((..((((((((((&.....))))))))).....)))))))). -  
34.40

mir-20 ENSMUSG00000019494 2107 nt UTR 2 hits 1713 1924

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

>ENSMUSG00000019494 hs-mir-20 1713 1720  
UAAAGUGCUUAUAGUGCAGGUAG&CAGUAGGUCAGGUAAUACACUACCUGCACGAACAGCACUUUGG  
((((((((((..((((((((((&.....))))))))).....)))))))). -  
34.40

>ENSMUSG00000019494 hs-mir-20 1924 1931  
UAAAGUGCUUAUAGUGCAGGUAG&CGGUAGCACAGAGAGGACCACUAUCUGCACUGUCAGCACUUUAG  
((((((((((..((((((((((&.....))))))))).....)))))))). -  
36.80

mir-20 ENSRNOG00000001346 2091 nt UTR 2 hits 1504 1711  
-----1-----1-----  
-----

>ENSRNOG00000001346 hs-mir-20 1504 1511  
UAAAGUGCUUAUAGUGCAGGUAG&GCAGUAGGUCAGGCAAUGCACUACCUGCACGAACAGCACUUUGG  
((((((((((.....(((((((((((&.....)))))))))).....)))))))). -  
34.40

>ENSRNOG00000001346 hs-mir-20 1711 1718  
UAAAGUGCUUAUAGUGCAGGUAG&CGGUAGCACAGAGAGGACCACUAUCUGCACUGUCAGCACUUUAG  
((((((((((.....(((((((((((&.....)))))))))).....)))))))). -  
36.80

miRNA: mir-20  
Human predicted target: ENSG00000175142  
Mouse predicted target: ENSMUSG00000033809  
Rat predicted target: ENSRNOG00000001712  
Hs Gene description: DOLICHYL-P-MAN:MAN(5)GLCNAC(2)-PP-DOLICHYL  
MANNOSYLTRANSFERASE (EC 2.4.1.-) (DOL-P-MAN DEPENDENT ALPHA(1-3)-  
MANNOSYLTRANSFERASE) (NOT56-LIKE PROTEIN). [Source:SWISSPROT;Acc:Q92685]  
NM\_005787

mir-20 ENSG00000175142 2091 nt UTR 2 hits 194 314  
-----1-----1-----  
-----

>ENSG00000175142 hs-mir-20 194 201  
UAAAGUGCUUAUAGUGCAGGUAG&AGCAGAUAAAGAAUUCACUCAAGCAGUCCUAAGAGGCACUUUUAU  
((((((((((.....(((((((((((&.....)))))))))).....)))))))). -  
19.30

>ENSG00000175142 hs-mir-20 314 321  
UAAAGUGCUUAUAGUGCAGGUAG&AGUGGGGUGGGAGGAGAGGGAGAGAGCACAGGCAGGCACUUUU  
((((((((((.....(((((((((((&.....)))))))))).....)))))))). -20.50

mir-20 ENSMUSG00000033809 2082 nt UTR 2 hits 190 308  
-----1-----1-----  
-----

>ENSMUSG00000033809 hs-mir-20 190 197  
UAAAGUGCUUAUAGUGCAGGUAG&AUGGAAACGAACAACUCAUCAGGCAGUCUUAAGAGGCACUUUUAU  
((((((((((.....(((((((((((&.....)))))))))).....)))))))). -  
18.80

>ENSMUSG00000033809 hs-mir-20 308 315  
UAAAGUGCUUAUAGUGCAGGUAG&AUGGAGUGGGAGGAGAGAGAAGAGAGCACAGGCAGGCACUUUC  
((((((((((.....(((((((((((&.....)))))))))).....)))))))). -20.50

mir-20 ENSRNOG00000001712 2083 nt UTR 2 hits 188 304  
-----1-----1-----  
-----

>ENSRNOG00000001712 hs-mir-20 188 195  
UAAAGUGCUUAUAGUGCAGGUAG&UUGGAAACGAACGACUCGCCAGGCAGUCUUAAGAGGCACUUUUAU  
((((((((((.....(((((((((((&.....)))))))))).....)))))))). -  
22.10

>ENSRNOG00000001712 hs-mir-20 304 311  
UAAAGUGCUUAUAGUGCAGGUAG&AUGGACUGGGCAGAGAGAGAAGAGAGCACAGGCAGGCACUUUC  
.((((((((((.(.((((.....&.....)))))).))))).. -20.50

miRNA: mir-22

Human predicted target: ENSG00000136295

Mouse predicted target: ENSMUSG00000036565

Rat predicted target: ENSRNOG00000001231

Rat predicted target: ENSRNOG00000001233

mir-22 ENSG00000136295 5061 nt UTR 3 hits 768 1462 1567

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

>ENSG00000136295 hs-mir-22 768 775  
AAGCUGCCAGUUGAAGAACUGU&UUGGUGCCAAACCCCUUCCCCACCCAGAGACUGGGCAGCUG  
.(((((((((((((.....&.....))))).))))).. -22.10

>ENSG00000136295 hs-mir-22 1462 1469  
AAGCUGCCAGUUGAAGAACUGU&CUCGAUGCCUGUGCCAAGGCCAGGGGCAGCCAGAGGGCAGCUG  
.(((((((((((((.....((.&.....))))).))))).. -23.20

>ENSG00000136295 hs-mir-22 1567 1574  
AAGCUGCCAGUUGAAGAACUGU&UUUACAGACGCAUGGCUCUUCUCCAGAGCAGCCGGCAGCUA  
.(((((((((((((.....((.&.....))))).))))).. -23.90

mir-22 ENSMUSG00000036565 2000 nt UTR 3 hits 779 1390 1481

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

>ENSMUSG00000036565 hs-mir-22 779 786  
AAGCUGCCAGUUGAAGAACUGU&UGCCAAACCCUCUUCUCCAUUCAUUCUGAAGAGUGGCAGCUUU  
(((((((((((((.....&.....))))).))))).. -22.70

>ENSMUSG00000036565 hs-mir-22 1390 1397  
AAGCUGCCAGUUGAAGAACUGU&CCAGCCAGCCAGUGUGAGCUCUGGUCUGUGAGAUGGGCAGCUA  
.(((((((((((((.....((.&.....))))).))))).. -22.10

>ENSMUSG00000036565 hs-mir-22 1481 1488  
AAGCUGCCAGUUGAAGAACUGU&UGGUUUACAGACCUGUGGCCUCCUGGAGCAACCUGGCAGCUA  
.(((((((((((((.....((.&.....))))).))))).. -24.99

mir-22 ENSRNOG00000001231 2000 nt UTR 3 hits 775 1384 1489

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

>ENSRNOG00000001231 hs-mir-22 775 782  
AAGCUGCCAGUUGAAGAACUGU&GUGCCAAACCCUCUUCUUCUUGUUCUCCGGAGAGUGGCAGCUUC  
(((((((((((((.....&.....))))).))))).. -24.50

>ENSRNOG00000001231 hs-mir-22 1384 1391  
AAGCUGCCAGUUGAAGAACUGU&CCAGCCAGCCAGUAUGAGCUCUGGUCUGCGGGACAGGCAGCUA  
.(((((((((((((.....((.&.....))))).))))).. -21.80

>ENSRNOG00000001231 hs-mir-22 1489 1496  
AAGCUGCCAGUUGAAGAACUGU&UGGUUUACAGACCUGUGGCCUCCUGGAGCAACCUGGCAGCUA  
.(((((((((((((.....((.&.....))))).))))).. -24.99

mir-22 ENSRNOG00000001233 2000 nt UTR 3 hits 775 1384 1489



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

>ENSRNOG00000001233 hs-mir-22 775 782  
AAGCUGCCAGUUGAAGAACUGU&GUGCCAAACCCUCUUUCCCUUUGUUCGAGAGUGGCAGCUUC  
(((((((((((((...(((((...&.....))))).)))).))))). -24.50  
>ENSRNOG00000001233 hs-mir-22 1384 1391  
AAGCUGCCAGUUGAAGAACUGU&CCAGCCAGCCAGUAUGAGCUCUGGUCUGCGGGACAGGCAGCUA  
(((((((((((((...(((((...&.....))))).)))).))))). -21.80  
>ENSRNOG00000001233 hs-mir-22 1489 1496  
AAGCUGCCAGUUGAAGAACUGU&UGGUUUACAGACCUGUGGCCCUCCUGGAGCAACCUGGCAGCUA  
(((((((((((((...(((((...&.....))))).)))).))))). -24.99

miRNA: mir-22

Human predicted target: ENSG00000137101  
Mouse predicted target: ENSMUSG00000028459  
Rat predicted target: ENSRNOG00000017485  
Hs Gene description: B-CELL DIFFERENTIATION ANTIGEN CD72 (LYB-2).  
[Source:SWISSPROT;Acc:P21854] NM\_001782  
mir-22 ENSG00000137101 2000 nt UTR 3 hits 898 1303 1513

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

>ENSG00000137101 hs-mir-22 898 905  
AAGCUGCCAGUUGAAGAACUGU&GAGACCACGGGCUCCACUGCUAAGAGCGUGCCCCAGGCAGCUG  
(((((((((((((...(((((...&.....))))).)))).))))). -19.93  
>ENSG00000137101 hs-mir-22 1303 1310  
AAGCUGCCAGUUGAAGAACUGU&AGGUGCUGAUGAAGUUGUCUGUGGCCACAGCCAGAGGCAGCUG  
(((((((((((((...(((((...&.....))))).)))).))))). -19.40  
>ENSG00000137101 hs-mir-22 1513 1520  
AAGCUGCCAGUUGAAGAACUGU&CAGGCUGGACCAGGGUCUCCGAGUGGUCACCAAGGGCAGCUG  
(((((((((((((...(((((...&.....))))).)))).))))). -21.70  
mir-22 ENSMUSG00000028459 2301 nt UTR 3 hits 1084 1489 1696

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

>ENSMUSG00000028459 hs-mir-22 1084 1091  
AAGCUGCCAGUUGAAGAACUGU&GAGCUCACAGGCCUCACUGCUAAGAGCGUGCCCCAGGCAGCUG  
(((((((((((((...(((((...&.....))))).)))).))))). -21.73  
>ENSMUSG00000028459 hs-mir-22 1489 1496  
AAGCUGCCAGUUGAAGAACUGU&AAGUACUGAUGAAGUUGUCAGUGGCCACAGCCAGAGGCAGCUG  
(((((((((((((...(((((...&.....))))).)))).))))). -23.40  
>ENSMUSG00000028459 hs-mir-22 1696 1703  
AAGCUGCCAGUUGAAGAACUGU&CAGGCUGGACCAGGAUGUCUGGAGUGGUCACUAAGGGCAGCUG  
(((((((((((((...(((((...&.....))))).)))).))))). -21.40  
mir-22 ENSRNOG00000017485 2375 nt UTR 4 hits 616 1021 1231 2052

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

>ENSRNOG00000017485 hs-mir-22 616 623  
AAGCUGCCAGUUGAAGAACUGU&GAGAUACAGGCCUCACUGCUAAGAGCGUGCCCCAGGCAGCUG

```

(((((((((((((((((..(((&.....))))))..))))..))))..)))).. -21.73
>ENSRNOG00000017485 hs-mir-22 1021 1028
AAGCUGCCAGUUGAAGAACUGU&ACGUACUGAUGAAGUUGUCAGUGGCCACAGCCAGAGGCAGCUG
(((((((((((((((((..(((&.....))))))..))))..))))..)))).. -23.40
>ENSRNOG00000017485 hs-mir-22 1231 1238
AAGCUGCCAGUUGAAGAACUGU&CAGGCUGGACCAGGGACUCUGGAGAGGCCACCAAGGGCAGCUG
(((((((((((((((((..(((&.....))))))..))))..))))..)))).. -20.40
>ENSRNOG00000017485 hs-mir-22 2052 2059
AAGCUGCCAGUUGAAGAACUGU&UGGCAAGGGGCAUCUUGGCGAGGGGCGUGGGCUCAGGCAGCUG
(((((((((((((((((..(((&.....))))))..))))..))))..)))).. -22.50

```

miRNA: mir-22

Human predicted target: ENSG00000139651

Mouse predicted target: ENSMUSG00000046897

Rat predicted target: ENSRNOG00000012192

Hs Gene description: ORILYT TD-ELEMENT BINDING PROTEIN 7.

[Source:SPTREMBL;Acc:Q8NDX6]

mir-22 ENSG00000139651 3834 nt UTR 2 hits 329 578

```

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

```

```

>ENSG00000139651 hs-mir-22 329 336
AAGCUGCCAGUUGAAGAACUGU&CUGAAGUGUGGCUCCCACAACCUUGGACUCCAGCUGGCAGCUG
(((((((((((((((((..((...&.....))))))..))))..))))..)))).. -29.00
>ENSG00000139651 hs-mir-22 578 585
AAGCUGCCAGUUGAAGAACUGU&UCGCCUCCUUUUUGAGGAAGAAUAAGGUCAGGAAUGGCAGCUG
(((((((((((((((((..((...&.....))))))..))))..))))..)))).. -21.90

```

```

mir-22 ENSMUSG00000046897 4915 nt UTR 3 hits 320 540 4449
-----1-----1-----
-----

```

```

-----1-----

```

```

>ENSMUSG00000046897 hs-mir-22 320 327
AAGCUGCCAGUUGAAGAACUGU&AGACUGAAAUGUCCCAACCUUGGACUGGAACUGGCAGCUA
(((((((((((((((((..((...&.....))))))..))))..))))..)))).. -26.90
>ENSMUSG00000046897 hs-mir-22 540 547
AAGCUGCCAGUUGAAGAACUGU&AGCCCGCCUAUUUGAAAGCAAUAAGGAAGGGGGCUGGCAGCUG
(((((((((((((((((..((...&.....))))))..))))..))))..)))).. -26.10
>ENSMUSG00000046897 hs-mir-22 4449 4456
AAGCUGCCAGUUGAAGAACUGU&UGUCCGGUGAAUGCCAGUCAGUGGAUUCACAUCUGGGCAGCUG
(((((((((((((((((..((...&.....))))))..))))..))))..)))).. -25.60

```

```

mir-22 ENSRNOG00000012192 2000 nt UTR 2 hits 318 549
-----1-----1-----
-----

```

```

>ENSRNOG00000012192 hs-mir-22 318 325
AAGCUGCCAGUUGAAGAACUGU&AGACUGAAGUGUCCCAACCUAGGACUGGAACUGGCAGCUA
(((((((((((((((((..((...&.....))))))..))))..))))..)))).. -29.00
>ENSRNOG00000012192 hs-mir-22 549 556

```

AAGCUGCCAGUUGAAGAACUGU&GUACUCCUCUUUGAAAGCAGGCAGGGCGGGGGCUGGCAGCUG  
.((((((((((((((...(((&.....))))))..))..)))))))). -31.00

miRNA: mir-22

Human predicted target: ENSG00000162377  
Mouse predicted target: ENSMUSG00000034625  
Rat predicted target: ENSRNOG00000010636  
Hs Gene description: NM\_023077

mir-22 ENSG00000162377 2878 nt UTR 2 hits 43 778

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

>ENSG00000162377 hs-mir-22 43 50  
AAGCUGCCAGUUGAAGAACUGU&CACCCUCCUCCAGGCAACAACUGCUUGAGGCUGGCAGCUC  
.((((((((((((((...(((&.....))))))..))..)))))))). -25.40

>ENSG00000162377 hs-mir-22 778 785  
AAGCUGCCAGUUGAAGAACUGU&CUGCCCAUCAUGCUGAGGGAGCAGAUUCUCCCAAGGCAGCUUC  
((((((((((((((...(((&.....))))))..))..)))))))). -28.20

mir-22 ENSMUSG00000034625 2156 nt UTR 2 hits 43 1065

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

>ENSMUSG00000034625 hs-mir-22 43 50  
AAGCUGCCAGUUGAAGAACUGU&CCCAGCCCCUUCAGCAACAGACGAUUCACCCUGGCAGCUC  
.((((((((((((((...(((&.....))))))..))..)))))))). -26.80

>ENSMUSG00000034625 hs-mir-22 1065 1072  
AAGCUGCCAGUUGAAGAACUGU&UCUGUCACUACCCUGGUCCCCUAUGUGGCAGUGUGGCAGCUA  
.((((((((((((((...(((&.....))))))..))..)))))))). -22.10

mir-22 ENSRNOG00000010636 3328 nt UTR 3 hits 42 1120 2384

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

>ENSRNOG00000010636 hs-mir-22 42 49  
AAGCUGCCAGUUGAAGAACUGU&GUGGCCACCCCUUCAAGCAACAGCUUCACCCUGGCAGCUC  
.((((((((((((((...(((&.....))))))..))..)))))))). -28.40

>ENSRNOG00000010636 hs-mir-22 1120 1127  
AAGCUGCCAGUUGAAGAACUGU&UAUUUGGUAUGAUUGAACACCAGAGGCCAACCCUGGGCAGCUA  
.((((((((((((((...(((&.....))))))..))..)))))))). -22.10

>ENSRNOG00000010636 hs-mir-22 2384 2391  
AAGCUGCCAGUUGAAGAACUGU&GGCCAACAAAAGGCACUGGGAAGAUACUAACCCUGGGCAGCUA  
.((((((((((((((...(((&.....))))))..))..)))))))). -19.20

miRNA: mir-22

Human predicted target: ENSG00000166484  
Mouse predicted target: ENSMUSG00000001034  
Rat predicted target: ENSRNOG00000002412  
Hs Gene description: MITOGEN-ACTIVATED PROTEIN KINASE 7 (EC 2.7.1.-)  
(EXTRACELLULAR SIGNAL- REGULATED KINASE 5) (ERK-5) (ERK4) (BMK1 KINASE).  
[Source:SWISSPROT;Acc:Q13164] NM\_139032

mir-22 ENSG00000166484 2313 nt UTR 2 hits 1362 2063  
-----1-----  
-----1-----  
>ENSG00000166484 hs-mir-22 1362 1369  
AAGCUGCCAGUUGAAGAACUGU&GCCACCUAGGUAGAAGCCAUUGAGGUUGGCAAAGUGGCAGCUG  
.(((((((((((((...(((...&.....))))))..)))))))). -23.50  
>ENSG00000166484 hs-mir-22 2063 2070  
AAGCUGCCAGUUGAAGAACUGU&CAGGAGGUGCAUGUUCUGCAGCCCUGGGGAGGAGGGGCAGCUG  
.(((((((((((((...(((...&.....))))))..))))))..)))))))). -26.44  
mir-22 ENSMUSG00000001034 2301 nt UTR 2 hits 831 1250

-----1-----1-----  
-----1-----  
>ENSMUSG00000001034 hs-mir-22 831 838  
AAGCUGCCAGUUGAAGAACUGU&CAGUAAGGAAACUGCUGAGGUGGGGUGCAAAGCUGGCAGCUA  
.(((((((((((((...(((...&.....))))))..)))))))). -26.90  
>ENSMUSG00000001034 hs-mir-22 1250 1257  
AAGCUGCCAGUUGAAGAACUGU&ACCACCCAGGUAGAAACCGUUGAGAUUGGCGAAAUGGCAGCUUC  
(((((((((((((...(((...&.....))))))..)))))))). -21.70  
mir-22 ENSRNOG00000002412 2302 nt UTR 3 hits 823 1240 1921

-----1-----1-----  
--1-----  
>ENSRNOG00000002412 hs-mir-22 823 830  
AAGCUGCCAGUUGAAGAACUGU&CAGUAAGGAAUUGGCUGAGGUGGGAUGUAUAAGCUGGCAGCUA  
.(((((((((((((...(((...&.....))))))..)))))))). -24.84  
>ENSRNOG00000002412 hs-mir-22 1240 1247  
AAGCUGCCAGUUGAAGAACUGU&CCCACCCAGGUAGAAAGCCGUUGAGGUUGGCAAAGCAGCUUC  
(((((((((((((...(((...&.....))))))..)))))))). -22.00  
>ENSRNOG00000002412 hs-mir-22 1921 1928  
AAGCUGCCAGUUGAAGAACUGU&CAGGAGGUGCAGGUUCUGCAGCCCAGGUAGGGGUGGCAGCUG  
.(((((((((((((...(((...&.....))))))..))))))..)))))))). -27.70

miRNA: mir-22  
Human predicted target: ENSG00000168096  
Mouse predicted target: ENSMUSG00000022515  
Rat predicted target: ENSRNOG00000003186

mir-22 ENSG00000168096 2396 nt UTR 4 hits 178 683 1475 1548  
-----1-----1-----1-----1-----  
-----1-----  
>ENSG00000168096 hs-mir-22 178 185  
AAGCUGCCAGUUGAAGAACUGU&AGACAGAGGCAAGACGGGGCUGCGGCCUGGCUCGGCAGCUC  
.(((((((((((((...(((...&.....))))))..)))))))). -23.10  
>ENSG00000168096 hs-mir-22 683 690  
AAGCUGCCAGUUGAAGAACUGU&AGACAGAGGCAAGACGGGGCUGCGGCCUGGCUCGGCAGCUC  
.(((((((((((((...(((...&.....))))))..))))))..)))))))). -23.10  
>ENSG00000168096 hs-mir-22 1475 1482  
AAGCUGCCAGUUGAAGAACUGU&AGUAAACACUGGGGAACAAACGUGCCCCUGGCUGGGGCAGCUC  
.(((((((((((((...&.....))))))..)))))))). -18.50

>ENSG00000168096 hs-mir-22 1548 1555  
AAGCUGCCAGUUGAAGAACUGU&AGCUGGUUCCAUCCAGAACC AAAACAAACACACAGGGCAGCUG  
((((((((((..(((..(((((((&..))))))..))))))..))))))..)))))).. -19.30  
mir-22 ENSMUSG00000022515 2372 nt UTR 4 hits 160 234 621 695  
-----1--1-----1--1-----

>ENSMUSG00000022515 hs-mir-22 160 167  
AAGCUGCCAGUUGAAGAACUGU&UAUGGACAGGAAGACAGGACUGCGGUCCCCACUAGGGCAGCUUG  
((((((((((..(((..(((((((&..))))))..))))))..))))))..)))))).. -22.80  
>ENSMUSG00000022515 hs-mir-22 234 241  
AAGCUGCCAGUUGAAGAACUGU&GCACCCAGA UCCUGGUGGAGAGGCCCAUGCUGGUAGGCAGCUUU  
((((((((((..(((..(((((((&..))))))..))))))..))))))..)))))).. -17.90  
>ENSMUSG00000022515 hs-mir-22 621 628  
AAGCUGCCAGUUGAAGAACUGU&UAUGGACAGGAAGACAGGACUGCGGUCCCCACUAGGGCAGCUUG  
((((((((((..(((..(((((((&..))))))..))))))..))))))..)))))).. -22.80  
>ENSMUSG00000022515 hs-mir-22 695 702  
AAGCUGCCAGUUGAAGAACUGU&GCACCCAGA UCCUGGUGGAGAGGCCCAUGCUGGUAGGCAGCUUU  
((((((((((..(((..(((((((&..))))))..))))))..))))))..)))))).. -17.90  
mir-22 ENSRNOG00000003186 2000 nt UTR 2 hits 266 346  
-----1--1-----

>ENSRNOG00000003186 hs-mir-22 266 273  
AAGCUGCCAGUUGAAGAACUGU&UGUGGACAGGAGGACAGGACUUCAGUCCUCACUAGGGCAGCUUG  
((((((((((..(((..(((((((&..))))))..))))))..))))))..)))))).. -27.40  
>ENSRNOG00000003186 hs-mir-22 346 353  
AAGCUGCCAGUUGAAGAACUGU&AGAUUCUGGUGGAGAGGCCCAUGCUGGUAGGCAGAGGCAGCUUU  
((((((((((..(((..(((((((&..))))))..))))))..))))))..)))))).. -19.00

miRNA: mir-23a

Human predicted target: ENSG00000107562

Mouse predicted target: ENSMUSG00000030130

Rat predicted target: ENSRNOG00000013589

Hs Gene description: STROMAL CELL-DERIVED FACTOR 1 PRECURSOR (SDF-1)  
(CXCL12) (PRE-B CELL GROWTH STIMULATING FACTOR) (PBSF) (HIRH).

[Source:SWISSPROT;Acc:P48061] NM\_000609

mir-23a ENSG00000107562 3504 nt UTR 3 hits 1387 1452 1976  
-----1--1-----

>ENSG00000107562 hs-mir-23a 1387 1394  
AUCACAUUGCCAGGGAUUUCC&ACUGGCAUUUUGUAAAAGAAAUAUAUAUGAUUAUAAAUGUGAUU  
((((((((((..(((..(((((((&..))))))..))))))..))))))..)))))).. -17.65  
>ENSG00000107562 hs-mir-23a 1452 1459  
AUCACAUUGCCAGGGAUUUCC&CAGUGUAUUUUUUCACUUGUACUAAAUAUGUAUCAAAUGUGAC  
((((((((((..(((..(((((((&..))))))..))))))..))))))..)))))).. -13.00  
>ENSG00000107562 hs-mir-23a 1976 1983  
AUCACAUUGCCAGGGAUUUCC&UAAAUCAUUAAAUAACCAUUCAGCUUGAAUCAUUUUAAUGUGAC  
((((((((((..(((..(((((((&..))))))..))))))..))))))..)))))).. -15.10

```

mir-23a  ENSMUSG00000030130  3486 nt UTR    3 hits 830 1888 2470
-----1-----
-1-----1-----
>ENSMUSG00000030130 hs-mir-23a    830    837
AUCACAUUGCCAGGGAUUUCC&GGCCUCCUGUAGAAUGGAGCCAGACCAUCCUGGAUAAUGUGAG
.((((((((((((((((.....&.....)))))))).))))). -24.00
>ENSMUSG00000030130 hs-mir-23a    1888    1895
AUCACAUUGCCAGGGAUUUCC&UAAAUCAUUAAAUAACCAUUCAGCUUGAAUCAUUUUAUGUGAC
.((((((((.....((((..&.....))))).)))..))))). -15.10
>ENSMUSG00000030130 hs-mir-23a    2470    2477
AUCACAUUGCCAGGGAUUUCC&GUGGGAACUGAGAUAGAUACACUCCUCUAUGUUGCAAUGUGAUU
(((((((((((((((((((((&..))))).)))..)))..))))). -20.56
mir-23a  ENSRNOG00000013589  3497 nt UTR    3 hits 847 1895 2465

```

```

-----1-----
-1-----1-----
>ENSRNOG00000013589 hs-mir-23a    847    854
AUCACAUUGCCAGGGAUUUCC&GGCCUCCUGUAGAAUGGAGCCAGCCCCUCCUGGAUAAUGUGAG
.((((((((((((((((.....&.....)))))))).))))). -23.80
>ENSRNOG00000013589 hs-mir-23a    1895    1902
AUCACAUUGCCAGGGAUUUCC&UAAAUCAUUAAAUAACCAUUCAGCUUGAAUCAUUUUAUGUGAC
.((((((((.....((((..&.....))))).)))..))))). -15.10
>ENSRNOG00000013589 hs-mir-23a    2465    2472
AUCACAUUGCCAGGGAUUUCC&GUGGGAACUGAGAGAGAUACCCUCCCAUAUGUUGCAAUGUGAUU
(((((((((((((((((((((&.....))))).)))..)))..))))). -24.40

```

miRNA: mir-23a

Human predicted target: ENSG00000108179

Mouse predicted target: ENSMUSG00000021868

Rat predicted target: ENSRNOG00000010558

Hs Gene description: PEPTIDYL-PROLYL CIS-TRANS ISOMERASE, MITOCHONDRIAL  
 PRECURSOR (EC 5.2.1.8) (PPIASE) (ROTAMASE) (CYCLOPHILIN F).

[Source:SWISSPROT;Acc:P30405] NM\_005729

```

mir-23a  ENSG00000108179  3492 nt UTR    2 hits 679 845

```

```

-----1-----
-1-----1-----
>ENSG00000108179 hs-mir-23a    679    686
AUCACAUUGCCAGGGAUUUCC&CCUGGGAACAAACCUCACUUGAGCUGUGCCUAGACAAUGUGAA
.((((((((((((((((..(((..&.....))))).)))..))))). -19.92
>ENSG00000108179 hs-mir-23a    845    852
AUCACAUUGCCAGGGAUUUCC&AAACAUUUCUGGAACAUGGAUUUGUGUUCACCUUAAAUGUGAA
.((((((((((((((((..(((..&.....))))).)))..))))). -18.45
mir-23a  ENSMUSG00000021868  2862 nt UTR    2 hits 667 835

```

```

-----1-----
-1-----1-----
>ENSMUSG00000021868 hs-mir-23a    667    674
AUCACAUUGCCAGGGAUUUCC&CUGGGAACAGACCUGUGAGCCCGGUCUUUCUGCUCAAUGUGAA
.((((((((((((((((..(((..&.....))))).)))..))))). -20.30

```

>ENSMUSG00000021868 hs-mir-23a 835 842  
AUCACAUUGCCAGGGAUUUC&AAAGAUUUCUGGGACAGUCCUGUGUGUUCAUCUCAAAUGUGAUA  
((((((((((((((((((..((((&.....))))))..))))))..)).....)))))))). -20.70  
mir-23a ENSRNOG00000010558 2838 nt UTR 3 hits 645 807 1328  
-----1-----1-----1-----

>ENSRNOG00000010558 hs-mir-23a 645 652  
AUCACAUUGCCAGGGAUUUC&CUGGGGACAGACCUGUGAGCCAGGCCUGUCUGCUCAAUGUGAA  
..((((((((((((((((((..(((&.....))))..))))))..)).....)))))))). -20.12  
>ENSRNOG00000010558 hs-mir-23a 807 814  
AUCACAUUGCCAGGGAUUUC&AGAAGAUUUCUGAACAGUCCUCUGUGUUCAUCUCAAAUGUGAUA  
((((((((((((((((((((...&.....))))))..))))..)).....)))))))). -19.70  
>ENSRNOG00000010558 hs-mir-23a 1328 1335  
AUCACAUUGCCAGGGAUUUC&UGCUUAAUGAUCGAGCUUCAGUUUCUCUCAGCCAUAUGUGAC  
..((((((((((((((((((.....&.....))))))..))))..)).....)))))))). -14.80

miRNA: mir-23a

Human predicted target: ENSG00000109332  
Mouse predicted target: ENSMUSG00000043574  
Rat predicted target: ENSRNOG00000013741  
Hs Gene description: UBIQUITIN-CONJUGATING ENZYME E2-17 KDA 3 (EC  
6.3.2.19) (UBIQUITIN- PROTEIN LIGASE) (UBIQUITIN CARRIER PROTEIN)  
(E2(17)KB 3). [Source:SWISSPROT;Acc:P47986] NM\_003340  
mir-23a ENSG00000109332 3439 nt UTR 2 hits 540 2616  
-----1-----

>ENSG00000109332 hs-mir-23a 540 547  
AUCACAUUGCCAGGGAUUUC&AUUGGUAUUGAAUUUAUAGCAUCAGCAGAACAGAAAUGUGAUG  
((((((((((((((((((.....&..))))))..))))..)).....)))))))). -14.15  
>ENSG00000109332 hs-mir-23a 2616 2623  
AUCACAUUGCCAGGGAUUUC&AAAUGACUCAGUUUGUUUUUCCUGGGCGAGUUUGCAAUGUGAUA  
((((((((((((((((((((.....&.....))))))..))))..)).....)))))))). -23.40  
mir-23a ENSMUSG00000043574 2818 nt UTR 2 hits 536 2557  
-----1-----

>ENSMUSG00000043574 hs-mir-23a 536 543  
AUCACAUUGCCAGGGAUUUC&AAUUGGUAUUGAAUUUAUAGCAUCAGCAGAACAGAAAUGUGAUG  
((((((((((((((((((((.....&..))))))..))))..)).....)))))))). -14.18  
>ENSMUSG00000043574 hs-mir-23a 2557 2564  
AUCACAUUGCCAGGGAUUUC&GAAUUUCCUUUUGAUUUUUUCUUGGGCAGGUUUGCAAUGUGAUA  
((((((((((((((((((((..((((&..))))..))))..)).....)))))))). -21.51  
mir-23a ENSRNOG00000013741 3926 nt UTR 2 hits 538 2643  
-----1-----

>ENSRNOG00000013741 hs-mir-23a 538 545  
AUCACAUUGCCAGGGAUUUC&AAUUGGUAUUGAAUUUAUAGCAUCAGCAGAACAGAAAUGUGAUG

((((((((((((((((.....&..)))))).....)))))))). -14.18  
>ENSRNOG00000013741 hs-mir-23a 2643 2650  
AUCACAUUGCCAGGGAUUUCC&UGAAUUUCCUUUGACUUUUUCUUGGGCAGGUUUGCAAUGUGAUA  
((((((((((((((((.....&..)))))).....)))))))). -21.55

miRNA: mir-23a

Human predicted target: ENSG00000119408

Mouse predicted target: ENSMUSG00000026749

Rat predicted target: ENSRNOG00000010897

Hs Gene description: PUTATIVE SERINE-THREONINE PROTEIN KINASE.

[Source:RefSeq;Acc:NM\_014397] NM\_014397

mir-23a ENSG00000119408 3495 nt UTR 2 hits 304 1123

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

>ENSG00000119408 hs-mir-23a 304 311  
AUCACAUUGCCAGGGAUUUCC&CAGCGAGCCACGGCAGCCCCUGUAUCUGGAUUGUAAUGUGAA  
.((((((((((((((((.....&..)))))).....)))))))). -22.10

>ENSG00000119408 hs-mir-23a 1123 1130  
AUCACAUUGCCAGGGAUUUCC&UCCCAAACAGGAUUAACUGUGAAGACUAAUUUAUAAAUGUGAA  
.((((((((((((((((.....&..)))))).....)))))))). -14.76

mir-23a ENSMUSG00000026749 2377 nt UTR 2 hits 238 1164

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

>ENSMUSG00000026749 hs-mir-23a 238 245  
AUCACAUUGCCAGGGAUUUCC&GUUUGGCAGCCAUGGAAACCCCUUGUACCUACUGAAAUGUGAA  
.((((((((((((((((.....&..)))))).....)))))))). -22.10

>ENSMUSG00000026749 hs-mir-23a 1164 1171  
AUCACAUUGCCAGGGAUUUCC&UCCCUAAUAGGAUUAACUGUGAAGACUAAUUUAUAAAUGUGAA  
.((((((((((((((((.....&..)))))).....)))))))). -14.76

mir-23a ENSRNOG00000010897 2328 nt UTR 2 hits 211 1133

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

>ENSRNOG00000010897 hs-mir-23a 211 218  
AUCACAUUGCCAGGGAUUUCC&GCUUUAGUGGGGGAGGGGCUUGGCAGGCCUACUGAAAUGUGAA  
.((((((((((((((((.....&..)))))).....)))))))). -23.70

>ENSRNOG00000010897 hs-mir-23a 1133 1140  
AUCACAUUGCCAGGGAUUUCC&UCCCAAACAGGAUUAACUGUGAAGACUAAUUUAUAAAUGUGAA  
.((((((((((((((((.....&..)))))).....)))))))). -15.71

miRNA: mir-23a

Human predicted target: ENSG00000137942

Mouse predicted target: ENSMUSG00000039735

Rat predicted target: ENSRNOG00000013798

Hs Gene description: NM\_017737

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



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

>ENSG00000137942 hs-mir-23a 1740 1747  
AUCACAUUGCCAGGGAUUUC&UUAGAUUUGAAUCUCGUUACAGGGUUAUUUAUUAUAAUGUGAC  
.(((((((((((((.....&.....)))))))).)))). -16.10

>ENSG00000137942 hs-mir-23a 1829 1836  
AUCACAUUGCCAGGGAUUUC&GCUAUUUUUUAUUUAAAAGGUUAGCAAUGAGGAGGAAAUGUGAUC  
(((((((((((((.....&.....)))))))).)))). -14.51

>ENSG00000137942 hs-mir-23a 2769 2776  
AUCACAUUGCCAGGGAUUUC&UCUAAUUUCAGAAGAUUCACCUUUUAAAAAUGCAAUGUGAA  
.(((((((((((((.....&.....)))))))).)))). -15.20

mir-23a ENSMUSG00000039735 5380 nt UTR 5 hits 1902 2621 2876 2965  
3441

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

>ENSMUSG00000039735 hs-mir-23a 1902 1909  
AUCACAUUGCCAGGGAUUUC&UCUGCUCUAGCCUGCAGCCCAGUUACCGACUCUGAAAUGUGAC  
.(((((((((((((.....&.....)))))))).)))). -19.10

>ENSMUSG00000039735 hs-mir-23a 2621 2628  
AUCACAUUGCCAGGGAUUUC&CGUUUGGUUCUUUACUGUUGUGAGGGGAGAAAGAGAAUGUGAA  
.(((((((((((((.....&.....)))))))).)))). -14.70

>ENSMUSG00000039735 hs-mir-23a 2876 2883  
AUCACAUUGCCAGGGAUUUC&UUAGAUUUAUAAUCUCGUUACAGGGUUAUUUAUUAUAAUGUGAC  
.(((((((((((((.....&.....)))))))).)))). -15.70

>ENSMUSG00000039735 hs-mir-23a 2965 2972  
AUCACAUUGCCAGGGAUUUC&GCUAUUUUUUAUUUCAAAAGUUAGCAAUGAGAAGGAAAUGUGAC  
.(((((((((((((.....&.....)))))))).)))). -15.20

>ENSMUSG00000039735 hs-mir-23a 3441 3448  
AUCACAUUGCCAGGGAUUUC&CUGCUCUGGAACCAAAGAGACUCGGAGCACCUUAAAUGUGAUA  
(((((((((((((.....&.....)))))))).)))). -19.60

mir-23a ENSRNOG00000013798 5105 nt UTR 5 hits 1674 2358 2612 2701  
4695

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

>ENSRNOG00000013798 hs-mir-23a 1674 1681  
AUCACAUUGCCAGGGAUUUC&UGCUCUAGCCUGCAGCCCAGUUAAAGACUCUGUGAAAUGUGAC  
.(((((((((((((.....&.....)))))))).)))). -18.90

>ENSRNOG00000013798 hs-mir-23a 2358 2365  
AUCACAUUGCCAGGGAUUUC&AAUUUGGUUCUUUACUGUUUUGGGGGGAGAGAACAUGUGAA  
.(((((((((((((.....&.....)))))))).)))). -17.42

>ENSRNOG00000013798 hs-mir-23a 2612 2619  
AUCACAUUGCCAGGGAUUUC&UUAGAUUUAUAAUCUCGUUACAGGGUUAUUUAUUAUAAUGUGAC  
.(((((((((((((.....&.....)))))))).)))). -15.70

>ENSRNOG00000013798 hs-mir-23a 2701 2708  
AUCACAUUGCCAGGGAUUUC&GCUAUUUUUUAUUUCAGAAGUUAGCAAUGAGAAGGAAAUGUGAC

.(((((((((((((...((((((.&.....)))))).....)))). -15.44  
 >ENSRNOG00000013798 hs-mir-23a 4695 4702  
 AUCACAUUGCCAGGGAUUUCC&UGCUCUAGCCUGCAGCCCAGUUAAAGACUCUGUGAAAUGUGAC  
 .(((((((((((((.....&.....)))))).....)))). -18.90

miRNA: mir-23a

Human predicted target: ENSG00000151615

Mouse predicted target: ENSMUSG00000031688

Rat predicted target: ENSRNOG00000012167

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-----1-----

>ENSG00000151615 hs-mir-23a 102 109  
 AUCACAUUGCCAGGGAUUUCC&CUUUUCACUUUUGGCGACUAGAAACAAUUCAGUAAAUGUGAA  
 .(((((((((((((...((((((.&.....)))))).....)))). -17.50

>ENSG00000151615 hs-mir-23a 173 180  
 AUCACAUUGCCAGGGAUUUCC&GCGAACGAGCGAACAACUGAGCCCAAGCCGGUGAGAAUGUGAA  
 .(((((((((((((...((((((.&.....)))))).....)))). -16.00

>ENSG00000151615 hs-mir-23a 463 470  
 AUCACAUUGCCAGGGAUUUCC&UUCAGGACUAAAACUUUAAACUAGAGUUGAUGCUUAAUGUGAUA  
 ((((((((((((((((...((((((.&.....)))))).....)))). -15.80

>ENSG00000151615 hs-mir-23a 1665 1672  
 AUCACAUUGCCAGGGAUUUCC&AUUAAAUAUAGCUAUUAAAUAUAAUGGCUUUUAUAAUGUGAUG  
 ((((((((((((((((((((...((((((.&.....)))))).....)))). -18.60  
 mir-23a ENSMUSG00000031688 2000 nt UTR 2 hits 113 490

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

>ENSMUSG00000031688 hs-mir-23a 113 120  
 AUCACAUUGCCAGGGAUUUCC&CUUUCUACUUUUGGCUAUCAGAAAACAAUUCGGUAAAUGUGAA  
 .(((((((((((((((((...((((((.&.....)))))).....)))). -21.00

>ENSMUSG00000031688 hs-mir-23a 490 497  
 AUCACAUUGCCAGGGAUUUCC&UUCAGGACUGAAACUCGAAGCUAGAGUUGAUGCUUAAUGUGAUA  
 ((((((((((((((((...((((((.&.....)))))).....)))). -15.80  
 mir-23a ENSRNOG00000012167 3709 nt UTR 2 hits 114 489

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

>ENSRNOG00000012167 hs-mir-23a 114 121  
 AUCACAUUGCCAGGGAUUUCC&UCUUUCUACUUUUGGCUAUCAGAAAACAAUUCGGUAAAUGUGAA  
 .(((((((((((((((((...((((((.&.....)))))).....)))). -21.00

>ENSRNOG00000012167 hs-mir-23a 489 496  
 AUCACAUUGCCAGGGAUUUCC&UUCAGGACUGAAACUCGAAGCUAGAGUUGAUGCUUAAUGUGAC  
 .(((((((((((((((((...((((((.&.....)))))).....)))). -14.80

miRNA: mir-23a  
Human predicted target: ENSG00000156804  
Mouse predicted target: ENSMUSG00000022358  
Rat predicted target: ENSRNOG00000006738  
Hs Gene description: F-BOX ONLY PROTEIN 32 (MUSCLE ATROPHY F-BOX PROTEIN)  
(MAFBX) (ATROGIN- 1). [Source:SWISSPROT;Acc:Q969P5] NM\_148177  
mir-23a ENSG00000156804 2267 nt UTR 2 hits 181 388

-----1-----1-----  
-----  
>ENSG00000156804 hs-mir-23a 181 188  
AUCACAUUGCCAGGGAUUUC&AGGGGAGAAAUGCAGUUGCUGACUGGGAAUUUAAGAAUGUGAA  
.(((((((((.((((((&.....)))))))).)))))))). -18.00  
>ENSG00000156804 hs-mir-23a 388 395  
AUCACAUUGCCAGGGAUUUC&AAAACUCAAAUACAAAUAAGGACGCUUUGUUUACAAUGUGAA  
.(((((((((.((((((&.....)))))))).)))))))). -19.50  
mir-23a ENSMUSG00000022358 3387 nt UTR 2 hits 172 365

-----1-----1-----  
-----  
>ENSMUSG00000022358 hs-mir-23a 172 179  
AUCACAUUGCCAGGGAUUUC&CGGGGAAGAGAUGCAGUUGC&GAAUUUACAAAUGUGAA  
.(((((((((.((((((&.....)))))))).)))))))). -19.30  
>ENSMUSG00000022358 hs-mir-23a 365 372  
AUCACAUUGCCAGGGAUUUC&AAAAGCUCAAAAACAAGAUGGAACACUCUGUUUACAAUGUGAA  
.(((((((((.((((((&.....)))))))).)))))))). -22.20  
mir-23a ENSRNOG00000006738 2003 nt UTR 3 hits 168 364 1429

-----1-----1-----1-----  
-----  
>ENSRNOG00000006738 hs-mir-23a 168 175  
AUCACAUUGCCAGGGAUUUC&GUGGGAAGAGAUGC&GUGGAAACUUACAAAUGUGAA  
.(((((((((.((((((&.....)))))))).)))))))). -16.90  
>ENSRNOG00000006738 hs-mir-23a 364 371  
AUCACAUUGCCAGGGAUUUC&GGCAAACUCAAGGACAAGAUGGAACACUCUUUUAUAUGUGAA  
.(((((((((.((((((&.....)))))))).)))))))). -18.60  
>ENSRNOG00000006738 hs-mir-23a 1429 1436  
AUCACAUUGCCAGGGAUUUC&GCAAAUAAGCAGAAUAGGCGUUUGUCCAUGUAAAUGUGAA  
.(((((((((.((((((&.....)))))))).)))))))). -18.20

miRNA: mir-23a  
Human predicted target: ENSG00000168819  
Mouse predicted target: ENSMUSG00000049322  
Rat predicted target: ENSRNOG00000009194  
Hs Gene description: ZINC FINGER PROTEIN 292.  
[Source:SWISSPROT;Acc:O60281]  
mir-23a ENSG00000168819 2000 nt UTR 2 hits 771 838

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

>ENSG00000168819 hs-mir-23a 771 778  
AUCACAUUGCCAGGGAUUUC&GAUAUAGUUACUAUGAGUCCAUGAAAUACAAUGGAAAUGUGAA  
.(((((((.(((((((((..&.....))))))....)))))).)))))). -20.30  
>ENSG00000168819 hs-mir-23a 838 845  
AUCACAUUGCCAGGGAUUUC&UUUAAACAUUUGGUUAUUAAAAAAAAAUCCUUUGUGAAUGUGAUA  
(((((((.(((((((((..&.....))))))....)))))).)))))). -21.90  
mir-23a ENSMUSG00000049322 2110 nt UTR 2 hits 742 807  
-----1--1-----  
-----

>ENSMUSG00000049322 hs-mir-23a 742 749  
AUCACAUUGCCAGGGAUUUC&GAUAUAGUUACUAUGAGUCCUGAAAUGUAACGGAAAUGUGAA  
.(((((((.(((((((((..&.....))))))....)))))).)))))). -22.40  
>ENSMUSG00000049322 hs-mir-23a 807 814  
AUCACAUUGCCAGGGAUUUC&AUUUUAAACAUUGGUUAUUUUAAGAUAUCCUUUGUCAAUUGUGAUA  
(((((((.(((((((((..&.....))))))....)))))).)))))). -24.10  
mir-23a ENSRNOG00000009194 2113 nt UTR 2 hits 733 798  
-----1-1-----  
-----

>ENSRNOG00000009194 hs-mir-23a 733 740  
AUCACAUUGCCAGGGAUUUC&UCAGAUAGCUACUCCAAGUCCCGAAAUGUAUUGGAAAUGUGAA  
.(((((((.(((((((((..&.....))))))....)))))).)))))). -22.20  
>ENSRNOG00000009194 hs-mir-23a 798 805  
AUCACAUUGCCAGGGAUUUC&AUUUUAAACAUUGCUAUUUUAAGAUAUCCUUUGUCAAUUGUGAUA  
(((((((.(((((((((..&.....))))))....)))))).)))))). -24.10

miRNA: mir-23b

Human predicted target: ENSG00000107562  
Mouse predicted target: ENSMUSG00000030130  
Rat predicted target: ENSRNOG00000013589  
Hs Gene description: STROMAL CELL-DERIVED FACTOR 1 PRECURSOR (SDF-1)  
(CXCL12) (PRE-B CELL GROWTH STIMULATING FACTOR) (PBSF) (HIRH).  
[Source:SWISSPROT;Acc:P48061] NM\_000609  
mir-23b ENSG00000107562 3504 nt UTR 3 hits 1387 1452 1976  
-----1--1-----  
-----1-----

>ENSG00000107562 hs-mir-23b 1387 1394  
AUCACAUUGCCAGGGAUUACCAC&ACUGGCAAUUUGUAAAGAAAUAUAUUAUGAUUAUAAAUGUGAUU  
(((((((.(.....&..))))....))))). -  
17.65  
>ENSG00000107562 hs-mir-23b 1452 1459  
AUCACAUUGCCAGGGAUUACCAC&CAGUGUAUUUUUCACUUGUACUAAAUAUGUAUCAAAUGUGAC  
.(((((((.(((((((((..&..))))....)))))).)))))). -12.47  
>ENSG00000107562 hs-mir-23b 1976 1983  
AUCACAUUGCCAGGGAUUACCAC&UAAAUCAUUAAAUACCAUUCAGCUUGAAUCAUUUAAAUGUGAC  
.(((((((.(.....&.....))))....))))). -14.60  
mir-23b ENSMUSG00000030130 3486 nt UTR 3 hits 830 1888 2470

```

-----1-----
-1-----1-----
>ENSMUSG00000030130 hs-mir-23b      830      837
AUCACAUUGCCAGGGAUUACCAC&GGCCUCCUGUAGAAUGGAGCCAGACCAUCCUGGAUAAUGUGAG
.((((((((((((((((.....&.....)))))))))).)))))))). -24.00
>ENSMUSG00000030130 hs-mir-23b      1888     1895
AUCACAUUGCCAGGGAUUACCAC&UAAAUCAUUAAAUACCAUUCAGCUUGAAUCAUUUAAUGUGAC
.((((((((.....((((.....&.....)))))).)))))))). -14.60
>ENSMUSG00000030130 hs-mir-23b      2470     2477
AUCACAUUGCCAGGGAUUACCAC&GUGGGAACUGAGAUAGAUACACUCCUCUAUGUUGCAAUGUGAUU
((((((((((((((((.....(((&))))).)))))).)))))))). -
21.60
mir-23b      ENSRNOG00000013589  3497 nt UTR      3 hits 847 1895 2465

```

```

-----1-----
-1-----1-----
>ENSRNOG00000013589 hs-mir-23b      847      854
AUCACAUUGCCAGGGAUUACCAC&GGCCUCCUGUAGAAUGGAGCCAGCCCCUCCUGGAUAAUGUGAG
.((((((((((((((((.....&.....)))))))))).)))))))). -23.80
>ENSRNOG00000013589 hs-mir-23b      1895     1902
AUCACAUUGCCAGGGAUUACCAC&UAAAUCAUUAAAUACCAUUCAGCUUGAAUCAUUUAAUGUGAC
.((((((((.....((((.....&.....)))))).)))))))). -14.60
>ENSRNOG00000013589 hs-mir-23b      2465     2472
AUCACAUUGCCAGGGAUUACCAC&GUGGGAACUGAGAGAGAUACCCUCCAUUGUUGCAAUGUGAUU
((((((((((((((((.....(((&))))).)))))).)))))))). -
23.30

```

miRNA: mir-23b

Human predicted target: ENSG00000108179

Mouse predicted target: ENSMUSG00000021868

Rat predicted target: ENSRNOG00000010558

Hs Gene description: PEPTIDYL-PROLYL CIS-TRANS ISOMERASE, MITOCHONDRIAL  
 PRECURSOR (EC 5.2.1.8) (PPIASE) (ROTAMASE) (CYCLOPHILIN F).

[Source:SWISSPROT;Acc:P30405] NM\_005729

mir-23b ENSG00000108179 3492 nt UTR 2 hits 679 845

```

-----1-----1-----
>ENSG00000108179 hs-mir-23b      679      686
AUCACAUUGCCAGGGAUUACCAC&CCUGGGAACAAACCUCACUUGAGCUGUGCCUAGACAAUGUGAA
.((((((((((((((((.....&.....)))))))))).)))))))). -20.60
>ENSG00000108179 hs-mir-23b      845      852
AUCACAUUGCCAGGGAUUACCAC&AAACAUUUCUGGAACAUGGAUUUGUGUUCACCUUAAAUGUGAA
.((((((((((((((((.....&.....)))))).)))))))). -18.45
mir-23b      ENSMUSG00000021868  2862 nt UTR      2 hits 667 835

```

```

-----1-----1-----
>ENSMUSG00000021868 hs-mir-23b      667      674
AUCACAUUGCCAGGGAUUACCAC&CUGGGAACAGACCUGUGAGCCCGGUCUUCUGCUCAAUGUGAA

```

```

((((((((((...((((((...&.....)))))))).))))). -22.90
>ENSMUSG00000021868 hs-mir-23b      835      842
AUCACAUUGCCAGGGAUUACCAC&AAAGAUUUCUGGGACAGUCCUGUGUGUUCUCAAUGUGAUA
((((((((((((((((((...&.....)))))))).)))).))))). -
21.30
mir-23b      ENSRNOG00000010558      2838 nt UTR      3 hits 645 807 1328
-----1-----1-----1-----
-----
>ENSRNOG00000010558 hs-mir-23b      645      652
AUCACAUUGCCAGGGAUUACCAC&CUGGGGACAGACCUGUGAGCCAGGCCUGUCUGCUCAAUGUGAA
((((((((((((((((((...&.....)))))))).)))).))))). -19.02
>ENSRNOG00000010558 hs-mir-23b      807      814
AUCACAUUGCCAGGGAUUACCAC&AGAAGAUUUCUGAACAGUCCUCUGUGUUCUCAAUGUGAUA
((((((((((((((((((.....&.....)))))))).)))).)))).))))). -
20.30
>ENSRNOG00000010558 hs-mir-23b      1328      1335
AUCACAUUGCCAGGGAUUACCAC&UGC UAAUGAUCGAGCUUCAGUUUCUCUCAGCCAUAAUGUGAC
((((((((((...&.....)))))))).))))). -14.80

```

miRNA: mir-23b

Human predicted target: ENSG00000137942  
 Mouse predicted target: ENSMUSG00000039735  
 Rat predicted target: ENSRNOG00000013798  
 Hs Gene description: NM\_017737

```

mir-23b      ENSG00000137942      4245 nt UTR      3 hits 1740 1829 2769
-----1-----
1-----1-----
-----
>ENSG00000137942 hs-mir-23b      1740      1747
AUCACAUUGCCAGGGAUUACCAC&UAGAUUUGAAUCUCGUUACAGGGUUAUUUAUAAUGUGAC
((((((((((((((((((...&.....)))))))).))))). -17.40
>ENSG00000137942 hs-mir-23b      1829      1836
AUCACAUUGCCAGGGAUUACCAC&GCUAUUUUUUUUUAAAGGUUAGCAAUGAGGAGGAAAUGUGAUC
((((((((((...&.....)))))))).)))).))))). -
17.30
>ENSG00000137942 hs-mir-23b      2769      2776
AUCACAUUGCCAGGGAUUACCAC&UCUAAUUCAGAAUUCACCUUUUAAAAAUGCAAUGUGAA
((((((((((...&.....)))))))).)))).))))). -14.40
mir-23b      ENSMUSG00000039735      5380 nt UTR      5 hits 1902 2621 2876 2965
3441
-----1-----1-----1-----1-----
-----
>ENSMUSG00000039735 hs-mir-23b      1902      1909
AUCACAUUGCCAGGGAUUACCAC&UCUGCUCUAGCCUGCAGCCCAGUUACCGACUCUGAAAUGUGAC
((((((((((...&.....)))))))).))))). -19.10
>ENSMUSG00000039735 hs-mir-23b      2621      2628

```

AUCACAUUGCCAGGGAUUACCAC&CGUUUGGUUCUUUACUGUUGUGAGGGGAGAAAGAGAAUGUGAA  
.((((((((((((((...((...&....))))))...))))).....)))))))). -15.43  
>ENSMUSG00000039735 hs-mir-23b 2876 2883  
AUCACAUUGCCAGGGAUUACCAC&UUAGAUUAAAUCUCGUUACAGGGUUAUUUUAUAAAUGUGAC  
.((((((((((((((...((...&....))))))...))))).....)))))))). -17.40  
>ENSMUSG00000039735 hs-mir-23b 2965 2972  
AUCACAUUGCCAGGGAUUACCAC&GCUAUUUUUUAUUUCAAAAGUUAGCAAUGAGAAGGAAAUGUGAC  
.((((((((((((((...&....))))))...))))).....)))))))). -15.20  
>ENSMUSG00000039735 hs-mir-23b 3441 3448  
AUCACAUUGCCAGGGAUUACCAC&CUGCUCUGGAACCAAAGAGACUCGGAGCACCUUAAAUGUGAUA  
((((((((((((((...((...&....))))))...))))).....)))))))). -  
19.50  
mir-23b ENSRNOG00000013798 5105 nt UTR 5 hits 1674 2358 2612 2701  
4695

-----1-----  
-----1-----1--1-----  
-----1-----  
>ENSRNOG00000013798 hs-mir-23b 1674 1681  
AUCACAUUGCCAGGGAUUACCAC&UGCUCUAGCCUGCAGCCCAGUUAAAAGACUCUGUGAAAUGUGAC  
.((((((((((((((...&....))))))...))))).....)))))))). -18.90  
>ENSRNOG00000013798 hs-mir-23b 2358 2365  
AUCACAUUGCCAGGGAUUACCAC&AAUUUGGUUCUUUACUGUUUUGGGGGGAGAAGAACAAUGUGAA  
.((((((((((((((((((...((...&....))))))...))))).....)))))))). -18.00  
>ENSRNOG00000013798 hs-mir-23b 2612 2619  
AUCACAUUGCCAGGGAUUACCAC&UUAGAUUAAAUCUCGUUACAGGGUUAUUUUAUAAAUGUGAC  
.((((((((((((((...((...&....))))))...))))).....)))))))). -17.40  
>ENSRNOG00000013798 hs-mir-23b 2701 2708  
AUCACAUUGCCAGGGAUUACCAC&GCUAUUUUUUAUUUCAGAAGUUAGCAAUGAGAAGGAAAUGUGAC  
.((((((((((((((...&....))))))...))))).....)))))))). -15.20  
>ENSRNOG00000013798 hs-mir-23b 4695 4702  
AUCACAUUGCCAGGGAUUACCAC&UGCUCUAGCCUGCAGCCCAGUUAAAAGACUCUGUGAAAUGUGAC  
.((((((((((((((((((...&....))))))...))))).....)))))))). -18.90

miRNA: mir-23b  
Human predicted target: ENSG00000168819  
Mouse predicted target: ENSMUSG00000049322  
Rat predicted target: ENSRNOG00000009194  
Hs Gene description: ZINC FINGER PROTEIN 292.  
[Source:SWISSPROT;Acc:O60281]  
mir-23b ENSG00000168819 2000 nt UTR 2 hits 771 838  
-----1--1-----  
-----  
>ENSG00000168819 hs-mir-23b 771 778  
AUCACAUUGCCAGGGAUUACCAC&GAUUAUAGUUACUAUGAGUCCAUGAAAUACAAUGGAAAUGUGAA  
.((((((((((((((((((...&....))))))...))))).....)))))))). -19.80  
>ENSG00000168819 hs-mir-23b 838 845  
AUCACAUUGCCAGGGAUUACCAC&UUUAAACAUUUGGUUAUUAAAAAAAAAAUCCUUUGUGAAUGUGAUA

(((((((((((((.....&.....)))))).....)))))).. -  
23.40

mir-23b ENSMUSG00000049322 2110 nt UTR 2 hits 742 807

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

>ENSMUSG00000049322 hs-mir-23b 742 749  
AUCACAUUGCCAGGGAUUACCAC&GAUAUAGUUACUAUGAGUCCCUGAAAUGUAACGGAAAUGUGAA  
.(((((((((((((.....&.....)))))).....)))))).. -21.90

>ENSMUSG00000049322 hs-mir-23b 807 814  
AUCACAUUGCCAGGGAUUACCAC&AUUUUAAACAUGGUUUUUUAAGAUUCCUUUGUCAUGUGAUA  
(((((((((((((.....&.....)))))).....)))))).. -  
25.50

mir-23b ENSRNOG00000009194 2113 nt UTR 2 hits 733 798

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

>ENSRNOG00000009194 hs-mir-23b 733 740  
AUCACAUUGCCAGGGAUUACCAC&UCAGAUAGCUACUCCAAGUCCCGAAAUGUAAUGGAAAUGUGAA  
.(((((((((((((.....&.....)))))).....)))))).. -21.90

>ENSRNOG00000009194 hs-mir-23b 798 805  
AUCACAUUGCCAGGGAUUACCAC&AUUUUAAACAUGCUUUUUUAAGAUUCCUUUGUCAUGUGAUA  
(((((((((((((.....&.....)))))).....)))))).. -  
22.00

miRNA: mir-24

Human predicted target: ENSG00000100226

Mouse predicted target: ENSMUSG00000042535

Rat predicted target: ENSRNOG00000014634

Hs Gene description: GTP-BINDING PROTEIN 1 (G-PROTEIN 1) (GP-1) (GP1).

[Source:SWISSPROT;Acc:O00178] NM\_014027

mir-24 ENSG00000100226 4873 nt UTR 2 hits 997 1030

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

>ENSG00000100226 hs-mir-24 997 1004  
UGGCUCAGUUCAGCAGGAACAG&AGCACCUCUGUUGGAGGGUGGAGGGAUGUUCCCCUGAGCCAG  
(((((((((((((.....&.....)))))).....)))))).. -30.00

>ENSG00000100226 hs-mir-24 1030 1037  
UGGCUCAGUUCAGCAGGAACAG&CCCUGAGCCAGGCUGAGACUAGAACCCCAUCUCCCCUGAGCCAG  
(((((((((((((.....&.....)))))).....)))))).. -28.46

mir-24 ENSMUSG00000042535 3379 nt UTR 3 hits 866 1032 3294

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

>ENSMUSG00000042535 hs-mir-24 866 873  
UGGCUCAGUUCAGCAGGAACAG&CAGGAGGCUCUCCUGUUUCUACUUAAGAUUCUCUGGCUGAGCCU  
.(((((((((((((.....&.....)))))).....)))))).. -26.69

>ENSMUSG00000042535 hs-mir-24 1032 1039  
UGGCUCAGUUCAGCAGGAACAG&AACCGCUACAGCCAUGCCACAUAGCAGUGAAGGGUCUGAGCCC



```

((((((((((((((((((((.....&.....))))))))))))))))). -20.50
>ENSMUSG00000042535 hs-mir-24 3294 3301
UGGCUCAGUUCAGCAGGAACAG&AGCCUCUGAGAGACCCAGGGCAGGGGGCAGAGGCACUGAGCCC
((((((((((((((((((((.....&.....))))))))))))))))). -23.41
mir-24 ENSRNOG00000014634 3291 nt UTR 3 hits 821 956 1965
-----1-----1-----1-----
-----1-----
>ENSRNOG00000014634 hs-mir-24 821 828
UGGCUCAGUUCAGCAGGAACAG&CUGGAGGUUCUUCUGUUAUGUCUCUGGCUGAGCCU
((((((((((((((((((((.....&.....))))))))))))))))). -26.19
>ENSRNOG00000014634 hs-mir-24 956 963
UGGCUCAGUUCAGCAGGAACAG&CCAUGCACAGCCAUGCCACAUAAGCAGGGAAGGGCCUGAGCCC
((((((((((((((((((((.....&.....))))))))))))))))). -21.61
>ENSRNOG00000014634 hs-mir-24 1965 1972
UGGCUCAGUUCAGCAGGAACAG&CUGUUAUUAACAGGGACCACAAAGGUCCUUCAGAACUGAGCCC
((((((((((((((((((((.....&.....))))))))))))))))). -26.99

```

miRNA: mir-24

Human predicted target: ENSG00000162065  
 Mouse predicted target: ENSMUSG00000036473  
 Rat predicted target: ENSRNOG00000006708

```

mir-24 ENSG00000162065 4527 nt UTR 4 hits 329 348 1223 1834
-----2-----1-----
1-----
-----1-----
>ENSG00000162065 hs-mir-24 329 336
UGGCUCAGUUCAGCAGGAACAG&CCCAAGGCCUUGGGAGUGUCUGGGUCUUGCUGCCCCUGAGCCU
((((((((((((((((((((.....&.....))))))))))))))))). -32.20
>ENSG00000162065 hs-mir-24 348 355
UGGCUCAGUUCAGCAGGAACAG&CUGGGUCUUGCUGCCCCUGAGCCUCUCUAGGCAGCCUGAGCCC
((((((((((((((((((((.....&.....))))))))))))))))). -27.55
>ENSG00000162065 hs-mir-24 1223 1230
UGGCUCAGUUCAGCAGGAACAG&CUUACAGCCUUGGGCCCCUGGGCCCCUGCCUGCCUGAGCCC
((((((((((((((((((((.....&.....))))))))))))))))). -26.80
>ENSG00000162065 hs-mir-24 1834 1841
UGGCUCAGUUCAGCAGGAACAG&UCAUCUCAGCCCACCGCAGCCUCCAGGCCCCCGCCUGAGCCC
((((((((((((((((((((.....&.....))))))))))))))))). -20.60
mir-24 ENSMUSG00000036473 4940 nt UTR 4 hits 883 1023 1687 2372
-----1-----1-----1-----
-----1-----
>ENSMUSG00000036473 hs-mir-24 883 890
UGGCUCAGUUCAGCAGGAACAG&AGGCCUGGCCUGGCUUGGACUUAAGGUUAGGAUUCUGAGCCC
((((((((((((((((((((.....&.....))))))))))))))))). -25.96
>ENSMUSG00000036473 hs-mir-24 1023 1030
UGGCUCAGUUCAGCAGGAACAG&GUACCCACAUAUGCCAAGGCUACAUAUCCAUGCCCCUGAGCCU
((((((((((((((((((((.....&.....))))))))))))))))). -24.20

```

>ENSMUSG00000036473 hs-mir-24 1687 1694  
UGGCUCAGUUCAGCAGGAACAG&AUUAAGGCCUUCAGGUCUCUGGAUGUCUGUGCUUCCUGAGCCC  
.((((((((.....((((((..(((&.....)))))).....)))))))). -24.70  
>ENSMUSG00000036473 hs-mir-24 2372 2379  
UGGCUCAGUUCAGCAGGAACAG&CUACAGAAGGUUAUAAGCCUCAUGCCCACUUCCCCUGAGCCC  
.((((((((.....((((((..((.....&.....))))..)).....)))))))). -18.50  
mir-24 ENSRNOG00000006708 4128 nt UTR 4 hits 916 1383 2970 3496  
-----1-----1-----1-----1-----  
-----1-----1-----1-----1-----

>ENSRNOG00000006708 hs-mir-24 916 923  
UGGCUCAGUUCAGCAGGAACAG&AUUAUGACCUCUAGGUCUCUGGAUGUCUGUGCUUCCUGAGCCC  
.((((((((.....((((((..(((&.....)))))).....)))))))). -24.70  
>ENSRNOG00000006708 hs-mir-24 1383 1390  
UGGCUCAGUUCAGCAGGAACAG&CCACAGAAUGGUGUAAGCCUCAGCGCCCAUCCCCCUGAGCCC  
.((((((((.....((((((..(((&.....))))..)).....)))))))). -19.36  
>ENSRNOG00000006708 hs-mir-24 2970 2977  
UGGCUCAGUUCAGCAGGAACAG&AUUAUGACCUCUAGGUCUCUGGAUGUCUGUGCUUCCUGAGCCC  
.((((((((.....((((((..(((&.....)))))).....)))))))). -24.70  
>ENSRNOG00000006708 hs-mir-24 3496 3503  
UGGCUCAGUUCAGCAGGAACAG&CCACAGAAUGGUGUAAGCCUCAGCGCCCAUCCCCCUGAGCCC  
.((((((((.....((((((..(((&.....))))..)).....)))))))). -19.36

miRNA: mir-24  
Human predicted target: ENSG00000162236  
Mouse predicted target: ENSMUSG00000010110  
Rat predicted target: ENSRNOG00000018847  
Hs Gene description: SYNTAXIN 5. [Source:SWISSPROT;Acc:Q13190] NM\_003164  
mir-24 ENSG00000162236 2000 nt UTR 3 hits 72 463 1658  
--1-----1-----1-----1-----  
-----

>ENSG00000162236 hs-mir-24 72 79  
UGGCUCAGUUCAGCAGGAACAG&GACCCUCCUGGGAAGGCAAGUGGCCAGUGCCACUGAGCCU  
.((((((((((..(((((.....&.....))))..)).....)))))))). -28.40  
>ENSG00000162236 hs-mir-24 463 470  
UGGCUCAGUUCAGCAGGAACAG&CUUUCUUCUUCUUCACCAUGUGAGGCAGGGAGCCCUGAGCCC  
.((((((((((..((.....((.....&.....))))..)).....)))))))). -21.40  
>ENSG00000162236 hs-mir-24 1658 1665  
UGGCUCAGUUCAGCAGGAACAG&CCGAGCUGAAACACUGGCUAGAUUCCGGUAGGGGUCUGAGCCAU  
((((((((((((((..((.....&.....)))))).....)))))))). -25.51  
mir-24 ENSMUSG00000010110 2573 nt UTR 3 hits 77 464 2135  
---1-----1-----1-----1-----  
-----1-----1-----1-----1-----

>ENSMUSG00000010110 hs-mir-24 77 84  
UGGCUCAGUUCAGCAGGAACAG&GAUCCUCCUGGGAGGACAGGUGGCUACUAUUGCCACUGAGCCU  
.((((((((((((((..((.....&.....))))..)).....)))))))). -25.00  
>ENSMUSG00000010110 hs-mir-24 464 471

UGGCUCAGUUCAGCAGGAACAG&GCCGCCUUCUCCUCACCAUGUGAGGUGAGGGGGCUCUGAGCCC  
.(((((((((((((((((.....&.....)))))).....)))))))). -20.20  
>ENSMUSG00000010110 hs-mir-24 2135 2142  
UGGCUCAGUUCAGCAGGAACAG&GGCUCCUUGGCGUUUGGUGGCGUCAGGUUCUGCGCCUGAGCCC  
.(((((((((((((((((.....&.....)))))).....)))))))). -25.20  
mir-24 ENSRNOG00000018847 2575 nt UTR 3 hits 80 471 2494  
-----1-----1-----  
-----1-----  
>ENSRNOG00000018847 hs-mir-24 80 87  
UGGCUCAGUUCAGCAGGAACAG&AACCCUUCUGGAAGGACAGGUGGCCACUAUUGCCACUGAGCCU  
.(((((((((((((((((.....&.....)))))).....)))))))). -23.40  
>ENSRNOG00000018847 hs-mir-24 471 478  
UGGCUCAGUUCAGCAGGAACAG&CCACCUUCUCCUCACCAUGUGAGGUGGGGGGGGCUCUGAGCCC  
.(((((((((((((((((.....&.....)))))).....)))))))). -20.05  
>ENSRNOG00000018847 hs-mir-24 2494 2501  
UGGCUCAGUUCAGCAGGAACAG&GGCGUCCGGUGUUUGGUGGCGUCAGGUUCUGCGCCUGAGCCC  
.(((((((((((((((((.....&.....)))))).....)))))))). -25.20

miRNA: mir-24

Human predicted target: ENSG00000166484

Mouse predicted target: ENSMUSG00000001034

Rat predicted target: ENSRNOG00000002412

Hs Gene description: MITOGEN-ACTIVATED PROTEIN KINASE 7 (EC 2.7.1.-)  
(EXTRACELLULAR SIGNAL- REGULATED KINASE 5) (ERK-5) (ERK4) (BMK1 KINASE).

[Source:SWISSPROT;Acc:Q13164] NM\_139032

mir-24 ENSG00000166484 2313 nt UTR 4 hits 156 1520 1606 2196

-----1-----1-----1-----1-----1-----  
-----1-----  
>ENSG00000166484 hs-mir-24 156 163  
UGGCUCAGUUCAGCAGGAACAG&CAUCUCAGACCCACCUUUCAGCCUUAAGCAGCCACCUGAGCCAC  
(((((((((((((((((((((.....&.....)))))).....)))))))). -20.40  
>ENSG00000166484 hs-mir-24 1520 1527  
UGGCUCAGUUCAGCAGGAACAG&GAGGAGAGAAGGGUUGGGGCUGCUGAGGCAGGGAACUGAGCCC  
.(((((((((((((((((((((.....&.....)))))).....)))))))). -27.70  
>ENSG00000166484 hs-mir-24 1606 1613  
UGGCUCAGUUCAGCAGGAACAG&UCACGUGGCAGCCUGGCGGGAUGGGGGCACCUCUCCUGAGCCAG  
(((((((((((((((((((((.....&.....)))))).....)))))))). -23.33  
>ENSG00000166484 hs-mir-24 2196 2203  
UGGCUCAGUUCAGCAGGAACAG&CAGCUUGUAGUCAUUCAGCCGCGGAAGAAACUACUGAGCCAU  
(((((((((((((((((((((.....&.....)))))).....)))))))). -23.50  
mir-24 ENSMUSG00000001034 2301 nt UTR 3 hits 158 1486 2183  
-----1-----1-----1-----1-----  
-----1-----  
>ENSMUSG00000001034 hs-mir-24 158 165  
UGGCUCAGUUCAGCAGGAACAG&CAUCUCAGACCCACCUUUCAGCCUUAAGCAGCCACCUGAGCCAC  
(((((((((((((((((((((.....&.....)))))).....)))))))). -20.40  
>ENSMUSG00000001034 hs-mir-24 1486 1493

UGGCUCAGUUCAGCAGGAACAG&UGAUGUGGCAUCCUAUCGGAUGGGGGGCACCCUCCUGAGCCAC  
(((((((((((((...(((...&.....))))))....)))))))). -20.16  
>ENSMUSG00000001034 hs-mir-24 2183 2190  
UGGCUCAGUUCAGCAGGAACAG&CAGCUUGUAGUCGCUCCAGCCCCGGAAGAAACUCACUGAGCCGU  
(((((((((((((...(((...&.....))))))....)))))))). -22.00  
mir-24 ENSRNOG00000002412 2302 nt UTR 3 hits 159 1475 2050  
-----1-----1-----  
-----1-----  
>ENSRNOG00000002412 hs-mir-24 159 166  
UGGCUCAGUUCAGCAGGAACAG&CAUCUCAGACCCACCGUUCAGCCUUAAGCAGCCGCCUGAGCCAC  
(((((((((((((...(((...&.....))))))....)))))))). -20.50  
>ENSRNOG00000002412 hs-mir-24 1475 1482  
UGGCUCAGUUCAGCAGGAACAG&AUUAUGUGGCAUCCUAUUGGAUGAGGGCACCCUCCUGAGCCAC  
(((((((((((((...(((...&.....))))))....)))))))). -23.93  
>ENSRNOG00000002412 hs-mir-24 2050 2057  
UGGCUCAGUUCAGCAGGAACAG&CAGCUUGUAGUCGUUCCAACCCCGGAAGAAACUCACUGAGCCGU  
(((((((((((((...(((...&.....))))))....)))))))). -23.60

miRNA: mir-24

Human predicted target: ENSG00000167771

Mouse predicted target: ENSMUSG00000024968

Rat predicted target: ENSRNOG00000021183

Hs Gene description: NM\_173587

mir-24 ENSG00000167771 2635 nt UTR 3 hits 1064 1145 2189

-----1-----1-----  
-----1-----  
>ENSG00000167771 hs-mir-24 1064 1071  
UGGCUCAGUUCAGCAGGAACAG&AGGAGGGGGGAAGGGAGGGGGAGCCCUUGGUCUGAGCCGC  
(((((((((((((...(((...&.....))))))....)))))))). -22.40  
>ENSG00000167771 hs-mir-24 1145 1152  
UGGCUCAGUUCAGCAGGAACAG&GCCCUUCCUAGGACGCAAGGGCUCGGCUUAAUCGCUGAGCCU  
(((((((((((((...(((...&.....))))))....)))))))). -22.39  
>ENSG00000167771 hs-mir-24 2189 2196  
UGGCUCAGUUCAGCAGGAACAG&GAGCUCCACCACUCUUGCCUGAGAGUGUCCAGCCCUGAGCCAC  
(((((((((((((...(((...&.....))))))....)))))))). -27.90  
mir-24 ENSMUSG00000024968 2567 nt UTR 3 hits 951 1028 1997  
-----1-----1-----  
-----1-----  
>ENSMUSG00000024968 hs-mir-24 951 958  
UGGCUCAGUUCAGCAGGAACAG&CCAUAGGGCAAGAGGGGAGAGGAGCCCUUGGUCUGAGCCAU  
(((((((((((((...(((...&.....))))))....)))))))). -23.20  
>ENSMUSG00000024968 hs-mir-24 1028 1035  
UGGCUCAGUUCAGCAGGAACAG&GGCAAGGUUCCUGGAACCCAAGACUCAUGUGUUGCUGAGCCU  
(((((((((((((...(((...&.....))))))....)))))))). -27.69  
>ENSMUSG00000024968 hs-mir-24 1997 2004  
UGGCUCAGUUCAGCAGGAACAG&GAACUCCACCACUCUUGCCUGAGAGUGUCCAGCCCUGAGCCAC  
(((((((((((((...(((...&.....))))))....)))))))). -27.90

mir-24 ENSRNOG00000021183 2565 nt UTR 4 hits 313 684 975 2055  
-----1-----1-----1-----  
-----1-----  
>ENSRNOG00000021183 hs-mir-24 313 320  
UGGCUCAGUUCAGCAGGAACAG&UGGCCUCUGGGCCUACCCUUGUGUGUGGUAGUGACUGAGCCU  
.(((((((((((((.....)))))).....))))). -25.03  
>ENSRNOG00000021183 hs-mir-24 684 691  
UGGCUCAGUUCAGCAGGAACAG&CCAAUUCUCUUCUGCCAGGCAGGCAGGCGGGCGGGCUGAGCCAC  
(((((((((((((.....&.....)))))).....))))). -26.67  
>ENSRNOG00000021183 hs-mir-24 975 982  
UGGCUCAGUUCAGCAGGAACAG&CCGUAGGGCAAGAGGGGAAAGGAGAAGCCUUGGUCUGAGCCAU  
(((((((((((((.....&.....)))))).....))))). -23.20  
>ENSRNOG00000021183 hs-mir-24 2055 2062  
UGGCUCAGUUCAGCAGGAACAG&GAACCCACCACUCUUGCCUGAGAGUGUCCAGCCCUGAGCCAU  
(((((((((((((.....(((((.....&.....)))))).....))))). -28.00

miRNA: mir-24

Human predicted target: ENSG00000169635

Mouse predicted target: ENSMUSG00000050240

Rat predicted target: ENSRNOG00000001863

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

mir-24 ENSG00000169635 2050 nt UTR 3 hits 682 822 1970  
-----1-----1-----  
----1---  
>ENSG00000169635 hs-mir-24 682 689  
UGGCUCAGUUCAGCAGGAACAG&GACAAUAGCUUAUUUUCUUCGCCCCUCCGGGGCUGAGCCU  
.(((((((((((((.....(((((.....&.....)))))).....))))). -26.10  
>ENSG00000169635 hs-mir-24 822 829  
UGGCUCAGUUCAGCAGGAACAG&CAGAAGCCCUUCUUGCCCAAAGGCUUCCUGGUCCUGAGCCC  
.(((((((((((((.....(((((.....&.....)))))).....))))). -23.10  
>ENSG00000169635 hs-mir-24 1970 1977  
UGGCUCAGUUCAGCAGGAACAG&GGGGUGAGGGAGCUUGGGUAGAUGAGGCUCCUGGCUGAGCCC  
.(((((((((((((.....(((((.....&.....)))))).....))))). -22.80  
mir-24 ENSMUSG00000050240 2000 nt UTR 3 hits 914 1321 1928  
-----1-----1-----

---1--  
>ENSMUSG00000050240 hs-mir-24 914 921  
UGGCUCAGUUCAGCAGGAACAG&CCAGAAGCCUUCUUGCCCAAAGGCUUCCUGAUUCUGAGCCC  
.(((((((((((((.....(((((.....&.....)))))).....))))). -24.70  
>ENSMUSG00000050240 hs-mir-24 1321 1328  
UGGCUCAGUUCAGCAGGAACAG&CUACCUCUUGAAUCAAUACCCAGUACAGUUGAGGCUGAGCCAC  
(((((((((((((.....&.....)))))).....))))). -25.30  
>ENSMUSG00000050240 hs-mir-24 1928 1935  
UGGCUCAGUUCAGCAGGAACAG&GGCACCUGGCCAAACCUCACAUAGUGCCUGUGUACUGAGCCAG  
(((((((((((((.....(((((.....&.....)))))).....))))). -31.10  
mir-24 ENSRNOG00000001863 2000 nt UTR 3 hits 790 1174 1777

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

>ENSRNOG00000001863 hs-mir-24 790 797  
UGGCUCAGUUCAGCAGGAACAG&CCAGAAGCCCUUCUUGCCCAAAGGCUUCCUGAUCCUGAGCCC  
.(((((((.((((..(((...&.....)))))))).))))). -24.20  
>ENSRNOG00000001863 hs-mir-24 1174 1181  
UGGCUCAGUUCAGCAGGAACAG&CUACCUCUUGAAUUCAAUACCCAGUACAGUUGAGGCUGAGCCAC  
(((((((.((((..(((...&.....)))))))).))))). -25.30  
>ENSRNOG00000001863 hs-mir-24 1777 1784  
UGGCUCAGUUCAGCAGGAACAG&GGUACCUGGCCAGGCCUCCACAUUGUGCCCUUGGACUGAGCCAG  
(((((((.((((..(((...&.....)))))))).))))). -29.40

miRNA: mir-24

Human predicted target: ENSG00000169991

Mouse predicted target: ENSMUSG00000041025

Rat predicted target: ENSRNOG00000018519

mir-24 ENSG00000169991 6280 nt UTR 4 hits 304 461 1259 4700

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

>ENSG00000169991 hs-mir-24 304 311  
UGGCUCAGUUCAGCAGGAACAG&GACUUUGCAGUGUUAACUGUGCCUUCUCCCUUAAGCUGAGCCAC  
(((((((.((((..(((...&.....)))))))).))))). -26.70  
>ENSG00000169991 hs-mir-24 461 468  
UGGCUCAGUUCAGCAGGAACAG&CUCUGAUUGGCCAUGGGCUAUGCCCUCCCUUCCUCCUGAGCCAG  
(((((((.((((..(((...&.....)))))))).))))). -21.60  
>ENSG00000169991 hs-mir-24 1259 1266  
UGGCUCAGUUCAGCAGGAACAG&AGCAGUUCUCCUCGACUGGCCAGUCGGGGUAUUGAUCUGAGCCAG  
(((((((.((((..(((...&.....)))))))).))))). -25.61  
>ENSG00000169991 hs-mir-24 4700 4707  
UGGCUCAGUUCAGCAGGAACAG&UGGGCAUGUUCAGGGCAACAUGCCCAAUGUGAACUGAGCCC  
.(((((((.((((..(((...&.....)))))))).))))). -29.46  
mir-24 ENSMUSG00000041025 2660 nt UTR 4 hits 59 256 1197 2575

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

>ENSMUSG00000041025 hs-mir-24 59 66  
UGGCUCAGUUCAGCAGGAACAG&UGGUCUUGGUGAUGGGGUCCAGCCUCCUCUCCCCACUGAGCCGU  
(((((((.((((..(((...&.....)))))))).))))). -26.34  
>ENSMUSG00000041025 hs-mir-24 256 263  
UGGCUCAGUUCAGCAGGAACAG&CGUCGAUGCAGUGCAACUGUGCCUUCUCCCUUAAGCUGAGCCAC  
(((((((.((((..(((...&.....)))))))).))))). -26.70  
>ENSMUSG00000041025 hs-mir-24 1197 1204  
UGGCUCAGUUCAGCAGGAACAG&UUCAUACAUGCUUCCAUAACCAUCUGUCUGGACGCUGAGCCAG  
(((((((.((((..(((...&.....)))))))).))))). -28.10  
>ENSMUSG00000041025 hs-mir-24 2575 2582  
UGGCUCAGUUCAGCAGGAACAG&AAACAUGUACAUAUGUUCUCUUGACUUUUCUAUGUCUGAGCCC

.(((((((((((((.....)))))))).))))). -22.20  
mir-24 ENSRNOG00000018519 2000 nt UTR 3 hits 62 274 1209  
-----1-----1-----1-----  
-----  
>ENSRNOG00000018519 hs-mir-24 62 69  
UGGCUCAGUUCAGCAGGAACAG&UGGUCUUGGUGAUGGGGCCAGCCUCCUCUCCCACUGAGCCAU  
((((((((((((((.....)))))))).))))). -27.04  
>ENSRNOG00000018519 hs-mir-24 274 281  
UGGCUCAGUUCAGCAGGAACAG&CGUCGAUGCAGUGCAAUUGUGCCUUCUCCCUUAAGCUGAGCCAC  
((((((((((((((.....)))))))).))))). -24.50  
>ENSRNOG00000018519 hs-mir-24 1209 1216  
UGGCUCAGUUCAGCAGGAACAG&UUCAUACCUGCUUCCAUACCACUUGGCUGGACGCUGAGCCAG  
((((((((((((((.....)))))))).))))). -28.80

miRNA: mir-24

Human predicted target: ENSG00000179905

Mouse predicted target: ENSMUSG00000049932

Rat predicted target: ENSRNOG00000010386

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&CCUUUUAAGGGCCACCACCGCCUCAUGGAAAGAGCUGAGCCGC  
((((((((((((((.....&.....)))))))).))))). -23.80  
>ENSG00000179905 hs-mir-24 1037 1044  
UGGCUCAGUUCAGCAGGAACAG&AGAUACCAGCACAAGUCGGUUAUCCUGUCUGGACUGAGCCU  
((((((((((((((.....&.....)))))))).))))). -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&AGAUACCAGCACAAGCCGGUGAAUCCUGUCUGGACUGAGCCU  
((((((((((((((.....&.....)))))))).))))). -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&CCUUUUAAGGGCCACCACCUCCUCACAGAAAGAGCUGAGCCAC  
((((((((((((((.....&.....)))))))).))))). -24.50

>ENSRNOG00000010386 hs-mir-24 737 744  
UGGCUCAGUUCAGCAGGAACAG&AGAUACCAGCACAAAGUCGGUGAAUCCCUGUCUGGACUGAGCCU  
.((((((((((((((((.....&.....)))))))))..)))))))). -34.30  
>ENSRNOG00000010386 hs-mir-24 1772 1779  
UGGCUCAGUUCAGCAGGAACAG&CUGGAUGGUGGCCUGCAUGGUCUCUUGCAUGCUAUCUGAGCCAU  
(((((((((((((.....&.....))))))..))))..)))))))). -27.79

miRNA: mir-25

Human predicted target: ENSG00000049618  
Mouse predicted target: ENSMUSG00000023804  
Rat predicted target: ENSRNOG00000017030  
Hs Gene description: BRG1-BINDING PROTEIN ELD/OSA1; ELD (EYELID)/OSA  
PROTEIN. [Source:RefSeq;Acc:NM\_020732]

mir-25 ENSG00000049618 2470 nt UTR 2 hits 489 1811  
-----1-----1-

>ENSG00000049618 hs-mir-25 489 496  
CAUUGCACUUGUCUCGGUCUGA&AAUGAAAAAACUGCAUCCCAUCACCCAAAGUUCUGUGCAAUA  
.((((((((.....((..((..(((&.....))))..))..))..)))))))). -16.60

>ENSG00000049618 hs-mir-25 1811 1818  
CAUUGCACUUGUCUCGGUCUGA&AUUUAGUUUACUCCACCGUGUAUAAUAAUUUAUACUGUGCAAUGU  
((((((((((((((((.....&.....))))))..))..))..)))))))). -19.10

mir-25 ENSMUSG00000023804 2000 nt UTR 2 hits 521 1872  
-----1-----1-

1-----  
>ENSMUSG00000023804 hs-mir-25 521 528  
CAUUGCACUUGUCUCGGUCUGA&UAAAAGCUAAACUGCACCCGUCACCCAAAGCUCUGUGCAAUA  
.((((((((..((..((..(((&.....))))..))..))..)))))))). -16.30

>ENSMUSG00000023804 hs-mir-25 1872 1879  
CAUUGCACUUGUCUCGGUCUGA&CGUUAGUUUGCUCCAGCGUGUAUAAUAAUUUAUUGUGCAAUGU  
((((((((((((((((.....&.....))))))..))..))..)))))))). -16.50

mir-25 ENSRNOG00000017030 2000 nt UTR 2 hits 535 1854  
-----1-----1-

1-----  
>ENSRNOG00000017030 hs-mir-25 535 542  
CAUUGCACUUGUCUCGGUCUGA&AAAAGCGAAAGUGCAUCCCAUUGCCCAAAGCUCUGUGCAAUA  
.((((((((..((..((..((.....&.....))))..))..))..)))))))). -16.10

>ENSRNOG00000017030 hs-mir-25 1854 1861  
CAUUGCACUUGUCUCGGUCUGA&CUGCAUUAGUUUACUCCGCCGUGUAUAAUAAUUUAUUGUGCAAUGU  
((((((((((((((((.....&.....))))))..))..))..)))))))). -19.20

miRNA: mir-25

Human predicted target: ENSG00000065559  
Mouse predicted target: ENSMUSG00000033352  
Rat predicted target: ENSRNOG0000003834



Hs Gene description: DUAL SPECIFICITY MITOGEN-ACTIVATED PROTEIN KINASE KINASE 4 (EC 2.7.1.-) (MAP KINASE KINASE 4) (JNK ACTIVATING KINASE 1) (C-JUN N- TERMINAL KINASE KINASE 1) (JNKK) (SAPK/ERK KINASE 1) (SEK1).

[Source:SWISSPROT;Acc:P45985] NM\_003010

mir-25 ENSG00000065559 2000 nt UTR 2 hits 105 508

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

>ENSG00000065559 hs-mir-25 105 112  
CAUUGCACUUGUCUCGGUCUGA&UAUCACAGUGUUUUUAUUGCUCGCCAGACACCAUGUGCAAUA  
.(((((((((((((.....&.....)))))))).))))). -22.40

>ENSG00000065559 hs-mir-25 508 515  
CAUUGCACUUGUCUCGGUCUGA&UGGGAGACAAAGGAGAAUUUACUUUCUUCACCAAGUGCAAUA  
.(((((((((((((((.....&.....)))))))).))))). -22.59

mir-25 ENSMUSG00000033352 3369 nt UTR 2 hits 105 503

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

>ENSMUSG00000033352 hs-mir-25 105 112  
CAUUGCACUUGUCUCGGUCUGA&UAUCACAGUGUUUUUAUUGCUCGCCAGACACCAUGUGCAAUA  
.(((((((((((((.....&.....)))))))).))))). -22.40

>ENSMUSG00000033352 hs-mir-25 503 510  
CAUUGCACUUGUCUCGGUCUGA&UGGGAGACAGAGGAAGGAUUCUUUCUUCACCAAGUGCAAUA  
.(((((((((((((((.....&.....)))))))).))))). -24.20

mir-25 ENSRNOG00000003834 4378 nt UTR 2 hits 108 508

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

>ENSRNOG00000003834 hs-mir-25 108 115  
CAUUGCACUUGUCUCGGUCUGA&UAUCACAGUGUUUUUAUUGCUCGCCAGACACCAUGUGCAAUA  
.(((((((((((((.....&.....)))))))).))))). -22.40

>ENSRNOG00000003834 hs-mir-25 508 515  
CAUUGCACUUGUCUCGGUCUGA&UGGGAGACAAAGGAAGGAUUCUUUUUUCACCAAGUGCAAUA  
.(((((((((((((((.....&.....)))))))).))))). -21.60

miRNA: mir-25

Human predicted target: ENSG00000109670

Mouse predicted target: ENSMUSG00000028086

Rat predicted target: ENSRNOG00000010889

Hs Gene description: F-BOX PROTEIN FBW7 ISOFORM 2; ARCHIPELAGO, DROSOPHILA, HOMOLOG OF; F-BOX PROTEIN FBW7; F-BOX PROTEIN SEL-10; HOMOLOG OF C ELEGANS SEL-10. [Source:RefSeq;Acc:NM\_018315] NM\_018315

mir-25 ENSG00000109670 3622 nt UTR 2 hits 286 1596

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

>ENSG00000109670 hs-mir-25 286 293  
CAUUGCACUUGUCUCGGUCUGA&AGCUUUGCAAAAUGAGACUUUCUAAAUCAACCAGGUGCAAUU  
.(((((((((((((((.....&.....)))))))).))))). -20.06

>ENSG00000109670 hs-mir-25 1596 1603

CAUUGCACUUGUCUCGGUCUGA&GAUUCACUUAGAAAUUUUUUAUUUUCUUAUAACUUAAGUGCAAUA  
.((((((((((.....(((((&.....)))))).....)))))))). -16.57  
mir-25 ENSMUSG00000028086 2086 nt UTR 2 hits 327 1630

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

>ENSMUSG00000028086 hs-mir-25 327 334  
CAUUGCACUUGUCUCGGUCUGA&GCAGCUUGGCAAGACGACUCUAAAUCCAACCAGGUGCAAUU  
.((((((((((..((.....&.....))))..)))))))). -18.10

>ENSMUSG00000028086 hs-mir-25 1630 1637  
CAUUGCACUUGUCUCGGUCUGA&GAUUCACUUAGAAAUUUUUUAUUUUCUUAUAACUUAAGUGCAAUA  
.((((((((((.....(((((&.....)))))).....)))))))). -16.57  
mir-25 ENSRNOG00000010889 3663 nt UTR 2 hits 381 1638

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

>ENSRNOG00000010889 hs-mir-25 381 388  
CAUUGCACUUGUCUCGGUCUGA&GCAGCUUGGCGAAAGGAGACUCUAAACCCAACCAGGUGCAAUU  
.((((((((((..((.....&.....))))..)))))))). -19.90

>ENSRNOG00000010889 hs-mir-25 1638 1645  
CAUUGCACUUGUCUCGGUCUGA&GAUUCACUUAGAAAUUUUUUAUUUUCUUAUAACUUAAGUGCAAUA  
.((((((((((.....(((((&.....)))))).....)))))))). -16.57

miRNA: mir-25  
Human predicted target: ENSG00000110422  
Mouse predicted target: ENSMUSG00000027177  
Rat predicted target: ENSRNOG00000011358  
Hs Gene description: HOMEODOMAIN INTERACTING PROTEIN KINASE 3;  
HOMEODOMAIN-INTERACTING PROTEIN KINASE 3. [Source:RefSeq;Acc:NM\_005734]  
NM\_005734

mir-25 ENSG00000110422 2737 nt UTR 2 hits 114 1102  
----1-----1-----  
-----

>ENSG00000110422 hs-mir-25 114 121  
CAUUGCACUUGUCUCGGUCUGA&ACAAGAAAUAUUUUUGAAUCAUGUAGACUUGGGUGCAAUU  
.((((((((((.....(((((&.....)))))).....)))))))). -19.70

>ENSG00000110422 hs-mir-25 1102 1109  
CAUUGCACUUGUCUCGGUCUGA&UACUAUUGAAGCUUGAAAAGAUGUGAGUUCUUUGUGUGCAAUU  
.((((((((((.....(((((&.....))))..))))..)))))))). -17.40  
mir-25 ENSMUSG00000027177 2090 nt UTR 2 hits 125 1122

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

>ENSMUSG00000027177 hs-mir-25 125 132  
CAUUGCACUUGUCUCGGUCUGA&ACAAGAAAUAUUUUUGAAUCAUGUAGACUUGGGUGCAAUU  
.((((((((((.....(((((&.....)))))).....)))))))). -19.70

>ENSMUSG00000027177 hs-mir-25 1122 1129  
CAUUGCACUUGUCUCGGUCUGA&UACUGUUGAAGCUUGAAAAGAUGUGAGCUCUUUGUGUGCAAUU  
.((((((((((..((.....&.....))))..))))..)))))))). -17.10  
mir-25 ENSRNOG00000011358 2072 nt UTR 2 hits 128 1122

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

>ENSRNOG00000011358 hs-mir-25 128 135  
CAUUGCACUUGUCUCGGUCUGA&CACAAAGAAAUAUUUUUGAAUCAUGUAGACUUGGGUGCAAUU  
.((((((((((.....((((((.&.....))))))))))))). -19.70  
>ENSRNOG00000011358 hs-mir-25 1122 1129  
CAUUGCACUUGUCUCGGUCUGA&UACUAUUGAAGCUUGAAAAGAUGUGAGUUCUUUGUGUGCAAUU  
.((((((((.....((((((.&.....))))).)))).....))))). -17.40

miRNA: mir-25  
Human predicted target: ENSG00000110848  
Mouse predicted target: ENSMUSG00000030156  
Rat predicted target: ENSRNOG00000007909  
Hs Gene description: EARLY ACTIVATION ANTIGEN CD69 (EARLY T-CELL  
ACTIVATION ANTIGEN P60) (GP32/28) (LEU-23) (MLR-3) (EA1) (BL-AC/P26)  
(ACTIVATION INDUCER MOLECULE) (AIM). [Source:SWISSPROT;Acc:Q07108]  
NM\_001781

mir-25 ENSG00000110848 2991 nt UTR 3 hits 758 870 907  
-----1--1-1-----

>ENSG00000110848 hs-mir-25 758 765  
CAUUGCACUUGUCUCGGUCUGA&GAAUAUUUGCAAGACAUAGAAUAGUGUUGGAAAUGUGCAAUA  
.((((((((.....((((((.&.....))))).)))).....))))). -17.27  
>ENSG00000110848 hs-mir-25 870 877  
CAUUGCACUUGUCUCGGUCUGA&AUAGGUUUGUGACUUUCCUAAAUCAAUUCUAUUACGUGCAAUA  
.((((((((.....((((((.&.....))))).)))).....))))). -14.85  
>ENSG00000110848 hs-mir-25 907 914  
CAUUGCACUUGUCUCGGUCUGA&GCAAUACUUCAAUACUUCAUUUAAAUAUUUUUAUGUGCAAUA  
.((((((((.....&.....))))))))). -13.50  
mir-25 ENSMUSG00000030156 2937 nt UTR 2 hits 714 839

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

>ENSMUSG00000030156 hs-mir-25 714 721  
CAUUGCACUUGUCUCGGUCUGA&UUUGUAGAGCAGAUUUCAAAGUGCUGGAAAGAAAAGUGCAAUA  
.((((((((((.....((((((.&.....))))).)))).....))))). -20.20  
>ENSMUSG00000030156 hs-mir-25 839 846  
CAUUGCACUUGUCUCGGUCUGA&GUCUUUCCCAGUCCUUUGUCCAAAUAUUUCCCAUGUGCAAUA  
.((((((((((.....((((((.&.....))))).)))).....))))). -16.55  
mir-25 ENSRNOG00000007909 2000 nt UTR 2 hits 723 850

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

>ENSRNOG00000007909 hs-mir-25 723 730  
CAUUGCACUUGUCUCGGUCUGA&UUUGUAGAGCAGAUUUCAAAGUGUUACAAAGAAAAGUGCAAUA  
.((((((((((.....((((((.&.....))))).)))).....))))). -20.56  
>ENSRNOG00000007909 hs-mir-25 850 857  
CAUUGCACUUGUCUCGGUCUGA&GUCUUUUGCAGUCCUUUAUCCAAAGUAUUUCCCAUGUGCAAUA  
.((((((((((.....((((((.&.....))))).)))).....))))). -16.45

miRNA: mir-25

Human predicted target: ENSG00000128641

Mouse predicted target: ENSMUSG00000018417

Rat predicted target: ENSRNOG00000015227

Hs Gene description: MYOSIN IB (MYOSIN I ALPHA) (MMI-ALPHA) (MMIA) (MYH-1C) (FRAGMENT). [Source:SWISSPROT;Acc:O43795]

mir-25 ENSG00000128641 3426 nt UTR 2 hits 45 932

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

>ENSG00000128641 hs-mir-25 45 52  
CAUUGCACUUGUCUCGGUCUGA&CCUCUCUACUUUCAUGGACUUGUCCUUUGUAAUAGUGCAAUU  
.((((((((.....(((((&.....)))))).....)))))))). -16.05

>ENSG00000128641 hs-mir-25 932 939  
CAUUGCACUUGUCUCGGUCUGA&AGCCAUUCAGAUAGCAGUAAAACAUCUGUAUGAUGUGCAAUA  
.((((((((.....(((((&.....)))))).....)))))))). -17.96

mir-25 ENSMUSG00000018417 2758 nt UTR 3 hits 45 477 1458

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

>ENSMUSG00000018417 hs-mir-25 45 52  
CAUUGCACUUGUCUCGGUCUGA&CCUCUCUGCUCUCACGGACUUGUUCCUCGUAACAGUGCAAUU  
.((((((((.....(((((&.....)))))).....)))))))). -20.90

>ENSMUSG00000018417 hs-mir-25 477 484  
CAUUGCACUUGUCUCGGUCUGA&GAGAGCCGUUCAGACUGGCAGAUCUUCUCUUUGAUGUGCAAUA  
.((((((((.....(((((&.....)))))).....)))))))). -23.44

>ENSMUSG00000018417 hs-mir-25 1458 1465  
CAUUGCACUUGUCUCGGUCUGA&GAGAGCCGUUCAGACUGGCAGAUCUUCUCUUUGAUGUGCAAUA  
.((((((((.....(((((&.....)))))).....)))))))). -23.44

mir-25 ENSRNOG00000015227 2061 nt UTR 2 hits 48 1142

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

>ENSRNOG00000015227 hs-mir-25 48 55  
CAUUGCACUUGUCUCGGUCUGA&CCUCUCUGUUCUCACGGACUUGUUCCUCGUAACAGUGCAAUU  
.((((((((.....(((((&.....)))))).....)))))))). -20.90

>ENSRNOG00000015227 hs-mir-25 1142 1149  
CAUUGCACUUGUCUCGGUCUGA&GAGAGCCAUUCAGACUGGCAGAUCUUCUCUUUGAUGUGCAAUA  
.((((((((.....(((((&.....)))))).....)))))))). -23.44

miRNA: mir-25

Human predicted target: ENSG00000155744

Mouse predicted target: ENSMUSG00000038174

Rat predicted target: ENSRNOG00000011327

Rat predicted target: ENSRNOG00000012078

Hs Gene description: NM\_173822

mir-25 ENSG00000155744 4800 nt UTR 2 hits 275 506

```

-----1-----1-----
-----
>ENSG00000155744 hs-mir-25      275      282
CAUUGCACUUGUCUCGGUCUGA&UGCCUUUCCAUGCCUUCUUCUCCUUGGGUGAUGUGCAAUC
.(((((((((.(((.((...(&.....)).)).)).)).)).)).)). -17.20
>ENSG00000155744 hs-mir-25      506      513
CAUUGCACUUGUCUCGGUCUGA&GAGAUUCUGCUAUGACUUUGGACUUCUCUGAGUCUGUGCAAUC
.(((((((((.(((.(((((((.(&.....)).)).)).)).)).)).)).)). -21.10
mir-25      ENSMUSG00000038174  2575 nt UTR      2 hits 256 485
-----1-----1-----
-----
>ENSMUSG00000038174 hs-mir-25      256      263
CAUUGCACUUGUCUCGGUCUGA&UGCCUUUCCAUGCCUUCUUCUCCUUGGGUGAUGUGCAAUC
.(((((((((.(((.((...(&.....)).)).)).)).)).)).)). -17.20
>ENSMUSG00000038174 hs-mir-25      485      492
CAUUGCACUUGUCUCGGUCUGA&GAGAUUCUGCUAUGACUUUGGGCUUCUCUGAGCCUGUGCAAUU
.(((((((((.(((.(((((((.(&.....)).)).)).)).)).)).)). -20.10
mir-25      ENSRNOG00000011327  2572 nt UTR      2 hits 257 489
-----1-----1-----
-----
>ENSRNOG00000011327 hs-mir-25      257      264
CAUUGCACUUGUCUCGGUCUGA&UUUGCCUUUCCCUGCCUUCUUCUUCUUGGGUGAUGUGCAAUC
.(((((((((.(((.((...(&.....)).)).)).)).)).)).)). -17.30
>ENSRNOG00000011327 hs-mir-25      489      496
CAUUGCACUUGUCUCGGUCUGA&AGAUUCUGCUAUGACUUUGGGCUUCUCUGAGUCUGUGCAAUU
.(((((((((.(((.(((((((.(&.....)).)).)).)).)).)).)). -20.10
mir-25      ENSRNOG00000012078  2572 nt UTR      2 hits 257 489
-----1-----1-----
-----
>ENSRNOG00000012078 hs-mir-25      257      264
CAUUGCACUUGUCUCGGUCUGA&UUUGCCUUUCCCUGCCUUCUUCUUCUUGGGUGAUGUGCAAUC
.(((((((((.(((.((...(&.....)).)).)).)).)).)).)). -17.30
>ENSRNOG00000012078 hs-mir-25      489      496
CAUUGCACUUGUCUCGGUCUGA&AGAUUCUGCUAUGACUUUGGGCUUCUCUGAGUCUGUGCAAUU
.(((((((((.(((.(((((((.(&.....)).)).)).)).)).)).)). -20.10

miRNA: mir-25
Human predicted target: ENSG00000156052
Mouse predicted target: ENSMUSG00000024639
Rat predicted target: ENSRNOG00000014183
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
-----1-----1-----
-----1-----
>ENSG00000156052 hs-mir-25      1556      1563

```

CAUUGCACUUGUCUCGGUCUGA&UGAACCUACCAGGAGAAAUGUUUGGAAUUCUAUAUGUGCAAUU  
.((((((((((.....((.&.....)).....)).....)).....)).....)).....). -15.80  
>ENSG00000156052 hs-mir-25 1940 1947

CAUUGCACUUGUCUCGGUCUGA&CCUGUAAUUUAACAAACAGACUGCCUGUAGGUUAUGUGCAAUU  
.((((((((((.....((.&.....)).....)).....)).....)).....)).....). -24.60  
mir-25 ENSMUSG00000024639 2342 nt UTR 2 hits 1605 1940

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

>ENSMUSG00000024639 hs-mir-25 1605 1612  
CAUUGCACUUGUCUCGGUCUGA&CGAUCAUACUAGGAGGAUGUUUGGAAUUCUCCAUGUGCAAUU  
.((((((((((.....((.&.....)).....)).....)).....)).....)).....). -17.06  
>ENSMUSG00000024639 hs-mir-25 1940 1947

CAUUGCACUUGUCUCGGUCUGA&CCUGUAAUUUAAUUAACAGACUGCCUGUAGGUUAUGUGCAAUU  
.((((((((((.....((.&.....)).....)).....)).....)).....)).....). -24.60  
mir-25 ENSRNOG00000014183 2317 nt UTR 2 hits 1570 1906

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

>ENSRNOG00000014183 hs-mir-25 1570 1577  
CAUUGCACUUGUCUCGGUCUGA&CGAUCAUACUAGGAGAGAUGUUUGGAAUUCUCCAUGUGCAAUU  
.((((((((((.....((.&.....)).....)).....)).....)).....)).....). -18.19  
>ENSRNOG00000014183 hs-mir-25 1906 1913

CAUUGCACUUGUCUCGGUCUGA&CCUGUAAUUUAAUUAACAGACUGCCUGUAGGUACAGUGCAAUU  
.((((((((((.....((.&.....)).....)).....)).....)).....)).....). -24.60

miRNA: mir-25

Human predicted target: ENSG00000157152  
Mouse predicted target: ENSMUSG00000009394  
Rat predicted target: ENSRNOG00000008157  
Hs Gene description: SYNAPSIN II. [Source:SWISSPROT;Acc:Q92777]  
mir-25 ENSG00000157152 2574 nt UTR 2 hits 798 2261

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

>ENSG00000157152 hs-mir-25 798 805  
CAUUGCACUUGUCUCGGUCUGA&UACUAUGAGAUUUUUAAAAAUGGGGCCGUGAUGUGCAAUA  
.((((((((((.....((.&.....)).....)).....)).....)).....)).....). -23.30  
>ENSG00000157152 hs-mir-25 2261 2268

CAUUGCACUUGUCUCGGUCUGA&AGUACCUCUCUUUUGUGACUCUUGUACAGCUUAAUGUGCAAUA  
.((((((((((.....((.&.....)).....)).....)).....)).....)).....). -16.50  
mir-25 ENSMUSG00000009394 2752 nt UTR 2 hits 780 2208

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

>ENSMUSG00000009394 hs-mir-25 780 787  
CAUUGCACUUGUCUCGGUCUGA&UACAAGAUAAAAAAAAAAAAUAGGGGCCGCGAUGUGCAAUA  
.((((((((((.....((.&.....)).....)).....)).....)).....)).....). -23.00  
>ENSMUSG00000009394 hs-mir-25 2208 2215

CAUUGCACUUGUCUCGGUCUGA&CAUCUCCUUUUGUGAUUCUCUUGUACAGCUCAAUGUGCAAUA  
.((((((((((.....((.&.....)).....)).....)).....)).....)).....). -17.00

mir-25 ENSRNOG00000008157 2750 nt UTR 2 hits 767 2144  
-----1-----  
-----1-----  
>ENSRNOG00000008157 hs-mir-25 767 774  
CAUUGCACUUGUCUCGGUCUGA&GCUAAAGGUUAAAAAAAAAUCAGGGGCCGCUGAUGUGCAAUA  
.(((((((((((((.....&.....)))))))).))))). -23.70  
>ENSRNOG00000008157 hs-mir-25 2144 2151  
CAUUGCACUUGUCUCGGUCUGA&CAUCUCCCUUUUGUGAUUCUCUUGUACAGCUCAAUGUGCAAUA  
.(((((((((((((.....&.....)))))))).))))). -17.00

miRNA: mir-25

Human predicted target: ENSG00000159388  
Mouse predicted target: ENSMUSG00000041551  
Rat predicted target: ENSRNOG00000003300  
Hs Gene description: BTG2 PROTEIN (NGF-INDUCIBLE ANTI-PROLIFERATIVE  
PROTEIN PC3). [Source:SWISSPROT;Acc:P78543] NM\_006763  
mir-25 ENSG00000159388 4164 nt UTR 2 hits 1059 1370

-----1-----1-----  
-----  
>ENSG00000159388 hs-mir-25 1059 1066  
CAUUGCACUUGUCUCGGUCUGA&UACCGUAUUUUCUAGGACAAGAGUUCUCAGUCACUGUGCAAUA  
.(((((((((((((((.....&.....)))))))).))))). -18.56  
>ENSG00000159388 hs-mir-25 1370 1377  
CAUUGCACUUGUCUCGGUCUGA&UCUGUCUCAGUACAAUCCAAAUUUGUCGUAGACUUGUGCAAUA  
.(((((((((((((.....&.....)))))))).))))). -22.21  
mir-25 ENSMUSG00000041551 4042 nt UTR 2 hits 1039 1340

-----1-----1-----  
-----  
>ENSMUSG00000041551 hs-mir-25 1039 1046  
CAUUGCACUUGUCUCGGUCUGA&GGCCCUAUUUCUAGGACAAGCGUUCUCAGUCACUGUGCAAUA  
.(((((((((((((((.....&.....)))))))).))))). -18.16  
>ENSMUSG00000041551 hs-mir-25 1340 1347  
CAUUGCACUUGUCUCGGUCUGA&CUCUCUUAGUAAAUCCAAUUUUAUUUGUAGAUGUGUGCAAUA  
.(((((((((((((.....&.....)))))))).))))). -17.60  
mir-25 ENSRNOG00000003300 3981 nt UTR 2 hits 1019 1304

-----1-----1-----  
-----  
>ENSRNOG00000003300 hs-mir-25 1019 1026  
CAUUGCACUUGUCUCGGUCUGA&GGCCCAUUUCCUAGGACAAGAGUUCUCAAUCACUGUGCAAUA  
.(((((((((((((((.....&.....)))))))).))))). -18.90  
>ENSRNOG00000003300 hs-mir-25 1304 1311  
CAUUGCACUUGUCUCGGUCUGA&CCCUCAGUAAAUCCAAUUUUAUUUGUAGAUGUGUGCAAUA  
.(((((((((((((.....&.....)))))))).))))). -18.07

miRNA: mir-25

Human predicted target: ENSG00000168090

Mouse predicted target: ENSMUSG00000019494

Rat predicted target: ENSRNOG00000001346

Hs Gene description: COP9 SUBUNIT 6 (MOV34 HOMOLOG, 34 KD).

[Source:RefSeq;Acc:NM\_006833] NM\_006833

mir-25 ENSG00000168090 2118 nt UTR 1 hits 1796

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

>ENSG00000168090 hs-mir-25 1796 1803  
CAUUGCACUUGUCUCGGUCUGA&CGCAGUGUUGGGCCGGCACUGUCAGACCGAGACAAGUGCAAUGC  
((((((((((((((((((((((((&.....)))))))))))))))))))). -45.10

mir-25 ENSMUSG00000019494 2107 nt UTR 1 hits 1470

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

>ENSMUSG00000019494 hs-mir-25 1470 1477  
CAUUGCACUUGUCUCGGUCUGA&UGCAGUGUUGGGCCGGCACUGUCAGACCGAGACAAGUGCAAUGC  
((((((((((((((((((((((((&.....)))))))))))))))))))). -45.10

mir-25 ENSRNOG00000001346 2091 nt UTR 1 hits 1261

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

>ENSRNOG00000001346 hs-mir-25 1261 1268  
CAUUGCACUUGUCUCGGUCUGA&UGCAGUGUUGGGCCGGCACUGUCAGACCGAGACAAGUGCAAUGC  
((((((((((((((((((((((((&.....)))))))))))))))))))). -45.10

miRNA: mir-25

Human predicted target: ENSG00000173517

Mouse predicted target: ENSMUSG00000043561

Rat predicted target: ENSRNOG00000016824

mir-25 ENSG00000173517 7992 nt UTR 2 hits 850 1308

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

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

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

mir-25 ENSMUSG00000043561 3319 nt UTR 2 hits 778 1262

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

>ENSMUSG00000043561 hs-mir-25 778 785  
CAUUGCACUUGUCUCGGUCUGA&AGUUGGCAGGAUAUGAAGAAUAAUGUCCUUAUGUGUGCAAUU



.(((((((...((((((...&.....))))))....))))). -16.21  
>ENSMUSG00000043561 hs-mir-25 1262 1269  
CAUUGCACUUGUCUCGGUCUGA&GUUCCCCGUGGAGCCCGGGCUCUCCCGUGAAUUAUGUGCAAUU  
.(((((((...((((((...&.....))))))....))))). -19.80  
mir-25 ENSRNOG00000016824 2000 nt UTR 2 hits 816 1284  
-----1-----1-----  
-----  
>ENSRNOG00000016824 hs-mir-25 816 823  
CAUUGCACUUGUCUCGGUCUGA&AUAGUGGGCAGGAUAUGAAGAAAUAUUGUCCUUAUGUGCAAUU  
.(((((((...((((((...&.....))))))....))))). -17.10  
>ENSRNOG00000016824 hs-mir-25 1284 1291  
CAUUGCACUUGUCUCGGUCUGA&GUUCCCAUGAAGCCUGUGCUCUCCCGUGAAUUAUGUGCAAUU  
.(((((((...((((((...&.....))))))....))))). -18.30

miRNA: mir-26a

Human predicted target: ENSG00000073169

Mouse predicted target: ENSMUSG00000035757

Rat predicted target: ENSRNOG00000005579

Hs Gene description: DJ402G11.5 (NOVEL PROTEIN SIMILAR TO YEAST AND BACTERIAL PREDICTED PROTEINS). [Source:SPTREMBL;Acc:Q9UGX5]

mir-26a ENSG00000073169 2000 nt UTR 2 hits 810 1636  
-----1-----1-----  
-----

>ENSG00000073169 hs-mir-26a 810 817  
UUCAAGUAAUCCAGGAUAGGCU&GGUGGGCCUCACCUUUGAAGAGAAAGUGGGAGUAGUACUUGAAG  
(((((((...((((((...&.....))))))....))))). -23.43  
>ENSG00000073169 hs-mir-26a 1636 1643  
UUCAAGUAAUCCAGGAUAGGCU&CAUCCGGGGCGUUGGGGGCAAACACCUCGGGCAGGUACUUGAGA  
(((((((...((((((...&.....))))))....))))). -20.40  
mir-26a ENSMUSG00000035757 2363 nt UTR 2 hits 631 1449  
-----1-----1-----  
-----

>ENSMUSG00000035757 hs-mir-26a 631 638  
UUCAAGUAAUCCAGGAUAGGCU&AGAAGGGCUUACCUUUGAAGAGGAAGUGGGAGUAGUACUUGAAG  
(((((((...((((((...&.....))))))....))))). -22.83  
>ENSMUSG00000035757 hs-mir-26a 1449 1456  
UUCAAGUAAUCCAGGAUAGGCU&CAUCUGGGGCAUUCGGGGCAAACACCUCAGGCAGGUACUUGAGA  
(((((((...((((((...&.....))))))....))))). -18.30  
mir-26a ENSRNOG00000005579 2000 nt UTR 2 hits 595 1603  
-----1-----1-----  
-----

>ENSRNOG00000005579 hs-mir-26a 595 602  
UUCAAGUAAUCCAGGAUAGGCU&AGGAGGGCUUACCUUUGAAGAGGAAGUGGGAGUAGUACUUGAAG  
(((((((...((((((...&.....))))))....))))). -22.83  
>ENSRNOG00000005579 hs-mir-26a 1603 1610  
UUCAAGUAAUCCAGGAUAGGCU&CAUCUGGGGCAUUGGGGCAAACACCUCAGGCAGGUACUUGAGG  
(((((((...((((((...&.....))))))....))))). -18.30

miRNA: mir-26a

Human predicted target: ENSG00000080603

Mouse predicted target: ENSMUSG00000042397

Rat predicted target: ENSRNOG00000018637

Hs Gene description: SNF2-RELATED CBP ACTIVATOR PROTEIN.

[Source:RefSeq;Acc:NM\_006662] NM\_006662

mir-26a ENSG00000080603 2000 nt UTR 2 hits 74 260

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

>ENSG00000080603 hs-mir-26a 74 81  
UUCAAGUAAUCCAGGAUAGGCU&CUCCUCCAUGACCAGGCCUGACUCUGUUAACCACUACUUGAAG  
((((((((((...(((.(((((&.....)))))))).)))).)))). -20.70

>ENSG00000080603 hs-mir-26a 260 267  
UUCAAGUAAUCCAGGAUAGGCU&AGGGUGGCAAGAUAGUCUCUGUCCCCACCCCUUGUACUUGAU  
((((((((((...(((.(((((&.....)))))))).)))).)))). -17.49

mir-26a ENSMUSG00000042397 2000 nt UTR 2 hits 73 254

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

>ENSMUSG00000042397 hs-mir-26a 73 80  
UUCAAGUAAUCCAGGAUAGGCU&GCUUCCCUUGCCCAGGCCUGACUCUGAUAAACCACUACUUGAAG  
((((((((((...(((.(((((&.....)))))))).)))).)))). -21.40

>ENSMUSG00000042397 hs-mir-26a 254 261  
UUCAAGUAAUCCAGGAUAGGCU&AGGGUGGCAAGAUAGUUUCUGUCCCCACCCCUUGUACUUGAU  
((((((((((...(((.(((((&.....)))))))).)))).)))). -17.59

mir-26a ENSRNOG00000018637 2000 nt UTR 2 hits 76 262

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

>ENSRNOG00000018637 hs-mir-26a 76 83  
UUCAAGUAAUCCAGGAUAGGCU&GCUUCCCAUGCCCAGGCCUGACUCUGUUAACCACUACUUGAAG  
((((((((((...(((.(((((&.....)))))))).)))).)))). -20.70

>ENSRNOG00000018637 hs-mir-26a 262 269  
UUCAAGUAAUCCAGGAUAGGCU&AGGGUGGCAAGAUAGUUUCUGUCCCCACCCCUUGUACUUGAU  
((((((((((...(((.(((((&.....)))))))).)))).)))). -17.59

miRNA: mir-26a

Human predicted target: ENSG00000119812

Mouse predicted target: ENSMUSG00000002017

Rat predicted target: ENSRNOG00000004190

mir-26a ENSG00000119812 3114 nt UTR 2 hits 312 760

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

>ENSG00000119812 hs-mir-26a 312 319  
UUCAAGUAAUCCAGGAUAGGCU&CCACAGUCAGAACAUGCAAACUUUUUGAAGAAAUUACUUGAAU  
((((((((((...(((.(((((&.....)))))))).)))).)))). -15.80

>ENSG00000119812 hs-mir-26a 760 767

UUCAAGUAAUCCAGGAUAGGCU&CCAUCCAAAACAAAUCCUCCUUAACCUUAUUUUUACUUGAAA  
((((((((((...(((...(((...&.....)))))))).))))). -17.40  
mir-26a ENSMUSG00000002017 3111 nt UTR 2 hits 311 772

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

>ENSMUSG00000002017 hs-mir-26a 311 318  
UUCAAGUAAUCCAGGAUAGGCU&AUCCAGUUGGAACAUAUCAUGCUUUUUUGAAGAAAUAUACUUGAAU  
((((((((((...(((...(((...&.....)))))))).))))). -18.20

>ENSMUSG00000002017 hs-mir-26a 772 779  
UUCAAGUAAUCCAGGAUAGGCU&AUCCGAGACAAACGUUCCUCCUUCACCCUUGUUUUUACUUGAAA  
((((((((((...(((...(((...&.....)))))))).))))). -18.30

mir-26a ENSRNOG00000004190 2000 nt UTR 2 hits 309 751

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

>ENSRNOG00000004190 hs-mir-26a 309 316  
UUCAAGUAAUCCAGGAUAGGCU&AUCCAGUUGAAACAUAUCAUGCUUUUUUGAAGAAAUAUACUUGAAU  
((((((((((...(((...(((...&.....)))))))).))))). -18.20

>ENSRNOG00000004190 hs-mir-26a 751 758  
UUCAAGUAAUCCAGGAUAGGCU&AUCCAAGACAAAAGUCCUCCUUAACCUUGUUUUUACUUGAAA  
((((((((((...(((...(((...&.....)))))))).))))). -18.56

miRNA: mir-26a

Human predicted target: ENSG00000121255  
Mouse predicted target: ENSMUSG00000041245  
Rat predicted target: ENSRNOG00000002634

mir-26a ENSG00000121255 3902 nt UTR 2 hits 244 1220

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

>ENSG00000121255 hs-mir-26a 244 251  
UUCAAGUAAUCCAGGAUAGGCU&AAAUGUUUUUUCACUUCACAAUUCUAUCCUUCUUUGAUACUUGAU  
((((((((((...(((...(((...&.....)))))))).))))). -21.00

>ENSG00000121255 hs-mir-26a 1220 1227  
UUCAAGUAAUCCAGGAUAGGCU&AGCUACACCUCAAUCCAUCUUCUGAAGUGAAAUAUACUUGAC  
((((((((((...(((...(((...&.....)))))))).))))). -14.63

mir-26a ENSMUSG00000041245 2000 nt UTR 2 hits 234 913

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

>ENSMUSG00000041245 hs-mir-26a 234 241  
UUCAAGUAAUCCAGGAUAGGCU&AAAUGUUUUUUCACUUCACUCCUUAUCCUUCUUUGAUACUUGAU  
((((((((((...(((...(((...&.....)))))))).))))). -23.10

>ENSMUSG00000041245 hs-mir-26a 913 920  
UUCAAGUAAUCCAGGAUAGGCU&ACACUUCUGUUAUCCAUCUUCUAAAGUGAAAUGUACUUGAC  
((((((((((...(((...(((...&.....)))))))).))))). -14.65

mir-26a ENSRNOG00000002634 2000 nt UTR 2 hits 234 920

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

>ENSRNOG00000002634 hs-mir-26a 234 241  
UUCAAGUAAUCCAGGAUAGGCU&AAAUGUUUUUUCACUUCAAAUCCUAUCCUCUUUGAUACUUGAU  
.(((((((((((((...&.....)))))))).))))). -23.10  
>ENSRNOG00000002634 hs-mir-26a 920 927  
UUCAAGUAAUCCAGGAUAGGCU&ACACUUCUGUUAAUCCAUUCUUCUAAAGCGAAAUGUACUUGAC  
.(((((((((((((...&.....)))))))).))))). -14.65

miRNA: mir-26a

Human predicted target: ENSG00000134294

Mouse predicted target: ENSMUSG00000022462

Rat predicted target: ENSRNOG00000006305

Hs Gene description: SOLUTE CARRIER FAMILY 38, MEMBER 2; AMINO ACID  
TRANSPORTER 2. [Source:RefSeq;Acc:NM\_018976] NM\_018976

mir-26a ENSG00000134294 2000 nt UTR 2 hits 339 1095

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

>ENSG00000134294 hs-mir-26a 339 346  
UUCAAGUAAUCCAGGAUAGGCU&CUGUGUCAUUGUUUAACUUGGAUUAUUUAUGAUUUUACUUGAAU  
(((((((((((((((...&.....)))))))).))))). -22.30

>ENSG00000134294 hs-mir-26a 1095 1102  
UUCAAGUAAUCCAGGAUAGGCU&CUUUUUCAAAUGCUCACCUACUGGAAGUGUGAAUUACUUGAC  
.(((((((((((((((...&.....)))))))).))))). -19.80

mir-26a ENSMUSG00000022462 4733 nt UTR 2 hits 360 1098

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

>ENSMUSG00000022462 hs-mir-26a 360 367  
UUCAAGUAAUCCAGGAUAGGCU&CUGUCUCAUUGUUUAACUUGGAUUAUUUAUGAUUUUACUUGAAU  
(((((((((((((((...&.....)))))))).))))). -22.30

>ENSMUSG00000022462 hs-mir-26a 1098 1105  
UUCAAGUAAUCCAGGAUAGGCU&GAACUUCCAAAGGCUCAUCUACUGGAAGCGUGGUUUACUUGAC  
.(((((((((((((((...&.....)))))))).))))). -23.00

mir-26a ENSRNOG00000006305 4712 nt UTR 2 hits 335 1070

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

>ENSRNOG00000006305 hs-mir-26a 335 342  
UUCAAGUAAUCCAGGAUAGGCU&CUGUCUCAUUGUUUAACUUGGAUUAUUUAUGAUUUUACUUGAAU  
(((((((((((((((...&.....)))))))).))))). -22.30

>ENSRNOG00000006305 hs-mir-26a 1070 1077  
UUCAAGUAAUCCAGGAUAGGCU&GAACUUUCAACGCUCGCCUACUGGAAGCGUGAUUUACUUGAC  
.(((((((((((((((...&.....)))))))).))))). -24.60

miRNA: mir-26a

Human predicted target: ENSG00000137266

Mouse predicted target: ENSMUSG00000038267

Rat predicted target: ENSRNOG00000017210  
mir-26a ENSG00000137266 2000 nt UTR 2 hits 650 854

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

>ENSG00000137266 hs-mir-26a 650 657  
UUCAAGUAAUCCAGGAUAGGCU&ACCAGCUUCAUCUUCCUUCAGGAUCAUCCUUUUGUACUUGAU  
.((((((((.....(((((((((&.....)))))).....)))))).....))))). -19.06  
>ENSG00000137266 hs-mir-26a 854 861  
UUCAAGUAAUCCAGGAUAGGCU&AGUCCUCUGGCACAGGCAGCUCUUGUGCCGGCACUACUUGAAA  
((((((((.....(((((((((&.....)))))).....)))))).....))))). -19.40  
mir-26a ENSMUSG00000038267 5785 nt UTR 2 hits 699 919

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

>ENSMUSG00000038267 hs-mir-26a 699 706  
UUCAAGUAAUCCAGGAUAGGCU&GCUUAAUCUUUCUUCUUCAGGAUCAUCCUUUUGUACUUGAU  
.((((((((((((((((.....)))))).....)))))).....))))). -18.60  
>ENSMUSG00000038267 hs-mir-26a 919 926  
UUCAAGUAAUCCAGGAUAGGCU&GGUCCUCUUCUCCAGCCAGCCUGUUGCCAGUACUACUUGAAA  
((((((((.....(((((((((&.....)))))).....)))))).....))))). -19.82  
mir-26a ENSRNOG00000017210 2913 nt UTR 2 hits 705 919

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

>ENSRNOG00000017210 hs-mir-26a 705 712  
UUCAAGUAAUCCAGGAUAGGCU&GCUUAGUCUUUCUUCUUCAGGAUCGUCCUUUUGUACUUGAU  
.((((((((((((((((.....)))))).....)))))).....))))). -20.20  
>ENSRNOG00000017210 hs-mir-26a 919 926  
UUCAAGUAAUCCAGGAUAGGCU&UGUCCUCUUCUCCAGCCAGCCUGUUGCCAGUACUACUUGAAA  
((((((((.....(((((((((&.....)))))).....)))))).....))))). -19.82

miRNA: mir-26a  
Human predicted target: ENSG00000138386  
Mouse predicted target: ENSMUSG00000002881  
Rat predicted target: ENSRNOG00000012959  
Hs Gene description: NGFI-A BINDING PROTEIN 1 (EGR-1 BINDING PROTEIN 1)  
(TRANSCRIPTIONAL REGULATORY PROTEIN P54). [Source:SWISSPROT;Acc:Q13506]  
NM\_005966

mir-26a ENSG00000138386 4435 nt UTR 2 hits 386 654

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

>ENSG00000138386 hs-mir-26a 386 393  
UUCAAGUAAUCCAGGAUAGGCU&CUGUUUGGUCUAAUAGAUGUGGAUACAGUUUAAUUUUACUUGAAA  
((((((((((((((((.....)))))).....)))))).....))))). -19.10  
>ENSG00000138386 hs-mir-26a 654 661  
UUCAAGUAAUCCAGGAUAGGCU&ACAUCUGGUUAUCA AUGCACGUUUACACAAUAAUACUUGAGU

((((((((((..((((((.....&.....)))))).....)))))))). -14.69  
mir-26a ENSMUSG0000002881 3922 nt UTR 2 hits 363 539

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

>ENSMUSG0000002881 hs-mir-26a 363 370  
UUCAAGUAAUCCAGGAUAGGCU&CCUUGUGGUCUAAUAGAUGUGGAUACCAUUCAUUUUACUUGAAA  
((((((((((..((((((.....&.....)))))).....)))))))). -19.10

>ENSMUSG0000002881 hs-mir-26a 539 546  
UUCAAGUAAUCCAGGAUAGGCU&CACAAUUUACACCAAGGAGAAGACUGUGUGUUUAAUACUUGAU  
..((((((((((..((((((.....&.....)))))).....)))))))). -14.30

mir-26a ENSRNOG00000012959 2000 nt UTR 2 hits 363 536  
-----1-----1-----  
-----

>ENSRNOG00000012959 hs-mir-26a 363 370  
UUCAAGUAAUCCAGGAUAGGCU&CCUUGCAGUCUAAUAGACGUGGAUCCCACUUAUUUACUUGAAA  
((((((((((..((((((.....&.....)))))).....)))))))). -20.50

>ENSRNOG00000012959 hs-mir-26a 536 543  
UUCAAGUAAUCCAGGAUAGGCU&AAAGUUUACACCAAGGAGAAGACCCAUGUGCUUGCUACUUGAU  
..((((((((((..((((((.....&.....)))))).....)))))))). -16.00

miRNA: mir-26a

Human predicted target: ENSG00000139946  
Mouse predicted target: ENSMUSG00000021846  
Rat predicted target: ENSRNOG00000012363  
Hs Gene description: PELLINO (DROSOPHILA) HOMOLOG 2.  
[Source:RefSeq;Acc:NM\_021255] NM\_021255

mir-26a ENSG00000139946 6136 nt UTR 2 hits 442 1451  
-----1-----1-----  
-----

>ENSG00000139946 hs-mir-26a 442 449  
UUCAAGUAAUCCAGGAUAGGCU&UAGGUGUUACGCGAAGGGCGCACAGUGUCUAGAAUACUUGAU  
..((((((((((..((((((.....&.....)))))).....)))))))). -16.40

>ENSG00000139946 hs-mir-26a 1451 1458  
UUCAAGUAAUCCAGGAUAGGCU&UACGUAAUUUAUAUGAUUCUAAUGUACUUAUACCAUACUUGAAU  
((((((((((..((((((.....&.....)))))).....)))))))). -16.60

mir-26a ENSMUSG00000021846 2240 nt UTR 2 hits 431 1530  
-----1-----1-----  
-----

>ENSMUSG00000021846 hs-mir-26a 431 438  
UUCAAGUAAUCCAGGAUAGGCU&GUGCCACACAUCCUAUGAUGUUCAGUGGCUGUGAAUACUUGAC  
..((((((((((..((((((.....&.....)))))).....)))))))). -18.29

>ENSMUSG00000021846 hs-mir-26a 1530 1537  
UUCAAGUAAUCCAGGAUAGGCU&AAAUAUAGAUAAUUUAUAUGAUUAUGACAUUACCAUACUUGAAU  
((((((((((..((((((.....&.....)))))).....)))))))). -16.00

mir-26a ENSRNOG00000012363 2175 nt UTR 2 hits 367 1442  
-----1-----1-----  
-----  
>ENSRNOG00000012363 hs-mir-26a 367 374  
UUCAAGUAAUCCAGGAUAGGCU&GAGUCACACAUCUGGUGAUGUUCAGUGGUUGGGAAUACUUGAC  
.(((((((((((((.....)))))))).))))). -18.40  
>ENSRNOG00000012363 hs-mir-26a 1442 1449  
UUCAAGUAAUCCAGGAUAGGCU&AAAUAAUAAUUAUUAUGAUUAUGACAUAUCCAUAUCUUGAAU  
(((((((((((((.....&.....)))))))).))))). -16.00

miRNA: mir-26a  
Human predicted target: ENSG00000170365  
Mouse predicted target: ENSMUSG00000031681  
Rat predicted target: ENSRNOG00000018483  
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

miRNA: mir-26a

Human predicted target: ENSG00000173451

Mouse predicted target: ENSMUSG00000020137

Rat predicted target: ENSRNOG00000003993

Hs Gene description: NM\_031435

mir-26a ENSG00000173451 5536 nt UTR 2 hits 98 2486

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

>ENSG00000173451 hs-mir-26a 98 105  
UUCAAGUAAUCCAGGAUAGGCU&GCACUUAUGCCAAAUAUUAUUAAUAAAGUUUUACUUGAAG  
((((((((((..(((((..&.....)))))).....)))))))). -15.84

>ENSG00000173451 hs-mir-26a 2486 2493  
UUCAAGUAAUCCAGGAUAGGCU&CACCAACCUCUACAAAGAACCAGCCAAAGGCUAGGUACUUGAU  
..((((((((((..(((((..&.....)))))).....)))))))). -18.70

mir-26a ENSMUSG00000020137 2721 nt UTR 2 hits 121 2211

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

>ENSMUSG00000020137 hs-mir-26a 121 128  
UUCAAGUAAUCCAGGAUAGGCU&UCUGACAGUUACACUACAAUCAAGUCCUGCAGUUUUACUUGAAG  
((((((((((..(((((..&.....)))))).....)))))))). -21.20

>ENSMUSG00000020137 hs-mir-26a 2211 2218  
UUCAAGUAAUCCAGGAUAGGCU&UCUCAAAUAUCCACGGCAAUAACACUGAGUGUACCUACUUGAU  
..((((((((((..(((((..&.....)))))).....)))))))). -16.60

mir-26a ENSRNOG00000003993 2513 nt UTR 3 hits 103 560 2503

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

>ENSRNOG00000003993 hs-mir-26a 103 110  
UUCAAGUAAUCCAGGAUAGGCU&UGCCGUCAUUACACUACAAUCAAGUGCUUAAGUUUUACUUGAAG  
((((((((((..(((((..&.....)))))).....)))))))). -17.90

>ENSRNOG00000003993 hs-mir-26a 560 567  
UUCAAGUAAUCCAGGAUAGGCU&UCGGGCUAUUACACUACAAUCAAGUGCUUAAGUUUUACUUGAAG  
((((((((((..(((((..&..)))))).....)))))))). -17.10

>ENSRNOG00000003993 hs-mir-26a 2503 2510  
UUCAAGUAAUCCAGGAUAGGCU&CCAAGCACUAAUUAUGUGGUCUGGUUAGGGUAAUACUUGAU  
..((((((((((..(((((..&.....)))))).....)))))))). -20.30

miRNA: mir-26a

Human predicted target: ENSG00000177432

Mouse predicted target: ENSMUSG00000050494

Rat predicted target: ENSRNOG00000007808

Hs Gene description: DOWN-REGULATED IN LIVER MALIGNANCY.

[Source:RefSeq;Acc:NM\_153757] NM\_153757

mir-26a ENSG00000177432 2000 nt UTR 2 hits 813 972

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

>ENSG00000177432 hs-mir-26a 813 820



UUCAAGUAAUCCAGGAUAGGCU&AAAUCACUUUACCUAGCGUUUUAGAAAUAUAAUUUACUUGAAG  
((((((((((.....(((((((&.....)))))))).)))))))). -14.90  
>ENSG00000177432 hs-mir-26a 972 979

UUCAAGUAAUCCAGGAUAGGCU&ACUCUUCACUGAAGCUAAUGUUUGGAAAAAUUAUACUUGAAG  
((((((((((.....(((((((&.....)))))))).)))))))). -18.60  
mir-26a ENSMUSG00000050494 3264 nt UTR 2 hits 781 939

-----1-----1-----  
>ENSMUSG00000050494 hs-mir-26a 781 788  
UUCAAGUAAUCCAGGAUAGGCU&GUUAAAUUACCUUAUAGCAUUUUAGAAAUAUAAUUUACUUGAAG  
((((((((((.....(((((((&.....)))))))).)))))))). -14.10  
>ENSMUSG00000050494 hs-mir-26a 939 946

UUCAAGUAAUCCAGGAUAGGCU&ACUCCUCAUGAAGCUAAUGUUUGGAAAAGUAUACUUGAAG  
((((((((((.....(((((((&.....)))))))).)))))))). -18.60  
mir-26a ENSRNOG00000007808 2000 nt UTR 2 hits 792 950

-----1-----1-----  
>ENSRNOG00000007808 hs-mir-26a 792 799  
UUCAAGUAAUCCAGGAUAGGCU&AUUAAAUUCCCUUAUAGCAUUUUAGAAAUAUAAUUUACUUGAAG  
((((((((((.....(((((((&.....)))))))).)))))))). -14.10  
>ENSRNOG00000007808 hs-mir-26a 950 957

UUCAAGUAAUCCAGGAUAGGCU&CUCCUCAUGAAGCUAAUGUUUGGAAAAGUAUACUUGAAG  
((((((((((.....(((((((&.....)))))))).)))))))). -18.50

miRNA: mir-26b  
Human predicted target: ENSG00000073169  
Mouse predicted target: ENSMUSG00000035757  
Rat predicted target: ENSRNOG00000005579  
Hs Gene description: DJ402G11.5 (NOVEL PROTEIN SIMILAR TO YEAST AND BACTERIAL PREDICTED PROTEINS). [Source:SPTREMBL;Acc:Q9UGX5]  
mir-26b ENSG00000073169 2000 nt UTR 2 hits 810 1636

-----1-----1-----  
>ENSG00000073169 hs-mir-26b 810 817  
UUCAAGUAAUUCAGGAUAGGUU&GGUGGGCCUCACCUUUGAAGAGAAAGUGGGAGUAGUACUUGAAG  
((((((((((.....(((((((&.....)))))))).)))))))). -18.26  
>ENSG00000073169 hs-mir-26b 1636 1643

UUCAAGUAAUUCAGGAUAGGUU&CAUCCGGGGCGUUGGGGGCAAACACCUCGGGCAGGUACUUGAGA  
((((((((((.....(((((((&.....)))))))).)))))))). -15.53  
mir-26b ENSMUSG00000035757 2363 nt UTR 2 hits 631 1449

-----1-----1-----  
>ENSMUSG00000035757 hs-mir-26b 631 638  
UUCAAGUAAUUCAGGAUAGGUU&AGAAGGGCUUACCUUUGAAGAGGAAGUGGGAGUAGUACUUGAAG  
((((((((((.....(((((((&.....)))))))).)))))))). -17.66  
>ENSMUSG00000035757 hs-mir-26b 1449 1456

UUCAAGUAAUUCAGGAUAGGUU&CAUCUGGGGCAUUCGGGGCAAACACCUCAGGCAGGUACUUGAGA

((((((((.....((((&.....))))).))))). -15.53  
mir-26b ENSRNOG00000005579 2000 nt UTR 2 hits 595 1603

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

>ENSRNOG00000005579 hs-mir-26b 595 602  
UUCAAGUAAUUCAGGAUAGGUU&AGGAGGGCUUACCUUGAAGAGGAAGUGGGAGUAGUACUUGAAG  
((((((((.....((((&.....))))).))))). -17.66  
>ENSRNOG00000005579 hs-mir-26b 1603 1610  
UUCAAGUAAUUCAGGAUAGGUU&CAUCUGGGGCAUAGGGGCAAACACCUCAGGCAGGUACUUGAGG  
((((((((.....((((&.....))))).))))). -15.53

miRNA: mir-26b

Human predicted target: ENSG00000080603

Mouse predicted target: ENSMUSG00000042397

Rat predicted target: ENSRNOG00000018637

Hs Gene description: SNF2-RELATED CBP ACTIVATOR PROTEIN.

[Source:RefSeq;Acc:NM\_006662] NM\_006662

mir-26b ENSG00000080603 2000 nt UTR 2 hits 74 260

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

>ENSG00000080603 hs-mir-26b 74 81  
UUCAAGUAAUUCAGGAUAGGUU&CUCCUCCAUGACCAGGCCUGACUCUGUUAACCACUACUUGAAG  
((((((((.....((((&.....))))).))))). -20.36

>ENSG00000080603 hs-mir-26b 260 267  
UUCAAGUAAUUCAGGAUAGGUU&AGGGUGGCAAGAUAGUCUCUGUCCCCACCCCUUGUACUUGAU  
.((((((((.....((((&.....))))).))))). -17.59

mir-26b ENSMUSG00000042397 2000 nt UTR 2 hits 73 254

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

>ENSMUSG00000042397 hs-mir-26b 73 80  
UUCAAGUAAUUCAGGAUAGGUU&GCUUCCCUUGCCCAGGCCUGACUCUGAUAAACCACUACUUGAAG  
((((((((.....((((&.....))))).))))). -20.80

>ENSMUSG00000042397 hs-mir-26b 254 261  
UUCAAGUAAUUCAGGAUAGGUU&AGGGUGGCAAGAUAGUUUCUGUCCCCACCCCUUGUACUUGAU  
.((((((((.....((((&.....))))).))))). -17.69

mir-26b ENSRNOG00000018637 2000 nt UTR 2 hits 76 262

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

>ENSRNOG00000018637 hs-mir-26b 76 83  
UUCAAGUAAUUCAGGAUAGGUU&GCUUCCCAUGCCCAGGCCUGACUCUGUUAACCACUACUUGAAG  
((((((((.....((((&.....))))).))))). -18.90

>ENSRNOG00000018637 hs-mir-26b 262 269  
UUCAAGUAAUUCAGGAUAGGUU&AGGGUGGCAAGAUAGUUUCUGUCCCCACCCCUUGUACUUGAU  
.((((((((.....((((&.....))))).))))). -17.69

miRNA: mir-26b

Human predicted target: ENSG00000119812  
Mouse predicted target: ENSMUSG00000002017  
Rat predicted target: ENSRNOG00000004190

mir-26b ENSG00000119812 3114 nt UTR 2 hits 312 760

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

>ENSG00000119812 hs-mir-26b 312 319  
UUCAAGUAAUUCAGGAUAGGUU&CCACAGUCAGAACAUGCAAACUUUUUGAAGAAAUUACUUGAAU  
(((((((((((((((((((((((((&.....)))))))))).....)))))))). -18.00

>ENSG00000119812 hs-mir-26b 760 767  
UUCAAGUAAUUCAGGAUAGGUU&CAUCCAAAACAAAUCCUCCUUAACCUUAUUUUUACUUGAAA  
(((((((((((((((((((((((((&.....)))))))))).....)))))))). -17.60

mir-26b ENSMUSG00000002017 3111 nt UTR 2 hits 311 772

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

>ENSMUSG00000002017 hs-mir-26b 311 318  
UUCAAGUAAUUCAGGAUAGGUU&AUCCAGUUGGAACAUAACAUGCUUUUUUGAAGAAAUUACUUGAAU  
(((((((((((((((((((((((((&.....)))))))))).....)))))))). -17.40

>ENSMUSG00000002017 hs-mir-26b 772 779  
UUCAAGUAAUUCAGGAUAGGUU&AUCCGAGACAAACGUUCCUCCUUCACCCUUGUUUUUACUUGAAA  
(((((((((((((((((((((((((&.....)))))))))).....)))))))). -18.50

mir-26b ENSRNOG00000004190 2000 nt UTR 2 hits 309 751

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

>ENSRNOG00000004190 hs-mir-26b 309 316  
UUCAAGUAAUUCAGGAUAGGUU&AUCCAGUUGAAACAUAACAUGCUUUUUUGAAGAAAUUACUUGAAU  
(((((((((((((((((((((((((&.....)))))))))).....)))))))). -17.40

>ENSRNOG00000004190 hs-mir-26b 751 758  
UUCAAGUAAUUCAGGAUAGGUU&AUCCAAGACAAAAGUCCUCCUUAACCUUGUUUUUACUUGAAA  
(((((((((((((((((((((((((&.....)))))))))).....)))))))). -18.70

miRNA: mir-26b

Human predicted target: ENSG00000121255  
Mouse predicted target: ENSMUSG000000041245  
Rat predicted target: ENSRNOG00000002634

mir-26b ENSG00000121255 3902 nt UTR 2 hits 244 1220

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

>ENSG00000121255 hs-mir-26b 244 251  
UUCAAGUAAUUCAGGAUAGGUU&AAAUGUUUUUUCACUUCAAAUUCUAUCCUUCUUUGAUACUUGAU  
(((((((((((((((((((((((((&.....)))))))))).....)))))))). -20.50

>ENSG00000121255 hs-mir-26b 1220 1227  
UUCAAGUAAUUCAGGAUAGGUU&AGCUACACCUCAAUCCAUUCUUCUGAAGUGAAAUUUACUUGAC  
(((((((((((((((((((((((((&.....)))))))))).....)))))))). -18.60

mir-26b ENSMUSG000000041245 2000 nt UTR 2 hits 234 913

-----1-----1-----  
-----  
>ENSMUSG00000041245 hs-mir-26b 234 241  
UUCAAGUAAUUCAGGAUAGGUU&AAAUGUUUUUUCACUUCAACUCCUAUCCUCUUUGAUACUUGAU  
.(((((((.....(((((((..&.....)))))))).))))). -22.70  
>ENSMUSG00000041245 hs-mir-26b 913 920  
UUCAAGUAAUUCAGGAUAGGUU&ACACUUCUGUUAAUCCAUCUUCUAAAGUGAAAUGUACUUGAC  
.(((((((.....(((((((..&.....)))))))).))))). -15.40  
mir-26b ENSRNOG00000002634 2000 nt UTR 2 hits 234 920

-----1-----1-----  
-----  
>ENSRNOG00000002634 hs-mir-26b 234 241  
UUCAAGUAAUUCAGGAUAGGUU&AAAUGUUUUUUCACUUCAAAUCCUAUCCUCUUUGAUACUUGAU  
.(((((((.....(((((((..&.....)))))))).))))). -22.70  
>ENSRNOG00000002634 hs-mir-26b 920 927  
UUCAAGUAAUUCAGGAUAGGUU&ACACUUCUGUUAAUCCAUCUUCUAAAGCGAAAUGUACUUGAC  
.(((((((.....(((((((..&.....)))))))).))))). -14.70

miRNA: mir-26b  
Human predicted target: ENSG00000134294  
Mouse predicted target: ENSMUSG00000022462  
Rat predicted target: ENSRNOG00000006305  
Hs Gene description: SOLUTE CARRIER FAMILY 38, MEMBER 2; AMINO ACID  
TRANSPORTER 2. [Source:RefSeq;Acc:NM\_018976] NM\_018976  
mir-26b ENSG00000134294 2000 nt UTR 2 hits 339 1095

-----1-----1-----  
-----  
>ENSG00000134294 hs-mir-26b 339 346  
UUCAAGUAAUUCAGGAUAGGUU&CUGUGUCAUUGUUUAACUUGGAUAAUUUAUGAUUUUACUUGAAU  
(((((((.....(((((((..&.....)))))))).))))). -16.30  
>ENSG00000134294 hs-mir-26b 1095 1102  
UUCAAGUAAUUCAGGAUAGGUU&CUUUUUCAAAUGCUCACCUACUGGAAGUGUGAAUACUUGAC  
.(((((((.....(((((((..&.....)))))))).))))). -22.31  
mir-26b ENSMUSG00000022462 4733 nt UTR 2 hits 360 1098

-----1-----1-----  
-----  
>ENSMUSG00000022462 hs-mir-26b 360 367  
UUCAAGUAAUUCAGGAUAGGUU&CUGUCUCAUUGUUUAACUUGGAUAAUUUAUGAUUUUACUUGAAU  
(((((((.....(((((((..&.....)))))))).))))). -18.20  
>ENSMUSG00000022462 hs-mir-26b 1098 1105  
UUCAAGUAAUUCAGGAUAGGUU&GAACUCCAAAGGCUCAUCUACUGGAAGCGUGGUUUACUUGAC  
.(((((((.....(((((((..&.....)))))))).))))). -17.60  
mir-26b ENSRNOG00000006305 4712 nt UTR 2 hits 335 1070

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

>ENSRNOG00000006305 hs-mir-26b 335 342  
UUCAAGUAAUUCAGGAUAGGUU&CUGUCUCAUUGUUUAACUUGGAUAAUUUAUGAUUUUACUUGAAU  
(((((((((((((...&)))))).....)))))))). -18.20  
>ENSRNOG00000006305 hs-mir-26b 1070 1077  
UUCAAGUAAUUCAGGAUAGGUU&GAACUUUCAACGCUCGCCUACUGGAAGCGUGAUUUACUUGAC  
(((((((((((((...&.....)))))).....)))))))). -20.60

miRNA: mir-26b

Human predicted target: ENSG00000137266  
Mouse predicted target: ENSMUSG00000038267  
Rat predicted target: ENSRNOG00000017210

mir-26b ENSG00000137266 2000 nt UTR 2 hits 650 854

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

>ENSG00000137266 hs-mir-26b 650 657  
UUCAAGUAAUUCAGGAUAGGUU&ACCAGCUUCAUCUUCCUUCAGGAUCAUCCUUUUGUACUUGAU  
(((((((((((((...&.....)))))).....)))))))). -20.00  
>ENSG00000137266 hs-mir-26b 854 861  
UUCAAGUAAUUCAGGAUAGGUU&AGUCCCUCGUGCACAGGCAGCUCUUGUGCCGGCACUACUUGAAA  
(((((((((((((...&.....)))))).....)))))))). -17.80  
mir-26b ENSMUSG00000038267 5785 nt UTR 2 hits 699 919

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

>ENSMUSG00000038267 hs-mir-26b 699 706  
UUCAAGUAAUUCAGGAUAGGUU&GCUUAAUCUUUCUUCCUUCAGGAUCAUCCUUUUGUACUUGAU  
(((((((((((((...&.....)))))).....)))))))). -20.00  
>ENSMUSG00000038267 hs-mir-26b 919 926  
UUCAAGUAAUUCAGGAUAGGUU&GGUCCCUCUUCUCCCAGCCAGCCUGUUGCCAGUACUACUUGAAA  
(((((((((((((...&.....)))))).....)))))))). -18.12  
mir-26b ENSRNOG00000017210 2913 nt UTR 2 hits 705 919

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

>ENSRNOG00000017210 hs-mir-26b 705 712  
UUCAAGUAAUUCAGGAUAGGUU&GCUUAGUCUUUCUUCCUUCAGGAUCGUCCUUUUGUACUUGAU  
(((((((((((((...&.....)))))).....)))))))). -19.60  
>ENSRNOG00000017210 hs-mir-26b 919 926  
UUCAAGUAAUUCAGGAUAGGUU&UGUCCCUCUUCUCCCAGCCAGCCUGUUGCCAGUACUACUUGAAA  
(((((((((((((...&.....)))))).....)))))))). -18.12

miRNA: mir-27a

Human predicted target: ENSG00000055070  
Mouse predicted target: ENSMUSG00000040842  
Rat predicted target: ENSRNOG00000009183

Hs Gene description: NM\_015609

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

-----1111-----  
-----  
-----

>ENSG00000055070 hs-mir-27a 122 129  
UUCACAGUGGCUAAGUUCGCGC&GGACUUGAGCAGAGGGAACGACCUGACUACUUGCACUGUGAU  
.((((((((((((((((((.....&)))))))).)).....)))). -21.45  
>ENSG00000055070 hs-mir-27a 146 153  
UUCACAGUGGCUAAGUUCGCGC&GACUACUUGCACUGUGAUCCCCCUUGCUCGCGCCACUGUGAC  
.((((((((((((((.....&.....)))).)).....)))). -21.10  
>ENSG00000055070 hs-mir-27a 168 175  
UUCACAGUGGCUAAGUUCGCGC&CCUUGCUCGCGCCACUGUGACCUUGAACCCCAUGCACUGUGAC  
.((((((((((.....&.....)))).)).....)))). -18.70  
>ENSG00000055070 hs-mir-27a 198 205  
UUCACAGUGGCUAAGUUCGCGC&CAUGCACUGUGACCUCUCCCCCUUCCACUGUGAU  
.((((((((((.....&.....)))).)))). -19.50  
mir-27a ENSMUSG00000040842 2000 nt UTR 4 hits 119 143 165 193

-----1111-----  
-----

>ENSMUSG00000040842 hs-mir-27a 119 126  
UUCACAGUGGCUAAGUUCGCGC&GGACUUGAGCAGAGGGAUAACCGACUACUUGCACUGUGAU  
.((((((((((((((((((.....&)))))))).)).....)))). -21.45  
>ENSMUSG00000040842 hs-mir-27a 143 150  
UUCACAGUGGCUAAGUUCGCGC&GACUACUUGCACUGUGAUCCCCCUUGCUCGCGCCACUGUGAC  
.((((((((((((((.....&.....)))).)).....)))). -21.10  
>ENSMUSG00000040842 hs-mir-27a 165 172  
UUCACAGUGGCUAAGUUCGCGC&CCUUGCUCGCGCCACUGUGACCUUGAACCCCAUGCACUGUGAC  
.((((((((((.....&.....)))).)).....)))). -18.70  
>ENSMUSG00000040842 hs-mir-27a 193 200  
UUCACAGUGGCUAAGUUCGCGC&CCAUGCACUGUGACCUCUGCCUCCCCCUUCCACUGUGAU  
.((((((((((.....&.....)))).)))). -19.50  
mir-27a ENSRNOG00000009183 2530 nt UTR 8 hits 117 141 163 191 641  
665 687 715

-----1111-----1111-----  
-----

>ENSRNOG00000009183 hs-mir-27a 117 124  
UUCACAGUGGCUAAGUUCGCGC&GGACUUGAGCAGAGGGAUAACCGACUACUUGCACUGUGAU  
.((((((((((((((((((.....&)))))))).)).....)))). -21.45  
>ENSRNOG00000009183 hs-mir-27a 141 148  
UUCACAGUGGCUAAGUUCGCGC&GACUACUUGCACUGUGAUCCCCCUUGCUCGCGCCACUGUGAC  
.((((((((((((((.....&.....)))).)).....)))). -21.10  
>ENSRNOG00000009183 hs-mir-27a 163 170  
UUCACAGUGGCUAAGUUCGCGC&CCUUGCUCGCGCCACUGUGACCUUGAACCCCAUGCACUGUGAC  
.((((((((((.....&.....)))).)).....)))). -18.70  
>ENSRNOG00000009183 hs-mir-27a 191 198  
UUCACAGUGGCUAAGUUCGCGC&CCAUGCACUGUGACCUCUGCCUCCCCCUUCCACUGUGAU  
.((((((((((.....&.....)))).)))). -19.50  
>ENSRNOG00000009183 hs-mir-27a 641 648

UUCACAGUGGCUAAGUUCGCGCC&GGACUUGAGCAGAGGGAAUAACCUGACUACUUGCACUGUGAU  
.((((((((((((((((((((.....&)))))))).))))). -21.45  
>ENSRNOG00000009183 hs-mir-27a 665 672  
UUCACAGUGGCUAAGUUCGCGCC&GACUACUUGCACUGUGAUCCCCUUGCUCGCGCCACUGUGAC  
.((((((((((((((((((((.....&.....)))))))).))))). -21.10  
>ENSRNOG00000009183 hs-mir-27a 687 694  
UUCACAGUGGCUAAGUUCGCGCC&CCUUGCUCGCGCCACUGUGACCUUGAACCCCAUGCACUGUGAC  
.((((((((((((((((((((.....&.....)))))))).))))). -18.70  
>ENSRNOG00000009183 hs-mir-27a 715 722  
UUCACAGUGGCUAAGUUCGCGCC&CCAUGCACUGUGACCUCUGCCUCCCCCUUCCACUGUGAU  
.((((((((((((((((((((.....&.....)))))))).))))). -19.50

miRNA: mir-27a

Human predicted target: ENSG00000082482

Mouse predicted target: ENSMUSG00000037624

Rat predicted target: ENSRNOG00000002653

Hs Gene description: POTASSIUM CHANNEL SUBFAMILY K MEMBER 2 (OUTWARD  
RECTIFYING POTASSIUM CHANNEL PROTEIN TREK-1) (TREK-1 K+ CHANNEL SUBUNIT)  
(TWO-PORE POTASSIUM CHANNEL TPKC1). [Source:SWISSPROT;Acc:O95069]

NM\_014217

mir-27a ENSG00000082482 2673 nt UTR 2 hits 1271 1904

-----1-----

--1-----

>ENSG00000082482 hs-mir-27a 1271 1278  
UUCACAGUGGCUAAGUUCGCGCC&ACUUGGCUGUGAGGGCAGAAGUUGAAGUUGGGAUCACUGUGAC  
.((((((((((((((((((((.....&.....)))))))).))))). -23.01  
>ENSG00000082482 hs-mir-27a 1904 1911

UUCACAGUGGCUAAGUUCGCGCC&CCGAAAUAUUUAUUGGUGGAAUGCGCCAUGUAUAAACUGUGAAU  
((((((((((((((((((((.....&.....)))))))).))))). -28.90  
mir-27a ENSMUSG00000037624 3853 nt UTR 2 hits 1202 1820

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

-----1-----

-----

>ENSMUSG00000037624 hs-mir-27a 1202 1209  
UUCACAGUGGCUAAGUUCGCGCC&GACUGGGUGUGAGCACAGAUGCUGGCCUUGGGAUCACUGUGAGU  
((((((((((((((((((((.....&.....)))))))).))))). -25.50  
>ENSMUSG00000037624 hs-mir-27a 1820 1827

UUCACAGUGGCUAAGUUCGCGCC&CUGGAAGCUGACAUGGUGGGAUGUACCACGUAAACUGUGAAC  
((((((((((((((((((((.....&.....)))))))).))))). -24.80  
mir-27a ENSRNOG00000002653 3838 nt UTR 2 hits 1196 1806

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

-----1-----

-----

>ENSRNOG00000002653 hs-mir-27a 1196 1203  
UUCACAGUGGCUAAGUUCGCGCC&GACUGGGUGUGAGCACAGAGGCUGGACUUGGGAUCACUGUGAGU  
((((((((((((((((((((.....&.....)))))))).))))). -31.70  
>ENSRNOG00000002653 hs-mir-27a 1806 1813

UUCACAGUGGCUAAGUCCGCC&UUGAAGGCUGAUGUGGUGGGAUGUACCACGCAUAAACUGUGAAC  
(((((((((((((.....)))))))).))))). -26.20

miRNA: mir-27a

Human predicted target: ENSG00000109670

Mouse predicted target: ENSMUSG00000028086

Rat predicted target: ENSRNOG00000010889

Hs Gene description: F-BOX PROTEIN FBW7 ISOFORM 2; ARCHIPELAGO,  
DROSOPHILA, HOMOLOG OF; F-BOX PROTEIN FBW7; F-BOX PROTEIN SEL-10; HOMOLOG  
OF C ELEGANS SEL-10. [Source:RefSeq;Acc:NM\_018315] NM\_018315

mir-27a ENSG00000109670 3622 nt UTR 3 hits 503 1379 2865

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

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

>ENSG00000109670 hs-mir-27a 503 510  
UUCACAGUGGCUAAGUCCGCC&GUCAUUUUUCUGGAGUGGAAAAGCUUAAAAAAAAUUACUGUGAAU  
(((((((((((((.....)))))))).))))). -22.70

>ENSG00000109670 hs-mir-27a 1379 1386  
UUCACAGUGGCUAAGUCCGCC&UUGCCUCAUUCUCCAAGAGCCACAACUCAAGCUGAACUGUGAAA  
(((((((((((((.....)))))))).))))). -21.10

>ENSG00000109670 hs-mir-27a 2865 2872  
UUCACAGUGGCUAAGUCCGCC&UACUGCCCAAACCGUGACUACUGUUCACAUGAUGACUGUGAAU  
(((((((((((((.....)))))))).))))). -17.20

mir-27a ENSMUSG00000028086 2086 nt UTR 2 hits 501 1414

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

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

>ENSMUSG00000028086 hs-mir-27a 501 508  
UUCACAGUGGCUAAGUCCGCC&GUCAUUUUUCUGAAGUGGAAAAGCUUAAAACAAUUACUGUGAAU  
(((((((((((((.....)))))))).))))). -22.70

>ENSMUSG00000028086 hs-mir-27a 1414 1421  
UUCACAGUGGCUAAGUCCGCC&CCGCCUCAUUCACCAGGAGCCGUAACUCAAGCUGAACUGUGAAA  
(((((((((((((.....)))))))).))))). -22.30

mir-27a ENSRNOG00000010889 3663 nt UTR 2 hits 537 1419

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

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

>ENSRNOG00000010889 hs-mir-27a 537 544  
UUCACAGUGGCUAAGUCCGCC&AAAAGUCAUUUUUCUGAAGUGGAAAAGCUUAAAUUACUGUGAAU  
(((((((((((((.....)))))))).))))). -25.00

>ENSRNOG00000010889 hs-mir-27a 1419 1426  
UUCACAGUGGCUAAGUCCGCC&CCGCCUCAUUCACCAGGAGCCGUAACUCAAGCUGAACUGUGAAA  
(((((((((((((.....)))))))).))))). -22.30

miRNA: mir-27a

Human predicted target: ENSG00000116176

Mouse predicted target: ENSMUSG00000033200

Rat predicted target: ENSRNOG00000018469

Rat predicted target: ENSRNOG00000018701



Hs Gene description: TRYPTASE GAMMA PRECURSOR (EC 3.4.21.-) (TRANSMEMBRANE TRYPTASE). [Source:SWISSPROT;Acc:Q9NRR2] NM\_012467

mir-27a ENSG00000116176 2137 nt UTR 2 hits 353 873

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

>ENSG00000116176 hs-mir-27a 353 360  
UUCACAGUGGCUAAGUCCGCC&GGUGGUGAGGGCGUGACAGGCGGACAAGAACUCAGACUGUGAGU  
((((((((((..((((((((&.....)))))).....)))))))). -25.20

>ENSG00000116176 hs-mir-27a 873 880  
UUCACAGUGGCUAAGUCCGCC&AGGGGGACCCUGGUUUCUCCAGAGGACACUGGGGGACUGUGAGG  
(((((((((((..((((((&..)))))).....)))))))). -22.25

mir-27a ENSMUSG00000033200 2180 nt UTR 2 hits 232 341

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

>ENSMUSG00000033200 hs-mir-27a 232 239  
UUCACAGUGGCUAAGUCCGCC&GCCUGGGAUGGAGGGGAAGCCCCGCCUCUGUUGGGACUGUGAC  
(((((((((((..((((((&.....)))))).....)))))))). -22.03

>ENSMUSG00000033200 hs-mir-27a 341 348  
UUCACAGUGGCUAAGUCCGCC&AACCACCUAAGAGGAUGGAAUGAUGGGGGUGGGGUACUGUGAGA  
(((((((((((..((((((&.....)))))).....)))))))). -24.80

mir-27a ENSRNOG00000018469 2188 nt UTR 2 hits 327 368

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

>ENSRNOG00000018469 hs-mir-27a 327 334  
UUCACAGUGGCUAAGUCCGCC&CUAGACCAUCUAAGGGGAUGGAAUGGGGGAGGGGCACUGUGAGA  
(((((((((((..((((((&.....)))))).....)))))))). -27.60

>ENSRNOG00000018469 hs-mir-27a 368 375  
UUCACAGUGGCUAAGUCCGCC&AGAGGGAAGGAUGCCGAGUGGUGGACAGAAACAGGACUGUGAAC  
(((((((((((..((((((&.....)))))).....)))))))). -21.37

mir-27a ENSRNOG00000018701 2000 nt UTR 2 hits 462 503

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

>ENSRNOG00000018701 hs-mir-27a 462 469  
UUCACAGUGGCUAAGUCCGCC&CUAGACCAUCUAAGGGGAUGGAAUGGGGGAGGGGCACUGUGAGA  
(((((((((((..((((((&.....)))))).....)))))))). -27.60

>ENSRNOG00000018701 hs-mir-27a 503 510  
UUCACAGUGGCUAAGUCCGCC&AGAGGGAAGGAUGCCGAGUGGUGGACAGAAACAGGACUGUGAAC  
(((((((((((..((((((&.....)))))).....)))))))). -21.37

miRNA: mir-27a

Human predicted target: ENSG00000138031  
Mouse predicted target: ENSMUSG00000020654  
Rat predicted target: ENSRNOG00000003999

Hs Gene description: ADENYLATE CYCLASE TYPE III (EC 4.6.1.1) (ADENYLATE CYCLASE, OLFACTIVE TYPE) (ATP PYROPHOSPHATE-LYASE) (ADENYLYL CYCLASE) (AC-III) (AC3). [Source:SWISSPROT;Acc:O60266] NM\_004036

mir-27a ENSG00000138031 2000 nt UTR 2 hits 286 1739

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

>ENSG00000138031 hs-mir-27a 286 293  
UUCACAGUGGCCUAAGUCCGCC&AUCCCUGCCGUCCUUGCCCCUGAGGGGCCUGACCACUGUGAGC  
(((((((((((((..((..(((&.....))))))..)))))..)))). -25.60

>ENSG00000138031 hs-mir-27a 1739 1746  
UUCACAGUGGCCUAAGUCCGCC&GCAUCUCUAUCCUGGCAUUAUUAGUAGCAGUUACUGUGAC  
..(((((((((((((..((..(((&.....))))))..)))))..)))). -20.00  
mir-27a ENSMUSG00000020654 2091 nt UTR 2 hits 306 763

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

>ENSMUSG00000020654 hs-mir-27a 306 313  
UUCACAGUGGCCUAAGUCCGCC&CAGCUCAGCCCUUCACCCCUAGAGAGGCCAUGGCCACUGUGAGC  
(((((((((((((..((..(((&.....))))))..)))))..)))). -27.80

>ENSMUSG00000020654 hs-mir-27a 763 770  
UUCACAGUGGCCUAAGUCCGCC&ACUCAACUUGAUGAGACUGUUGUGGCAAUUCUGUUACUGUGAC  
..(((((((((((((..((..(((&.....))))))..)))))..)))). -26.10  
mir-27a ENSRNOG00000003999 2738 nt UTR 2 hits 307 764

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

>ENSRNOG00000003999 hs-mir-27a 307 314  
UUCACAGUGGCCUAAGUCCGCC&CAGCUCAGCCCUUCACCCCUAGAGAGGCCACAGCCACUGUGAGC  
(((((((((((((..((..(((&.....))))))..)))))..)))). -27.00

>ENSRNOG00000003999 hs-mir-27a 764 771  
UUCACAGUGGCCUAAGUCCGCC&ACUCAACUUGAUGGGACUGUUGUGGCAAUUCUGUUACUGUGAC  
..(((((((((((((..((..(((&.....))))))..)))))..)))). -26.10

miRNA: mir-27a  
Human predicted target: ENSG00000138623  
Mouse predicted target: ENSMUSG00000038264  
Rat predicted target: ENSRNOG00000007687  
Hs Gene description: SEMAPHORIN 7A PRECURSOR (SEMAPHORIN L) (SEMA L)  
(SEMAPHORIN K1) (SEMA K1) (JOHN-MILTON-HARGEN HUMAN BLOOD GROUP AG) (JMH  
BLOOD GROUP ANTIGEN) (CD108 ANTIGEN) (CDW108).  
[Source:SWISSPROT;Acc:075326] NM\_003612  
mir-27a ENSG00000138623 2642 nt UTR 2 hits 219 1110  
-----1-----1-----  
-----

>ENSG00000138623 hs-mir-27a 219 226  
UUCACAGUGGCCUAAGUCCGCC&GCACGGAUGGUGAGGGGCUGAGAAUGAGGGCACCGACUGUGAAG  
(((((((((((((..((..(((&.....))))))..)))))..)))). -24.90

>ENSG00000138623 hs-mir-27a 1110 1117  
UUCACAGUGGCCUAAGUCCGCC&CACCUUCGCUCAGGACAUGUUAUAACUAGGCUAAACUGUGAAA  
(((((((((((((..((..(((&.....))))))..)))))..)))). -22.00  
mir-27a ENSMUSG00000038264 2605 nt UTR 2 hits 221 1054

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

>ENSMUSG00000038264 hs-mir-27a 221 228  
UUCACAGUGGCUAAGUCCGCC&UAGGGACAGUGAGGGACUAUAGAAGGAAGGCGCCGACUGUGAAG  
((((((((((...((((((...&...)))))))))...)))))))). -23.26  
>ENSMUSG00000038264 hs-mir-27a 1054 1061  
UUCACAGUGGCUAAGUCCGCC&ACCUUCAGCUCAGGACAUGUCCUAACUAGGCUAAACUGUGAAA  
((((((((((...((((((...&...)))))))))...)))))))). -22.00  
mir-27a ENSRNOG00000007687 2000 nt UTR 2 hits 223 1071  
-----1-----1-----

>ENSRNOG00000007687 hs-mir-27a 223 230  
UUCACAGUGGCUAAGUCCGCC&UAGGGACAGUGAGGGACUGUAAAACGAAGGCGCCGACUGUGAAG  
((((((((((...((((((...&...)))))))))...)))))))). -24.36  
>ENSRNOG00000007687 hs-mir-27a 1071 1078  
UUCACAGUGGCUAAGUCCGCC&ACCUUCAGCUCAGGACAUGUCCUAACUAGGCUAAACUGUGAAA  
((((((((((...((((((...&...)))))))))...)))))))). -22.00

miRNA: mir-27a

Human predicted target: ENSG00000145632  
Mouse predicted target: ENSMUSG00000021701  
Rat predicted target: ENSRNOG00000011951  
Hs Gene description: SERINE/THREONINE-PROTEIN KINASE SNK (EC 2.7.1.-)  
(SERUM INDUCIBLE KINASE). [Source:SWISSPROT;Acc:Q9NYY3] NM\_006622  
mir-27a ENSG00000145632 2000 nt UTR 3 hits 40 320 410  
-1-----1---1-----

>ENSG00000145632 hs-mir-27a 40 47  
UUCACAGUGGCUAAGUCCGCC&CUUUUCGAAUGGACCCUAUGGGACUCCUCUUUCCACUGUGAGA  
((((((((((...((((((...&...)))))))))...)))))))). -25.70  
>ENSG00000145632 hs-mir-27a 320 327  
UUCACAGUGGCUAAGUCCGCC&CUCUGUUGAGAGCAUUUCAGCCAGAGGACUUUGGAACUGUGAAU  
((((((((((...((((((...&...)))))))))...)))))))). -22.60  
>ENSG00000145632 hs-mir-27a 410 417  
UUCACAGUGGCUAAGUCCGCC&UAAAGGCUGUAAUUGGAGCAGCUUUUGGCUGCGUAAACUGUGAAC  
((((((((((...((((((...&...)))))))))...)))))))). -25.11  
mir-27a ENSMUSG00000021701 2617 nt UTR 3 hits 338 428 1436  
-----1---1-----

>ENSMUSG00000021701 hs-mir-27a 338 345  
UUCACAGUGGCUAAGUCCGCC&CUCUGUUGAGAGCGUCUUCAGUUGGAAGACUUGGAACUGUGAAU  
((((((((((...((((((...&...)))))))))...)))))))). -24.70  
>ENSMUSG00000021701 hs-mir-27a 428 435  
UUCACAGUGGCUAAGUCCGCC&UAAAGGCUACAAUCAGAGCAGCUUUUGGCUGCUUAAACUGUGAAC  
((((((((((...((((((...&...)))))))))...)))))))). -22.30  
>ENSMUSG00000021701 hs-mir-27a 1436 1443  
UUCACAGUGGCUAAGUCCGCC&GGAGAAGGACAGCAUUUUGUGCUAGAGCUGUUUACACUGUGAU  
((((((((((...((((((...&...)))))))))...)))))))). -23.40  
mir-27a ENSRNOG00000011951 2604 nt UTR 3 hits 44 323 417

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

>ENSRNOG00000011951 hs-mir-27a 44 51  
UUCACAGUGGCUAAGUCCGCC&CUCUUUUAGAGCGGACCUCGUGGGGGCUCUUUUUCCACUGUGAGA  
((((((((((..(((..(((&.....)).))..)))..)))))))). -29.30  
>ENSRNOG00000011951 hs-mir-27a 323 330  
UUCACAGUGGCUAAGUCCGCC&CUCUGUGGAGAGUGUUUUCAGUUGGAAGACUUGGAACUGUGAAU  
((((((((((..((((((((((&.....))))))..)))..)))))))). -25.00  
>ENSRNOG00000011951 hs-mir-27a 417 424  
UUCACAGUGGCUAAGUCCGCC&GGCUACAAUCAGAGCAGCUUUUGUUUGGCUGCUAACUGUGAAC  
((((((((((..(((..(((&.....)).))..)))..)))))))). -20.60

miRNA: mir-27a  
Human predicted target: ENSG00000155760  
Mouse predicted target: ENSMUSG00000041075  
Rat predicted target: ENSRNOG00000016119  
Hs Gene description: FRIZZLED 7 PRECURSOR (FRIZZLED-7) (FZ-7) (HFZ7)  
(FZE3). [Source:SWISSPROT;Acc:075084] NM\_003507  
mir-27a ENSG00000155760 4065 nt UTR 2 hits 348 917

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

>ENSG00000155760 hs-mir-27a 348 355  
UUCACAGUGGCUAAGUCCGCC&CUGUGAGUUUCUCCCGGCUCGAGGCUGAACGGGGACUGUGAGC  
((((((((((..(((..(((..(((&.....)).))..)))..)))))))). -24.50  
>ENSG00000155760 hs-mir-27a 917 924  
UUCACAGUGGCUAAGUCCGCC&GAGGAAACAAAAGUGUCUCCUGUGGAAAGGCAUAACUGUGAC  
.((((((((((..(((..(((..(((&.....)).))..)))..)))))))). -25.90  
mir-27a ENSMUSG00000041075 2179 nt UTR 2 hits 257 951

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

>ENSMUSG00000041075 hs-mir-27a 257 264  
UUCACAGUGGCUAAGUCCGCC&AAAGACUUCUGGCUAAGACUUGCAGGACGAUGCUAACUGUGAAA  
((((((((((..(((..(((..(((&.....)).))..)))..)))))))). -25.60  
>ENSMUSG00000041075 hs-mir-27a 951 958  
UUCACAGUGGCUAAGUCCGCC&CGGGAAACAAAAGUGUCUCCUGAGGAAAGGCCUAACUGUGAAG  
((((((((((..(((..(((..(((&.....)).))..)))..)))))))). -24.30  
mir-27a ENSRNOG00000016119 2000 nt UTR 2 hits 260 927

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

>ENSRNOG00000016119 hs-mir-27a 260 267  
UUCACAGUGGCUAAGUCCGCC&AAAGACUCCUGGCUAAGACUUGCAGGACGAUGCUAACUGUGAAA  
((((((((((..(((..(((..(((&.....)).))..)))..)))))))). -25.60  
>ENSRNOG00000016119 hs-mir-27a 927 934  
UUCACAGUGGCUAAGUCCGCC&CGGGAAACAAAAGUGUCUCCCGGAGGAGAGGCCUAACUGUGAAG  
((((((((((..(((..(((..(((&.....)).))..)))..)))))))). -26.80

miRNA: mir-27a

Human predicted target: ENSG00000165421

Mouse predicted target: ENSMUSG00000030718

Rat predicted target: ENSRNOG00000017227

Hs Gene description: PROTEIN PHOSPHATASE METHYLESTERASE-1.

[Source:RefSeq;Acc:NM\_016147]

mir-27a ENSG00000165421 2000 nt UTR 2 hits 249 1860

```

-----1-----
1-----
>ENSG00000165421 hs-mir-27a 249 256
UUCACAGUGGCCUAAGUCCGCC&AGGCUGUGAUUAAAUUGUGCCUAGUCUCACUCCCCACUGUGAU
.((((((((((...(((((((&..)).)).....)))))))). -20.90
>ENSG00000165421 hs-mir-27a 1860 1867
UUCACAGUGGCCUAAGUCCGCC&UCGAGCUCUGUUGUAAAUACGUCGCACCAGAGGCCACUGUGAU
.((((((((((...&..))))). -25.11
mir-27a ENSMUSG00000030718 3147 nt UTR 2 hits 85 2382

```

```

-----1-----
-----1-----
>ENSMUSG00000030718 hs-mir-27a 85 92
UUCACAGUGGCCUAAGUCCGCC&UUGAGCUCUGUUGUAAAUACAUCGCACCAGAGGCCACUGUGAC
.((((((((((...&..))))). -24.71
>ENSMUSG00000030718 hs-mir-27a 2382 2389
UUCACAGUGGCCUAAGUCCGCC&UUGAGCUCUGUUGUAAAUACAUCGCACCAGAGGCCACUGUGAC
.((((((((((...&..))))). -24.71
mir-27a ENSRNOG00000017227 3137 nt UTR 2 hits 85 2323

```

```

-----1-----
-----1-----
>ENSRNOG00000017227 hs-mir-27a 85 92
UUCACAGUGGCCUAAGUCCGCC&UUGAACUCUGUUGUAAAUACAUCGUUCCAGAGGCCACUGUGAU
.((((((((((...&..))))). -24.81
>ENSRNOG00000017227 hs-mir-27a 2323 2330
UUCACAGUGGCCUAAGUCCGCC&UUGAACUCUGUUGUAAAUACAUCGUUCCAGAGGCCACUGUGAU
.((((((((((...&..))))). -24.81

```

miRNA: mir-27a

Human predicted target: ENSG00000184371

Mouse predicted target: ENSMUSG00000014599

Rat predicted target: ENSRNOG00000018659

Hs Gene description: MACROPHAGE COLONY STIMULATING FACTOR-1 PRECURSOR (CSF-1) (MCSF) (M-CSF). [Source:SWISSPROT;Acc:P09603] NM\_172211

mir-27a ENSG00000184371 4161 nt UTR 2 hits 804 2032

```

-----1-----
-----1-----
>ENSG00000184371 hs-mir-27a 804 811
UUCACAGUGGCCUAAGUCCGCC&CAAGCAGAGGCUCCCCUCAUGAAGGAAGCCAUUGCACUGUGAAC

```

(((((((((...((((&.....)))).....)))))). -20.60  
>ENSG00000184371 hs-mir-27a 2032 2039

UUCACAGUGGCUAAGUUCGCGC&UCUCUGAGAAGUCAAGAGAGGACAUUGGCUCACGCACUGUGAGA  
(((((((((((...((((&.....)))).....)))))). -24.10  
mir-27a ENSMUSG00000014599 4102 nt UTR 2 hits 791 1979

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

>ENSMUSG00000014599 hs-mir-27a 791 798  
UUCACAGUGGCUAAGUUCGCGC&CCAGCAGAGGCACCCCUCAUGAAGGAAGCCAUUGCACUGUGAAU  
(((((((((((...((((&.....)))).....)))))). -20.70  
>ENSMUSG00000014599 hs-mir-27a 1979 1986

UUCACAGUGGCUAAGUUCGCGC&CUCUGAGAAAGCUCAGAGGGAGCACUGCCUCACAAACUGUGAGA  
(((((((((((...((((&.....)))).....)))))). -25.00  
mir-27a ENSRNOG00000018659 3232 nt UTR 2 hits 835 1834

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

>ENSRNOG00000018659 hs-mir-27a 835 842  
UUCACAGUGGCUAAGUUCGCGC&CCAGCAGAGGCACCCCUCAUGAAGGAAGCCAUUGCACUGUGAAU  
(((((((((((...((((&.....)))).....)))))). -20.70  
>ENSRNOG00000018659 hs-mir-27a 1834 1841

UUCACAGUGGCUAAGUUCGCGC&UUGUUCUGAAUCCCUCCCGAGCUGAGACCAGUUACUGUGAC  
.(((((((((((...((((&.....)))).....)))))). -24.10

miRNA: mir-27b

Human predicted target: ENSG00000055070  
Mouse predicted target: ENSMUSG00000040842  
Rat predicted target: ENSRNOG00000009183  
Hs Gene description: NM\_015609

mir-27b ENSG00000055070 5002 nt UTR 4 hits 122 146 168 198  
----1111-----

>ENSG00000055070 hs-mir-27b 122 129  
UUCACAGUGGCUAAGUUCUG&GGACUUGAGCAGAGGGAACGACCUGACUUAUCUUGCACUGUGAU  
.(((((((((((...((((&.....)))).....)))))). -21.85

>ENSG00000055070 hs-mir-27b 146 153  
UUCACAGUGGCUAAGUUCUG&GACUUAUCUUGCACUGUGAUCCCCUUGCUCGCCACUGUGAC  
.(((((((((((...((((&.....)))).....)))))). -21.10

>ENSG00000055070 hs-mir-27b 168 175  
UUCACAGUGGCUAAGUUCUG&CCUUGCUCGCCACUGUGACCUUGAACCCCAUGCACUGUGAC  
.(((((((((((...((((&.....)))).....)))))). -19.10

>ENSG00000055070 hs-mir-27b 198 205  
UUCACAGUGGCUAAGUUCUG&CAUGCACUGUGACCUCCCUUCUCCCUUCCACUGUGAU  
.(((((((((((...((((&.....)))).....)))))). -19.50

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

```

-----1111-----
-----
>ENSMUSG00000040842 hs-mir-27b      119      126
UUCACAGUGGCUAAGUUCUG&GGACUUGAGCAGAGGGAAUAACCUGACUUACUUGCACUGUGAU
.((((((((((((((((((..&)))))))).)).....)))))))). -21.85
>ENSMUSG00000040842 hs-mir-27b      143      150
UUCACAGUGGCUAAGUUCUG&GACUUAUUCACUGUGAUCCCCCUUGCUCGCCCCACUGUGAC
.((((((((((((((((((..&.....)))))))).)).....)))))))). -21.10
>ENSMUSG00000040842 hs-mir-27b      165      172
UUCACAGUGGCUAAGUUCUG&CCUUGCUCGCCCCACUGUGACCUUGAACCCCAUGCACUGUGAC
.((((((((((((((((((..&.....)))))))).)).....)))))))). -19.10
>ENSMUSG00000040842 hs-mir-27b      193      200
UUCACAGUGGCUAAGUUCUG&CCAUGCACUGUGACCUCUGCCUCCCCCCUUCCACUGUGAU
.((((((((((((((((((..&.....)))))))).)).....)))))))). -19.50
mir-27b      ENSRNOG0000009183      2530 nt UTR      8 hits 117 141 163 191 641
665 687 715

```

```

-----1111-----1111-----
-----
>ENSRNOG0000009183 hs-mir-27b      117      124
UUCACAGUGGCUAAGUUCUG&GGACUUGAGCAGAGGGAAUAACCUGACUUACUUGCACUGUGAU
.((((((((((((((((((..&)))))))).)).....)))))))). -21.85
>ENSRNOG0000009183 hs-mir-27b      141      148
UUCACAGUGGCUAAGUUCUG&GACUUAUUCACUGUGAUCCCCCUUGCUCGCCCCACUGUGAC
.((((((((((((((((((..&.....)))))))).)).....)))))))). -21.10
>ENSRNOG0000009183 hs-mir-27b      163      170
UUCACAGUGGCUAAGUUCUG&CCUUGCUCGCCCCACUGUGACCUUGAACCCCAUGCACUGUGAC
.((((((((((((((((((..&.....)))))))).)).....)))))))). -19.10
>ENSRNOG0000009183 hs-mir-27b      191      198
UUCACAGUGGCUAAGUUCUG&CCAUGCACUGUGACCUCUGCCUCCCCCCUUCCACUGUGAU
.((((((((((((((((((..&.....)))))))).)).....)))))))). -19.50
>ENSRNOG0000009183 hs-mir-27b      641      648
UUCACAGUGGCUAAGUUCUG&GGACUUGAGCAGAGGGAAUAACCUGACUUACUUGCACUGUGAU
.((((((((((((((((((..&)))))))).)).....)))))))). -21.85
>ENSRNOG0000009183 hs-mir-27b      665      672
UUCACAGUGGCUAAGUUCUG&GACUUAUUCACUGUGAUCCCCCUUGCUCGCCCCACUGUGAC
.((((((((((((((((((..&.....)))))))).)).....)))))))). -21.10
>ENSRNOG0000009183 hs-mir-27b      687      694
UUCACAGUGGCUAAGUUCUG&CCUUGCUCGCCCCACUGUGACCUUGAACCCCAUGCACUGUGAC
.((((((((((((((((((..&.....)))))))).)).....)))))))). -19.10
>ENSRNOG0000009183 hs-mir-27b      715      722
UUCACAGUGGCUAAGUUCUG&CCAUGCACUGUGACCUCUGCCUCCCCCCUUCCACUGUGAU
.((((((((((((((((((..&.....)))))))).)).....)))))))). -19.50

```

```

miRNA: mir-27b
Human predicted target: ENSG00000082482
Mouse predicted target: ENSMUSG00000037624
Rat predicted target: ENSRNOG0000002653

```

Hs Gene description: POTASSIUM CHANNEL SUBFAMILY K MEMBER 2 (OUTWARD RECTIFYING POTASSIUM CHANNEL PROTEIN TREK-1) (TREK-1 K+ CHANNEL SUBUNIT) (TWO-PORE POTASSIUM CHANNEL TPKC1). [Source:SWISSPROT;Acc:O95069]

NM\_014217

mir-27b ENSG00000082482 2673 nt UTR 2 hits 1271 1904

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

>ENSG00000082482 hs-mir-27b 1271 1278  
UUCACAGUGGCUAAGUUCUG&ACUUGGCUGUGAGGGCAGAAGUUGAAGUUGGGAUCACUGUGAC  
(((((((((((((((((..&.....)))))))).))))). -22.50

>ENSG00000082482 hs-mir-27b 1904 1911  
UUCACAGUGGCUAAGUUCUG&CCGAAAAUUUAUAUGGUGGAAUGCGCCAUGUAUAAACUGUGAAU  
(((((((((((((((((..&.....)))))))).))))). -20.90

mir-27b ENSMUSG00000037624 3853 nt UTR 2 hits 1202 1820

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

>ENSMUSG00000037624 hs-mir-27b 1202 1209  
UUCACAGUGGCUAAGUUCUG&GACUGGGUGUGAGCACAGAUGCUGGCCUUGGGAUCACUGUGAGU  
(((((((((((((((((..&.....)))))))).))))). -22.90

>ENSMUSG00000037624 hs-mir-27b 1820 1827  
UUCACAGUGGCUAAGUUCUG&CUGGAAGCUGACAUGGUGGGAUGUACCACGUAUAAACUGUGAAC  
(((((((((((((((((..&.....)))))))).))))). -16.80

mir-27b ENSRNOG00000002653 3838 nt UTR 2 hits 1196 1806

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

>ENSRNOG00000002653 hs-mir-27b 1196 1203  
UUCACAGUGGCUAAGUUCUG&GACUGGGUGUGAGCACAGAGGCUGGACUUGGGAUCACUGUGAGU  
(((((((((((((((((..&.....)))))))).))))). -26.40

>ENSRNOG00000002653 hs-mir-27b 1806 1813  
UUCACAGUGGCUAAGUUCUG&UUGAAGGCUGAUGUGGUGGGAUGUACCACGCAUAAACUGUGAAC  
(((((((((((((((((..&.....)))))))).))))). -18.20

miRNA: mir-27b

Human predicted target: ENSG00000119927

Mouse predicted target: ENSMUSG00000024978

Rat predicted target: ENSRNOG00000015124

Hs Gene description: GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE, MITOCHONDRIAL PRECURSOR (EC 2.3.1.15) (GPAT). [Source:SWISSPROT;Acc:Q9HCL2] NM\_020918

mir-27b ENSG00000119927 5686 nt UTR 3 hits 326 2054 3557

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

>ENSG00000119927 hs-mir-27b 326 333  
UUCACAGUGGCUAAGUUCUG&AUUGACAUUUUAAGUACAACUUUUAAGGACUAAUACUGUGAU



```

((((((((((...(((((&.....)))))))).)))))))). -20.90
>ENSG00000119927 hs-mir-27b 2054 2061
UUCACAGUGGCUAAGUUCUG&AUGUAUGAUUUGCUAGCUCUCUACCACUUAACUCACUGUGAGG
((((((((((...(((((&.....)))))))).)))))))). -20.10
>ENSG00000119927 hs-mir-27b 3557 3564
UUCACAGUGGCUAAGUUCUG&AAUGUUAAGACUCGUGAAAAGAAUUACUAUAAGGUACUGUGAAA
((((((((((...(((((&.....)))))))).)))))))). -20.20
mir-27b ENSMUSG00000024978 3195 nt UTR 3 hits 307 1769 2106
-----1-----1-----
-----1-----
>ENSMUSG00000024978 hs-mir-27b 307 314
UUCACAGUGGCUAAGUUCUG&GGUUCACAUUUUAAGUACAACUUUUCAGGCUAGUUACUGUGAU
((((((((((...(((((&.....)))))))).)))))))). -23.60
>ENSMUSG00000024978 hs-mir-27b 1769 1776
UUCACAGUGGCUAAGUUCUG&UGCAGUCAGACUUGCUGUUGCCUGACAAUUAACUCACUGUGAGG
((((((((((...(((((&.....)))))))).)))))))). -19.05
>ENSMUSG00000024978 hs-mir-27b 2106 2113
UUCACAGUGGCUAAGUUCUG&UCUGUCAAGUUGAAAUGCAUGCCCUUCAGGGGAAGACUGUGAGU
((((((((((...(((((&.....)))))))).)))))))). -17.00
mir-27b ENSRNOG00000015124 2101 nt UTR 2 hits 315 1772
-----1-----1-----
-----
>ENSRNOG00000015124 hs-mir-27b 315 322
UUCACAGUGGCUAAGUUCUG&ACAUUUUAAUUUAAGUAUAACUUUUCAGGCUAGUUACUGUGAU
((((((((((...(((((&.....)))))))).)))))))). -23.60
>ENSRNOG00000015124 hs-mir-27b 1772 1779
UUCACAGUGGCUAAGUUCUG&AGGACUCGUGUUUACUGUUGCCUGACAAUUAACUCACUGUGAGG
((((((((((...(((((&.....)))))))).)))))))). -20.01

```

```

miRNA: mir-27b
Human predicted target: ENSG00000136630
Mouse predicted target: ENSMUSG00000039377
Rat predicted target: ENSRNOG00000002309
Hs Gene description: HOMEBOX PROTEIN HLX1 (HOMEBOX PROTEIN HB24).
[Source:SWISSPROT;Acc:Q14774] NM_021958
mir-27b ENSG00000136630 2349 nt UTR 2 hits 245 1270
-----1-----1-----
-----
>ENSG00000136630 hs-mir-27b 245 252
UUCACAGUGGCUAAGUUCUG&AGCCGAACACUUCUCUCCGGAAGCAGGCUUGUUCGACUGUGAGG
((((((((((...(((((&.....)))))))).)))))))). -19.90
>ENSG00000136630 hs-mir-27b 1270 1277
UUCACAGUGGCUAAGUUCUG&UAAACCUCUCUCCAGGACCUGUCCUCCUGCUUGUAACUGUGAAA
((((((((((...(((((&.....)))))))).)))))))). -20.60
mir-27b ENSMUSG00000039377 2362 nt UTR 2 hits 251 1760
-----1-----1-----
-----

```

>ENSMUSG00000039377 hs-mir-27b 251 258  
UUCACAGUGGCUAAGUUCUG&AGAAUUCAACUGUUUCCCUACCUAAGCAGCUCACACUGUGAAA  
((((((((((....(((((&.....))))))..)))))))). -20.20  
>ENSMUSG00000039377 hs-mir-27b 1760 1767  
UUCACAGUGGCUAAGUUCUG&UAGAACACCCCUCACUAGGACCGCAAUUUAAAGCCACUGUGAGC  
((((((((((....(((((&.....))))))..)))))))). -25.90  
mir-27b ENSRNOG00000002309 2329 nt UTR 2 hits 214 435

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

>ENSRNOG00000002309 hs-mir-27b 214 221  
UUCACAGUGGCUAAGUUCUG&AGAAUUCGACUGUUCUCCCUACCCAAGCAGCUCACACUGUGAAG  
((((((((((....(((((&.....))))))..)))))))). -20.20  
>ENSRNOG00000002309 hs-mir-27b 435 442  
UUCACAGUGGCUAAGUUCUG&AGAAUUCGACUGUUCUCCCUACCCAAGCAGCUCACACUGUGAAG  
((((((((((....(((((&.....))))))..)))))))). -20.20

miRNA: mir-27b

Human predicted target: ENSG00000138031

Mouse predicted target: ENSMUSG00000020654

Rat predicted target: ENSRNOG00000003999

Hs Gene description: ADENYLATE CYCLASE TYPE III (EC 4.6.1.1) (ADENYLATE CYCLASE, OLFACTIVE TYPE) (ATP PYROPHOSPHATE-LYASE) (ADENYLYL CYCLASE) (AC-III) (AC3). [Source:SWISSPROT;Acc:O60266] NM\_004036

mir-27b ENSG00000138031 2000 nt UTR 2 hits 286 1739

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

>ENSG00000138031 hs-mir-27b 286 293  
UUCACAGUGGCUAAGUUCUG&AUCCUGCCGUCCUUGCCCCUGAGGGGCCUGACCACUGUGAGC  
((((((((((....(((((&.....))))))..)))))))). -24.50  
>ENSG00000138031 hs-mir-27b 1739 1746  
UUCACAGUGGCUAAGUUCUG&GCAUCUCUAUUCUGGCAUUAUUAGUAGCAGUUACUGUGAC  
((((((((((....(((((&.....))))))..)))))))). -20.60  
mir-27b ENSMUSG00000020654 2091 nt UTR 2 hits 306 763

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

>ENSMUSG00000020654 hs-mir-27b 306 313  
UUCACAGUGGCUAAGUUCUG&CAGCUCAGCCCUACCCCUAGAGAGGCCAUGGCCACUGUGAGC  
((((((((((....(((((&.....))))))..)))))))). -28.70  
>ENSMUSG00000020654 hs-mir-27b 763 770  
UUCACAGUGGCUAAGUUCUG&ACUCAACUUGAUGAGACUGUUGUGGCAAUUCUGUUACUGUGAC  
((((((((((....(((((&.....))))))..)))))))). -20.60  
mir-27b ENSRNOG00000003999 2738 nt UTR 2 hits 307 764

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

>ENSRNOG00000003999 hs-mir-27b 307 314  
UUCACAGUGGCUAAGUUCUG&CAGCUCAGCCCUACCCCUAGAGAGGCCACAGCCACUGUGAGC  
((((((((((....(((((&.....))))))..)))))))). -26.80

>ENSRNOG00000003999 hs-mir-27b 764 771  
UUCACAGUGGCUAAGUUCUG&ACUCAACUUGAUGGGACUGUUGUGGCAAUUCUGUUACUGUGAC  
.((((((((((..((((((.&.....)))))).....)))))))). -21.99

miRNA: mir-27b

Human predicted target: ENSG00000138623  
Mouse predicted target: ENSMUSG00000038264  
Rat predicted target: ENSRNOG00000007687  
Hs Gene description: SEMAPHORIN 7A PRECURSOR (SEMAPHORIN L) (SEMA L)  
(SEMAPHORIN K1) (SEMA K1) (JOHN-MILTON-HARGEN HUMAN BLOOD GROUP AG) (JMH  
BLOOD GROUP ANTIGEN) (CD108 ANTIGEN) (CDW108).

[Source:SWISSPROT;Acc:O75326] NM\_003612  
mir-27b ENSG00000138623 2642 nt UTR 2 hits 219 1110

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

>ENSG00000138623 hs-mir-27b 219 226  
UUCACAGUGGCUAAGUUCUG&GCACGGAUGGUGAGGGGCUGAGAAUGAGGGCACCACUGUGAAG  
((((((((((..((((((.&.....)))))).....)))))))). -22.80

>ENSG00000138623 hs-mir-27b 1110 1117  
UUCACAGUGGCUAAGUUCUG&CACCUUCGCUCAGGACAUGUUAUAACUUAAGGCUAAACUGUGAAA  
((((((((((..((((((.&.....)))))).....)))))))). -22.00

mir-27b ENSMUSG00000038264 2605 nt UTR 2 hits 221 1054

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

>ENSMUSG00000038264 hs-mir-27b 221 228  
UUCACAGUGGCUAAGUUCUG&UAGGGACAGUGAGGGACUAUAGAAGGAAGGCGCCGACUGUGAAG  
((((((((((..((((((.&.....)))))).....)))))))). -22.80

>ENSMUSG00000038264 hs-mir-27b 1054 1061  
UUCACAGUGGCUAAGUUCUG&ACCUUCAGCUCAGGACAUGUCCUUAACUUAAGGCUAAACUGUGAAA  
((((((((((..((((((.&.....)))))).....)))))))). -22.00

mir-27b ENSRNOG00000007687 2000 nt UTR 2 hits 223 1071

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

>ENSRNOG00000007687 hs-mir-27b 223 230  
UUCACAGUGGCUAAGUUCUG&UAGGGACAGUGAGGGACUGUAAAACGAAGGCGCCGACUGUGAAG  
((((((((((..((((((.&.....)))))).....)))))))). -23.46

>ENSRNOG00000007687 hs-mir-27b 1071 1078  
UUCACAGUGGCUAAGUUCUG&ACCUUCAGCUCAGGACAUGUCCUUAACUUAAGGCUAAACUGUGAAA  
((((((((((..((((((.&.....)))))).....)))))))). -22.00

miRNA: mir-27b

Human predicted target: ENSG00000139800  
Mouse predicted target: ENSMUSG00000041703  
Rat predicted target: ENSRNOG00000014358  
Hs Gene description: ZINC FINGER PROTEIN OF THE CEREBELLUM 5; ZINC FAMILY  
MEMBER 5 PROTEIN. [Source:RefSeq;Acc:NM\_033132] NM\_033132

mir-27b ENSG00000139800 2180 nt UTR 3 hits 762 814 822  
-----1-2-----  
-----

>ENSG00000139800 hs-mir-27b 762 769  
UUCACAGUGGCUAAGUUCUG&UGCAGCAACCUUAAUAUAUCUCCAUAUCUUGUGCUACUGUGAU  
.((((((((((((((...(&.....)))))))).))))). -22.60  
>ENSG00000139800 hs-mir-27b 814 821  
UUCACAGUGGCUAAGUUCUG&AAAAGUGGAGAGAAGAAAAGCUGCUGCAAAGACAACUGUGAAA  
((((((((((((((...(((.&.....)))))).)))).)).....))))). -18.61  
>ENSG00000139800 hs-mir-27b 822 829  
UUCACAGUGGCUAAGUUCUG&AGAGAAGAAAAGCUGCUGCAAAGACAACUGUGAAACUGUGAU  
.(((((((..((..(((...&.....))))..)))).)))). -16.90  
mir-27b ENSMUSG00000041703 2176 nt UTR 2 hits 947 1002

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

>ENSMUSG00000041703 hs-mir-27b 947 954  
UUCACAGUGGCUAAGUUCUG&UGCAGCCACCUUAAAGAUAGCUCCAUAUACCCUGCUACUGUGAU  
.((((((((((((((...((...&.....)))))))).))))). -20.60  
>ENSMUSG00000041703 hs-mir-27b 1002 1009  
UUCACAGUGGCUAAGUUCUG&AAUGGAGAGAAGCUACUGAGACAGACAACUGGGAAACUGUGAU  
.((((((((((..((..((((((&.....))))..)))).)))).)))). -21.70  
mir-27b ENSRNOG00000014358 2173 nt UTR 2 hits 1019 1075

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

>ENSRNOG00000014358 hs-mir-27b 1019 1026  
UUCACAGUGGCUAAGUUCUG&UGCAGCCACCUUAAUAUAGCUCCAUAUACUGUGCUACUGUGAU  
.((((((((((((((.....&.....)))))))).))))). -21.10  
>ENSRNOG00000014358 hs-mir-27b 1075 1082  
UUCACAGUGGCUAAGUUCUG&AUGGAGAAGAGUUGCUGAGACAGACAGCUGGGGAAACUGUGAU  
.((((((((((..((..((((((&.....))))..)))).)))).)))). -21.80

miRNA: mir-27b

Human predicted target: ENSG00000145632

Mouse predicted target: ENSMUSG00000021701

Rat predicted target: ENSRNOG00000011951

Hs Gene description: SERINE/THREONINE-PROTEIN KINASE SNK (EC 2.7.1.-)  
(SERUM INDUCIBLE KINASE). [Source:SWISSPROT;Acc:Q9NYY3] NM\_006622

mir-27b ENSG00000145632 2000 nt UTR 3 hits 40 320 410  
-1-----1--1-----  
-----

>ENSG00000145632 hs-mir-27b 40 47  
UUCACAGUGGCUAAGUUCUG&CUUUUCGAAUGGACCCUAUGGGACUCCUCUUUCCACUGUGAGA  
((((((((((((((...(((.&.....)))))))).)).....))))). -23.20  
>ENSG00000145632 hs-mir-27b 320 327  
UUCACAGUGGCUAAGUUCUG&CUCUGUUGAGAGCAUUUCAGCCAGAGGACUUUGGAACUGUGAAU  
((((((((((..((..((((((&.....))))..)))).)))).)))). -23.00  
>ENSG00000145632 hs-mir-27b 410 417

UUCACAGUGGCUAAGUUCUG&UAAAGGCUGUAAUUGGAGCAGCUUUUGGCUGCGUAAACUGUGAAC  
((((((((((((((((((..(((&.....)))))))).)))))))). -22.70  
mir-27b ENSMUSG00000021701 2617 nt UTR 3 hits 338 428 1436

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

>ENSMUSG00000021701 hs-mir-27b 338 345  
UUCACAGUGGCUAAGUUCUG&CUCUGUUGAGAGCGUCUUCAGUUGGAAGACUUGGAACUGUGAAU  
((((((((((((((((((..(((&.....)))))))).)))))))). -22.40

>ENSMUSG00000021701 hs-mir-27b 428 435  
UUCACAGUGGCUAAGUUCUG&UAAAGGCUACAAUCAGAGCAGCUUUUGGCUGCUUAAACUGUGAAC  
((((((((((((((((((..(((&.....)))))))).)))))))). -23.80

>ENSMUSG00000021701 hs-mir-27b 1436 1443  
UUCACAGUGGCUAAGUUCUG&GGAGAAGGACAGCAUUUUGUGCUAGAGCUGUUUACACUGUGAU  
((((((((((((((((((..(((&.....)))))))).)))))))). -24.40

mir-27b ENSRNOG00000011951 2604 nt UTR 3 hits 44 323 417

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

>ENSRNOG00000011951 hs-mir-27b 44 51  
UUCACAGUGGCUAAGUUCUG&CUCUUUUAGAGCGGACCUCGUGGGGGCUCUUUCCACUGUGAGA  
((((((((((((((((((..(((&.....)))))))).)))))))). -24.70

>ENSRNOG00000011951 hs-mir-27b 323 330  
UUCACAGUGGCUAAGUUCUG&CUCUGUGGAGAGUGUUUUCAGUUGGAAGACUUGGAACUGUGAAU  
((((((((((((((((((..(((&.....)))))))).)))))))). -22.40

>ENSRNOG00000011951 hs-mir-27b 417 424  
UUCACAGUGGCUAAGUUCUG&GGCUACAAUCAGAGCAGCUUUUGUUUGGCUGCUUAAACUGUGAAC  
((((((((((((((((((..(((&.....)))))))).)))))))). -23.00

miRNA: mir-27b

Human predicted target: ENSG00000155760

Mouse predicted target: ENSMUSG00000041075

Rat predicted target: ENSRNOG00000016119

Hs Gene description: FRIZZLED 7 PRECURSOR (FRIZZLED-7) (FZ-7) (HFZ7)  
(FZE3). [Source:SWISSPROT;Acc:O75084] NM\_003507

mir-27b ENSG00000155760 4065 nt UTR 2 hits 348 917

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

>ENSG00000155760 hs-mir-27b 348 355  
UUCACAGUGGCUAAGUUCUG&CUGUGAGUUUCUCCCGGCUCGAGGCUGAACGGGGACUGUGAGC  
((((((((((((((((((..(((&.....)))))))).)))))))). -19.20

>ENSG00000155760 hs-mir-27b 917 924  
UUCACAGUGGCUAAGUUCUG&GAGGAAACAAAAGUGUCUCCUGUGGAAAGGCAUAAACUGUGAC  
((((((((((((((((((..(((&.....)))))))).)))))))). -20.40

mir-27b ENSMUSG00000041075 2179 nt UTR 2 hits 257 951

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

>ENSMUSG00000041075 hs-mir-27b 257 264

UUCACAGUGGCUAAGUUCUG&AAAGACUUCUGGCUAAGACUUGCAGGACGAUGCUAACUGUGAAA  
((((((((((((...(((((&.....))))))....)))))))). -26.20  
>ENSMUSG00000041075 hs-mir-27b 951 958

UUCACAGUGGCUAAGUUCUG&CGGGAAACAAAAGUGUCUCCUGAGGAAAGGCCUAACUGUGAAG  
((((((((((((...(((((&.....))))))....)))))))). -22.70  
mir-27b ENSRNOG00000016119 2000 nt UTR 2 hits 260 927

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

>ENSRNOG00000016119 hs-mir-27b 260 267  
UUCACAGUGGCUAAGUUCUG&AAAGACUCCUGGCUAAGACUUGCAGGACGAUGCUAACUGUGAAA  
((((((((((((...(((((&.....))))))....)))))))). -26.20  
>ENSRNOG00000016119 hs-mir-27b 927 934

UUCACAGUGGCUAAGUUCUG&CGGGAAACAAAAGUGUCUCCCGGAGGAGAGGCCUAACUGUGAAG  
((((((((((((...(((((&.....))))))....)))))))). -22.50

miRNA: mir-27b

Human predicted target: ENSG00000165421

Mouse predicted target: ENSMUSG00000030718

Rat predicted target: ENSRNOG00000017227

Hs Gene description: PROTEIN PHOSPHATASE METHYLESTERASE-1.

[Source:RefSeq;Acc:NM\_016147]

mir-27b ENSG00000165421 2000 nt UTR 2 hits 249 1860

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

>ENSG00000165421 hs-mir-27b 249 256  
UUCACAGUGGCUAAGUUCUG&AGGCUGUGAUUAAAUUGUGCCUAGUCUCACUCCCCACUGUGAU  
.((((((((((((...(((((&.....))))))....)))))))). -20.00  
>ENSG00000165421 hs-mir-27b 1860 1867

UUCACAGUGGCUAAGUUCUG&UCGAGCUCUGUUGUAAAUAUCGUCGCACCAGAGGCCACUGUGAU  
.((((((((((((...(((((&.....))))))....)))))))). -26.60  
mir-27b ENSMUSG00000030718 3147 nt UTR 2 hits 85 2382

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

>ENSMUSG00000030718 hs-mir-27b 85 92  
UUCACAGUGGCUAAGUUCUG&UUGAGCUCUGUUGUAAAUAUCAUCGCACCAGAGGCCACUGUGAC  
.((((((((((((...(((((&.....))))))....)))))))). -26.50  
>ENSMUSG00000030718 hs-mir-27b 2382 2389

UUCACAGUGGCUAAGUUCUG&UUGAGCUCUGUUGUAAAUAUCAUCGCACCAGAGGCCACUGUGAC  
.((((((((((((...(((((&.....))))))....)))))))). -26.50  
mir-27b ENSRNOG00000017227 3137 nt UTR 2 hits 85 2323

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

>ENSRNOG00000017227 hs-mir-27b 85 92  
UUCACAGUGGCUAAGUUCUG&UUGAACUCUGUUGUAAAUAUCAUCGUUCCAGAGGCCACUGUGAU  
.((((((((((((...(((((&.....))))))....)))))))). -26.60  
>ENSRNOG00000017227 hs-mir-27b 2323 2330

UUCACAGUGGCUAAGUUCUG&UUGAACUCUGUUGUAAAUAUCAUCGUUCCAGAGGCCACUGUGAU

.((((((((((((.....(((((&.....)))))))))))))))). -26.60

miRNA: mir-27b

Human predicted target: ENSG00000166862

Mouse predicted target: ENSMUSG00000019146

Rat predicted target: ENSRNOG00000006226

Hs Gene description: VOLTAGE-DEPENDENT CALCIUM CHANNEL GAMMA-2 SUBUNIT (NEURONAL VOLTAGE- GATED CALCIUM CHANNEL GAMMA-2 SUBUNIT).

[Source:SWISSPROT;Acc:Q9Y698] NM\_006078

mir-27b ENSG00000166862 2294 nt UTR 2 hits 826 1330

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

>ENSG00000166862 hs-mir-27b 826 833  
UUCACAGUGGCUAAGUUCUG&GCCCCAGGUUCCCAGUCCUUA AUGCUCCUUAACCCACUGUGAU  
.((((((((((((.....(((((&.....)))))))))))))))). -21.82

>ENSG00000166862 hs-mir-27b 1330 1337  
UUCACAGUGGCUAAGUUCUG&AUAGUAUUUUUCUUUUAUUCUUUUCAGCUUUAACUGUGAAA  
((((((((.....((((.....&.....)))))))). -18.00

mir-27b ENSMUSG00000019146 2186 nt UTR 2 hits 906 1428

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

>ENSMUSG00000019146 hs-mir-27b 906 913  
UUCACAGUGGCUAAGUUCUG&CCCGGUCCUUA AUGGUCCUUA AUGGCCCUUAACCCACUGUGAU  
.((((((((((((.....(((((&.....)))))))))))))))). -22.60

>ENSMUSG00000019146 hs-mir-27b 1428 1435  
UUCACAGUGGCUAAGUUCUG&AGUAUUUUUUUCUUUUAUUCUUUUCAGCUUUAACUGUGAAA  
((((((((.....((((.....&.....)))))))). -18.00

mir-27b ENSRNOG00000006226 2121 nt UTR 2 hits 912 1418

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

>ENSRNOG00000006226 hs-mir-27b 912 919  
UUCACAGUGGCUAAGUUCUG&GCCCCAGGUUCCCAGUCCUUA AUGGUCCUUAACCCACUGUGAU  
.((((((((((((.....(((((&.....)))))))))))))))). -23.30

>ENSRNOG00000006226 hs-mir-27b 1418 1425  
UUCACAGUGGCUAAGUUCUG&AGUAUUUUUUUCUUUUGAUUCUUUUCAGCUUUAACUGUGAAA  
((((((((.....((((.....&.....)))))))). -18.00

miRNA: mir-29a

Human predicted target: ENSG00000067798

Mouse predicted target: ENSMUSG00000020181

Rat predicted target: ENSRNOG00000006682

Hs Gene description: NEURON NAVIGATOR 3; PORE MEMBRANE AND/OR FILAMENT INTERACTING LIKE PROTEIN 1; STEERIN 3. [Source:RefSeq;Acc:NM\_014903]

mir-29a ENSG00000067798 2000 nt UTR 2 hits 1832 1938

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

>ENSG00000067798 hs-mir-29a 1832 1839  
CUAGCACCAUCUGAAAUCGGUU&UGUGUGAAAAUGUGUUACUUUUAGGACGUGUAUUUGGUGCUAC  
.((((((((((((((((.....&.....)))))))))).....)))))))). -18.70  
>ENSG00000067798 hs-mir-29a 1938 1945  
CUAGCACCAUCUGAAAUCGGUU&UUUCAGAGUGUCACAAAGUCAAUAGGUCCUUACACGGUGCUAU  
.((((((((((((((((.....&)))))))))).....)))))))). -19.25  
mir-29a ENSMUSG00000020181 2000 nt UTR 2 hits 1878 1988

-----  
-1---1  
>ENSMUSG00000020181 hs-mir-29a 1878 1885  
CUAGCACCAUCUGAAAUCGGUU&GAUGAAGCUCUGUGCGCCUUUUAGGAGAUUAUCAUUGGUGCUAC  
.((((((((((((((((.....&.....)))))))))).....)))))))). -20.90  
>ENSMUSG00000020181 hs-mir-29a 1988 1995  
CUAGCACCAUCUGAAAUCGGUU&UUUCGGAUGUCGCUAAGAAUCUAGGUCCUUUCACGGUGCUAC  
.((((((((((((((((.....&.....)))))))))).....)))))))). -18.10  
mir-29a ENSRNOG00000006682 2000 nt UTR 2 hits 1852 1961

-----  
1---1-  
>ENSRNOG00000006682 hs-mir-29a 1852 1859  
CUAGCACCAUCUGAAAUCGGUU&GACAAAGCUCUGUGUGCCUUUGAGGACAUGUUAUUGGUGCUAC  
.((((((((((((((((.....&.....)))))))))).....)))))))). -18.90  
>ENSRNOG00000006682 hs-mir-29a 1961 1968  
CUAGCACCAUCUGAAAUCGGUU&UUUCAGGAUGUCGCUAAGUAUAUAGGUCCUUACACGGUGCUAC  
.((((((((((((((((.....&)))))))))).....)))))))). -17.15

miRNA: mir-29a  
Human predicted target: ENSG00000113761  
Mouse predicted target: ENSMUSG00000021481  
Rat predicted target: ENSRNOG00000016867  
Hs Gene description: DOUBLE-STRANDED RNA-BINDING ZINC FINGER PROTEIN JAZ.  
[Source:RefSeq;Acc:NM\_012279] NM\_012279  
mir-29a ENSG00000113761 2000 nt UTR 2 hits 643 931

-----  
-----  
>ENSG00000113761 hs-mir-29a 643 650  
CUAGCACCAUCUGAAAUCGGUU&UGCUACCCCGCUGCCCCUCCACAGUUCUGAAUGGUGCUAA  
.((((((((((((((((.....&.....)))))))))).....)))))))). -20.30  
>ENSG00000113761 hs-mir-29a 931 938  
CUAGCACCAUCUGAAAUCGGUU&CCCUUGUGCAGCGGACCACUUGCCAGUUUGCUGUGGUGCUAGC  
((((((((((((((((.....&.....)))))))))).....)))))))). -22.90  
mir-29a ENSMUSG00000021481 4422 nt UTR 2 hits 529 761

-----  
-----  
>ENSMUSG00000021481 hs-mir-29a 529 536  
CUAGCACCAUCUGAAAUCGGUU&AUCUCCGCGUGCCUGCUGUCUCUCCAGUUCUCCUGGUGCUAGG  
((((((((((((((((.....&.....)))))))))).....)))))))). -23.41



>ENSMUSG00000021481 hs-mir-29a 761 768  
CUAGCACCAUCUGAAAUCGGUU&CCCUUGUGUAGUGGGCGAUCCUACCCAGUUGCUGUGGUGCUAU  
.((((((((((((((...(((.(.&.....)))))).....)))))))). -19.90  
mir-29a ENSRNOG00000016867 2000 nt UTR 2 hits 497 763

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

>ENSRNOG00000016867 hs-mir-29a 497 504  
CUAGCACCAUCUGAAAUCGGUU&GCCAUCUCUGCUGCCUGUCUCUCCAGUUCCCGAGUGGUGCUAGG  
((((((((((((((...(((.(.&.....)))))).....)))))))). -24.90

>ENSRNOG00000016867 hs-mir-29a 763 770  
CUAGCACCAUCUGAAAUCGGUU&UCUUGUGUAGUAGGCCUAUCCACCCUGUUUGCUGUGGUGCUAU  
.((((((((((((((...(((.(.&.....)))))).....)))))))). -21.00

miRNA: mir-29a

Human predicted target: ENSG00000114853  
Mouse predicted target: ENSMUSG00000013419  
Rat predicted target: ENSRNOG00000019382  
Hs Gene description: NM\_145166

mir-29a ENSG00000114853 3256 nt UTR 2 hits 889 2346

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

>ENSG00000114853 hs-mir-29a 889 896  
CUAGCACCAUCUGAAAUCGGUU&AGGAUGAGGCUUGGGCAGUGCUGGUAGGGUUUCAAGGUGCUAU  
.((((((((((((((...(((.(.&.....)))))).....)))))))). -20.80

>ENSG00000114853 hs-mir-29a 2346 2353  
CUAGCACCAUCUGAAAUCGGUU&CCCCUGCCCCACUGGGGAUAGGAGCCUGUGUCCCUGGUGCUAA  
.((((((((((((((...(((.(.&.....)))))).....)))))))). -21.20  
mir-29a ENSMUSG00000013419 3302 nt UTR 2 hits 716 1971

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

>ENSMUSG00000013419 hs-mir-29a 716 723  
CUAGCACCAUCUGAAAUCGGUU&CACAGGAGCCUCAGGCAAGUAGUUCAGGGUUUCAUGGUGCUAU  
.((((((((((((((...(((.(.&.....)))))).....)))))))). -22.42

>ENSMUSG00000013419 hs-mir-29a 1971 1978  
CUAGCACCAUCUGAAAUCGGUU&GGGCACAGCCCUCUCUCUGAGGCCCCUGUGUGCCUGGUGCUAC  
.((((((((((((((...(((.(.&.....)))))).....)))))))). -18.31  
mir-29a ENSRNOG00000019382 2000 nt UTR 2 hits 717 1938

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

>ENSRNOG00000019382 hs-mir-29a 717 724  
CUAGCACCAUCUGAAAUCGGUU&CAAAGGAGCCUCAGGCAAGUAGUUCAGGGUUUCAUGGUGCUAU  
.((((((((((((((...(((.(.&.....)))))).....)))))))). -22.42

>ENSRNOG00000019382 hs-mir-29a 1938 1945  
CUAGCACCAUCUGAAAUCGGUU&GCACAGCCCUCUCUCUCUGAGGCCCCUGCAUGCCUGGUGCUAU  
.((((((((((((((...(((.(.&.....)))))).....)))))))). -18.70

miRNA: mir-29a

Human predicted target: ENSG00000126603

Mouse predicted target: ENSMUSG00000014303

Rat predicted target: ENSRNOG00000004766

Hs Gene description: KRUPPEL-LIKE ZINC FINGER PROTEIN GLIS2.

[Source:RefSeq;Acc:NM\_032575] NM\_032575

mir-29a ENSG00000126603 2277 nt UTR 1 hits 137

-----1-----

>ENSG00000126603 hs-mir-29a 137 144  
CUAGCACCAUCUGAAAUCGGUU&GGGCAGCCCCAGCCAGCCCGCCGGGAGCAAGGAUGGUGCUAGG  
((((((((((((((....(((((&.....)))))).....)))))))). -32.40

mir-29a ENSMUSG00000014303 3776 nt UTR 3 hits 158 242 1190

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

>ENSMUSG00000014303 hs-mir-29a 158 165  
CUAGCACCAUCUGAAAUCGGUU&GCCCCAGACAAGCUGGGUGGCAAGGUGGCAAGGAUGGUGCUAGA  
((((((((((((((....(((((&.....)))))).....)))))))). -27.81

>ENSMUSG00000014303 hs-mir-29a 242 249  
CUAGCACCAUCUGAAAUCGGUU&CUUGGACCUGCUGUCCAAGAAGAGCCAUUCUCUUGGGUGCUAA  
.((((((((....(((((&.....)))))).....))))). -20.00

>ENSMUSG00000014303 hs-mir-29a 1190 1197  
CUAGCACCAUCUGAAAUCGGUU&UCAUGUCCCCAUCUGUAGAACAAGAGAGCUGCUGAGGUGCUAGU  
((((((((((....(((((&.....)))))).....))))). -20.70

mir-29a ENSRNOG00000004766 3676 nt UTR 4 hits 161 246 1724 1809

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

>ENSRNOG00000004766 hs-mir-29a 161 168  
CUAGCACCAUCUGAAAUCGGUU&CCCCAGGACAAGCUGGGUGGCAAGGUGGCAAGGAUGGUGCUAGA  
((((((((((((((....(((((&.....)))))).....)))))))). -27.81

>ENSRNOG00000004766 hs-mir-29a 246 253  
CUAGCACCAUCUGAAAUCGGUU&UUGGACUCGCUGUCCAAGAAGAGCCAUUCUCUUGGGUGCUAA  
.((((((((....(((((&.....)))))).....))))). -19.20

>ENSRNOG00000004766 hs-mir-29a 1724 1731  
CUAGCACCAUCUGAAAUCGGUU&GCCCCAGACAAGCUGGGUGGCAAGGUGGCAAGGAUGGUGCUAGA  
((((((((((((((....(((((&.....)))))).....)))))))). -27.81

>ENSRNOG00000004766 hs-mir-29a 1809 1816  
CUAGCACCAUCUGAAAUCGGUU&UUGGACUCGCUGUCCAAGAAGAGCCAUUCUCUUGGGUGCUAA  
.((((((((....(((((&.....)))))).....))))). -19.20

miRNA: mir-29a

Human predicted target: ENSG00000157562

Mouse predicted target: ENSMUSG00000031274

Rat predicted target: ENSRNOG00000018951

Hs Gene description: COLLAGEN ALPHA 5(IV) CHAIN PRECURSOR.

[Source:SWISSPROT;Acc:P29400] NM\_033381

mir-29a ENSG00000157562 3167 nt UTR 2 hits 107 388  
-----1-----1-----  
-----  
>ENSG00000157562 hs-mir-29a 107 114  
CUAGCACCAUCUGAAAUCGGUU&UCAUUGUCCCAACUUUACUACUGCUGCCGUCAAUGGUGCUAC  
.((((((((((...(((.&.....)))))))))...)). -23.60  
>ENSG00000157562 hs-mir-29a 388 395  
CUAGCACCAUCUGAAAUCGGUU&AAAGACUGCAGUUUGUGGGAAGAAUUAUUUUUCACGGUGCUAC  
.((((((((...(((.&.....))))))...)))...)). -17.85  
mir-29a ENSMUSG00000031274 2396 nt UTR 3 hits 130 411 834

-----1-----1-----1-----  
-----  
>ENSMUSG00000031274 hs-mir-29a 130 137  
CUAGCACCAUCUGAAAUCGGUU&UCACUCUCCCCACCUUUACCACUGCUCCCACCAAUGGUGCUAA  
.((((((((((...(((.&.....))))))...)))...)). -19.30  
>ENSMUSG00000031274 hs-mir-29a 411 418  
CUAGCACCAUCUGAAAUCGGUU&UACUGAGUGCGGUUUGAGGAAGUAUUCUUUUUCAUGGUGCUAC  
.((((((((((...(((.&.....))))))...)))...)))...)). -22.39  
>ENSMUSG00000031274 hs-mir-29a 834 841  
CUAGCACCAUCUGAAAUCGGUU&AAAAUACCAAUUAUUAAUAAUUCUUAUUAUUCUGGUGCUAU  
.((((((((...&.....))))))...)). -16.90  
mir-29a ENSRNOG00000018951 3116 nt UTR 2 hits 205 475

-----1-----1-----  
-----  
>ENSRNOG00000018951 hs-mir-29a 205 212  
CUAGCACCAUCUGAAAUCGGUU&UCACUCUCCCAACUUUACCACUGCUACCACCAAUGGUGCUAA  
.((((((((((...(((.&.....))))))...)))...)))...)). -19.30  
>ENSRNOG00000018951 hs-mir-29a 475 482  
CUAGCACCAUCUGAAAUCGGUU&UACUGACUGCAGUUUGAGGAAGUAUUCUUUUUCAUGGUGCUAC  
.((((((((((...(((.&.....))))))...)))...)))...)). -21.99

miRNA: mir-29b  
Human predicted target: ENSG00000072121  
Mouse predicted target: ENSMUSG00000021122  
Rat predicted target: ENSRNOG00000012003

mir-29b ENSG00000072121 2207 nt UTR 2 hits 1402 1936  
-----1-----  
-----  
>ENSG00000072121 hs-mir-29b 1402 1409  
UAGCACCAUUUGAAAUCAGUGUU&GACAAACAGAAACUGGAAGCUGAAGUCAGUGUCUCUGGUGCUC  
.((((((((((...(((.&.....))))))...)))...)))...)). -22.80  
>ENSG00000072121 hs-mir-29b 1936 1943  
UAGCACCAUUUGAAAUCAGUGUU&UGUCUAUCAACAUGUUUCUUGGCUUCAUAACUUCUUGGUGCUGU  
((((((((...(((.&.....))))))...)))...)))...)). -  
20.10  
mir-29b ENSMUSG00000021122 3619 nt UTR 2 hits 954 1113

-----1-----1-----  
-----  
>ENSMUSG00000021122 hs-mir-29b 954 961  
UAGCACCAUUUGAAAUCAGUGUU&UCCUCAGGGACACAGGGUGGAUACCUAAGGUGAGCUGGUGCUGA  
(((((((((((((.(.(.(.(.((((&.....))))))..))).....).)).)))))))). -  
19.82  
>ENSMUSG00000021122 hs-mir-29b 1113 1120  
UAGCACCAUUUGAAAUCAGUGUU&AGGCAACAGGAACUGGAAACUGAAGUCAGUGUCUCUGGUGCUU  
(((((((((((((.(.(.(.(.(((.&.....))))))..))).....).)).)))))))). -22.50  
mir-29b ENSRNOG00000012003 2000 nt UTR 2 hits 1071 1220  
-----1-----1-----

-----  
>ENSRNOG00000012003 hs-mir-29b 1071 1078  
UAGCACCAUUUGAAAUCAGUGUU&UAUGAAGGGUUUACUGCUUUUCACCGUGGGUGGGUUGGUGCUC  
(((((((((((((.(.(.(.(.(((.&.....))))))..))).....).)).)))))))). -21.20  
>ENSRNOG00000012003 hs-mir-29b 1220 1227  
UAGCACCAUUUGAAAUCAGUGUU&AAGGCAACAGGAACUGGAACUGAAGUCAGUGUCUCUGGUGCUU  
(((((((((((((.(.(.(.(.(((.&.....))))))..))).....).)).)))))))). -22.50

miRNA: mir-29b  
Human predicted target: ENSG00000080573  
Mouse predicted target: ENSMUSG00000004098  
Rat predicted target: ENSRNOG00000020525  
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  
--1-----1-----1-----

-----  
>ENSG00000080573 hs-mir-29b 52 59  
UAGCACCAUUUGAAAUCAGUGUU&AGGGACCAUGAGGGAGCCCCAGAAUGGGGUGCAUUUGGUGCUGA  
(((((((((((((.(.(.(.(.(((.&.....))))))..))).....).)).)))))))). -  
21.00  
>ENSG00000080573 hs-mir-29b 385 392  
UAGCACCAUUUGAAAUCAGUGUU&CUCCUCACUCCUCCGUCGCGCCCUUCACACCUUUUGGUGCUAC  
(((((((((((((.(.(.(.(.(((.&.....))))))..))).....).)).)))))))). -  
22.10  
>ENSG00000080573 hs-mir-29b 663 670  
UAGCACCAUUUGAAAUCAGUGUU&GACCAAGAUGUUGGGGGGUGAAUCAGGAUCCUAAUGGUGCUGC  
(((((((((((((.(.(.(.(.(((.&.....))))))..))).....).)).)))))))). -  
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&CCACCCUGCCUCUCCACCCUCCACCAGGCCUUUUGGUGCUAU
((((((((.....((..&.....)))))))). -
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&GAAGGAAGCUAAAGGGAGCCCAUGUGGGGCUAUGUGGUGCUGA
((((((((.....(((..&.....)))))))). -
20.40
>ENSRNOG00000020525 hs-mir-29b      333      340
UAGCACCAUUUGAAAUCAGUGUU&CCACCCUGCCUCUCCACCCUCCACCAGGCCUUUUGGUGCUAU
((((((((.....((..&.....)))))))). -
18.11
>ENSRNOG00000020525 hs-mir-29b      585      592
UAGCACCAUUUGAAAUCAGUGUU&GGACCAAGAUGUUGGGCACAAUUCAGGAUCCUAAAUGGUGCUGC
((((((((((..((..(((..(((&.....)))))))). -
24.40

```

```

miRNA: mir-29b
Human predicted target: ENSG00000085999
Mouse predicted target: ENSMUSG00000028702
Rat predicted target: ENSRNOG00000013148
Rat predicted target: ENSRNOG00000013560
Hs Gene description: RAD54-LIKE PROTEIN; RAD54 HOMOLOG.
[Source:RefSeq;Acc:NM_003579] NM_003579
mir-29b      ENSG00000085999      2191 nt UTR      2 hits 588 1377
-----1-----1-----

```

```

>ENSG00000085999 hs-mir-29b      588      595
UAGCACCAUUUGAAAUCAGUGUU&CGAGCAUGAGACUGUGAGGUACGGGCCCAUCACAUGGUGCUAA
((((((((((..((..(((..(((&.....)))))))). -
22.31
>ENSG00000085999 hs-mir-29b      1377      1384
UAGCACCAUUUGAAAUCAGUGUU&AAAAUUUAUAGUAAAUUCUGAUGGCUGCAUUAGGACUGGUGCUGC
((((((((((..((..(((..(((&.....)))))))). -
21.60
mir-29b      ENSMUSG00000028702      4890 nt UTR      2 hits 624 1412
-----1-----1-----

```

```

>ENSMUSG00000028702 hs-mir-29b      624      631

```

```

UAGCACCAUUUGAAAUCAGUGUU&UGAGGAUGGGCCUGUGAGGUAUGGGCCCAUCACAUGGUGCUGA
(((((((((((((.....(((.....)))))).....)))))))). -
20.81
>ENSMUSG00000028702 hs-mir-29b 1412 1419
UAGCACCAUUUGAAAUCAGUGUU&GAGAAAGUAGAAUUAUCAGAUGACUGAAGCAGGGGUGGUGCUGU
(((((((((((((.....(((.....&.....)))))).....)))))))). -
23.80
mir-29b ENSRNOG00000013148 4613 nt UTR 4 hits 595 1373 3174 3981
-----1-----1-----
-----1-----
>ENSRNOG00000013148 hs-mir-29b 595 602
UAGCACCAUUUGAAAUCAGUGUU&UGAGGAUGGGCCUGUGAGGUAUGGGCCCAUCACAUGGUGCUGA
(((((((((((((.....(((.....&.....)))))).....)))))))). -
20.81
>ENSRNOG00000013148 hs-mir-29b 1373 1380
UAGCACCAUUUGAAAUCAGUGUU&GAGAAAGUAGAAUUAUCGGAUAACUGAAGCAGGGGUGGUGCUGU
(((((((((((((.....(((.....&.....)))))).....)))))))). -
23.70
>ENSRNOG00000013148 hs-mir-29b 3174 3181
UAGCACCAUUUGAAAUCAGUGUU&UGAGGAUGGGCCUGUGAGGUAUGGGCCCAUCACAUGGUGCUGA
(((((((((((((.....(((.....&.....)))))).....)))))))). -
20.81
>ENSRNOG00000013148 hs-mir-29b 3981 3988
UAGCACCAUUUGAAAUCAGUGUU&GAGAAAGUAGAAUUAUCGGAUAACUGAAGCAGGGGUGGUGCUGU
(((((((((((((.....(((.....&.....)))))).....)))))))). -
23.70
mir-29b ENSRNOG00000013560 2000 nt UTR 2 hits 615 1422
-----1-----1-----
-----
>ENSRNOG00000013560 hs-mir-29b 615 622
UAGCACCAUUUGAAAUCAGUGUU&UGAGGAUGGGCCUGUGAGGUAUGGGCCCAUCACAUGGUGCUGA
(((((((((((((.....(((.....&.....)))))).....)))))))). -
20.81
>ENSRNOG00000013560 hs-mir-29b 1422 1429
UAGCACCAUUUGAAAUCAGUGUU&GAGAAAGUAGAAUUAUCGGAUAACUGAAGCAGGGGUGGUGCUGU
(((((((((((((.....(((.....&.....)))))).....)))))))). -
23.70

```

```

miRNA: mir-29b
Human predicted target: ENSG00000100225
Mouse predicted target: ENSMUSG00000001786
Rat predicted target: ENSRNOG00000004637
Hs Gene description: F-BOX ONLY PROTEIN 7. [Source:SWISSPROT;Acc:Q9Y3I1]
NM_012179
mir-29b ENSG00000100225 2281 nt UTR 2 hits 1559 1582

```

>ENSG00000100225 hs-mir-29b 1559 1566  
UAGCACCAUUUGAAAUCAGUGUU&AGGCUUUUUUGAGUGGCCCUUGAGAACUCCAUGGAUGGUGCUGG  
((((((((((.....&.....))))))))). -  
19.80

>ENSG00000100225 hs-mir-29b 1582 1589  
UAGCACCAUUUGAAAUCAGUGUU&GAACUCCAUGGAUGGUGCUGGUGUCCUGUGGAUACUGGUGCUGG  
((((((((((.(.(.(.(((.(.((&.....)).))))).....).))..)))). -  
21.40

mir-29b ENSMUSG00000001786 2220 nt UTR 2 hits 352 1275

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

>ENSMUSG00000001786 hs-mir-29b 352 359  
UAGCACCAUUUGAAAUCAGUGUU&AGGGUGGUUGAUUUAUAGGAAGUGUGUUUUUAUCGUUGGUGCUC  
.((((((((((.(.(((.(.(((.....&.....)).))))).....).)))). -17.70

>ENSMUSG00000001786 hs-mir-29b 1275 1282  
UAGCACCAUUUGAAAUCAGUGUU&UAAGUCAUUUCCAAAUGGGCCUGGGAGGUCCUGAUGGUGCUGG  
((((((((((.(.(((.(.(((.....&.....)).))))).....).)))). -  
25.10

mir-29b ENSRNOG00000004637 2192 nt UTR 2 hits 331 1240

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

>ENSRNOG00000004637 hs-mir-29b 331 338  
UAGCACCAUUUGAAAUCAGUGUU&AGGUGGUUGAUCAACAGGAAGUGUCUGUUUAUCAGUGGUGCUC  
.((((((((((.(.(((.(.(((.....&.....)).))))).....).)))). -20.60

>ENSRNOG00000004637 hs-mir-29b 1240 1247  
UAGCACCAUUUGAAAUCAGUGUU&UAAGUCAUUUCCAAAUGGGCCUGGGAGGUCCUGAUGGUGCUGG  
((((((((((.(.(((.(.(((.....&.....)).))))).....).)))). -  
25.10

miRNA: mir-29b

Human predicted target: ENSG00000103044  
Mouse predicted target: ENSMUSG00000031910  
Rat predicted target: ENSRNOG00000020207

Hs Gene description: HYALURONAN SYNTHASE 3 (EC 2.4.1.212) (HYALURONATE SYNTHASE 3) (HYALURONIC ACID SYNTHASE 3) (HA SYNTHASE 3).

[Source:SWISSPROT;Acc:O00219] NM\_138612

mir-29b ENSG00000103044 4402 nt UTR 3 hits 560 697 1707

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

>ENSG00000103044 hs-mir-29b 560 567  
UAGCACCAUUUGAAAUCAGUGUU&CUGAUCUUUGGGCAUCAGAAAACAGGGUCCAGGAAUGGUGCUU  
.((((((((((.(.(((.(.(((.....&.....)).))))).....).)))). -20.50

>ENSG00000103044 hs-mir-29b 697 704  
UAGCACCAUUUGAAAUCAGUGUU&AGGAAAGUUUGCCAGGAGGAACAAAGAGAUUGUGGUGGUGCUAA

```

((((((((((...(((((((&.....))))))....))))))....))))). -
23.70
>ENSG00000103044 hs-mir-29b 1707 1714
UAGCACCAUUUGAAAUCAGUGUU&GCAAGGUGUGCUCUGAGCCACAGAUGGGCAAACCCUGGUGCUU
.((((((((((...(((((((&.....))))))....))))))....))))). -21.50
mir-29b ENSMUSG00000031910 6074 nt UTR 2 hits 541 2960
-----1-----1-----
-----1-----
-----
>ENSMUSG00000031910 hs-mir-29b 541 548
UAGCACCAUUUGAAAUCAGUGUU&GCCUGACCUUUGGUCAAAAACAGGGUCUAAGAAAUGGUGCUU
.((((((((((...(((((((&.....))))))....))))))....))))). -19.50
>ENSMUSG00000031910 hs-mir-29b 2960 2967
UAGCACCAUUUGAAAUCAGUGUU&UGCCUUUCCAGGACCACCUCUGCACUCUGGGUAGUGGUGCUGA
((((((((((...(((((((&.....))))))....))))))....))))). -
23.22
mir-29b ENSRNOG00000020207 3794 nt UTR 3 hits 430 622 3255
-----1-----1-----
-----1-----
-----
>ENSRNOG00000020207 hs-mir-29b 430 437
UAGCACCAUUUGAAAUCAGUGUU&GCCUGACCUUUGGUCAAAAACAGGGUCUAAGAAGUGGUGCUU
.((((((((((...(((((((&.....))))))....))))))....))))). -19.50
>ENSRNOG00000020207 hs-mir-29b 622 629
UAGCACCAUUUGAAAUCAGUGUU&CAAAAUAUUUGACAGGAGGAUCAAGAUGGUCGUGGUGCUAA
((((((((((...(((((((&.....))))))....))))))....))))). -
21.40
>ENSRNOG00000020207 hs-mir-29b 3255 3262
UAGCACCAUUUGAAAUCAGUGUU&CAGAGCCCUACCUGUUGUCCACUCAGAUGCCAUCCUGGUGCUGU
((((((((((...(((((((&.....))))))....))))))....))))). -
22.10

```

miRNA: mir-29b

Human predicted target: ENSG00000109099

Mouse predicted target: ENSMUSG00000018217

Rat predicted target: ENSRNOG00000003338

Hs Gene description: PERIPHERAL MYELIN PROTEIN 22 (PMP-22).

[Source:SWISSPROT;Acc:Q01453] NM\_153322

mir-29b ENSG00000109099 3137 nt UTR 2 hits 677 1253

```

-----1-----1-----
-----1-----
-----
>ENSG00000109099 hs-mir-29b 677 684
UAGCACCAUUUGAAAUCAGUGUU&CUAAAUGAGAAAUCAGUGACAACAAGUCUUUGAAAUGGUGCUAU
((((((((((...(((((((&.....))))))....))))))....))))). -
24.10
>ENSG00000109099 hs-mir-29b 1253 1260

```



UAGCACCAUUUGAAAUCAGUGUU&AAAGCAAAGUUGAGCUGGAGAUUUGGGUUACAAGAUGGUGCUAA  
((((((((((((((..(((((((((&.....))))))..))))))..))))))..)))))).. -  
22.60

mir-29b ENSMUSG00000018217 3131 nt UTR 3 hits 686 1238 1488  
-----1-----1-----1-----

>ENSMUSG00000018217 hs-mir-29b 686 693  
UAGCACCAUUUGAAAUCAGUGUU&UAAAUGAGAAGUCAGAGACAAGCAAUCUGUGAAAUGGUGCUAU  
((((((((((((((..(((((((((&.....))))))..))))))..))))))..)))))).. -  
22.60

>ENSMUSG00000018217 hs-mir-29b 1238 1245  
UAGCACCAUUUGAAAUCAGUGUU&GUGGAGAUCAUUGUGCAGUUGAUUCGGUUGCCGUCUGGUGCUAC  
((((((((((((((..(((((((((&.....))))))..))))))..))))))..)))))).. -  
20.00

>ENSMUSG00000018217 hs-mir-29b 1488 1495  
UAGCACCAUUUGAAAUCAGUGUU&GAGAAAGAAGCGUGGCCUCUGAAUCACUGGCUGAAUGGUGCUU  
..((((((((((((((..(((((((((&.....))))))..))))))..))))))..)))))).. -24.60

mir-29b ENSRNOG00000003338 3130 nt UTR 3 hits 685 1241 1503  
-----1-----1-----1-----

>ENSRNOG00000003338 hs-mir-29b 685 692  
UAGCACCAUUUGAAAUCAGUGUU&UAAAUGAGACGUCAGAGACAAGCAAUCUGUGAAAUGGUGCUAU  
((((((((((((((..(((((((((&.....))))))..))))))..))))))..)))))).. -  
22.60

>ENSRNOG00000003338 hs-mir-29b 1241 1248  
UAGCACCAUUUGAAAUCAGUGUU&GAAGAGACCAUGGUGCAGUUGUUCGGUUGCCGUGUGGUGCUC  
..((((((((((((((..(((((((((&.....))))))..))))))..))))))..)))))).. -20.50

>ENSRNOG00000003338 hs-mir-29b 1503 1510  
UAGCACCAUUUGAAAUCAGUGUU&UCAUGAGAAGCAUGGCCUCUGAAUCAGUGCCUGACUGGUGCUC  
..((((((((((((((..(((((((((&.....))))))..))))))..))))))..)))))).. -18.20

miRNA: mir-29b

Human predicted target: ENSG00000114270  
Mouse predicted target: ENSMUSG00000025650  
Rat predicted target: ENSRNOG00000020579

Hs Gene description: COLLAGEN ALPHA 1(VII) CHAIN PRECURSOR (LONG-CHAIN  
COLLAGEN) (LC COLLAGEN). [Source:SWISSPROT;Acc:Q02388]

mir-29b ENSG00000114270 2000 nt UTR 2 hits 452 665  
-----1-----1-----

>ENSG00000114270 hs-mir-29b 452 459  
UAGCACCAUUUGAAAUCAGUGUU&UCGGGGUCUCAGCAGAACCCACUGUCCCUCCCUUGGUGCUAG  
((((((((((((((..(((((((((&.....))))))..))))))..))))))..)))))).. -  
23.20

>ENSG00000114270 hs-mir-29b 665 672  
UAGCACCAUUUGAAAUCAGUGUU&UCUGACCCGCCCUUGACCCAAGCCUGUGAUGACAUGGUGCUGA

((((((((((.....(((.((&.....)))))).....)))))))). -  
21.34

mir-29b ENSMUSG00000025650 2363 nt UTR 2 hits 83 315

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

>ENSMUSG00000025650 hs-mir-29b 83 90  
UAGCACCAUUUGAAAUCAGUGUU&GGCAGGGUCUCAGCCGGGUCCUGCUGUGCUCCAUUUGGUGCUAG  
((((((((((.....(((.((&.....)))))).....)))))))). -  
23.20

>ENSMUSG00000025650 hs-mir-29b 315 322  
UAGCACCAUUUGAAAUCAGUGUU&UCCAACCUGCCCCUUGACCCGAGGCUGUGAUACCAUGGUGCUGA  
((((((((((.....(((.((&.....)))))).....)))))))). -  
22.94

mir-29b ENSRNOG00000020579 2000 nt UTR 2 hits 497 707

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

>ENSRNOG00000020579 hs-mir-29b 497 504  
UAGCACCAUUUGAAAUCAGUGUU&UGGCAGGUCUCAGCCGGGUCCUGCUAUCUCAUUUGGUGCUAG  
((((((((((.....(((.((&.....)))))).....)))))))). -  
19.50

>ENSRNOG00000020579 hs-mir-29b 707 714  
UAGCACCAUUUGAAAUCAGUGUU&UCCAACCUGCCCCUUGACCCAAGGCUGUGAUACCAUGGUGCUGA  
((((((((((.....(((.((&.....)))))).....)))))))). -  
22.54

miRNA: mir-29b

Human predicted target: ENSG00000126603  
Mouse predicted target: ENSMUSG00000014303  
Rat predicted target: ENSRNOG00000004766  
Hs Gene description: KRUPPEL-LIKE ZINC FINGER PROTEIN GLIS2.  
[Source:RefSeq;Acc:NM\_032575] NM\_032575

mir-29b ENSG00000126603 2277 nt UTR 2 hits 136 1261

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

>ENSG00000126603 hs-mir-29b 136 143  
UAGCACCAUUUGAAAUCAGUGUU&CGGGCAGCCCAGCCAGCCCGCCGGGAGCAAGGAUGGUGCUAG  
((((((((((.....(((.((&.....)))))).....)))))))). -  
23.80

>ENSG00000126603 hs-mir-29b 1261 1268  
UAGCACCAUUUGAAAUCAGUGUU&GAGGGACCCUGGCAGGGGCCAGAACCACUUAAGGGUGGUGCUGG  
((((((((((.....(((.((&.....)))))).....)))))))). -  
22.00

mir-29b ENSMUSG00000014303 3776 nt UTR 2 hits 157 988

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

>ENSMUSG00000014303 hs-mir-29b 157 164

```

UAGCACCAUUUGAAAUCAGUGUU&AGCCCCAGACAAGCUGGGUGGCAAGGUGGCAAGGAUGGUGCUAG
((((((((((((.....(..((((&.....))))))..)).....)))))))). -
22.70
>ENSMUSG00000014303 hs-mir-29b      988      995
UAGCACCAUUUGAAAUCAGUGUU&AGGGUUCUUUCCUGACUCUAGUUGAACCCUUUUCUUGGUGCUGC
((((((((((((.....(..((((&.....))))))..)).....)))))))). -
19.20
mir-29b      ENSRNOG00000004766      3676 nt UTR      4 hits 160 918 1723 2576
-----1-----1-----1-----
-----1-----
>ENSRNOG00000004766 hs-mir-29b      160      167
UAGCACCAUUUGAAAUCAGUGUU&GCCCCAGGACAAGCUGGGUGGCAAGGUGGCAAGGAUGGUGCUAG
((((((((((((.....(..((((&.....))))))..)).....)))))))). -
22.70
>ENSRNOG00000004766 hs-mir-29b      918      925
UAGCACCAUUUGAAAUCAGUGUU&CAUAGAGCAGGGUUCUUUCCUGACUGCCUUUUCUUGGUGCUGC
((((((((((((.....(..((((&.....))))))..)).....)))))))). -
22.70
>ENSRNOG00000004766 hs-mir-29b      1723     1730
UAGCACCAUUUGAAAUCAGUGUU&AGCCCCAGACAAGCUGGGUGGCAAGGUGGCAAGGAUGGUGCUAG
((((((((((((.....(..((((&.....))))))..)).....)))))))). -
22.70
>ENSRNOG00000004766 hs-mir-29b      2576     2583
UAGCACCAUUUGAAAUCAGUGUU&GGGUUCUUUCCUGACUUUCCAGCUGAGCCUUUUCUUGGUGCUGC
((((((((((((.....(..((((&.....))))))..)).....)))))))). -
23.40

```

miRNA: mir-29b

Human predicted target: ENSG00000132510  
 Mouse predicted target: ENSMUSG00000018476  
 Mouse predicted target: ENSMUSG00000046383  
 Rat predicted target: ENSRNOG00000010142

```

mir-29b      ENSG00000132510      3275 nt UTR      3 hits 744 1690 1696
-----1-----2-----
-----
>ENSG00000132510 hs-mir-29b      744      751
UAGCACCAUUUGAAAUCAGUGUU&CCACCCGUCCGCCGCGGCUCAGCCGGGUUCUCAUGGUGCUC
.((((((((((((.....(..((((&.....))))))..)).....)))))))). -20.90
>ENSG00000132510 hs-mir-29b      1690     1697
UAGCACCAUUUGAAAUCAGUGUU&GAAUCUGCUGGUGGCUGCCUCAAUCUUCUCCUGCUGGUGCUGG
((((((((((((.....(..((((&.....))))))..)).....)))))))). -
21.90
>ENSG00000132510 hs-mir-29b      1696     1703
UAGCACCAUUUGAAAUCAGUGUU&GCUUGGUGGCUGCCUCAAUCUUCUCCUGCUGGUGCUGGUGCUAG
((((((((((((.....(..((((&.....))))))..)).....)))))))). -
22.20
mir-29b      ENSMUSG00000018476      2147 nt UTR      2 hits 782 1743

```

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

>ENSMUSG00000018476 hs-mir-29b 782 789  
UAGCACCAUUUGAAAUCAGUGUU&GUCUCCGCCCGCCCGCGGCUCACAGCCGGGCUCUCAUGGUGCUC  
.((((((((((..((..((..((...&.....))..))..))..)))))))). -20.00  
>ENSMUSG00000018476 hs-mir-29b 1743 1750  
UAGCACCAUUUGAAAUCAGUGUU&GUCUGGUGGCUGUUUCAAUCUCCUCUUGCUGGCACUGGUGCUGG  
((((((((((..(((((..((...&.....)))..)))..))))))..)))))))). -  
23.17  
mir-29b ENSMUSG00000046383 2002 nt UTR 1 hits 1921

-----1-----

>ENSMUSG00000046383 hs-mir-29b 1921 1928  
UAGCACCAUUUGAAAUCAGUGUU&UGC GCGCCGUCG CAGCGCGGGCCUACAGGGCGUGGUGGUCUAG  
((((((((((..(((((..((...&.....)))..)))..))))))..)))))))). -  
20.59  
mir-29b ENSRNOG00000010142 2000 nt UTR 2 hits 776 1729

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

>ENSRNOG00000010142 hs-mir-29b 776 783  
UAGCACCAUUUGAAAUCAGUGUU&GUCUCCGCCCGCCCGCGGCUCACAGCCGGGUUCUCAUGGUGCUC  
.((((((((((..((..((..((...&.....))..))..))..)))))))). -20.90  
>ENSRNOG00000010142 hs-mir-29b 1729 1736  
UAGCACCAUUUGAAAUCAGUGUU&GUCUGGUGGCUGUUUCAAUCUCCUCUUGUUGGCGCUGGUGCUGG  
((((((((((..(((((..((...&.....)))..)))..))))))..)))))))). -  
23.17

miRNA: mir-29b  
Human predicted target: ENSG00000132780  
Mouse predicted target: ENSMUSG00000028693  
Rat predicted target: ENSRNOG00000016454  
Hs Gene description: NUCLEAR AUTOANTIGENIC SPERM PROTEIN (NASP).  
[Source:SWISSPROT;Acc:P49321] NM\_152298

mir-29b ENSG00000132780 2000 nt UTR 2 hits 289 348  
-----1-1-----

>ENSG00000132780 hs-mir-29b 289 296  
UAGCACCAUUUGAAAUCAGUGUU&GUGAUCAAGUGUGGCUGUAGGCCUUUGUUUCCAAUGGUGCUAU  
((((((((((..(((((..((...&.....)))..)))..))))))..)))))))). -  
24.10

>ENSG00000132780 hs-mir-29b 348 355  
UAGCACCAUUUGAAAUCAGUGUU&ACUUCACUGAACCAGCUGUCUUGCAAACUUUCAGUGGUGCUGU  
((((((((((..(((((..((...&.....)))..)))..))))))..)))))))). -  
25.80

mir-29b ENSMUSG00000028693 2106 nt UTR 3 hits 266 325 377  
-----1-1--1-----

```

>ENSMUSG00000028693 hs-mir-29b      266      273
UAGCACCAUUUGAAAUCAGUGUU&UGAUC AAGUGUGGCUAGAAGCCCUUCAUCUUCUACUGGUGCUAU
((((((((((...(((.....&.....)))))))).))))). -
18.30
>ENSMUSG00000028693 hs-mir-29b      325      332
UAGCACCAUUUGAAAUCAGUGUU&ACUUGGCUGAAAUCAAUACUGUGUAAGCUUUCAGUGGUGCUGU
((((((((((...(((.....&.....)))))))).))))). -
23.90
>ENSMUSG00000028693 hs-mir-29b      377      384
UAGCACCAUUUGAAAUCAGUGUU&GGGUCUGCUAAAUAAGAACUGGUAGAAAUCAGUUUGGUGCUGA
((((((((((...(((.....&.....)))))))).))))). -
23.30
mir-29b      ENSRNOG00000016454  2000 nt UTR      4 hits 262 322 374 826
-----1-1-1-----1-----
-----
>ENSRNOG00000016454 hs-mir-29b      262      269
UAGCACCAUUUGAAAUCAGUGUU&GGAGGUGAUC AAGUUGAUC AAGGCCCUUCAUCUACUGGUGCUAU
((((((((((...(((.....&.....)))))))).))))). -
18.40
>ENSRNOG00000016454 hs-mir-29b      322      329
UAGCACCAUUUGAAAUCAGUGUU&AUUUGGCUGAAUUC AAUACCUUGUAAGCUUUC CAUGGUGCUGU
((((((((((...(((.....&.....)))))))).))))). -
25.16
>ENSRNOG00000016454 hs-mir-29b      374      381
UAGCACCAUUUGAAAUCAGUGUU&GGGUCUGCUAAACAAGAACUGGUAGAAAUCAGUUUGGUGCUGA
((((((((((...(((.....&.....)))))))).))))). -
23.30
>ENSRNOG00000016454 hs-mir-29b      826      833
UAGCACCAUUUGAAAUCAGUGUU&GGGUGUCUAAUUGGUCAGAUUAUAAAUACCAUCUUAUGGUGCUAA
((((((((((...(((.....&.....)))))))).))))). -
20.90

```

miRNA: mir-29b

Human predicted target: ENSG00000138779  
 Mouse predicted target: ENSMUSG00000040943  
 Rat predicted target: ENSRNOG00000012350

```

mir-29b      ENSG00000138779      5282 nt UTR      3 hits 447 596 1151
-----1-----1-----1-----
-----
>ENSG00000138779 hs-mir-29b      447      454
UAGCACCAUUUGAAAUCAGUGUU&UAGUAUUACAGUGACAGGAAUCUUA AAAUACCAUCUGGUGCUGA
((((((((((...(((...(((...&.....)))))))).))))). -
19.25
>ENSG00000138779 hs-mir-29b      596      603
UAGCACCAUUUGAAAUCAGUGUU&GGAAAACACUGAAUUGGUUGGAUGUUCUAAGAAAUGGUGCUAA

```

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

>ENSMUSG00000040943 hs-mir-29b 398 405  
UAGCACCAUUUGAAAUCAGUGUU&ACACAGCGCUGUAGUAGAGCAGUUGCAGGAUCAUCUGGUGCUGA  
..... - 24.25

>ENSMUSG00000040943 hs-mir-29b 557 564  
UAGCACCAUUUGAAAUCAGUGUU&CAAACACUGAAUCUGUUUGGGUGUUAACAUAUAAAUGGUGCUC  
..... - 27.80

>ENSMUSG00000040943 hs-mir-29b 1055 1062  
UAGCACCAUUUGAAAUCAGUGUU&GAUAUGCUAGUCCACAGAAAACAAUAACAGUUUUUGGUGCUC  
..... -16.50

>ENSMUSG00000040943 hs-mir-29b 1161 1168  
UAGCACCAUUUGAAAUCAGUGUU&AAGAACGUCUGUAAUUGCAGGUGAUAAUUAGCCUUGGUGCUGC  
..... - 18.21  
mir-29b ENSRNOG00000012350 2000 nt UTR 2 hits 556 1107  
-----1-----1-----

>ENSRNOG00000012350 hs-mir-29b 556 563  
UAGCACCAUUUGAAAUCAGUGUU&CAAACACUGAAUUUGUUUGGGUGUUAACAUAUAAAUGGUGCUC  
..... - 27.80

>ENSRNOG00000012350 hs-mir-29b 1107 1114  
UAGCACCAUUUGAAAUCAGUGUU&GUGAAUGGAUAGGCUAGUCUACAAAACACGUUUCUGGUGCUCU  
..... -21.10

miRNA: mir-29b  
Human predicted target: ENSG00000161267  
Mouse predicted target: ENSMUSG00000046598  
Rat predicted target: ENSRNOG0000001736  
Hs Gene description: D-BETA-HYDROXYBUTYRATE DEHYDROGENASE, MITOCHONDRIAL  
PRECURSOR (EC 1.1.1.30) (BDH) (3-HYDROXYBUTYRATE DEHYDROGENASE).  
[Source:SWISSPROT;Acc:Q02338] NM\_004051  
mir-29b ENSG00000161267 2321 nt UTR 2 hits 579 1159  
-----1-----1-----

>ENSG00000161267 hs-mir-29b 579 586  
UAGCACCAUUUGAAAUCAGUGUU&CACACCAAGUGCCACUGGUACCUCUGCAUGUCCAUGGUGCUGU

```

((((((((((..((((((((..&.....)))))))).)))))))). -
23.10
>ENSG00000161267 hs-mir-29b 1159 1166
UAGCACCAUUUGAAAUCAGUGUU&CUAGCAGUGGAUUUGGGGUCCCUGCUUGCCUCACGUGGUGCUU
.((((((((((..((((((((..&.....)))))))).)))))))). -20.86
mir-29b ENSMUSG00000046598 3806 nt UTR 4 hits 226 797 809 901
-----1-----11--1-----
-----
>ENSMUSG00000046598 hs-mir-29b 226 233
UAGCACCAUUUGAAAUCAGUGUU&GCGCAGGUGGGUGGCCCUAAACCUCAGGGCCAAUAUGGUGCUU
.((((((((((..((((((((..&.....)))))))).)))))))). -17.95
>ENSMUSG00000046598 hs-mir-29b 797 804
UAGCACCAUUUGAAAUCAGUGUU&CUAAGAGCGCAGCUUGGUUUUGCCUAGGACAGGAUUGGUGCUAU
((((((((((..((((((((..&.....)))))))).)))))))). -
21.60
>ENSMUSG00000046598 hs-mir-29b 809 816
UAGCACCAUUUGAAAUCAGUGUU&CUUGGUUUUGCCUAGGACAGGAUUGGUGCUAUGCUUGGUGCUGC
((((((((((..((((((((..&.....)))))))).)))))))). -
20.54
>ENSMUSG00000046598 hs-mir-29b 901 908
UAGCACCAUUUGAAAUCAGUGUU&AUGGGUCUAGAUGCCUGUUGUCUUGUGUGCUCAUGUGGUGCUC
.((((((((((..((((((((..&.....)))))))).)))))))). -19.20
mir-29b ENSRNOG00000001736 2113 nt UTR 4 hits 195 770 782 872
-----1-----11--1-----
-----
>ENSRNOG00000001736 hs-mir-29b 195 202
UAGCACCAUUUGAAAUCAGUGUU&GCACUGGUGGGUGGCCCUAACCCUCAAGGCCAAUAUGGUGCUU
.((((((((((..((((((((..&.....)))))))).)))))))). -23.65
>ENSRNOG00000001736 hs-mir-29b 770 777
UAGCACCAUUUGAAAUCAGUGUU&UGAGUGCAGCUUGGUUUUGCUUCUUAAGGACAGCAUUGGUGCUAU
((((((((((..((((((((..&.....)))))))).)))))))). -
19.55
>ENSRNOG00000001736 hs-mir-29b 782 789
UAGCACCAUUUGAAAUCAGUGUU&GGUUUUGCUUCUUAAGGACAGCAUUGGUGCUAUGCUUGGUGCUGC
((((((((((..((((((((..&.....)))))))).)))))))). -
24.74
>ENSRNOG00000001736 hs-mir-29b 872 879
UAGCACCAUUUGAAAUCAGUGUU&UGCGUCUAGACGCCUGAUUGUCUUGUGUGCUCAUGUGGUGCUC
.((((((((((..((((((((..&.....)))))))).)))))))). -25.20

```

```

miRNA: mir-29b
Human predicted target: ENSG00000163449
Mouse predicted target: ENSMUSG00000026188
Rat predicted target: ENSRNOG00000016091
Hs Gene description: NM_138390
mir-29b ENSG00000163449 4229 nt UTR 3 hits 1929 2048 2156

```

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

>ENSG00000163449 hs-mir-29b 1929 1936  
UAGCACCAUUUGAAAUCAGUGUU&CAGAAUUUGGAGAUUUGGGUCCUUAUAAGAAUAGCUGGUGCUC  
.((((((((.....&.....)))))))). -15.20

>ENSG00000163449 hs-mir-29b 2048 2055  
UAGCACCAUUUGAAAUCAGUGUU&UCCCCACAGAGAGCCAGGACAUUUGCCUGAUGUAUGGUGCUGA  
((((((((.....(((((.&.....)))))))).)))))))). -  
23.80

>ENSG00000163449 hs-mir-29b 2156 2163  
UAGCACCAUUUGAAAUCAGUGUU&AAAAAAAAAGUGCCCAACAGUUUUAGUGUUAAUCUUGGUGCUC  
.((((((((.....((((&.....)))))).)).....)))))))). -16.50

mir-29b ENSMUSG00000026188 2000 nt UTR 3 hits 587 1633 1732  
-----1-----1---1-----

>ENSMUSG00000026188 hs-mir-29b 587 594  
UAGCACCAUUUGAAAUCAGUGUU&UUUCUGGGGUUCACUGGAUGGCAGAAUGUGGCCCUUGGUGCUC  
.((((((((.....((((&.....)))))).)).....)))))))). -22.30

>ENSMUSG00000026188 hs-mir-29b 1633 1640  
UAGCACCAUUUGAAAUCAGUGUU&CCCCAAAACCAGCCAGGGACAUUUAUUUAAUGUAUGGUGCUGA  
((((((((.....((((&.....)))))).)).....)))))))). -  
23.40

>ENSMUSG00000026188 hs-mir-29b 1732 1739  
UAGCACCAUUUGAAAUCAGUGUU&AAAGAAAUGUGUCCAGUAUUUUUGAGGAUAGCUGUGGUGCUU  
.((((((((.....((((&.....)))))).)).....)))))))). -18.34  
mir-29b ENSRNOG00000016091 2000 nt UTR 2 hits 1624 1726  
-----1-----1-----

>ENSRNOG00000016091 hs-mir-29b 1624 1631  
UAGCACCAUUUGAAAUCAGUGUU&CCCCAAAAGCCUGCCAGGGACAUUUAUUUAAUGUAUGGUGCUGA  
((((((((.....((((&.....)))))).)).....)))))))). -  
23.40

>ENSRNOG00000016091 hs-mir-29b 1726 1733  
UAGCACCAUUUGAAAUCAGUGUU&AAAGAAAUGUAUCCAGUAUUUUUGAGGACAGCUGUGGUGCUU  
.((((((((.....((((&.....)))))).)).....)))))))). -19.10

miRNA: mir-29b  
Human predicted target: ENSG00000168542  
Mouse predicted target: ENSMUSG00000026043  
Mouse predicted target: ENSMUSG00000043941  
Rat predicted target: ENSRNOG00000003357  
Hs Gene description: COLLAGEN ALPHA 1(III) CHAIN PRECURSOR.  
[Source:SWISSPROT;Acc:P02461]  
mir-29b ENSG00000168542 2972 nt UTR 2 hits 242 682  
-----1-----1-----



```

>ENSG00000168542 hs-mir-29b      242      249
UAGCACCAUUUGAAAUCAGUGUU&AUUUUUUUACCAAUCCAAUUUCAAAAUGUCUCAAUGGUGCUAU
((((((((((((((((((.....&.....)))))).....)))))))). -
20.10
>ENSG00000168542 hs-mir-29b      682      689
UAGCACCAUUUGAAAUCAGUGUU&ACUAAUAUUUGGAAGGCUUUAAAGACGCAUGUUAUGGUGCUAA
((((((((((((.....(((.....)))))).))..)))))))). -
21.30
mir-29b      ENSMUSG00000026043  2000 nt UTR      1 hits 235
-----1-----
-----
>ENSMUSG00000026043 hs-mir-29b      235      242
UAGCACCAUUUGAAAUCAGUGUU&AUUUUUUUACCAAUCCAACUUCAAAAUGUCUCAAUGGUGCUAU
((((((((((((.....(((.....)))))).))..)))))))). -
20.00
mir-29b      ENSMUSG00000043941  2095 nt UTR      2 hits 1311 1790
-----1-----1-----
-----
>ENSMUSG00000043941 hs-mir-29b      1311      1318
UAGCACCAUUUGAAAUCAGUGUU&ACAAACUUCUCUUUGUAGGGUGCUCGAGGCAAUGAUGGUGCUC
.((((((((((((.....(((.....)))))).))..)))))))). -21.60
>ENSMUSG00000043941 hs-mir-29b      1790      1797
UAGCACCAUUUGAAAUCAGUGUU&GGCCCUCCUGGAACUGCAGGAUCCCUGGAUCCCUGGUGCUAA
((((((((((((.....(((.....)))))).))..)))))))). -
19.20
mir-29b      ENSRNOG00000003357  2000 nt UTR      2 hits 1146 1861
-----1-----
1-----
>ENSRNOG00000003357 hs-mir-29b      1146      1153
UAGCACCAUUUGAAAUCAGUGUU&ACAAACUUCUCUUUGUAGGGUGCUCGAGGCAAUGAUGGUGCUC
.((((((((((((.....(((.....)))))).))..)))))))). -21.60
>ENSRNOG00000003357 hs-mir-29b      1861      1868
UAGCACCAUUUGAAAUCAGUGUU&GGUCCUCCUGGAACUGCAGGAUCCCUGGAUCUCCUGGUGCUAA
((((((((((((.....(((.....)))))).))..)))))))). -
19.90

```

miRNA: mir-29b

Human predicted target: ENSG00000168795  
 Mouse predicted target: ENSMUSG00000049657  
 Rat predicted target: ENSRNOG00000012726  
 Hs Gene description: NM\_014872

```

mir-29b      ENSG00000168795      4404 nt UTR      2 hits 569 2351
-----1-----
-----1-----
-----
>ENSG00000168795 hs-mir-29b      569      576
UAGCACCAUUUGAAAUCAGUGUU&UUUUUACCUGAUUUGCAGUCAUAAACACUGCACUUUGGUGCUGA

```

```

((((((((.....(((((((&.....)))))).....)))))))). -
23.62
>ENSG00000168795 hs-mir-29b 2351 2358
UAGCACCAUUUGAAAUCAGUGUU&UCUAUCAAGGAGUUCUAUCAAGGCAUCCAUGUCAGUGGUGCUAU
((((((((((.....(((((((&.....)))))).....)))))))). -
22.80
mir-29b ENSMUSG00000049657 2218 nt UTR 3 hits 363 516 1703
-----1-----1-----1-----1-----1-----
>ENSMUSG00000049657 hs-mir-29b 363 370
UAGCACCAUUUGAAAUCAGUGUU&GCAAUGCAGAACAUCUGUGUGUAACCAGGUGACUUGGUGCUAU
((((((((((.....(((((((&.....)))))).....)))))))). -
19.70
>ENSMUSG00000049657 hs-mir-29b 516 523
UAGCACCAUUUGAAAUCAGUGUU&GUAUCUGAGUUGCAGUCACAGGCACUGCCCUCUGAUGGUGCUC
.((((((((((.....(((((((&.....)))))).....)))))))). -27.30
>ENSMUSG00000049657 hs-mir-29b 1703 1710
UAGCACCAUUUGAAAUCAGUGUU&AUAGACUAGCAGUUGUCCUUCUGUCUUAAGGGACGUGGUGCUU
.((((((((((.....(((((((&.....)))))).....)))))))). -17.24
mir-29b ENSRNOG00000012726 2171 nt UTR 3 hits 322 463 1674
-----1-----1-----1-----1-----1-----
>ENSRNOG00000012726 hs-mir-29b 322 329
UAGCACCAUUUGAAAUCAGUGUU&ACAGCCGUGCAAAGCCUAUGUGUAACCAGGUGACUUGGUGCUAU
((((((((((.....(((((((&.....)))))).....)))))))). -
17.60
>ENSRNOG00000012726 hs-mir-29b 463 470
UAGCACCAUUUGAAAUCAGUGUU&UAUCCGAGUUGGCAGUCGCAGGCACUGCCCUCUGAUGGUGCUC
.((((((((((.....(((((((&.....)))))).....)))))))). -27.30
>ENSRNOG00000012726 hs-mir-29b 1674 1681
UAGCACCAUUUGAAAUCAGUGUU&AUAAAGUAGCAGUUGUCCUCCUGUCUUAAGAUGUGGUGCUU
.((((((((((.....(((((((&.....)))))).....)))))))). -17.90

```

miRNA: mir-29b

Human predicted target: ENSG00000173546

Mouse predicted target: ENSMUSG00000032911

Rat predicted target: ENSRNOG00000017208

Hs Gene description: MELANOMA-ASSOCIATED CHONDROITIN SULFATE PROTEOGLYCAN  
4. [Source:RefSeq;Acc:NM\_001897] NM\_001897

mir-29b ENSG00000173546 2929 nt UTR 2 hits 77 660

```

---1-----1-----1-----1-----1-----
>ENSG00000173546 hs-mir-29b 77 84
UAGCACCAUUUGAAAUCAGUGUU&CUUGCCCAUGUCCGGGCCCAUUGCUUCCAUGCCUGGUGCUGU
((((((((((.....(((((((&.....)))))).....)))))))). -
20.50
>ENSG00000173546 hs-mir-29b 660 667

```

```

UAGCACCAUUUGAAAUCAGUGUU&UUAUUUAAGGGAGAUUGCAAGGAAGCUAUUUUACAUGGUGCUGA
(((((((((((((((((.(.((.(.(&.....))))))..)).....)))))))). -
20.40
mir-29b   ENSMUSG00000032911   2245 nt UTR       2 hits 468 692
-----1-----1-----
>ENSMUSG00000032911 hs-mir-29b   468   475
UAGCACCAUUUGAAAUCAGUGUU&GGUUGGUUAAUUUAAGGCAAGAAAGCUAUUUUACAUGGUGCUGG
(((((((((((((((((.(.((.(.(&.....))))))..)).....)))))))). -
20.80
>ENSMUSG00000032911 hs-mir-29b   692   699
UAGCACCAUUUGAAAUCAGUGUU&AACGAAGACACUUGACUCCACUGAGCCGUGGCGAAUGGUGCUGU
.(((((((((((((((((.(.((.(.(&.....))))))..)).....)))))))). -28.50
mir-29b   ENSRNOG00000017208   2901 nt UTR       2 hits 454 644
-----1-----1-----
>ENSRNOG00000017208 hs-mir-29b   454   461
UAGCACCAUUUGAAAUCAGUGUU&GGUUGGUUAAUUUAAGGCAAGAAAGCUAUUUUACAUGGUGCUGG
(((((((((((((((((.(.((.(.(&.....))))))..)).....)))))))). -
20.80
>ENSRNOG00000017208 hs-mir-29b   644   651
UAGCACCAUUUGAAAUCAGUGUU&AACUGGGGCACUUGACUCCAUGGAGCCUAGUGAAUGGUGCUGU
.(((((((((((((((((.(.((.(.(&.....))))))..)).....)))))))). -21.51

```

miRNA: mir-29b

Human predicted target: ENSG00000177125  
 Mouse predicted target: ENSMUSG00000026788  
 Rat predicted target: ENSRNOG00000017009

```

mir-29b   ENSG00000177125   2000 nt UTR       2 hits 812 1336
-----1-----1-----
>ENSG00000177125 hs-mir-29b   812   819
UAGCACCAUUUGAAAUCAGUGUU&UUGUUAGUUGUCCAGCAGGUAAGCUGGAUGACCUGUGGUGCUGA
(((((((((((((((((.(.((.(.(&.....))))))..)).....)))))))). -
22.70
>ENSG00000177125 hs-mir-29b   1336  1343
UAGCACCAUUUGAAAUCAGUGUU&UCACCAAUCUGUGUGUCACCAUUUUUUGGUCAUGUGGUGCUGU
(((((((((((((((((.(.((.(.(&.....))))))..)).....)))))))). -
22.00
mir-29b   ENSMUSG00000026788   2000 nt UTR       2 hits 1466 1699
-----1-----1-----
>ENSMUSG00000026788 hs-mir-29b   1466  1473
UAGCACCAUUUGAAAUCAGUGUU&CAGAUCUGUGUGUGUCUCACAUUUUUGGUCAUGUGGUGCUGU
(((((((((((((((((.(.((.(.(&.....))))))..)).....)))))))). -
23.80
>ENSMUSG00000026788 hs-mir-29b   1699  1706

```

UAGCACCAUUUGAAAUCAGUGUU&GAUUCAUAUACACCAACAGGCUUCACAAAUGGCUCUGGUGCUGU  
((((((((((...((..(((..&.....))))))..))..)))). -  
18.80

mir-29b ENSRNOG00000017009 2000 nt UTR 3 hits 792 1317 1542  
-----1-----1-----1-----

>ENSRNOG00000017009 hs-mir-29b 792 799  
UAGCACCAUUUGAAAUCAGUGUU&UUUUUGUUUGUUGUCCAGGUACACUGGACAACCGUGGUGCUGA  
((((((((((...(((..&.....))))))..))..)))). -  
25.92

>ENSRNOG00000017009 hs-mir-29b 1317 1324  
UAGCACCAUUUGAAAUCAGUGUU&CCAGAUCUGUGUAUGUCUCACCAUUUUUGGUCAUGUGGUGCUAU  
((((((((((...(((..&.....))))))..))..)))). -  
22.60

>ENSRNOG00000017009 hs-mir-29b 1542 1549  
UAGCACCAUUUGAAAUCAGUGUU&GAUUCAUACACAGCAACAAGCUUCGAGAUUGGCUCUGGUGCUGU  
((((((((((...((..&.....))))))..))..)))). -  
21.30

miRNA: mir-29b  
Human predicted target: ENSG00000182067  
Mouse predicted target: ENSMUSG00000029071  
Rat predicted target: ENSRNOG00000019423  
Hs Gene description: SEGMENT POLARITY PROTEIN DISHEVELLED HOMOLOG DVL-1  
(DISHEVELLED-1) (DSH HOMOLOG 1). [Source:SWISSPROT;Acc:O14640]  
mir-29b ENSG00000182067 2868 nt UTR 2 hits 1041 1080  
-----1-1-----

>ENSG00000182067 hs-mir-29b 1041 1048  
UAGCACCAUUUGAAAUCAGUGUU&CUGGCGUCAGAUCUGGUGGGCAGUUUUCUGUCCAUGGUGCUGG  
((((((((((...(((..&.....))))))..))..)))). -  
22.30

>ENSG00000182067 hs-mir-29b 1080 1087  
UAGCACCAUUUGAAAUCAGUGUU&GUGGUCUCCGGGUCCUGGUGGUCGGUGCUGGCCGUGGUGCUGG  
((((((((((...(((..&.....))))))..))..)))). -  
22.60

mir-29b ENSMUSG00000029071 2860 nt UTR 2 hits 1079 1170  
-----1-1-----

>ENSMUSG00000029071 hs-mir-29b 1079 1086  
UAGCACCAUUUGAAAUCAGUGUU&UUGUCCCUUGCCGCUUAGGCAUGUGGCUCUGUCCUGGUGCUGG  
((((((((((...(((..&.....))))))..))..)))). -  
19.40

>ENSMUSG00000029071 hs-mir-29b 1170 1177  
UAGCACCAUUUGAAAUCAGUGUU&UGAUUCCAGGGGUCCGCGUGGCUGGCCGUGGUGCUGA  
((((((((((...(((..&.....))))))..))..)))). -  
24.50

mir-29b ENSRNOG00000019423 2869 nt UTR 3 hits 1091 1171 1183  
-----1--11-----

>ENSRNOG00000019423 hs-mir-29b 1091 1098  
UAGCACCAUUUGAAAUCAGUGUU&UUGUCCCUUGCCGCUUAGUCAUGUGGCUCUGUCCUGGUGCUGG  
((((((((((...((...(((.&.....)))))))).))))). -  
19.40

>ENSRNOG00000019423 hs-mir-29b 1171 1178  
UAGCACCAUUUGAAAUCAGUGUU&GGUACUAGAAGCUGAUUCCAGGGGUCCUGGGUGGCUGGUGCUGG  
((((((((((...(((.&.....)))))))).))))). -  
24.01

>ENSRNOG00000019423 hs-mir-29b 1183 1190  
UAGCACCAUUUGAAAUCAGUGUU&UGAUUCCAGGGGUCCUGGGUGGCUGGUGCUGGCCUGGUGCUGA  
((((((((((...(((.&.....)))))))).))))). -  
24.10

miRNA: mir-29b  
Human predicted target: ENSG00000185185  
Mouse predicted target: ENSMUSG00000051510  
Rat predicted target: ENSRNOG00000007245  
Hs Gene description: TRANSCRIPTION FACTOR MAFG (V-MAF MUSCULOAPONEUROTIC  
FIBROSARCOMA ONCOGENE HOMOLOG G) (HMAF). [Source:SWISSPROT;Acc:O15525]  
NM\_002359

mir-29b ENSG00000185185 3037 nt UTR 4 hits 285 544 1199 1706  
-----1-----1-----1-----1-----

>ENSG00000185185 hs-mir-29b 285 292  
UAGCACCAUUUGAAAUCAGUGUU&UUGUACCAGGGCCAUGCAGGCUUGGAGUCCAGAGUUGGUGCUGU  
((((((((((...(((.&.....)))))))).))))). -  
19.90

>ENSG00000185185 hs-mir-29b 544 551  
UAGCACCAUUUGAAAUCAGUGUU&AGGCCUGAUGGGUGGACCACCAGCCUGGGCGCAGUGGUGCUGG  
((((((((((...(((.&.....)))))))).))))). -  
24.40

>ENSG00000185185 hs-mir-29b 1199 1206  
UAGCACCAUUUGAAAUCAGUGUU&CGUGCCUGGUGAGUUUUGUGCAGCGGUAAGUGCUGGUGCUU  
((((((((((...(((.&.....)))))))).))))). -16.71

>ENSG00000185185 hs-mir-29b 1706 1713  
UAGCACCAUUUGAAAUCAGUGUU&CCCUCUUGAUUCCUGAGGUGUUUCCAUGCUGCGGGUGGUGCUU  
((((((((((...(((.&.....)))))))).))))). -22.90

mir-29b ENSMUSG00000051510 2329 nt UTR 2 hits 511 1104  
-----1-----1-----

>ENSMUSG00000051510 hs-mir-29b 511 518  
UAGCACCAUUUGAAAUCAGUGUU&AUAGGCCACCAGCCUGGGCACUGGGGCAGGAACCAUGGUGCUGG  
((((((((((...(((.&.....)))))))).))))). -  
27.40

>ENSMUSG00000051510 hs-mir-29b 1104 1111  
UAGCACCAUUUGAAAUCAGUGUU&CGUGCCUGGUGAGGUUUUGUGCAGCCGUAAGUGCUGGUGCUU  
.((((((((((((((..((((((..(&...)))))))).)))))))). -16.71  
mir-29b ENSRNOG0000007245 2709 nt UTR 2 hits 500 994

-----1-----1-----  
>ENSRNOG0000007245 hs-mir-29b 500 507  
UAGCACCAUUUGAAAUCAGUGUU&AUAGGCCACCAGCCUGGGCAUUGGGGCAGGAACCAUGGUGCUGG  
((((((((((((((..((((((..(&...)))))))).)))))))). -  
25.10  
>ENSRNOG0000007245 hs-mir-29b 994 1001  
UAGCACCAUUUGAAAUCAGUGUU&CGUGCCUGGUGAGGUUUUGUGCAGCCGUAAGUGCUGGUGCUU  
.((((((((((((((..((((((..(&...)))))))).)))))))). -16.71

miRNA: mir-29c  
Human predicted target: ENSG00000067798  
Mouse predicted target: ENSMUSG00000020181  
Rat predicted target: ENSRNOG0000006682  
Hs Gene description: NEURON NAVIGATOR 3; PORE MEMBRANE AND/OR FILAMENT  
INTERACTING LIKE PROTEIN 1; STEERIN 3. [Source:RefSeq;Acc:NM\_014903]  
mir-29c ENSG00000067798 2000 nt UTR 2 hits 807 1831

-----1-----  
1-----  
>ENSG00000067798 hs-mir-29c 807 814  
UAGCACCAUUUGAAAUCGGUUA&UUGAGCCUUUCAGUGAAAGAAGGAACAUUCCUAUGGUGCUGU  
((((((((((((((..((((((..(&...)))))))).)))))))). -22.15  
>ENSG00000067798 hs-mir-29c 1831 1838  
UAGCACCAUUUGAAAUCGGUUA&GUGUGUGAAAUGUGUUACUUUUAGGACGUGUAUUUGGUGCUAC  
((((((((((((((..((((((..(&...)))))))).)))))))). -19.20  
mir-29c ENSMUSG00000020181 2000 nt UTR 3 hits 463 830 1877

-----1-----1-----  
-1-----  
>ENSMUSG00000020181 hs-mir-29c 463 470  
UAGCACCAUUUGAAAUCGGUUA&AUCCUUCUGAUCCAUGGAACUCCUUUGUGCCACAUGGUGCUGG  
((((((((((((((..((((((..(&...)))))))).)))))))). -19.20  
>ENSMUSG00000020181 hs-mir-29c 830 837  
UAGCACCAUUUGAAAUCGGUUA&UUGAGCCUUUCAGUGAAAGAAGGAACAUUUCUAUGGUGCUGU  
((((((((((((((..((((((..(&...)))))))).)))))))). -22.15  
>ENSMUSG00000020181 hs-mir-29c 1877 1884  
UAGCACCAUUUGAAAUCGGUUA&AGAUGAAGCUCUGUGCGCCUUUUAGGAGAUUCAUUGGUGCUAC  
((((((((((((((..((((((..(&...)))))))).)))))))). -21.40  
mir-29c ENSRNOG0000006682 2000 nt UTR 2 hits 821 1851

-----1-----  
1-----  
>ENSRNOG0000006682 hs-mir-29c 821 828  
UAGCACCAUUUGAAAUCGGUUA&CGAGCCUUUCAGUGAAAGAAGGAACAUUUCUAUGGUGCUGU  
((((((((((((((..((((((..(&...)))))))).)))))))). -22.40

>ENSRNOG00000006682 hs-mir-29c 1851 1858  
UAGCACCAUUUGAAAUCGGUUA&AGACAAAGCUCUGUGGCCUUUGAGGACAUGUUAUUGGUGCUAC  
((((((((((..(((.....((.&.....))))))..)))))). -18.40

miRNA: mir-29c

Human predicted target: ENSG00000072121

Mouse predicted target: ENSMUSG00000021122

Rat predicted target: ENSRNOG00000012003

mir-29c ENSG00000072121 2207 nt UTR 2 hits 1402 1936

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

>ENSG00000072121 hs-mir-29c 1402 1409  
UAGCACCAUUUGAAAUCGGUUA&GACAAACAGAAACUGGAAGCUGAAGUCAGUGUCUCUGGUGCUC  
((((((((((..(((.....((.&.....))))))..))))). -22.70

>ENSG00000072121 hs-mir-29c 1936 1943  
UAGCACCAUUUGAAAUCGGUUA&UGUCUAUCAACAUGUUUCUUGGCCUUCAUAACUUCUUGGUGCUGU  
((((((((((..(((.....((.&.....))))))..))))). -19.10

mir-29c ENSMUSG00000021122 3619 nt UTR 2 hits 954 1113

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

>ENSMUSG00000021122 hs-mir-29c 954 961  
UAGCACCAUUUGAAAUCGGUUA&UCCUCAGGGACACAGGGUGGAUACCUAAGGUGAGCUGGUGCUGA  
((((((((((..(((.....((.&.....))))))..))))). -18.90

>ENSMUSG00000021122 hs-mir-29c 1113 1120  
UAGCACCAUUUGAAAUCGGUUA&AGGCAACAGGAACUGGAAACUGAAGUCAGUGUCUCUGGUGCUU  
((((((((((..(((.....((.&.....))))))..))))). -22.70

mir-29c ENSRNOG00000012003 2000 nt UTR 2 hits 1071 1220

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

>ENSRNOG00000012003 hs-mir-29c 1071 1078  
UAGCACCAUUUGAAAUCGGUUA&UAUGAAGGGUUUACUGCUUUUCACCUGGGGUGGGUUGGUGCUC  
((((((((((..(((.....((.&.....))))))..))))). -19.40

>ENSRNOG00000012003 hs-mir-29c 1220 1227  
UAGCACCAUUUGAAAUCGGUUA&AAGGCAACAGGAACUGGAAACUGAAGUCAGUGUCUCUGGUGCUU  
((((((((((..(((.....((.&.....))))))..))))). -22.80

miRNA: mir-29c

Human predicted target: ENSG00000080573

Mouse predicted target: ENSMUSG00000004098

Rat predicted target: ENSRNOG00000020525

Hs Gene description: COLLAGEN ALPHA 3(V) CHAIN (FRAGMENTS).

[Source:SWISSPROT;Acc:P25940] NM\_015719

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

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

>ENSG00000080573 hs-mir-29c 52 59

UAGCACCAUUUGAAAUCGGUUA&AGGGACCAUGAGGGAGCCCCAGAAUGGGGUGCAUUUGGUGCUGA  
 (((((((((..((...((..((..&.....)))))))).)))).)))). -22.90  
 >ENSG00000080573 hs-mir-29c 385 392  
 UAGCACCAUUUGAAAUCGGUUA&CUCCUCACUCCUCCGUCGUCGCCCUUCACACCUUUUGGUGCUCAC  
 (((((((((..((...((..((..&.....)))))))).)))).)))). -19.20  
 >ENSG00000080573 hs-mir-29c 663 670  
 UAGCACCAUUUGAAAUCGGUUA&GACCAAGAUGUUGGGGGGGUGAAUCAGGAUCCUAAUGGUGCUGC  
 (((((((((..((...((..((..&.....)))))))).)))).)))). -20.30  
 mir-29c ENSMUSG00000004098 2000 nt UTR 3 hits 57 334 586  
 -----1-----1-----1-----  
 -----  
 >ENSMUSG00000004098 hs-mir-29c 57 64  
 UAGCACCAUUUGAAAUCGGUUA&GGAAGGAAGCUGAAGGGAGCCCCACAUGGGCUCCUUGGUGCUGA  
 (((((((((..((...((..((..&.....)))))))).)))).)))). -19.30  
 >ENSMUSG00000004098 hs-mir-29c 334 341  
 UAGCACCAUUUGAAAUCGGUUA&CCACCCUGCCUCUCCACCCUCCACCAGGCCUUUUGGUGCUAU  
 (((((((((..((...((..((..&.....)))))))).)))).)))). -18.43  
 >ENSMUSG00000004098 hs-mir-29c 586 593  
 UAGCACCAUUUGAAAUCGGUUA&GGACCAAGAUGUUGGGCAUAAAUCAGGAUCCUACAUGGUGCUGC  
 (((((((((..((...((..((..&.....)))))))).)))).)))). -20.00  
 mir-29c ENSRNOG00000020525 2786 nt UTR 3 hits 52 333 585  
 -----1-----1-----1-----  
 -----  
 >ENSRNOG00000020525 hs-mir-29c 52 59  
 UAGCACCAUUUGAAAUCGGUUA&GAAGGAAGCUAAAGGGAGCCCCAUGUGGGGCUAUGUGGUGCUGA  
 (((((((((..((...((..((..&.....)))))))).)))).)))). -19.70  
 >ENSRNOG00000020525 hs-mir-29c 333 340  
 UAGCACCAUUUGAAAUCGGUUA&CCACCCUGCCUCUCCACCCUCCACCAGGCCUUUUGGUGCUAU  
 (((((((((..((...((..((..&.....)))))))).)))).)))). -18.43  
 >ENSRNOG00000020525 hs-mir-29c 585 592  
 UAGCACCAUUUGAAAUCGGUUA&GGACCAAGAUGUUGGGCACAAAUCAGGAUCCUAAAUGGUGCUGC  
 (((((((((..((...((..((..&.....)))))))).)))).)))). -23.09

miRNA: mir-29c

Human predicted target: ENSG00000085999

Mouse predicted target: ENSMUSG00000028702

Rat predicted target: ENSRNOG00000013148

Rat predicted target: ENSRNOG00000013560

Hs Gene description: RAD54-LIKE PROTEIN; RAD54 HOMOLOG.

[Source:RefSeq;Acc:NM\_003579] NM\_003579

mir-29c ENSG00000085999 2191 nt UTR 2 hits 588 1377

-----1-----1-----  
 -----  
 >ENSG00000085999 hs-mir-29c 588 595  
 UAGCACCAUUUGAAAUCGGUUA&CGAGCAUGAGACUGUGAGGUACGGGCCCAUCACAUGGUGCUGAA  
 (((((((((..((...((..((..&.....)))))))).)))).)))). -24.20  
 >ENSG00000085999 hs-mir-29c 1377 1384



UAGCACCAUUUGAAAUCGGUUA&AAAAUUAUAGUAAAUUCUGAUGGCUGCAUUAGGACUGGUGCUGC  
(((((((((((((.....)))))))).))))). -21.60  
mir-29c ENSMUSG00000028702 4890 nt UTR 2 hits 624 1412

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

>ENSMUSG00000028702 hs-mir-29c 624 631  
UAGCACCAUUUGAAAUCGGUUA&UGAGGAUGGGCCUGUGAGGUAUGGGCCCAUCACAUGGUGCUGA  
(((((((((((((.....)))))))).))))). -23.90

>ENSMUSG00000028702 hs-mir-29c 1412 1419  
UAGCACCAUUUGAAAUCGGUUA&GAGAAAGUAGAAUAUUCAGAUGACUGAAGCAGGGGUGGUGCUGU  
(((((((((((((.....)))))))).))))). -24.60

mir-29c ENSRNOG00000013148 4613 nt UTR 4 hits 595 1373 3174 3981  
-----1-----1-----  
-----

>ENSRNOG00000013148 hs-mir-29c 595 602  
UAGCACCAUUUGAAAUCGGUUA&UGAGGAUGGGCCUGUGAGGUAUGGGCCCAUCACAUGGUGCUGA  
(((((((((((((.....)))))))).))))). -23.90

>ENSRNOG00000013148 hs-mir-29c 1373 1380  
UAGCACCAUUUGAAAUCGGUUA&GAGAAAGUAGAAUAUUCGGAUAACUGAAGCAGGGGUGGUGCUGU  
(((((((((((((.....)))))))).))))). -24.50

>ENSRNOG00000013148 hs-mir-29c 3174 3181  
UAGCACCAUUUGAAAUCGGUUA&UGAGGAUGGGCCUGUGAGGUAUGGGCCCAUCACAUGGUGCUGA  
(((((((((((((.....)))))))).))))). -23.90

>ENSRNOG00000013148 hs-mir-29c 3981 3988  
UAGCACCAUUUGAAAUCGGUUA&GAGAAAGUAGAAUAUUCGGAUAACUGAAGCAGGGGUGGUGCUGU  
(((((((((((((.....)))))))).))))). -24.50

mir-29c ENSRNOG00000013560 2000 nt UTR 2 hits 615 1422  
-----1-----1-----  
-----

>ENSRNOG00000013560 hs-mir-29c 615 622  
UAGCACCAUUUGAAAUCGGUUA&UGAGGAUGGGCCUGUGAGGUAUGGGCCCAUCACAUGGUGCUGA  
(((((((((((((.....)))))))).))))). -23.90

>ENSRNOG00000013560 hs-mir-29c 1422 1429  
UAGCACCAUUUGAAAUCGGUUA&GAGAAAGUAGAAUAUUCGGAUAACUGAAGCAGGGGUGGUGCUGU  
(((((((((((((.....)))))))).))))). -24.50

miRNA: mir-29c  
Human predicted target: ENSG00000103044  
Mouse predicted target: ENSMUSG00000031910  
Rat predicted target: ENSRNOG00000020207  
Hs Gene description: HYALURONAN SYNTHASE 3 (EC 2.4.1.212) (HYALURONATE SYNTHASE 3) (HYALURONIC ACID SYNTHASE 3) (HA SYNTHASE 3).  
[Source:SWISSPROT;Acc:O00219] NM\_138612  
mir-29c ENSG00000103044 4402 nt UTR 3 hits 560 697 1707

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

>ENSG00000103044 hs-mir-29c 560 567  
UAGCACCAUUUGAAAUCGGUUA&CUGAUCUUUGGGCAUCAGAAAACAGGGUCCAGGAAUGGUGCUU  
.((((((((((...(((.&.....))))))....)))))))). -19.90  
>ENSG00000103044 hs-mir-29c 697 704  
UAGCACCAUUUGAAAUCGGUUA&AGGAAAGUUUGCCAGGAGGAACAAAGAGAUUGUGGGUGGUCUAA  
((((((((((...(((.&.....))))))....)))))))). -23.10  
>ENSG00000103044 hs-mir-29c 1707 1714  
UAGCACCAUUUGAAAUCGGUUA&GCAAGGUGUGCUCUGAGCCACAGAUGGGCAAACCCUGGUGCUU  
.((((((((((...(((.&.....))))))....)))))))). -21.20  
mir-29c ENSMUSG00000031910 6074 nt UTR 2 hits 541 2960

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

>ENSMUSG00000031910 hs-mir-29c 541 548  
UAGCACCAUUUGAAAUCGGUUA&GCCUGACCUUUGGUCAAAAAACAGGGUCAAGAAAUGGUGCUU  
.((((((((((...(((.&.....))))))....)))))))). -19.22  
>ENSMUSG00000031910 hs-mir-29c 2960 2967  
UAGCACCAUUUGAAAUCGGUUA&UGCCUUUUCAGGACCACCUCUGCACUCUGGGUAGUGGUGCUGA  
((((((((((...(((.&.....))))))....)))))))). -20.90  
mir-29c ENSRNOG00000020207 3794 nt UTR 3 hits 430 622 3255

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

>ENSRNOG00000020207 hs-mir-29c 430 437  
UAGCACCAUUUGAAAUCGGUUA&GCCUGACCUUUGGUCAAAAAACAGGGUCAAGAAGUGGUGCUU  
.((((((((((...(((.&.....))))))....)))))))). -19.22  
>ENSRNOG00000020207 hs-mir-29c 622 629  
UAGCACCAUUUGAAAUCGGUUA&CAAAAUAGUUUGACAGGAGGAUCAAGAUGGUCGUGGUGCUAA  
((((((((((...(((.&.....))))))....)))))))). -21.10  
>ENSRNOG00000020207 hs-mir-29c 3255 3262  
UAGCACCAUUUGAAAUCGGUUA&CAGAGCCCUACCUUGUCCACUCAGAUGCCAUCUGGUGCUGU  
((((((((((...(((.&.....))))))....)))))))). -19.00

miRNA: mir-29c

Human predicted target: ENSG00000109099

Mouse predicted target: ENSMUSG00000018217

Rat predicted target: ENSRNOG00000003338

Hs Gene description: PERIPHERAL MYELIN PROTEIN 22 (PMP-22).

[Source:SWISSPROT;Acc:Q01453] NM\_153322

mir-29c ENSG00000109099 3137 nt UTR 2 hits 677 1253

-----1-----1-----  
-----  
-----  
>ENSG00000109099 hs-mir-29c 677 684

```

UAGCACCAUUUGAAAUCGGUUA&CUAAAUGAGAAAUCAGUGACAACAAGUCUUUGAAAUGGUGCUAU
(((((((((((((((((...(((&.....)))))))).)))))))). -22.40
>ENSG00000109099 hs-mir-29c 1253 1260
UAGCACCAUUUGAAAUCGGUUA&AAAGCAAAGUUGAGCUGGAGAUUUGGGUUAACAAGAUGGUGCUAA
(((((((((((((((((...(((&.....)))))))).)))))))). -22.30
mir-29c ENSMUSG00000018217 3131 nt UTR 3 hits 686 1238 1488
-----1-----1-----1-----
-----
>ENSMUSG00000018217 hs-mir-29c 686 693
UAGCACCAUUUGAAAUCGGUUA&UUAAAUGAGAAGUCAGAGACAAGCAAUCUGUGAAAUGGUGCUAU
(((((((((((((((((...(((&.....)))))))).)))))))). -21.90
>ENSMUSG00000018217 hs-mir-29c 1238 1245
UAGCACCAUUUGAAAUCGGUUA&GUGGAGAUCAUUGUGCAGUUGAUUCGGUUGCCGUCUGGUGCUAC
(((((((((((((((((...(((&.....)))))))).)))))))). -23.10
>ENSMUSG00000018217 hs-mir-29c 1488 1495
UAGCACCAUUUGAAAUCGGUUA&GAGAAAGAAGCGUGGCCUCUGAAUCACUGGCUGAAUGGUGCUU
(((((((((((((((((...(((&.....)))))))).)))))))). -21.00
mir-29c ENSRNOG00000003338 3130 nt UTR 3 hits 685 1241 1503
-----1-----1-----1-----
-----
>ENSRNOG00000003338 hs-mir-29c 685 692
UAGCACCAUUUGAAAUCGGUUA&UUAAAUGAGACGUCAGAGACAAGCAAUCUGUGAAAUGGUGCUAU
(((((((((((((((((...(((&.....)))))))).)))))))). -21.90
>ENSRNOG00000003338 hs-mir-29c 1241 1248
UAGCACCAUUUGAAAUCGGUUA&GAAGAGACCAUGGUGCAGUUUGUUCGGUUGCCGUGUGGUGCUC
(((((((((((((((((...(((&.....)))))))).)))))))). -22.70
>ENSRNOG00000003338 hs-mir-29c 1503 1510
UAGCACCAUUUGAAAUCGGUUA&UCAUGAGAAGCAUGGCCUCUGAAUCAGUGCCUGACUGGUGCUC
(((((((((((((((((...(((&.....)))))))).)))))))). -16.90

```

miRNA: mir-29c

Human predicted target: ENSG00000112078

Mouse predicted target: ENSMUSG00000005936

Rat predicted target: ENSRNOG00000000517

Hs Gene description: NM\_173562

mir-29c ENSG00000112078 5379 nt UTR 2 hits 245 1926

```

-----1-----
-----1-----
-----
>ENSG00000112078 hs-mir-29c 245 252
UAGCACCAUUUGAAAUCGGUUA&UUGCAGCAGCCUGGUAAACUUGAAAAUUGGGUCUGGUGCUGU
(((((((((((((((((...(((&.....)))))))).)))))))). -18.30
>ENSG00000112078 hs-mir-29c 1926 1933
UAGCACCAUUUGAAAUCGGUUA&CCACUACCAGUUGACUAGCCCAGAUAAUUGUAAAUGGUGCUU
(((((((((((((((((...(((&.....)))))))).)))))))). -23.90
mir-29c ENSMUSG00000005936 4607 nt UTR 3 hits 230 1243 1295

```

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

>ENSMUSG00000005936 hs-mir-29c 230 237  
UAGCACCAUUUGAAAUCGGUUA&AGCUUUACCAGCCCUGGCAAACGAGCUUUUGGGUCUGGUGCUC  
.(((((((((.(((((((&.....))))))..)))..)))..)))..)))). -17.80  
>ENSMUSG00000005936 hs-mir-29c 1243 1250

UAGCACCAUUUGAAAUCGGUUA&CUUGUGUUUGAGGCCAGGUCUGGC UUUGAUUUUGUUGGUGCUC  
(((((((((.(((((((&.....))))))..)))..)))..)))..)))). -22.50

>ENSMUSG00000005936 hs-mir-29c 1295 1302  
UAGCACCAUUUGAAAUCGGUUA&CUACCUGCAGCUGUCCAGCCCAGGCCAGGGUCAGUGGUGCUC  
.(((((((((.(((((((&.....))))))..)))..)))..)))..)))). -22.00  
mir-29c ENSRNOG0000000517 2000 nt UTR 2 hits 226 1459

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

>ENSRNOG00000000517 hs-mir-29c 226 233  
UAGCACCAUUUGAAAUCGGUUA&GCUUUACCAGCCCUGGCAAAGAAACCGUUUGGGUCUGGUGCUC  
.(((((((((.(((((((&.....))))))..)))..)))..)))..)))). -22.20  
>ENSRNOG00000000517 hs-mir-29c 1459 1466

UAGCACCAUUUGAAAUCGGUUA&UUGGCUCGGUCGAGGCCAGGUCUGGUGACUUUGUUGGUGCUC  
(((((((((.(((((((&.....))))))..)))..)))..)))..)))). -20.14

miRNA: mir-29c

Human predicted target: ENSG00000113761

Mouse predicted target: ENSMUSG00000021481

Rat predicted target: ENSRNOG00000016867

Hs Gene description: DOUBLE-STRANDED RNA-BINDING ZINC FINGER PROTEIN JAZ.

[Source:RefSeq;Acc:NM\_012279] NM\_012279

mir-29c ENSG00000113761 2000 nt UTR 2 hits 642 930

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

>ENSG00000113761 hs-mir-29c 642 649  
UAGCACCAUUUGAAAUCGGUUA&UUGC UACCCCGCUGCCCCUCCACAGUCCUGAAUGGUGC UAA  
(((((((((.(((((((&.....))))))..)))..)))..)))..)))). -20.50  
>ENSG00000113761 hs-mir-29c 930 937

UAGCACCAUUUGAAAUCGGUUA&CCCUUGUGCAGCGACCACUUGCCAGUUGCUGUGGUGC UAG  
(((((((((.(((((((&.....))))))..)))..)))..)))..)))). -21.40  
mir-29c ENSMUSG00000021481 4422 nt UTR 2 hits 528 760

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

>ENSMUSG00000021481 hs-mir-29c 528 535  
UAGCACCAUUUGAAAUCGGUUA&CAUCUCCGCUGCCUGCUGUCUCUCCAGUUC CUCGUGGUGC UAG  
(((((((((.(((((((&.....))))))..)))..)))..)))..)))). -19.90  
>ENSMUSG00000021481 hs-mir-29c 760 767

UAGCACCAUUUGAAAUCGGUUA&GCCCUUGUGUAGUGGGCGAUC CUACCAGUUGCUGUGGUGC UAU  
(((((((((.(((((((&.....))))))..)))..)))..)))..)))). -21.10

mir-29c ENSRNOG00000016867 2000 nt UTR 2 hits 496 762  
-----1-----1-----  
-----  
>ENSRNOG00000016867 hs-mir-29c 496 503  
UAGCACCAUUUGAAAUCGGUUA&UGCCAUCUCUGCUGCCUGUCUCUCCAGUUCCCGAGUGGUGCUAG  
(((((((((((...(((...&.....)))))))).)))). -24.20  
>ENSRNOG00000016867 hs-mir-29c 762 769  
UAGCACCAUUUGAAAUCGGUUA&CUCUUGUGUAGUAGGCUAUCCACCCUGUUUGCUGUGGUGCUAU  
(((((((((((...(((...&.....)))))))).)))). -21.60

miRNA: mir-29c  
Human predicted target: ENSG00000114270  
Mouse predicted target: ENSMUSG00000025650  
Rat predicted target: ENSRNOG00000020579  
Hs Gene description: COLLAGEN ALPHA 1(VII) CHAIN PRECURSOR (LONG-CHAIN COLLAGEN) (LC COLLAGEN). [Source:SWISSPROT;Acc:Q02388]  
mir-29c ENSG00000114270 2000 nt UTR 2 hits 452 665  
-----1-----1-----  
-----  
>ENSG00000114270 hs-mir-29c 452 459  
UAGCACCAUUUGAAAUCGGUUA&UCGGGGUCUCAGCAGAACCCACUGUCCCUCCCUUGGUGCUAG  
(((((((((((...(((...(((...&.....)))))))).)))).)))). -19.40  
>ENSG00000114270 hs-mir-29c 665 672  
UAGCACCAUUUGAAAUCGGUUA&UCUGACCCGCCCUUGACCCAAGCCUGUGAUGACAUGGUGCUGA  
(((((((((((...(((...(((...&.....)))))))).)))).)))). -21.40  
mir-29c ENSMUSG00000025650 2363 nt UTR 2 hits 83 315

---1-----1-----  
-----  
>ENSMUSG00000025650 hs-mir-29c 83 90  
UAGCACCAUUUGAAAUCGGUUA&GGCAGGGUCUCAGCCGGGUCCUGCUGUGCUCAUUUGGUGCUAG  
(((((((((((...(((...(((...&.....)))))))).)))).)))). -23.43  
>ENSMUSG00000025650 hs-mir-29c 315 322  
UAGCACCAUUUGAAAUCGGUUA&UCCAACCUGCCCCUUGACCCGAGGCUGUGAUACCAUGGUGCUGA  
(((((((((((...(((...(((...&.....)))))))).)))).)))). -21.74  
mir-29c ENSRNOG00000020579 2000 nt UTR 2 hits 497 707  
-----1-----1-----  
-----  
>ENSRNOG00000020579 hs-mir-29c 497 504  
UAGCACCAUUUGAAAUCGGUUA&UGGCAGGUCUCAGCCGGGUCCUGCUAUCCUCCAUUUGGUGCUAG  
(((((((((((...(((...(((...&.....)))))))).)))).)))). -23.43  
>ENSRNOG00000020579 hs-mir-29c 707 714  
UAGCACCAUUUGAAAUCGGUUA&UCCAACCUGCCCCUUGACCCAAGGCUGUGAUACCAUGGUGCUGA  
(((((((((((...(((...(((...&.....)))))))).)))).)))). -21.74

miRNA: mir-29c  
Human predicted target: ENSG00000126603

Mouse predicted target: ENSMUSG00000014303  
Rat predicted target: ENSRNOG00000004766  
Hs Gene description: KRUPPEL-LIKE ZINC FINGER PROTEIN GLIS2.  
[Source:RefSeq;Acc:NM\_032575] NM\_032575

mir-29c ENSG00000126603 2277 nt UTR 2 hits 136 1261  
-----1-----1-----  
-----  
>ENSG00000126603 hs-mir-29c 136 143  
UAGCACCAUUUGAAAUCGGUUA&CGGGCAGCCCCAGCCAGCCCGCCGGGAGCAAGGAUGGUGCUAG  
((((((((((((.....(((((.&.....)))))).....)))))))). -26.60  
>ENSG00000126603 hs-mir-29c 1261 1268  
UAGCACCAUUUGAAAUCGGUUA&GAGGGACCCUGGCAGGGGCCAGAACCACUUAAGGGUGGUGCUGG  
((((((((((((.....(((((.&.....)))))).....)))))))). -23.60  
mir-29c ENSMUSG00000014303 3776 nt UTR 2 hits 157 988  
-----1-----1-----

-----  
>ENSMUSG00000014303 hs-mir-29c 157 164  
UAGCACCAUUUGAAAUCGGUUA&AGCCCCAGACAAGCUGGGUGGCAAGGUGGCAAGGAUGGUGCUAG  
((((((((((((.....(((((.&.....)))))).....)))))))). -22.91  
>ENSMUSG00000014303 hs-mir-29c 988 995  
UAGCACCAUUUGAAAUCGGUUA&AGGGUUCUUUCCUGACUCUAGUUGAACCCUUUUCUUGGUGCUGC  
((((((((.....(((((.&.....)))))).....)))))))). -24.30  
mir-29c ENSRNOG00000004766 3676 nt UTR 4 hits 160 918 1723 2576  
-----1-----1-----1-----1-----

-----1-----  
>ENSRNOG00000004766 hs-mir-29c 160 167  
UAGCACCAUUUGAAAUCGGUUA&GCCCCAGGACAAGCUGGGUGGCAAGGUGGCAAGGAUGGUGCUAG  
((((((((((((.....(((((.&.....)))))).....)))))))). -22.91  
>ENSRNOG00000004766 hs-mir-29c 918 925  
UAGCACCAUUUGAAAUCGGUUA&CAUUGAGCAGGGUUCUUUCCUGACUGCCUUUUCUUGGUGCUGC  
((((((((.....(((((.&.....)))))).....)))))))). -23.30  
>ENSRNOG00000004766 hs-mir-29c 1723 1730  
UAGCACCAUUUGAAAUCGGUUA&AGCCCCAGACAAGCUGGGUGGCAAGGUGGCAAGGAUGGUGCUAG  
((((((((((((.....(((((.&.....)))))).....)))))))). -22.91  
>ENSRNOG00000004766 hs-mir-29c 2576 2583  
UAGCACCAUUUGAAAUCGGUUA&GGGUUCUUUCCUGACUUUCCAGCUGAGCCUUUUCUUGGUGCUGC  
((((((((.....(((((.&.....)))))).....)))))))). -23.30

miRNA: mir-29c  
Human predicted target: ENSG00000132510  
Mouse predicted target: ENSMUSG00000018476  
Mouse predicted target: ENSMUSG00000046383  
Rat predicted target: ENSRNOG00000010142  
mir-29c ENSG00000132510 3275 nt UTR 3 hits 744 1690 1696  
-----1-----2-----  
-----

>ENSG00000132510 hs-mir-29c 744 751  
UAGCACCAUUUGAAAUCGGUUA&CCACCCGUCGCCCCGCGGCUCAGCCGGGUUCUCAUGGUGCUC  
.((((((((((..(((..(((..&.....))))))..)))))))). -27.60  
>ENSG00000132510 hs-mir-29c 1690 1697  
UAGCACCAUUUGAAAUCGGUUA&GAAUCUGCUGGUGGCUGCCUCAAUCUUCUCCUGCUGGUGCUGG  
((((((((((..(((..(((..&.....))))))..))))))..))))))..)))))))). -21.80  
>ENSG00000132510 hs-mir-29c 1696 1703  
UAGCACCAUUUGAAAUCGGUUA&GCUGGUGGCUGCCUCAAUCUUCUCCUGCUGGUGCUGGUCUAG  
((((((((((..(((..(((..&.....))))))..))))))..))))))..)))))))). -21.67  
mir-29c ENSMUSG00000018476 2147 nt UTR 2 hits 782 1743

-----1-----1-----  
-----  
>ENSMUSG00000018476 hs-mir-29c 782 789  
UAGCACCAUUUGAAAUCGGUUA&GUCUCCGCCCGCCCCGCGGCUCAGCCGGGCUCUCAUGGUGCUC  
.((((((((((..(((..(((..&.....))))))..))))))..))))))..)))))))). -26.70  
>ENSMUSG00000018476 hs-mir-29c 1743 1750  
UAGCACCAUUUGAAAUCGGUUA&GCUGGUGGCUGUUUCAAUCUCCUCUUGCUGGCACUGGUGCUGG  
((((((((((..(((..(((..&.....))))))..))))))..))))))..)))))))). -23.07  
mir-29c ENSMUSG00000046383 2002 nt UTR 1 hits 1921

-----1-----  
--1---  
>ENSMUSG00000046383 hs-mir-29c 1921 1928  
UAGCACCAUUUGAAAUCGGUUA&UGCGCGCCGUCGCAGCGCGGGCCUACAGGGCGUGGUGGUCUAG  
((((((((((..(((..(((..&.....))))))..))))))..))))))..)))))))). -21.40  
mir-29c ENSRNOG00000010142 2000 nt UTR 2 hits 776 1729

-----1-----1-----  
-----  
>ENSRNOG00000010142 hs-mir-29c 776 783  
UAGCACCAUUUGAAAUCGGUUA&GUCUCCGCCCGCCCCGCGGCUCAGCCGGGUUCUCAUGGUGCUC  
.((((((((((..(((..(((..&.....))))))..))))))..))))))..)))))))). -27.60  
>ENSRNOG00000010142 hs-mir-29c 1729 1736  
UAGCACCAUUUGAAAUCGGUUA&GCUGGUGGCUGUUUCAAUCUCCUCUUGUUGGCGCUGGUGCUGG  
((((((((((..(((..(((..&.....))))))..))))))..))))))..)))))))). -23.07

miRNA: mir-29c  
Human predicted target: ENSG00000132780  
Mouse predicted target: ENSMUSG00000028693  
Rat predicted target: ENSRNOG00000016454  
Hs Gene description: NUCLEAR AUTOANTIGENIC SPERM PROTEIN (NASP).  
[Source:SWISSPROT;Acc:P49321] NM\_152298  
mir-29c ENSG00000132780 2000 nt UTR 2 hits 289 348  
-----1-1-----

-----  
>ENSG00000132780 hs-mir-29c 289 296  
UAGCACCAUUUGAAAUCGGUUA&GUGAUC AAGUGUGGCUGUAGGCCUUGUUUCCAAUGGUGCUAU  
((((((((((..(((..(((..&.....))))))..))))))..))))))..)))))))). -24.80  
>ENSG00000132780 hs-mir-29c 348 355

UAGCACCAUUUGAAAUCGGUUA&ACUUCACUGAACCCAGCUGUCUUGCAAACUUUCAGUGGUGCUGU  
(((((((((((((.....)))))).....)))))))). -22.20  
mir-29c ENSMUSG00000028693 2106 nt UTR 3 hits 266 325 377

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

>ENSMUSG00000028693 hs-mir-29c 266 273  
UAGCACCAUUUGAAAUCGGUUA&UGAUC AAGUGUGGCUAGAAGCCCUUCAUCUUCUACUGGUGCUAU  
(((((((((((((.....)))))).....)))))))). -19.60

>ENSMUSG00000028693 hs-mir-29c 325 332  
UAGCACCAUUUGAAAUCGGUUA&ACUUGGCUGAAAUCAAUUACUGUGUAAGCUUCAGUGGUGCUGU  
(((((((((((((.....)))))).....)))))))). -23.80

>ENSMUSG00000028693 hs-mir-29c 377 384  
UAGCACCAUUUGAAAUCGGUUA&GGGGUCUGCUAAAUAAGAACUGGUAGAAAUCAGUUUGGUGCUGA  
(((((((((((((.....)))))).....)))))))). -23.60  
mir-29c ENSRNOG00000016454 2000 nt UTR 4 hits 262 322 374 826

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

>ENSRNOG00000016454 hs-mir-29c 262 269  
UAGCACCAUUUGAAAUCGGUUA&GGAGGUGAUC AAGUUGAUC AAGGCCCUUCAUCUACUGGUGCUAU  
(((((((((((((.....)))))).....)))))))). -21.00

>ENSRNOG00000016454 hs-mir-29c 322 329  
UAGCACCAUUUGAAAUCGGUUA&AUUUGGCUGAAUUC AAUACCUUGUAAGCUUUC AUGCUGGUGCUGU  
(((((((((((((.....)))))).....)))))))). -25.06

>ENSRNOG00000016454 hs-mir-29c 374 381  
UAGCACCAUUUGAAAUCGGUUA&GGGGUCUGCUAAACAAGAACUGGUAGAAAUCAGUUUGGUGCUGA  
(((((((((((((.....)))))).....)))))))). -23.60

>ENSRNOG00000016454 hs-mir-29c 826 833  
UAGCACCAUUUGAAAUCGGUUA&GGGUGUCUAAUUGGUCAGAUUAUAAAUACCAUCUUAUGGUGCUAA  
(((((((((((((.....)))))).....)))))))). -21.30

miRNA: mir-29c

Human predicted target: ENSG00000138779  
Mouse predicted target: ENSMUSG00000040943  
Rat predicted target: ENSRNOG00000012350

mir-29c ENSG00000138779 5282 nt UTR 3 hits 447 596 1151  
-----1-----1-----1-----  
-----

-----

>ENSG00000138779 hs-mir-29c 447 454  
UAGCACCAUUUGAAAUCGGUUA&UAGUAUUACAGUGACAGGAAUCUUA AAAUACCAUCUGGUGCUGA  
(((((((((((((.....&.....)))))).....)))))))). -18.60

>ENSG00000138779 hs-mir-29c 596 603  
UAGCACCAUUUGAAAUCGGUUA&GGAAAACACUGAAUUGUUGGAUGUUCUAAGAAAUGGUGCUAA  
(((((((((((((.....&.....)))))).....)))))))). -21.79

>ENSG00000138779 hs-mir-29c 1151 1158  
UAGCACCAUUUGAAAUCGGUUA&UCAAGGGAUACGUUAGUCCACAAAACAUGUUUUCUGGUGCUC  
(((((((((((((.....&.....)))))).....)))))))). -17.80



mir-29c ENSMUSG00000040943 2877 nt UTR 4 hits 398 557 1055 1161  
-----1-----1-----1-----1-----1-----

>ENSMUSG00000040943 hs-mir-29c 398 405  
UAGCACCAUUUGAAAUCGGUUA&ACACAGCGCUGUAGUAGAGCAGUUGCAGGAUCAUCUGGUGCUGA  
((((((((((..(((..((..&.....)))))))).))))). -19.70  
>ENSMUSG00000040943 hs-mir-29c 557 564  
UAGCACCAUUUGAAAUCGGUUA&CAAACACUGAAUCUGUUUGGGUGUUAACAUAUAAAUGGUGCUC  
(((((((((((.....(((&.....)))))).))))). -22.20  
>ENSMUSG00000040943 hs-mir-29c 1055 1062  
UAGCACCAUUUGAAAUCGGUUA&GAUAUGCUAGUCCACAGAAAACAAUAACAGUUUUUGGUGCUC  
((((((((((..(((.....(((&.....)))))).))))). -17.20  
>ENSMUSG00000040943 hs-mir-29c 1161 1168  
UAGCACCAUUUGAAAUCGGUUA&AGAACGUCUGUUAUUGCAGGUGAUAAUAGCCUUGGUGCUC  
((((((((((.....(((&.....)))))).))))). -18.10  
mir-29c ENSRNOG00000012350 2000 nt UTR 2 hits 556 1107

-----1-----1-----  
-----  
>ENSRNOG00000012350 hs-mir-29c 556 563  
UAGCACCAUUUGAAAUCGGUUA&CAAACACUGAAUUUGUUUGGGUGUUAACAUAUAAAUGGUGCUC  
(((((((((((.....(((&.....)))))).))))). -22.20  
>ENSRNOG00000012350 hs-mir-29c 1107 1114  
UAGCACCAUUUGAAAUCGGUUA&GUGAAUGGAUAGGCUAGUCUACAAAACACGUUUCUGGUGCUC  
((((((((((..(((.....(((&.....)))))).))))). -19.70

miRNA: mir-29c  
Human predicted target: ENSG00000156599  
Mouse predicted target: ENSMUSG00000034075  
Rat predicted target: ENSRNOG00000006832  
Hs Gene description: ZINC FINGER DHHC DOMAIN CONTAINING PROTEIN 5 (ZINC FINGER PROTEIN 375). [Source:SWISSPROT;Acc:Q9C0B5]

mir-29c ENSG00000156599 3149 nt UTR 2 hits 588 1015  
-----1-----1-----

>ENSG00000156599 hs-mir-29c 588 595  
UAGCACCAUUUGAAAUCGGUUA&UCCAGUUACUAAACUACGGAAAUAGCAUCCUCUGGUGCUGAA  
((((((((((..(((.....(((&.....)))))).))))). -18.90  
>ENSG00000156599 hs-mir-29c 1015 1022  
UAGCACCAUUUGAAAUCGGUUA&GUCCUUGGGGUUACCCUCAGCCCACCUCACUAUGGUGCUGG  
((((((((((..(((.....(((&.....)))))).))))). -23.20  
mir-29c ENSMUSG00000034075 2000 nt UTR 2 hits 1202 1598

-----1-----1-----  
-----  
>ENSMUSG00000034075 hs-mir-29c 1202 1209  
UAGCACCAUUUGAAAUCGGUUA&UCCAGUUACCAACUAAGGAAGUAGCACUCUCUGGUGCUGAA  
((((((((((..(((.....(((&.....)))))).))))). -18.80  
>ENSMUSG00000034075 hs-mir-29c 1598 1605

UAGCACCAUUUGAAAUCGGUUA&GUCCCUUGGGGUUUACCCCUUAGCCCAUCUCAUAUGGUGCUGG  
(((((((((((((((((..(((((&.....)))))))).)))).)))).)))). -25.80  
mir-29c ENSRNOG00000006832 2000 nt UTR 2 hits 586 978

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

>ENSRNOG00000006832 hs-mir-29c 586 593  
UAGCACCAUUUGAAAUCGGUUA&UUGUCCCAGUUACCGACUGAAGAAGUAGCACCUGCUGGUGCUC  
(((((((((((((((((..(((((&.....)))))))).)))).)))).)))). -18.50

>ENSRNOG00000006832 hs-mir-29c 978 985  
UAGCACCAUUUGAAAUCGGUUA&GUCCCUUGGGGUUUACCCCUUAGCCCAUCUCAUAUGGUGCUGG  
(((((((((((((((((..(((((&.....)))))))).)))).)))).)))). -24.50

miRNA: mir-29c

Human predicted target: ENSG00000168542  
Mouse predicted target: ENSMUSG00000026043  
Mouse predicted target: ENSMUSG00000043941  
Rat predicted target: ENSRNOG00000003357  
Hs Gene description: COLLAGEN ALPHA 1(III) CHAIN PRECURSOR.  
[Source:SWISSPROT;Acc:P02461]

mir-29c ENSG00000168542 2972 nt UTR 2 hits 242 682  
-----1-----1-----  
-----

>ENSG00000168542 hs-mir-29c 242 249  
UAGCACCAUUUGAAAUCGGUUA&AUUUUUUUACCAAUCCAAUUUCAAAAUGUCUCAAUGGUGCUAU  
(((((((((((((((((..(((((&.....)))))))).)))).)))).)))). -23.10

>ENSG00000168542 hs-mir-29c 682 689  
UAGCACCAUUUGAAAUCGGUUA&ACUAAUAUUUGGGAAGGCUUUAAGACGCAUGUUAUGGUGCUAU  
(((((((((((((((((..(((((&.....)))))))).)))).)))).)))). -17.90

mir-29c ENSMUSG00000026043 2000 nt UTR 1 hits 235  
-----1-----  
-----

>ENSMUSG00000026043 hs-mir-29c 235 242  
UAGCACCAUUUGAAAUCGGUUA&AUUUUUUUACCAAUCCAAUCCAAUUCAAAUGUCUCAAUGGUGCUAU  
(((((((((((((((((..(((((&.....)))))))).)))).)))).)))). -19.46

mir-29c ENSMUSG00000043941 2095 nt UTR 2 hits 1311 1790  
-----1-----1-----  
-----

>ENSMUSG00000043941 hs-mir-29c 1311 1318  
UAGCACCAUUUGAAAUCGGUUA&ACAAACUUCUCUUUGUAGGGUGCUCGAGGCAAUGAUGGUGCUC  
(((((((((((((((((..(((((&.....)))))))).)))).)))).)))). -21.50

>ENSMUSG00000043941 hs-mir-29c 1790 1797  
UAGCACCAUUUGAAAUCGGUUA&GGCCUCCUGGAACUGCAGGAUCCUGGAUCCUGGUGCUAU  
(((((((((((((((((..(((((&.....)))))))).)))).)))).)))). -18.50

mir-29c ENSRNOG00000003357 2000 nt UTR 2 hits 1146 1861  
-----1-----  
1-----

>ENSRNOG00000003357 hs-mir-29c 1146 1153

UAGCACCAUUUGAAAUCGGUUA&ACAAACUUCUCUUUGUAGGGUGUCUCGAGGCAAUGAUGGUGCUC  
.(((((((((((((...(((...&.....)))))))).)))).)))). -21.50  
>ENSRNOG0000003357 hs-mir-29c 1861 1868  
UAGCACCAUUUGAAAUCGGUUA&GGUCCUCCUGGAACUGCAGGAUCCUGGAUCUCCUGGUGCUAA  
(((((((((((((...(((...&.....)))))))).)))).)))). -19.20

miRNA: mir-29c

Human predicted target: ENSG00000168795

Mouse predicted target: ENSMUSG00000049657

Rat predicted target: ENSRNOG00000012726

Hs Gene description: NM\_014872

mir-29c ENSG00000168795 4404 nt UTR 2 hits 569 2351

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

>ENSG00000168795 hs-mir-29c 569 576  
UAGCACCAUUUGAAAUCGGUUA&UUUUUACCUGAUUUGCAGUCAUAAACACUGCACUUUGGUGCUGA  
(((((((((((((...(((...&.....)))))))).)))).)))). -20.87  
>ENSG00000168795 hs-mir-29c 2351 2358

UAGCACCAUUUGAAAUCGGUUA&UCUAUCAAGGAGUUCUAUCAAGGCAUCCAUGUCAGUGGUGCUAU  
(((((((((((((...(((...&.....)))))))).)))).)))). -21.00  
mir-29c ENSMUSG00000049657 2218 nt UTR 3 hits 363 516 1703

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

>ENSMUSG00000049657 hs-mir-29c 363 370  
UAGCACCAUUUGAAAUCGGUUA&GCAAUGCAGAACAUACUGUGUGUAACCAGGUGACUUGGUGCUAU  
(((((((((((((...(((...&.....)))))))).)))).)))). -22.40  
>ENSMUSG00000049657 hs-mir-29c 516 523

UAGCACCAUUUGAAAUCGGUUA&GUAUCUGAGUUGCAGUCACAGGCACUGCCUCUGAUGGUGCUC  
.(((((((((((((...(((...&.....)))))))).)))).)))). -21.60  
>ENSMUSG00000049657 hs-mir-29c 1703 1710

UAGCACCAUUUGAAAUCGGUUA&AUAGACUAGCAGUUGUCCUUCUGUCUUAAGGACGUGGUGCUU  
.(((((((((((((...(((...&.....)))))))).)))).)))). -16.30  
mir-29c ENSRNOG00000012726 2171 nt UTR 3 hits 322 463 1674

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

>ENSRNOG00000012726 hs-mir-29c 322 329  
UAGCACCAUUUGAAAUCGGUUA&ACAGCCGUGCAAAGCCUAUGUGUAACCAGGUGACUUGGUGCUAU  
(((((((((((((...(((...&.....)))))))).)))).)))). -22.40  
>ENSRNOG00000012726 hs-mir-29c 463 470

UAGCACCAUUUGAAAUCGGUUA&UAUCCGAGUUGGCAGUCGCAGGCACUGCCUCCGAUGGUGCUC  
.(((((((((((((...(((...&.....)))))))).)))).)))). -21.60  
>ENSRNOG00000012726 hs-mir-29c 1674 1681

UAGCACCAUUUGAAAUCGGUUA&AUAAAGUAGCAGUUGUCCUCCUGUCUUAAGAUGGUGCUU  
.(((((((((((((...(((...&.....)))))))).)))).)))). -17.60

miRNA: mir-29c

Human predicted target: ENSG00000171044

Mouse predicted target: ENSMUSG00000035067

Rat predicted target: ENSRNOG00000011634

Hs Gene description: NM\_173683

mir-29c ENSG00000171044 3870 nt UTR 3 hits 399 1278 2207

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

>ENSG00000171044 hs-mir-29c 399 406  
UAGCACCAUUUGAAAUCGGUUA&UUUACCUUACACCAAGUGUAGAUCUUUAUGGGAUUGGUGCUGA  
(((((((((((((.(.(((.((((.&.....))))))))).....)))))))). -18.90

>ENSG00000171044 hs-mir-29c 1278 1285  
UAGCACCAUUUGAAAUCGGUUA&AAAAUUGUAAUACUGACCCAUUUCAAAGACUGUUUGGUGCUU  
.(((((((((((.(.(((.((((.&.....))))))))).....)))))))). -24.91

>ENSG00000171044 hs-mir-29c 2207 2214  
UAGCACCAUUUGAAAUCGGUUA&ACUUCUAGACUUCAUGCGUCCUUAAGCAUCGUGGUGCUGU  
(((((((((((.(.(((.((((.&.....))))))))).....)))))))). -18.50

mir-29c ENSMUSG00000035067 2224 nt UTR 2 hits 412 1293

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

>ENSMUSG00000035067 hs-mir-29c 412 419  
UAGCACCAUUUGAAAUCGGUUA&UAUACUUUACACCAAGUGUAGAUCUUUAUGGGAUUGGUGCUGA  
(((((((((((.(.(((.((((.&.....))))))))).....)))))))). -18.90

>ENSMUSG00000035067 hs-mir-29c 1293 1300  
UAGCACCAUUUGAAAUCGGUUA&AAGUCAACCAUCUUAACCGACCCAUUUCACAGACUGGUGCUU  
.(((((((((((.(.(((.((((.&.....))))))))).....)))))))). -23.80

mir-29c ENSRNOG00000011634 2241 nt UTR 2 hits 423 1290

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

>ENSRNOG00000011634 hs-mir-29c 423 430  
UAGCACCAUUUGAAAUCGGUUA&UCUACUUUACACCAAGUGUAGAUCUUUAUGGGAUUGGUGCUGA  
(((((((((((.(.(((.((((.&.....))))))))).....)))))))). -18.90

>ENSRNOG00000011634 hs-mir-29c 1290 1297  
UAGCACCAUUUGAAAUCGGUUA&AAGUCAACCAUUAUUAACCGACCCAUUUCACAGACUGGUGCUU  
.(((((((((((.(.(((.((((.&.....))))))))).....)))))))). -23.80

miRNA: mir-29c

Human predicted target: ENSG00000182067

Mouse predicted target: ENSMUSG00000029071

Rat predicted target: ENSRNOG00000019423

Hs Gene description: SEGMENT POLARITY PROTEIN DISHEVELLED HOMOLOG DVL-1  
(DISHEVELLED-1) (DSH HOMOLOG 1). [Source:SWISSPROT;Acc:O14640]

mir-29c ENSG00000182067 2868 nt UTR 2 hits 1041 1080

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

>ENSG00000182067 hs-mir-29c 1041 1048

```

UAGCACCAUUUGAAAUCGGUUA&CUGGCGUCAGAUCUGGUGGGCAGUUUUCUGUCCAUGGUGCUGG
(((((((((((((...(((((...&.....))))))....)))))))). -20.90
>ENSG00000182067 hs-mir-29c 1080 1087
UAGCACCAUUUGAAAUCGGUUA&GCUGGCUCGGGGUCCUGGUGGUCGGUGCUGGCCGUGGUGCUGG
(((((((((((((...(((((...&.....))))))....)))))))). -22.00
mir-29c ENSMUSG00000029071 2860 nt UTR 2 hits 1079 1170
-----1--1-----
-----
>ENSMUSG00000029071 hs-mir-29c 1079 1086
UAGCACCAUUUGAAAUCGGUUA&UUGUCCCUUGCCGCUUAGGCAUGUGGCUCUGUCCUGGUGCUGG
(((((((((((((...(((((...&.....))))))....)))))))). -18.70
>ENSMUSG00000029071 hs-mir-29c 1170 1177
UAGCACCAUUUGAAAUCGGUUA&UGAUUCCAGGGGUCCGCGUGGCUGGCGCUGGCCGUGGUGCUGA
(((((((((((((...(((((...&.....))))))....)))))))). -21.34
mir-29c ENSRNOG00000019423 2869 nt UTR 3 hits 1091 1171 1183
-----1--11-----
-----
>ENSRNOG00000019423 hs-mir-29c 1091 1098
UAGCACCAUUUGAAAUCGGUUA&UUGUCCCUUGCCGCUUAGUCAUGUGGCUCUGUCCUGGUGCUGG
(((((((((((((...(((((...&.....))))))....)))))))). -19.39
>ENSRNOG00000019423 hs-mir-29c 1171 1178
UAGCACCAUUUGAAAUCGGUUA&GGUACUAGAAGCUGAUUCCAGGGGUCCUGGGUGGCUGGUGCUGG
(((((((((((((...(((((...&.....))))))....)))))))). -23.91
>ENSRNOG00000019423 hs-mir-29c 1183 1190
UAGCACCAUUUGAAAUCGGUUA&UGAUUCCAGGGGUCCUGGGUGGCUGGUGCUGGCCGUGGUGCUGA
(((((((((((((...(((((...&.....))))))....)))))))). -24.00

```

```

miRNA: mir-29c
Human predicted target: ENSG00000185185
Mouse predicted target: ENSMUSG00000051510
Rat predicted target: ENSRNOG00000007245
Hs Gene description: TRANSCRIPTION FACTOR MAFG (V-MAF MUSCULOAPONEUROTIC
FIBROSARCOMA ONCOGENE HOMOLOG G) (HMAF). [Source:SWISSPROT;Acc:O15525]
NM_002359
mir-29c ENSG00000185185 3037 nt UTR 4 hits 285 544 1199 1706
-----1-----1-----1-----1-----
-----
>ENSG00000185185 hs-mir-29c 285 292
UAGCACCAUUUGAAAUCGGUUA&UUGUACCAGGGCCAUGCAGGCUUGGAGUCCAGAGUUGGUGCUGU
(((((((((((((...(((((...&.....))))))....)))))))). -19.60
>ENSG00000185185 hs-mir-29c 544 551
UAGCACCAUUUGAAAUCGGUUA&AGGCCUGAUGGGUGGACCACCAGCCUGGGCGCAGUGGUGCUGG
(((((((((((((...(((((...&.....))))))....)))))))). -23.30
>ENSG00000185185 hs-mir-29c 1199 1206
UAGCACCAUUUGAAAUCGGUUA&CGUGCCUGGUGAGGUUUUGUGCAGCGGUAAGUGCUGGUGCUU
.(((((((((((((...(((((...&.....))))))....)))))))). -16.52
>ENSG00000185185 hs-mir-29c 1706 1713

```

```

UAGCACCAUUUGAAAUCGGUUA&CCCGCUUGAUCCUGAGGUGUUUCCAUGCUGCGGGUGGUGCUU
.((((((((((((.....(((((.&.....)))))))))))))). -21.00
mir-29c   ENSMUSG00000051510   2329 nt UTR   2 hits 511 1104
-----1-----1-----
>ENSMUSG00000051510 hs-mir-29c   511   518
UAGCACCAUUUGAAAUCGGUUA&AUAGGCCACCAGCCUGGGCACUGGGGCAGGAACCAUGGUGCUGG
((((((((((((.....(((((.&.....)))))))))))))). -21.60
>ENSMUSG00000051510 hs-mir-29c   1104  1111
UAGCACCAUUUGAAAUCGGUUA&CGUGCCUGGUGAGGUUUUGUGCAGCCGUAAGUGCUGGUGCUU
.((((((((.....(((((.&.....)))))))))))))). -21.29
mir-29c   ENSRNOG00000007245   2709 nt UTR   2 hits 500 994
-----1-----1-----
>ENSRNOG00000007245 hs-mir-29c   500   507
UAGCACCAUUUGAAAUCGGUUA&AUAGGCCACCAGCCUGGGCAUUGGGGCAGGAACCAUGGUGCUGG
((((((((((((.....(((((.&.....)))))))))))))). -19.20
>ENSRNOG00000007245 hs-mir-29c   994  1001
UAGCACCAUUUGAAAUCGGUUA&CGUGCCUGGUGAGGUUUUGUGCAGCCGUAAGUGCUGGUGCUU
.((((((((.....(((((.&.....)))))))))))))). -21.29

```

miRNA: mir-30a

Human predicted target: ENSG00000058600

Mouse predicted target: ENSMUSG00000030880

Rat predicted target: ENSRNOG00000016960

Hs Gene description: DNA-DIRECTED RNA POLYMERASES III 80 KDA POLYPEPTIDE (EC 2.7.7.6) (RNA POLYMERASE III SUBUNIT 5) (RPC5).

[Source:SWISSPROT;Acc:Q9NVU0] NM\_018119

```

mir-30a   ENSG00000058600   2325 nt UTR   2 hits 378 567
-----1-----1-----

```

```

>ENSG00000058600 hs-mir-30a   378   385
UGUAAACAUCUCGACUGGAAGC&CUUUUGUAAACUUAUGCCAACAAGGUCUAAGUUAUGUUUACAA
((((((((((.....(((((.&.....)))))))))))))). -
15.90

```

```

>ENSG00000058600 hs-mir-30a   567   574
UGUAAACAUCUCGACUGGAAGC&UUUGACAACAACCUACUUUAUGUAGCAGUCUCAACUGUUUACAU
((((((((((.....(((((.&.....)))))))))))))). -
18.90

```

```

mir-30a   ENSMUSG00000030880   2714 nt UTR   2 hits 363 550
-----1-----1-----

```

```

>ENSMUSG00000030880 hs-mir-30a   363   370
UGUAAACAUCUCGACUGGAAGC&CCUCUUUUAAAUGAAUGCCAACAUAAGUUAAGAUUUGUUUACAA
((((((((((.....(((((.&.....)))))))))))))). -
15.50

```

```

>ENSMUSG00000030880 hs-mir-30a   550   557

```

UGUAAACAUCUCGACUGGAAGC&CUUUUAUAGCAGCCUGCUUUCUGUAGCGGUCUCAACUGUUUACAC  
(((((((((((((.....)))))))).)).)).). -  
19.60

mir-30a ENSRNOG00000016960 2720 nt UTR 2 hits 367 555

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

>ENSRNOG00000016960 hs-mir-30a 367 374  
UGUAAACAUCUCGACUGGAAGC&CCUCUUUAAAUGAAUGCCAACAUAAGUUAUGUUUACAA  
(((((((((((((.....)))))))).)).)).). -  
15.50

>ENSRNOG00000016960 hs-mir-30a 555 562  
UGUAAACAUCUCGACUGGAAGC&UUAUACAGCAGCCUGCUUUCUGUAGCGGUCUCAACUGUUUACAC  
(((((((((((((.....)))))))).)).)).). -  
19.60

miRNA: mir-30a

Human predicted target: ENSG00000074047

Mouse predicted target: ENSMUSG00000048402

Rat predicted target: ENSRNOG00000002430

Hs Gene description: ZINC FINGER PROTEIN GLI2 (TAX HELPER PROTEIN).

[Source:SWISSPROT;Acc:P10070] NM\_005270

mir-30a ENSG00000074047 2564 nt UTR 2 hits 771 953

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

>ENSG00000074047 hs-mir-30a 771 778  
UGUAAACAUCUCGACUGGAAGC&GCAAGCCCAGAAGCUGCCUGGCCUCUCCAGACCGUGUUUACAG  
((((((((((.....)))))))).)).). -  
18.70

>ENSG00000074047 hs-mir-30a 953 960  
UGUAAACAUCUCGACUGGAAGC&CCCUAGGGAUCUCUCAGUAGGAAGAGGAAGUUGCGUGUUUACC  
(((((((((((((.....)))))))).)).)).). -22.11

mir-30a ENSMUSG00000048402 3651 nt UTR 3 hits 695 833 1357

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

>ENSMUSG00000048402 hs-mir-30a 695 702  
UGUAAACAUCUCGACUGGAAGC&UUACUAUUGGGGGGGUACAGGGUCUCUCCUGGCCUGUUUACAG  
(((((((((((((.....)))))))).)).)).). -  
18.35

>ENSMUSG00000048402 hs-mir-30a 833 840  
UGUAAACAUCUCGACUGGAAGC&GUGGAAGAGGCCUUCUCCAGGAAAAGGAAGUCAUAUGUUUACC  
(((((((((((((.....)))))))).)).)).). -18.30

>ENSMUSG00000048402 hs-mir-30a 1357 1364  
UGUAAACAUCUCGACUGGAAGC&CUGGACCCUCUGUGUCCCAGGGCAGCAAACUUCUCUGUUUACAA  
(((((((((((((.....)))))))).)).)).). -  
16.91

mir-30a ENSRNOG00000002430 2000 nt UTR 3 hits 657 794 1301

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

>ENSRNOG00000002430 hs-mir-30a 657 664  
UGUAAACAUCUCGACUGGAAGC&AUUUUUUACUAUGGGGGUGGGGGGCUCUCCUGGCCUGUUUACAG  
(((((((((((((((((.....&.....)))))).....)))))).....))))). -  
20.30  
>ENSRNOG00000002430 hs-mir-30a 794 801  
UGUAAACAUCUCGACUGGAAGC&GUGAAAGAGGCCUUCCCCAGGCAAAGGAGGCCGUGUGUUUACC  
(((((((((((((((((.....&.....)))))).....)))))).....))))). -21.20  
>ENSRNOG00000002430 hs-mir-30a 1301 1308  
UGUAAACAUCUCGACUGGAAGC&CUGGACCCCUGUGUCCCGGGCAGCAAACUUCUCUGUUUACAA  
(((((((((((((((((.....&.....)))))).....)))))).....))))). -  
18.04

miRNA: mir-30a  
Human predicted target: ENSG00000090905  
Mouse predicted target: ENSMUSG00000030776  
Rat predicted target: ENSRNOG00000012884  
Hs Gene description: TRINUCLEOTIDE REPEAT CONTAINING 6; EDIE; GW182  
AUTOANTIGEN. [Source:RefSeq;Acc:NM\_020847]  
mir-30a ENSG00000090905 2979 nt UTR 4 hits 455 746 786 1552

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

>ENSG00000090905 hs-mir-30a 455 462  
UGUAAACAUCUCGACUGGAAGC&AUCGGCAGUAUGGGGGGCAGCUGUCCAGUGUCA AUGUUUACU  
(((((((((((((((((.....&.....)))))).....)))))).....))))). -21.30  
>ENSG00000090905 hs-mir-30a 746 753  
UGUAAACAUCUCGACUGGAAGC&CAUUUUUGUUUGGAGGUUCACUUUGAACCUUCUUGUUUACAG  
(((((((((((((((((.....&.....)))))).....)))))).....))))). -  
15.75  
>ENSG00000090905 hs-mir-30a 786 793  
UGUAAACAUCUCGACUGGAAGC&ACAGAUUUUUUGUUUGUUUUUGAGAAAAAAAAAUGUUUACU  
(((((((((((((((((.....&.....)))))).....)))))).....))))). -14.40  
>ENSG00000090905 hs-mir-30a 1552 1559  
UGUAAACAUCUCGACUGGAAGC&GUCCUAAGAUGCAAAGAAGUCAGUGGCUUUUUACUGUUUACAA  
(((((((((((((((((.....&.....)))))).....)))))).....))))). -  
15.10  
mir-30a ENSMUSG00000030776 2445 nt UTR 4 hits 78 366 405 1165

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

>ENSMUSG00000030776 hs-mir-30a 78 85  
UGUAAACAUCUCGACUGGAAGC&AAUCGGCAAUAUGGGGGCAGCUGUCCAGUGUAGAUGUUUACU  
(((((((((((((((((.....&.....)))))).....)))))).....))))). -26.80  
>ENSMUSG00000030776 hs-mir-30a 366 373  
UGUAAACAUCUCGACUGGAAGC&CAUGUUGUUUGAAGGUUCCACGGUGAACCUUCUUGUUUACAG  
(((((((((((((((((.....&.....)))))).....)))))).....))))). -  
17.11



```

>ENSMUSG00000030776 hs-mir-30a      405      412
UGUAAACAUCCUCGACUGGAAGC&UACAGAUUUUUUUGUUUUUUUGAGAAAAAAAUGUUUACU
.((((((((((..((((&.....))))).))))).....))))). -14.50
>ENSMUSG00000030776 hs-mir-30a     1165     1172
UGUAAACAUCCUCGACUGGAAGC&GUCCUAAGAUGCAAAGAGGUCAGUGGCUUUUAACUGUUUACAA
((((((((((..((((&.....))))).))))).....))))). -
15.10
mir-30a      ENSRNOG00000012884  4340 nt UTR      4 hits 449 736 774 1526
-----1-----11-----1-----
-----
>ENSRNOG00000012884 hs-mir-30a     449      456
UGUAAACAUCCUCGACUGGAAGC&UCUCUCGUCUGGGGGACAGCUGCUCCAGUGUAAAUGUUUACU
.((((((((((..((((&.....))))).))))).....))))). -22.00
>ENSRNOG00000012884 hs-mir-30a     736      743
UGUAAACAUCCUCGACUGGAAGC&CAUGUUGUUUUUGAAGGUUCCACGGUGAACCUUCUUGUUUACAG
((((((((((..((((&.....))))).))))).....))))). -
17.11
>ENSRNOG00000012884 hs-mir-30a     774      781
UGUAAACAUCCUCGACUGGAAGC&UUACAGAUUUUUUGUUUUUUUGAGAAAAAAAUGUUUACU
.((((((((((..((((&.....))))).))))).....))))). -14.50
>ENSRNOG00000012884 hs-mir-30a    1526     1533
UGUAAACAUCCUCGACUGGAAGC&GUCCUAAGACGCAAAGAGGUCAGUGGCUUUUAACUGUUUACAA
((((((((((..((((&.....))))).))))).....))))). -
15.40

```

miRNA: mir-30a

Human predicted target: ENSG00000109689

Mouse predicted target: ENSMUSG00000039156

Rat predicted target: ENSRNOG00000002956

Hs Gene description: STROMAL INTERACTION MOLECULE 2 PRECURSOR.

[Source:SWISSPROT;Acc:Q9P246] NM\_020860

```

mir-30a      ENSG00000109689  4385 nt UTR      2 hits 371 881
-----1-----1-----
-----

```

```

>ENSG00000109689 hs-mir-30a      371      378
UGUAAACAUCCUCGACUGGAAGC&GACUCGUAAGCCAGCAUGGGCUUGCAAAAUUUCUUGUUUACC
.((((((((((..((((&.....))))).))))).....))))). -16.06
>ENSG00000109689 hs-mir-30a      881      888
UGUAAACAUCCUCGACUGGAAGC&AAGCCGAGGUGGGGGGAUAUGGGGAUUCAGGCAAUUGUUUACAC
((((((((((..((((&..))..))))).))))).....))))). -
20.10
mir-30a      ENSMUSG00000039156  2000 nt UTR      2 hits 365 868
-----1-----1-----
-----
>ENSMUSG00000039156 hs-mir-30a     365      372

```

UGUAAACAUCUCGACUGGAAGC&GGACUGUAAGCCAGCAUGGGCUUGCAAAAUUUUCUUGUUUACC  
.((((((((((..(((((..((&.....))..))))).)))).).....)))). -15.76  
>ENSMUSG00000039156 hs-mir-30a 868 875  
UGUAAACAUCUCGACUGGAAGC&UAAACUGCGGUCUGGGGCGUGGGGACCCAGGCACUUGUUUACAG  
((((((((((((((..(((((..((&.....))..))))).)))).).....)))). -  
23.80  
mir-30a ENSRNOG00000002956 2000 nt UTR 2 hits 362 866

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

>ENSRNOG00000002956 hs-mir-30a 362 369  
UGUAAACAUCUCGACUGGAAGC&GGACUGUAAGCCAGCAUGGGCUUGCACA AUUUUCUUGUUUACC  
.((((((((((..(((((..((&.....))..))))).)))).).....)))). -15.76  
>ENSRNOG00000002956 hs-mir-30a 866 873  
UGUAAACAUCUCGACUGGAAGC&UAAACUGAGGUUGGGGGUGUGGGGAUUCAGGCACUUGUUUACAG  
((((((((((((((..(((((..((&.....))..))))).)))).).....)))). -  
22.36

miRNA: mir-30a

Human predicted target: ENSG00000113615

Mouse predicted target: ENSMUSG00000036391

Rat predicted target: ENSRNOG00000004563

Hs Gene description: PROTEIN TRANSPORT PROTEIN SEC24A (SEC24-RELATED  
PROTEIN A) (FRAGMENT). [Source:SWISSPROT;Acc:O95486]

mir-30a ENSG00000113615 4729 nt UTR 2 hits 1157 1337

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

>ENSG00000113615 hs-mir-30a 1157 1164  
UGUAAACAUCUCGACUGGAAGC&GAGAAAUUAUUAUAGUCAAAACUAUUGAGUGAAU UUUGUUUACAA  
((((((((((((((..(((((..((.....&.....))..))))).)))).).....)))). -  
18.50

>ENSG00000113615 hs-mir-30a 1337 1344  
UGUAAACAUCUCGACUGGAAGC&UUGGGUUUUUUGUUUUGUUUUA AUGGGUUAGAAAUGUUUACAA  
((((((((((((((..(((((..(((((&.....))..))))).)))).).....)))). -  
18.20

mir-30a ENSMUSG00000036391 2000 nt UTR 2 hits 1101 1276

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

>ENSMUSG00000036391 hs-mir-30a 1101 1108  
UGUAAACAUCUCGACUGGAAGC&AGAGAACUAUUAACAGUCAAAACUAUCAGAUGGCUUUUGUUUACAA  
((((((((((((((..(((((..((.....&.....))..))))).)))).).....)))). -  
18.50

>ENSMUSG00000036391 hs-mir-30a 1276 1283  
UGUAAACAUCUCGACUGGAAGC&UUUUUUUUGUUUUUGUUUUC AUAGAUUAGAAAUGUUUACAA  
((((((((((((((..(((((..(((((&.....))..))))).)))).).....)))). -  
16.90

mir-30a ENSRNOG00000004563 4249 nt UTR 4 hits 940 1105 3356 3521

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

>ENSRNOG00000004563 hs-mir-30a 940 947  
UGUAAACAUCCUCGACUGGAAGC&UCAGUUAGAUUACAGUCAAAACUAUCAGAUGGCUUUUGUUUACAA  
(((((((((((((.....&.....)))))).....))))). -  
18.50

>ENSRNOG00000004563 hs-mir-30a 1105 1112  
UGUAAACAUCCUCGACUGGAAGC&UUUUUUCUGUUUUUUGUUUUCAUAGAUUAGAAACGUGUUUACAG  
(((((((((((((.....&.....)))))).....))))). -  
16.90

>ENSRNOG00000004563 hs-mir-30a 3356 3363  
UGUAAACAUCCUCGACUGGAAGC&UCAGUUAGAUUACAGUCAAAACUAUCAGAUGGCUUUUGUUUACAA  
(((((((((((((.....&.....)))))).....))))). -  
18.50

>ENSRNOG00000004563 hs-mir-30a 3521 3528  
UGUAAACAUCCUCGACUGGAAGC&UUUUUUCUGUUUUUUGUUUUCAUAGAUUAGAAACGUGUUUACAG  
(((((((((((((.....&.....)))))).....))))). -  
16.90

miRNA: mir-30a

Human predicted target: ENSG00000114353

Mouse predicted target: ENSMUSG00000032562

Rat predicted target: ENSRNOG00000016592

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-30a ENSG00000114353 2567 nt UTR 2 hits 405 682

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

>ENSG00000114353 hs-mir-30a 405 412  
UGUAAACAUCCUCGACUGGAAGC&CCCAACACCAGCCCUGCCCAGCCCAAGUCCAAAUGUUUACAG  
(((((((((((((.....&.....)))))).....))))). -  
18.80

>ENSG00000114353 hs-mir-30a 682 689  
UGUAAACAUCCUCGACUGGAAGC&CUUCCAAGUGACUCCGUGCCUUGAGUGUGUCUGCGUGUUUACAC  
(((((((((((((.....&.....)))))).....))))). -  
19.84

mir-30a ENSMUSG00000032562 2992 nt UTR 4 hits 398 683 1880 2165

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

>ENSMUSG00000032562 hs-mir-30a 398 405  
UGUAAACAUCCUCGACUGGAAGC&GCUUUGUCCAACACCAGCCCUGACCCAAAGUCCAAAUGUUUACAG  
(((((((((((((.....&.....)))))).....))))). -  
18.25

>ENSMUSG00000032562 hs-mir-30a 683 690  
UGUAAACAUCCUCGACUGGAAGC&CUUCCAGCGAUUCCGUGCCUUGAGUGUGUCUGCGUGUUUACAC

```

(((((((((((((.....)))))))))))). -
21.69
>ENSMUSG00000032562 hs-mir-30a 1880 1887
UGUAAACAUCUCGACUGGAAGC&GCUUUGUCCAACACCAGCCCUGACCCAAGUCCAAAUGUUUACAG
((((((((((.....)))))))))). -
18.25
>ENSMUSG00000032562 hs-mir-30a 2165 2172
UGUAAACAUCUCGACUGGAAGC&CUUUCAGCGAUUCCGUGCCUUGAGUGUGUCUGCGUGUUUACAC
((((((((((.....)))))))))). -
21.69
mir-30a ENSRNOG00000016592 2294 nt UTR 2 hits 1202 1486
-----1-----1-----
-----
>ENSRNOG00000016592 hs-mir-30a 1202 1209
UGUAAACAUCUCGACUGGAAGC&GCUUUGUCCAACACCAGCCCUGACCCAAGUCCAAAUGUUUACAG
((((((((((.....)))))))))). -
18.25
>ENSRNOG00000016592 hs-mir-30a 1486 1493
UGUAAACAUCUCGACUGGAAGC&CUUUCAGUGAUUCCGUGCCUUGAGUGUUUCUGCCUGUUUACAC
((((((((((.....)))))))))). -
19.30

```

```

miRNA: mir-30a
Human predicted target: ENSG00000116128
Mouse predicted target: ENSMUSG00000038256
Mouse predicted target: ENSMUSG00000046063
Rat predicted target: ENSRNOG00000017516
Rat predicted target: ENSRNOG00000017541
Hs Gene description: B-CELL LYMPHOMA 9 PROTEIN (BCL-9) (LEGLSS HOMOLOG).
[Source:SWISSPROT;Acc:O00512] NM_004326
mir-30a ENSG00000116128 2000 nt UTR 2 hits 329 486
-----1-----1-----
-----

```

```

>ENSG00000116128 hs-mir-30a 329 336
UGUAAACAUCUCGACUGGAAGC&AUUGCCAUCGGUCAUGUGUUGCACCGUUCUCUGUAUGUUUACGU
((((((((((.....)))))))))). -
16.60
>ENSG00000116128 hs-mir-30a 486 493
UGUAAACAUCUCGACUGGAAGC&GUCUUUGGGGCAAGAGGAGAACAGGAAUGCUGGGCUGUUUACU
.((((((((((.....))))))))). -21.02
mir-30a ENSMUSG00000038256 3200 nt UTR 2 hits 322 490
-----1-----1-----
-----

```

```

>ENSMUSG00000038256 hs-mir-30a 322 329
UGUAAACAUCUCGACUGGAAGC&GAGAAUUGCCAUCGGUCAUGUGUUGCACCGUUCUGUGUUUACGU
((((((((((.....)))))))))). -
16.70

```

>ENSMUSG00000038256 hs-mir-30a 490 497  
UGUAAACAUCUCGACUGGAAGC&GUCUUUGGGGCAAGAGGAGAACAGGAAUGCUGGGCUGUUUACU  
.((((((((((((((..(((((.&..)))..))....)))))).....)))))))). -21.02  
mir-30a ENSMUSG00000046063 2001 nt UTR 1 hits 1378

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

>ENSMUSG00000046063 hs-mir-30a 1378 1385  
UGUAAACAUCUCGACUGGAAGC&GAGCUGGUACAAGGCAAAGCAGGAGCAUUGUAAAGUGUUUACU  
.((((((((((((((..(((((.&..)))..))....)))))).....)))))))). -16.65  
mir-30a ENSRNOG00000017516 2000 nt UTR 2 hits 327 543

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

>ENSRNOG00000017516 hs-mir-30a 327 334  
UGUAAACAUCUCGACUGGAAGC&GAUUCGCCAUCGGUCAUGUCUUGCACCGUUCUCUGUGUUUACGU  
((((((((((((((..(((((.&..)))..))....)))))).....)))))))). -  
16.80

>ENSRNOG00000017516 hs-mir-30a 543 550  
UGUAAACAUCUCGACUGGAAGC&GUCUUUGGGGCAAGAGGAGAACAGGAAUGCUGGGCUGUUUACU  
.((((((((((((((..(((((.&..)))..))....)))))).....)))))))). -21.02  
mir-30a ENSRNOG00000017541 2573 nt UTR 1 hits 2172

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

>ENSRNOG00000017541 hs-mir-30a 2172 2179  
UGUAAACAUCUCGACUGGAAGC&AUUAUUUCAAGUUGUUGGAUGAUGCAAUGAGUUUUGUUUACC  
.((((((((((((((..(((((.&..)))..))....)))))).....)))))))). -18.66

miRNA: mir-30a  
Human predicted target: ENSG00000131914  
Mouse predicted target: ENSMUSG00000050966  
Rat predicted target: ENSRNOG00000015384  
Hs Gene description: RNA-BINDING PROTEIN LIN-28.  
[Source:RefSeq;Acc:NM\_024674] NM\_024674

mir-30a ENSG00000131914 4115 nt UTR 2 hits 1703 2958  
-----1-----  
-----1-----  
-----

>ENSG00000131914 hs-mir-30a 1703 1710  
UGUAAACAUCUCGACUGGAAGC&AUGUAUUGGUCUUUCUCCGUGUUCUUUGGGGGUUUUGUUUACAA  
((((((((((((((..(((((.&..)))..))....)))))).....)))))))). -  
21.70

>ENSG00000131914 hs-mir-30a 2958 2965  
UGUAAACAUCUCGACUGGAAGC&GAUUGUUUAAUAGGAGACGAACGAAUGUAACUCCAUGUUUACU  
.((((((((((((((..(((((.&..)))..))....)))))).....)))))))). -12.96  
mir-30a ENSMUSG00000050966 4775 nt UTR 2 hits 1780 2473

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

>ENSMUSG00000050966 hs-mir-30a 1780 1787  
UGUAAACAUCUCGACUGGAAGC&AAUGUGUUGGUCUUCAUGUUCUUUUGGGGUUUUAUUGUUUACAA  
(((((((((((((.....&.....))))))))).....))))). -  
20.70  
>ENSMUSG00000050966 hs-mir-30a 2473 2480  
UGUAAACAUCUCGACUGGAAGC&AGAUUGUACUAGGAGACGGACGAAUGUAUCUCCAUGUUUACU  
(((((((((((((.....&.....))))))))).....))))). -19.03  
mir-30a ENSRNOG00000015384 2000 nt UTR 2 hits 1306 1974

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

>ENSRNOG00000015384 hs-mir-30a 1306 1313  
UGUAAACAUCUCGACUGGAAGC&AAUGUGUUGGUCUUCAUGUUCUUUUGGGGUUUUAUUGUUUACAA  
(((((((((((((.....&.....))))))))).....))))). -  
20.70  
>ENSRNOG00000015384 hs-mir-30a 1974 1981  
UGUAAACAUCUCGACUGGAAGC&AGAUUGUACUAGGAGACGGACGAAUGUAUCUCCAUGUUUACU  
(((((((((((((.....&.....))))))))).....))))). -19.03

miRNA: mir-30a  
Human predicted target: ENSG00000132130  
Mouse predicted target: ENSMUSG00000018698  
Rat predicted target: ENSRNOG00000002812  
Hs Gene description: LIM/HOMEBOX PROTEIN LHX1 (HOMEBOX PROTEIN LIM-1).  
[Source:SWISSPROT;Acc:P48742] NM\_005568  
mir-30a ENSG00000132130 2000 nt UTR 2 hits 845 1028

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

>ENSG00000132130 hs-mir-30a 845 852  
UGUAAACAUCUCGACUGGAAGC&AAAAAAAAAAGACUAUUGAACUAAAAACAGUCAACUGUUUACGU  
(((((((((((((.....&.....))))))))).....))))). -  
17.70  
>ENSG00000132130 hs-mir-30a 1028 1035  
UGUAAACAUCUCGACUGGAAGC&CUUUCGGCUCACUGUGCUAGUAUGUAAAAAGGUGUUGUUUACAC  
(((((((((((((.....&.....))))))))).....))))). -  
18.65  
mir-30a ENSMUSG00000018698 2170 nt UTR 2 hits 938 1119

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

>ENSMUSG00000018698 hs-mir-30a 938 945  
UGUAAACAUCUCGACUGGAAGC&AAAAAGAAAAGACUAUCGAACUAAAAACAGUCAACUGUUUACGU  
(((((((((((((.....&.....))))))))).....))))). -  
17.70  
>ENSMUSG00000018698 hs-mir-30a 1119 1126  
UGUAAACAUCUCGACUGGAAGC&CUUGC GG CUCACUGUGCUAGUAUGUAAAAAGGUGUUGUUUACAC  
(((((((((((((.....&.....))))))))).....))))). -  
18.70  
mir-30a ENSRNOG00000002812 2086 nt UTR 2 hits 943 1126

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

-----

>ENSRNOG00000002812 hs-mir-30a 943 950  
UGUAAACAUCUCGACUGGAAGC&AAAAAAAAAAGACUAUUGAACUAAAAACAGUCAACUGUUUACGU  
((((((((.....((((.....&.....)))))).....))))). -  
17.70

>ENSRNOG00000002812 hs-mir-30a 1126 1133  
UGUAAACAUCUCGACUGGAAGC&CUUGCGGCUCACUGUGCUAGUAUGUAAAAAGGUGUUGUUUACAC  
((((((((.....((((.....&.....)))))).....))))). -  
18.70

miRNA: mir-30a  
Human predicted target: ENSG00000144580  
Mouse predicted target: ENSMUSG00000026174  
Rat predicted target: ENSRNOG00000016034  
Hs Gene description: RCD1 REQUIRED FOR CELL DIFFERENTIATION1 HOMOLOG;  
PROTEIN INVOLVED IN SEXUAL DEVELOPMENT; RCD1 (REQUIRED FOR CELL  
DIFFERENTIATION, S.POMBE) HOMOLOG 1. [Source:RefSeq;Acc:NM\_005444]  
mir-30a ENSG00000144580 2000 nt UTR 2 hits 464 557

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

-----

>ENSG00000144580 hs-mir-30a 464 471  
UGUAAACAUCUCGACUGGAAGC&ACUCAAGAUUUGUCUCUUCUUCUCUCAGUAUUUGUUUACU  
((((((((.....((((.....&.....)))))).....))))). -17.40

>ENSMUSG00000144580 hs-mir-30a 557 564  
UGUAAACAUCUCGACUGGAAGC&GCUGUAAUUAUCAGCAAACUUUGUCGACUGGCACUGUUUACAA  
((((((((.....((((.....&.....)))))).....))))). -  
19.90

mir-30a ENSMUSG00000026174 3987 nt UTR 2 hits 453 548

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

-----

>ENSMUSG00000026174 hs-mir-30a 453 460  
UGUAAACAUCUCGACUGGAAGC&UUAAGGUGUGUCUCUUAUUCUCUCUACAGUAUUUGUUUACU  
((((((((.....((((.....&.....)))))).....))))). -16.10

>ENSMUSG00000026174 hs-mir-30a 548 555  
UGUAAACAUCUCGACUGGAAGC&GCUGUAGUUCUCAGCAAACUUUGUCAGUUGGCACUGUUUACAA  
((((((((.....((((.....&.....)))))).....))))). -  
20.65

mir-30a ENSRNOG00000016034 2004 nt UTR 2 hits 479 574

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

-----

>ENSRNOG00000016034 hs-mir-30a 479 486  
UGUAAACAUCUCGACUGGAAGC&AAGGUGUGUCUCUUAUUCUCUCUCACACAGUAUUUGUUUACU  
((((((((.....((((.....&.....)))))).....))))). -15.50

>ENSRNOG00000016034 hs-mir-30a 574 581  
UGUAAACAUCUCGACUGGAAGC&GCUGUAGUUUUCAGCAAACUUUGUCAGUUGGCACUGUUUACAC

((((((((...(((((((...)))))))))...))))))... -  
20.35

miRNA: mir-30a

Human predicted target: ENSG00000172819

Mouse predicted target: ENSMUSG00000001288

Rat predicted target: ENSRNOG00000012499

Hs Gene description: RETINOIC ACID RECEPTOR GAMMA-1 (RAR-GAMMA-1).

[Source:SWISSPROT;Acc:P13631]

mir-30a ENSG00000172819 3107 nt UTR 2 hits 855 1028

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

>ENSG00000172819 hs-mir-30a 855 862  
UGUAAACAUCUCGACUGGAAGC&GACCCAGAGGAAGCCUCUAUUUAUUUAUUAGCUUUUGUUUACAC  
((((((((((...(((...&...)))))))))...))))))... -  
18.15

>ENSG00000172819 hs-mir-30a 1028 1035  
UGUAAACAUCUCGACUGGAAGC&UCUCUUGGGGGGUCAGGGUGCUGUCCCUCCCUCCUCUGUUUACAU  
((((((((((...(((...&...)))))))))...))))))... -  
17.50

mir-30a ENSMUSG00000001288 2000 nt UTR 2 hits 919 1093

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

>ENSMUSG00000001288 hs-mir-30a 919 926  
UGUAAACAUCUCGACUGGAAGC&GACCCAGAGGAAGCCUCUAUUUAUUUAUUAGCUUUUGUUUACAC  
((((((((((...(((...&...)))))))))...))))))... -  
18.15

>ENSMUSG00000001288 hs-mir-30a 1093 1100  
UGUAAACAUCUCGACUGGAAGC&UUCUCUGGGGGGUUAGGGUGCUGUCCCUCCCUCCUCUGUUUACAU  
((((((((((...(((...&...)))))))))...))))))... -  
17.50

mir-30a ENSRNOG00000012499 2000 nt UTR 3 hits 836 1010 1401

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

>ENSRNOG00000012499 hs-mir-30a 836 843  
UGUAAACAUCUCGACUGGAAGC&ACCCAGAGGAAGGCCUCUAUUUAUUUAUUAGCUUUUGUUUACAC  
((((((((((...(((...&...)))))))))...))))))... -  
18.11

>ENSRNOG00000012499 hs-mir-30a 1010 1017  
UGUAAACAUCUCGACUGGAAGC&UUCUCUGGGGGGUUAGGGUGCUGUCCCUCCCUCCUCUGUUUACAU  
((((((((((...(((...&...)))))))))...))))))... -  
17.50

>ENSRNOG00000012499 hs-mir-30a 1401 1408  
UGUAAACAUCUCGACUGGAAGC&GAUCCUGUGGGUUAUGCUACUAUGCCUAGGCAUGUGUUUACC  
((((((((((...(((...&...)))))))))...))))))... -17.80



miRNA: mir-30a

Human predicted target: ENSG00000176165

Mouse predicted target: ENSMUSG00000020950

Rat predicted target: ENSRNOG00000004156

Hs Gene description: FORKHEAD BOX PROTEIN G1B (FORKHEAD-RELATED PROTEIN FKHL1) (TRANSCRIPTION FACTOR BF-1) (BRAIN FACTOR 1) (BF1) (HFK1).

[Source:SWISSPROT;Acc:P55315] NM\_005249

mir-30a ENSG00000176165 2922 nt UTR 3 hits 505 874 1476

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

>ENSG00000176165 hs-mir-30a 505 512  
UGUAAACAUCCUCGACUGGAAGC&UGUCCUUUUUCUUUAAAGAACUGUUUUUUUUUCUUUUUGUUUACU  
.((((((((.....(((((&.....)))))).....))))). -13.03

>ENSG00000176165 hs-mir-30a 874 881  
UGUAAACAUCCUCGACUGGAAGC&UGUGGUCAUAUGCCCGUGUUUGUCACUUACAAAAUGUUUACU  
.((((((((.....((((((&.....))))).)))).)).....))))). -11.70

>ENSG00000176165 hs-mir-30a 1476 1483  
UGUAAACAUCCUCGACUGGAAGC&UUUAUACUUUCUAAGUCAGCAUUUAUUUUUGUGGCUGUUUACC  
.((((((((.....((((((&.....))))).)))).)).....))))). -17.71

mir-30a ENSMUSG00000020950 2925 nt UTR 3 hits 135 501 882

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

>ENSMUSG00000020950 hs-mir-30a 135 142  
UGUAAACAUCCUCGACUGGAAGC&UCCCAUUUCUGUACGUUUGUUCAGUCUUUAGGGUUGUUUACU  
.((((((((.....((((((&.....))))).)))).)).....))))). -24.00

>ENSMUSG00000020950 hs-mir-30a 501 508  
UGUAAACAUCCUCGACUGGAAGC&UGUCCUUUUUCUUUAAAGAACUGUUUCUUUCCUUUUGUUUACU  
.((((((((.....((((((&.....))))).)))).)).....))))). -16.00

>ENSMUSG00000020950 hs-mir-30a 882 889  
UGUAAACAUCCUCGACUGGAAGC&UGUGGUCAUAUGCCCGUGUUUGUCACUUACAAAAUGUUUACU  
.((((((((.....((((((&.....))))).)))).)).....))))). -11.70

mir-30a ENSRNOG00000004156 2930 nt UTR 3 hits 136 501 883

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

>ENSRNOG00000004156 hs-mir-30a 136 143  
UGUAAACAUCCUCGACUGGAAGC&CCCCAUUUUCUGUACGUUUGUUCAGUCUUUAGGGUUGUUUACU  
.((((((((.....((((((&.....))))).)))).)).....))))). -24.00

>ENSRNOG00000004156 hs-mir-30a 501 508  
UGUAAACAUCCUCGACUGGAAGC&UUUGUCCUUUUUCUUUAAAGAACUGUUUUUUUCUUUUUGUUUACU  
.((((((((.....((((((&.....))))).)))).)).....))))). -12.90

>ENSRNOG00000004156 hs-mir-30a 883 890  
UGUAAACAUCCUCGACUGGAAGC&UGUGGUCAUAUGCCCGUGUUUGUCACUUACAAAAUGUUUACU  
.((((((((.....((((((&.....))))).)))).)).....))))). -11.70

miRNA: mir-30a

Human predicted target: ENSG00000181915

Mouse predicted target: ENSMUSG00000043176

Rat predicted target: ENSRNOG00000000639

Hs Gene description: NM\_032804

mir-30a ENSG00000181915 4611 nt UTR 2 hits 1330 3218

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

>ENSG00000181915 hs-mir-30a 1330 1337

UGUAAACAUCUCGACUGGAAGC&UUUUUGUGCUUUUAAUAGUCCGAGCAGUCUUACCUUGUUUACAC

(((((.....))))). -  
20.22

>ENSG00000181915 hs-mir-30a 3218 3225

UGUAAACAUCUCGACUGGAAGC&UAUAGAUUUGAAUCUCAAACCCAAUCUGGGGAUGUUUACAU

(((((.....))))). -  
26.00

mir-30a ENSMUSG00000043176 2000 nt UTR 2 hits 1477 1526

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

>ENSMUSG00000043176 hs-mir-30a 1477 1484

UGUAAACAUCUCGACUGGAAGC&GUAUUAUGGCUGGCGGAGGCUCAGCCCCUUUACCAUGUUUACAG

(((((.....))))). -  
19.66

>ENSMUSG00000043176 hs-mir-30a 1526 1533

UGUAAACAUCUCGACUGGAAGC&UCUAUCGAUUCUGACCAUGGACCACCAGUUUCCCCUGUUUACU

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

mir-30a ENSRNOG00000000639 2000 nt UTR 2 hits 1498 1550

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

>ENSRNOG00000000639 hs-mir-30a 1498 1505

UGUAAACAUCUCGACUGGAAGC&GCAUUAUGGCCAGCAGAGGCUCGGCAGUUUGCCAUGUUUACAG

(((((.....))))). -  
24.26

>ENSRNOG00000000639 hs-mir-30a 1550 1557

UGUAAACAUCUCGACUGGAAGC&ACACUAGAUUCUAGCCAUGGACCACCAGUUUCCCCUGUUUACU

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

miRNA: mir-30a

Human predicted target: ENSG00000185112

Mouse predicted target: ENSMUSG00000046546

Rat predicted target: ENSRNOG00000001728

Hs Gene description: NM\_153690

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

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

>ENSG00000185112 hs-mir-30a 519 526

UGUAAACAUCUCGACUGGAAGC&UAGCCCUUGGUUCUUUUUGGUGCAAGAAUUCUGGCUGUUUACC

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

>ENSG00000185112 hs-mir-30a 609 616

UGUAAACAUCCUCGACUGGAAGC&UGGGGGGUGGGGGGAGAUGAAAGAGAGUCGCGUUUUGUUUACAG  
(((((((((((((((((.....&.....))))))))).....)))))))). -  
19.59

mir-30a ENSMUSG00000046546 2846 nt UTR 4 hits 487 577 1366 1391  
-----1--1-----11-----

>ENSMUSG00000046546 hs-mir-30a 487 494  
UGUAAACAUCCUCGACUGGAAGC&CUGCCCCAGUUCUUUCGGAUAGGGGAGCUUGGGCUGUUUACC  
(((((((((((((((((.....&.....))))))))).....)))))))). -22.60

>ENSMUSG00000046546 hs-mir-30a 577 584  
UGUAAACAUCCUCGACUGGAAGC&CUUGGGGGGGGGGCGAGUGUAUGAAAGUCGUGUUUUGUUUACAG  
(((((((((((((((((.....&.....))))))))).....)))))))). -  
19.60

>ENSMUSG00000046546 hs-mir-30a 1366 1373  
UGUAAACAUCCUCGACUGGAAGC&UUUGGAGAGGUCAGUGUAAAUAACUGCCCACGCUGUUUACAC  
(((((((((((((((((.....&.....))))))))).....)))))))). -  
16.87

>ENSMUSG00000046546 hs-mir-30a 1391 1398  
UGUAAACAUCCUCGACUGGAAGC&CUGCCCACGCUGUUUACACGAGUCACGUGGAUGGCUGUUUACU  
(((((((((((((((((.....&.....))))))))).....)))))))). -19.70

mir-30a ENSRNOG00000001728 2000 nt UTR 3 hits 511 604 1397  
-----1--1-----1-----

>ENSRNOG00000001728 hs-mir-30a 511 518  
UGUAAACAUCCUCGACUGGAAGC&CUGCCCCAGUUCUUUUGGAUAUGAGAGCUUGGGCUGUUUACC  
(((((((((((((((((.....&.....))))))))).....)))))))). -20.45

>ENSRNOG00000001728 hs-mir-30a 604 611  
UGUAAACAUCCUCGACUGGAAGC&UGGGGGGCGGAGGGCGGGGUAUGAAAGUUGUGUUUUGUUUACAG  
(((((((((((((((((.....&.....))))))))).....)))))))). -  
19.83

>ENSRNOG00000001728 hs-mir-30a 1397 1404  
UGUAAACAUCCUCGACUGGAAGC&AAUUAACUGCCCACACUGUUUAGACGUGUAUGGCUGUUUACU  
(((((((((((((((((.....&.....))))))))).....)))))))). -16.50

miRNA: mir-30b  
Human predicted target: ENSG00000074047  
Mouse predicted target: ENSMUSG00000048402  
Rat predicted target: ENSRNOG00000002430  
Hs Gene description: ZINC FINGER PROTEIN GLI2 (TAX HELPER PROTEIN).  
[Source:SWISSPROT;Acc:P10070] NM\_005270  
mir-30b ENSG00000074047 2564 nt UTR 2 hits 771 953  
-----1-----1-----

>ENSG00000074047 hs-mir-30b 771 778  
UGUAAACAUCCUACACUCAGC&GCAAGCCAGAAGCUGCCCUGGCCUCUCCAGACCGUGUUUACAG  
(((((((((((((((((.....&.....))))))))).....)))))))). -16.10

>ENSG00000074047 hs-mir-30b 953 960

UGUAAACAUCCUACACUCAGC&CCCUAGGGAUCUCUCAGUAGGAAGAGGAAGUUGCGUGUUUACC  
.((((((((((((((.....&.....)))))).....)))))))). -16.91  
mir-30b ENSMUSG00000048402 3651 nt UTR 3 hits 695 833 1357  
-----1-----1-----1-----

>ENSMUSG00000048402 hs-mir-30b 695 702  
UGUAAACAUCCUACACUCAGC&UUACUAUUGGGGGGGGUACAGGGGUCUCUCCUGGCCUGUUUACAG  
((((((((((((((...(((.&.....)))))).....)))))))). -17.70  
>ENSMUSG00000048402 hs-mir-30b 833 840  
UGUAAACAUCCUACACUCAGC&GUGGAAGAGGCCUUCGCCAGGAAAAGGAAGUCAUAUGUUUACC  
.((((((((((((((...(((.&.....)))))).....)))))))). -14.25  
>ENSMUSG00000048402 hs-mir-30b 1357 1364  
UGUAAACAUCCUACACUCAGC&CUGGACCCUCUGUGUCCAGGGCAGCAAACUUCUCUGUUUACAA  
((((((((((((((((((...(((.&.....)))))).....)))))))). -16.61  
mir-30b ENSRNOG00000002430 2000 nt UTR 3 hits 657 794 1301  
-----1-----1-----1-----

>ENSRNOG00000002430 hs-mir-30b 657 664  
UGUAAACAUCCUACACUCAGC&AUUUUUUACUAUGGGGGUGGGGGGCUCUCCUGGCCUGUUUACAG  
((((((((((((((((((...(((.&.....)))))).....)))))))). -21.81  
>ENSRNOG00000002430 hs-mir-30b 794 801  
UGUAAACAUCCUACACUCAGC&GUGAAAGAGGCCUUCGCCAGGCAAAGGAGGCCGUGUGUUUACC  
.((((((((((((((((((...(((.&.....)))))).....)))))))). -15.80  
>ENSRNOG00000002430 hs-mir-30b 1301 1308  
UGUAAACAUCCUACACUCAGC&CUGGACCCUCUGUGUCCGGGGCAGCAAACUUCUCUGUUUACAA  
((((((((((((((((((...(((.&.....)))))).....)))))))). -16.41

miRNA: mir-30b  
Human predicted target: ENSG00000074266  
Mouse predicted target: ENSMUSG00000030619  
Rat predicted target: ENSRNOG00000017509  
Hs Gene description: EMBRYONIC ECTODERM DEVELOPMENT ISOFORM B; WD PROTEIN ASSOCIATING WITH INTEGRIN CYTOPLASMIC TAILS 1.  
[Source:RefSeq;Acc:NM\_152991] NM\_003797  
mir-30b ENSG00000074266 2740 nt UTR 2 hits 667 676  
-----1-----

>ENSG00000074266 hs-mir-30b 667 674  
UGUAAACAUCCUACACUCAGC&UUCAGCAUUCAAUCAGGCUGAGCUGAAUGUAGUGAUGUUUACAU  
((((((((((((((((((...(((.&.....)))))).....)))))))). -31.00  
>ENSG00000074266 hs-mir-30b 676 683  
UGUAAACAUCCUACACUCAGC&CAAUCAGGCUGAGCUGAAUGUAGUGAUGUUUACAUUGUUUACAU  
((((((((((((((((((...(((.&.....)))))).....)))))))). -24.10  
mir-30b ENSMUSG00000030619 2261 nt UTR 2 hits 138 274  
-----1-----1-----

>ENSMUSG00000030619 hs-mir-30b 138 145

UGUAAACAUCUACACUCAGC&CGAUCAGGCUGAGCUGAAUGUAGUGAUGUUCACAUUGUUUACAU  
(((((((((((((((((((((&.....)))))))).)))))). -24.10  
>ENSMUSG00000030619 hs-mir-30b 274 281  
UGUAAACAUCUACACUCAGC&UGGAAGAAAUAAGUUGUACCAUAUCUUUUUGUAAUGUUUACU  
(((((((((((((((((((((&.....)))))))).)))))). -13.90  
mir-30b ENSRNOG00000017509 2289 nt UTR 3 hits 135 144 280  
-----2-----1-----  
-----  
>ENSRNOG00000017509 hs-mir-30b 135 142  
UGUAAACAUCUACACUCAGC&UUCAGCAUCCGAUCAGGCUGAGCUGAAUGUAGUGGUGUUUACAU  
(((((((((((((((((((((&.....)))))))).)))))). -30.40  
>ENSRNOG00000017509 hs-mir-30b 144 151  
UGUAAACAUCUACACUCAGC&CGAUCAGGCUGAGCUGAAUGUAGUGGUGUUUACAUUGUUUACAU  
(((((((((((((((((((((&.....)))))))).)))))). -23.20  
>ENSRNOG00000017509 hs-mir-30b 280 287  
UGUAAACAUCUACACUCAGC&UGGAAGAAAUAAGUUAUACCAUAUCUUCUUGUAAUGUUUACU  
(((((((((((((((((((((&.....)))))))).)))))). -13.90

miRNA: mir-30b

Human predicted target: ENSG00000090905

Mouse predicted target: ENSMUSG00000030776

Rat predicted target: ENSRNOG00000012884

Hs Gene description: TRINUCLEOTIDE REPEAT CONTAINING 6; EDIE; GW182  
AUTOANTIGEN. [Source:RefSeq;Acc:NM\_020847]

mir-30b ENSG00000090905 2979 nt UTR 4 hits 455 746 786 1552

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

>ENSG00000090905 hs-mir-30b 455 462  
UGUAAACAUCUACACUCAGC&AUCGGCAGUAUGGGGGGCAGCUGUCCAGUGUCA AUGUUUACU  
(((((((((((((((((((((&.....)))))))).)))))). -20.50  
>ENSG00000090905 hs-mir-30b 746 753  
UGUAAACAUCUACACUCAGC&CAUUUUGUUUUGGAGGUUCUCACUUUGAACCUUCUUGUUUACAG  
(((((((((((((((((((((&.....)))))))).)))))). -13.49  
>ENSG00000090905 hs-mir-30b 786 793  
UGUAAACAUCUACACUCAGC&ACAGAUUUUUUGUUUUGUUUUUGAGAAAAAAAAAUGUUUACU  
(((((((((((((((((((((&.....)))))))).)))))). -14.74  
>ENSG00000090905 hs-mir-30b 1552 1559  
UGUAAACAUCUACACUCAGC&GUCCUAAGAUGCAAAGAAGUCAGUGGCUUUUAACUGUUUACAA  
(((((((((((((((((((((&.....)))))))).)))))). -13.84  
mir-30b ENSMUSG00000030776 2445 nt UTR 4 hits 78 366 405 1165

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

>ENSMUSG00000030776 hs-mir-30b 78 85  
UGUAAACAUCUACACUCAGC&AAUCGGCAAUAUGGGGGGCAGCUGUCCAGUGUAGAUGUUUACU  
(((((((((((((((((((((&.....)))))))).)))))). -26.20  
>ENSMUSG00000030776 hs-mir-30b 366 373  
UGUAAACAUCUACACUCAGC&CAUGUUGUUUUGAAGGUUCCACGGUGAACCUUCUUGUUUACAG

```

(((((((((((((.....)))))))). -15.75
>ENSMUSG00000030776 hs-mir-30b      405      412
UGUAAACAUCUACACUCAGC&UACAGAUUUUUUUGUUUUUUUGAGAAAAAAAUGUUUACU
.((((((((((.....)))))))). -15.32
>ENSMUSG00000030776 hs-mir-30b     1165     1172
UGUAAACAUCUACACUCAGC&GUCCUAAGAUGCAAAGAGGUCAGUGGCUUUUAACUGUUUACAA
((((((((((.....)))))))). -13.50
mir-30b      ENSRNOG00000012884  4340 nt UTR      4 hits 449 736 774 1526
-----1-----11-----1-----
-----
>ENSRNOG00000012884 hs-mir-30b      449      456
UGUAAACAUCUACACUCAGC&UCUCUCCGUCUGGGGGACAGCUGCUCAGUGUAAAUGUUUACU
.((((((((((.....)))))))). -22.30
>ENSRNOG00000012884 hs-mir-30b      736      743
UGUAAACAUCUACACUCAGC&CAUGUUGUUUUGAAGGUUCCACGGUGAACCUUCUUGUUUACAG
((((((((((.....)))))))). -15.75
>ENSRNOG00000012884 hs-mir-30b      774      781
UGUAAACAUCUACACUCAGC&UUACAGAUUUUUUGUUUUUUUGAGAAAAAAAUGUUUACU
.((((((((((.....)))))))). -15.32
>ENSRNOG00000012884 hs-mir-30b     1526     1533
UGUAAACAUCUACACUCAGC&GUCCUAAGACGCAAAGAGGUCAGUGGCUUUUAACUGUUUACAA
((((((((((.....)))))))). -13.80

```

miRNA: mir-30b

Human predicted target: ENSG00000109689

Mouse predicted target: ENSMUSG00000039156

Rat predicted target: ENSRNOG00000002956

Hs Gene description: STROMAL INTERACTION MOLECULE 2 PRECURSOR.

[Source:SWISSPROT;Acc:Q9P246] NM\_020860

mir-30b ENSG00000109689 4385 nt UTR 2 hits 371 881

```

-----1-----1-----
-----
>ENSG00000109689 hs-mir-30b      371      378
UGUAAACAUCUACACUCAGC&GACUCGUAAGCCAGCAUGGGCUUGCAAUUUCUUGUUUACC
.((((((((((.....)))))))). -11.89
>ENSG00000109689 hs-mir-30b      881      888
UGUAAACAUCUACACUCAGC&AAGCCGAGGUGGGGGGAUAUGGGGAUUCAGGCAAUUGUUUACAC
((((((((((.....)))))))). -22.29
mir-30b      ENSMUSG00000039156  2000 nt UTR      2 hits 365 868
-----1-----1-----
-----
>ENSMUSG00000039156 hs-mir-30b      365      372
UGUAAACAUCUACACUCAGC&GGACUGUAAGCCAGCAUGGGCUUGCAAUUUCUUGUUUACC
.((((((((((.....)))))))). -11.89
>ENSMUSG00000039156 hs-mir-30b      868      875

```

UGUAAACAUCCUACACUCAGC&UAAACUGCGGUCUGGGGCGUGGGGACCCAGGCACUUGUUUACAG  
(((((((((((((((((((((.&.....))))))..)))))).....)))))))). -23.80  
mir-30b ENSRNOG0000002956 2000 nt UTR 2 hits 362 866

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

>ENSRNOG0000002956 hs-mir-30b 362 369  
UGUAAACAUCCUACACUCAGC&GGACUGUAAGCCAGCAUGGGCUUGCACAAUUUUCUUGUUUACC  
(((((((((((((((((((((.&.....))))))..)))))).....)))))))). -11.89

>ENSRNOG0000002956 hs-mir-30b 866 873  
UGUAAACAUCCUACACUCAGC&UAAACUGAGGUUGGGGUGUGGGGAUUCAGGCACUUGUUUACAG  
(((((((((((((((((((((.&.....))))))..)))))).....)))))))). -24.40

miRNA: mir-30b

Human predicted target: ENSG00000114353

Mouse predicted target: ENSMUSG00000032562

Rat predicted target: ENSRNOG00000016592

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  
UGUAAACAUCCUACACUCAGC&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

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

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

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

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

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

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

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

>ENSRNOG00000016592 hs-mir-30b 1202 1209

UGUAAACAUCUACACUCAGC&GCUUUGUCCAACACCAGCCCUGACCCAAGUCCAAAUGUUUACAG  
(((((((((((((.....(((((&.....)))))).....)))))))). -14.10  
>ENSRNOG00000016592 hs-mir-30b 1486 1493  
UGUAAACAUCUACACUCAGC&CUUUCAGUGAUUCCGUGCCUUGAGUGUUUCUGCCUGUUUACAC  
(((((((((((((.....(((((&.....)))))).....)))))))). -21.30

miRNA: mir-30b

Human predicted target: ENSG00000126003

Mouse predicted target: ENSMUSG00000051413

Mouse predicted target: ENSMUSG00000045985

Rat predicted target: ENSRNOG00000010086

Hs Gene description: ZINC FINGER PROTEIN PLAGL2 (PLEIOMORPHIC ADENOMA-LIKE  
PROTEIN 2). [Source:SWISSPROT;Acc:Q9UPG8] NM\_002657

mir-30b ENSG00000126003 5948 nt UTR 2 hits 655 742

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

>ENSG00000126003 hs-mir-30b 655 662  
UGUAAACAUCUACACUCAGC&CAAGCUGUUAGCCUAGAGUGAUUGCAGUGAACACUGUUUACAC  
(((((((((((((.....(((((&.....)))))).....)))))))). -16.60

>ENSG00000126003 hs-mir-30b 742 749  
UGUAAACAUCUACACUCAGC&CUGAACCAUUUGGUACCUGGUGUUAACUGGAGUCCUGUUUACAA  
(((((((((((((.....(((((&.....)))))).....)))))))). -20.70  
mir-30b ENSMUSG00000051413 5720 nt UTR 2 hits 637 724

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

>ENSMUSG00000051413 hs-mir-30b 637 644  
UGUAAACAUCUACACUCAGC&GCCACACUGUUAGCCUAGUGAUUGCAGUGAACACUGUUUACAC  
(((((((((((((.....(((((&.....)))))).....)))))))). -16.50

>ENSMUSG00000051413 hs-mir-30b 724 731  
UGUAAACAUCUACACUCAGC&CUGAACACUCGGUACCUGGUGUUAACUGGAGCCCUGUUUACAA  
(((((((((((((.....(((((&.....)))))).....)))))))). -20.70  
mir-30b ENSMUSG00000045985 5720 nt UTR 2 hits 637 724

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

>ENSMUSG00000045985 hs-mir-30b 637 644  
UGUAAACAUCUACACUCAGC&GCCACACUGUUAGCCUAGUGAUUGCAGUGAACACUGUUUACAC  
(((((((((((((.....(((((&.....)))))).....)))))))). -16.50

>ENSMUSG00000045985 hs-mir-30b 724 731  
UGUAAACAUCUACACUCAGC&CUGAACACUCGGUACCUGGUGUUAACUGGAGCCCUGUUUACAA  
(((((((((((((.....(((((&.....)))))).....)))))))). -20.70  
mir-30b ENSRNOG00000010086 2000 nt UTR 2 hits 642 729



-----1-----1-----  
-----  
>ENSRNOG00000010086 hs-mir-30b 642 649  
UGUAAACAUCUACACUCAGC&CACACUGUUAGCCUUAGAGUGAUUGCAGUGAACACUGUUUACAC  
((((((((.....((((((.&.....))))).)))).....))))). -16.50  
>ENSRNOG00000010086 hs-mir-30b 729 736  
UGUAAACAUCUACACUCAGC&CUGAACACUCGGUACCUGGUGUUAACUGGAGCCCUGUUUACAA  
((((((((((.(.(((.&.....)))))).....))))). -20.70

miRNA: mir-30b

Human predicted target: ENSG00000176165

Mouse predicted target: ENSMUSG00000020950

Rat predicted target: ENSRNOG00000004156

Hs Gene description: FORKHEAD BOX PROTEIN G1B (FORKHEAD-RELATED PROTEIN  
FKHL1) (TRANSCRIPTION FACTOR BF-1) (BRAIN FACTOR 1) (BF1) (HFK1).

[Source:SWISSPROT;Acc:P55315] NM\_005249

mir-30b ENSG00000176165 2922 nt UTR 3 hits 505 874 1476

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

-----  
>ENSG00000176165 hs-mir-30b 505 512  
UGUAAACAUCUACACUCAGC&UGUCCUUUUUCUUUAAAGAACUGUUUUUUUUUCUUUUUGUUUACU  
.((((((((.....(((.&.....))))).)))).....))))). -11.25

>ENSG00000176165 hs-mir-30b 874 881  
UGUAAACAUCUACACUCAGC&UGUGGUCAUAUGCCCGUGUUUGUCACUUACAAAAUGUUUACU  
.((((((((((.(.(((.&.....))))).)))).....))))). -12.70

>ENSG00000176165 hs-mir-30b 1476 1483  
UGUAAACAUCUACACUCAGC&UUUAUACUUUCUAAGUCAGCAUUUAUUUUUGUGGCUGUUUACC  
.((((((((((.(.(((.&.....))))).)))).....))))). -15.40

mir-30b ENSMUSG00000020950 2925 nt UTR 3 hits 135 501 882

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

-----  
>ENSMUSG00000020950 hs-mir-30b 135 142  
UGUAAACAUCUACACUCAGC&UCCCAUUUCUGUACGUUUGUUCAGUCUUUAGGGUUGUUUACU  
.((((((((((((((.(.(((.&.....))))).)))).....))))). -18.20

>ENSMUSG00000020950 hs-mir-30b 501 508  
UGUAAACAUCUACACUCAGC&UGUCCUUUUUCUUUAAAGAACUGUUUCUUUCCUUUUUGUUUACU  
.((((((((.....(((.&.....))))).)))).....))))). -11.80

>ENSMUSG00000020950 hs-mir-30b 882 889  
UGUAAACAUCUACACUCAGC&UGUGGUCAUAUGCCCGUGUUUGUCACUUACAAAAUGUUUACU  
.((((((((((.(.(((.&.....))))).)))).....))))). -12.70

mir-30b ENSRNOG00000004156 2930 nt UTR 3 hits 136 501 883

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

-----  
>ENSRNOG00000004156 hs-mir-30b 136 143  
UGUAAACAUCUACACUCAGC&CCCCAUUUUCUGUACGUUUGUUCAGUCUUUAGGGUUGUUUACU  
.((((((((((((((.(.(((.&.....))))).)))).....))))). -18.20

>ENSRNOG00000004156 hs-mir-30b 501 508

UGUAAACAUCCUACACUCAGC&UUUGUCCUUUUUCUUUAAAGAACUGUUUUUUUCUUUUGUUUACU  
.(((((((.....((.&.....)))))))). -12.35  
>ENSRNOG00000004156 hs-mir-30b 883 890  
UGUAAACAUCCUACACUCAGC&UGUGGUCAUAUGCCCGUGUUUGUCACUACAAAAUGUUUACU  
.(((((((.....((.&.....)))))))). -12.70

miRNA: mir-30b

Human predicted target: ENSG00000185112  
Mouse predicted target: ENSMUSG00000046546  
Rat predicted target: ENSRNOG00000001728  
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&UUUGGAGAGGUCAGUGUAAAUAACUGCCCACGCUGUUUACAC

(((((((((.....((.&.....)))))))). -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  
UGUAAACAUCCUACACUCAGC&CUGCCCCAGUUCUUUUGGAUAUGAGAGCUUGGGCUGUUUACC  
.(((((((.....((.&.....)))))))). -20.50  
>ENSRNOG00000001728 hs-mir-30b 604 611  
UGUAAACAUCCUACACUCAGC&UGGGGGGCGGAGGGCGGGGUAUGAAAGUUGUGUUUUGUUUACAG

(((((((((.....((.&.....)))))))). -19.09  
>ENSRNOG00000001728 hs-mir-30b 1397 1404  
UGUAAACAUCCUACACUCAGC&AAUUAACUGCCCACACUGUUUAGACGUGUAUGGCUGUUUACU

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

miRNA: mir-30c

Human predicted target: ENSG00000074266

Mouse predicted target: ENSMUSG00000030619

Rat predicted target: ENSRNOG00000017509

Hs Gene description: EMBRYONIC ECTODERM DEVELOPMENT ISOFORM B; WD PROTEIN ASSOCIATING WITH INTEGRIN CYTOPLASMIC TAILS 1.

[Source:RefSeq;Acc:NM\_152991] NM\_003797

mir-30c ENSG00000074266 2740 nt UTR 2 hits 667 676

-----11-----

>ENSG00000074266 hs-mir-30c 667 674
UGUAAACAUCCUACACUCUCAGC&UUCAGCAUCAAUCAGGCUGAGCUGAAUGUAGUGAUGUUUACAU
((((((((((((((((((..(((((((&.....)))))))).)))))))).)))))))). -
30.20

>ENSG00000074266 hs-mir-30c 676 683
UGUAAACAUCCUACACUCUCAGC&CAAUCAGGCUGAGCUGAAUGUAGUGAUGUUUACAUUGUUUACAU
((((((((((((((((((..(((((((&.....)))))))).)))))))).)))))))). -
23.30

mir-30c ENSMUSG00000030619 2261 nt UTR 2 hits 138 274

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

>ENSMUSG00000030619 hs-mir-30c 138 145
UGUAAACAUCCUACACUCUCAGC&CGAUCAGGCUGAGCUGAAUGUAGUGAUGUUCACAUUGUUUACAU
((((((((((((((((((..(((((((&.....)))))))).)))))))).)))))))). -
23.30

>ENSMUSG00000030619 hs-mir-30c 274 281
UGUAAACAUCCUACACUCUCAGC&UGGAAGAAUAAAGUUGUACCAUAUCUUUUUGUAAUGUUUACU
((((((((((((((((((..(((((((&.....)))))))).)))))))).)))))))). -13.90
mir-30c ENSRNOG00000017509 2289 nt UTR 3 hits 135 144 280

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

>ENSRNOG00000017509 hs-mir-30c 135 142
UGUAAACAUCCUACACUCUCAGC&UUCAGCAUCCGAUCAGGCUGAGCUGAAUGUAGUGGUGUUUACAU
((((((((((((((((((..(((((((&.....)))))))).)))))))).)))))))). -
29.60

>ENSRNOG00000017509 hs-mir-30c 144 151
UGUAAACAUCCUACACUCUCAGC&CGAUCAGGCUGAGCUGAAUGUAGUGGUGUUUACAUUGUUUACAU
((((((((((((((((((..(((((((&.....)))))))).)))))))).)))))))). -
23.50

>ENSRNOG00000017509 hs-mir-30c 280 287
UGUAAACAUCCUACACUCUCAGC&UGGAAGAAUAAAGUUAUACCAUAUCUUCUUGUAAUGUUUACU
((((((((((((((((((..(((((((&.....)))))))).)))))))).)))))))). -13.90

miRNA: mir-30c

Human predicted target: ENSG00000090905

Mouse predicted target: ENSMUSG00000030776

Rat predicted target: ENSRNOG00000012884

Hs Gene description: TRINUCLEOTIDE REPEAT CONTAINING 6; EDIE; GW182  
AUTOANTIGEN. [Source:RefSeq;Acc:NM\_020847]

mir-30c ENSG00000090905 2979 nt UTR 4 hits 455 746 786 1552

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

>ENSG00000090905 hs-mir-30c 455 462  
UGUAAACAUCCUACACUCUCAGC&AUCGGCAGUAUGGGGGGCAGCUGUCCAGUGUCA AUGUUUACU  
.(((((((((.((((&.....))))))....)))))).. -21.60

>ENSG00000090905 hs-mir-30c 746 753  
UGUAAACAUCCUACACUCUCAGC&CAUUUUGUUUUGGAGGUUCUCACUUUGAACCUUCUUGUUUACAG  
(((((((((.((((&.....))))))....)))))).. -  
14.25

>ENSG00000090905 hs-mir-30c 786 793  
UGUAAACAUCCUACACUCUCAGC&ACAGAUUUUUUGUUUUGUUUUUGAGAAAAAAAUGUUUACU  
.(((((((((.((((&.....))))))....)))))).. -17.44

>ENSG00000090905 hs-mir-30c 1552 1559  
UGUAAACAUCCUACACUCUCAGC&GUCCUAAGAUGCAAAGAAGUCAGUGGCUUUUAACUGUUUACAA  
(((((((((.((((&.....))))))....)))))).. -  
13.84

mir-30c ENSMUSG00000030776 2445 nt UTR 4 hits 78 366 405 1165

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

>ENSMUSG00000030776 hs-mir-30c 78 85  
UGUAAACAUCCUACACUCUCAGC&AAUCGGCAAUAUGGGGGCAGCUGUCCAGUGUAGAUGUUUACU  
.(((((((((.((((&.....))))))....)))))).. -27.30

>ENSMUSG00000030776 hs-mir-30c 366 373  
UGUAAACAUCCUACACUCUCAGC&CAUGUUGUUUUGAAGGUUCCACGGUGAACCUUCUUGUUUACAG  
(((((((((.((((&....))))))....)))))).. -  
15.35

>ENSMUSG00000030776 hs-mir-30c 405 412  
UGUAAACAUCCUACACUCUCAGC&UACAGAUUUUUUGUUUUGUUUUUGAGAAAAAAAUGUUUACU  
.(((((((((.((((&.....))))))....)))))).. -17.02

>ENSMUSG00000030776 hs-mir-30c 1165 1172  
UGUAAACAUCCUACACUCUCAGC&GUCCUAAGAUGCAAAGAGGUCAGUGGCUUUUAACUGUUUACAA  
(((((((((.((((&.....))))))....)))))).. -  
15.90

mir-30c ENSRNOG00000012884 4340 nt UTR 4 hits 449 736 774 1526

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

>ENSRNOG00000012884 hs-mir-30c 449 456  
UGUAAACAUCCUACACUCUCAGC&UCUCUCCGUCUGGGGGACAGCUGCUCCAGUGUAAAUGUUUACU  
.(((((((((.((((&.....))))))....)))))).. -22.70

>ENSRNOG00000012884 hs-mir-30c 736 743  
UGUAAACAUCCUACACUCUCAGC&CAUGUUGUUUUGAAGGUUCCACGGUGAACCUUCUUGUUUACAG

(((((((((((((.....(((&.....)))))).....)))))))). -  
15.35  
>ENSRNOG00000012884 hs-mir-30c 774 781  
UGUAAACAUCUACACUCUCAGC&UUACAGAUUUUUUGUUUUUGAGAAAAAAUGUUUACU  
((((((((.....(((.....)))))).....))))). -17.02  
>ENSRNOG00000012884 hs-mir-30c 1526 1533  
UGUAAACAUCUACACUCUCAGC&GUCCUAAGACGCAAAGAGGUCAGUGGCUUUUAACUGUUUACAA  
((((((((.....(((.....)))))).....))))). -  
16.20

miRNA: mir-30c

Human predicted target: ENSG00000109689

Mouse predicted target: ENSMUSG00000039156

Rat predicted target: ENSRNOG00000002956

Hs Gene description: STROMAL INTERACTION MOLECULE 2 PRECURSOR.

[Source:SWISSPROT;Acc:Q9P246] NM\_020860

mir-30c ENSG00000109689 4385 nt UTR 2 hits 371 881

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

>ENSG00000109689 hs-mir-30c 371 378  
UGUAAACAUCUACACUCUCAGC&GACUCGUAAGCCAGCAUGGGCUUGCAAAAUUUCUUGUUUACC  
((((((((.....(((.....)))))).....))))). -12.49  
>ENSG00000109689 hs-mir-30c 881 888  
UGUAAACAUCUACACUCUCAGC&AAGCCGAGGUGGGGGGAUAUGGGGAUUCAGGCAAUUGUUUACAC  
((((((((.....(((.....)))))).....))))). -  
23.26

mir-30c ENSMUSG00000039156 2000 nt UTR 2 hits 365 868

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

>ENSMUSG00000039156 hs-mir-30c 365 372  
UGUAAACAUCUACACUCUCAGC&GGACUGUAAGCCAGCAUGGGCUUGCAAAAUUUCUUGUUUACC  
((((((((.....(((.....)))))).....))))). -12.49  
>ENSMUSG00000039156 hs-mir-30c 868 875  
UGUAAACAUCUACACUCUCAGC&UAAACUGCGGUCUGGGGCGUGGGGACCCAGGCACUUGUUUACAG  
((((((((.....(((.....)))))).....))))). -  
24.30

mir-30c ENSRNOG00000002956 2000 nt UTR 2 hits 362 866

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

>ENSRNOG00000002956 hs-mir-30c 362 369  
UGUAAACAUCUACACUCUCAGC&GGACUGUAAGCCAGCAUGGGCUUGCACAAUUUCUUGUUUACC  
((((((((.....(((.....)))))).....))))). -12.49  
>ENSRNOG00000002956 hs-mir-30c 866 873  
UGUAAACAUCUACACUCUCAGC&UAAACUGAGGUUGGGGGUGUGGGGAUUCAGGCACUUGUUUACAG  
((((((((.....(((.....)))))).....))))). -  
32.80

miRNA: mir-30c

Human predicted target: ENSG00000114353

Mouse predicted target: ENSMUSG00000032562

Rat predicted target: ENSRNOG00000016592

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-30c ENSG00000114353 2567 nt UTR 2 hits 405 682

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

>ENSG00000114353 hs-mir-30c 405 412  
UGUAAACAUCCUACACUCUCAGC&CCCAACACCAGCCCUGCCCAGCCCAAGUCCAAAUGUUUACAG  
((((((((.....(((.....(&.....))))).))))). -  
13.30

>ENSG00000114353 hs-mir-30c 682 689  
UGUAAACAUCCUACACUCUCAGC&CUUCCAAGUGACUCCGUGCCUUGAGUGUGUCUGCGUGUUUACAC  
((((((((.....(.(((.....(&.....))))).))))). -  
24.00

mir-30c ENSMUSG00000032562 2992 nt UTR 4 hits 398 683 1880 2165

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

-1-----1-----  
>ENSMUSG00000032562 hs-mir-30c 398 405  
UGUAAACAUCCUACACUCUCAGC&GCUUUGUCCAACACCAGCCCUGACCCAAAGUCCAAAUGUUUACAG  
((((((((.....(((.....(&.....))))).))))). -  
15.70

>ENSMUSG00000032562 hs-mir-30c 683 690  
UGUAAACAUCCUACACUCUCAGC&CUUUCAGCGAUUCCGUGCCUUGAGUGUGUCUGCGUGUUUACAC  
((((((((.....(.(((.....(&.....))))).))))). -  
24.00

>ENSMUSG00000032562 hs-mir-30c 1880 1887  
UGUAAACAUCCUACACUCUCAGC&GCUUUGUCCAACACCAGCCCUGACCCAAAGUCCAAAUGUUUACAG  
((((((((.....(((.....(&.....))))).))))). -  
15.70

>ENSMUSG00000032562 hs-mir-30c 2165 2172  
UGUAAACAUCCUACACUCUCAGC&CUUUCAGCGAUUCCGUGCCUUGAGUGUGUCUGCGUGUUUACAC  
((((((((.....(.(((.....(&.....))))).))))). -  
24.00

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

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

>ENSRNOG00000016592 hs-mir-30c 1202 1209  
UGUAAACAUCCUACACUCUCAGC&GCUUUGUCCAACACCAGCCCUGACCCAAAGUCCAAAUGUUUACAG  
((((((((.....(((.....(&.....))))).))))). -  
15.70

>ENSRNOG00000016592 hs-mir-30c 1486 1493  
UGUAAACAUCCUACACUCUCAGC&CUUUCAGUGAUUCCGUGCCUUGAGUGUUUCUGCCUGUUUACAC

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

miRNA: mir-30c

Human predicted target: ENSG00000126003

Mouse predicted target: ENSMUSG00000051413

Mouse predicted target: ENSMUSG00000045985

Rat predicted target: ENSRNOG00000010086

Hs Gene description: ZINC FINGER PROTEIN PLAGL2 (PLEIOMORPHIC ADENOMA-LIKE  
PROTEIN 2). [Source:SWISSPROT;Acc:Q9UPG8] NM\_002657

mir-30c ENSG00000126003 5948 nt UTR 2 hits 655 742

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

>ENSG00000126003 hs-mir-30c 655 662  
UGUAAACAUCUACACUCUCAGC&CAAGCUGUAGCCUAGAGUGAUUGCAGUGAACACUGUUUACAC  
((((((((((..(((((.....))....))))))....))....))....)).... -  
19.90

>ENSG00000126003 hs-mir-30c 742 749  
UGUAAACAUCUACACUCUCAGC&CUGAACCAUUUGGUACCUGGUGUUAACUGGAGUCCUGUUUACAA  
((((((((((..(((((.....&.....))....))....))....))....))....)).... -  
18.20

mir-30c ENSMUSG00000051413 5720 nt UTR 2 hits 637 724

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

>ENSMUSG00000051413 hs-mir-30c 637 644  
UGUAAACAUCUACACUCUCAGC&GCCACACUGUAGCCUAGUGAUUGCAGUGAACACUGUUUACAC  
((((((((((..(((((.....&.....))....))....))....))....))....)).... -  
14.80

>ENSMUSG00000051413 hs-mir-30c 724 731  
UGUAAACAUCUACACUCUCAGC&CUGAACACUCGGUACCUGGUGUUAACUGGAGCCCUGUUUACAA  
((((((((((..(((((.....&.....))....))....))....))....))....)).... -  
18.20

mir-30c ENSMUSG00000045985 5720 nt UTR 2 hits 637 724

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

>ENSMUSG00000045985 hs-mir-30c 637 644  
UGUAAACAUCUACACUCUCAGC&GCCACACUGUAGCCUAGUGAUUGCAGUGAACACUGUUUACAC  
((((((((((..(((((.....&.....))....))....))....))....))....)).... -  
14.80

>ENSMUSG00000045985 hs-mir-30c 724 731  
UGUAAACAUCUACACUCUCAGC&CUGAACACUCGGUACCUGGUGUUAACUGGAGCCCUGUUUACAA

```
(((((((((((((.....&.....)))))).....))))).... - 
18.20
mir-30c      ENSRNOG00000010086  2000 nt UTR      2 hits 642 729
-----1--1-----
>ENSRNOG00000010086 hs-mir-30c      642      649
UGUAAACAUCUACACUCUCAGC&CACACUGUUAGCCUUAGAGUGAUUGCAGUGAACACUGUUUACAC
(((((((((((.....&.....)))))).....))....)).. - 
18.40
>ENSRNOG00000010086 hs-mir-30c      729      736
UGUAAACAUCUACACUCUCAGC&CUGAACACUCGGUACCUGGUGUUAACUGGAGCCCUGUUUACAA
(((((((((((.....&.....)))))).....))....)).. - 
18.20
```

miRNA: mir-30c

```
Human predicted target: ENSG00000151239
Mouse predicted target: ENSMUSG00000022451
Rat predicted target: ENSRNOG00000012595
Hs Gene description: PTK9 PROTEIN TYROSINE KINASE 9; PROTEIN TYROSINE
KINASE 9. [Source:RefSeq;Acc:NM_002822] NM_002822
mir-30c      ENSG00000151239      3862 nt UTR      2 hits 1322 1385
-----1--1-----
>ENSG00000151239 hs-mir-30c      1322      1329
UGUAAACAUCUACACUCUCAGC&UUUAAAUAAGAAUUUAGAGUAUUUGGGGUUUUGUUUGUUUACAA
(((((((((((.....&.....)))))).....))....)).. - 
18.81
>ENSG00000151239 hs-mir-30c      1385      1392
UGUAAACAUCUACACUCUCAGC&UAAACAUGCAAAAUAACUGACAAUAUGUUGCACUUGUUUACU
..... -13.80
mir-30c      ENSMUSG00000022451  2732 nt UTR      3 hits 1355 1418 1740
-----1-1-----1-----
>ENSMUSG00000022451 hs-mir-30c      1355      1362
UGUAAACAUCUACACUCUCAGC&UUUUUAAAUAAGAUUUGAUUAUUGUGUGUUUUGUUUGUUUACAA
(((((((((((.....&.....)))))).....))....)).. - 
18.40
>ENSMUSG00000022451 hs-mir-30c      1418      1425
UGUAAACAUCUACACUCUCAGC&UACAUAUGCAGGACAGUCGACAGUGACGUCACACUUGUUUACGA
(((((((((((.....&.....)))))).....))....)).. - 
14.56
>ENSMUSG00000022451 hs-mir-30c      1740      1747
UGUAAACAUCUACACUCUCAGC&AAUCACGUAUGCAUUUGUUUAGGGUUAUAACUCAUUGUUUACAC
(((((((((((.....&.....)))))).....))....)).. - 
14.40
mir-30c      ENSRNOG00000012595  2000 nt UTR      3 hits 1309 1372 1675
```



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

>ENSRNOG00000012595 hs-mir-30c 1309 1316  
UGUAAACAUCUACACUCUCAGC&UGGAAGUUUUUAAAAUAGAUUUGUGUGUUUUGUUUGUUUACAA  
((((((((((..(((((..(((..&.....))))))..))))..))))..)))).. -  
18.30

>ENSRNOG00000012595 hs-mir-30c 1372 1379  
UGUAAACAUCUACACUCUCAGC&UAAAU AUGCAGGAGAGUUGAUGGUA AUGUUGCUCUUGUUUACGA  
((((((((((..(((((..(((..&.....))))))..))))..))))..)))).. -  
19.82

>ENSRNOG00000012595 hs-mir-30c 1675 1682  
UGUAAACAUCUACACUCUCAGC&AAUCACGUAUGCAUUUGUCUUAGGGAAUAACCCAUUGUUUACAG  
((((((((((..(((((..(((..&.....))))))..))))..))))..)))).. -  
14.00

miRNA: mir-30c  
Human predicted target: ENSG00000172819  
Mouse predicted target: ENSMUSG00000001288  
Rat predicted target: ENSRNOG00000012499  
Hs Gene description: RETINOIC ACID RECEPTOR GAMMA-1 (RAR-GAMMA-1).  
[Source:SWISSPROT;Acc:P13631]

mir-30c ENSG00000172819 3107 nt UTR 2 hits 855 1028  
-----1-----1-----

>ENSG00000172819 hs-mir-30c 855 862  
UGUAAACAUCUACACUCUCAGC&GACCCAGAGGAAGCCUCUAUUUAUUUAUAGCUUUUGUUUACAC  
((((((((((..(((((..(((..&.....))))))..))))..))))..)))).. -  
12.70

>ENSG00000172819 hs-mir-30c 1028 1035  
UGUAAACAUCUACACUCUCAGC&UCUCUUGGGGGGUCAGGGUGCUGUCCCCUCCCCUCUGUUUACAU  
((((((((((..(((((..(((..&.....))))))..))))..))))..)))).. -  
21.42

mir-30c ENSMUSG00000001288 2000 nt UTR 2 hits 919 1093  
-----1-----1-----

>ENSMUSG00000001288 hs-mir-30c 919 926  
UGUAAACAUCUACACUCUCAGC&GACCCAGAGGAAGCCUCUAUUUAUUUAUAGCUUUUGUUUACAC  
((((((((((..(((((..(((..&.....))))))..))))..))))..)))).. -  
12.70

>ENSMUSG00000001288 hs-mir-30c 1093 1100  
UGUAAACAUCUACACUCUCAGC&UUCUCUGGGGGGUAGGGUGCUGUCCCCUCCCCUCUGUUUACAU  
((((((((((..(((((..(((..&.....))))))..))))..))))..)))).. -  
24.62

mir-30c ENSRNOG00000012499 2000 nt UTR 3 hits 836 1010 1401  
-----1-----1-----1-----

>ENSRNOG00000012499 hs-mir-30c 836 843

UGUAAACAUCUACACUCUCAGC&ACCCAGAGGAAGGCCUCUAUUUAUUUAUUAGCUUUUGUUUACAC  
(((((((((((((.(.(((.....&.....)))))).)).....)))))))). -  
15.60  
>ENSRNOG00000012499 hs-mir-30c 1010 1017  
UGUAAACAUCUACACUCUCAGC&UUCUCUGGGGGGUUAGGGUGCUGUCCCCUCCCCUCUGUUUACAU  
(((((((((((((((.(.(((.....&.....)))))).)).....)))))))). -  
24.62  
>ENSRNOG00000012499 hs-mir-30c 1401 1408  
UGUAAACAUCUACACUCUCAGC&GAUCCUGUGGGGUUCAUGCUACUAUGCCUAGGCAUGUGUUUACC  
(((((((((((((((((((.(.(((.....&.....)))))).)).....)))))))). -18.39

miRNA: mir-30c

Human predicted target: ENSG00000176165

Mouse predicted target: ENSMUSG00000020950

Rat predicted target: ENSRNOG00000004156

Hs Gene description: FORKHEAD BOX PROTEIN G1B (FORKHEAD-RELATED PROTEIN  
FKHL1) (TRANSCRIPTION FACTOR BF-1) (BRAIN FACTOR 1) (BF1) (HFK1).

[Source:SWISSPROT;Acc:P55315] NM\_005249

mir-30c ENSG00000176165 2922 nt UTR 3 hits 505 874 1476

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

>ENSG00000176165 hs-mir-30c 505 512  
UGUAAACAUCUACACUCUCAGC&UGUCCUUUUCUUUAAAGAACUGUUUUUUUUUCUUUUGUUUACU  
(((((((((((((((.(.(&.....)))))).)).....)))))))). -12.15

>ENSG00000176165 hs-mir-30c 874 881  
UGUAAACAUCUACACUCUCAGC&UGUGGUCAUAUGCCCGUGUUUGUCACUUACAAAAUGUUUACU  
(((((((((((((((.(.(((.....&.....)))))).)).....)))))))). -13.10

>ENSG00000176165 hs-mir-30c 1476 1483  
UGUAAACAUCUACACUCUCAGC&UUUAUACUUUCUAAGUCAGCAUUUAUUUUUGUGGCUGUUUACC  
(((((((((((((((.(.(((.....&.....)))))).)).....)))))))). -15.40

mir-30c ENSMUSG00000020950 2925 nt UTR 3 hits 135 501 882  
-----1-----1-----1-----  
-----

>ENSMUSG00000020950 hs-mir-30c 135 142  
UGUAAACAUCUACACUCUCAGC&UCCCCAUUUCUGUACGUUUGUUCAGUCUUUAGGGUUGUUUACU  
(((((((((((((((((((.(.(((.....&.....)))))).)).....)))))))). -17.80

>ENSMUSG00000020950 hs-mir-30c 501 508  
UGUAAACAUCUACACUCUCAGC&UGUCCUUUUCUUUAAAGAACUGUUUCUUUCCUUUUGUUUACU  
(((((((((((((((((((.(.(&.....)))))).)).....)))))))). -12.70

>ENSMUSG00000020950 hs-mir-30c 882 889  
UGUAAACAUCUACACUCUCAGC&UGUGGUCAUAUGCCCGUGUUUGUCACUUACAAAAUGUUUACU  
(((((((((((((((.(.(((.....&.....)))))).)).....)))))))). -13.10

mir-30c ENSRNOG00000004156 2930 nt UTR 3 hits 136 501 883  
-----1-----1-----1-----  
-----

>ENSRNOG00000004156 hs-mir-30c 136 143  
UGUAAACAUCUACACUCUCAGC&CCCCAUUUCUGUACGUUUGUUCAGUCUUUAGGGUUGUUUACU

.((((((((((((((.....((((&.....))))))....)))))). -17.80  
>ENSRNOG00000004156 hs-mir-30c 501 508  
UGUAAACAUCUACACUCUCAGC&UUUGUCCUUUUUUUUUAAAGAACUGUUUUUUUUUUUUUUUUUACU  
.((((((((.....(((&.....))))))....)))))). -13.25  
>ENSRNOG00000004156 hs-mir-30c 883 890  
UGUAAACAUCUACACUCUCAGC&UGUGGUCAUAUGCCCUGUUUGUCACUUACAAAAUGUUUACU  
.((((((((((..(((&.....))))))..))....)))))). -13.10

miRNA: mir-30c

Human predicted target: ENSG00000185112  
Mouse predicted target: ENSMUSG00000046546  
Rat predicted target: ENSRNOG00000001728

Hs Gene description: NM\_153690

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

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

>ENSG00000185112 hs-mir-30c 519 526  
UGUAAACAUCUACACUCUCAGC&UAGCCCUUGGUUCUUUUUGGUGCAAGAAUUCUGGCUGUUUACC  
.((((((((((.....((((&.....))))))....)))))). -15.10

>ENSG00000185112 hs-mir-30c 609 616  
UGUAAACAUCUACACUCUCAGC&UGGGGGGGGGGGGAGAUGAAAGAGAGUCGCGUUUUUGUUUACAG  
((((((((((((((..((((&.....))))))....)))))). -  
24.40

mir-30c ENSMUSG00000046546 2846 nt UTR 4 hits 487 577 1366 1391  
-----1--1-----11-----  
-----

>ENSMUSG00000046546 hs-mir-30c 487 494  
UGUAAACAUCUACACUCUCAGC&CUGCCCCAGUUCUUUCGGAUAGGGGAGCUUUGGCUGUUUACC  
.((((((((((.....((((&.....))))))....)))))). -23.90

>ENSMUSG00000046546 hs-mir-30c 577 584  
UGUAAACAUCUACACUCUCAGC&CUUGGGGGGGGGGCGAGUGUAUGAAAGUCGUGUUUUUGUUUACAG  
((((((((((((((..((((&.....))))))....)))))). -  
21.39

>ENSMUSG00000046546 hs-mir-30c 1366 1373  
UGUAAACAUCUACACUCUCAGC&UUUGGAGAGGUCAGUGUAAAUAACUGCCCACGCUGUUUACAC  
((((((((((.....((((&.....))))))..))....)))))). -  
17.00

>ENSMUSG00000046546 hs-mir-30c 1391 1398  
UGUAAACAUCUACACUCUCAGC&CUGCCCACGCUGUUUACACGAGUCACGUGGAUGGCUGUUUACU  
.((((((((((.....((((&.....))))))....)))))). -19.33

mir-30c ENSRNOG00000001728 2000 nt UTR 3 hits 511 604 1397  
-----1--1-----1-----  
-----

>ENSRNOG00000001728 hs-mir-30c 511 518  
UGUAAACAUCUACACUCUCAGC&CUGCCCCAGUUCUUUUGGAUAUGAGAGCUUUGGCUGUUUACC  
.((((((((((.....((((&.....))))))....)))))). -25.80

>ENSRNOG00000001728 hs-mir-30c 604 611

UGUAAACAUCUACACUCUCAGC&UGGGGGCGGAGGGCGGGGUAUGAAAGUUGUGUUUUGUUUACAG  
(((((((.(.(.(((.((&.....)).))))).))).....)))))))). -  
21.23  
>ENSRNOG0000001728 hs-mir-30c 1397 1404  
UGUAAACAUCUACACUCUCAGC&AAUUCAACUGCCCACACUGUUUAGACGUGUAUGGCUGUUUACU  
(((((((.(.(.(((.((&.....)).))))).))).....)))))))). -23.30

miRNA: mir-30d  
Human predicted target: ENSG00000058600  
Mouse predicted target: ENSMUSG00000030880  
Rat predicted target: ENSRNOG00000016960  
Hs Gene description: DNA-DIRECTED RNA POLYMERASES III 80 KDA POLYPEPTIDE  
(EC 2.7.7.6) (RNA POLYMERASE III SUBUNIT 5) (RPC5).

[Source:SWISSPROT;Acc:Q9NVU0] NM\_018119  
mir-30d ENSG00000058600 2325 nt UTR 2 hits 378 567

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

>ENSG00000058600 hs-mir-30d 378 385  
UGUAAACAUCUACACUCUCAGC&CUUUUGUAAACUUAUGCCAACAAGGUCUAAGUUAUGUUUACAA  
(((((((.(.(.(((.(.....&.....))))).)).....)))))))). -17.00

>ENSG00000058600 hs-mir-30d 567 574  
UGUAAACAUCUACACUCUCAGC&UUUGACAACAACCUACUUAUGUAGCAGUCUCAACUGUUUACAU  
(((((((.(.....(((.(.....&.....))))).)).....)))))))). -18.90

mir-30d ENSMUSG00000030880 2714 nt UTR 2 hits 363 550

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

>ENSMUSG00000030880 hs-mir-30d 363 370  
UGUAAACAUCUACACUCUCAGC&CCUCUUUUAAAUGAAUGCCAACAUAAGUUAAGUAUGUUUACAA  
(((((((.(.(.(((.(.....&.....))))).)).....)))))))). -15.40

>ENSMUSG00000030880 hs-mir-30d 550 557  
UGUAAACAUCUACACUCUCAGC&CUUUUAUAGCAGCCUGCUUUCUGUAGCGGUCUCAACUGUUUACAC  
(((((((.(.....(((.(.....&.....))))).)).....)))))))). -18.10

mir-30d ENSRNOG00000016960 2720 nt UTR 2 hits 367 555

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

>ENSRNOG00000016960 hs-mir-30d 367 374  
UGUAAACAUCUACACUCUCAGC&CCUCUUUUAAAUGAAUGCCAACAUAAGUUAAGUUAUGUUUACAA  
(((((((.(.(.(((.(.....&.....))))).)).....)))))))). -16.30

>ENSRNOG00000016960 hs-mir-30d 555 562  
UGUAAACAUCUACACUCUCAGC&UUAUACAGCAGCCUGCUUUCUGUAGCGGUCUCAACUGUUUACAC  
(((((((.(.....(((.(.....&.....))))).)).....)))))))). -18.10

miRNA: mir-30d  
Human predicted target: ENSG00000074047  
Mouse predicted target: ENSMUSG00000048402  
Rat predicted target: ENSRNOG0000002430

Hs Gene description: ZINC FINGER PROTEIN GLI2 (TAX HELPER PROTEIN).

[Source:SWISSPROT;Acc:P10070] NM\_005270

mir-30d ENSG00000074047 2564 nt UTR 2 hits 771 953

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

>ENSG00000074047 hs-mir-30d 771 778  
UGUAAACAUCCTCCGACUGGAAG&GCAAGCCCAGAAGCUGCCCUGGCCUCUCCAGACCGUGUUUACAG  
((((((((.....(((((&.....)))))).....)))))))). -19.10

>ENSG00000074047 hs-mir-30d 953 960  
UGUAAACAUCCTCCGACUGGAAG&CCCUAGGGAUUCUCAGUAGGAAGAGGAAGUUGCGUGUUUACC  
((((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -18.31

mir-30d ENSMUSG00000048402 3651 nt UTR 3 hits 695 833 1357  
-----1-----1-----1-----

>ENSMUSG00000048402 hs-mir-30d 695 702  
UGUAAACAUCCTCCGACUGGAAG&UUACUAUUGGGGGGGGUACAGGGUCUCUCCUGGCCUGUUUACAG  
((((((((((.....(((((&.....)))))).....)))))).....)))))))). -20.95

>ENSMUSG00000048402 hs-mir-30d 833 840  
UGUAAACAUCCTCCGACUGGAAG&GUGGAAGAGGCCUUCCTCCAGGAAAAGGAAGUCAUAUGUUUACC  
((((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -17.90

>ENSMUSG00000048402 hs-mir-30d 1357 1364  
UGUAAACAUCCTCCGACUGGAAG&CUGGACCCUCUGUGUCCAGGGCAGCAAACUUCUCUGUUUACAA  
((((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -16.84

mir-30d ENSRNOG00000002430 2000 nt UTR 3 hits 657 794 1301  
-----1-----1-----1-----

>ENSRNOG00000002430 hs-mir-30d 657 664  
UGUAAACAUCCTCCGACUGGAAG&AUUUUUUACUAUGGGGGGUGGGGGGCUCUCCUGGCCUGUUUACAG  
((((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -23.30

>ENSRNOG00000002430 hs-mir-30d 794 801  
UGUAAACAUCCTCCGACUGGAAG&GUGAAAGAGGCCUUCCTCCAGGCAAAGGAGGCCGUGUGUUUACC  
((((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -21.20

>ENSRNOG00000002430 hs-mir-30d 1301 1308  
UGUAAACAUCCTCCGACUGGAAG&CUGGACCCUCUGUGUCCGGGCAGCAAACUUCUCUGUUUACAA  
((((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -20.74

miRNA: mir-30d

Human predicted target: ENSG00000090905

Mouse predicted target: ENSMUSG00000030776

Rat predicted target: ENSRNOG00000012884

Hs Gene description: TRINUCLEOTIDE REPEAT CONTAINING 6; EDIE; GW182

AUTOANTIGEN. [Source:RefSeq;Acc:NM\_020847]

mir-30d ENSG00000090905 2979 nt UTR 4 hits 455 746 786 1552

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

>ENSG00000090905 hs-mir-30d 455 462  
UGUAAACAUCCTCCGACUGGAAG&AUCGGCAGUAUGGGGGGCAGCUGUCCAGUGUCAUGUUUACU

.((((((((((((((((((((((.....&.....)))))))).))))). -22.50  
>ENSG00000090905 hs-mir-30d 746 753  
UGUAAACAUCCCGACUGGAAG&CAUUUUGUUUUGGAGGUUCUCACUUUGAACCUUCUUGUUUACAG  
((((((((((((((((((((((.....&.....)))))))).))))). -15.45  
>ENSG00000090905 hs-mir-30d 786 793  
UGUAAACAUCCCGACUGGAAG&ACAGAUUUUUUUGUUUUGUUUUUGAGAAAAAAAAAUGUUUACU  
.((((((((((((((((((((((.....((.....&.....)))))))).))))). -12.34  
>ENSG00000090905 hs-mir-30d 1552 1559  
UGUAAACAUCCCGACUGGAAG&GUCCUAAGAUGCAAAGAAGUCAGUGGCUUUUAACUGUUUACAA  
((((((((((((((((((((((.....((.....&.....)))))))).))))). -16.20  
mir-30d ENSMUSG00000030776 2445 nt UTR 4 hits 78 366 405 1165  
---1-----1-1-----1-----1-----  
-----  
>ENSMUSG00000030776 hs-mir-30d 78 85  
UGUAAACAUCCCGACUGGAAG&AAUCGGCAAUAUGGGGGCAGCUGUCCAGUGUAGAUGUUUACU  
.((((((((((((((((((((((.....&.....)))))))).))))). -26.10  
>ENSMUSG00000030776 hs-mir-30d 366 373  
UGUAAACAUCCCGACUGGAAG&CAUGUUGUUUUGAAGGUUCCACGGUGAACCUUCUUGUUUACAG  
((((((((((((((((((((((.....((.....&.....)))))))).))))). -18.81  
>ENSMUSG00000030776 hs-mir-30d 405 412  
UGUAAACAUCCCGACUGGAAG&UACAGAUUUUUUUGUUUUGUUUUUGAGAAAAAAAAAUGUUUACU  
.((((((((((((((((((((((.....((.....&.....)))))))).))))). -12.92  
>ENSMUSG00000030776 hs-mir-30d 1165 1172  
UGUAAACAUCCCGACUGGAAG&GUCCUAAGAUGCAAAGAAGGUCAGUGGCUUUUAACUGUUUACAA  
((((((((((((((((((((((.....((.....&.....)))))))).))))). -16.20  
mir-30d ENSRNOG00000012884 4340 nt UTR 4 hits 449 736 774 1526  
-----1-----1-----1-----  
-----  
>ENSRNOG00000012884 hs-mir-30d 449 456  
UGUAAACAUCCCGACUGGAAG&UCUCUCCGUCUGGGGGACAGCUGCUCAGUGUAAAUGUUUACU  
.((((((((((((((((((((((.....&.....)))))))).))))). -23.60  
>ENSRNOG00000012884 hs-mir-30d 736 743  
UGUAAACAUCCCGACUGGAAG&CAUGUUGUUUUGAAGGUUCCACGGUGAACCUUCUUGUUUACAG  
((((((((((((((((((((((.....((.....&.....)))))))).))))). -18.81  
>ENSRNOG00000012884 hs-mir-30d 774 781  
UGUAAACAUCCCGACUGGAAG&UUACAGAUUUUUUGUUUUGUUUUUGAGAAAAAAAAAUGUUUACU  
.((((((((((((((((((((((.....((.....&.....)))))))).))))). -12.92  
>ENSRNOG00000012884 hs-mir-30d 1526 1533  
UGUAAACAUCCCGACUGGAAG&GUCCUAAGACGCAAAGAAGGUCAGUGGCUUUUAACUGUUUACAA  
((((((((((((((((((((((.....((.....&.....)))))))).))))). -16.20

miRNA: mir-30d  
Human predicted target: ENSG00000109689  
Mouse predicted target: ENSMUSG00000039156  
Rat predicted target: ENSRNOG0000002956

Hs Gene description: STROMAL INTERACTION MOLECULE 2 PRECURSOR.

[Source:SWISSPROT;Acc:Q9P246] NM\_020860

mir-30d ENSG00000109689 4385 nt UTR 2 hits 371 881

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

>ENSG00000109689 hs-mir-30d 371 378  
UGUAAACAUCCCGACUGGAAG&GACUCGUAAGCCAGCAUGGGGCUUGCAAAAUUUCUUGUUUACC  
.((((((((..(((.((((...&.....))))..))))).))))). -18.23

>ENSG00000109689 hs-mir-30d 881 888  
UGUAAACAUCCCGACUGGAAG&AAGCCGAGGUGGGGGGAUAUGGGGAUUCAGGCAAUUGUUUACAC  
(((((((((((((((..(((.((((...&...))..))))).))))).))))). -23.10

mir-30d ENSMUSG00000039156 2000 nt UTR 2 hits 365 868

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

>ENSMUSG00000039156 hs-mir-30d 365 372  
UGUAAACAUCCCGACUGGAAG&GGACUGUAAGCCAGCAUGGGGCUUGCAAAAUUUCUUGUUUACC  
.((((((((..(((.((((...&.....))))..))))).))))). -18.23

>ENSMUSG00000039156 hs-mir-30d 868 875  
UGUAAACAUCCCGACUGGAAG&UAAACUGCGGUCUGGGGCGUGGGGACCCAGGCACUUGUUUACAG  
(((((((((((((((..(((.(..((..&.....))..))..))))).))))). -25.10

mir-30d ENSRNOG00000002956 2000 nt UTR 2 hits 362 866

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

>ENSRNOG00000002956 hs-mir-30d 362 369  
UGUAAACAUCCCGACUGGAAG&GGACUGUAAGCCAGCAUGGGGCUUGCACAUAUUUCUUGUUUACC  
.((((((((..(((.((((...&.....))))..))))).))))). -18.23

>ENSRNOG00000002956 hs-mir-30d 866 873  
UGUAAACAUCCCGACUGGAAG&UAAACUGAGGUUGGGGGUGUGGGGAUUCAGGCACUUGUUUACAG  
(((((((((((((((..(((.(..((..&.....))..))..))))).))))). -24.96

miRNA: mir-30d

Human predicted target: ENSG00000114353

Mouse predicted target: ENSMUSG00000032562

Rat predicted target: ENSRNOG00000016592

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-30d ENSG00000114353 2567 nt UTR 2 hits 405 682

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

>ENSG00000114353 hs-mir-30d 405 412  
UGUAAACAUCCCGACUGGAAG&CCCAACACCAGCCCCUGCCCCAGCCAAGUCCAAAUGUUUACAG  
((((((((((((..(((.((((...&.....))))..))))).))))). -19.40

>ENSG00000114353 hs-mir-30d 682 689  
UGUAAACAUCCCGACUGGAAG&CUUCCAAGUGACUCCGUGCCUUGAGUGUGUCUGCGUGUUUACAC  
((((((((((((..(((.(..(((..&.....))))..))))).))))). -18.94

```

mir-30d   ENSMUSG00000032562  2992 nt UTR    4 hits 398 683 1880 2165
-----1-----1-----
-1-----1-----
>ENSMUSG00000032562 hs-mir-30d    398    405
UGUAAACAUCCCCGACUGGAAG&GCUUUGUCCAACACCAGCCUGACCCAAGUCCAAAUGUUUACAG
((((((((((....((((((...&.....)))))))).))))). -19.40
>ENSMUSG00000032562 hs-mir-30d    683    690
UGUAAACAUCCCCGACUGGAAG&CUUUCAGCGAUUCCGUGCCUUGAGUGUGUCUGCGUGUUUACAC
((((((((((....(((((&..))))))))).))))). -18.83
>ENSMUSG00000032562 hs-mir-30d   1880   1887
UGUAAACAUCCCCGACUGGAAG&GCUUUGUCCAACACCAGCCUGACCCAAGUCCAAAUGUUUACAG
((((((((((....((((((...&.....)))))))).))))). -19.40
>ENSMUSG00000032562 hs-mir-30d   2165   2172
UGUAAACAUCCCCGACUGGAAG&CUUUCAGCGAUUCCGUGCCUUGAGUGUGUCUGCGUGUUUACAC
((((((((((....(((((&..))))))))).))))). -18.83
mir-30d   ENSRNOG00000016592  2294 nt UTR    2 hits 1202 1486
-----1-----1-----

```

```

>ENSRNOG00000016592 hs-mir-30d   1202   1209
UGUAAACAUCCCCGACUGGAAG&GCUUUGUCCAACACCAGCCUGACCCAAGUCCAAAUGUUUACAG
((((((((((....((((((...&.....)))))))).))))). -19.40
>ENSRNOG00000016592 hs-mir-30d   1486   1493
UGUAAACAUCCCCGACUGGAAG&CUUUCAGUGAUUCCGUGCCUUGAGUGUUUCUGCCUGUUUACAC
((((((((((....((((((&..))))))))).))))). -16.35

```

```

miRNA: mir-30d
Human predicted target: ENSG00000116128
Mouse predicted target: ENSMUSG00000038256
Mouse predicted target: ENSMUSG00000046063
Rat predicted target: ENSRNOG00000017516
Rat predicted target: ENSRNOG00000017541
Hs Gene description: B-CELL LYMPHOMA 9 PROTEIN (BCL-9) (LEGLess HOMOLOG).
[Source:SWISSPROT;Acc:O00512] NM_004326
mir-30d   ENSG00000116128    2000 nt UTR    2 hits 329 486
-----1-----1-----

```

```

>ENSG00000116128 hs-mir-30d    329    336
UGUAAACAUCCCCGACUGGAAG&AUUGCCAUCGGUCAUGUGUUGCACCGUUCUCUGUAUGUUUACGU
((((((((((....((((((...&.....))))))))).))))). -17.49
>ENSG00000116128 hs-mir-30d    486    493
UGUAAACAUCCCCGACUGGAAG&GUCUUGGGGCAAGAGGAGAACAGGAAUGCUGGGCUGUUUACU
.((((((((((....(((((&..)))))).))))).))))). -18.70
mir-30d   ENSMUSG00000038256  3200 nt UTR    2 hits 322 490
-----1-----1-----

```

```

>ENSMUSG00000038256 hs-mir-30d    322    329
UGUAAACAUCCCCGACUGGAAG&GAGAAUUGCCAUCGGUCAUGUGUUGCACCGUUCUGUGUUUACGU

```



(((((((((..(((.(...&.....)))))).....)))))))). -17.60  
>ENSMUSG00000038256 hs-mir-30d 490 497

UGUAAACAUCCTCCGACUGGAAG&GUCUUUGGGGCAAGAGGAGAACAGGAAUGCUGGGCUGUUUACU  
.(((((((..(((.(...&.....)))))).....)))))))). -18.70  
mir-30d ENSMUSG00000046063 2001 nt UTR 1 hits 1378

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

>ENSMUSG00000046063 hs-mir-30d 1378 1385  
UGUAAACAUCCTCCGACUGGAAG&GAGCUGGUACAAGGCAAAGCAGGAGCAUUGUAAAGUGUUUACU  
.(((((((..(((.(...&.....)))))).....)))))))). -14.75  
mir-30d ENSRNOG00000017516 2000 nt UTR 2 hits 327 543

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

>ENSRNOG00000017516 hs-mir-30d 327 334  
UGUAAACAUCCTCCGACUGGAAG&GAUUCGCCAUCGGUCAUGUCUUGCACCGUUCUCUGUGUUUACGU  
((((((((..(((.(...&.....)))))).....)))))))). -17.50

>ENSRNOG00000017516 hs-mir-30d 543 550  
UGUAAACAUCCTCCGACUGGAAG&GUCUUUGGGGCAAGAGGAGAACAGGAAUGCUGGGCUGUUUACU  
.(((((((..(((.(...&.....)))))).....)))))))). -18.70  
mir-30d ENSRNOG00000017541 2573 nt UTR 1 hits 2172

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

>ENSRNOG00000017541 hs-mir-30d 2172 2179  
UGUAAACAUCCTCCGACUGGAAG&AUUAUUUCAAGUUGUUGGAUGCAAUGAGUUUUGUUUACC  
.((((((((..(((.(...&.....)))))).....)))))))). -17.16

miRNA: mir-30d  
Human predicted target: ENSG00000126003  
Mouse predicted target: ENSMUSG00000051413  
Mouse predicted target: ENSMUSG00000045985  
Rat predicted target: ENSRNOG00000010086  
Hs Gene description: ZINC FINGER PROTEIN PLAGL2 (PLEIOMORPHIC ADENOMA-LIKE  
PROTEIN 2). [Source:SWISSPROT;Acc:Q9UPG8] NM\_002657  
mir-30d ENSG00000126003 5948 nt UTR 2 hits 655 742

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

>ENSG00000126003 hs-mir-30d 655 662  
UGUAAACAUCCTCCGACUGGAAG&CAAGCUGUUAGCCUUAGAGUGAUUGCAGUGAACACUGUUUACAC  
((((((((.....(((.(...&.....)))))).....)))))))). -16.50

>ENSG00000126003 hs-mir-30d 742 749  
UGUAAACAUCCTCCGACUGGAAG&CUGAACCAUUUGGUACCUGGUGUUAACUGGAGUCCUGUUUACAA  
(((((((((((..(((.(...&.....)))))).....)))))))). -19.06  
mir-30d ENSMUSG00000051413 5720 nt UTR 2 hits 637 724

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

-----  
-----  
>ENSMUSG00000051413 hs-mir-30d 637 644  
UGUAAACAUCCTCCGACUGGAAG&GCCACACUGUUAGCCUUAGUGAUUGCAGUGAACACUGUUUACAC  
((((((((.....((((((.&.....)))))).....)))))))). -16.50  
>ENSMUSG00000051413 hs-mir-30d 724 731  
UGUAAACAUCCTCCGACUGGAAG&CUGAACACUCGGUACCUGGUGUUAACUGGAGCCUGUUUACAA  
((((((((((((((((((.&.....)))))).....)))))).....)))))))). -21.16  
mir-30d ENSMUSG00000045985 5720 nt UTR 2 hits 637 724  
-----1--1-----  
-----  
-----

-----  
-----  
>ENSMUSG00000045985 hs-mir-30d 637 644  
UGUAAACAUCCTCCGACUGGAAG&GCCACACUGUUAGCCUUAGUGAUUGCAGUGAACACUGUUUACAC  
((((((((.....((((((.&.....)))))).....)))))))). -16.50  
>ENSMUSG00000045985 hs-mir-30d 724 731  
UGUAAACAUCCTCCGACUGGAAG&CUGAACACUCGGUACCUGGUGUUAACUGGAGCCUGUUUACAA  
((((((((((((((((((.&.....)))))).....)))))).....)))))))). -21.16  
mir-30d ENSRNOG00000010086 2000 nt UTR 2 hits 642 729  
-----1--1-----  
-----  
-----

-----  
-----  
>ENSRNOG00000010086 hs-mir-30d 642 649  
UGUAAACAUCCTCCGACUGGAAG&CACACUGUUAGCCUUAGAGUGAUUGCAGUGAACACUGUUUACAC  
((((((((.....((((((.&.....)))))).....)))))))). -16.50  
>ENSRNOG00000010086 hs-mir-30d 729 736  
UGUAAACAUCCTCCGACUGGAAG&CUGAACACUCGGUACCUGGUGUUAACUGGAGCCUGUUUACAA  
((((((((((((((((((.&.....)))))).....)))))).....)))))))). -21.16

miRNA: mir-30d  
Human predicted target: ENSG00000131914  
Mouse predicted target: ENSMUSG00000050966  
Rat predicted target: ENSRNOG00000015384  
Hs Gene description: RNA-BINDING PROTEIN LIN-28.  
[Source:RefSeq;Acc:NM\_024674] NM\_024674

mir-30d ENSG00000131914 4115 nt UTR 2 hits 1703 2958  
-----1-----  
-----1-----  
-----  
-----

-----  
-----  
>ENSG00000131914 hs-mir-30d 1703 1710  
UGUAAACAUCCTCCGACUGGAAG&AUGUAUUGGUCUUUCUCCGUGUUCUUUGGGGUUUUGUUUACAA  
((((((((((((((((((.&.....)))))).....)))))).....)))))))). -24.70  
>ENSG00000131914 hs-mir-30d 2958 2965  
UGUAAACAUCCTCCGACUGGAAG&GAUUGUUUAAUAGGAGACGAAUGUAACUCCAUGUUUACU  
((((((((((((((((((.&.....)))))).....)))))).....)))))))). -12.80  
mir-30d ENSMUSG00000050966 4775 nt UTR 2 hits 1780 2473

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

>ENSMUSG00000050966 hs-mir-30d 1780 1787  
UGUAAACAUCCTCCGACUGGAAG&AAUGUGUUGGUCUUCAUGUUCUUUUGGGGUUUUAUUGUUUACAA  
(((((((((((((.....&.....)))))))).))))). -23.70  
>ENSMUSG00000050966 hs-mir-30d 2473 2480  
UGUAAACAUCCTCCGACUGGAAG&AGAUUGUUACUAGGAGACGGACGAAUGUAUCUCCAUGUUUACU  
(((((((((((((.....&.....)))))))).))))). -15.73  
mir-30d ENSRNOG00000015384 2000 nt UTR 2 hits 1306 1974  
-----1-----

----1-  
>ENSRNOG00000015384 hs-mir-30d 1306 1313  
UGUAAACAUCCTCCGACUGGAAG&AAUGUGUUGGUCUUCAUGUUCUUUUGGGGUUUUAUUGUUUACAA  
(((((((((((((.....&.....)))))))).))))). -23.70  
>ENSRNOG00000015384 hs-mir-30d 1974 1981  
UGUAAACAUCCTCCGACUGGAAG&AGAUUGUUACUAGGAGACGGACGAAUGUAUCUCCAUGUUUACU  
(((((((((((((.....&.....)))))))).))))). -15.73

miRNA: mir-30d  
Human predicted target: ENSG00000132130  
Mouse predicted target: ENSMUSG00000018698  
Rat predicted target: ENSRNOG00000002812  
Hs Gene description: LIM/HOMEBOX PROTEIN LHX1 (HOMEBOX PROTEIN LIM-1).  
[Source:SWISSPROT;Acc:P48742] NM\_005568  
mir-30d ENSG00000132130 2000 nt UTR 2 hits 845 1028  
-----1-----1-----

-----  
>ENSG00000132130 hs-mir-30d 845 852  
UGUAAACAUCCTCCGACUGGAAG&AAAAAAGAAAGACUAUUGAACUAAAAACAGUCAACUGUUUACGU  
(((((((((((((.....&.....)))))))).))))). -17.70  
>ENSG00000132130 hs-mir-30d 1028 1035  
UGUAAACAUCCTCCGACUGGAAG&CUUUCGGCUCACUGUGCUAGUAUGUAAAAAGGUGUUGUUUACAC  
(((((((((((((.....&.....)))))))).))))). -17.95  
mir-30d ENSMUSG00000018698 2170 nt UTR 2 hits 938 1119  
-----1-----1-----

-----  
>ENSMUSG00000018698 hs-mir-30d 938 945  
UGUAAACAUCCTCCGACUGGAAG&AAAAAGAAAAGACUAUCGAACUAAAAACAGUCAACUGUUUACGU  
(((((((((((((.....&.....)))))))).))))). -17.70  
>ENSMUSG00000018698 hs-mir-30d 1119 1126  
UGUAAACAUCCTCCGACUGGAAG&CUUGCGGCUCACUGUGCUAGUAUGUAAAAAGGUGUUGUUUACAC  
(((((((((((((.....&.....)))))))).))))). -18.30  
mir-30d ENSRNOG00000002812 2086 nt UTR 2 hits 943 1126  
-----1-----1-----

-----  
>ENSRNOG00000002812 hs-mir-30d 943 950

UGUAAACAUCCTCCGACUGGAAG&AAAAAAAAAAGACUAUUGAACUAAAAACAGUCAACUGUUUACGU  
((((((((.....((((.....&.....))))))....)))))))). -17.70  
>ENSRNOG0000002812 hs-mir-30d 1126 1133  
UGUAAACAUCCTCCGACUGGAAG&CUUGCGGCUCACUGUGCUAGUAUGUAAAAAGGUGUUGUUUACAC  
((((((((.....((((.....&.....))))))....)))))))). -18.30

miRNA: mir-30d

Human predicted target: ENSG00000144580

Mouse predicted target: ENSMUSG00000026174

Rat predicted target: ENSRNOG00000016034

Hs Gene description: RCD1 REQUIRED FOR CELL DIFFERENTIATION1 HOMOLOG;  
PROTEIN INVOLVED IN SEXUAL DEVELOPMENT; RCD1 (REQUIRED FOR CELL  
DIFFERENTIATION, S.POMBE) HOMOLOG 1. [Source:RefSeq;Acc:NM\_005444]

mir-30d ENSG00000144580 2000 nt UTR 2 hits 464 557

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

>ENSG00000144580 hs-mir-30d 464 471  
UGUAAACAUCCTCCGACUGGAAG&ACUCAAGAUUUGUCUCUUAUUCUCUCUCAGUAUUUGUUUACU  
((((((((.....((((.....&.....))))))....)))))))). -17.00

>ENSG00000144580 hs-mir-30d 557 564  
UGUAAACAUCCTCCGACUGGAAG&GCUGUAAUAUUCAGCAAACUUUGUCGACUGGCACUGUUUACAA  
((((((((.....((((.....&.....))))))....)))))))). -17.70

mir-30d ENSMUSG00000026174 3987 nt UTR 2 hits 453 548

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

>ENSMUSG00000026174 hs-mir-30d 453 460  
UGUAAACAUCCTCCGACUGGAAG&UUAAGGUGUGUCUCUUAUUCUCUCUUAACAGUAUUUGUUUACU  
((((((((.....((((.....&.....))))))....)))))))). -15.70

>ENSMUSG00000026174 hs-mir-30d 548 555  
UGUAAACAUCCTCCGACUGGAAG&GCUGUAGUUCUCAGCAAACUUUGUCAGUUGGCACUGUUUACAA  
((((((((.....((((.....&.....))))))....)))))))). -23.70

mir-30d ENSRNOG00000016034 2004 nt UTR 2 hits 479 574

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

>ENSRNOG00000016034 hs-mir-30d 479 486  
UGUAAACAUCCTCCGACUGGAAG&AAGGUGUGUCUCUUAUUCUCUCUCACACAGUAUUUGUUUACU  
((((((((.....((((.....&.....))))))....)))))))). -15.50

>ENSRNOG00000016034 hs-mir-30d 574 581  
UGUAAACAUCCTCCGACUGGAAG&GCUGUAGUUUUCAGCAAACUUUGUCAGUUGGCACUGUUUACAC  
((((((((.....((((.....&.....))))))....)))))))). -23.40

miRNA: mir-30d

Human predicted target: ENSG00000151239

Mouse predicted target: ENSMUSG00000022451

Rat predicted target: ENSRNOG00000012595

Hs Gene description: PTK9 PROTEIN TYROSINE KINASE 9; PROTEIN TYROSINE KINASE 9. [Source:RefSeq;Acc:NM\_002822] NM\_002822

mir-30d ENSG00000151239 3862 nt UTR 2 hits 1322 1385

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

>ENSG00000151239 hs-mir-30d 1322 1329  
UGUAAACAUCCTCCGACUGGAAG&UUUAAAUAAGAAUUUAGAGUAAUUGGGUUUUGUUUGUUUACAA  
(((((((((((((.....&.....)))))).....))))). -21.00

>ENSG00000151239 hs-mir-30d 1385 1392  
UGUAAACAUCCTCCGACUGGAAG&UAAACAUGCAAAAUAACUGACAAUAUGUUGCACUUGUUUACU  
(((((((((((((.....&.....)))))).....))))). -14.50

mir-30d ENSMUSG00000022451 2732 nt UTR 3 hits 1355 1418 1740  
-----1-1-----1-----

>ENSMUSG00000022451 hs-mir-30d 1355 1362  
UGUAAACAUCCTCCGACUGGAAG&UUUUUAAAUAAGAAUUUAGAUUAAUUGUGUUUUGUUUGUUUACAA  
(((((((((((((.....&.....)))))).....))))). -14.80

>ENSMUSG00000022451 hs-mir-30d 1418 1425  
UGUAAACAUCCTCCGACUGGAAG&UACAUAUGCAGGACAGUCGACAGUGACGUCACACUUGUUUACGA  
(((((((((((((.....&.....)))))).....))))). -18.05

>ENSMUSG00000022451 hs-mir-30d 1740 1747  
UGUAAACAUCCTCCGACUGGAAG&AAUCACGUAUGCAUUUGUUUAGGGUAUAACUCAUUGUUUACAC  
(((((((((((((.....&.....)))))).....))))). -14.50

mir-30d ENSRNOG00000012595 2000 nt UTR 3 hits 1309 1372 1675  
-----1-1-----1-----

>ENSRNOG00000012595 hs-mir-30d 1309 1316  
UGUAAACAUCCTCCGACUGGAAG&UGGAAGUUUUUAAAUAAGAAUUUUGUGUUUUGUUUGUUUACAA  
(((((((((((((.....&.....)))))).....))))). -14.80

>ENSRNOG00000012595 hs-mir-30d 1372 1379  
UGUAAACAUCCTCCGACUGGAAG&UAAAUAUGCAGGAGAGUUGAUGGUAUUGUUGCUCUUGUUUACGA  
(((((((((((((.....&.....)))))).....))))). -15.10

>ENSRNOG00000012595 hs-mir-30d 1675 1682  
UGUAAACAUCCTCCGACUGGAAG&AAUCACGUAUGCAUUUGUCUUAGGGAAUAACCCAUGUUUACAG  
(((((((((((((.....&.....)))))).....))))). -18.30

miRNA: mir-30d

Human predicted target: ENSG00000172819

Mouse predicted target: ENSMUSG00000001288

Rat predicted target: ENSRNOG00000012499

Hs Gene description: RETINOIC ACID RECEPTOR GAMMA-1 (RAR-GAMMA-1).

[Source:SWISSPROT;Acc:P13631]

mir-30d ENSG00000172819 3107 nt UTR 2 hits 855 1028

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

>ENSG00000172819 hs-mir-30d 855 862

```
UGUAAACAUC3CCCGACUGGAAG&GACCCAGAGGAAGCCUCUAUUUAUUUAUUAGCUUUUGUUUACAC
((((((((((.....(((...&...)))))).)).....)))))))). -16.15
>ENSG00000172819 hs-mir-30d 1028 1035
UGUAAACAUC3CCCGACUGGAAG&UCUCUUGGGGGGUCAGGGUGCUGUCCCCUCCCCUCUGUUUACAU
((((((((((.....(((...&...)))))).)).....)))))))). -20.15
mir-30d ENSMUSG0000001288 2000 nt UTR 2 hits 919 1093
-----1-----1-----1-----
-----
>ENSMUSG0000001288 hs-mir-30d 919 926
UGUAAACAUC3CCCGACUGGAAG&GACCCAGAGGAAGCCUCUAUUUAUUUAUUAGCUUUUGUUUACAC
((((((((((.....(((...&...)))))).)).....)))))))). -16.15
>ENSMUSG0000001288 hs-mir-30d 1093 1100
UGUAAACAUC3CCCGACUGGAAG&UUCUCUGGGGGGUAGGGUGCUGUCCCCUCCCCUCUGUUUACAU
((((((((((.....(((...&...)))))).)).....)))))))). -19.60
mir-30d ENSRNOG00000012499 2000 nt UTR 3 hits 836 1010 1401
-----1-----1-----1-----
-----
>ENSRNOG00000012499 hs-mir-30d 836 843
UGUAAACAUC3CCCGACUGGAAG&ACCCAGAGGAAGGCCUCUAUUUAUUUAUUAGCUUUUGUUUACAC
((((((((((.....(((...&...)))))).)).....)))))))). -16.80
>ENSRNOG00000012499 hs-mir-30d 1010 1017
UGUAAACAUC3CCCGACUGGAAG&UUCUCUGGGGGGUAGGGUGCUGUCCCCUCCCCUCUGUUUACAU
((((((((((.....(((...&...)))))).)).....)))))))). -19.60
>ENSRNOG00000012499 hs-mir-30d 1401 1408
UGUAAACAUC3CCCGACUGGAAG&GAUCCUGUGGGUUCAUGCUACUAUGCCUAGGCAUGUGUUUACC
((((((((((.....(((...&...)))))).)).....)))))))). -18.26
```

miRNA: mir-30d

Human predicted target: ENSG00000176165

Mouse predicted target: ENSMUSG00000020950

Rat predicted target: ENSRNOG00000004156

Hs Gene description: FORKHEAD BOX PROTEIN G1B (FORKHEAD-RELATED PROTEIN FKHL1) (TRANSCRIPTION FACTOR BF-1) (BRAIN FACTOR 1) (BF1) (HFK1).

[Source:SWISSPROT;Acc:P55315] NM\_005249

mir-30d ENSG00000176165 2922 nt UTR 3 hits 505 874 1476

```
-----1-----1-----1-----
-----
>ENSG00000176165 hs-mir-30d 505 512
UGUAAACAUC3CCCGACUGGAAG&UGUCCUUUUUUUUAAGAACUGUUUUUUUUUCUUUUGUUUACU
((((((((((.....(((...&...)))))).)).....)))))))). -11.30
>ENSG00000176165 hs-mir-30d 874 881
UGUAAACAUC3CCCGACUGGAAG&UGUGGUCAUAUGCCCGUGUUUGUCACUACAAAAUGUUUACU
((((((((((.....&.....)))))))). -11.80
>ENSG00000176165 hs-mir-30d 1476 1483
UGUAAACAUC3CCCGACUGGAAG&UUUAUACUUUCUAAGUCAGCAUUUAUUUUUGUGGCUGUUUACC
((((((((((.....(((...&...)))))).)).....)))))))). -16.51
mir-30d ENSMUSG00000020950 2925 nt UTR 3 hits 135 501 882
```

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

```

>ENSMUSG00000020950 hs-mir-30d    135    142
UGUAAACAUCCTCCGACUGGAAG&UCCCAUUCUGUACGUUUGUUCAGUCUUUAGGGUUGUUUACU
.(((((((.....(((((.....&.....)))))).....))))). -25.20
>ENSMUSG00000020950 hs-mir-30d    501    508
UGUAAACAUCCTCCGACUGGAAG&UGUCCUUUUUCUUUAAAGAACUGUUUCUUUCCUUUUGUUUACU
.(((((((.....(((((&.....))))).)).....))))). -13.20
>ENSMUSG00000020950 hs-mir-30d    882    889
UGUAAACAUCCTCCGACUGGAAG&UGUGGUCAUAUGCCCGUGUUUGUCACUUACAAAAUGUUUACU
.(((((((.....&.....)))))))). -11.80
mir-30d    ENSRNOG00000004156    2930 nt UTR    3 hits 136 501 883

```

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

```

>ENSRNOG00000004156 hs-mir-30d    136    143
UGUAAACAUCCTCCGACUGGAAG&CCCCAUUCUGUACGUUUGUUCAGUCUUUAGGGUUGUUUACU
.(((((((.....(((((.....&.....)))))).....))))). -25.20
>ENSRNOG00000004156 hs-mir-30d    501    508
UGUAAACAUCCTCCGACUGGAAG&UUUGUCCUUUUCUUUAAAGAACUGUUUUUUUCUUUUGUUUACU
.(((((((.....(((((&.....))))).)).....))))). -10.90
>ENSRNOG00000004156 hs-mir-30d    883    890
UGUAAACAUCCTCCGACUGGAAG&UGUGGUCAUAUGCCCGUGUUUGUCACUUACAAAAUGUUUACU
.(((((((.....&.....)))))))). -11.80

```

miRNA: mir-30d

Human predicted target: ENSG00000181915  
 Mouse predicted target: ENSMUSG00000043176  
 Rat predicted target: ENSRNOG00000000639  
 Hs Gene description: NM\_032804

mir-30d ENSG00000181915 4611 nt UTR 2 hits 1330 3218

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

```

>ENSG00000181915 hs-mir-30d    1330    1337
UGUAAACAUCCTCCGACUGGAAG&UUUUUGUGCUUUUAAUAGUCCGAGCAGUCUUACCUUGUUUACAC
(((((((.....(((((.....&.....)))))).....))))). -18.90
>ENSG00000181915 hs-mir-30d    3218    3225
UGUAAACAUCCTCCGACUGGAAG&UAUAGAUUUGAAUCUUCAAACCCAAAUCUGGGGAUGUUUACAU
(((((((.....(((((.....&.....))))).)).....))))). -29.00
mir-30d    ENSMUSG00000043176    2000 nt UTR    2 hits 1477 1526

```

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

```

>ENSMUSG00000043176 hs-mir-30d    1477    1484
UGUAAACAUCCTCCGACUGGAAG&GUAUUAUGGCUGGCGGAGGCUCAGCCCCUUUACCAUGUUUACAG
(((((((.....(((((.....&.....))..))))).)).....))))). -20.86
>ENSMUSG00000043176 hs-mir-30d    1526    1533
UGUAAACAUCCTCCGACUGGAAG&UCUAUCGAUUCUGACCAUGGACCACCAGUUUCCCGUUUACU

```

.(((((((.....((((((...&.....)))))).....))))). -19.50  
mir-30d ENSRNOG0000000639 2000 nt UTR 2 hits 1498 1550

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

>ENSRNOG0000000639 hs-mir-30d 1498 1505  
UGUAAACAUCCTCCGACUGGAAG&GCAUUAUGGCCAGCAGAGGCUCGGCACGUUUGCCAUGUUUACAG  
(((((((((((((.....)))))).....))))). -19.46  
>ENSRNOG0000000639 hs-mir-30d 1550 1557  
UGUAAACAUCCTCCGACUGGAAG&ACACUAGAUUCUAGCCAUGGACCACCAGUUUCCUGUUUACU  
.(((((((.....((((((...&.....)))))).....))))). -19.50

miRNA: mir-30d  
Human predicted target: ENSG00000185112  
Mouse predicted target: ENSMUSG00000046546  
Rat predicted target: ENSRNOG00000001728  
Hs Gene description: NM\_153690

mir-30d ENSG00000185112 2445 nt UTR 2 hits 519 609  
-----1-1-----

>ENSG00000185112 hs-mir-30d 519 526  
UGUAAACAUCCTCCGACUGGAAG&UAGCCCUUGGUUCUUUUUGGUGCAAGAAUUCUGGCUGUUUACC  
.(((((((.....((((((...&.....)))))).....))))). -17.80

>ENSG00000185112 hs-mir-30d 609 616  
UGUAAACAUCCTCCGACUGGAAG&UGGGGGGUGGGGGGAGAUGAAAGAGAGUCGCGUUUUGUUUACAG  
(((((((((((((.....&.....)))))).....))))). -22.59

mir-30d ENSMUSG00000046546 2846 nt UTR 4 hits 487 577 1366 1391  
-----1-1-----11-----

>ENSMUSG00000046546 hs-mir-30d 487 494  
UGUAAACAUCCTCCGACUGGAAG&CUGCCCCAGUUCUUUCGGAUAGGGGAGCUUGGGCUGUUUACC  
.(((((((.....((((((...&.....)))))).....))))). -25.20

>ENSMUSG00000046546 hs-mir-30d 577 584  
UGUAAACAUCCTCCGACUGGAAG&CUUGGGGGGGGGGGCAGUGUAUGAAAGUCGUGUUUUGUUUACAG  
(((((((((((((.....&.....)))))).....))))). -21.19

>ENSMUSG00000046546 hs-mir-30d 1366 1373  
UGUAAACAUCCTCCGACUGGAAG&UUUGGAGAGGUCAGUGUAAAUUCAACUGCCCACGCUGUUUACAC  
(((((((((((((.....((...&.....)))))).....))))). -13.40

>ENSMUSG00000046546 hs-mir-30d 1391 1398  
UGUAAACAUCCTCCGACUGGAAG&CUGCCCACGCUGUUUACACGAGUCACGUGGAUGGCUGUUUACU  
.(((((((.....((((((...&.....)))))).....))))). -19.20

mir-30d ENSRNOG00000001728 2000 nt UTR 3 hits 511 604 1397  
-----1-1-----1-----

>ENSRNOG00000001728 hs-mir-30d 511 518  
UGUAAACAUCCTCCGACUGGAAG&CUGCCCCAGUUCUUUUGGAUUAUGAGAGCUUGGGCUGUUUACC  
.(((((((.....((((((...&.....)))))).....))))). -21.35

>ENSRNOG00000001728 hs-mir-30d 604 611



UGUAAACAUCCCGACUGGAAG&UGGGGGGCGGAGGGCGGGGUAUGAAAGUUGUGUUUUGUUUACAG  
(((((((((((((...&.....)))))).....))))). -21.73  
>ENSRNOG0000001728 hs-mir-30d 1397 1404  
UGUAAACAUCCCGACUGGAAG&AAUUCAACUGCCCACACUGUUUAGACGUGUAUGGCUGUUUACU  
(((((((((((((...&.....)))))).....))))). -16.30

miRNA: mir-30e

Human predicted target: ENSG00000058600

Mouse predicted target: ENSMUSG00000030880

Rat predicted target: ENSRNOG00000016960

Hs Gene description: DNA-DIRECTED RNA POLYMERASES III 80 KDA POLYPEPTIDE  
(EC 2.7.7.6) (RNA POLYMERASE III SUBUNIT 5) (RPC5).

[Source:SWISSPROT;Acc:Q9NVU0] NM\_018119

mir-30e ENSG00000058600 2325 nt UTR 2 hits 378 567

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

>ENSG00000058600 hs-mir-30e 378 385  
UGUAAACAUCUUGACUGG&CUUUUGUAAACUUAUGCCAACAAGGUCUAAGUUAUGUUUACAA  
(((((((((((((...&.....)))))).....))))). -18.90

>ENSG00000058600 hs-mir-30e 567 574  
UGUAAACAUCUUGACUGG&UUUGACAACAACCUACUUUAUGUAGCAGUCUCAACUGUUUACAU  
(((((((((((((...&.....)))))).....))))). -19.60

mir-30e ENSMUSG00000030880 2714 nt UTR 2 hits 363 550

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

>ENSMUSG00000030880 hs-mir-30e 363 370  
UGUAAACAUCUUGACUGG&CCUCUUUUAAAUGAAUGCCAACAUAAGUUAAGAUUAUGUUUACAA  
(((((((((((((...&.....)))))).....))))). -17.80

>ENSMUSG00000030880 hs-mir-30e 550 557  
UGUAAACAUCUUGACUGG&CUUUUAUAGCAGCCUGCUUUCUGUAGCGGUCUCAACUGUUUACAC  
(((((((((((((...&.....)))))).....))))). -18.80

mir-30e ENSRNOG00000016960 2720 nt UTR 2 hits 367 555

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

>ENSRNOG00000016960 hs-mir-30e 367 374  
UGUAAACAUCUUGACUGG&CCUCUUUUAAAUGAAUGCCAACAUAAGUUAAGUUAUGUUUACAA  
(((((((((((((...&.....)))))).....))))). -17.80

>ENSRNOG00000016960 hs-mir-30e 555 562  
UGUAAACAUCUUGACUGG&UUUAUACAGCAGCCUGCUUUCUGUAGCGGUCUCAACUGUUUACAC  
(((((((((((((...&.....)))))).....))))). -18.80

miRNA: mir-30e

Human predicted target: ENSG00000074047

Mouse predicted target: ENSMUSG00000048402

Rat predicted target: ENSRNOG00000002430

Hs Gene description: ZINC FINGER PROTEIN GLI2 (TAX HELPER PROTEIN).  
[Source:SWISSPROT;Acc:P10070] NM\_005270

mir-30e ENSG00000074047 2564 nt UTR 2 hits 771 953

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

>ENSG00000074047 hs-mir-30e 771 778  
UGUAAACAUCUUGACUGG&GCAAGCCAGAAGCUGCCCUGGCCUCUCCAGACCGUGUUUACAG  
((((((((.....(((&.....)))))).....))))). -16.40

>ENSG00000074047 hs-mir-30e 953 960  
UGUAAACAUCUUGACUGG&CCCUAGGGAUCUCUCAGUAGGAAGAGGAAGUUGCGUGUUUACC  
.((((((((((((((.....)))))).....))))). -17.71

mir-30e ENSMUSG00000048402 3651 nt UTR 3 hits 695 833 1357

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

>ENSMUSG00000048402 hs-mir-30e 695 702  
UGUAAACAUCUUGACUGG&UUACUAUUGGGGGGGGUACAGGGGUCUCUCCUGGCCUGUUUACAG  
((((((((((.....(((&.....)))))).....))))). -17.82

>ENSMUSG00000048402 hs-mir-30e 833 840  
UGUAAACAUCUUGACUGG&GUGGAAGAGGCCUUCGCCAGGAAAAGGAAGUCAUAUGUUUACC  
.((((((((((((((.....)))))).....))))). -19.71

>ENSMUSG00000048402 hs-mir-30e 1357 1364  
UGUAAACAUCUUGACUGG&CUGGACCCUCUGUGUCCAGGGCAGCAAACUUCUCUGUUUACAA  
((((((((((((((.....(((&.....)))))).....))))). -15.31

mir-30e ENSRNOG00000002430 2000 nt UTR 3 hits 657 794 1301

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

>ENSRNOG00000002430 hs-mir-30e 657 664  
UGUAAACAUCUUGACUGG&AUUUUUUACUAUGGGGGGUGGGGGGCUCUCCUGGCCUGUUUACAG  
((((((((((((((.....(((&.....)))))).....))))). -18.70

>ENSRNOG00000002430 hs-mir-30e 794 801  
UGUAAACAUCUUGACUGG&GUGAAAGAGGCCUUCGCCAGGCAAAGGAGGCCGUGUGUUUACC  
.((((((((((((((.....)))))).....))))). -20.01

>ENSRNOG00000002430 hs-mir-30e 1301 1308  
UGUAAACAUCUUGACUGG&CUGGACCCUCUGUGUCCGGGGCAGCAAACUUCUCUGUUUACAA  
((((((((((((((.....(((&.....)))))).....))))). -16.61

miRNA: mir-30e  
Human predicted target: ENSG00000076321  
Mouse predicted target: ENSMUSG00000026705  
Rat predicted target: ENSRNOG00000002875  
Hs Gene description: KELCH-LIKE PROTEIN X. [Source:SWISSPROT;Acc:Q9Y2M5]  
NM\_014458

mir-30e ENSG00000076321 2000 nt UTR 2 hits 1308 1368

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

>ENSG00000076321 hs-mir-30e 1308 1315  
UGUAAACAUCUUGACUGG&CCUUUCCCAACUACAAAAAUGUUUGGCAACUUUGUGUUUACAU

((((((((((...((...(&.....))....)))))))). -14.60  
>ENSG00000076321 hs-mir-30e 1368 1375  
UGUAAACAUCUUGACUGG&CCUUUUUCAAGGAAAAAAGUAUUGAGUAAACAAUUGUUUACAU  
((((((((((...((...(&.....))....)))))))). -18.54  
mir-30e ENSMUSG00000026705 4031 nt UTR 2 hits 1899 1962

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

>ENSMUSG00000026705 hs-mir-30e 1899 1906  
UGUAAACAUCUUGACUGG&ACCUUUACCUUCUCCUCUCCCGGCACCUUUUGUGUUUACAU  
((((((((((...((...(&.....))....)))))))). -14.10  
>ENSMUSG00000026705 hs-mir-30e 1962 1969  
UGUAAACAUCUUGACUGG&UUUUCAAGGAAAAAUAAGUAUUUGGUAACAAUUGUUUACAU  
((((((((((...((...(&.....))....)))))))). -18.31  
mir-30e ENSRNOG00000002875 2000 nt UTR 3 hits 1148 1799 1861

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

>ENSRNOG00000002875 hs-mir-30e 1148 1155  
UGUAAACAUCUUGACUGG&GGACUCAGAUGCACGAUCUGCAUUCACUGGGUGUUUACAU  
((((((((((...((...(&.....))....)))))))). -21.20  
>ENSRNOG00000002875 hs-mir-30e 1799 1806  
UGUAAACAUCUUGACUGG&AACCUUUACCUUCUCCUCUCCCGGCACCUUCUGUGUUUACAU  
((((((((((...((...(&.....))....)))))))). -16.70  
>ENSRNOG00000002875 hs-mir-30e 1861 1868  
UGUAAACAUCUUGACUGG&UUUUUCAAGGAAAAAUAAGUAUUUGGUGAACAGUUGUUUACAU  
((((((((((...((...(&.....))....)))))))). -18.35

miRNA: mir-30e

Human predicted target: ENSG00000090905

Mouse predicted target: ENSMUSG00000030776

Rat predicted target: ENSRNOG00000012884

Hs Gene description: TRINUCLEOTIDE REPEAT CONTAINING 6; EDIE; GW182  
AUTOANTIGEN. [Source:RefSeq;Acc:NM\_020847]

mir-30e ENSG00000090905 2979 nt UTR 4 hits 455 746 786 1552  
-----1-----1-1-----1-----

>ENSG00000090905 hs-mir-30e 455 462  
UGUAAACAUCUUGACUGG&AUCGGCAGUAUGGGGGGCAGCUGUCCAGUGUCAUGUUUACU  
.((((((((((...((...(&.....))....)))))))). -17.60  
>ENSG00000090905 hs-mir-30e 746 753  
UGUAAACAUCUUGACUGG&CAUUUUGUUUUGGAGGUUCACUUUGAACCUUCUUGUUUACAG  
((((((((((...((...(&.....))....)))))))). -15.39  
>ENSG00000090905 hs-mir-30e 786 793  
UGUAAACAUCUUGACUGG&ACAGAUUUUUUUGUUUUGUUUUUGAGAAAAAUAUGUUUACU  
.((((((((((...((...(&.....))....)))))))). -11.80  
>ENSG00000090905 hs-mir-30e 1552 1559  
UGUAAACAUCUUGACUGG&GUCCUAAGAUGCAAAGAAGUCAGUGGCUUUUUAACUGUUUACAA

(((((((((((((.....&.....)))))))).)).....)))))))). -17.40  
mir-30e ENSMUSG00000030776 2445 nt UTR 4 hits 78 366 405 1165  
-----1-----1-1-----1-----1-----

>ENSMUSG00000030776 hs-mir-30e 78 85  
UGUAAACAUCUUGACUGG&AAUCGGCAAUAUGGGGGCAGCUGUCCAGUGUAGAUGUUUACU  
.(((((((((((((.....&.....)))))))).)).....)))))))). -20.70  
>ENSMUSG00000030776 hs-mir-30e 366 373  
UGUAAACAUCUUGACUGG&CAUGUUGUUUUGAAGGUUCCACGGUGAACCUUCUUGUUUACAG  
(((((((((((((.....&.....)))))))).)).....)))))))). -16.20  
>ENSMUSG00000030776 hs-mir-30e 405 412  
UGUAAACAUCUUGACUGG&UACAGAUUUUUUUGUUUUGUUUUUUGAGAAAAAAAUGUUUACU  
.(((((((((((((.....&.....)))))))).)).....)))))))). -11.80  
>ENSMUSG00000030776 hs-mir-30e 1165 1172  
UGUAAACAUCUUGACUGG&GUCCUAAGAUGCAAAGAGGUCAGUGGCUUUUAACUGUUUACAA  
(((((((((((((.....&.....)))))))).)).....)))))))). -17.40  
mir-30e ENSRNOG00000012884 4340 nt UTR 4 hits 449 736 774 1526  
-----1-----11-----1-----

>ENSRNOG00000012884 hs-mir-30e 449 456  
UGUAAACAUCUUGACUGG&UCUCUCCGUCUGGGGGACAGCUGCUCAGUGUAAAUGUUUACU  
.(((((((((((((.....&.....)))))))).)).....)))))))). -17.40  
>ENSRNOG00000012884 hs-mir-30e 736 743  
UGUAAACAUCUUGACUGG&CAUGUUGUUUUGAAGGUUCCACGGUGAACCUUCUUGUUUACAG  
(((((((((((((.....&.....)))))))).)).....)))))))). -16.20  
>ENSRNOG00000012884 hs-mir-30e 774 781  
UGUAAACAUCUUGACUGG&UUACAGAUUUUUUUGUUUUGUUUUUUGAGAAAAAAAUGUUUACU  
.(((((((((((((.....&.....)))))))).)).....)))))))). -11.80  
>ENSRNOG00000012884 hs-mir-30e 1526 1533  
UGUAAACAUCUUGACUGG&GUCCUAAGACGCAAAGAGGUCAGUGGCUUUUAACUGUUUACAA  
(((((((((((((.....&.....)))))))).)).....)))))))). -17.40

miRNA: mir-30e  
Human predicted target: ENSG00000109689  
Mouse predicted target: ENSMUSG00000039156  
Rat predicted target: ENSRNOG0000002956  
Hs Gene description: STROMAL INTERACTION MOLECULE 2 PRECURSOR.  
[Source:SWISSPROT;Acc:Q9P246] NM\_020860  
mir-30e ENSG00000109689 4385 nt UTR 2 hits 371 881  
-----1-----1-----

>ENSG00000109689 hs-mir-30e 371 378  
UGUAAACAUCUUGACUGG&GACUCGUAAGCCAGCAUGGGCUUGCAAAAAUUUCUUGUUUACC  
.(((((((((((((.....&.....)))))))).)).....)))))))). -17.16  
>ENSG00000109689 hs-mir-30e 881 888

UGUAAACAUCUUGACUGG&AAGCCGAGGUGGGGGGAUAUGGGGAUUCAGGCAAUUGUUUACAC  
(((((((((((((((((.&.....)))))))).))))). -17.40  
mir-30e ENSMUSG00000039156 2000 nt UTR 2 hits 365 868

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

>ENSMUSG00000039156 hs-mir-30e 365 372  
UGUAAACAUCUUGACUGG&GGACUGUAAGCCAGCAUGGGCUUGCAAAAUUUUCUUGUUUACC  
(((((((((((((((((.&.....)))))))).))))). -17.16

>ENSMUSG00000039156 hs-mir-30e 868 875  
UGUAAACAUCUUGACUGG&UAAACUGCGGUCUGGGGCGUGGGGACCCAGGCACUUGUUUACAG  
(((((((((((((((((.&.....)))))))).))))). -20.86  
mir-30e ENSRNOG00000002956 2000 nt UTR 2 hits 362 866

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

>ENSRNOG00000002956 hs-mir-30e 362 369  
UGUAAACAUCUUGACUGG&GGACUGUAAGCCAGCAUGGGCUUGCACAAUUUUCUUGUUUACC  
(((((((((((((((((.&.....)))))))).))))). -17.16

>ENSRNOG00000002956 hs-mir-30e 866 873  
UGUAAACAUCUUGACUGG&UAAACUGAGGUUGGGGUGUGGGGAUUCAGGCACUUGUUUACAG  
(((((((((((((((((.&.....)))))))).))))). -20.06

miRNA: mir-30e

Human predicted target: ENSG00000113615

Mouse predicted target: ENSMUSG00000036391

Rat predicted target: ENSRNOG00000004563

Hs Gene description: PROTEIN TRANSPORT PROTEIN SEC24A (SEC24-RELATED  
PROTEIN A) (FRAGMENT). [Source:SWISSPROT;Acc:095486]

mir-30e ENSG00000113615 4729 nt UTR 2 hits 1157 1337

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

>ENSG00000113615 hs-mir-30e 1157 1164  
UGUAAACAUCUUGACUGG&GAGAAUAUUAUAGUCAAAACUAUUGAGUGAAUUUUGUUUACAA  
(((((((((((((((((.&.....)))))))).))))). -16.35

>ENSG00000113615 hs-mir-30e 1337 1344  
UGUAAACAUCUUGACUGG&UUGGGUUUUUUGUUUUGUUUUAUUGGGUUAGAAAUGUUUACAA  
(((((((((((((((((.&.....)))))))).))))). -16.80  
mir-30e ENSMUSG00000036391 2000 nt UTR 2 hits 1101 1276

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

>ENSMUSG00000036391 hs-mir-30e 1101 1108  
UGUAAACAUCUUGACUGG&AGAGAACUAUACAGUCAAAACUAUCAGAUGGCUUUUGUUUACAA  
(((((((((((((((((.&.....)))))))).))))). -20.20

>ENSMUSG00000036391 hs-mir-30e 1276 1283  
UGUAAACAUCUUGACUGG&UUUUUUUUGGUUUUUGUUUUCUAUAGAAUAGAAAUGUGUUUACAA  
(((((((((((((((((.&.....)))))))).))))). -13.20  
mir-30e ENSRNOG00000004563 4249 nt UTR 4 hits 940 1105 3356 3521

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

>ENSRNOG00000004563 hs-mir-30e 940 947  
UGUAAACAUCUUGACUGG&UCAGUUAGAUUACAGUCAAAACUAUCAGAUGGCUUUUUGUUUACAA  
(((((((((.(((((((((&.....)))))))).))))). -20.20  
>ENSRNOG00000004563 hs-mir-30e 1105 1112  
UGUAAACAUCUUGACUGG&UUUUUUCUGUUUUUUGUUUUCAUAGAUUAGAAACGUGUUUACAG  
(((((((((......&.....)))))))). -13.30  
>ENSRNOG00000004563 hs-mir-30e 3356 3363  
UGUAAACAUCUUGACUGG&UCAGUUAGAUUACAGUCAAAACUAUCAGAUGGCUUUUUGUUUACAA  
(((((((((.(((((((((&.....)))))))).))))). -20.20  
>ENSRNOG00000004563 hs-mir-30e 3521 3528  
UGUAAACAUCUUGACUGG&UUUUUUCUGUUUUUUGUUUUCAUAGAUUAGAAACGUGUUUACAG  
(((((((((......&.....)))))))). -13.30

miRNA: mir-30e  
Human predicted target: ENSG00000114353  
Mouse predicted target: ENSMUSG00000032562  
Rat predicted target: ENSRNOG00000016592  
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-30e ENSG00000114353 2567 nt UTR 2 hits 405 682

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

>ENSG00000114353 hs-mir-30e 405 412  
UGUAAACAUCUUGACUGG&CCCAACACCAGCCCCUGCCCCAGCCCAAGUCCAAAUGUUUACAG  
(((((((((.(((((((((&.....)))))))).))))). -19.60  
>ENSG00000114353 hs-mir-30e 682 689  
UGUAAACAUCUUGACUGG&CUUCCAAGUGACUCCGUGCCUUGAGUGUGUCUGCGUGUUUACAC  
(((((((((.(..((...&.....)))))).)))). -16.60  
mir-30e ENSMUSG00000032562 2992 nt UTR 4 hits 398 683 1880 2165

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

>ENSMUSG00000032562 hs-mir-30e 398 405  
UGUAAACAUCUUGACUGG&GCUUUGUCCAACACCAGCCCUGACCCAAGUCCAAAUGUUUACAG  
(((((((((......(((((&.....)))))).)))). -18.30  
>ENSMUSG00000032562 hs-mir-30e 683 690  
UGUAAACAUCUUGACUGG&CUUCCAGCGAUUCCGUGCCUUGAGUGUGUCUGCGUGUUUACAC  
(((((((((.(((((&.....)))))))).))))). -15.69  
>ENSMUSG00000032562 hs-mir-30e 1880 1887  
UGUAAACAUCUUGACUGG&GCUUUGUCCAACACCAGCCCUGACCCAAGUCCAAAUGUUUACAG  
(((((((((......(((((&.....)))))).)))). -18.30  
>ENSMUSG00000032562 hs-mir-30e 2165 2172  
UGUAAACAUCUUGACUGG&CUUCCAGCGAUUCCGUGCCUUGAGUGUGUCUGCGUGUUUACAC  
(((((((((.(((((&.....)))))))).))))). -15.69

mir-30e ENSRNOG00000016592 2294 nt UTR 2 hits 1202 1486  
-----1-----1-----  
-----

>ENSRNOG00000016592 hs-mir-30e 1202 1209  
UGUAAACAUCUUGACUGG&GCUUUGUCCAACACCAGCCCUGACCCAAGUCCAAAUGUUUACAG  
(((((((((. . . . (((((((&. . . . .)))))))). . . .)))))))). -18.30  
>ENSRNOG00000016592 hs-mir-30e 1486 1493  
UGUAAACAUCUUGACUGG&CUUUCAGUGAUUCCGUGCCUUGAGUGUUUCUGCCUGUUUACAC  
(((((((((. . . . (((((((&. . . . .)))))))). . . .)))))))). -14.65

miRNA: mir-30e  
Human predicted target: ENSG00000116128  
Mouse predicted target: ENSMUSG00000038256  
Mouse predicted target: ENSMUSG00000046063  
Rat predicted target: ENSRNOG00000017516  
Rat predicted target: ENSRNOG00000017541  
Hs Gene description: B-CELL LYMPHOMA 9 PROTEIN (BCL-9) (LEGLSS HOMOLOG).  
[Source:SWISSPROT;Acc:O00512] NM\_004326  
mir-30e ENSG00000116128 2000 nt UTR 2 hits 329 486

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

>ENSG00000116128 hs-mir-30e 329 336  
UGUAAACAUCUUGACUGG&AUUGCCAUCGGUCAUGUGUUGCACCGUUCUCUGUAUGUUUACGU  
(((((((((. . . . (((((((&. . . . .)))))))). . . .)))))))). -17.11  
>ENSG00000116128 hs-mir-30e 486 493  
UGUAAACAUCUUGACUGG&GUCUUUGGGGCAAGAGGAGAACAGGAAUGCUGGGCUGUUUACU  
.(((((((((. . . . (((((((&. . . . .)))))))). . . .)))))))). -18.20  
mir-30e ENSMUSG00000038256 3200 nt UTR 2 hits 322 490

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

>ENSMUSG00000038256 hs-mir-30e 322 329  
UGUAAACAUCUUGACUGG&GAGAAUUGCCAUCGGUCAUGUGUUGCACCGUUCUGUGUUUACGU  
(((((((((. . . . (((((((&. . . . .)))))))). . . .)))))))). -17.11  
>ENSMUSG00000038256 hs-mir-30e 490 497  
UGUAAACAUCUUGACUGG&GUCUUUGGGGCAAGAGGAGAACAGGAAUGCUGGGCUGUUUACU  
.(((((((((. . . . (((((((&. . . . .)))))))). . . .)))))))). -18.20  
mir-30e ENSMUSG00000046063 2001 nt UTR 1 hits 1378

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

>ENSMUSG00000046063 hs-mir-30e 1378 1385  
UGUAAACAUCUUGACUGG&GAGCUGGUACAAGGCAAAGCAGGAGCAUUGUAAAGUGUUUACU  
.(((((((((. . . . (((((((&. . . . .)))))))). . . .)))))))). -19.65  
mir-30e ENSRNOG00000017516 2000 nt UTR 2 hits 327 543

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

>ENSRNOG00000017516 hs-mir-30e 327 334  
UGUAAACAUCUUGACUGG&GAUUCGCCAUCGGUCAUGUCUUGCACCGUUCUCUGUGUUUACGU

((((((((((...(((((((&.....)))))).....)))))))). -17.00  
>ENSRNOG00000017516 hs-mir-30e 543 550  
UGUAAACAUCUUGACUGG&GUCUUUGGGGCAAGAGGAGAACAGGAAUGCUGGGCUGUUUACU  
((((((((((...(((((((&.....)))))).....)))))))). -18.20  
mir-30e ENSRNOG00000017541 2573 nt UTR 1 hits 2172

-----1-----  
>ENSRNOG00000017541 hs-mir-30e 2172 2179  
UGUAAACAUCUUGACUGG&AUUAUUUCAAGUUGUUGGAUGAUGCAAUGAGUUUUGUUUACC  
((((((((((...(((((((&.....)))))).....)))))))). -13.56

miRNA: mir-30e  
Human predicted target: ENSG00000126003  
Mouse predicted target: ENSMUSG00000051413  
Mouse predicted target: ENSMUSG00000045985  
Rat predicted target: ENSRNOG00000010086  
Hs Gene description: ZINC FINGER PROTEIN PLAGL2 (PLEIOMORPHIC ADENOMA-LIKE  
PROTEIN 2). [Source:SWISSPROT;Acc:Q9UPG8] NM\_002657  
mir-30e ENSG00000126003 5948 nt UTR 2 hits 655 742

-----1-1-----  
>ENSG00000126003 hs-mir-30e 655 662  
UGUAAACAUCUUGACUGG&CAAGCUGUUAGCCUUAGAGUGAUUGCAGUGAACACUGUUUACAC  
((((((((((...(((((((&.....)))))).....)))))))). -17.50  
>ENSG00000126003 hs-mir-30e 742 749  
UGUAAACAUCUUGACUGG&CUGAACCAUUUGGUACCUGGUGUUAACUGGAGUCCUGUUUACAA  
((((((((((...(((((((&.....)))))).....)))))))). -17.10  
mir-30e ENSMUSG00000051413 5720 nt UTR 2 hits 637 724

-----1-1-----  
>ENSMUSG00000051413 hs-mir-30e 637 644  
UGUAAACAUCUUGACUGG&GCCACACUGUUAGCCUUAGUGAUUGCAGUGAACACUGUUUACAC  
((((((((((...(((((((&.....)))))).....)))))))). -17.50  
>ENSMUSG00000051413 hs-mir-30e 724 731  
UGUAAACAUCUUGACUGG&CUGAACACUCGGUACCUGGUGUUAACUGGAGCCCUGUUUACAA  
((((((((((...(((((((&.....)))))).....)))))))). -17.10  
mir-30e ENSMUSG00000045985 5720 nt UTR 2 hits 637 724

-----1-1-----  
>ENSMUSG00000045985 hs-mir-30e 637 644  
UGUAAACAUCUUGACUGG&GCCACACUGUUAGCCUUAGUGAUUGCAGUGAACACUGUUUACAC



((((((((((...((((&.....)))))).))...)))))))). -17.50  
>ENSMUSG00000045985 hs-mir-30e 724 731

UGUAAACAUCUUGACUGG&CUGAACACUCGGUACCUGGUGUUAACUGGAGCCUGUUUACAA  
((((((((((...((((&.....)))))).))...)))))))). -17.10  
mir-30e ENSRNOG00000010086 2000 nt UTR 2 hits 642 729

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

>ENSRNOG00000010086 hs-mir-30e 642 649  
UGUAAACAUCUUGACUGG&CACACUGUUAGCCUUAGAGUGAUUGCAGUGAACACUGUUUACAC

((((((((((...((((&.....)))))).))...)))))))). -17.50  
>ENSRNOG00000010086 hs-mir-30e 729 736

UGUAAACAUCUUGACUGG&CUGAACACUCGGUACCUGGUGUUAACUGGAGCCUGUUUACAA  
((((((((((...((((&.....)))))).))...)))))))). -17.10

miRNA: mir-30e

Human predicted target: ENSG00000132130  
Mouse predicted target: ENSMUSG00000018698  
Rat predicted target: ENSRNOG00000002812  
Hs Gene description: LIM/HOMEBOX PROTEIN LHX1 (HOMEBOX PROTEIN LIM-1).  
[Source:SWISSPROT;Acc:P48742] NM\_005568  
mir-30e ENSG00000132130 2000 nt UTR 2 hits 845 1028

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

>ENSG00000132130 hs-mir-30e 845 852  
UGUAAACAUCUUGACUGG&AAAAAAAAAAGACUAUUGAACUAAAAACAGUCAACUGUUUACGU

((((((((((...((((&.....)))))).))...)))))))). -20.60  
>ENSG00000132130 hs-mir-30e 1028 1035

UGUAAACAUCUUGACUGG&CUUUCGGCUCACUGUGCUAGUAUGUAAAAAGGUGUUGUUUACAC  
((((((((((...((((&.....)))))).))...)))))))). -19.10  
mir-30e ENSMUSG00000018698 2170 nt UTR 2 hits 938 1119

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

>ENSMUSG00000018698 hs-mir-30e 938 945  
UGUAAACAUCUUGACUGG&AAAAAGAAAAGACUAUCGAACUAAAAACAGUCAACUGUUUACGU

((((((((((...((((&.....)))))).))...)))))))). -20.60  
>ENSMUSG00000018698 hs-mir-30e 1119 1126

UGUAAACAUCUUGACUGG&CUUGCGGCUCACUGUGCUAGUAUGUAAAAAGGUGUUGUUUACAC  
((((((((((...((((&.....)))))).))...)))))))). -19.10  
mir-30e ENSRNOG00000002812 2086 nt UTR 2 hits 943 1126

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

>ENSRNOG00000002812 hs-mir-30e 943 950  
UGUAAACAUCUUGACUGG&AAAAAAAAAAGACUAUUGAACUAAAAACAGUCAACUGUUUACGU

((((((((((...((((&.....)))))).))...)))))))). -20.60  
>ENSRNOG00000002812 hs-mir-30e 1126 1133

UGUAAACAUCUUGACUGG&CUUGCGGCUCACUGUGCUAGUAUGUAAAAAGGUGUUGUUUACAC  
((((((((((...((((&.....)))))).))...)))))))). -19.10

miRNA: mir-30e

Human predicted target: ENSG00000155846

Mouse predicted target: ENSMUSG00000033871

Rat predicted target: ENSRNOG00000017503

Hs Gene description: PGC-1-RELATED ESTROGEN RECEPTOR ALPHA COACTIVATOR.

[Source:RefSeq;Acc:NM\_133263]

mir-30e ENSG00000155846 2146 nt UTR 2 hits 57 165

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

>ENSG00000155846 hs-mir-30e 57 64  
UGUAAACAUCUUGACUGG&AAUACCUCAAUACCUCAGACAAGGCCCUUCCAAUAUGUUUACGU  
(((((((((((((((((((((&.....)))))).))))).))))). -19.70

>ENSG00000155846 hs-mir-30e 165 172  
UGUAAACAUCUUGACUGG&UGAAACUGCUGUCCUUUAAAAAAAAAAAAUCAUGUUUACAU  
(((((((((((((((((((((&.....)))))).))))).))))). -13.50

mir-30e ENSMUSG00000033871 2546 nt UTR 2 hits 57 212

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

>ENSMUSG00000033871 hs-mir-30e 57 64  
UGUAAACAUCUUGACUGG&AAUACCUCAAUACCUCAGACAAGGCCCUUCCAAUAUGUUUACGU  
(((((((((((((((((((((&.....)))))).))))).))))). -19.70

>ENSMUSG00000033871 hs-mir-30e 212 219  
UGUAAACAUCUUGACUGG&UAAAAAAAAAAAAACGAAAAACAAAACAAAUCAUGUUUACAU  
(((((((((((((((((((((&.....)))))).))))).))))). -13.50

mir-30e ENSRNOG00000017503 2174 nt UTR 2 hits 60 207

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

>ENSRNOG00000017503 hs-mir-30e 60 67  
UGUAAACAUCUUGACUGG&AAUACCUCAAUACCUCAGACAAGGCCCUUCCAAUAUGUUUACGU  
(((((((((((((((((((((&.....)))))).))))).))))). -19.70

>ENSRNOG00000017503 hs-mir-30e 207 214  
UGUAAACAUCUUGACUGG&UCCUUUAAAAAAAAAAAAACAAAACAAAACAAAUCAUGUUUACAU  
(((((((((((((((((((((&.....)))))).))))).))))). -13.50

miRNA: mir-30e

Human predicted target: ENSG00000172819

Mouse predicted target: ENSMUSG00000001288

Rat predicted target: ENSRNOG00000012499

Hs Gene description: RETINOIC ACID RECEPTOR GAMMA-1 (RAR-GAMMA-1).

[Source:SWISSPROT;Acc:P13631]

mir-30e ENSG00000172819 3107 nt UTR 2 hits 855 1028

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

>ENSG00000172819 hs-mir-30e 855 862  
UGUAAACAUCUUGACUGG&GACCCAGAGGAAGCCUCUAUUUUAUUUAGCUUUUGUUUACAC

((((((((((((((((...((((&...))))))))).....)))))))). -16.75  
>ENSG00000172819 hs-mir-30e 1028 1035  
UGUAAACAUCUUGACUGG&UCUCUUGGGGGGUCAGGGUGCUGUCCCCUCCCCUCUGUUUACAU  
(((((((((((((...((((&...))))))))).....)))))))). -21.07  
mir-30e ENSMUSG00000001288 2000 nt UTR 2 hits 919 1093

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

>ENSMUSG00000001288 hs-mir-30e 919 926  
UGUAAACAUCUUGACUGG&GACCCAGAGGAAGCCUCUAUUUAUUUAUAGCUUUUGUUUACAC  
((((((((((((((((...((((&...))))))))).....)))))))). -16.75  
>ENSMUSG00000001288 hs-mir-30e 1093 1100  
UGUAAACAUCUUGACUGG&UUCUCUGGGGGGUAAGGGUGCUGUCCCCUCCCCUCUGUUUACAU  
((((((((((((((((...((((&...))))))))).....)))))))). -18.87  
mir-30e ENSRNOG00000012499 2000 nt UTR 3 hits 836 1010 1401

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

>ENSRNOG00000012499 hs-mir-30e 836 843  
UGUAAACAUCUUGACUGG&ACCCAGAGGAAGGCCUCUAUUUAUUUAUAGCUUUUGUUUACAC  
((((((((((((((((...((((&...))))))))).....)))))))). -16.71  
>ENSRNOG00000012499 hs-mir-30e 1010 1017  
UGUAAACAUCUUGACUGG&UUCUCUGGGGGGUAAGGGUGCUGUCCCCUCCCCUCUGUUUACAU  
((((((((((((((((...((((&...))))))))).....)))))))). -18.87  
>ENSRNOG00000012499 hs-mir-30e 1401 1408  
UGUAAACAUCUUGACUGG&GAUCCUGUGGGUUAUGCUACUAUGCCUAGGCAUGUGUUUACC  
((((((((((((((((...((((&...))))))))).....)))))))). -15.60

miRNA: mir-30e  
Human predicted target: ENSG00000176165  
Mouse predicted target: ENSMUSG00000020950  
Rat predicted target: ENSRNOG00000004156  
Hs Gene description: FORKHEAD BOX PROTEIN G1B (FORKHEAD-RELATED PROTEIN FKHL1) (TRANSCRIPTION FACTOR BF-1) (BRAIN FACTOR 1) (BF1) (HFK1).  
[Source:SWISSPROT;Acc:P55315] NM\_005249  
mir-30e ENSG00000176165 2922 nt UTR 3 hits 505 874 1476

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

>ENSG00000176165 hs-mir-30e 505 512  
UGUAAACAUCUUGACUGG&UGUCCUUUUCUUUAAAGAACUGUUUUUUUUUCUUUUUGUUUACU  
((((((((((((((((...((((&...))))))))).....)))))))). -11.10  
>ENSG00000176165 hs-mir-30e 874 881  
UGUAAACAUCUUGACUGG&UGUGGUCAUAUGCCCGUGUUUGUCACUACAAAAUGUUUACU  
((((((((((((((((...((((&...))))))))).....)))))))). -13.75  
>ENSG00000176165 hs-mir-30e 1476 1483  
UGUAAACAUCUUGACUGG&UUUAUACUUUCUAAGUCAGCAUUUAUUUUUGUGGCUGUUUACC  
((((((((((((((((...((((&...))))))))).....)))))))). -16.81  
mir-30e ENSMUSG00000020950 2925 nt UTR 3 hits 135 501 882

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

>ENSMUSG00000020950 hs-mir-30e 135 142
UGUAAACAUCUUGACUGG&UCCCCAUUUCUGUACGUUUGUUCAGUCUUUAGGGUUGUUUACU
(((((((((((((.&.....))))))..))))).))))) -23.30
>ENSMUSG00000020950 hs-mir-30e 501 508
UGUAAACAUCUUGACUGG&UGUCCUUUUUCUUUAAAAGAACUGUUUCUUUCCUUUUGUUUACU
(((((((((.&.....))))..)))) -10.60
>ENSMUSG00000020950 hs-mir-30e 882 889
UGUAAACAUCUUGACUGG&UGUGGUCAUAUGCCCGUGUUUGUCACUUACAAAUGUUUACU
(((((((((.&.....))))..)))) -13.75
mir-30e ENSRNOG00000004156 2930 nt UTR 3 hits 136 501 883

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

>ENSRNOG00000004156 hs-mir-30e 136 143
UGUAAACAUCUUGACUGG&CCCCAUUUCUGUACGUUUGUUCAGUCUUUAGGGUUGUUUACU
(((((((((((((.&.....))))))..))))).))))) -23.30
>ENSRNOG00000004156 hs-mir-30e 501 508
UGUAAACAUCUUGACUGG&UUUGUCCUUUUUCUUUAAAAGAACUGUUUUUUUCUUUUGUUUACU
(((((((((.&.....))))..)))) -11.10
>ENSRNOG00000004156 hs-mir-30e 883 890
UGUAAACAUCUUGACUGG&UGUGGUCAUAUGCCCGUGUUUGUCACUUACAAAUGUUUACU
(((((((((.&.....))))..)))) -13.75

miRNA: mir-30e

Human predicted target: ENSG00000181915
Mouse predicted target: ENSMUSG00000043176
Rat predicted target: ENSRNOG00000000639
Hs Gene description: NM\_032804

mir-30e ENSG00000181915 4611 nt UTR 2 hits 1330 3218

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

>ENSG00000181915 hs-mir-30e 1330 1337
UGUAAACAUCUUGACUGG&UUUUUGUGCUUUUAAUAGUCCGAGCAGUCUUACCUUGUUUACAC
(((((((((.&.....))))..)))) -19.60
>ENSG00000181915 hs-mir-30e 3218 3225
UGUAAACAUCUUGACUGG&UAUAGAUAUUGAAUCUUCACAAACCCAAUCUGGGGAUGUUUACAU
(((((((((((((.&.....))))))..))))).))))) -22.20
mir-30e ENSMUSG00000043176 2000 nt UTR 2 hits 1477 1526

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

>ENSMUSG00000043176 hs-mir-30e 1477 1484
UGUAAACAUCUUGACUGG&GUAUUUUGGUGGCGGAGGCUCAGCCCCUUUACCAUGUUUACAG
(((((((((((((.&.....))))..))))).))))) -17.16
>ENSMUSG00000043176 hs-mir-30e 1526 1533
UGUAAACAUCUUGACUGG&UCUAUCGAUUCUGACCAUGGACCACCAGUUUCCCUGUUUACU

.(((((((.....(((((&.....)))))).....))))). -19.10  
mir-30e ENSRNOG0000000639 2000 nt UTR 2 hits 1498 1550  
-----1-1-----  
-----

>ENSRNOG0000000639 hs-mir-30e 1498 1505  
UGUAAACAUCUUGACUGG&GCAUUAUGGCCAGCAGAGGCUCGGCACGUUUGCCAUGUUUACAG  
(((((((((((.....(((((&.....)))))).....))))). -20.86  
>ENSRNOG0000000639 hs-mir-30e 1550 1557  
UGUAAACAUCUUGACUGG&ACACUAGAUUCUAGCCAUGGACCACCAGUUUCCCUGUUUACU  
.(((((((.....(((((&.....)))))).....))))). -19.10

miRNA: mir-30e  
Human predicted target: ENSG00000185112  
Mouse predicted target: ENSMUSG00000046546  
Rat predicted target: ENSRNOG00000001728  
Hs Gene description: NM\_153690

mir-30e ENSG00000185112 2445 nt UTR 2 hits 519 609  
-----1-1-----  
-----

>ENSG00000185112 hs-mir-30e 519 526  
UGUAAACAUCUUGACUGG&UAGCCCUUGGUUCUUUUUGGUGCAAGAAUUCUGGCUGUUUACC  
.(((((((.....(((((&.....)))))).....))))). -14.51  
>ENSG00000185112 hs-mir-30e 609 616  
UGUAAACAUCUUGACUGG&UGGGGGGUGGGGGGAGAUGAAAGAGAGUCGCGUUUUGUUUACAG  
(((((((((((.....(((((&.....)))))).....))))). -17.99  
mir-30e ENSMUSG00000046546 2846 nt UTR 4 hits 487 577 1366 1391  
-----1-1-----11-----  
-----

>ENSMUSG00000046546 hs-mir-30e 487 494  
UGUAAACAUCUUGACUGG&CUGCCCCAGUUCUUUCGGAUAGGGGAGCUUGGGCUGUUUACC  
.(((((((.....(((((&.....)))))).....))))). -19.05  
>ENSMUSG00000046546 hs-mir-30e 577 584  
UGUAAACAUCUUGACUGG&CUUGGGGGGGGGGAGUGUAUGAAAGUCGUGUUUUGUUUACAG  
(((((((((((.....(((((&.....)))))).....))))). -17.70  
>ENSMUSG00000046546 hs-mir-30e 1366 1373  
UGUAAACAUCUUGACUGG&UUUGGAGAGGUCAGUGUAAAUAACUGCCCACGCUGUUUACAC  
(((((((((((.....(((((&.....)))))).....))))). -14.25  
>ENSMUSG00000046546 hs-mir-30e 1391 1398  
UGUAAACAUCUUGACUGG&CUGCCCACGCUGUUUACACGAGUCACGUGGAUGGCUGUUUACU  
.(((((((.....(((((&.....)))))).....))))). -19.50  
mir-30e ENSRNOG00000001728 2000 nt UTR 3 hits 511 604 1397  
-----1-1-----1-----  
-----

>ENSRNOG00000001728 hs-mir-30e 511 518  
UGUAAACAUCUUGACUGG&CUGCCCCAGUUCUUUUGGAUAUGAGAGCUUGGGCUGUUUACC  
.(((((((.....(((((&.....)))))).....))))). -19.05  
>ENSRNOG00000001728 hs-mir-30e 604 611

UGUAAACAUCUUGACUGG&UGGGGGGCGGAGGGCGGGGUAUGAAAGUUGUGUUUUGUUUACAG  
(((((((((((((.&.....)))))).....))))). -16.73  
>ENSRNOG0000001728 hs-mir-30e 1397 1404  
UGUAAACAUCUUGACUGG&AAUUCAACUGCCCACACUGUUUAGACGUGUAUGGCUGUUUACU  
(((((((((((((.&.....)))))).....))))). -15.20

miRNA: mir-31

Human predicted target: ENSG00000086666  
Mouse predicted target: ENSMUSG00000030629  
Rat predicted target: ENSRNOG00000013506  
Hs Gene description: PROTEIN ASSOCIATED WITH PRK1.  
[Source:RefSeq;Acc:NM\_019006]

mir-31 ENSG00000086666 2753 nt UTR 2 hits 95 321

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

>ENSG00000086666 hs-mir-31 95 102  
GGCAAGAUGCUGGCAUAGCUG&UUUUUUUCCUAGUCAUUGGGAAUGUAGAGCAGUGUAUCUUGCA  
.(((((((((((((.&.....)))))).....))))). -20.70  
>ENSG00000086666 hs-mir-31 321 328

GGCAAGAUGCUGGCAUAGCUG&CUGUGAUUUUCCAGUAUUAACAUGCAUGCAUUAUCUUGCA  
.(((((((((((((.&.....)))))).....))))). -22.10

mir-31 ENSMUSG00000030629 2766 nt UTR 2 hits 94 321

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

>ENSMUSG00000030629 hs-mir-31 94 101  
GGCAAGAUGCUGGCAUAGCUG&UUUUUUUCCUAGUCCUUGGGAAUGUAGAGCACCGUAUCUUGCA  
.(((((((((((((.&.....)))))).....))))). -21.90  
>ENSMUSG00000030629 hs-mir-31 321 328

GGCAAGAUGCUGGCAUAGCUG&CUGUGAUUUUCCAGUAUUAACAUGCAUGCGUUGAUCUUGCA  
.(((((((((((((.&.....)))))).....))))). -19.90

mir-31 ENSRNOG00000013506 2000 nt UTR 2 hits 97 326

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

>ENSRNOG00000013506 hs-mir-31 97 104  
GGCAAGAUGCUGGCAUAGCUG&UUUUUUUCCUAGUCCUUGGGAAUGUAGAGCACCGUAUCUUGCA  
.(((((((((((((.&.....)))))).....))))). -21.90  
>ENSRNOG00000013506 hs-mir-31 326 333

GGCAAGAUGCUGGCAUAGCUG&GUGAUUUUUUCCAGUAUUAACAUGCAUGCGUUGAUCUUGCA  
.(((((((((((((.&.....)))))).....))))). -19.90

miRNA: mir-31

Human predicted target: ENSG00000151240  
Mouse predicted target: ENSMUSG00000048264  
Rat predicted target: ENSRNOG00000015288

mir-31 ENSG00000151240 2000 nt UTR 2 hits 656 830

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

>ENSG00000151240 hs-mir-31 656 663  
GGCAAGAUGCUGGCAUAGCUG&AGAAGAAUUAUAAAUAAGGUGUAUUUCGGCAAUAUCUUGCA  
.(((((((((((((((((.&.....)))))).)))).....))))). -18.20  
>ENSG00000151240 hs-mir-31 830 837  
GGCAAGAUGCUGGCAUAGCUG&UGUAAUGUUUGCUAUUAUAAAAAAGUGUUGUAUUUUCUUGCG  
.((((((((((...(((.&.....)))))).)))).....))))). -19.40  
mir-31 ENSMUSG00000048264 2831 nt UTR 2 hits 674 851

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

>ENSMUSG00000048264 hs-mir-31 674 681  
GGCAAGAUGCUGGCAUAGCUG&GGAGAAGUGAUUAUAAAUAAGGUAUUUCGGCAACUAUCUUGCA  
.(((((((((((((((((.&.....)))))).)))).....))))). -19.90  
>ENSMUSG00000048264 hs-mir-31 851 858  
GGCAAGAUGCUGGCAUAGCUG&UGUAAUGUUUGCUAUUAUAAAAAAGUGUUGUAUUUUCUUGCG  
.((((((((((...(((.&.....)))))).)))).....))))). -19.40  
mir-31 ENSRNOG00000015288 2829 nt UTR 2 hits 672 848

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

>ENSRNOG00000015288 hs-mir-31 672 679  
GGCAAGAUGCUGGCAUAGCUG&CGAGGAUCGAUUAUAAAUAAGGUAUUUCGGCAACUAUCUUGCA  
.(((((((((((((((((.&.....)))))).)))).....))))). -19.90  
>ENSRNOG00000015288 hs-mir-31 848 855  
GGCAAGAUGCUGGCAUAGCUG&UGUAAUGUUUGCUAUUAUAAAAAAGUGUUGUAUUUUCUUGCG  
.((((((((((...(((.&.....)))))).)))).....))))). -19.40

miRNA: mir-31

Human predicted target: ENSG00000167771  
Mouse predicted target: ENSMUSG00000024968  
Rat predicted target: ENSRNOG00000021183  
Hs Gene description: NM\_173587

mir-31 ENSG00000167771 2635 nt UTR 1 hits 785

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

>ENSG00000167771 hs-mir-31 785 792  
GGCAAGAUGCUGGCAUAGCUG&CAAGUCUCUCCUGCAAGGCAGGUGGGCUAGGCCACAUCUUGCCC  
(((((((((((((((((.&.....)))))).)))).....))))). -33.80  
mir-31 ENSMUSG00000024968 2567 nt UTR 1 hits 676

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

>ENSMUSG00000024968 hs-mir-31 676 683  
GGCAAGAUGCUGGCAUAGCUG&UAACCAAUUCUCUUCUGCCAGGCAGGCAAGGCCACAUCUUGCCC  
(((((((((((((((((.&.....)))))).)))).....))))). -30.50  
mir-31 ENSRNOG00000021183 2565 nt UTR 1 hits 693

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

>ENSRNOG00000021183 hs-mir-31 693 700  
GGCAAGAUGCUGGCAUAGCUG&UUCUGCCAGGCAGGCAGGCGGGCGGGCUGAGCCACAUCUUGCCC  
(((((((((((((.((((.((((.((&.....)))))))).)))))))). -33.50

miRNA: mir-31

Human predicted target: ENSG00000173209  
Mouse predicted target: ENSMUSG00000020288  
Rat predicted target: ENSRNOG00000005318  
Hs Gene description: NM\_152392

mir-31 ENSG00000173209 2137 nt UTR 2 hits 1193 1748  
-----1-----1-----  
-----

>ENSG00000173209 hs-mir-31 1193 1200  
GGCAAGAUGCUGGCAUAGCUG&AGUUCUGCCUGACCAAGAAUUAAGCCUAUAAAUCUAUCUUGCCA  
(((((((((((((.((((.((((.((&.....)))))))).)))))))). -23.93

>ENSG00000173209 hs-mir-31 1748 1755  
GGCAAGAUGCUGGCAUAGCUG&UAUUCUUUAACAGAACUAUUUUCAGGGGAAGGAAGAUUCUUGCUC  
(((((((((((((.((((.((((.((&.....)))))))).)))))))). -16.20  
mir-31 ENSMUSG00000020288 3852 nt UTR 2 hits 1101 1642  
-----1-----1-----  
-----

>ENSMUSG00000020288 hs-mir-31 1101 1108  
GGCAAGAUGCUGGCAUAGCUG&AUUCUGCCUGACCAAGAAUUGAAGCCUAUAAAUCUAUCUUGCCA  
(((((((((((((.((((.((((.((&.....)))))))).)))))))). -20.80

>ENSMUSG00000020288 hs-mir-31 1642 1649  
GGCAAGAUGCUGGCAUAGCUG&UACUCUUUGACAGAGCUGUUUUCAGGAGACGGAAGAUUCUUGCUC  
(((((((((((((.((((.((((.((&.....)))))))).)))))))). -20.20  
mir-31 ENSRNOG00000005318 3732 nt UTR 4 hits 1010 1543 2926 3459  
-----1-----1-----  
-----1-----1-----  
-----

>ENSRNOG00000005318 hs-mir-31 1010 1017  
GGCAAGAUGCUGGCAUAGCUG&AUUCUGCCUGACCAAGAAUUGAAGCCUAUAAAUCUAUCUUGCCA  
(((((((((((((.((((.((((.((&.....)))))))).)))))))). -20.80

>ENSRNOG00000005318 hs-mir-31 1543 1550  
GGCAAGAUGCUGGCAUAGCUG&UACUCUUUGACAGAGCCAUUUUUCAGGGGAUGGCAGAUUCUUGCUC  
(((((((((((((.((((.((((.((&.....)))))))).)))))))). -24.20

>ENSRNOG00000005318 hs-mir-31 2926 2933  
GGCAAGAUGCUGGCAUAGCUG&AUUCUGCCUGACCAAGAAUUGAAGCCUAUAAAUCUAUCUUGCCA  
(((((((((((((.((((.((((.((&.....)))))))).)))))))). -20.80

>ENSRNOG00000005318 hs-mir-31 3459 3466  
GGCAAGAUGCUGGCAUAGCUG&UACUCUUUGACAGAGCCAUUUUUCAGGGGAUGGCAGAUUCUUGCUC  
(((((((((((((.((((.((((.((&.....)))))))).)))))))). -24.20

miRNA: mir-32



Human predicted target: ENSG00000049618  
Mouse predicted target: ENSMUSG00000023804  
Rat predicted target: ENSRNOG00000017030  
Hs Gene description: BRG1-BINDING PROTEIN ELD/OSA1; ELD (EYELID)/OSA  
PROTEIN. [Source:RefSeq;Acc:NM\_020732]

mir-32 ENSG00000049618 2470 nt UTR 2 hits 489 1811  
-----1-----1-

>ENSG00000049618 hs-mir-32 489 496  
UAUUGCACAUUACUAAGUUGC&AAUGAAAAAACUGCAUCCCAUCACCCAAAGUUCUGUGCAAUAG  
((((((((((..(((.....&.....)))))))).))))). -18.70

>ENSG00000049618 hs-mir-32 1811 1818  
UAUUGCACAUUACUAAGUUGC&AUUUAGUUUACUCCACCGUGUAUAAUAAUUUUAUACUGUGCAAUGU  
((((((((((..(((.....&.....)))))))).))))). -15.75

mir-32 ENSMUSG00000023804 2000 nt UTR 2 hits 521 1872  
-----1-----1-

1-----  
>ENSMUSG00000023804 hs-mir-32 521 528  
UAUUGCACAUUACUAAGUUGC&UAAAAGCUAAACUGCACCCCGUCACCCAAAGCUCUGUGCAAUAG  
((((((((((..(((.....&.....)))))))).))))). -15.70

>ENSMUSG00000023804 hs-mir-32 1872 1879  
UAUUGCACAUUACUAAGUUGC&CGUUAGUUUGCUCCACGCGUGUAUAAUAAUUUUAUUGUGCAAUGU  
((((((((((..(((.....&.....)))))))).))))). -18.12

mir-32 ENSRNOG00000017030 2000 nt UTR 2 hits 535 1854  
-----1-----1-

1-----  
>ENSRNOG00000017030 hs-mir-32 535 542  
UAUUGCACAUUACUAAGUUGC&AAAAGCGAAAGUGCAUCCCAUUGCCCAAAGCUCUGUGCAAUAG  
((((((((((..(((.....&.....)))))))).))))). -16.40

>ENSRNOG00000017030 hs-mir-32 1854 1861  
UAUUGCACAUUACUAAGUUGC&CUGCAUUGUUUACUCCGCCGUGUAUAAUAAUUUUAUUGUGCAAUGU  
((((((((((..(((.....&.....)))))))).))))). -17.20

miRNA: mir-32

Human predicted target: ENSG00000110422  
Mouse predicted target: ENSMUSG00000027177  
Rat predicted target: ENSRNOG00000011358  
Hs Gene description: HOMEODOMAIN INTERACTING PROTEIN KINASE 3;  
HOMEODOMAIN-INTERACTING PROTEIN KINASE 3. [Source:RefSeq;Acc:NM\_005734]  
NM\_005734

mir-32 ENSG00000110422 2737 nt UTR 2 hits 114 1102  
-----1-----1-

>ENSG00000110422 hs-mir-32 114 121  
UAUUGCACAUUACUAAGUUGC&CACAAGAAAUAUUUUUGAAUCAUGUAGACUUGGGUGCAAUU  
((((((((((..(((.....&.....)))))))).))))). -18.10

>ENSG00000110422 hs-mir-32 1102 1109

UAUUGCACAUUACUAAGUUGC&UACUAUUGAAGCUUGAAAAGAUGUGAGUUCUUUGUGUGCAAUU  
.((((((((((.....((..(&.....))..)).....)))))))). -17.30  
mir-32 ENSMUSG00000027177 2090 nt UTR 2 hits 125 1122

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

>ENSMUSG00000027177 hs-mir-32 125 132  
UAUUGCACAUUACUAAGUUGC&CACAAGAAAUAUUUUUGAAUCAUGUAGACUUGGGUGCAAUU  
.((((((((((.....((((((..&.....)))))).....)))))))). -18.10

>ENSMUSG00000027177 hs-mir-32 1122 1129  
UAUUGCACAUUACUAAGUUGC&UACUGUUGAAGCUUGAAAAGAUGUGAGCUCUUUGUGUGCAAUU  
.((((((((((.....((..(&.....))..)).....)))))))). -17.20  
mir-32 ENSRNOG00000011358 2072 nt UTR 2 hits 128 1122

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

>ENSRNOG00000011358 hs-mir-32 128 135  
UAUUGCACAUUACUAAGUUGC&CACAAGAAAUAUUUUUGAAUCAUGUAGACUUGGGUGCAAUU  
.((((((((((.....((((((..&.....)))))).....)))))))). -18.10

>ENSRNOG00000011358 hs-mir-32 1122 1129  
UAUUGCACAUUACUAAGUUGC&UACUAUUGAAGCUUGAAAAGAUGUGAGUUCUUUGUGUGCAAUU  
.((((((((((.....((..(&.....))..)).....)))))))). -17.30

miRNA: mir-32  
Human predicted target: ENSG00000128641  
Mouse predicted target: ENSMUSG00000018417  
Rat predicted target: ENSRNOG00000015227  
Hs Gene description: MYOSIN IB (MYOSIN I ALPHA) (MMI-ALPHA) (MMIA) (MYH-1C) (FRAGMENT). [Source:SWISSPROT;Acc:O43795]  
mir-32 ENSG00000128641 3426 nt UTR 2 hits 45 932

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

>ENSG00000128641 hs-mir-32 45 52  
UAUUGCACAUUACUAAGUUGC&CCUCUCUACUUUCAUGGACUUGUUCUUUGUAAUAGUGCAAUU  
.((((((((((.....((((((..&.....)))))).....)))))))). -19.80

>ENSG00000128641 hs-mir-32 932 939  
UAUUGCACAUUACUAAGUUGC&AGCCAUCAGAUAGCAGUAAAACAUUCUGUAUGAUGUGCAAUAA  
((((((((((.....((((((..&.....)))))).....)))))))). -19.70

mir-32 ENSMUSG00000018417 2758 nt UTR 3 hits 45 477 1458

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

>ENSMUSG00000018417 hs-mir-32 45 52  
UAUUGCACAUUACUAAGUUGC&CCUCUCUGCUCUCACGGACUUGUUCUUCGUAACAGUGCAAUU  
.((((((((((.....((((((..&.....)))))).....)))))))). -16.11

>ENSMUSG00000018417 hs-mir-32 477 484  
UAUUGCACAUUACUAAGUUGC&GAGAGCCGUUCAGACUGGCAGAUUCUUCUCUUUGAUGUGCAAUAA  
((((((((((.....((((((..&.....)))))).....)))))))). -19.60

>ENSMUSG00000018417 hs-mir-32 1458 1465  
UAUUGCACAUUACUAAGUUGC&GAGAGCCGUUCAGACUGGCAGAUUCUUCUCUUUGAUGUGCAAUAA

((((((((((((((..(((((((&.....))))))..)))).....)))))))). -19.60  
mir-32 ENSRNOG00000015227 2061 nt UTR 2 hits 48 1142  
-1-----1-----

>ENSRNOG00000015227 hs-mir-32 48 55  
UAUUGCACAUUACUAAGUUGC&CCUCUCUGUUCACGGACUUGUUCCUCGUAACAGUGCAAUU  
.((((((((((((((..&.....))))))..)))).....)))))))). -16.11  
>ENSRNOG00000015227 hs-mir-32 1142 1149  
UAUUGCACAUUACUAAGUUGC&GAGAGCCAUCAGACUGGCAGAUCUUCUCUUUGAUGUGCAAUAA  
((((((((((((((..(((((((&.....))))))..)))).....)))))))). -19.60

miRNA: mir-32  
Human predicted target: ENSG00000155744  
Mouse predicted target: ENSMUSG00000038174  
Rat predicted target: ENSRNOG00000011327  
Rat predicted target: ENSRNOG00000012078  
Hs Gene description: NM\_173822

mir-32 ENSG00000155744 4800 nt UTR 2 hits 275 506  
-----1-----1-----

>ENSG00000155744 hs-mir-32 275 282  
UAUUGCACAUUACUAAGUUGC&UGCCUUUCCAUGCCUCCUUCUCCUUGGGUGAUGUGCAAUC  
.((((((((((((((((((..&.....))))))..)))).....)))))))). -22.50

>ENSG00000155744 hs-mir-32 506 513  
UAUUGCACAUUACUAAGUUGC&GAGAUUCUGCUAUGACUUUGGACUUCUCUGAGUCUGUGCAAUC  
.((((((((((..((((((((((..&.....))))))..)))).....)))))))). -16.40  
mir-32 ENSMUSG00000038174 2575 nt UTR 2 hits 256 485  
-----1-----1-----

>ENSMUSG00000038174 hs-mir-32 256 263  
UAUUGCACAUUACUAAGUUGC&UGCCUUUCCAUGCCUCCUUCUCCUUGGGUGAUGUGCAAUC  
.((((((((((((((((((((((..&.....))))))..)))).....)))))))). -22.50

>ENSMUSG00000038174 hs-mir-32 485 492  
UAUUGCACAUUACUAAGUUGC&GAGAUUCUGCUAUGACUUUGGCUUCUCUGAGCCUGUGCAAUU  
.((((((((((..((((((((((..&.....))))))..)))).....)))))))). -15.00  
mir-32 ENSRNOG00000011327 2572 nt UTR 2 hits 257 489  
-----1-----1-----

>ENSRNOG00000011327 hs-mir-32 257 264  
UAUUGCACAUUACUAAGUUGC&UUUGCCUUUCCUGCCUCCUUCUUCUUGGGUGAUGUGCAAUC  
.((((((((((((((((((((((..&.....))))))..)))).....)))))))). -22.30

>ENSRNOG00000011327 hs-mir-32 489 496  
UAUUGCACAUUACUAAGUUGC&AGAUUCUGCUAUGACUUUGGCUUCUCUGAGUCUGUGCAAUU  
.((((((((((..((((((((((..&.....))))))..)))).....)))))))). -15.90  
mir-32 ENSRNOG00000012078 2572 nt UTR 2 hits 257 489

-----1-----1-----  
-----  
>ENSRNOG00000012078 hs-mir-32 257 264  
UAUUGCACAUUACUAAGUUGC&UUUGCCUUUCCUGCCUCCUUUCUCUUGGGUGAUGUGCAAUC  
.((((((((((((((((.....&.....)))))))))..)))))))). -22.30  
>ENSRNOG00000012078 hs-mir-32 489 496  
UAUUGCACAUUACUAAGUUGC&AGAUUCUGCUAUGACUUUGGGCUUUCUCUGAGUCUGUGCAAUU  
.((((((((((((((((.....&.....)))))))))..)))))))). -15.90

miRNA: mir-32

Human predicted target: ENSG00000157152

Mouse predicted target: ENSMUSG00000009394

Rat predicted target: ENSRNOG00000008157

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

mir-32 ENSG00000157152 2574 nt UTR 2 hits 798 2261

-----1-----1-----  
-----  
>ENSG00000157152 hs-mir-32 798 805  
UAUUGCACAUUACUAAGUUGC&UACUAUGAGAUUUUUAAAAAUGGGGCCGCGAUGUGCAAUAU  
((((((((((((((((.....(((&.....)))))))))..)))))))). -19.40  
>ENSG00000157152 hs-mir-32 2261 2268  
UAUUGCACAUUACUAAGUUGC&AGUACCUCUCUUUUGUGACUCUUGUACAGCUAAUGUGCAAUA  
((((((((((((((((.....(((&.....)))))))))..)))))))). -22.80  
mir-32 ENSMUSG00000009394 2752 nt UTR 2 hits 780 2208

-----1-----1-----  
-----  
>ENSMUSG00000009394 hs-mir-32 780 787  
UAUUGCACAUUACUAAGUUGC&UACAAGAUAAAAAAAAAAAAUAAGGGGCCGCGAUGUGCAAUAU  
((((((((((((((((.....(((&.....)))))))))..)))))))). -18.30  
>ENSMUSG00000009394 hs-mir-32 2208 2215  
UAUUGCACAUUACUAAGUUGC&CAUCUCCCUUUUGUGAUUCUCUUGUACAGCUAAUGUGCAAUA  
((((((((((((((((.....(((&.....)))))))))..)))))))). -21.00  
mir-32 ENSRNOG00000008157 2750 nt UTR 2 hits 767 2144

-----1-----1-----  
-----  
>ENSRNOG00000008157 hs-mir-32 767 774  
UAUUGCACAUUACUAAGUUGC&GCUAAAGGUUAAAAAAAAAAUCAAGGGGCCGCGAUGUGCAAUAU  
((((((((((((((((.....(((&.....)))))))))..)))))))). -19.40  
>ENSRNOG00000008157 hs-mir-32 2144 2151  
UAUUGCACAUUACUAAGUUGC&CAUCUCCCUUUUGUGAUUCUCUUGUACAGCUAAUGUGCAAUA  
((((((((((((((((.....(((&.....)))))))))..)))))))). -21.00

miRNA: mir-32

Human predicted target: ENSG00000159388

Mouse predicted target: ENSMUSG00000041551

Rat predicted target: ENSRNOG00000003300

Hs Gene description: BTG2 PROTEIN (NGF-INDUCIBLE ANTI-PROLIFERATIVE PROTEIN PC3). [Source:SWISSPROT;Acc:P78543] NM\_006763

mir-32 ENSG00000159388 4164 nt UTR 2 hits 1059 1370

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

>ENSG00000159388 hs-mir-32 1059 1066  
UAUUGCACAUUACUAAGUUGC&UACCGUAUUUUCUAGGACAAGAGUUCUCAGUCACUGUGCAAUAU  
((((((((((..(((..((..((&.....))))..))))..))))..))))..)))).. -17.00

>ENSG00000159388 hs-mir-32 1370 1377  
UAUUGCACAUUACUAAGUUGC&UCUGUCUCAGUACAAUCCAAAUUUGUCGUAGACUUGUGCAAUAU  
((((((((((..(((..((.....&.....))))..))))..))))..)))).. -17.20

mir-32 ENSMUSG00000041551 4042 nt UTR 2 hits 1039 1340

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

>ENSMUSG00000041551 hs-mir-32 1039 1046  
UAUUGCACAUUACUAAGUUGC&GGCCCUAUUUCUAGGACAAGCGUUCUCAGUCACUGUGCAAUAG  
((((((((((..(((..((..((&.....))))..))))..))))..))))..)))).. -19.50

>ENSMUSG00000041551 hs-mir-32 1340 1347  
UAUUGCACAUUACUAAGUUGC&CUCUCUAGUAAAAUCCAAAUUUUUGUAGAUGUGUGCAAUAU  
(((((((((((((.....&.....))))..))))..))))..)))).. -20.54

mir-32 ENSRNOG00000003300 3981 nt UTR 2 hits 1019 1304

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

>ENSRNOG00000003300 hs-mir-32 1019 1026  
UAUUGCACAUUACUAAGUUGC&GGCCCAUUCUAGGACAAGAGUUCUCAAUCACUGUGCAAUAG  
((((((((((.....&.....))))..))))..))))..)))).. -15.70

>ENSRNOG00000003300 hs-mir-32 1304 1311  
UAUUGCACAUUACUAAGUUGC&CCCCUCAGUAAAAUCCAAAUUUUUGUAGAUGUGUGCAAUAU  
((((((((((..(((..((.....&.....))))..))))..))))..)))).. -18.30

miRNA: mir-33b

Human predicted target: ENSG00000148660

Mouse predicted target: ENSMUSG00000021820

Rat predicted target: ENSRNOG00000009783

Hs Gene description: CALCIUM/CALMODULIN-DEPENDENT PROTEIN KINASE TYPE II GAMMA CHAIN (EC 2.7.1.123) (CAM-KINASE II GAMMA CHAIN) (CAM KINASE II GAMMA SUBUNIT) (CAMK-II GAMMA SUBUNIT) (FRAGMENT).

[Source:SWISSPROT;Acc:Q13555]

mir-33b ENSG00000148660 4019 nt UTR 4 hits 138 775 2642 3279

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

>ENSG00000148660 hs-mir-33b 138 145  
GUGCAUUGCUGUUGCAUUG&GUUUAAAACAAUUCAAUACAAAAGCGGCAGCAGCCAAUGCACG

((((((((((((((((((.....&.....)))))))))).)))))))). -29.70  
>ENSG00000148660 hs-mir-33b 775 782  
GUGCAUUGCUGUUGCAUUG&GACAUGCACUCACUCAUCCAUUUCUAUAGGAUGCACAAUGCAUG  
((((((((((((((((((.....&.....)))))))))).)))))))). -19.80  
>ENSG00000148660 hs-mir-33b 2642 2649  
GUGCAUUGCUGUUGCAUUG&GUUUAAAACAAUUCAAUUACAAAAGCGGCAGCAGCCAAUGCAGC  
((((((((((((((((((.....&.....)))))))))).)))))))). -29.70  
>ENSG00000148660 hs-mir-33b 3279 3286  
GUGCAUUGCUGUUGCAUUG&GACAUGCACUCACUCAUCCAUUUCUAUAGGAUGCACAAUGCAUG  
((((((((((((((((((.....&.....)))))))))).)))))))). -19.80  
mir-33b ENSMUSG00000021820 2000 nt UTR 2 hits 558 1198

-----1-----1-----  
-----  
>ENSMUSG00000021820 hs-mir-33b 558 565  
GUGCAUUGCUGUUGCAUUG&GGUUUAAAACAAUUCAAUUACAAAAGCGGCAGCAGCCAAUGCAGC  
((((((((((((((((((.....&.....)))))))))).)))))))). -28.60  
>ENSMUSG00000021820 hs-mir-33b 1198 1205  
GUGCAUUGCUGUUGCAUUG&ACAUGCACUUAACUCAUCCAUUUCUAGAGGAUGCACAAUGCAGC  
((((((((((((((((((.....&.....)))))))))).)))))))). -22.10  
mir-33b ENSRNOG00000009783 2000 nt UTR 2 hits 808 1452

-----1-----1-----  
-----  
>ENSRNOG00000009783 hs-mir-33b 808 815  
GUGCAUUGCUGUUGCAUUG&GGUUUAAAACAAUUCAAUUACAAAAGCGGCAGCAGCCAAUGCAGC  
((((((((((((((((((.....&.....)))))))))).)))))))). -28.60  
>ENSRNOG00000009783 hs-mir-33b 1452 1459  
GUGCAUUGCUGUUGCAUUG&GACACGCACUUAACUCAUCCAUUUCUAUAGGAUGCACAAUGCAGC  
((((((((((((((((((.....&.....)))))))))).)))))))). -22.10

miRNA: mir-33  
Human predicted target: ENSG00000148660  
Mouse predicted target: ENSMUSG00000021820  
Rat predicted target: ENSRNOG00000009783  
Hs Gene description: CALCIUM/CALMODULIN-DEPENDENT PROTEIN KINASE TYPE II  
GAMMA CHAIN (EC 2.7.1.123) (CAM-KINASE II GAMMA CHAIN) (CAM KINASE II  
GAMMA SUBUNIT) (CAMK-II GAMMA SUBUNIT) (FRAGMENT).

[Source:SWISSPROT;Acc:Q13555]  
mir-33 ENSG00000148660 4019 nt UTR 4 hits 138 775 2642 3279  
-----1-----1-----  
-----1-----1-----  
-----

>ENSG00000148660 hs-mir-33 138 145  
GUGCAUUGUAGUUGCAUUG&GUUUAAAACAAUUCAAUUACAAAAGCGGCAGCAGCCAAUGCAGC  
((((((((((((((((((.....&.....)))))))))).)))))))). -23.60  
>ENSG00000148660 hs-mir-33 775 782  
GUGCAUUGUAGUUGCAUUG&GACAUGCACUCACUCAUCCAUUUCUAUAGGAUGCACAAUGCAUG  
((((((((((((((((((.....&.....)))))))))).)))))))). -19.90

>ENSG00000148660 hs-mir-33 2642 2649  
GUGCAUUGUAGUUGCAUUG&GUUUAAAACAAUUCAAUUCAAAAGCGGCAGCAGCCAAUGCACG  
((((((((((..((((((.....&.....)))))))))..)))))))). -23.60  
>ENSG00000148660 hs-mir-33 3279 3286  
GUGCAUUGUAGUUGCAUUG&GACAUGCACUCACUCAUCCAUUUCUAUAGGAUGCACAAUGCAUG  
((((((((((..((((((.....&.....)))))))))..)))))))). -19.90  
mir-33 ENSMUSG00000021820 2000 nt UTR 2 hits 558 1198  
-----1-----1-----

>ENSMUSG00000021820 hs-mir-33 558 565  
GUGCAUUGUAGUUGCAUUG&GGUUUAAAACAAUUCAAUUCAAAAGCGGCAGCAGCCAAUGCACG  
((((((((((..((((((.....&.....)))))))))..)))))))). -22.50  
>ENSMUSG00000021820 hs-mir-33 1198 1205  
GUGCAUUGUAGUUGCAUUG&ACAUGCACUUAACUCAUCCAUUUCUAGAGGAUGCACAAUGCACG  
((((((((((..((((((.....&.....)))))))))..)))))))). -22.20  
mir-33 ENSRNOG00000009783 2000 nt UTR 2 hits 808 1452  
-----1-----1-----

>ENSRNOG00000009783 hs-mir-33 808 815  
GUGCAUUGUAGUUGCAUUG&GGUUUAAAACAAUUCAAUUCAAAAGCGGCAGCAGCCAAUGCACG  
((((((((((..((((((.....&.....)))))))))..)))))))). -22.50  
>ENSRNOG00000009783 hs-mir-33 1452 1459  
GUGCAUUGUAGUUGCAUUG&GACACGCACUUAACUCAUCCAUUUCUAGAGGAUGCACAAUGCACG  
((((((((((..((((((.....&.....)))))))))..)))))))). -22.20

miRNA: mir-34  
Human predicted target: ENSG00000068366  
Mouse predicted target: ENSMUSG00000031278  
Rat predicted target: ENSRNOG00000019180  
Hs Gene description: LONG-CHAIN-FATTY-ACID--COA LIGASE 4 (EC 6.2.1.3)  
(LONG-CHAIN ACYL-COA SYNTHETASE 4) (LACS 4). [Source:SWISSPROT;Acc:O60488]  
NM\_004458

mir-34 ENSG00000068366 4694 nt UTR 2 hits 1913 4660  
-----1-----1-----

>ENSG00000068366 hs-mir-34 1913 1920  
UGGCAGUGUCUAGCUGGUUGU&ACCCCAAUCUGCCCCAACUCCCAAAGCUAGAACACUGCCAA  
((((((((((..((((((.....&.....)))))))))..)))))))). -30.60  
>ENSG00000068366 hs-mir-34 4660 4667  
UGGCAGUGUCUAGCUGGUUGU&CUGCUAUUCUACAAAGUCUCUGAAAAACAGCUAUCCACUGCCU  
..((((((((((..((((((.....&.....)))))))))..)))))))). -25.64  
mir-34 ENSMUSG00000031278 2042 nt UTR 2 hits 1916 2016  
-----1-----1-----

>ENSMUSG00000031278 hs-mir-34 1916 1923  
UGGCAGUGUCUAGCUGGUUGU&UGCACCCACCCACUCCCAUCUCCGAAGCUGGAACACUGCCAA

((((((((((..((((((((&..)))))).....)))))))). -27.85  
>ENSMUSG00000031278 hs-mir-34 2016 2023  
UGGCAGUGUCUUAGCUGGUUGU&GAAAAUCCAAACACGUUAAGGGACCAGGGAGAUGCCACUGCCC  
((((((((((..((((((((&.....)))))).....)))))))). -27.70  
mir-34 ENSRNOG00000019180 4667 nt UTR 2 hits 1902 2006

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

>ENSRNOG00000019180 hs-mir-34 1902 1909  
UGGCAGUGUCUUAGCUGGUUGU&UGCACCCACCCACAGCCAUCUCCCAAAGCUGGAACACUGCCAA  
((((((((((..((((((((&.....)))))).....)))))))). -32.70  
>ENSRNOG00000019180 hs-mir-34 2006 2013  
UGGCAGUGUCUUAGCUGGUUGU&AUCCUAACACACACGUUAAGGGACCAGGGAGAUGCCACUGCCC  
((((((((((..((((((((&.....)))))).....)))))))). -27.70

miRNA: mir-34  
Human predicted target: ENSG00000072778  
Mouse predicted target: ENSMUSG00000018574  
Rat predicted target: ENSRNOG00000018114  
Hs Gene description: ACYL-COA DEHYDROGENASE, VERY-LONG-CHAIN SPECIFIC,  
MITOCHONDRIAL PRECURSOR (EC 1.3.99.-) (VLCAD).

[Source:SWISSPROT;Acc:P49748]  
mir-34 ENSG00000072778 2168 nt UTR 3 hits 1118 1124 1345  
-----2-----1-----

-----  
>ENSG00000072778 hs-mir-34 1118 1125  
UGGCAGUGUCUUAGCUGGUUGU&CCGAAGGCUGCCCCUCGGCUGGAGGGCUCAGACUCACUGCCAC  
((((((((((..((((((((&.....)))))).....)))))))). -27.00  
>ENSG00000072778 hs-mir-34 1124 1131  
UGGCAGUGUCUUAGCUGGUUGU&GCUGCCCCUCGGCUGGAGGGCUCAGACUCACUGCCACUGCCGG  
((((((((((..((((((((&.....)))))).....)))))))). -24.70  
>ENSG00000072778 hs-mir-34 1345 1352  
UGGCAGUGUCUUAGCUGGUUGU&UGGGGAUGACUUAACCCUCACUAUGCUGGCUGGCACUGCCC  
((((((((((..((((((((&.....)))))).....)))))))). -31.10  
mir-34 ENSMUSG00000018574 2113 nt UTR 4 hits 143 1054 1060 1322

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

>ENSMUSG00000018574 hs-mir-34 143 150  
UGGCAGUGUCUUAGCUGGUUGU&ACUGUCUGCCGUGAAUGUCACUGCUCCCUCCUCUCCACUGCCU  
((((((((((..((((((((&.....)))))).....)))))))). -20.20  
>ENSMUSG00000018574 hs-mir-34 1054 1061  
UGGCAGUGUCUUAGCUGGUUGU&CCGAAGGCUGCCUCCCGGCUGGAGAGUUCUGACUCACUGCCAC  
((((((((((..((((((((&.....)))))).....)))))))). -28.20  
>ENSMUSG00000018574 hs-mir-34 1060 1067  
UGGCAGUGUCUUAGCUGGUUGU&GCUGCCUCCCGGCUGGAGAGUUCUGACUCACUGCCACUGCCGG  
((((((((((..((((((((&.....)))))).....)))))))). -27.26  
>ENSMUSG00000018574 hs-mir-34 1322 1329



UGGCAGUGUCUUAGCUGGUUGU&AGUGGGUCACUUACCCUCACUGUGCUGGCUGGCACUGCCU  
(((((((((((((.....)))))))).)))). -31.50  
mir-34 ENSRNOG00000018114 2087 nt UTR 4 hits 176 1105 1111 1348  
-----1-----2-----1-----  
-----  
>ENSRNOG00000018114 hs-mir-34 176 183  
UGGCAGUGUCUUAGCUGGUUGU&AAGAACAAUAAAUUUUCUACCAAGUCCCUCCUCUCCACUGCCU  
((((((((.....)))))))). -18.46  
>ENSRNOG00000018114 hs-mir-34 1105 1112  
UGGCAGUGUCUUAGCUGGUUGU&CCGAAGGCUGCCUCCCGGCUGGAGAGUUCAGACUCACUGCCAC  
((((((((((((((((.....)))))))).)))). -28.20  
>ENSRNOG00000018114 hs-mir-34 1111 1118  
UGGCAGUGUCUUAGCUGGUUGU&GCUGCCUCCCGGCUGGAGAGUUCAGACUCACUGCCACUGCCAG  
((((((((((((((((.....)))))))).)))). -27.96  
>ENSRNOG00000018114 hs-mir-34 1348 1355  
UGGCAGUGUCUUAGCUGGUUGU&UAUUGGUAACUUACCCUCACUGUGCUGGCUGGCACUGCCU  
((((((((((((((((.....)))))))).)))). -31.50

miRNA: mir-34

Human predicted target: ENSG00000073598  
Mouse predicted target: ENSMUSG00000018844  
Rat predicted target: ENSRNOG00000008264  
Rat predicted target: ENSRNOG00000009413  
Hs Gene description: NM\_017559

mir-34 ENSG00000073598 2298 nt UTR 3 hits 213 1914 2180  
-----1-----  
--1-----1-----  
>ENSG00000073598 hs-mir-34 213 220  
UGGCAGUGUCUUAGCUGGUUGU&GGAGGCAUCUCAGGCCAGGCCAUGCCAGGCUCAGCCACUGCCC  
((((((((((((((((.....)))))))).)))). -27.50  
>ENSG00000073598 hs-mir-34 1914 1921  
UGGCAGUGUCUUAGCUGGUUGU&CAUUCUCAGGUCCCCACUGGUGGGGAGGGUGUGUGCACUGCCAU  
((((((((((((((((.....)))))))).)))). -25.11  
>ENSG00000073598 hs-mir-34 2180 2187  
UGGCAGUGUCUUAGCUGGUUGU&CCCUGCUCUGCCCACCAAACUCAGGCUGCCCACUCACUGCCU  
((((((((.....)))))))). -23.00  
mir-34 ENSMUSG00000018844 3129 nt UTR 2 hits 232 1204  
-----1-----1-----  
-----  
>ENSMUSG00000018844 hs-mir-34 232 239  
UGGCAGUGUCUUAGCUGGUUGU&CACCUAGUGACAUCUUGAGCUGGCCAGGCUCAGUCACUGCCC  
((((((((((((((((.....)))))))).)))). -27.60  
>ENSMUSG00000018844 hs-mir-34 1204 1211  
UGGCAGUGUCUUAGCUGGUUGU&GGAAAAGGACAUGGGAGCCAGAUGCCUGGCUUCCCCACUGCCAG  
((((((((.....)))))))). -26.10  
mir-34 ENSRNOG00000008264 2000 nt UTR 2 hits 233 1648

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

>ENSRNOG00000008264 hs-mir-34 233 240  
UGGCAGUGUCUUAGCUGGUUGU&CACCUAGUGACAUCUUGGGCUGGGCCAGGCUCAGUCACUGCCC  
.(((((((((((((.....&.....)))))))).)))). -29.90  
>ENSRNOG00000008264 hs-mir-34 1648 1655  
UGGCAGUGUCUUAGCUGGUUGU&CUGUGGGAGGAAAGGAAAGGGAUGGGAGGGCUCCACACUGCCU  
.(((((((((((((.....&.....)))))))).)))). -23.10  
mir-34 ENSRNOG00000009413 2306 nt UTR 2 hits 224 1639

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

>ENSRNOG00000009413 hs-mir-34 224 231  
UGGCAGUGUCUUAGCUGGUUGU&CACCUAGUGACAUCUUGGGCUGGGCCAGGCUCAGUCACUGCCC  
.(((((((((((((.....&.....)))))))).)))). -29.90  
>ENSRNOG00000009413 hs-mir-34 1639 1646  
UGGCAGUGUCUUAGCUGGUUGU&CUGUGGGAGGAAAGGAAAGGGAUGGGAGGGCUCCACACUGCCU  
.(((((((((((((.....&.....)))))))).)))). -23.10

miRNA: mir-34

Human predicted target: ENSG00000105245  
Mouse predicted target: ENSMUSG00000007895  
Rat predicted target: ENSRNOG00000020867  
Hs Gene description: NUMB-LIKE PROTEIN (NUMB-R).  
[Source:SWISSPROT;Acc:Q9Y6R0] NM\_004756

mir-34 ENSG00000105245 2777 nt UTR 2 hits 226 488

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

>ENSG00000105245 hs-mir-34 226 233  
UGGCAGUGUCUUAGCUGGUUGU&CAGGGACGGACCCAGCCUGGCUAAGGGAACCAUUCACUGCCGG  
((((((((((((((((.....&.....)))))))).)))). -32.00  
>ENSG00000105245 hs-mir-34 488 495  
UGGCAGUGUCUUAGCUGGUUGU&AAGCUAAGGGCUGCCCUCUGCCCACACGCUGCGUUCACUGCCAA  
((((((((((((((((.....&.....)))))))).)))). -25.06  
mir-34 ENSMUSG00000007895 2721 nt UTR 2 hits 227 428

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

>ENSMUSG00000007895 hs-mir-34 227 234  
UGGCAGUGUCUUAGCUGGUUGU&CAGGGAUGGACCCAGCCUGGCUAAGGGAACCAUUCACUGCCGG  
((((((((((((((((.....&.....)))))))).)))). -32.00  
>ENSMUSG00000007895 hs-mir-34 428 435  
UGGCAGUGUCUUAGCUGGUUGU&CAAGCUAAGGGCUUCCUCUCUGCCCACGCUGUGUUCACUGCCAA  
((((((((((((((((.....&.....)))))))).)))). -26.70  
mir-34 ENSRNOG00000020867 2000 nt UTR 2 hits 231 472

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

>ENSRNOG00000020867 hs-mir-34 231 238  
UGGCAGUGUCUUAGCUGGUUGU&CAGGGAUGGACCCAGCCUGGCUAAGGGAACCAUUCACUGCCGG

```
((((((((((((((((((((((((((((((((.&.....)))))))))))))))))). -32.00
>ENSRNOG00000020867 hs-mir-34 472 479
UGGCAGUGUCUUAGCUGGUUGU&CAAGCUAAGGGCUUCCAUCUGCCCAAGCUGUGUUCACUGCCAA
((((((((((...((((((((...&.....)))))))))))). -26.50
```

miRNA: mir-34

Human predicted target: ENSG00000112577

Mouse predicted target: ENSMUSG00000014773

Rat predicted target: ENSRNOG00000014667

Hs Gene description: DELTA-LIKE PROTEIN 1 PRECURSOR (DROSOPHILA DELTA  
HOMOLOG 1) (DELTA1) (H-DELTA-1). [Source:SWISSPROT;Acc:000548] NM\_005618

mir-34 ENSG00000112577 2661 nt UTR 3 hits 197 293 356

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

```
>ENSG00000112577 hs-mir-34 197 204
UGGCAGUGUCUUAGCUGGUUGU&CUGCCGACAGCCUGUCGCGGCCCGCCGCGCCUGCGGCACUGCCU
.((((((((((...((((((((...&.....)))))))))))). -31.30
```

```
>ENSG00000112577 hs-mir-34 293 300
UGGCAGUGUCUUAGCUGGUUGU&UAAAUGGGUGAACUGAAUUACGCAUAAGAAGCAUGCACUGCCU
.((((((((((...((((((((...&.....)))))))))))). -22.80
```

```
>ENSG00000112577 hs-mir-34 356 363
UGGCAGUGUCUUAGCUGGUUGU&U AUGAGCCAGUCUUUUCUGAAUUAGAAACACAAACACUGCCU
.((((((((((...((((((((...&.....)))))))))))). -24.35
```

mir-34 ENSMUSG00000014773 2675 nt UTR 3 hits 165 290 1214

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

```
>ENSMUSG00000014773 hs-mir-34 165 172
UGGCAGUGUCUUAGCUGGUUGU&AAGCUGGUUCUCUCAGAGUUAGCAGAGGCGCCCGACACUGCCAG
((((((((((...((((((((...&.....)))))))))))). -29.20
```

```
>ENSMUSG00000014773 hs-mir-34 290 297
UGGCAGUGUCUUAGCUGGUUGU&AAUGGACGAGUGACUUGAUUCAUAUAGGAAGCACGCACUGCCC
.((((((((((...((((((((...&.....)))))))))))). -22.00
```

```
>ENSMUSG00000014773 hs-mir-34 1214 1221
UGGCAGUGUCUUAGCUGGUUGU&UGACAGGAGAGAAAAUGGAGUUAGUGGGUGAAGUCACUGCCAC
((((((((((...((((((((...&.....)))))))))))). -25.10
```

mir-34 ENSRNOG00000014667 2366 nt UTR 2 hits 170 295

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

```
>ENSRNOG00000014667 hs-mir-34 170 177
UGGCAGUGUCUUAGCUGGUUGU&GAGCUGGUUCUCUCGGAGUUAGCAGAGGCGCCGGACACUGCCAG
((((((((((...((((((((...&.....)))))))))))). -31.00
```

```
>ENSRNOG00000014667 hs-mir-34 295 302
UGGCAGUGUCUUAGCUGGUUGU&AAUGGACGAGUGACUUGAUUCACACAGGAAGCACGCACUGCCGG
((((((((((...((((((((...&.....)))))))))))). -24.90
```

miRNA: mir-34

Human predicted target: ENSG00000117308  
Mouse predicted target: ENSMUSG00000028671  
Rat predicted target: ENSRNOG00000009712  
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&CUCCCCAUGGCACUGGAGUAUGGCCAGGUCCUUGGCACUGCCAU  
((((((((((..((((((&.....)))).)).....)))))))). -31.60  
mir-34 ENSMUSG00000028671 2319 nt UTR 2 hits 1443 1880

-----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

miRNA: mir-34

Human predicted target: ENSG00000127837  
Mouse predicted target: ENSMUSG00000006299  
Rat predicted target: ENSRNOG00000014399  
Hs Gene description: ANGIO-ASSOCIATED MIGRATORY CELL PROTEIN.  
[Source:SWISSPROT;Acc:Q13685] NM\_001087  
mir-34 ENSG00000127837 2410 nt UTR 2 hits 981 1191

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

>ENSG00000127837 hs-mir-34 981 988  
UGGCAGUGUCUUAGCUGGUUGU&GUGUAGCGCUGAUCGCCAGCCCAUGGCUACGGGCACUGCCGC  
((((((((((((((((((((((..&.....)))))))).)).....)))))))). -33.70  
>ENSG00000127837 hs-mir-34 1191 1198

```

UGGCAGUGUCUUAGCUGGUUGU&AGGGCCCAGGGCCAGGGCGGAGGGCUCAUCGCGGCACACUGCCC
.(((((((((((((.....)))))).....)))))))). -23.80
mir-34      ENSMUSG0000006299  2387 nt UTR    3 hits 1020 1296 1717
-----1-----1-----1-----
>ENSMUSG0000006299 hs-mir-34  1020  1027
UGGCAGUGUCUUAGCUGGUUGU&AGAGCCCUAGCCAGGGUUGAGGGUACAUCGCGGCACACUGCCC
.(((((((((((((.....)))))).....)))))))). -26.41
>ENSMUSG0000006299 hs-mir-34  1296  1303
UGGCAGUGUCUUAGCUGGUUGU&AGCCGCACACUCCAUGGGGCCGAGUGGCUGCAACACUGCCAU
(((((((((((((.....)))))).....)))))))). -28.10
>ENSMUSG0000006299 hs-mir-34  1717  1724
UGGCAGUGUCUUAGCUGGUUGU&UGGAGGAGUGGCCAGAGUUAGGUUGGUCCUGCAGUCACUGCCC
.(((((((((((((.....)))))).....)))))))). -26.51
mir-34      ENSRNOG00000014399  2393 nt UTR    2 hits 825 1294
-----1-----1-----

```

```

>ENSRNOG00000014399 hs-mir-34  825  832
UGGCAGUGUCUUAGCUGGUUGU&CAGACCCAUGGCCACAGGCACAACUGCAGCACUGGCACUGCCC
.(((((((((((((.....)))))).....)))))))). -30.70
>ENSRNOG00000014399 hs-mir-34  1294  1301
UGGCAGUGUCUUAGCUGGUUGU&AGCCGCACACUCCAUGGGGCCGAGUGGCUGCAACACUGCCAU
(((((((((((((.....)))))).....)))))))). -28.10

```

miRNA: mir-34

```

Human predicted target: ENSG00000148400
Mouse predicted target: ENSMUSG00000026923
Rat predicted target: ENSRNOG00000019322
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-----
>ENSG00000148400 hs-mir-34  909  916
UGGCAGUGUCUUAGCUGGUUGU&CACACGGAGGCAUCCUACCCUUUCUGGGGAAAGACACUGCCU
.(((((((((((((.....&.....)))))).....)))))))). -25.90
>ENSG00000148400 hs-mir-34  2299  2306
UGGCAGUGUCUUAGCUGGUUGU&GCCAGCCUCACACAAGGGUGGGCCCUUCUCUCCCCACUGCCU
.(((((((((((((.....&)))))).....)))))))). -21.86
>ENSG00000148400 hs-mir-34  2398  2405
UGGCAGUGUCUUAGCUGGUUGU&GUGGGGAGUCUGAGAUCUCCUCUUUGGAUUGCAAAGCACUGCCU
.(((((((((((((.....&.....)))))).....)))))))). -21.55
>ENSG00000148400 hs-mir-34  2714  2721
UGGCAGUGUCUUAGCUGGUUGU&CAUCACUCAGUACAGCCACAGACAGCCUGAGCGUCCACUGCCAA
(((((((((((((.....&.....)))))).....)))))))). -28.20
mir-34      ENSMUSG00000026923  3625 nt UTR    3 hits 187 458 800

```



mir-34 ENSMUSG00000049265 2531 nt UTR 2 hits 1188 2156  
-----1-----

-----1-----  
>ENSMUSG00000049265 hs-mir-34 1188 1195  
UGGCAGUGUCUUAGCUGGUUGU&GGGUUUAACCCAGAAUCAAAAGCCCCAGCCUGAGCCACUGCCAG  
(((((((((((((.....&.....)))))))).))))). -31.70  
>ENSMUSG00000049265 hs-mir-34 2156 2163  
UGGCAGUGUCUUAGCUGGUUGU&GCCUUUCUGCUUCCCCAUGCCUUAUGCCUGGGGCACACUGCCAC  
(((((((((((((.....&.....)))))))).))))). -27.10  
mir-34 ENSRNOG00000009790 2729 nt UTR 2 hits 1325 2299

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

>ENSRNOG00000009790 hs-mir-34 1325 1332  
UGGCAGUGUCUUAGCUGGUUGU&CUAAACCAGAAUCCAAAGCCCCCACCGCCUGAGCCACUGCCAG  
(((((((((((((.....&.....)))))))).))))). -29.40  
>ENSRNOG00000009790 hs-mir-34 2299 2306  
UGGCAGUGUCUUAGCUGGUUGU&GCCUCUCUGCUUCCCCAUGCCUUAUGCCUGGGGCACACUGCCAC  
(((((((((((((.....&.....)))))))).))))). -27.10

miRNA: mir-34  
Human predicted target: ENSG00000179036  
Mouse predicted target: ENSMUSG00000020894  
Rat predicted target: ENSRNOG00000006989  
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-----

--  
>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&AGAGGGGUGGCUACCAGUGUGUGUGGGGGUCAUCACUGCCU  
(((((((((((((.....&.....)))))))).))))). -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-----  
-----

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

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

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

mir-34 ENSRNOG00000006989 4248 nt UTR 4 hits 1629 1761 1813 2899

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

>ENSRNOG00000006989 hs-mir-34 1629 1636  
UGGCAGUGUCUUAGCUGGUUGU&UGAGGAGGGGUGGCUCUAGUGUGUGUGGGGGUCAUCACUGCCU  
.(((((((((((((.....&.....))))))))))))). -21.40

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

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

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

miRNA: mir-92  
Human predicted target: ENSG00000065559  
Mouse predicted target: ENSMUSG00000033352  
Rat predicted target: ENSRNOG00000003834  
Hs Gene description: DUAL SPECIFICITY MITOGEN-ACTIVATED PROTEIN KINASE  
KINASE 4 (EC 2.7.1.-) (MAP KINASE KINASE 4) (JNK ACTIVATING KINASE 1) (C-  
JUN N- TERMINAL KINASE KINASE 1) (JNKK) (SAPK/ERK KINASE 1) (SEK1).  
[Source:SWISSPROT;Acc:P45985] NM\_003010  
mir-92 ENSG00000065559 2000 nt UTR 2 hits 105 508

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

>ENSG00000065559 hs-mir-92 105 112  
UAUUGCACUUGUCCCGGCCUGU&UAUCACAGUGUUUUUAUUGCUCGCC CAGACACCAUGUGCAAUAA  
(((((((((((((.....&.....))))))))))))). -23.70

>ENSG00000065559 hs-mir-92 508 515  
UAUUGCACUUGUCCCGGCCUGU&UGGGAGACAAAGGAGGAAUUUACUUCUUCACCAAGUGCAAUAG



((((((((((((((((((((.....&)))))).....)))))))). -22.72  
mir-92 ENSMUSG00000033352 3369 nt UTR 2 hits 105 503

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

>ENSMUSG00000033352 hs-mir-92 105 112  
UAUUGCACUUGUCCCGGCCUGU&UAUCACAGUGUUUUUAUUGCUCGCCAGACACCAUGUGCAAUAA  
((((((((((((((((.....&.....)))))).....)))))). -23.70

>ENSMUSG00000033352 hs-mir-92 503 510  
UAUUGCACUUGUCCCGGCCUGU&UGGGAGACAGAGGAAGGAUUCUUUCUUCACCAAGUGCAAUAG  
((((((((((((((((.....&.....)))))).....)))))). -22.83

mir-92 ENSRNOG00000003834 4378 nt UTR 2 hits 108 508  
-----1-----1-----  
-----

>ENSRNOG00000003834 hs-mir-92 108 115  
UAUUGCACUUGUCCCGGCCUGU&UAUCACAGUGUUUUUAUUGCUCGCCAGACACCAUGUGCAAUAA  
((((((((((((((((.....&.....)))))).....)))))). -23.70

>ENSRNOG00000003834 hs-mir-92 508 515  
UAUUGCACUUGUCCCGGCCUGU&UGGGAGACAAAGGAAGGAUUCUUUUUCACCAAGUGCAAUAG  
((((((((((((((((.....&.....)))))).....)))))). -23.13

miRNA: mir-92  
Human predicted target: ENSG00000109670  
Mouse predicted target: ENSMUSG00000028086  
Rat predicted target: ENSRNOG00000010889  
Hs Gene description: F-BOX PROTEIN FBW7 ISOFORM 2; ARCHIPELAGO,  
DROSOPHILA, HOMOLOG OF; F-BOX PROTEIN FBW7; F-BOX PROTEIN SEL-10; HOMOLOG  
OF C ELEGANS SEL-10. [Source:RefSeq;Acc:NM\_018315] NM\_018315  
mir-92 ENSG00000109670 3622 nt UTR 2 hits 286 1596

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

>ENSG00000109670 hs-mir-92 286 293  
UAUUGCACUUGUCCCGGCCUGU&AGCUUUGCAAAAUGAGACUUUCUAAAUCAACCAGGUGCAAUU  
((((((((((((((((.....&.....)))))).....)))))). -17.30

>ENSG00000109670 hs-mir-92 1596 1603  
UAUUGCACUUGUCCCGGCCUGU&GAUUCACUUAGAAAUUUUUAUUUUCUUAUAACUUAAGUGCAAUAA  
((((((((((((((((.....&.....)))))).....)))))). -17.70

mir-92 ENSMUSG00000028086 2086 nt UTR 2 hits 327 1630  
-----1-----1-----  
-----

>ENSMUSG00000028086 hs-mir-92 327 334  
UAUUGCACUUGUCCCGGCCUGU&GCAGCUUGGCAAGACGACUCUAAAUCCAACCAGGUGCAAUU  
((((((((((((((((.....&.....)))))).....)))))). -20.21

>ENSMUSG00000028086 hs-mir-92 1630 1637  
UAUUGCACUUGUCCCGGCCUGU&GAUUCACUUAGAAAUUUUUAUUUUCUUAUAACUUAAGUGCAAUAA  
((((((((((((((((.....&.....)))))).....)))))). -17.70

mir-92 ENSRNOG00000010889 3663 nt UTR 2 hits 381 1638

-----1-----1-----  
-----  
>ENSRNOG00000010889 hs-mir-92 381 388  
UAUUGCACUUGUCCCGGCCUGU&GCAGCUUGGCGAAAGGAGACUCUAAACCCAACCAGGUGCAAUU  
.(((((((((((((((((((((((((&)))))).)))))).))))).)).....)))))))))). -22.45  
>ENSRNOG00000010889 hs-mir-92 1638 1645  
UAUUGCACUUGUCCCGGCCUGU&GAUUCACUUAGAAAUUUUUAUUUUUCUUAUAACUUAAGUGCAAUAA  
((((((((((((((((((((((((&.....)))))))))))))). -17.70

miRNA: mir-92

Human predicted target: ENSG00000110237  
Mouse predicted target: ENSMUSG00000032875  
Rat predicted target: ENSRNOG00000019192  
Hs Gene description: NM\_014786

mir-92 ENSG00000110237 2000 nt UTR 1 hits 325

-----1-----  
-----  
>ENSG00000110237 hs-mir-92 325 332  
UAUUGCACUUGUCCCGGCCUGU&CUGGGUCUGGACCCACGGGGCUGGGGAGGGCCAUGUGCAAUUAU  
((((((((((((((((((((((((&.....))))))))))))).)).....)))))))))). -30.70  
mir-92 ENSMUSG00000032875 2000 nt UTR 1 hits 312

-----1-----  
-----  
>ENSMUSG00000032875 hs-mir-92 312 319  
UAUUGCACUUGUCCCGGCCUGU&GCCAGGCCUGGACCCACAGGGCUGGGGAGGCCGUGUGCAAUUAU  
((((((((((((((((((((((((&.....))))))))))))).)).....)))))))))). -30.50  
mir-92 ENSRNOG00000019192 3240 nt UTR 1 hits 312

-----1-----  
-----  
>ENSRNOG00000019192 hs-mir-92 312 319  
UAUUGCACUUGUCCCGGCCUGU&GCUGGGCCUGGACCCACAGGGCUGGGGAGGCCGUGUGCAAUUAU  
((((((((((((((((((((((((&.....))))))))))))).)).....)))))))))). -30.50

miRNA: mir-92

Human predicted target: ENSG00000110848  
Mouse predicted target: ENSMUSG00000030156  
Rat predicted target: ENSRNOG00000007909  
Hs Gene description: EARLY ACTIVATION ANTIGEN CD69 (EARLY T-CELL  
ACTIVATION ANTIGEN P60) (GP32/28) (LEU-23) (MLR-3) (EA1) (BL-AC/P26)  
(ACTIVATION INDUCER MOLECULE) (AIM). [Source:SWISSPROT;Acc:Q07108]  
NM\_001781

mir-92 ENSG00000110848 2991 nt UTR 3 hits 758 870 907

-----1-1-1-----  
-----  
>ENSG00000110848 hs-mir-92 758 765  
UAUUGCACUUGUCCCGGCCUGU&GAAUAUUUGCAAGACAUAAGAAUAGUGUUGGAAAUGUGCAAUUAU

((((((((.....(((((((((&.....)))))).....)))))))). -22.90  
>ENSG00000110848 hs-mir-92 870 877  
UAUUGCACUUGUCCCGGCCUGU&AUAGGUUUGUGACUUUCCUAAAUCAAUUCUAUUACGUGCAAUAC  
((((((((.....(((((((((&)))))).....)))))))). -20.95  
>ENSG00000110848 hs-mir-92 907 914  
UAUUGCACUUGUCCCGGCCUGU&GCAAUACUUCAAUUCUUAUUAAAUAUUUUUAUGUGCAAUAA  
((((((((.....&.....)))))))). -14.60  
mir-92 ENSMUSG00000030156 2937 nt UTR 2 hits 714 839

-----1-----1-----  
-----  
>ENSMUSG00000030156 hs-mir-92 714 721  
UAUUGCACUUGUCCCGGCCUGU&UUUGUAGAGCAGAUUUCAAAGUGCUGGAAAGAAAAGUGCAAUAC  
((((((((.....(((((((((&.....)))))).....)))))))). -25.40  
>ENSMUSG00000030156 hs-mir-92 839 846  
UAUUGCACUUGUCCCGGCCUGU&GUCUUUCCAGUCCUUGUCCAAAUAUUUCCCAUGUGCAAUAA  
((((((((.....((.....&.....)))))).....)))))))). -17.10  
mir-92 ENSRNOG00000007909 2000 nt UTR 2 hits 723 850

-----1-----1-----  
-----  
>ENSRNOG00000007909 hs-mir-92 723 730  
UAUUGCACUUGUCCCGGCCUGU&UUUGUAGAGCAGAUUUCAAAGUGUUACAAAGAAAAGUGCAAUAU  
((((((((.....(((((((((&.....)))))).....)))))))). -18.10  
>ENSRNOG00000007909 hs-mir-92 850 857  
UAUUGCACUUGUCCCGGCCUGU&GUCUUUUGCAGUCCUUAUCCAAAGUAUUUCCCAUGUGCAAUAA  
((((((((.....((.....&.....)))))).....)))))))). -17.35

miRNA: mir-92

Human predicted target: ENSG00000128641  
Mouse predicted target: ENSMUSG00000018417  
Rat predicted target: ENSRNOG00000015227  
Hs Gene description: MYOSIN IB (MYOSIN I ALPHA) (MMI-ALPHA) (MMIA) (MYH-1C) (FRAGMENT). [Source:SWISSPROT;Acc:O43795]

mir-92 ENSG00000128641 3426 nt UTR 2 hits 45 932  
-1-----1-----  
-----  
>ENSG00000128641 hs-mir-92 45 52  
UAUUGCACUUGUCCCGGCCUGU&CCUCUCUACUUCUUAUGGACUUGUCCUUGUAAUAGUGCAAUU  
((((((((.....((((((((&.....)))))).....)))))))). -17.09  
>ENSG00000128641 hs-mir-92 932 939  
UAUUGCACUUGUCCCGGCCUGU&AGCCAUUCAGAUAGCAGUAAAACAUCUGUAUGAUGUGCAAUAA  
((((((((.....((((((((&.....)))))).....)))))))). -17.40  
mir-92 ENSMUSG00000018417 2758 nt UTR 3 hits 45 477 1458  
-1-----1-----1-----

-----  
>ENSMUSG00000018417 hs-mir-92 45 52  
UAUUGCACUUGUCCCGGCCUGU&CCUCUCUGCUCUCACGGACUUGUUCUCCUCGUAACAGUGCAAUU  
((((((((.....((((((((&.....)))))).....)))))))). -17.80

>ENSMUSG00000018417 hs-mir-92 477 484  
UAUUGCACUUGUCCCGGCCUGU&GAGAGCCGUUCAGACUGGCAGAUCUUCUCUUUGAUGUGCAAUAA  
((((((((((..(((..(((..&..)))))).....)))))).....)))))))). -21.05  
>ENSMUSG00000018417 hs-mir-92 1458 1465  
UAUUGCACUUGUCCCGGCCUGU&GAGAGCCGUUCAGACUGGCAGAUCUUCUCUUUGAUGUGCAAUAA  
((((((((((..(((..(((..&..)))))).....)))))).....)))))))). -21.05  
mir-92 ENSRNOG00000015227 2061 nt UTR 2 hits 48 1142  
-1-----1-----

>ENSRNOG00000015227 hs-mir-92 48 55  
UAUUGCACUUGUCCCGGCCUGU&CCUCUCUGUUCUCACGGACUUGUUCCUCGUAACAGUGCAAUU  
((((((((((..(((..(((..&.....)))))).....)))))).....)))))))). -17.80  
>ENSRNOG00000015227 hs-mir-92 1142 1149  
UAUUGCACUUGUCCCGGCCUGU&GAGAGCCAUUCAGACUGGCAGAUCUUCUCUUUGAUGUGCAAUAA  
((((((((((..(((..(((..&.....)))))).....)))))).....)))))))). -19.93

miRNA: mir-92

Human predicted target: ENSG00000155744  
Mouse predicted target: ENSMUSG00000038174  
Rat predicted target: ENSRNOG00000011327  
Rat predicted target: ENSRNOG00000012078  
Hs Gene description: NM\_173822

mir-92 ENSG00000155744 4800 nt UTR 2 hits 275 506  
-----1-----1-----  
-----  
-----

>ENSG00000155744 hs-mir-92 275 282  
UAUUGCACUUGUCCCGGCCUGU&UGCCUUUCCAUGCCUUCUUCUCCUUGGGUGAUGUGCAAUC  
((((((((((..(((..(((..&.....)))))).....)))))).....)))))))). -20.71  
>ENSG00000155744 hs-mir-92 506 513  
UAUUGCACUUGUCCCGGCCUGU&GAGAUUCUGCUAUGACUUUGGACUUCUCUGAGUCUGUGCAAUC  
((((((((((..(((..(((..&.....)))))).....)))))).....)))))))). -15.84  
mir-92 ENSMUSG00000038174 2575 nt UTR 2 hits 256 485  
-----1-----1-----

>ENSMUSG00000038174 hs-mir-92 256 263  
UAUUGCACUUGUCCCGGCCUGU&UGCCUUUCCAUGCCUUCUUCUCCUUGGGUGAUGUGCAAUC  
((((((((((..(((..(((..&.....)))))).....)))))).....)))))))). -20.71  
>ENSMUSG00000038174 hs-mir-92 485 492  
UAUUGCACUUGUCCCGGCCUGU&GAGAUUCUGCUAUGACUUUGGCUUCUCUGAGCCUGUGCAAUU  
((((((((((..(((..(((..&.....)))))).....)))))).....)))))))). -19.70  
mir-92 ENSRNOG00000011327 2572 nt UTR 2 hits 257 489  
-----1-----1-----

>ENSRNOG00000011327 hs-mir-92 257 264  
UAUUGCACUUGUCCCGGCCUGU&UUUGCCUUCCUGCCUUCUUCUCCUUGGGUGAUGUGCAAUC  
((((((((((..(((..(((..&.....)))))).....)))))).....)))))))). -19.70

>ENSRNOG00000011327 hs-mir-92 489 496  
UAUUGCACUUGUCCCGGCCUGU&AGAUUCUGCUAUGACUUUGGGCUUUCUCUGAGUCUGUGCAAUU  
.((((((((...(((...&.....)))))).....)).....)))). -17.60  
mir-92 ENSRNOG00000012078 2572 nt UTR 2 hits 257 489

-----1-----1-----  
>ENSRNOG00000012078 hs-mir-92 257 264  
UAUUGCACUUGUCCCGGCCUGU&UUUGCCUUUCCUGCCUUCUUUCUCUUGGGUGAUGUGCAAUC  
.((((((((...(((...&.....)))))).....)).....)))). -19.70  
>ENSRNOG00000012078 hs-mir-92 489 496  
UAUUGCACUUGUCCCGGCCUGU&AGAUUCUGCUAUGACUUUGGGCUUUCUCUGAGUCUGUGCAAUU  
.((((((((...(((...&.....)))))).....)).....)))). -17.60

miRNA: mir-92  
Human predicted target: ENSG00000156052  
Mouse predicted target: ENSMUSG00000024639  
Rat predicted target: ENSRNOG00000014183  
Hs Gene description: GUANINE NUCLEOTIDE-BINDING PROTEIN G(Q), ALPHA  
SUBUNIT. [Source:SWISSPROT;Acc:P50148] NM\_002072  
mir-92 ENSG00000156052 2401 nt UTR 2 hits 1556 1940

-----1-----  
---1-----  
>ENSG00000156052 hs-mir-92 1556 1563  
UAUUGCACUUGUCCCGGCCUGU&UGAACCUACCAGGAGAAAUGUUUGGAAUUCUAUAUGUGCAAUU  
.((((((((...(((...&.....)))))).....)).....)))). -16.80  
>ENSG00000156052 hs-mir-92 1940 1947  
UAUUGCACUUGUCCCGGCCUGU&CCUGUAAUUUAACAAACAGACUGCCUGUAGGUUAUAGUGCAAUU  
.((((((((...(((...&.....)))))).....)).....)))). -22.10  
mir-92 ENSMUSG00000024639 2342 nt UTR 2 hits 1605 1940

-----1-----  
---1-----  
>ENSMUSG00000024639 hs-mir-92 1605 1612  
UAUUGCACUUGUCCCGGCCUGU&CGAUCAUACUAGGAGGAUGUUUGGAAUUCUCCAUGUGCAAUU  
.((((((((...(((...&.....)))))).....)).....)))). -22.59  
>ENSMUSG00000024639 hs-mir-92 1940 1947  
UAUUGCACUUGUCCCGGCCUGU&CCUGUAAUUUAUUUAACAGACUGCCUGUAGGUUAUAGUGCAAUU  
.((((((((...(((...&.....)))))).....)).....)))). -22.10  
mir-92 ENSRNOG00000014183 2317 nt UTR 2 hits 1570 1906

-----1-----  
--1-----  
>ENSRNOG00000014183 hs-mir-92 1570 1577  
UAUUGCACUUGUCCCGGCCUGU&CGAUCAUACUAGGAGAGAUGUUUGGAAUUCUCCAUGUGCAAUU  
.((((((((...(((...&.....)))))).....)).....)))). -16.40  
>ENSRNOG00000014183 hs-mir-92 1906 1913  
UAUUGCACUUGUCCCGGCCUGU&CCUGUAAUUUAUUUAACAGACUGCCUGUAGGUACAGUGCAAUU  
.((((((((...(((...&.....)))))).....)).....)))). -22.50

miRNA: mir-92

Human predicted target: ENSG00000157152

Mouse predicted target: ENSMUSG00000009394

Rat predicted target: ENSRNOG00000008157

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

mir-92 ENSG00000157152 2574 nt UTR 2 hits 798 2261

-----1-----  
-----1-----  
>ENSG00000157152 hs-mir-92 798 805  
UAUUGCACUUGUCCCGGCCUGU&UACUAUGAGAUUUUAAAAAUGGGGCCGUGAUGUGCAAUAU  
((((((((((..(((..(((..&.....))))))..)))))))). -26.60

>ENSMUSG00000157152 hs-mir-92 2261 2268  
UAUUGCACUUGUCCCGGCCUGU&AGUACCUCUCUUUUGUGACUCUUGUACAGCUAAUGUGCAAUAA  
((((((((((.....((..(((&.....))))))..)))))))). -17.10  
mir-92 ENSMUSG00000009394 2752 nt UTR 2 hits 780 2208

-----1-----  
-----1-----  
>ENSMUSG00000009394 hs-mir-92 780 787  
UAUUGCACUUGUCCCGGCCUGU&UACAAGAUAAAAAAAAAAAAUAAGGGGCCGCGAUGUGCAAUAU  
((((((((((..(((..(((..&.....))))))..)))))))). -26.20

>ENSMUSG00000009394 hs-mir-92 2208 2215  
UAUUGCACUUGUCCCGGCCUGU&CAUCUCCCUUUUGUGAUUCUCUUGUACAGCUCAAUGUGCAAUAA  
((((((((((..(((..(((..&.....))))))..)))))))). -18.40  
mir-92 ENSRNOG00000008157 2750 nt UTR 2 hits 767 2144

-----1-----  
-----1-----  
>ENSRNOG00000008157 hs-mir-92 767 774  
UAUUGCACUUGUCCCGGCCUGU&GCUAAAGGUAAAAAAAAAAUCAAGGGGCCGCGAUGUGCAAUAU  
((((((((((..(((..(((..&.....))))))..)))))))). -26.20

>ENSRNOG00000008157 hs-mir-92 2144 2151  
UAUUGCACUUGUCCCGGCCUGU&CAUCUCCCUUUUGUGAUUCUCUUGUACAGCUCAAUGUGCAAUAA  
((((((((((..(((..(((..&.....))))))..)))))))). -18.40

miRNA: mir-92

Human predicted target: ENSG00000159388

Mouse predicted target: ENSMUSG00000041551

Rat predicted target: ENSRNOG00000003300

Hs Gene description: BTG2 PROTEIN (NGF-INDUCIBLE ANTI-PROLIFERATIVE PROTEIN PC3). [Source:SWISSPROT;Acc:P78543] NM\_006763

mir-92 ENSG00000159388 4164 nt UTR 2 hits 1059 1370

-----1-----1-----  
-----1-----  
>ENSG00000159388 hs-mir-92 1059 1066  
UAUUGCACUUGUCCCGGCCUGU&UACCGUAUUUUCUAGGACAAGAGUUCUCAGUCACUGUGCAAUAU  
((((((((((..(((..(((..&.....))))))..)))))))). -20.26

>ENSG00000159388 hs-mir-92 1370 1377  
UAUUGCACUUGUCCCGGCCUGU&UCUGUCUCAGUACAAUCCAAAUUUGUCGUAGACUUGUGCAAUAU  
(((((((((((((...&.....)))))))).)))). -22.90  
mir-92 ENSMUSG00000041551 4042 nt UTR 2 hits 1039 1340  
-----1-----1-----  
-----

>ENSMUSG00000041551 hs-mir-92 1039 1046  
UAUUGCACUUGUCCCGGCCUGU&GGCCCUAUUUCUAGGACAAGCGUUCUCAGUCACUGUGCAAUAG  
(((((((((((((((...&)))))))).)))). -24.06  
>ENSMUSG00000041551 hs-mir-92 1340 1347  
UAUUGCACUUGUCCCGGCCUGU&CUCUCUUAGUAAAUAUCCAAAUUUUUAUUGUAGAUGUGUGCAAUAU  
(((((((((((((...&.....)))))))).)))). -16.60  
mir-92 ENSRNOG00000003300 3981 nt UTR 2 hits 1019 1304  
-----1-----1-----  
-----

>ENSRNOG00000003300 hs-mir-92 1019 1026  
UAUUGCACUUGUCCCGGCCUGU&GGCCCAUUCUAGGACAAGAGUUCUCAAUACACUGUGCAAUAG  
(((((((((((((((...&)))))))).)))). -24.06  
>ENSRNOG00000003300 hs-mir-92 1304 1311  
UAUUGCACUUGUCCCGGCCUGU&CCCUCAGUAAAUAUCCAAAUUUUUAUUGUAGAUGUGUGCAAUAU  
(((((((((((((...&.....)))))))).)))). -16.60

miRNA: mir-92

Human predicted target: ENSG00000167565  
Mouse predicted target: ENSMUSG00000046654  
Rat predicted target: ENSRNOG00000020964  
Rat predicted target: ENSRNOG00000020972  
Hs Gene description: RPA-BINDING TRANS-ACTIVATOR.

[Source:RefSeq;Acc:NM\_013368] NM\_013368  
mir-92 ENSG00000167565 2645 nt UTR 1 hits 519  
-----1-----  
-----

>ENSG00000167565 hs-mir-92 519 526  
UAUUGCACUUGUCCCGGCCUGU&AGCAGCCUCCUGAUUCAUAACCAGGCCGGACCACGUGCAAUAG  
(((((((((((((...&.....)))))))).)))). -35.20  
mir-92 ENSMUSG00000046654 2627 nt UTR 1 hits 428  
-----1-----  
-----

>ENSMUSG00000046654 hs-mir-92 428 435  
UAUUGCACUUGUCCCGGCCUGU&CAGCAGCCUCCUGAUUCAUAACCAGGCCGGACCAUGUGCAAUAG  
(((((((((((((...&.....)))))))).)))). -35.20  
mir-92 ENSRNOG00000020964 2000 nt UTR 1 hits 448  
-----1-----  
-----

>ENSRNOG00000020964 hs-mir-92 448 455

UAUUGCACUUGUCCCGGCCUGU&CAGCAGCCUCCUGAUUCAUAACCAGGCCGGACCUUGUGCAAUAG  
((((((((((..(((((..&.....)))))))))..)))). -34.60  
mir-92 ENSRNOG00000020972 2000 nt UTR 1 hits 448

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

>ENSRNOG00000020972 hs-mir-92 448 455  
UAUUGCACUUGUCCCGGCCUGU&CAGCAGCCUCCUGAUUCAUAACCAGGCCGGACCUUGUGCAAUAG  
((((((((((..(((((..&.....)))))))))..)))). -34.60

miRNA: mir-92

Human predicted target: ENSG00000168090  
Mouse predicted target: ENSMUSG00000019494  
Rat predicted target: ENSRNOG00000001346  
Hs Gene description: COP9 SUBUNIT 6 (MOV34 HOMOLOG, 34 KD).  
[Source:RefSeq;Acc:NM\_006833] NM\_006833

mir-92 ENSG00000168090 2118 nt UTR 1 hits 1796  
-----1-----

>ENSG00000168090 hs-mir-92 1796 1803  
UAUUGCACUUGUCCCGGCCUGU&CGCAGUGUUGGGCCGGCACUGUCAGACCGAGACAAGUGCAAUGC  
((((((((((((((((((((((..&.....))))))))).....)))))))). -35.43  
mir-92 ENSMUSG00000019494 2107 nt UTR 1 hits 1470

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

>ENSMUSG00000019494 hs-mir-92 1470 1477  
UAUUGCACUUGUCCCGGCCUGU&UGCAGUGUUGGGCCGGCACUGUCAGACCGAGACAAGUGCAAUGC  
((((((((((((((((((((((..&.....))))))))).....)))))))). -35.43  
mir-92 ENSRNOG00000001346 2091 nt UTR 1 hits 1261

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

>ENSRNOG00000001346 hs-mir-92 1261 1268  
UAUUGCACUUGUCCCGGCCUGU&UGCAGUGUUGGGCCGGCACUGUCAGACCGAGACAAGUGCAAUGC  
((((((((((((((((((((((..&.....))))))))).....)))))))). -35.43

miRNA: mir-92

Human predicted target: ENSG00000173517  
Mouse predicted target: ENSMUSG00000043561  
Rat predicted target: ENSRNOG00000016824

mir-92 ENSG00000173517 7992 nt UTR 2 hits 850 1308  
-----1-----1-----

>ENSG00000173517 hs-mir-92 850 857  
UAUUGCACUUGUCCCGGCCUGU&AGCUGGCAGGGCAUGAGGAGAUGAUUUUCUUGCAUGUGCAAUU



.(((((((.((((((.((((.((&..)).)))..))))). -23.75  
>ENSG00000173517 hs-mir-92 1308 1315

UAUUGCACUUGUCCCGGCCUGU&UGUGUGCAGCCUGUGCUCUCCCUUCUAUGGAUAUGUGUGCAAUU  
.(((((((.((((((.((((.((&.....))))). -21.93  
mir-92 ENSMUSG00000043561 3319 nt UTR 2 hits 778 1262

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

>ENSMUSG00000043561 hs-mir-92 778 785  
UAUUGCACUUGUCCCGGCCUGU&AGUUGGCAGGAUAUGAAGAAAUAUAUGUCCUUAUGUGUGCAAUU

.(((((((.((((((.((((.((&.....))))). -20.30  
>ENSMUSG00000043561 hs-mir-92 1262 1269

UAUUGCACUUGUCCCGGCCUGU&GUUCCCGUGGAGCCCGGGCUCUCCCGUGAAUUAUGUGCAAUU  
.(((((((.((((((.((((.((&.....).)).)))..))))). -22.93  
mir-92 ENSRNOG00000016824 2000 nt UTR 2 hits 816 1284

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

>ENSRNOG00000016824 hs-mir-92 816 823  
UAUUGCACUUGUCCCGGCCUGU&AUAGUGGGCAGGAUAUGAAGAAAUAUAUGUCCUUAUGUGCAAUU

.(((((((.((((((.((((.((&...)).)))..))))). -22.10  
>ENSRNOG00000016824 hs-mir-92 1284 1291

UAUUGCACUUGUCCCGGCCUGU&GUUCCCAUGAAGCCUGUGCUCUCCCGUGAAUUAUGUGCAAUU  
.(((((((.((((((.((((.(.....&.....).)).)))..))))). -17.70

miRNA: mir-92

Human predicted target: ENSG00000182158

Mouse predicted target: ENSMUSG00000038648

Rat predicted target: ENSRNOG00000012826

mir-92 ENSG00000182158 2000 nt UTR 1 hits 593  
-----1-----

>ENSG00000182158 hs-mir-92 593 600  
UAUUGCACUUGUCCCGGCCUGU&AGGCGAGGGCUCUCGUUCAUAUUCUCAGGCCGCAAGUGCAAUGC

(((((((((.((((((.((((.((&.....))))). -31.60  
mir-92 ENSMUSG00000038648 2000 nt UTR 1 hits 547

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

>ENSMUSG00000038648 hs-mir-92 547 554  
UAUUGCACUUGUCCCGGCCUGU&GCAGAUGGGCUCUCCACCAUAUUUCAGGCCGCAAGUGCAAUU

.(((((((.((((((.((((.((&.....))))). -30.40  
mir-92 ENSRNOG00000012826 3289 nt UTR 2 hits 493 1796

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

>ENSRNOG00000012826 hs-mir-92 493 500  
UAUUGCACUUGUCCCGGCCUGU&GCAGACGGGACUCCACCACAUAUUUCAGGCCGCAAGUGCAAUU

.(((((((.((((((.((((.((&.....))))). -30.40  
>ENSRNOG00000012826 hs-mir-92 1796 1803

UAUUGCACUUGUCCCGGCCUGU&GCAGACGGGACUCCACCACAUAUUUCAGGCCGCAAGUGCAAUU

.((((((((((((((...(((((((&.....))))))))))))))))). -30.40

miRNA: mir-93

Human predicted target: ENSG00000105855

Mouse predicted target: ENSMUSG00000025321

Rat predicted target: ENSRNOG00000006569

Hs Gene description: INTEGRIN BETA-8 PRECURSOR.

[Source:SWISSPROT;Acc:P26012] NM\_002214

mir-93 ENSG00000105855 2799 nt UTR 3 hits 230 2063 2209

-----1-----

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

>ENSG00000105855 hs-mir-93 230 237

AAAGUGCUGUUCGUGCAGGUAG&UGUGUCUACUACUGUUUGAGACUAGUGUCGUUGUAGCACUUUA

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

>ENSG00000105855 hs-mir-93 2063 2070

AAAGUGCUGUUCGUGCAGGUAG&UUUUUAUAAUAAACUCCAAGAUUUGCUGUCUCCAGCACUUG

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

>ENSG00000105855 hs-mir-93 2209 2216

AAAGUGCUGUUCGUGCAGGUAG&AACACAGCAGCUCUGUUGAUGUCCUCUACAGCCAAGCACUUUC

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

mir-93 ENSMUSG00000025321 2000 nt UTR 2 hits 509 611

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

-----

>ENSMUSG00000025321 hs-mir-93 509 516

AAAGUGCUGUUCGUGCAGGUAG&CUUAAUUAUUUAACAUAAGAAUUAUAGUGCUAUAAGCACUUA

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

>ENSMUSG00000025321 hs-mir-93 611 618

AAAGUGCUGUUCGUGCAGGUAG&AUUUUUUUCACUAACAUCUGAGACUUGCUCUAGAGCACUUG

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

mir-93 ENSRNOG00000006569 2000 nt UTR 2 hits 217 1601

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

-----

>ENSRNOG00000006569 hs-mir-93 217 224

AAAGUGCUGUUCGUGCAGGUAG&CUAUGUGUCUACUACUGUUGGAGACUAGCGUUGUAGCACUUUA

((((((((((((...(((((((&))))))))))))))))). -20.65

>ENSRNOG00000006569 hs-mir-93 1601 1608

AAAGUGCUGUUCGUGCAGGUAG&UCUAAAGAGUGUCUCUCCUCAGUUUACUGCUCUCCAGCACUUG

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

miRNA: mir-93

Human predicted target: ENSG00000110066

Mouse predicted target: ENSMUSG00000045098

Rat predicted target: ENSRNOG00000016790

Hs Gene description: CGI-85 PROTEIN ISOFORM 1.

[Source:RefSeq;Acc:NM\_017635]

mir-93 ENSG00000110066 2595 nt UTR 3 hits 88 1277 1959

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

-----1-----

>ENSG00000110066 hs-mir-93 88 95  
AAAGUGCUGUUCGUGCAGGUAG&CCAGUCAAUUAUCCUCAACUGAAAGUUUAGUGGCAGCACUUC  
.(((((((((((((..((...(((&.....))))))..))..)))))))). -18.80  
>ENSG00000110066 hs-mir-93 1277 1284  
AAAGUGCUGUUCGUGCAGGUAG&AAACAAAAGGAGUCAGAUUUAAUUUGUUUUUGAAGCACUUUG  
((((((((((.....((((((..&.....))))))..)))))))). -18.62  
>ENSG00000110066 hs-mir-93 1959 1966  
AAAGUGCUGUUCGUGCAGGUAG&ACAGCCUCUCAGGAGCACCUGUCCGAGGCACCCGGAGCACUUUG  
((((((((((.....((((((..&.....))))))..))))..)))))))). -25.61  
mir-93 ENSMUSG00000045098 2000 nt UTR 2 hits 61 1224

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

-----

>ENSMUSG00000045098 hs-mir-93 61 68  
AAAGUGCUGUUCGUGCAGGUAG&UAAAAGUAAAAUCCCGCCACAGCUUCUUGGCACAGCACUUC  
.(((((((((((((..((...(((&.....))))))..))..)))))))). -21.80  
>ENSMUSG00000045098 hs-mir-93 1224 1231  
AAAGUGCUGUUCGUGCAGGUAG&AACAAAAGAGGAGUCAGAUUUAAUUUGUUUUUGAAGCACUUUG  
((((((((((.....((((((..&.....))))))..))))..)))))))). -19.20  
mir-93 ENSRNOG00000016790 2000 nt UTR 2 hits 65 1242

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

-----

>ENSRNOG00000016790 hs-mir-93 65 72  
AAAGUGCUGUUCGUGCAGGUAG&AAAAGUAAAAUCCCGCCACAGCUUCUCAGCGCAGCACUUC  
.(((((((((((((..((...(((&.....))))))..))..)))))))). -20.70  
>ENSRNOG00000016790 hs-mir-93 1242 1249  
AAAGUGCUGUUCGUGCAGGUAG&AACAAAAGAGGAGUCAGAUUUAAUUUGUUUUUGAAGCACUUUG  
((((((((((.....((((((..&.....))))))..))))..)))))))). -19.20

miRNA: mir-93

Human predicted target: ENSG00000124209  
Mouse predicted target: ENSMUSG00000027519  
Rat predicted target: ENSRNOG00000005762  
Hs Gene description: RAS-RELATED PROTEIN RAB-22A (RAB-22).

[Source:SWISSPROT;Acc:Q9UL26] NM\_020673  
mir-93 ENSG00000124209 3680 nt UTR 3 hits 340 543 1061

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

-----

>ENSG00000124209 hs-mir-93 340 347  
AAAGUGCUGUUCGUGCAGGUAG&UCAAGAUUUUAUGUAACAUAUUGUAAAGGGAAAUAUAGCACUUUU  
(((((((((((((..((((((..&.....))))))..))))..)))))))). -19.10  
>ENSG00000124209 hs-mir-93 543 550  
AAAGUGCUGUUCGUGCAGGUAG&ACUGAUGGAAAUGAUUCAUCUCUGCCAUCUCUAAAGCACUUUU  
((((((((((.....((((((&.....))))))..))))..)))))))). -19.13  
>ENSG00000124209 hs-mir-93 1061 1068  
AAAGUGCUGUUCGUGCAGGUAG&AGACUCAAGCACAUUGGUUAUUGUAUAAAGGUAUAGAGCACUUA

```

(((((((((((((.....&.....)))))))).))))). -16.50
mir-93    ENSMUSG00000027519    5553 nt UTR    3 hits 320 467 2104
-----1-----1-----
-----1-----
-
>ENSMUSG00000027519 hs-mir-93    320    327
AAAGUGCUGUUCGUGCAGGUAG&GGUCAGGAUUUCAUGUGUUUUUGUAAGGGAAAUGAGCACUUUC
(((((((((((((.....&.....)))))))).))))). -21.00
>ENSMUSG00000027519 hs-mir-93    467    474
AAAGUGCUGUUCGUGCAGGUAG&AUGGGUGUUCUAGGACAGCUUCCGCCAUCUCUAAAGCACUUUG
(((((((((((((.....&.....)))))))).))))). -17.00
>ENSMUSG00000027519 hs-mir-93    2104    2111
AAAGUGCUGUUCGUGCAGGUAG&CUUCUUUUUAAGAACGCAUAUGAAAAACAGUCAUAGCACUUUU
((((((((((((((((.....&.....)))))))).))))). -17.80
mir-93    ENSRNOG00000005762    2966 nt UTR    6 hits 309 432 900 1219 1366
1885
-----1-----1-----1-----1-----1-----
-1-----
>ENSRNOG00000005762 hs-mir-93    309    316
AAAGUGCUGUUCGUGCAGGUAG&UAAUCAGGAUUC AUGUAUCAUUGUAAAGGGAAACAAGCACUUUC
(((((((((((((.....&.....)))))))).))))). -18.80
>ENSRNOG00000005762 hs-mir-93    432    439
AAAGUGCUGUUCGUGCAGGUAG&UGGGAAGUGAUCACAAGUAGAUGGGUGGUCUCUAAAGCACUUUG
(((((((((((((.....&.....)))))))).))))). -15.10
>ENSRNOG00000005762 hs-mir-93    900    907
AAAGUGCUGUUCGUGCAGGUAG&AGGAAACUCUGAAGCCCCAUUUACCUUGUGUAUGGAGCACUUA
(((((((((((((.....&.....)))))))).))))). -22.80
>ENSRNOG00000005762 hs-mir-93    1219    1226
AAAGUGCUGUUCGUGCAGGUAG&UAAUCAGGAUUC AUGUAUCAUUGUAAAGGGAAACAAGCACUUUC
(((((((((((((.....&.....)))))))).))))). -18.80
>ENSRNOG00000005762 hs-mir-93    1366    1373
AAAGUGCUGUUCGUGCAGGUAG&GUGGAUGUCCUGGGACAGUUCUCACCGUCUCUAAAGCACUUUG
((((((((((((((((.....&.....)))))))).))))). -18.06
>ENSRNOG00000005762 hs-mir-93    1885    1892
AAAGUGCUGUUCGUGCAGGUAG&UGAAGCCCCAUUUACCUUGUGUAGAAGAAGCAUGGAGCACUUA
(((((((((((((.....&.....)))))))).))))). -22.90

```

miRNA: mir-93

Human predicted target: ENSG00000161642

Mouse predicted target: ENSMUSG00000000552

Rat predicted target: ENSRNOG00000017818

Hs Gene description: NM\_015481

mir-93 ENSG00000161642 3120 nt UTR 2 hits 499 588

```

-----1-----1-----
-----
>ENSG00000161642 hs-mir-93    499    506

```



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

>ENSRNOG00000001346 hs-mir-93 471 478  
AAAGUGCUGUUCGUGCAGGUAG&AAUCCAUCUCCAAGGCCUUAUACCUCACAGCUUGACUAGCACUUA  
.(((((((((((((.((((.(((((((.&.....))))))..)))..)))))))). -24.50  
>ENSRNOG00000001346 hs-mir-93 1503 1510  
AAAGUGCUGUUCGUGCAGGUAG&AGCAGUAGGUCAGGCAAUGCACUACCUGCACGAACAGCACUUUG  
(((((((((((((((.((((.(((((((.&.....))))))..)))..)))))))). -45.20  
>ENSRNOG00000001346 hs-mir-93 1710 1717  
AAAGUGCUGUUCGUGCAGGUAG&GCGGUAGCACAGAGAGACCACUAUCUGCACUGUCAGCACUUUA  
((((((((((((((..(((.(((((((.&.....))))))..)))..)))))))). -33.40

miRNA: mir-93

Human predicted target: ENSG00000177463

Mouse predicted target: ENSMUSG00000005893

Rat predicted target: ENSRNOG00000010536

Hs Gene description: ORPHAN NUCLEAR RECEPTOR TR4 (ORPHAN NUCLEAR RECEPTOR TAK1). [Source:SWISSPROT;Acc:P49116] NM\_003298

mir-93 ENSG00000177463 2329 nt UTR 3 hits 414 425 1839

-----2-----

1-----

>ENSG00000177463 hs-mir-93 414 421  
AAAGUGCUGUUCGUGCAGGUAG&GAAUUAUAGAUACUAAUUAACCAGGGUAAUAAUUAUAGCACUUUC  
((((((((((((((..(((.(((((((.&.....))))))..)))..)))))))). -19.70  
>ENSG00000177463 hs-mir-93 425 432  
AAAGUGCUGUUCGUGCAGGUAG&ACUAAUUAACCAGGGUAAUAAUUAUAGCACUUUCUUAAGCACUUA  
.((((((((((((((..(((.(((((((.&.....))))))..)))..)))))))). -21.00  
>ENSG00000177463 hs-mir-93 1839 1846  
AAAGUGCUGUUCGUGCAGGUAG&AGGCAGAACAGGAUGCUUGAUCCUGAAGGGUUAGCAGCACUUUA  
((((((((((((((((..(((.(((((((.&.....))))))..)))..)))))))). -23.60  
mir-93 ENSMUSG00000005893 2326 nt UTR 3 hits 378 389 534

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

-----

>ENSMUSG00000005893 hs-mir-93 378 385  
AAAGUGCUGUUCGUGCAGGUAG&UGGAAUUAUAGCUACUAAUUAACCAGGGUAAUGUUAGCACUUUC  
((((((((((((((((..(((.(((((((.&.....))))))..)))..)))))))). -21.50  
>ENSMUSG00000005893 hs-mir-93 389 396  
AAAGUGCUGUUCGUGCAGGUAG&GCUACUAAUUAACCAGGGUAAUGUUAGCACUUUCUUAAGCACUUC  
.((((((((((((((((..(((.(((((((.&.....))))))..)))..)))))))). -18.72  
>ENSMUSG00000005893 hs-mir-93 534 541  
AAAGUGCUGUUCGUGCAGGUAG&GUACAGGAGACAAUCGUUCACAUUUGUAAGAGGGCAGCACUUC  
.((((((((((((((((..(((.(((((((.&.....))))))..)))..)))))))). -26.70  
mir-93 ENSRNOG00000010536 2545 nt UTR 3 hits 372 383 496

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

-----

>ENSRNOG00000010536 hs-mir-93 372 379  
AAAGUGCUGUUCGUGCAGGUAG&UGGAAUUAUAGCUACUAAUUAACCAGGGUAAUGUUAGCACUUUC

((((((((((.....(((.....&.....)))))).....)))))))). -21.50  
>ENSRNOG00000010536 hs-mir-93 383 390  
AAAGUGCUGUUCGUGCAGGUAG&GCUACUAAUUAACCAGGGUAAUGUUAGCACUUUCUAAGCACUUA  
((((((((((.....(((.....&.....)))))).....)))))))). -19.32  
>ENSRNOG00000010536 hs-mir-93 496 503  
AAAGUGCUGUUCGUGCAGGUAG&CAUCAGGAGACAAUCGUUCACAUUUUAUAAGCGGCAGCACUUC  
((((((((((.....(((.....&.....)))))).....)))))))). -19.50

miRNA: mir-94

Human predicted target: ENSG00000105855

Mouse predicted target: ENSMUSG00000025321

Rat predicted target: ENSRNOG00000006569

Hs Gene description: INTEGRIN BETA-8 PRECURSOR.

[Source:SWISSPROT;Acc:P26012] NM\_002214

mir-94 ENSG00000105855 2799 nt UTR 3 hits 230 2063 2209

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

>ENSG00000105855 hs-mir-94 230 237  
AAAGUGCUGACAGUGCAGAU&UGUGUCUUACUACUGUUUGAGACUAGUGUCGUUGUAGCACUUUA  
((((((((((.....(((.....&.....)))))).....)))))))). -19.46

>ENSG00000105855 hs-mir-94 2063 2070  
AAAGUGCUGACAGUGCAGAU&UUUUUAUAAUAAACUCCAAGAUUUGCUGUCUCCAGCACUUG  
((((((((((.....(((.....&.....)))))).....)))))))). -22.80

>ENSG00000105855 hs-mir-94 2209 2216  
AAAGUGCUGACAGUGCAGAU&AACACAGCAGCUCUGUUAGAUGUCCUCUACAGCCAAGCACUUUC  
((((((((((.....(((.....&.....)))))).....)))))))). -21.20

mir-94 ENSMUSG00000025321 2000 nt UTR 2 hits 509 611  
-----1-----1-----

-----  
>ENSMUSG00000025321 hs-mir-94 509 516  
AAAGUGCUGACAGUGCAGAU&CUUAAUUAUUUAACAUAAGAAUUAUAGUGCUAUAAAGCACUUA  
((((((((((.....(((.....&.....)))))).....)))))))). -19.20

>ENSMUSG00000025321 hs-mir-94 611 618  
AAAGUGCUGACAGUGCAGAU&AUUUUUUCACUAACAAUCUGAGACUUGCUCUAGAGCACUUG  
((((((((((.....(((.....&.....)))))).....)))))))). -18.50

mir-94 ENSRNOG00000006569 2000 nt UTR 2 hits 217 1601  
-----1-----1-----

-----  
>ENSRNOG00000006569 hs-mir-94 217 224  
AAAGUGCUGACAGUGCAGAU&CUAUGUGUCUUACUACUGUUGGAGACUAGCGUUGUAGCACUUUA  
((((((((((.....(((.....&.....)))))).....)))))))). -21.80

>ENSRNOG00000006569 hs-mir-94 1601 1608  
AAAGUGCUGACAGUGCAGAU&UCUAAAGAGUGUCUCUCCUCAGUUUACUGCUCUCCAGCACUUG  
((((((((((.....(((.....&.....)))))).....)))))))). -24.00

miRNA: mir-94

Human predicted target: ENSG00000119508  
Mouse predicted target: ENSMUSG00000028341  
Rat predicted target: ENSRNOG00000005964  
Hs Gene description: NUCLEAR HORMONE RECEPTOR NOR-1 (NEURON-DERIVED ORPHAN RECEPTOR 1) (MITOGEN INDUCED NUCLEAR ORPHAN RECEPTOR).

[Source:SWISSPROT;Acc:Q92570] NM\_173199

mir-94 ENSG00000119508 5024 nt UTR 2 hits 283 1577

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

>ENSG00000119508 hs-mir-94 283 290  
AAAGUGCUGACAGUGCAGAU&UAGUUCAUGAGGGUUUUCUAAGAAUUGCUAACAAAGCACUUUU  
((((((((.....((((..&.....)))))).....)))))))). -18.40

>ENSMUSG00000119508 hs-mir-94 1577 1584  
AAAGUGCUGACAGUGCAGAU&GUUCAUUGCAGUGACUUUUAAGGCAGUACUGUUUAGCACUUUG  
((((((((((((((((.....&.....)))))))).)))))))). -26.40

mir-94 ENSMUSG00000028341 2000 nt UTR 2 hits 290 1649

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

>ENSMUSG00000028341 hs-mir-94 290 297  
AAAGUGCUGACAGUGCAGAU&UAGUUCAUGAGGCUUUUCUAAGAAUUGCUGACAAAGCACUUUU  
((((((((.....((((..&.....)))))).....)))))))). -18.40

>ENSMUSG00000028341 hs-mir-94 1649 1656  
AAAGUGCUGACAGUGCAGAU&CUUCACUUGCAGUGACCUUUAAGGCAGCACUGUUUAGCACUUUG  
((((((((((((((((.....&.....)))))))).)))))))). -28.40

mir-94 ENSRNOG00000005964 3812 nt UTR 2 hits 289 1598

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

>ENSRNOG00000005964 hs-mir-94 289 296  
AAAGUGCUGACAGUGCAGAU&UAGUUCAUGAGGCUUUUCUAAGAAUUGCUGACGAAGCACUUUU  
((((((((.....((((..&.....)))))).....)))))))). -18.40

>ENSRNOG00000005964 hs-mir-94 1598 1605  
AAAGUGCUGACAGUGCAGAU&CUUUGUUUGCAGUGACCUUUAAGGCAGCACUGUUUAGCACUUUG  
((((((((((((((((.....&.....)))))))).)))))))). -28.40

miRNA: mir-94

Human predicted target: ENSG00000124209  
Mouse predicted target: ENSMUSG00000027519  
Rat predicted target: ENSRNOG00000005762  
Hs Gene description: RAS-RELATED PROTEIN RAB-22A (RAB-22).  
[Source:SWISSPROT;Acc:Q9UL26] NM\_020673

mir-94 ENSG00000124209 3680 nt UTR 3 hits 340 543 1061

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

>ENSG00000124209 hs-mir-94 340 347  
AAAGUGCUGACAGUGCAGAU&UCAAGAUUUUAUGUAACAUUUGUAAAGGGAAAAUUAGCACUUUU



((((((((((((..(((((((&.....)))))))).)...)))). -18.70  
>ENSG00000124209 hs-mir-94 543 550  
AAAGUGCUGACAGUGCAGAU&ACUGAUGGAAAUGAUUUCUUCUGCCAUCUCUAAAAGCACUUUU  
((((((((((..(((((((&.....)))))))).)...)))). -20.60  
>ENSG00000124209 hs-mir-94 1061 1068  
AAAGUGCUGACAGUGCAGAU&AGACUCAAGCACAUUGGUUAUUGUAUAAAAGGUUAUAGAGCACUUA  
.((((((((((..(((((((&.....)))))))).)...)))). -18.12  
mir-94 ENSMUSG00000027519 5553 nt UTR 3 hits 320 467 2104  
-----1-----1-----  
-----1-----  
-----  
-  
>ENSMUSG00000027519 hs-mir-94 320 327  
AAAGUGCUGACAGUGCAGAU&GGUCAGGAUUUCAUGUGUUUUUGUAAGGGAAAUGAGCACUUUC  
((((((((((..(((((((&.....)))))))).)...)))). -18.10  
>ENSMUSG00000027519 hs-mir-94 467 474  
AAAGUGCUGACAGUGCAGAU&AUGGGUGUUCUAGGACAGCUUCCGCCAUCUCUAAAAGCACUUUG  
((((((((((..(((((((&.....)))))))).)...)))). -16.70  
>ENSMUSG00000027519 hs-mir-94 2104 2111  
AAAGUGCUGACAGUGCAGAU&CUUCUUUUUAGAACGCAUAUGAAAAACAGUCAUAGCACUUUU  
((((((((((..(((((((&.....)))))))).)...)))). -14.90  
mir-94 ENSRNOG00000005762 2966 nt UTR 6 hits 309 432 900 1219 1366  
1885  
-----1-----1-----1-----1-----1-----  
-1-----  
>ENSRNOG00000005762 hs-mir-94 309 316  
AAAGUGCUGACAGUGCAGAU&UAAUCAGGAUUUCAUGUAUCAUUGUAAAAGGGAAACAAGCACUUUC  
((((((((((..((((((.....&.....)))))))).)...)))). -17.30  
>ENSRNOG00000005762 hs-mir-94 432 439  
AAAGUGCUGACAGUGCAGAU&UGGGAAGUGAUCACAAGUAGAUGGGUGGUCUCUAAAAGCACUUUG  
((((((((((..((((((.....&.....)))))))).)...)))). -17.30  
>ENSRNOG00000005762 hs-mir-94 900 907  
AAAGUGCUGACAGUGCAGAU&AGGAAACUCUGAAGCCCAUUUACCUUGUGUAUGGAGCACUUA  
.((((((((((..((((((.....&.....)))))))).)...)))). -17.70  
>ENSRNOG00000005762 hs-mir-94 1219 1226  
AAAGUGCUGACAGUGCAGAU&UAAUCAGGAUUUCAUGUAUCAUUGUAAAAGGGAAACAAGCACUUUC  
((((((((((..((((((.....&.....)))))))).)...)))). -17.30  
>ENSRNOG00000005762 hs-mir-94 1366 1373  
AAAGUGCUGACAGUGCAGAU&GUGGAUGUCCUGGGACAGUUCUCACCGUCUCUAAAAGCACUUUG  
((((((((((..((((((.....&.....)))))))).)...)))). -21.30  
>ENSRNOG00000005762 hs-mir-94 1885 1892  
AAAGUGCUGACAGUGCAGAU&UGAAGCCCAUUUACCUUGUGUAGAAGAAGCAUGGAGCACUUA  
.((((((((((..((((((.....&.....)))))))).)...)))). -18.80

miRNA: mir-94  
Human predicted target: ENSG00000161642  
Mouse predicted target: ENSMUSG00000000552

Rat predicted target: ENSRNOG00000017818

Hs Gene description: NM\_015481

mir-94 ENSG00000161642 3120 nt UTR 2 hits 499 588

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

>ENSG00000161642 hs-mir-94 499 506  
AAAGUGCUGACAGUGCAGAU&GGGAGGGGAGCAGGCGGGGAUCCUGGGUCCCUCAUAAGCACUUUG  
((((((((((.....((..&.....)))))).....))))). -16.81

>ENSG00000161642 hs-mir-94 588 595  
AAAGUGCUGACAGUGCAGAU&UAGCCCCAGGUCUAGCCGGGCCCAUUGCAGGGGGCAGCACUUG  
((((((((((.....((..&.....)))))).....))))). -23.50

mir-94 ENSMUSG00000000552 2000 nt UTR 2 hits 498 587

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

>ENSMUSG00000000552 hs-mir-94 498 505  
AAAGUGCUGACAGUGCAGAU&AGGAGGGGAACAGGCGGGGAUCCUGGGUCCCUAAGCACUUUG  
((((((((((.....((..&.....)))))).....))))). -17.70

>ENSMUSG00000000552 hs-mir-94 587 594  
AAAGUGCUGACAGUGCAGAU&CAGCCCCGGGUCCAGUCGGGCCCAUCGCAGGGGGCAGCACUUG  
((((((((((.....((..&.....)))))).....))))). -22.10

mir-94 ENSRNOG00000017818 2000 nt UTR 2 hits 497 586

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

>ENSRNOG00000017818 hs-mir-94 497 504  
AAAGUGCUGACAGUGCAGAU&GGGAGGGGAACAGGCGGGGAUCCUGGGUCCCUAAGCACUUUG  
((((((((((.....((..&.....)))))).....))))). -17.70

>ENSRNOG00000017818 hs-mir-94 586 593  
AAAGUGCUGACAGUGCAGAU&CAGCCCCAGGUCCAGCUGGGGCCCAUCGCAGGGGGCAGCACUUG  
((((((((((.....((..&.....)))))).....))))). -22.10

miRNA: mir-94

Human predicted target: ENSG00000177463

Mouse predicted target: ENSMUSG00000005893

Rat predicted target: ENSRNOG00000010536

Hs Gene description: ORPHAN NUCLEAR RECEPTOR TR4 (ORPHAN NUCLEAR RECEPTOR TAK1). [Source:SWISSPROT;Acc:P49116] NM\_003298

mir-94 ENSG00000177463 2329 nt UTR 3 hits 414 425 1839

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

>ENSG00000177463 hs-mir-94 414 421  
AAAGUGCUGACAGUGCAGAU&GAAUUAUAGAUACUAAUUAACCAGGGUAAUAAUUAUAGCACUUUC  
((((((((((.....&.....)))))).....))))). -15.90

>ENSG00000177463 hs-mir-94 425 432  
AAAGUGCUGACAGUGCAGAU&ACUAAUUAACCAGGGUAAUAAUUAUAGCACUUUCUAAAGCACUUA  
((((((((((.....((..&.....)))))).....))))). -21.50

>ENSG00000177463 hs-mir-94 1839 1846  
AAAGUGCUGACAGUGCAGAU&AGGCAGAACAGGAUGCUUGAUCCUGAAGGGUUAGCAGCACUUUA

((((((((((((((.....((...&.....)))))).....)))))))). -20.00  
mir-94 ENSMUSG00000005893 2326 nt UTR 3 hits 378 389 534

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

>ENSMUSG00000005893 hs-mir-94 378 385  
AAAGUGCUGACAGUGCAGAU&UGGAAUUAUAGCUACUAAUUAACCAGGGUAAUGUUAGCACUUUC  
((((((((((((((.....((...&.....)))))).....)))))))). -23.40

>ENSMUSG00000005893 hs-mir-94 389 396  
AAAGUGCUGACAGUGCAGAU&GCUACUAAUUAACCAGGGUAAUGUUAGCACUUUCUUAAGCACUUC  
((((((((((((((.....((...&.....)))))).....)))))))). -21.20

>ENSMUSG00000005893 hs-mir-94 534 541  
AAAGUGCUGACAGUGCAGAU&GUACAGGAGACAAUCGUUCACAUUUGUAAGAGGGGCAGCACUUC  
((((((((((((((.....((...&.....)))))).....)))))))). -21.30

mir-94 ENSRNOG00000010536 2545 nt UTR 3 hits 372 383 496

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

>ENSRNOG00000010536 hs-mir-94 372 379  
AAAGUGCUGACAGUGCAGAU&UGGAAUUAUAGCUACUAAUUAACCAGGGUAAUGUUAGCACUUUC  
((((((((((((((.....((...&.....)))))).....)))))))). -23.40

>ENSRNOG00000010536 hs-mir-94 383 390  
AAAGUGCUGACAGUGCAGAU&GCUACUAAUUAACCAGGGUAAUGUUAGCACUUUCUUAAGCACUUA  
((((((((((((((.....((...&.....)))))).....)))))))). -21.80

>ENSRNOG00000010536 hs-mir-94 496 503  
AAAGUGCUGACAGUGCAGAU&CAUCAGGAGACAAUCGUUCACAUUUUAUAAGCGGCAGCACUUC  
((((((((((((((.....((...&.....)))))).....)))))))). -17.70

miRNA: mir-94

Human predicted target: ENSG00000177888

Mouse predicted target: ENSMUSG00000033964

Rat predicted target: ENSRNOG00000011137

mir-94 ENSG00000177888 2021 nt UTR 2 hits 1436 1565

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

>ENSG00000177888 hs-mir-94 1436 1443  
AAAGUGCUGACAGUGCAGAU&CUAUUUCAGUUUUGUUUACACUCCUAAUUGCUUUUAGCACUUUU  
((((((((((((((.....((...&.....)))))).....)))))))). -17.60

>ENSG00000177888 hs-mir-94 1565 1572  
AAAGUGCUGACAGUGCAGAU&UUUAAUCAAUUAGUAAUGGCGGAAACUGUCGUGAAGCACUUA  
((((((((((((((.....((...&.....)))))).....)))))))). -25.00

mir-94 ENSMUSG00000033964 3770 nt UTR 3 hits 1525 1676 2895

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

>ENSMUSG00000033964 hs-mir-94 1525 1532  
AAAGUGCUGACAGUGCAGAU&UCUAAUUCAAUUGUUUACACUCCUAAUUGCUUUUAGCACUUUN  
((((((((((((((.....((...&.....)))))).....)))))))). -19.53

>ENSMUSG00000033964 hs-mir-94 1676 1683

```

AAAGUGCUGACAGUGCAGAU&GAAUAAAUGUAAUCAAAAAGGAGGAAACUGUUUAAGCACUUA
.((((((((((((((.....&.....)))))))).))))). -19.90
>ENSMUSG00000033964 hs-mir-94 2895 2902
AAAGUGCUGACAGUGCAGAU&AUUUUAUUGUUUUAAAUUAUUUUGGUAGAUACGUUAGCACUUA
.((((((((((((((.....&.....)))))))).))))). -19.90
mir-94 ENSRNOG00000011137 3689 nt UTR 4 hits 1181 1433 1570 2801
-----1-----1----1-----
-----1-----
>ENSRNOG00000011137 hs-mir-94 1181 1188
AAAGUGCUGACAGUGCAGAU&UUGAAUUCUUGAUGAAAGGAAAUAGGAAUUACAGGAGCACUUC
.((((((((((((((.....&.....)))))))).))))). -13.40
>ENSRNOG00000011137 hs-mir-94 1433 1440
AAAGUGCUGACAGUGCAGAU&CCUAUUUCAAUUUGUUUACACUGCUAAUUGCUUUUAGCACUUUU
((((((((((((((.....&.....)))))))).))))). -23.20
>ENSRNOG00000011137 hs-mir-94 1570 1577
AAAGUGCUGACAGUGCAGAU&GGAUAAAUGUAACCAGUAAGGAGGAAACUGUUGAAGCACUUA
.((((((((((((((.....&.....)))))))).))))). -19.90
>ENSRNOG00000011137 hs-mir-94 2801 2808
AAAGUGCUGACAGUGCAGAU&AUUUUAUUGUUUUAAAUUAUUUUGAUAGAUUUGUUAGCACUUA
.((((((((((((((.....&.....)))))))).))))). -21.20

```

miRNA: mir-96

Human predicted target: ENSG00000050030

Mouse predicted target: ENSMUSG00000046449

Rat predicted target: ENSRNOG00000002801

Hs Gene description: BA130N24.1 (NOVEL PROTEIN SIMILAR TO REV3L (REV3 (YEAST HOMOLOG)-LIKE, CATALYTIC SUBUNIT OF DNA POLYMERASE ZETA) (POLZ)) (FRAGMENT). [Source:SPTREMBL;Acc:Q9NST0]

```

mir-96 ENSG00000050030 7828 nt UTR 3 hits 204 422 5410
-----1-----1-----
-----1-----
-----1-----
>ENSG00000050030 hs-mir-96 204 211
UUUGGCACUAGCACAUUUUUGC&CACUAUUUACCCACAAGGAAAAAUUGAAAACAUUGUGCCAAAC
((((((((((((((.....&.....)))))))).))))). -15.40
>ENSG00000050030 hs-mir-96 422 429
UUUGGCACUAGCACAUUUUUGC&ACAAUUUACCAAAAUUAAGGAUACUGUUUGAAAUGUGCCAAAU
((((((((((((((.....&.....)))))))).))))). -17.40
>ENSG00000050030 hs-mir-96 5410 5417
UUUGGCACUAGCACAUUUUUGC&UUAAGACGUCUACAAAUCUUGUAUAUUUUUAAGUGUGCCAAU
.((((((((((((((.....&.....)))))))).))))). -15.15
mir-96 ENSMUSG00000046449 2000 nt UTR 2 hits 207 427
-----1-----1-----
-----1-----
>ENSMUSG00000046449 hs-mir-96 207 214

```

UUUGGCACUAGCACAUUUUUGC&ACUGUUUGCCCACAAGGAAAAAAAUGGAAAACUUUGUGCCAAAC  
(((((((((((((.....)))))))).))))). -19.70  
>ENSMUSG00000046449 hs-mir-96 427 434

UUUGGCACUAGCACAUUUUUGC&UACAGUUUACCAAACAAAGGAUAAUGUUUGAAUUGUGCCAAAU  
(((((((((((((.....)))))))).))))). -17.70  
mir-96 ENSRNOG00000002801 2000 nt UTR 2 hits 209 434

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

>ENSRNOG00000002801 hs-mir-96 209 216  
UUUGGCACUAGCACAUUUUUGC&ACUGUUUGCCCACAAGGAAAAAAAUGGAAAACAUUGUGCCAAAC  
(((((((((((((.....)))))))).))))). -19.14  
>ENSRNOG00000002801 hs-mir-96 434 441

UUUGGCACUAGCACAUUUUUGC&UACAGUUUACCAAACAAAGGAUAAUGUUUGAAUUGUGCCAAAU  
(((((((((((((.....)))))))).))))). -17.70

miRNA: mir-96

Human predicted target: ENSG00000101986

Mouse predicted target: ENSMUSG00000031378

Rat predicted target: ENSRNOG00000019117

Hs Gene description: ADRENOLEUKODYSTROPHY PROTEIN (ALDP).

[Source:SWISSPROT;Acc:P33897] NM\_000033

mir-96 ENSG00000101986 2000 nt UTR 2 hits 744 859

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

>ENSG00000101986 hs-mir-96 744 751  
UUUGGCACUAGCACAUUUUUGC&AGCCUCUGAGUCCCGUGGGGCCCGGCUCCACCGGUGCCAAAC  
(((((((((((((.....)))))))).))))). -19.80  
>ENSG00000101986 hs-mir-96 859 866

UUUGGCACUAGCACAUUUUUGC&CCAGCCAGGAGUGCGGACACCAUGUCCAGCUCAGUGCCAAAG  
(((((((((((((.....)))))))).))))). -23.10  
mir-96 ENSMUSG00000031378 3001 nt UTR 2 hits 735 833

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

>ENSMUSG00000031378 hs-mir-96 735 742  
UUUGGCACUAGCACAUUUUUGC&UGACUGGGUGGUCCCUUCAAUCUACCCAGUCUCUGGUGCCAAAC  
(((((((((((((.....&.....)))))))).))))). -20.60  
>ENSMUSG00000031378 hs-mir-96 833 840

UUUGGCACUAGCACAUUUUUGC&CUAGGCAGAAGUGAGGGCACCAUGUCCAGCUCAGUGCCAAAG  
(((((((((((((.....)))))))).))))). -26.57  
mir-96 ENSRNOG00000019117 2000 nt UTR 2 hits 742 840

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

>ENSRNOG00000019117 hs-mir-96 742 749  
UUUGGCACUAGCACAUUUUUGC&UGACUGGGUGGUCCCUUAAUUCUACCUAGUCUCUGGUGCCAAAC  
(((((((((((((.....&.....)))))))).))))). -20.60  
>ENSRNOG00000019117 hs-mir-96 840 847

UUUGGCACUAGCACAUUUUUGC&CUAGGCAGAAGUGAGGGCACCAUGUCCAGUUCAGUGCCAAAG

(((((((((((((.....)))))))))).....)))))))). -24.73

miRNA: mir-96

Human predicted target: ENSG00000130224  
Mouse predicted target: ENSMUSG00000031290  
Rat predicted target: ENSRNOG00000000619

Hs Gene description: NM\_032773

mir-96 ENSG00000130224 5197 nt UTR 3 hits 1139 2032 2674

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

>ENSG00000130224 hs-mir-96 1139 1146  
UUUGGCACUAGCACAUUUUUGC&GGCUUUUAUUAUAAAUCUUUUAGUAUUUAUAGGUUGGUGCCAAAA  
(((((((((((.....)))))))))).....)))))))). -22.92

>ENSG00000130224 hs-mir-96 2032 2039  
UUUGGCACUAGCACAUUUUUGC&UUUCAAGGGUAUUAUAAAAGGUAAAAACUAGUGUGCCAAAU  
(((((((((((.....)))))))))).....)))))))). -18.82

>ENSG00000130224 hs-mir-96 2674 2681  
UUUGGCACUAGCACAUUUUUGC&UCUGAGGUCCACAUCAUGGCAGUUCAUUUACUCUUGUGCCAAAU  
(((((((((((.....)))))))))).....)))))))). -17.53

mir-96 ENSMUSG00000031290 2000 nt UTR 2 hits 518 1391

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

>ENSMUSG00000031290 hs-mir-96 518 525  
UUUGGCACUAGCACAUUUUUGC&CCUGGCAUUUAUCAAUUCUUUUAGUAUUUAUCAGUUGGUGCCAAAA  
(((((((((((.....)))))))))).....)))))))). -21.82

>ENSMUSG00000031290 hs-mir-96 1391 1398  
UUUGGCACUAGCACAUUUUUGC&AUUUCAAAGGGCAUUUAUGAAGUGUAAAAUGUCAUGUGCCAAAU  
(((((((((((.....)))))))))).....)))))))). -20.10

mir-96 ENSRNOG00000000619 2000 nt UTR 2 hits 514 1384

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

>ENSRNOG00000000619 hs-mir-96 514 521  
UUUGGCACUAGCACAUUUUUGC&CUGGCAUUUAUCAAUUCUUUUAGUACUAUCAGUUGGUGCCAAAA  
(((((((((((.....&.....)))))))))).....)))))))). -23.30

>ENSRNOG00000000619 hs-mir-96 1384 1391  
UUUGGCACUAGCACAUUUUUGC&AUUUCAAAGGGCAUUUAUAAAUGUAAAAUGUCAUGUGCCAAAU  
(((((((((((.....)))))))))).....)))))))). -20.10

miRNA: mir-96

Human predicted target: ENSG00000132698  
Mouse predicted target: ENSMUSG00000008601  
Rat predicted target: ENSRNOG00000019632  
Rat predicted target: ENSRNOG00000019896  
Hs Gene description: RAS-RELATED PROTEIN RAB-25 (CATX-8).  
[Source:SWISSPROT;Acc:P57735] NM\_020387

mir-96 ENSG00000132698 2217 nt UTR 2 hits 388 537  
-----1-----1-----  
-----

>ENSG00000132698 hs-mir-96 388 395  
UUUGGCACUAGCACAUUUUUGC&GCCAGCUGCCUCUGGAGUUCUGUGGGUCUGGGGACAGUGCCAAGG  
((((((((((..((..((..(&.....))..))..))..))..))..))..))..))..))..)).. -18.90

>ENSG00000132698 hs-mir-96 537 544  
UUUGGCACUAGCACAUUUUUGC&CCAUCGGCGGGCACCAUCUGGUGCUGAGGGCCUGGUGCCAAC  
.((((((((((..((..((..(&.....))..))..))..))..))..))..))..))..)).. -21.80

mir-96 ENSMUSG00000008601 2214 nt UTR 2 hits 385 530  
-----1-----1-----  
-----

>ENSMUSG00000008601 hs-mir-96 385 392  
UUUGGCACUAGCACAUUUUUGC&CGCCUGCUUCUGGAGUUUCAUGGGGUCUGGGGACGGUGCCAAGG  
((((((((((..((..((..&.....))..))..))..))..))..))..))..))..)).. -18.20

>ENSMUSG00000008601 hs-mir-96 530 537  
UUUGGCACUAGCACAUUUUUGC&CCAUCUCCGGUCUCAUCUGGUACC UAAAGCCUGGUGCCAAGA  
((((((((((..((..((..(&.....))..))..))..))..))..))..))..))..)).. -20.80

mir-96 ENSRNOG00000019632 2000 nt UTR 2 hits 383 529  
-----1-----1-----  
-----

>ENSRNOG00000019632 hs-mir-96 383 390  
UUUGGCACUAGCACAUUUUUGC&AGGGCUUGCUCUGGAGUUCUCGGUCUGGGGACGGUGCCAAGG  
((((((((((..((..((..&.....))..))..))..))..))..))..))..))..)).. -18.20

>ENSRNOG00000019632 hs-mir-96 529 536  
UUUGGCACUAGCACAUUUUUGC&CCAUCUCCAGCACCAUCUGGUACCCAGUGCCCUGGUGCCAAGA  
((((((((((..((..((..(&.....))..))..))..))..))..))..))..))..)).. -23.00

mir-96 ENSRNOG00000019896 2000 nt UTR 2 hits 382 528  
-----1-----1-----  
-----

>ENSRNOG00000019896 hs-mir-96 382 389  
UUUGGCACUAGCACAUUUUUGC&AGGGCUUGCUCUGGAGUUCUCGGUCUGGGGACGGUGCCAAGG  
((((((((((..((..((..&.....))..))..))..))..))..))..))..))..)).. -18.20

>ENSRNOG00000019896 hs-mir-96 528 535  
UUUGGCACUAGCACAUUUUUGC&CCAUCUCCAGCACCAUCUGGUACCCAGUGCCCUGGUGCCAAGA  
((((((((((..((..((..(&.....))..))..))..))..))..))..))..))..)).. -23.00

miRNA: mir-96  
Human predicted target: ENSG00000136295  
Mouse predicted target: ENSMUSG00000036565  
Rat predicted target: ENSRNOG0000001231  
Rat predicted target: ENSRNOG0000001233

mir-96 ENSG00000136295 5061 nt UTR 2 hits 736 1437  
-----1-----1-----  
-----

>ENSG00000136295 hs-mir-96 736 743

UUUGGCACUAGCACAUUUUUGC&CGCUCACCCGCCACCCAGUGCUGGCCGCCUUCUUGGUGCCAAAC  
((((((((((.....&.....))))))))). -18.70

>ENSG00000136295 hs-mir-96 1437 1444

UUUGGCACUAGCACAUUUUUGC&GGCCAGCCAGCCCAGCCCUCGAGGCUCGAUGCCUGUGCCAAAGG  
((((((((((.....&.....)))))))). -20.40

mir-96 ENSMUSG00000036565 2000 nt UTR 3 hits 40 688 743

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

>ENSMUSG00000036565 hs-mir-96 40 47

UUUGGCACUAGCACAUUUUUGC&ACUAGACCGCACACCGGCCAGCCAUCUGCCCCACGUGCCAAU  
((((((((((.....&.....)))))))). -15.80

>ENSMUSG00000036565 hs-mir-96 688 695

UUUGGCACUAGCACAUUUUUGC&CCCUCAGUGCCAGCCAGCCCUCUCCCAGACAGCAGGUGCCAAAGC  
((((((((((.....&.....)))))))). -20.90

>ENSMUSG00000036565 hs-mir-96 743 750

UUUGGCACUAGCACAUUUUUGC&CACUCCCUGGCCUCUCAGUGCUGGCCACCUUCUUGGUGCCAAAC  
((((((((((.....&.....))))))))). -18.70

mir-96 ENSRNOG00000001231 2000 nt UTR 2 hits 40 740

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

>ENSRNOG00000001231 hs-mir-96 40 47

UUUGGCACUAGCACAUUUUUGC&ACUAGACCGCGCACCGGCCAGCCAUCUGCCCCACGUGCCAAU  
((((((((((.....&.....)))))))). -15.80

>ENSRNOG00000001231 hs-mir-96 740 747

UUUGGCACUAGCACAUUUUUGC&CCCUCUCCCUGGCCUCUCAGUGCUGGCCACCUUCUUGGUGCCAAAC  
((((((((((.....&.....))))))))). -18.70

mir-96 ENSRNOG00000001233 2000 nt UTR 2 hits 40 740

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

>ENSRNOG00000001233 hs-mir-96 40 47

UUUGGCACUAGCACAUUUUUGC&ACUAGACCGCGCACCGGCCAGCCAUCUGCCCCACGUGCCAAU  
((((((((((.....&.....)))))))). -15.80

>ENSRNOG00000001233 hs-mir-96 740 747

UUUGGCACUAGCACAUUUUUGC&CCCUCUCCCUGGCCUCUCAGUGCUGGCCACCUUCUUGGUGCCAAAC  
((((((((((.....&.....))))))))). -18.70

miRNA: mir-96

Human predicted target: ENSG00000136535

Mouse predicted target: ENSMUSG00000035033

Rat predicted target: ENSRNOG00000005049

Hs Gene description: T-BRAIN-1 PROTEIN (T-BOX BRAIN PROTEIN 1) (TBR-1)  
(TES-56). [Source:SWISSPROT;Acc:Q16650] NM\_006593

mir-96 ENSG00000136535 2835 nt UTR 2 hits 980 1008

-----11-----  
-----

>ENSG00000136535 hs-mir-96 980 987

UUUGGCACUAGCACAUUUUUGC&GCAAUAUUAUUUUGCCUUAUUUGUUUUUCCCAAAGUGCCAAAU



(((((((((((((.....(((&)))).....))))))))). -17.07  
>ENSG00000136535 hs-mir-96 1008 1015

UUUGGCACUAGCACAUUUUUGC&CCCCAAAGUGCCAAAUCCAUAUACUGGUCUGUGCAGGUGCCAAAU  
(((((((((((((.....&.....))))))))). -26.00  
mir-96 ENSMUSG00000035033 3673 nt UTR 2 hits 1010 1038

-----11-----  
-----

>ENSMUSG00000035033 hs-mir-96 1010 1017  
UUUGGCACUAGCACAUUUUUGC&GCAAUAUUAUUUUGCCUUAUUUGUUUUUCCCCAAAGUGCCAAAU

(((((((((((((.....(((&)))).....))))))))). -17.07  
>ENSMUSG00000035033 hs-mir-96 1038 1045

UUUGGCACUAGCACAUUUUUGC&CCCCAAAGUGCCAAAUCCAUAUACUGGUCUGUGCAGGUGCCAAAU  
(((((((((((((.....&.....))))))))). -26.00  
mir-96 ENSRNOG00000005049 3624 nt UTR 2 hits 962 990

-----11-----  
-----

>ENSRNOG00000005049 hs-mir-96 962 969  
UUUGGCACUAGCACAUUUUUGC&GCAAUAUUAUUUUGCCUUAUUUGUUUUUCCCCAAAGUGCCAAAU

(((((((((((((.....(((&)))).....))))))))). -17.07  
>ENSRNOG00000005049 hs-mir-96 990 997

UUUGGCACUAGCACAUUUUUGC&CCCCAAAGUGCCAAAUCCACUACUGGUCUGUGCAGGUGCCAAAU  
(((((((((((((.....&.....))))))))). -26.00

miRNA: mir-96

Human predicted target: ENSG00000139910  
Mouse predicted target: ENSMUSG00000021047  
Rat predicted target: ENSRNOG00000004331  
Hs Gene description: ONCONEURAL VENTRAL ANTIGEN-1 (NOVA-1) (PARANEOPLASTIC  
RI ANTIGEN) (VENTRAL NEURON-SPECIFIC PROTEIN 1).  
[Source:SWISSPROT;Acc:P51513]

mir-96 ENSG00000139910 2000 nt UTR 2 hits 858 1277  
-----1-----1-----  
-----

>ENSG00000139910 hs-mir-96 858 865  
UUUGGCACUAGCACAUUUUUGC&ACAGUGUAUUGGAAAUUUUAUAAACAAAAGUGAAAGUGCCAAC

.(((((((((((((.....(((&.....))))))))). -22.40  
>ENSG00000139910 hs-mir-96 1277 1284

UUUGGCACUAGCACAUUUUUGC&CCAACAACUGUCACCCUCUUCUGUACCUCUCCUGAGUGCCAAC  
.(((((((((((((.....&.....))))))))). -16.60  
mir-96 ENSMUSG00000021047 3999 nt UTR 2 hits 858 1276

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

>ENSMUSG00000021047 hs-mir-96 858 865  
UUUGGCACUAGCACAUUUUUGC&ACAGUGUAUUGGAAAUUUUAUAAACAAAAGUGAAAGUGCCAAC

.(((((((((((((.....(((&.....))))))))). -22.40  
>ENSMUSG00000021047 hs-mir-96 1276 1283

UUUGGCACUAGCACAUUUUUGC&CCAACAACUGUCACCCUCUUCUGUACCUCUCCUGAGUGCCAAC  
.((((((((((.....&.....))))))))). -16.60  
mir-96 ENSRNOG0000004331 7451 nt UTR 2 hits 857 1275

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

---  
>ENSRNOG0000004331 hs-mir-96 857 864  
UUUGGCACUAGCACAUUUUUGC&ACAGUGUAUUGGAAUUUUUAUAAACAAACGUGAAAGUGCCAAC  
.((((((((((.....&.....))))))))). -21.30  
>ENSRNOG0000004331 hs-mir-96 1275 1282  
UUUGGCACUAGCACAUUUUUGC&CCAACAACUGUCACCCUCUUCUGUACCUCUCCUGAGUGCCAAC  
.((((((((((.....&.....))))))))). -16.60

miRNA: mir-96  
Human predicted target: ENSG00000143028  
Mouse predicted target: ENSMUSG00000027887  
Rat predicted target: ENSRNOG00000019780

mir-96 ENSG00000143028 2000 nt UTR 2 hits 1457 1500  
-----1-----

-----  
>ENSG00000143028 hs-mir-96 1457 1464  
UUUGGCACUAGCACAUUUUUGC&AAGAAGAGGGAAGAAUCCGACCACUUUCCAUCCAGUGCCAAC  
.((((((((((.....&.....))))))))). -16.90  
>ENSG00000143028 hs-mir-96 1500 1507  
UUUGGCACUAGCACAUUUUUGC&UGGCCACUAAGCAUCCUAAAGGUGAAUGUGCCCUGUGCCAAC  
.((((((((((.....&.....))))))))). -25.90  
mir-96 ENSMUSG00000027887 4270 nt UTR 2 hits 1182 1923

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

-----  
>ENSMUSG00000027887 hs-mir-96 1182 1189  
UUUGGCACUAGCACAUUUUUGC&UGUCCCACUUAGCACCCCAAAGAUGAAUGUACCUUGUGCCAAC  
.((((((((((.....&.....))))))))). -21.50  
>ENSMUSG00000027887 hs-mir-96 1923 1930  
UUUGGCACUAGCACAUUUUUGC&CACCUCAUUAUCCAGGGGGCUGGGCAGCAGUAAGUGCCAAGG  
((((((((((.....&.....))))))))). -18.90  
mir-96 ENSRNOG00000019780 4936 nt UTR 4 hits 1096 1841 3881 4626

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

-----1-----1-----  
>ENSRNOG00000019780 hs-mir-96 1096 1103  
UUUGGCACUAGCACAUUUUUGC&CAAUAUAGUGGCAAUCCCAAAGAUGAAUGUACCUUGUGCCAAC  
.((((((((((.....&.....))))))))). -21.50  
>ENSRNOG00000019780 hs-mir-96 1841 1848  
UUUGGCACUAGCACAUUUUUGC&UCACCUCAUUAUCCAGGGGGCUGGGCAGCCUGCGUGCCAAGG

((((((((((..(((.....(((&.....))))))..)))))))). -18.60  
>ENSRNOG00000019780 hs-mir-96 3881 3888  
UUUGGCACUAGCACAUUUUUGC&CGGGCCCACCUAAAUCCCAAAGAUGAAUGUACCUUGUGCCAAC  
((((((((((..(((((((((&.....))))))..))))..)))))))). -21.50  
>ENSRNOG00000019780 hs-mir-96 4626 4633  
UUUGGCACUAGCACAUUUUUGC&UCACCUCAUUACCUCAGGGGGCUGGGCAGCCUGCGUGCCAAGG  
((((((((((..(((.....(((&.....))))))..)))))))). -18.60

miRNA: mir-96

Human predicted target: ENSG00000143179

Mouse predicted target: ENSMUSG00000026558

Rat predicted target: ENSRNOG00000003917

Hs Gene description: URIDINE-CYTIDINE KINASE 2 (EC 2.7.1.48) (UCK 2)  
(URIDINE MONOPHOSPHOKINASE 2) (CYTIDINE MONOPHOSPHOKINASE 2).

[Source:SWISSPROT;Acc:Q9BZX2] NM\_012474

mir-96 ENSG00000143179 2283 nt UTR 2 hits 208 2086

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

>ENSG00000143179 hs-mir-96 208 215  
UUUGGCACUAGCACAUUUUUGC&AACAGAACUUGACCCUGAGCUUAAAUAACAAAACUGUGCCAAC  
((((((((((.....(((..(((&.....))))))..)))))))). -15.96

>ENSG00000143179 hs-mir-96 2086 2093  
UUUGGCACUAGCACAUUUUUGC&UGGGCAGCAUGCUCACUUUACUUGAAGCUCCAGGUGCCAAC  
(((((((((((((.....(((&..))))))..)))))))). -18.89  
mir-96 ENSMUSG00000026558 2294 nt UTR 2 hits 215 2002

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

>ENSMUSG00000026558 hs-mir-96 215 222  
UUUGGCACUAGCACAUUUUUGC&UGAUGGAACUUGACCCUGAGCUUAAAGUGACAAACUGUGCCAAC  
((((((((((.....(((..(((&.....))))))..)))))))). -19.50

>ENSMUSG00000026558 hs-mir-96 2002 2009  
UUUGGCACUAGCACAUUUUUGC&UGGGUAGCACGCUCACUUUACUUGAAGCUUCCAGGUGCCAAC  
(((((((((((((.....&.....))))))..)))))))). -19.80  
mir-96 ENSRNOG00000003917 2000 nt UTR 2 hits 216 1911

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

>ENSRNOG00000003917 hs-mir-96 216 223  
UUUGGCACUAGCACAUUUUUGC&UGACCGAACUUGACCCUGAGCUUAAAGUGACAAACUGUGCCAAC  
((((((((((.....(((..(((&.....))))))..)))))))). -19.50

>ENSRNOG00000003917 hs-mir-96 1911 1918  
UUUGGCACUAGCACAUUUUUGC&UGGGUAGCACUCUCAACUUUACUUGAAGCUUCCAGGUGCCAAC  
(((((((((((((.....&.....))))))..)))))))). -19.80

miRNA: mir-96

Human predicted target: ENSG00000169992

Mouse predicted target: ENSMUSG00000019462

Rat predicted target: ENSRNOG00000015430  
Hs Gene description: NEUROLIGIN 2. [Source:SPTREMBL;Acc:Q8NFZ4]  
mir-96 ENSG00000169992 2212 nt UTR 3 hits 1066 1111 1639  
-----1-1-----1-----  
-----  
>ENSG00000169992 hs-mir-96 1066 1073  
UUUGGCACUAGCACAUUUUUGC&AGCCUUUUC CCCAGGCCUCAGAGCAUUGCUCAUCCGUGCCAAAC  
(((((((((((((...(((.&.....))))))....)))).....))))). -19.50  
>ENSG00000169992 hs-mir-96 1111 1118  
UUUGGCACUAGCACAUUUUUGC&GGGUAGGUGGAUUUGAGCGGAAAGACUCCCAAAAUGUGCCAAGA  
(((((((((((((...(((.&.....))..))..))....)))).....))))). -20.21  
>ENSG00000169992 hs-mir-96 1639 1646  
UUUGGCACUAGCACAUUUUUGC&AGAGUCCUCAUCUGCUGGCAUUUUGUGGGGUGUUAGUGCCAAAC  
(((((((((((((...(((.&.....)))).....)))).....))))). -27.44  
mir-96 ENSMUSG00000019462 2000 nt UTR 3 hits 1242 1281 1821  
-----1-1-----1-----  
-----  
>ENSMUSG00000019462 hs-mir-96 1242 1249  
UUUGGCACUAGCACAUUUUUGC&GCCUUUUC CUCAGUCCUUGAGAUCAUUGCUCAUCCGUGCCAAAC  
(((((((((((((...(((.&.....))))))....)))).....))))). -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  
-----1-----1-----  
-----  
>ENSRNOG00000015430 hs-mir-96 1226 1233  
UUUGGCACUAGCACAUUUUUGC&GCCUUUUC CUCAGACCUUGAGAUCAUUGCUCAUCCGUGCCAAAC  
(((((((((((((...(((.&.....))))))....)))).....))))). -17.80  
>ENSRNOG00000015430 hs-mir-96 1799 1806  
UUUGGCACUAGCACAUUUUUGC&UCUCCAUGUGUUGUUUGGCUUUCUGAGGGAUGUUAGUGCCAAAC  
(((((((((((((...(((.&.....)))).....)))).....))))). -24.70

miRNA: mir-96  
Human predicted target: ENSG00000174233  
Mouse predicted target: ENSMUSG00000022994  
Rat predicted target: ENSRNOG00000011587  
Hs Gene description: ADENYLATE CYCLASE, TYPE VI (EC 4.6.1.1) (ATP  
PYROPHOSPHATE-LYASE) (CA(2+)-INHIBITABLE ADENYLYL CYCLASE).  
[Source:SWISSPROT;Acc:O43306] NM\_020983  
mir-96 ENSG00000174233 4393 nt UTR 3 hits 606 795 1266  
-----1-----1-----1-----  
-----  
-----

>ENSG00000174233 hs-mir-96 606 613  
UUUGGCACUAGCACAUUUUUGC&CCAGCUUUGGCCAUUUUCAGGAGAAUGUUUCAUGUGCCAAAU  
((((((((.....(((((((.....&.....))))))))).....)))))))). -21.60  
>ENSG00000174233 hs-mir-96 795 802  
UUUGGCACUAGCACAUUUUUGC&GGAUGUCAGGUCAGGAGCUGGAAGUUCACCUGCAGGUGCCAAAG  
((((((((((.....(((((((.....&.....))))))))).....)))))))). -22.20  
>ENSG00000174233 hs-mir-96 1266 1273  
UUUGGCACUAGCACAUUUUUGC&GUGUGGUAGCAAAGGAGGGAGAGGUCCUUUUUGUGCCAAAU  
((((((((((.....(((((((.....&.....))))))))).....)))))))). -19.30  
mir-96 ENSMUSG00000022994 4232 nt UTR 4 hits 1060 1156 2654 2750

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

>ENSMUSG00000022994 hs-mir-96 1060 1067  
UUUGGCACUAGCACAUUUUUGC&GGCCUCUGUCUUCUGGCGUUAAGGCCAAGUUUCCUGUGCCAAGG  
((((((((((.....(((((((.....&.....))))))))).....)))))))). -17.00  
>ENSMUSG00000022994 hs-mir-96 1156 1163  
UUUGGCACUAGCACAUUUUUGC&AAAUGAUAACGGUCUGGGGAGAGGAGUCCUUUUUUGUGCCAAAU  
((((((((((.....(((((((.....&.....))))))))).....)))))))). -17.90  
>ENSMUSG00000022994 hs-mir-96 2654 2661  
UUUGGCACUAGCACAUUUUUGC&GGCCUCUGUCUUCUGGCGUUAAGGCCAAGUUUCCUGUGCCAAGG  
((((((((((.....(((((((.....&.....))))))))).....)))))))). -17.00  
>ENSMUSG00000022994 hs-mir-96 2750 2757  
UUUGGCACUAGCACAUUUUUGC&AAAUGAUAACGGUCUGGGGAGAGGAGUCCUUUUUUGUGCCAAAU  
((((((((((.....(((((((.....&.....))))))))).....)))))))). -17.90  
mir-96 ENSRNOG00000011587 3925 nt UTR 2 hits 955 2974

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

>ENSRNOG00000011587 hs-mir-96 955 962  
UUUGGCACUAGCACAUUUUUGC&AAAUGAGAGUGGUCUGGGGAGAGGAGUCCUUUUUUGUGCCAAAU  
((((((((((.....(((((((.....&.....))))))))).....)))))))). -18.60  
>ENSRNOG00000011587 hs-mir-96 2974 2981  
UUUGGCACUAGCACAUUUUUGC&AAAUGAGAGUGGUCUGGGGAGAGGAGUCCUUUUUUGUGCCAAAU  
((((((((((.....(((((((.....&.....))))))))).....)))))))). -18.60

miRNA: mir-98

Human predicted target: ENSG00000022567  
Mouse predicted target: ENSMUSG00000036649  
Rat predicted target: ENSRNOG00000007818  
mir-98 ENSG00000022567 7016 nt UTR 2 hits 1056 5277

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

>ENSG00000022567 hs-mir-98 1056 1063  
UGAGGUAGUAAGUUGUAUUGUU&CCAGCGGGCCCUGCCUCCCAAGUCCCGCCGCAAGGCUACCUCGG

((((((((((...(((.....&.....)))))))). -20.60  
>ENSG00000022567 hs-mir-98 5277 5284  
UGAGGUAGUAAGUUGUAUUGUU&GCCUGUUCUGGUGGAGCCGGGUGGGGCCCGCGGUCUACCUCU  
((((((((((...(((.....&.....)))))))). -17.60  
mir-98 ENSMUSG00000036649 2000 nt UTR 2 hits 896 952

-----1-1-----  
-----  
>ENSMUSG00000036649 hs-mir-98 896 903  
UGAGGUAGUAAGUUGUAUUGUU&CAGGUGAGCAUCGGCUCGAGUCCUGCUGCACGGCUACCUCGA  
((((((((((...(((.....&.....)))))))). -20.71  
>ENSMUSG00000036649 hs-mir-98 952 959  
UGAGGUAGUAAGUUGUAUUGUU&GUGGCAUCAGAGCAGGGCGCGGGAAGGGGCCGAGCCUACCUC  
((((((((((...(((.....&.....)))))))). -15.77  
mir-98 ENSRNOG00000007818 2000 nt UTR 2 hits 892 948

-----1-1-----  
-----  
>ENSRNOG00000007818 hs-mir-98 892 899  
UGAGGUAGUAAGUUGUAUUGUU&CCAGGUGAGCAUUGGCUCGCAAGGCUACCUCGA  
((((((((((...(((.....&.....)))))))). -21.80  
>ENSRNOG00000007818 hs-mir-98 948 955  
UGAGGUAGUAAGUUGUAUUGUU&UGGCAUCAGAGCAGGGCACGUGAAGGUGCCGGGGCCUACCUC  
((((((((((...(((.....&.....)))))))). -16.90

miRNA: mir-98  
Human predicted target: ENSG00000082153  
Mouse predicted target: ENSMUSG00000026033  
Rat predicted target: ENSRNOG00000013977  
Hs Gene description: BASIC LEUCINE ZIPPER AND W2 DOMAINS 1; BASIC LEUCINE-  
ZIPPER PROTEIN BZAP45. [Source:RefSeq;Acc:NM\_014670]  
mir-98 ENSG00000082153 2000 nt UTR 2 hits 84 251

---1-----1-----  
-----  
>ENSG00000082153 hs-mir-98 84 91  
UGAGGUAGUAAGUUGUAUUGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUACAUCUCCUACCUC  
((((((((((...(((.....&.....)))))))). -21.00  
>ENSG00000082153 hs-mir-98 251 258  
UGAGGUAGUAAGUUGUAUUGUU&GAAUCUAAUGUUGCAUUAUGUCUUUUCAGUUAUCUUCUACCUC  
((((((((((...(((.....&.....)))))))). -18.60  
mir-98 ENSMUSG00000026033 2413 nt UTR 2 hits 84 252

---1-----1-----  
-----  
>ENSMUSG00000026033 hs-mir-98 84 91  
UGAGGUAGUAAGUUGUAUUGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUACAUCUCCUACCUC  
((((((((((...(((.....&.....)))))))). -21.00  
>ENSMUSG00000026033 hs-mir-98 252 259  
UGAGGUAGUAAGUUGUAUUGUU&UUGAAUCUGAUGUUGCAUUGGUUUUCAGUUAACCUUCUACCUC  
((((((((((...(((.....&.....)))))))). -18.00

mir-98 ENSRNOG00000013977 2000 nt UTR 2 hits 760 920  
-----1-----1-----  
-----  
>ENSRNOG00000013977 hs-mir-98 760 767  
UGAGGUAGUAAGUUGUAUUGUU&UGUCAUGUCUCAUGUGUCCUGGUUCUACAUCUCCUACCUC  
.(((((((.((((.....&.....))))).))))). -21.00  
>ENSRNOG00000013977 hs-mir-98 920 927  
UGAGGUAGUAAGUUGUAUUGUU&ACGGAAGCUGGCGCUGCACUGGUCUUCAGUCCCUCUACCUC  
.(((((((.((((.&.....))))).))))). -17.73

miRNA: mir-98

Human predicted target: ENSG00000100823

Mouse predicted target: ENSMUSG00000035960

Rat predicted target: ENSRNOG00000009663

Hs Gene description: DNA-(APURINIC OR APYRIMIDINIC SITE) LYASE (EC 4.2.99.18) (AP ENDONUCLEASE 1) (APEX NUCLEASE) (APEN) (REF-1 PROTEIN).

[Source:SWISSPROT;Acc:P27695] NM\_080649

mir-98 ENSG00000100823 2259 nt UTR 2 hits 911 1250  
-----1-----1-----  
-----  
>ENSG00000100823 hs-mir-98 911 918  
UGAGGUAGUAAGUUGUAUUGUU&GCCCCUCCAAACCUAAGUGAGGGCCUGGUUCCUCCUACCUCU  
.(((((((.((((.....&.....))))).))))). -17.40  
>ENSG00000100823 hs-mir-98 1250 1257  
UGAGGUAGUAAGUUGUAUUGUU&GAAGAAAAGAAAGAUGGGGUUAAUGUUGGUCUCCACUACCUC  
.(((((((.((((.....&.....))))).))))). -16.90  
mir-98 ENSMUSG00000035960 2165 nt UTR 2 hits 308 884  
-----1-----1-----  
-----

>ENSMUSG00000035960 hs-mir-98 308 315  
UGAGGUAGUAAGUUGUAUUGUU&CAGAUGAGUCCCUAACCUCUCCCAAGACAGUGACCCUACCUCAG  
(((((((.((((.....&.....))))).))))). -20.20  
>ENSMUSG00000035960 hs-mir-98 884 891  
UGAGGUAGUAAGUUGUAUUGUU&UCCAAACAUAAGGAAGGAAGGGACUGCUUCCUCCUACCUCU  
.(((((((.((((.....&.....))))).))))). -18.50  
mir-98 ENSRNOG00000009663 2102 nt UTR 2 hits 246 734  
-----1-----1-----  
-----

>ENSRNOG00000009663 hs-mir-98 246 253  
UGAGGUAGUAAGUUGUAUUGUU&CAGAUGAAUCCUGACCUCUCCCAAGACAGUGACCCUACCUCAG  
(((((((.((((.....&.....))))).))))). -20.20  
>ENSRNOG00000009663 hs-mir-98 734 741  
UGAGGUAGUAAGUUGUAUUGUU&ACCCUCCAAACCUAAGUCAGGGGCUGGUUCCUCCUACCUCU  
.(((((((.((((.....&.....))))).))))). -17.40

miRNA: mir-98

Human predicted target: ENSG00000119906  
Mouse predicted target: ENSMUSG00000036097  
Rat predicted target: ENSRNOG00000014489  
Hs Gene description: C10ORF6. [Source:RefSeq;Acc:NM\_018121] NM\_144592  
mir-98 ENSG00000119906 2862 nt UTR 2 hits 1326 1560

-----1-----1-----  
-----  
>ENSG00000119906 hs-mir-98 1326 1333  
UGAGGUAGUAAGUUGUAUUGUU&UUGCUGUUUGAGAGGCAAGAAAUAUUUAACUUCUACCUCU  
.(((((((((((((&.....)))))).)))))). -24.30  
>ENSG00000119906 hs-mir-98 1560 1567  
UGAGGUAGUAAGUUGUAUUGUU&UGUUGUUUACUGGUAAGAAUAUUUAUCUUGAUACUACCUCU  
.(((((((((((((&.....)))))).)))))). -19.10  
mir-98 ENSMUSG00000036097 4668 nt UTR 2 hits 1314 1542  
-----1-----1-----

-----  
>ENSMUSG00000036097 hs-mir-98 1314 1321  
UGAGGUAGUAAGUUGUAUUGUU&GAGAGGAGAAAUAAGUUCUGAGAGCUAACUCUUCUACCUCU  
.(((((((((((((&.....)))))).)))))). -18.20  
>ENSMUSG00000036097 hs-mir-98 1542 1549  
UGAGGUAGUAAGUUGUAUUGUU&GUGUUGAGUUUACUGGUAAGAAUAUUGUCUUGAUGCUACCUCU  
.(((((((((((((&.....)))))).)))))). -20.10  
mir-98 ENSRNOG00000014489 4549 nt UTR 2 hits 1194 1424  
-----1-----1-----

-----  
>ENSRNOG00000014489 hs-mir-98 1194 1201  
UGAGGUAGUAAGUUGUAUUGUU&UUGAGAGGAGAAAUAAGUUCUGAGAGCUAACUCUUCUACCUCU  
.(((((((((((((&.....)))))).)))))). -20.80  
>ENSRNOG00000014489 hs-mir-98 1424 1431  
UGAGGUAGUAAGUUGUAUUGUU&GUGUUGAGUUUACUGGUAAGAAUAUUGUCUUGAUGCUACCUCU  
.(((((((((((((&.....)))))).)))))). -20.10

miRNA: mir-98

Human predicted target: ENSG00000131242  
Mouse predicted target: ENSMUSG00000017639  
Rat predicted target: ENSRNOG00000014135  
Hs Gene description: RAB11-FAMILY INTERACTING PROTEIN 4.  
[Source:RefSeq;Acc:NM\_032932]

mir-98 ENSG00000131242 8479 nt UTR 2 hits 344 704  
-----1-----1-----  
-----  
>ENSG00000131242 hs-mir-98 344 351



UGAGGUAGUAAGUUGUAUUGUU&GGAAGCUCGUGUUUCCGGUACUGGGUAAAAUGAUUCUACCUCU  
.(((((((...(((((((...&.....)))))).....))))). -17.91  
>ENSG00000131242 hs-mir-98 704 711

UGAGGUAGUAAGUUGUAUUGUU&CCUAUAGAGUUCGUGCACUCCCCCAUCCAUGCUACCUACCUCC  
.(((((((...(((((((...&.....)))))).....))))). -18.01  
mir-98 ENSMUSG00000017639 2000 nt UTR 2 hits 311 636

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

>ENSMUSG00000017639 hs-mir-98 311 318  
UGAGGUAGUAAGUUGUAUUGUU&UGGAAGCUUGCAUUUAGGAUACUGAUGAAAUGAUUCUACCUCU  
.(((((((...(((((((...&.....)))))).....))))). -17.60  
>ENSMUSG00000017639 hs-mir-98 636 643

UGAGGUAGUAAGUUGUAUUGUU&UCGUAGUUUUCUGAGCCCCUCCAGUCUUGCUUGCCUACCUCC  
.(((((((...(((((((...&.....)))))).....))))). -21.70  
mir-98 ENSRNOG00000014135 2000 nt UTR 2 hits 331 660

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

>ENSRNOG00000014135 hs-mir-98 331 338  
UGAGGUAGUAAGUUGUAUUGUU&UGGAAGCUUGCAUUUCAGAUACUGAUGACAUGAUUCUACCUCU  
.(((((((...(((((((...&.....)))))).....))))). -17.60  
>ENSRNOG00000014135 hs-mir-98 660 667

UGAGGUAGUAAGUUGUAUUGUU&AGUUUUCUGUGCCCUUCCAGCCAGUCUUGCUUGCCUACCUCC  
.(((((((...(((((((...&.....)))))).....))))). -21.70

miRNA: mir-98

Human predicted target: ENSG00000135912  
Mouse predicted target: ENSMUSG00000033257  
Rat predicted target: ENSRNOG00000017129  
Hs Gene description: NM\_014640

mir-98 ENSG00000135912 2000 nt UTR 2 hits 45 983  
-1-----1-----  
-----

>ENSG00000135912 hs-mir-98 45 52  
UGAGGUAGUAAGUUGUAUUGUU&CUCCAAAAGCCUCUGCCCAGGAGCAUGGGCAUCAGCUACCUCAC  
(((((((...(((((((...&.....)))))).....))))). -22.40  
>ENSG00000135912 hs-mir-98 983 990

UGAGGUAGUAAGUUGUAUUGUU&CAAACCUCAGACUAAACUCUUGUACUGAACUGAUUCUACCUCC  
.(((((((...(((((((...&.....)))))).....))))). -19.40  
mir-98 ENSMUSG00000033257 2000 nt UTR 3 hits 617 1137 1899

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

>ENSMUSG00000033257 hs-mir-98 617 624  
UGAGGUAGUAAGUUGUAUUGUU&UUUGUUAUAGUGGUCUCUGCCAACAUCGCUCAUGACUACCUCAA  
(((((((...(((((((...&.....)))))).....))))). -22.40  
>ENSMUSG00000033257 hs-mir-98 1137 1144

UGAGGUAGUAAGUUGUAUUGUU&UGAGCUCGUGACUGGUCCUGCACAGGAGCACUCAGCUACCUCAA  
(((((((...(((((((...&.....)))))).....))))). -22.10

>ENSMUSG00000033257 hs-mir-98 1899 1906  
UGAGGUAGUAAGUUGUAUUGUU&GCUUCUCAUCUCUGACAGCUAAUACUCAGUGGCAUCUACCUC  
(((((((((((((&.....)))))))).))))). -17.80  
mir-98 ENSRNOG00000017129 2000 nt UTR 2 hits 883 1581  
-----1-----1-----  
-----

>ENSRNOG00000017129 hs-mir-98 883 890  
UGAGGUAGUAAGUUGUAUUGUU&UGAGCCCAUGACUGGUCCUACACAGGAGCACUCAGCUACCUCAA  
(((((((((((((&.....)))))))).))))). -22.10  
>ENSRNOG00000017129 hs-mir-98 1581 1588  
UGAGGUAGUAAGUUGUAUUGUU&GCUUCUCAUCUCUGACAGUAAUACUCAACUGCAUCUACCUC  
(((((((((((((&.....)))))))).))))). -22.30

miRNA: mir-98

Human predicted target: ENSG00000140548  
Mouse predicted target: ENSMUSG00000048897  
Rat predicted target: ENSRNOG00000014278

mir-98 ENSG00000140548 2964 nt UTR 2 hits 528 1859  
-----1-----

1-----  
>ENSG00000140548 hs-mir-98 528 535  
UGAGGUAGUAAGUUGUAUUGUU&CUGUCGACGACCGCCAGGCAGGGCACUCUGCCUUCUACCUC  
(((((((((((((&.....)))))))).))))). -20.00  
>ENSG00000140548 hs-mir-98 1859 1866  
UGAGGUAGUAAGUUGUAUUGUU&UUCUCCUGCUGAGCAGAAGGCAUCAUCCCUAGCAACUACCUCU  
(((((((((((((&.....)))))))).))))). -17.90  
mir-98 ENSMUSG00000048897 2000 nt UTR 2 hits 519 1756  
-----1-----1-----

-----  
>ENSMUSG00000048897 hs-mir-98 519 526  
UGAGGUAGUAAGUUGUAUUGUU&CUAUCACUCAAGAGCCAGGCAGGGCACUCUGCCUUCUACCUC  
(((((((((((((&.....)))))))).))))). -20.00  
>ENSMUSG00000048897 hs-mir-98 1756 1763  
UGAGGUAGUAAGUUGUAUUGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUAGCAAACUACCUCU  
(((((((((((((&.....)))))))).))))). -19.40  
mir-98 ENSRNOG00000014278 4055 nt UTR 3 hits 550 1647 2696  
-----1-----1-----

-----  
>ENSRNOG00000014278 hs-mir-98 550 557  
UGAGGUAGUAAGUUGUAUUGUU&CUGUCACUCAAGAGCCAGGCAGGGCACUCUGCCUUCUACCUC  
(((((((((((((&.....)))))))).))))). -20.00  
>ENSRNOG00000014278 hs-mir-98 1647 1654  
UGAGGUAGUAAGUUGUAUUGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUAGCAAACUACCUCU  
(((((((((((((&.....)))))))).))))). -19.40  
>ENSRNOG00000014278 hs-mir-98 2696 2703  
UGAGGUAGUAAGUUGUAUUGUU&UUCUCCUGCUGAGCAGAAGGCAUCACCCCUAGCAAACUACCUCU

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

miRNA: mir-98

Human predicted target: ENSG00000148200

Mouse predicted target: ENSMUSG00000026752

Rat predicted target: ENSRNOG00000013232

Hs Gene description: ORPHAN NUCLEAR RECEPTOR NR6A1 (GERM CELL NUCLEAR FACTOR) (GCNF) (RETINOID RECEPTOR-RELATED TESTIS SPECIFIC RECEPTOR) (RTR).

[Source:SWISSPROT;Acc:Q15406] NM\_033335

mir-98 ENSG00000148200 2000 nt UTR 3 hits 388 1359 1387

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

>ENSG00000148200 hs-mir-98 388 395  
UGAGGUAGUAAGUUGUAUUGUU&UAAGAUGACUAUUUCCAUAUUGUUGACAAAGAUGACUACCUCAA  
((((((((((..((..((((&.....))))))..))..)))))))). -20.70

>ENSG00000148200 hs-mir-98 1359 1366  
UGAGGUAGUAAGUUGUAUUGUU&GCCAGAAGCACCUGGAAGGGAAGGGGGCUUUAACUACCUCAG  
((((((((((..((..((((&.....))))))..))..)))))))). -20.80

>ENSG00000148200 hs-mir-98 1387 1394  
UGAGGUAGUAAGUUGUAUUGUU&CUUUAACUACCUCAGGUUCCUAAUGGCCCGGCUGCUACCUCU  
((((((((((..((..((((&.....))))))..))..)))))))). -23.30

mir-98 ENSMUSG00000026752 6457 nt UTR 8 hits 101 371 794 1228 3827  
4135 4145 4310  
----1-----1-----1-----1-----  
-----

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

>ENSMUSG00000026752 hs-mir-98 101 108  
UGAGGUAGUAAGUUGUAUUGUU&AAGAGCCAGAGACCAAGAUGGAGACUGUGGAGCAGCUACCUC  
((((((((((..((..((((&.....))))))..))..)))))))). -21.60

>ENSMUSG00000026752 hs-mir-98 371 378  
UGAGGUAGUAAGUUGUAUUGUU&CUAGAUGAGUAUUUCCAUAUUGUUGACAAAGACAACUACCUCAA  
((((((((((..((..((((&.....))))))..))..)))))))). -21.50

>ENSMUSG00000026752 hs-mir-98 794 801  
UGAGGUAGUAAGUUGUAUUGUU&GAUCUACCAAGGCCUACCUUCUUCAGACCCCAUCCCUACCUCU  
((((((((((..((..((((&.....))))))..))..)))))))). -15.50

>ENSMUSG00000026752 hs-mir-98 1228 1235  
UGAGGUAGUAAGUUGUAUUGUU&AGCCAGAAAGACCUAGAAAGGAAAGGGCAUUAACUACCUCAU  
((((((((((..((..((((&.....))))))..))..)))))))). -20.00

>ENSMUSG00000026752 hs-mir-98 3827 3834  
UGAGGUAGUAAGUUGUAUUGUU&UGUUUUUACUCAAAUUCCAUGGGGGAAAAAGACUACCUCU  
((((((((((..((..((((&.....))))))..))..)))))))). -17.40

>ENSMUSG00000026752 hs-mir-98 4135 4142  
UGAGGUAGUAAGUUGUAUUGUU&AUUUCAGGGACUCUGAUGGCAAGUGCAUCAUGAACCUACCUCAG  
((((((((((..((..((((&.....))))))..))..)))))))). -20.12

>ENSMUSG00000026752 hs-mir-98 4145 4152  
UGAGGUAGUAAGUUGUAUUGUU&CUCUGAUGGCAAGUGCAUCAUGAACCUACCUCAGGCCUACCUC

```

((((((((.....(((((((((&.....)))))).))))).)))). -19.40
>ENSMUSG00000026752 hs-mir-98 4310 4317
UGAGGUAGUAAGUUGUAUUGUU&AGUUGGCGGGCUCUGCAGGCUCUCAGGCCUCUCUACCUC
((((((((((((((((((.....(((&.....)))))).))))).)))). -20.60
mir-98 ENSRNOG00000013232 5506 nt UTR 9 hits 374 774 1223 2875 3184
3194 3359 3736 4193
-----1-----1-----1-----1-----
-----1-----2-----1-----
-1-----1-----
>ENSRNOG00000013232 hs-mir-98 374 381
UGAGGUAGUAAGUUGUAUUGUU&CUAGGUGACUAUUUCCAUAUUGUUGACAAAGACAACUACCUCAG
((((((((((((((((((.....(((&.....)))))).))))).)))). -21.50
>ENSRNOG00000013232 hs-mir-98 774 781
UGAGGUAGUAAGUUGUAUUGUU&UAGCUGCCUGGUUCCUGACCCAGGUCUACCAGGCCUACCUC
((((((((.....&.....)))))). -15.10
>ENSRNOG00000013232 hs-mir-98 1223 1230
UGAGGUAGUAAGUUGUAUUGUU&AGCCAGAAGCACCUAGAAGGGAAAGGGCCUUUAAACUACCUCAU
((((((((((((((((((.....(((&.....)))))).))))).)))). -19.90
>ENSRNOG00000013232 hs-mir-98 2875 2882
UGAGGUAGUAAGUUGUAUUGUU&UGUUUUUAUCAAGUUUCCAUGGGGGGAAAAGACUACCUCU
((((((((((((((((((.....&.....)))))). -17.40
>ENSRNOG00000013232 hs-mir-98 3184 3191
UGAGGUAGUAAGUUGUAUUGUU&UUGGAUUUCAGGGACUCUGAUGGCAAGUGGUGAACCUACCUCAG
((((((((((((((((((.....(((&.....)))))).)))).)))). -19.50
>ENSRNOG00000013232 hs-mir-98 3194 3201
UGAGGUAGUAAGUUGUAUUGUU&GGGACUCUGAUGGCAAGUGGUGAACCUACCUCAGGCCUACCUC
((((((((((((((((((.....(((&.....)))))).)))).)))). -19.00
>ENSRNOG00000013232 hs-mir-98 3359 3366
UGAGGUAGUAAGUUGUAUUGUU&AGUUGGCGGGCUCUGCAGGCUCUCAGGCCUCUCUACCUC
((((((((((((((((((.....(((&.....)))))).)))).)))). -20.60
>ENSRNOG00000013232 hs-mir-98 3736 3743
UGAGGUAGUAAGUUGUAUUGUU&UAGCUGCCUGGUUCCUGACCCAGGUCUACCAGGCCUACCUC
((((((((((((((((((.....&.....)))))). -15.10
>ENSRNOG00000013232 hs-mir-98 4193 4200
UGAGGUAGUAAGUUGUAUUGUU&AGCCAGAAGCACCUAGAAGGGAAAGGGCCUUUAAACUACCUCAU
((((((((((((((((((.....(((&.....)))))).)))).)))). -19.90

```

miRNA: mir-98

Human predicted target: ENSG00000163935

Mouse predicted target: ENSMUSG00000006527

Rat predicted target: ENSRNOG00000016645

Hs Gene description: SCM-RELATED GENE CONTAINING FOUR MBT DOMAINS.

[Source:RefSeq;Acc:NM\_016329]

mir-98 ENSG00000163935 2000 nt UTR 2 hits 604 944

```

-----1-----1-----
-----
>ENSG00000163935 hs-mir-98 604 611

```

```

UGAGGUAGUAAGUUGUAUUGUU&AUUUUAAAAUCGAUUCUAGGAGUCCUUGUUUACUACCUCU
.((((((((((((.....&.....)))))))))). -19.90
>ENSG00000163935 hs-mir-98 944 951
UGAGGUAGUAAGUUGUAUUGUU&UUAUUUUGUGUUUACUUUCUCUAGAGUUGUUUGUCUACCUCU
.((((((((((((.....&.....)))))))))). -16.10
mir-98 ENSMUSG00000006527 2000 nt UTR 2 hits 578 904
-----1-----1-----
-----
>ENSMUSG00000006527 hs-mir-98 578 585
UGAGGUAGUAAGUUGUAUUGUU&CAUUUUAAAUCUAUUCUAGGAGUCCUUGUUUACUACCUCU
.((((((((((((.....&.....)))))))))). -21.10
>ENSMUSG00000006527 hs-mir-98 904 911
UGAGGUAGUAAGUUGUAUUGUU&UAUUUUAUGUUUAUUCUUCUGUUAGAGUUGUUUAACUACCUCU
.((((((((((((.....&.....)))))))))). -17.30
mir-98 ENSRNOG00000016645 2099 nt UTR 2 hits 559 888
-----1-----1-----
-----
>ENSRNOG00000016645 hs-mir-98 559 566
UGAGGUAGUAAGUUGUAUUGUU&CAUUUUAAAUCUGUCUAGGAGUCCUUGUUUACUACCUCU
.((((((((((((.....&.....)))))))))). -19.90
>ENSRNOG00000016645 hs-mir-98 888 895
UGAGGUAGUAAGUUGUAUUGUU&UGUUUUUAUGCUUAGUUUCUGUAGAGUUGUUUAACUACCUCU
.((((((((((((.....&.....)))))))))). -17.30

```

miRNA: mir-98

Human predicted target: ENSG00000166106

Mouse predicted target: ENSMUSG00000033453

Rat predicted target: ENSRNOG00000009892

Hs Gene description: ADAMTS-15 PRECURSOR (EC 3.4.24.-) (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 15) (ADAM-TS 15) (ADAM-TS15).

[Source:SWISSPROT;Acc:Q8TE58] NM\_139055

mir-98 ENSG00000166106 2000 nt UTR 2 hits 206 1185

```

-----1-----1-----
-----
>ENSG00000166106 hs-mir-98 206 213
UGAGGUAGUAAGUUGUAUUGUU&CUGGGCAGAGGGAAGCCAGGAACUCCCGCACAGUCUACCUCAG
((((((((((((.....&.....)))))))))). -17.80
>ENSG00000166106 hs-mir-98 1185 1192
UGAGGUAGUAAGUUGUAUUGUU&CGUUGCAUCCUAGGCCUAGCUUCUCCACUGUUUGCUACCUCAG
((((((((((((.....&.....)))))))))). -22.90
mir-98 ENSMUSG00000033453 5361 nt UTR 2 hits 692 1642
-----1-----1-----
-----
>ENSMUSG00000033453 hs-mir-98 692 699
UGAGGUAGUAAGUUGUAUUGUU&UGGACUGGGCAGGGGAAGUUAACUAAUGCACAGUCUACCUCAU
((((((((((((.....&.....)))))))))). -21.40

```

>ENSMUSG00000033453 hs-mir-98 1642 1649  
UGAGGUAGUAAGUUGUAUUGUU&CAGUUCUCUGGUAGGUAACGGGCUUCAUUGUUUGCUACCUCAG  
(((((((((((((((((.....)))))).....)))))))). -22.40  
mir-98 ENSRNOG00000009892 4706 nt UTR 3 hits 194 1084 3012

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

>ENSRNOG00000009892 hs-mir-98 194 201  
UGAGGUAGUAAGUUGUAUUGUU&UGGACUCGGCAGGGGAAGCUAACUAAUGCACAGUCUACCUCAU  
(((((((((((((((((.....)))))).....)))))))). -21.40

>ENSRNOG00000009892 hs-mir-98 1084 1091  
UGAGGUAGUAAGUUGUAUUGUU&CAUCUCUCUGGUAGGUAACGGGGCUUCAUUGUUUGCUACCUCAG  
(((((((((((((((((.....)))))).....)))))))). -22.40

>ENSRNOG00000009892 hs-mir-98 3012 3019  
UGAGGUAGUAAGUUGUAUUGUU&CAUCUCUCUGGUAGGUAACGGGGCUUCAUUGUUUGCUACCUCAG  
(((((((((((((((((.....)))))).....)))))))). -22.40

miRNA: mir-98  
Human predicted target: ENSG00000169635  
Mouse predicted target: ENSMUSG00000050240  
Rat predicted target: ENSRNOG00000001863  
Hs Gene description: HYPERMETHYLATED IN CANCER 2 PROTEIN (HIC-2) (HIC-3)  
(HIC1-RELATED GENE ON CHROMOSOME 22). [Source:SWISSPROT;Acc:Q96JB3]  
mir-98 ENSG00000169635 2050 nt UTR 3 hits 211 543 1158  
-----1-----1-----1-----

>ENSG00000169635 hs-mir-98 211 218  
UGAGGUAGUAAGUUGUAUUGUU&AGCCGAGAGGAGGAAGCCAGGGGUCCAGCCGUCUACCUC  
(((((((((((((((((.....&.....)))))).....)))))))). -18.30

>ENSG00000169635 hs-mir-98 543 550  
UGAGGUAGUAAGUUGUAUUGUU&CACUGGCGCUGGGACAGUCAGGGUGACCCACCGCCUACCUCU  
(((((((((((((((((.....&.....)))))).....)))))))). -18.20

>ENSG00000169635 hs-mir-98 1158 1165  
UGAGGUAGUAAGUUGUAUUGUU&CCUCGCUGAACAAGGUGGAGACUUCUGACCUUUUGCUACCUCU  
(((((((((((((((((.....&.....)))))).....)))))))). -21.90  
mir-98 ENSMUSG00000050240 2000 nt UTR 3 hits 307 635 1286

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

>ENSMUSG00000050240 hs-mir-98 307 314  
UGAGGUAGUAAGUUGUAUUGUU&AGUCUAGCCCUAUGCAUGUGGUGCUGGUGACUAUUCUACCUC  
(((((((((((((((((.....&.....)))))).....)))))))). -20.60

>ENSMUSG00000050240 hs-mir-98 635 642  
UGAGGUAGUAAGUUGUAUUGUU&UAGCUGGCACUGGAACAGUCAGGGUGACCCAUGCCUACCUCU  
(((((((((((((((((.....&.....)))))).....)))))))). -18.70

>ENSMUSG00000050240 hs-mir-98 1286 1293  
UGAGGUAGUAAGUUGUAUUGUU&CUCACUGAACAUGGUGGGGAGCCUUCUGACCUUUUGCUACCUCU  
(((((((((((((((((.....&.....)))))).....)))))))). -19.80

mir-98 ENSRNOG00000001863 2000 nt UTR 3 hits 197 511 1139  
-----1-----1-----1-----  
-----  
>ENSRNOG00000001863 hs-mir-98 197 204  
UGAGGUAGUAAGUUGUAUUGUU&AGUCUGGCCUCUGCAUGUGGUGCUGGUGACUACUCUACCUCC  
.((((((((((..((((((((((..(&.....))))))..))))))..)))))).. -20.60  
>ENSRNOG00000001863 hs-mir-98 511 518  
UGAGGUAGUAAGUUGUAUUGUU&UAGCUGGCACUGGAACAGUCAGGGUGACCCAUUGCCUACCUCU  
.((((((((((((((..(((((((((&.....))))))..))))..))))..)))))).. -18.70  
>ENSRNOG00000001863 hs-mir-98 1139 1146  
UGAGGUAGUAAGUUGUAUUGUU&UUCACUGAACAUUGAUGGAGAGCCUUCUGACCUUUGCUACCUCU  
.((((((((((((((.....&.....))))))..))))..)))).. -19.80

miRNA: mir-98  
Human predicted target: ENSG00000174498  
Mouse predicted target: ENSMUSG00000032394  
Rat predicted target: ENSRNOG00000013322  
Hs Gene description: SIMILAR TO PUTATIVE NEURONAL CELL ADHESION MOLECULE.  
[Source:SPTREMBL;Acc:Q8IVU1]

mir-98 ENSG00000174498 2458 nt UTR 4 hits 452 534 685 762  
-----1--1-----1--1-----  
-----  
>ENSG00000174498 hs-mir-98 452 459  
UGAGGUAGUAAGUUGUAUUGUU&UCAGGAUGGAUUUUUGCUGUUUUGGCUCUCAGCACCUACCUCAG  
((((((((((..((((((((((&.....))))))..))))))..)))))).. -20.10  
>ENSG00000174498 hs-mir-98 534 541  
UGAGGUAGUAAGUUGUAUUGUU&UCAGCCCCCUUACCCACAGAGCCCGAAUGCACUCCUACCUCAA  
((((((((((..((..((((((((&.....))))))..))))..))))..)))))).. -21.20  
>ENSG00000174498 hs-mir-98 685 692  
UGAGGUAGUAAGUUGUAUUGUU&AGCACUUCCCCAUUUCCAGAUGUGAAAGAAAUGUCUACCUCAA  
((((((((((..((..((((((((&.....))))))..))))..))))..)))))).. -17.44  
>ENSG00000174498 hs-mir-98 762 769  
UGAGGUAGUAAGUUGUAUUGUU&GACCUGCCUCCCCGCCCUCCUGCCCACAGCCCACCUACCUCU  
.((((((((((..((((((((&.....))))))..))))..))))..)))).. -19.80

mir-98 ENSMUSG00000032394 2523 nt UTR 4 hits 388 468 633 714  
-----1--1-----1--1-----  
-----  
>ENSMUSG00000032394 hs-mir-98 388 395  
UGAGGUAGUAAGUUGUAUUGUU&CAGGAUGGAUUUUGAGCUGUUGUGACUCUCAGCACCUACCUCAG  
((((((((((..((((((((&.....))))))..))))..))))..)))).. -20.60  
>ENSMUSG00000032394 hs-mir-98 468 475  
UGAGGUAGUAAGUUGUAUUGUU&CCUCCGCCUCUACCCACAGAGCCCGAAAGCACUCCUACCUCAA  
((((((((((..((..((((((((&.....))))))..))))..))))..)))).. -18.10  
>ENSMUSG00000032394 hs-mir-98 633 640  
UGAGGUAGUAAGUUGUAUUGUU&ACCACUGUCCCAACUCCAAGUGUGAAAGAAACUGUCUACCUCAG  
((((((((((..((((((((&.....))))))..))))..))))..)))).. -19.60  
>ENSMUSG00000032394 hs-mir-98 714 721

```

UGAGGUAGUAAGUUGUAUUGUU&GACCCUCCCCAGCCUCCUUCAUCCUGGCCUAGCCUACCUCU
.(((((((...(((.....&.....))))))))). -15.70
mir-98      ENSRNOG00000013322  2000 nt UTR      4 hits 470 550 703 788
-----1--1-----1--1-----
-----
>ENSRNOG00000013322 hs-mir-98      470      477
UGAGGUAGUAAGUUGUAUUGUU&CUCAGGAUGGAUUUUUAGCUGUUGUGACUCAGCACCUCUACCUCAG
(((((((...(((..(.&.....))..)))))..))))). -20.10
>ENSRNOG00000013322 hs-mir-98      550      557
UGAGGUAGUAAGUUGUAUUGUU&CCUCAGCCUCUACCCACAGAGCCCGAAAGCACUCCUACCUCAA
(((((((...(((.....&.....))))..))))). -18.10
>ENSRNOG00000013322 hs-mir-98      703      710
UGAGGUAGUAAGUUGUAUUGUU&ACCACUGUCCCAACUCCAAGUGUGAAAGAAACUGUCUACCUCAA
(((((((...(((.....&.....))))..))))). -19.60
>ENSRNOG00000013322 hs-mir-98      788      795
UGAGGUAGUAAGUUGUAUUGUU&CUCCUUGGCCUCCUCCUCCUGGCCUGGCCUGGCCUACCUCU
.(((((((...(((..(.&.....))..)))))..))))). -15.60

```

miRNA: mir-98

Human predicted target: ENSG00000182541

Mouse predicted target: ENSMUSG00000020451

Rat predicted target: ENSRNOG00000019000

Hs Gene description: LIM DOMAIN KINASE 2 (EC 2.7.1.-) (LIMK-2).

[Source:SWISSPROT;Acc:P53671] NM\_016733

```

mir-98      ENSG00000182541  3637 nt UTR      2 hits 1098 2572
-----1-----
-----1-----

```

```

>ENSG00000182541 hs-mir-98      1098      1105
UGAGGUAGUAAGUUGUAUUGUU&AGAGAGAUAGCUCCUGAGCUGGGCCAUCUGACUUCUACCUC
.(((((((...(((..(.&.....))..)))))..))))). -20.30
>ENSG00000182541 hs-mir-98      2572      2579
UGAGGUAGUAAGUUGUAUUGUU&GCCUUUAACAAGGGCUGUCUAGAUAUUCAUUUUUAACUACCUC
.(((((((...(((.....&.....))))..))))). -17.81
mir-98      ENSMUSG00000020451  3482 nt UTR      2 hits 140 976
-----1-----1-----
-----1-----

```

```

>ENSMUSG00000020451 hs-mir-98      140      147
UGAGGUAGUAAGUUGUAUUGUU&GAAGGCUUGCUUAGAGGCACAACAAGCCAUCCUACUACCUC
.(((((((...(((..(.&.....))..)))))..))))). -21.60
>ENSMUSG00000020451 hs-mir-98      976      983
UGAGGUAGUAAGUUGUAUUGUU&AGGAAAAGAACACCCUGAGCUGGGCCUUGUAGAUUCUACCUCU
.(((((((...(((..(.&.....))..)))))..))))). -16.20
mir-98      ENSRNOG00000019000  4867 nt UTR      2 hits 958 1727
-----1-----1-----
-----1-----

```

```

>ENSRNOG00000019000 hs-mir-98      958      965

```



UGAGGUAGUAAGUUGUAUUGUU&AUUGACGGCUUGCUUAGAAGCAGAACAAGCCAUCCCUACCUCC  
(((((((((((((.....)))))))).))))). -19.30  
>ENSRNOG00000019000 hs-mir-98 1727 1734  
UGAGGUAGUAAGUUGUAUUGUU&AUGAAGAGAGCUCCUGAGCUGGACCUUGUAGAGUCUACCUCU  
(((((((((((((.....)))))))).))))). -16.70

miRNA: mir-101

Human predicted target: ENSG00000104313

Mouse predicted target: ENSMUSG00000025932

Rat predicted target: ENSRNOG00000007590

Hs Gene description: EYES ABSENT HOMOLOG 1. [Source:SWISSPROT;Acc:Q99502]  
NM\_172059

mir-101 ENSG00000104313 3907 nt UTR 2 hits 198 1899

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

>ENSG00000104313 hs-mir-101 198 205  
UACAGUACUGUGUAUACUGA&CCACGUCUAUUUCAUCAGAACAGCUGUUGACUCUAGUACUGUGA  
(((((((((((((((((((((.....)))))))).))))). -20.00

>ENSG00000104313 hs-mir-101 1899 1906  
UACAGUACUGUGUAUACUGA&AUUUUGUGUUUAAGUUAUAAAUAUUUUGUGAUGUACUGUAA  
(((((((((((((((((((((.....)))))))).))))). -16.70

mir-101 ENSMUSG00000025932 2273 nt UTR 2 hits 197 1956

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

>ENSMUSG00000025932 hs-mir-101 197 204  
UACAGUACUGUGUAUACUGA&ACCAUGUGUAUUCUUCAGAACAGCUGUUGACUCUAGUACUGUGA  
(((((((((((((((((((((.....)))))))).))))). -20.00

>ENSMUSG00000025932 hs-mir-101 1956 1963  
UACAGUACUGUGUAUACUGA&AUGUUGUGUUUAAAUAUAAACUUGAUUUUGUGCAGUACUGUAAU  
(((((((((((((((((((((.....&.....)))))))).))))). -20.60

mir-101 ENSRNOG00000007590 2000 nt UTR 2 hits 197 1967

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

>ENSRNOG00000007590 hs-mir-101 197 204  
UACAGUACUGUGUAUACUGA&ACCAUGUUUAUUCUUCAGAACAGCUGUUGACUCUAGUACUGUGA  
(((((((((((((((((((((.....)))))))).))))). -20.00

>ENSRNOG00000007590 hs-mir-101 1967 1974  
UACAGUACUGUGUAUACUGA&AUUUUGUGUUUAAAUAUAAACUUGAUUUUGUGCAGUACUGUAAU  
(((((((((((((((((((((.....&.....)))))))).))))). -20.60

miRNA: mir-101

Human predicted target: ENSG00000106462

Mouse predicted target: ENSMUSG00000029687

Rat predicted target: ENSRNOG00000006048

Hs Gene description: ENHANCER OF ZESTE HOMOLOG 2 (ENX-1).

[Source:SWISSPROT;Acc:Q15910] NM\_152998

mir-101 ENSG00000106462 2000 nt UTR 2 hits 59 114

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

>ENSG00000106462 hs-mir-101 59 66  
UACAGUACUGUGUAACUGA&CUCUGAAACAGCUGCCUAGCUUCAGGAACCUCGAGUACUGUGG  
(((((((((((((.....(((&.....)))))).....)))))))). -20.20

>ENSG00000106462 hs-mir-101 114 121  
UACAGUACUGUGUAACUGA&AAAGAACAUGCAGUUUGAAAUUCUGAAUUUGCAAAGUACUGUAA  
(((((((((((((.....(((&.....)))))).....)))))))). -19.77

mir-101 ENSMUSG00000029687 2260 nt UTR 2 hits 59 114

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

>ENSMUSG00000029687 hs-mir-101 59 66  
UACAGUACUGUGUAACUGA&CUCUGAAACAGCUGCCUAGCUUCAGGAACCUUGAGUACUGUGG  
(((((((((((((.....(((&.....)))))).....)))))))). -18.76

>ENSMUSG00000029687 hs-mir-101 114 121  
UACAGUACUGUGUAACUGA&AACGGAAAUGCAGUUUGAAAUUCUGAAUUUGCAAAGUACUGUAA  
(((((((((((((.....(((&.....)))))).....)))))))). -19.77

mir-101 ENSRNOG00000006048 2000 nt UTR 2 hits 60 115

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

>ENSRNOG00000006048 hs-mir-101 60 67  
UACAGUACUGUGUAACUGA&CUCUCAACAGCUGCCUAGCUUCAGGAACCUUGAGUACUGUGG  
(((((((((((((.....(((&.....)))))).....)))))))). -18.76

>ENSRNOG00000006048 hs-mir-101 115 122  
UACAGUACUGUGUAACUGA&AAAGGAAAUGCAGUUUGAAAUUUUGAAUUUGCAAAGUACUGUAA  
(((((((((((((.....(((&.....)))))).....)))))))). -19.77

miRNA: mir-101

Human predicted target: ENSG00000106819

Mouse predicted target: ENSMUSG00000021388

Rat predicted target: ENSRNOG00000015410

Hs Gene description: ASPORIN PRECURSOR (PERIODONTAL LIGAMENT ASSOCIATED

PROTEIN-1) (PLAP- 1). [Source:SWISSPROT;Acc:Q9BXN1] NM\_017680

mir-101 ENSG00000106819 3085 nt UTR 2 hits 338 467

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

>ENSG00000106819 hs-mir-101 338 345  
UACAGUACUGUGUAACUGA&AACACUUUGUUAUCAAGCAUUAUUUAAAAGAACUGUACUGUAA  
(((((((((((((.....(((&.....)))))).....)))))))). -19.65

>ENSG00000106819 hs-mir-101 467 474  
UACAGUACUGUGUAACUGA&CAUUACACUAUUCUUAUUCUUUAGUAACUUGGGUAGUACUGUAA  
(((((((((((((.....(((&.....)))))).....)))))))). -17.42

mir-101 ENSMUSG00000021388 2926 nt UTR 2 hits 292 423

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

>ENSMUSG00000021388 hs-mir-101 292 299  
UACAGUACUGUGUAACUGA&UUAACCCUUCAUUAUCAAGUCAGUCAAAACAGAAUUGUACUGUAA  
((((((((((.....(((((&.....)))))).....)))))))). -19.00

>ENSMUSG00000021388 hs-mir-101 423 430  
UACAGUACUGUGUAACUGA&AUUUUUUAGUAGUUUUUUAAAAAAACUUGGACAGUACUGUAA  
((((((((((.....(((((&.....)))))).....)))))))). -20.92  
mir-101 ENSRNOG00000015410 2000 nt UTR 2 hits 295 424

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

>ENSRNOG00000015410 hs-mir-101 295 302  
UACAGUACUGUGUAACUGA&UUAACCCUUCAUUAUCAAGUCGGUUAACAGAAGUGUACUGUAA  
((((((((((.....(((((&.....)))))).....)))))))). -21.00

>ENSRNOG00000015410 hs-mir-101 424 431  
UACAGUACUGUGUAACUGA&CAUAGAUUUUAGUAUCUCUUAAUAACUAGGAUAGUACUGUAA  
((((((((((.....(((((&.....)))))).....)))))))). -19.66

miRNA: mir-101

Human predicted target: ENSG00000107362

Mouse predicted target: ENSMUSG00000047368

Rat predicted target: ENSRNOG00000012514

Hs Gene description: NM\_016014

mir-101 ENSG00000107362 3644 nt UTR 2 hits 259 704

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

>ENSG00000107362 hs-mir-101 259 266  
UACAGUACUGUGUAACUGA&UUUUUUCUGUGAAUUUUUUUUUAACAUCAAGAUGAGUACUGUAAU  
((((((((((.....(((((&.....)))))).....)))))))). -17.40

>ENSG00000107362 hs-mir-101 704 711  
UACAGUACUGUGUAACUGA&CACUGAAUUUUAAACUAGUUUUGACUUCUAAGUUUGGUACUGUGA  
((((((((((.....(((((&.....)))))).....)))))))). -16.50  
mir-101 ENSMUSG00000047368 3320 nt UTR 2 hits 251 693

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

>ENSMUSG00000047368 hs-mir-101 251 258  
UACAGUACUGUGUAACUGA&UUUUUUCUGUGAAUUUUUUUUUAACAUCAAGAUGAGUACUGUAAU  
((((((((((.....(((((&.....)))))).....)))))))). -17.40

>ENSMUSG00000047368 hs-mir-101 693 700  
UACAGUACUGUGUAACUGA&GGCGCUGGAUUUUAAACUAGUUCUGACUUAUGUUUGGUACUGUGA  
((((((((((.....(((((&.....)))))).....)))))))). -16.20  
mir-101 ENSRNOG00000012514 3314 nt UTR 2 hits 254 697

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

>ENSRNOG00000012514 hs-mir-101 254 261  
UACAGUACUGUGUAACUGA&UUUUUUCUGUGAAUUUUUUUUUAACAUCAAGAUGAGUACUGUAAU  
((((((((((.....(((((&.....)))))).....)))))))). -17.40

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

>ENSRNOG00000012514 hs-mir-101 697 704  
UACAGUACUGUGAUAAACUGA&UGGCGCUGGAUUUUACUAGUUCUGAUUUUAUGUUUGGUACUGUGA  
(((((((((((((.....&.....))))))))))))). -16.20

miRNA: mir-101

Human predicted target: ENSG00000124788

Mouse predicted target: ENSMUSG00000046876

Rat predicted target: ENSRNOG00000016998

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&UGUGCCGCGCAGCAUCUUUCUGUAUUUUAGGUCUAGUACUGUU  
(((((((((((((.....&.....))))))))))))). -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&UUCUUAACCAAGCACCUUGUUCUGUCAUUAACAAGUACUGUAU  
(((((((((((((.....&.....)))))))). -19.10

miRNA: mir-101

Human predicted target: ENSG00000125848

Mouse predicted target: ENSMUSG00000051379

Rat predicted target: ENSRNOG00000004874

Hs Gene description: LEUCINE-RICH REPEAT TRANSMEMBRANE PROTEIN FLRT3  
PRECURSOR (FIBRONECTIN-LIKE DOMAIN-CONTAINING LEUCINE-RICH TRANSMEMBRANE  
PROTEIN 3). [Source:SWISSPROT;Acc:Q9NZU0] NM\_013281

mir-101 ENSG00000125848 4569 nt UTR 2 hits 115 248

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

>ENSG00000125848 hs-mir-101 115 122  
UACAGUACUGUGAUAAACUGA&CAAAACACUGGAAAAAGAGACUGAAAAAAGCAAUGUACUGUAC  
(((((((((((((.....&.....)))))))). -15.20

>ENSG00000125848 hs-mir-101 248 255  
UACAGUACUGUGAUAAACUGA&ACACAAUUCUAUAUUUUAGUAUUUUUUAGUAAUUUGUACUGUAU  
(((((((((((((.....&.....)))))))). -18.50

mir-101 ENSMUSG00000051379 2000 nt UTR 2 hits 117 250

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

>ENSMUSG00000051379 hs-mir-101 117 124  
UACAGUACUGUGAUAAACUGA&UGCAAACACUGGAAAAGAGACUGAGAGAAGCAAUGUACUGUAC  
(((((((((((((.....&.....)))))))). -15.20

>ENSMUSG00000051379 hs-mir-101 250 257  
UACAGUACUGUGAUAAACUGA&ACACAAUUCUAUAUUUUAGUAUUUUUUAGUAAUUUGUACUGUAU  
(((((((((((((.....&.....)))))))). -18.50

mir-101 ENSRNOG00000004874 2000 nt UTR 2 hits 124 257

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

>ENSRNOG00000004874 hs-mir-101 124 131  
UACAGUACUGUGAUAAACUGA&CGAAACACUGGAAAAAGAGACUGAGAAAAGCAAUGUACUGUAC  
(((((((((((((.....&.....)))))))). -15.20

>ENSRNOG00000004874 hs-mir-101 257 264  
UACAGUACUGUGAUAAACUGA&ACACAGUUCUAUAUUUUAGUAUUUUUUAGUAAUUUGUACUGUAU  
(((((((((((((.....&.....)))))))). -18.50

miRNA: mir-101

Human predicted target: ENSG00000127314

Mouse predicted target: ENSMUSG00000020200

Rat predicted target: ENSRNOG00000007048

Hs Gene description: RAS-RELATED PROTEIN RAP-1B (GTP-BINDING PROTEIN SMG  
P21B). [Source:SWISSPROT;Acc:P09526] NM\_015646

mir-101 ENSG00000127314 3273 nt UTR 2 hits 309 965

```

-----1-----1-----
-----
>ENSG00000127314 hs-mir-101      309      316
UACAGUACUGUGAUAAACUGA&UUCAUCCACCAAUGUUGUACAUGUAUGAAAUGGUGUACUGUUAU
(((((((((((((...&.....)))))).)).....)))))))). -16.44
>ENSG00000127314 hs-mir-101      965      972
UACAGUACUGUGAUAAACUGA&GUAACGUUUUGGUUGAGAUGUUAUAAAUGGUGGACGAGUACUGUGG
(((((((((((((...&.....)))))).)).....)))))))). -17.50
mir-101      ENSMUSG00000020200      3340 nt UTR      4 hits 305 961 2865 3178
-----1-----1-----
-----1-----1-----
>ENSMUSG00000020200 hs-mir-101      305      312
UACAGUACUGUGAUAAACUGA&UUCAUCCACCAAUGUUGUACAUGUAUGAAAUGGUGUACUGUUAU
(((((((((((((...&.....)))))).)).....)))))))). -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
-----1-----1-----
-----1-----1-----
>ENSRNOG00000007048 hs-mir-101      310      317
UACAGUACUGUGAUAAACUGA&UUCAUCCACCAAUGUUGUACAUGUAUGAAAUGGUGUACUGUUAU
(((((((((((((...&.....)))))).)).....)))))))). -16.44
>ENSRNOG00000007048 hs-mir-101      966      973
UACAGUACUGUGAUAAACUGA&GUAACGUUUUGGUUGAGAUGUUAUAAAUGGUGGACGAGUACUGUGG
(((((((((((((...&.....)))))).)).....)))))))). -17.50
>ENSRNOG00000007048 hs-mir-101      2796      2803
UACAGUACUGUGAUAAACUGA&AACCUUUUAUCUUAUGUUGUUCUUUCAUUCUUUAUUGUACUGUU
(((((((((((((...&.....)))))).)).....)))))))). -15.80
>ENSRNOG00000007048 hs-mir-101      3114      3121
UACAGUACUGUGAUAAACUGA&UUCAUCCACCAAUGUUGUACAUGUAUGAAAUGGUGUACUGUUAU
(((((((((((((...&.....)))))).)).....)))))))). -16.44

```

```

miRNA: mir-101
Human predicted target: ENSG00000132669
Mouse predicted target: ENSMUSG00000001768
Rat predicted target: ENSRNOG00000010131
Hs Gene description: RAS AND RAB INTERACTOR 2 (RAS
INTERACTION/INTERFERENCE PROTEIN 2) (RAS INHIBITOR JC265) (RAS ASSOCIATION
DOMAIN FAMILY 4). [Source:SWISSPROT;Acc:Q8WYP3] NM_018993
mir-101      ENSG00000132669      3520 nt UTR      2 hits 747 1322

```

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

>ENSG00000132669 hs-mir-101 747 754  
UACAGUACUGUGAUAAACUGA&UGACACUGGCCACAGAAUGCCUUUGGAAAUCGGAUGUACUGUU  
.(((((((((((((..(((&.....))..)))))..))))).. -16.60

>ENSG00000132669 hs-mir-101 1322 1329  
UACAGUACUGUGAUAAACUGA&CCACGUAACACAGGUAGUUACAAAAACAUGUUAUUGUACUGUGU  
(((((((((((((((..(((&.....))..)))))..))))).. -19.41  
mir-101 ENSMUSG00000001768 3689 nt UTR 2 hits 792 1018

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

>ENSMUSG00000001768 hs-mir-101 792 799  
UACAGUACUGUGAUAAACUGA&GACGCGGCCACAGGCUGCCUUUGAAAAAUCGGGUGUACUGUU  
.(((((((((((((.....&.....))..)))))..))))).. -16.00

>ENSMUSG00000001768 hs-mir-101 1018 1025  
UACAGUACUGUGAUAAACUGA&UUCAGGCUCUUCGCAAGACGUUGGAAAAGGAGUCAGUACUGUAA  
(((((((((((((((..(((&..))..)))))..))))).. -19.65  
mir-101 ENSRNOG00000010131 3546 nt UTR 2 hits 795 958

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

>ENSRNOG00000010131 hs-mir-101 795 802  
UACAGUACUGUGAUAAACUGA&UGGCCACAGGCGGCCUUUGAAAAAUAACCGGGUGUACUGUU  
.(((((((((((((.....&.....))..)))))..))))).. -13.40

>ENSRNOG00000010131 hs-mir-101 958 965  
UACAGUACUGUGAUAAACUGA&UAGUCUGCAGGUUCAGGCUCUUAAGAAAAGGAGUCAGUACUGUAA  
(((((((((((((((..(((&.....))..)))))..))))).. -20.24

miRNA: mir-101  
Human predicted target: ENSG00000134323  
Mouse predicted target: ENSMUSG00000037169  
Rat predicted target: ENSRNOG00000006308  
Hs Gene description: N-MYC PROTO-ONCOGENE PROTEIN.  
[Source:SWISSPROT;Acc:P04198]

mir-101 ENSG00000134323 2907 nt UTR 2 hits 494 563

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

>ENSG00000134323 hs-mir-101 494 501  
UACAGUACUGUGAUAAACUGA&UUGCGGCCAGUAUUAGACUGGAAGUUCACUACCUAAGUACUGUAA  
(((((((((((((((..(((&.....))..)))))..))))).. -17.90

>ENSG00000134323 hs-mir-101 563 570  
UACAGUACUGUGAUAAACUGA&GUUUUGUAUACAAAUUAUUGUUAUCUCUGUUAUGUACUGUAC  
(((((((((((((((..(((&.....))..)))))..))))).. -17.00  
mir-101 ENSMUSG00000037169 2911 nt UTR 3 hits 489 556 2017

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

>ENSMUSG00000037169 hs-mir-101 489 496  
UACAGUACUGUGAUAAACUGA&UUGCGGCCAGUAUUAGACUGGAAGUUCACACCUAAGUACUGUAA

((((((((((((((..(((((..&.....))))))..)))))))). -19.70  
>ENSMUSG00000037169 hs-mir-101 556 563

UACAGUACUGUGAUAAACUGA&AUGUUUUGUAUACAAAUAUAUUGUUAUCUGUUAUGUACUGUAC  
((((((((((((((..(((((..&.....))))))..)))))))). -17.50

>ENSMUSG00000037169 hs-mir-101 2017 2024  
UACAGUACUGUGAUAAACUGA&AGCCAAGGGUCCAGACAGCUUUGCUUGUGUGGCUGUACUGUC

.((((((((((((((..(((((..&.....))))))..)))))))). -17.30  
mir-101 ENSRNOG00000006308 2915 nt UTR 4 hits 484 551 1414 1481

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

>ENSRNOG00000006308 hs-mir-101 484 491  
UACAGUACUGUGAUAAACUGA&CUCGGGCCAGUAUUAGACUGGAAGUUCACACCUAAGUACUGUAA

((((((((((((((..(((((..&.....))))))..)))))))). -19.70  
>ENSRNOG00000006308 hs-mir-101 551 558

UACAGUACUGUGAUAAACUGA&AUGUUUUGUAUACAAAUAUAUUGUUAUCUGUUAUGUACUGUAC  
((((((((((((((..(((((..&.....))))))..)))))))). -17.50

>ENSRNOG00000006308 hs-mir-101 1414 1421  
UACAGUACUGUGAUAAACUGA&CUCGGGCCAGUAUUAGACUGGAAGUUCACACCUAAGUACUGUAA

((((((((((((((..(((((..&.....))))))..)))))))). -19.70  
>ENSRNOG00000006308 hs-mir-101 1481 1488

UACAGUACUGUGAUAAACUGA&AUGUUUUGUAUACAAAUAUAUUGUUAUCUGUUAUGUACUGUAC  
((((((((((((((..(((((..&.....))))))..)))))))). -17.50

miRNA: mir-101  
Human predicted target: ENSG00000159167  
Mouse predicted target: ENSMUSG00000014813  
Rat predicted target: ENSRNOG00000015075  
Hs Gene description: STANNIOCALCIN 1 PRECURSOR (STC-1).  
[Source:SWISSPROT;Acc:P52823] NM\_003155  
mir-101 ENSG00000159167 4849 nt UTR 3 hits 72 654 755

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

>ENSG00000159167 hs-mir-101 72 79  
UACAGUACUGUGAUAAACUGA&AUCAUUUUAGGGGUGUUGACACACCAGUUUUGAGUGUACUGUGC

((((((((((((((..(((((..&.....))))))..)))))))). -19.80  
>ENSG00000159167 hs-mir-101 654 661

UACAGUACUGUGAUAAACUGA&GCAUCUAAUGAAAAACAAAAGCUAACAUCUUUACGUACUGUAA  
((((((((((((((..(((((..&.....))))))..)))))))). -17.10

>ENSG00000159167 hs-mir-101 755 762  
UACAGUACUGUGAUAAACUGA&GUCUAAACUGUGGAAUAUAAAUAGCUGAAAACUAAUGUACUGUAC

((((((((((((((..(((((..&.....))))))..)))))))). -14.70  
mir-101 ENSMUSG00000014813 5087 nt UTR 3 hits 71 656 758

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

>ENSMUSG00000014813 hs-mir-101 71 78



UACAGUACUGUGUAACUGA&AGCAUUUUAGGGGUGUUGACACACCAACUUUGAGUGUACUGUGC  
(((((((((((((((((...&.....)))))).))))). -18.10  
>ENSMUSG00000014813 hs-mir-101 656 663  
UACAGUACUGUGUAACUGA&CAUCUAAUGAAAAACAAAAAGCUAACAUUUUAUGUACUGUAA  
(((((((((((((((((...&.....)))))).))))). -15.80  
>ENSMUSG00000014813 hs-mir-101 758 765  
UACAGUACUGUGUAACUGA&GUCUAACUGUGGAAUAUAAAUAGCUGAAAACUAUUGUACUGUAC  
(((((((((((((((((...&.....)))))).))))). -15.10  
mir-101 ENSRNOG00000015075 4231 nt UTR 3 hits 74 651 752  
--1-----1--1-----

>ENSRNOG00000015075 hs-mir-101 74 81  
UACAGUACUGUGUAACUGA&AGCGUUUUAGGGGUGUUUACACACCAACUUUGAGUGUACUGUGC  
(((((((((((((((((...&.....)))))).))))). -15.80  
>ENSRNOG00000015075 hs-mir-101 651 658  
UACAGUACUGUGUAACUGA&GCAUCUAAUGAAAAACAAAAAGCUAACAUUUUAUGUACUGUAA  
(((((((((((((((((...&.....)))))).))))). -15.80  
>ENSRNOG00000015075 hs-mir-101 752 759  
UACAGUACUGUGUAACUGA&GUCUAACUGUGGAAUAUAAAUAGCUGAAAACUAUUGUACUGUAC  
(((((((((((((((((...&.....)))))).))))). -15.10

miRNA: mir-103  
Human predicted target: ENSG00000084733  
Mouse predicted target: ENSMUSG00000020671  
Rat predicted target: ENSRNOG00000011273  
Hs Gene description: RAS-RELATED PROTEIN RAB-10.  
[Source:SWISSPROT;Acc:O88386] NM\_016131  
mir-103 ENSG00000084733 4432 nt UTR 2 hits 773 1564  
-----1-----1-----

>ENSG00000084733 hs-mir-103 773 780  
AGCAGCAUUGUACAGGGCUAUGA&UUCUCCUUGGCCACUUCUUCUUGCGUCUCCUGCAUGCUGCUU  
(((((((((((((((((...&.....)))))).))))). -  
25.20  
>ENSG00000084733 hs-mir-103 1564 1571  
AGCAGCAUUGUACAGGGCUAUGA&UGC UUAUCAUUAGGAUAGGGUAAGUGAAGUUUGCUAUGCUGCUA  
(((((((((((((((((...&.....)))))).))))). -  
20.30  
mir-103 ENSMUSG00000020671 2358 nt UTR 2 hits 759 1481  
-----1-----1-----

>ENSMUSG00000020671 hs-mir-103 759 766  
AGCAGCAUUGUACAGGGCUAUGA&UUGGGCCACCCUGUCCUGCGUCUCAUCUUUCUGCAUGCUGCUU  
(((((((((((((((((...&.....)))))).))))). -  
24.00

>ENSMUSG00000020671 hs-mir-103 1481 1488  
AGCAGCAUUGUACAGGGCUAUGA&UGCUCUCAUUAGGAUAGGGUAGGCUAAGUUCUCCUAUGCUGCUA  
((((((((((...((...(((...&.....))))))..)).....)))))).. -  
22.50  
mir-103 ENSRNOG00000011273 2000 nt UTR 2 hits 757 1476  
-----1-----1-----  
-----

>ENSRNOG00000011273 hs-mir-103 757 764  
AGCAGCAUUGUACAGGGCUAUGA&UUGGGCCACUCUGUCCUGCGUCUCAUCUUUCUGCAUGCUGCUU  
((((((((((...(((...(((...&.....))))))..)).....)))))).. -  
23.11

>ENSRNOG00000011273 hs-mir-103 1476 1483  
AGCAGCAUUGUACAGGGCUAUGA&UGCUCUCAUUAGGAUAGGGUAGGCGAAGUUCUCCUAUGCUGCUA  
((((((((((...(((...(((...&.....))))))..)).....)))))).. -  
20.70

miRNA: mir-103  
Human predicted target: ENSG00000105085  
Mouse predicted target: ENSMUSG00000045248  
Rat predicted target: ENSRNOG00000012270  
Hs Gene description: COFACTOR REQUIRED FOR SP1 TRANSCRIPTIONAL ACTIVATION  
SUBUNIT 7 (TRANSCRIPTIONAL CO-ACTIVATOR CRSP70) (ACTIVATOR-RECRUITED  
COFACTOR 70 KDA COMPONENT) (ARC70). [Source:SWISSPROT;Acc:O95402]  
NM\_004831  
mir-103 ENSG00000105085 2000 nt UTR 2 hits 189 672  
-----1-----1-----  
-----

>ENSG00000105085 hs-mir-103 189 196  
AGCAGCAUUGUACAGGGCUAUGA&UCUCUGCGCUCUCCUCAAACUCUUUUUGUGAAAUGCUGCUA  
((((((((((...(((...(((...&..))..))..)).....))))))..)).. -  
22.66

>ENSG00000105085 hs-mir-103 672 679  
AGCAGCAUUGUACAGGGCUAUGA&UAUCUGGUUCAGUUAUAACCCAGUUUUUAAAGAAAUGCUGCA  
..((((((((((...(((...(((...&.....))))))..))..)).....)))))).. -22.80  
mir-103 ENSMUSG00000045248 2000 nt UTR 2 hits 102 531  
----1-----1-----  
-----

>ENSMUSG00000045248 hs-mir-103 102 109  
AGCAGCAUUGUACAGGGCUAUGA&AGCAUGAGGCUCGCUCUCCACCAUCCUUUUGUGAAAUGCUGCUA  
((((((((((...(((...(((...&.....))))))..)).....)))))).. -  
24.62

>ENSMUSG00000045248 hs-mir-103 531 538  
AGCAGCAUUGUACAGGGCUAUGA&AUAUGGUUCAGUUCAGUCCAGUUCUAAAAGAAAUGCUGCA  
..((((((((((...(((...(((...&.....))))))..))..)).....)))))).. -21.80  
mir-103 ENSRNOG00000012270 2000 nt UTR 2 hits 105 581  
----1-----1-----  
-----

>ENSRNOG00000012270 hs-mir-103 105 112  
AGCAGCAUUGUACAGGGCUAUGA&AGCAUGAGGCUCGCUCUCCACCCUCCUUUUUUGAAAUGCUGCUA  
((((((((.....((((.....&.....)))))).....)))))))). -  
21.93  
>ENSRNOG00000012270 hs-mir-103 581 588  
AGCAGCAUUGUACAGGGCUAUGA&UAUAUGGUUUCAGUUCAGUCCAGUUCUAAAAGAAAUGCUGCA  
((((((((.....((((.....&.....)))))).....)))))))). -21.90

miRNA: mir-103  
Human predicted target: ENSG00000137309  
Mouse predicted target: ENSMUSG00000041059  
Rat predicted target: ENSRNOG00000000488  
Hs Gene description: HIGH MOBILITY GROUP PROTEIN HMG-I/HMG-Y (HMG-I(Y))  
(HIGH MOBILITY GROUP AT-HOOK 1). [Source:SWISSPROT;Acc:P17096] NM\_145902  
mir-103 ENSG00000137309 2616 nt UTR 2 hits 447 1048

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

>ENSG00000137309 hs-mir-103 447 454  
AGCAGCAUUGUACAGGGCUAUGA&CCCAGUCCAGGGAAGGUGGGGCCUAGGAUGCUGCA  
((((((((.....((((.....&.....)))))).....)))))))). -31.90  
>ENSG00000137309 hs-mir-103 1048 1055  
AGCAGCAUUGUACAGGGCUAUGA&GGGCAGUGAGGUGAUGGUGAGGGCAUGGGAAGCAGAUGCUGCUG  
((((((((.....((((.....&.....)))))).....)))))))). -  
22.00  
mir-103 ENSMUSG00000041059 3180 nt UTR 2 hits 1011 2999

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

>ENSMUSG00000041059 hs-mir-103 1011 1018  
AGCAGCAUUGUACAGGGCUAUGA&CCCACACUAAGGAAGAUGGGGCCCCACCCCGUGGAUGCUGCA  
((((((((.....((((.....&.....)))))).....)))))))). -25.30  
>ENSMUSG00000041059 hs-mir-103 2999 3006  
AGCAGCAUUGUACAGGGCUAUGA&AACCAGAACCGAAAAGGUAUGAGGCCACUCUAGGAUGCUGCUG  
((((((((.....((((.....&.....)))))).....)))))))). -  
26.70  
mir-103 ENSRNOG00000000488 2018 nt UTR 2 hits 1009 1563

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

>ENSRNOG00000000488 hs-mir-103 1009 1016  
AGCAGCAUUGUACAGGGCUAUGA&CCCACGCUAGGGAAGAUGGGGCCCCCGCCCGUGGAUGCUGCA  
((((((((.....((((.....&.....)))))).....)))))))). -28.40  
>ENSRNOG00000000488 hs-mir-103 1563 1570  
AGCAGCAUUGUACAGGGCUAUGA&CUGCCAGCCAUGAACCACCUGUCAGGAAGAGCAAGAUGCUGCA  
((((((((.....((((.....&.....)))))).....)))))))). -23.24

miRNA: mir-103  
Human predicted target: ENSG00000141433

Mouse predicted target: ENSMUSG00000024256  
Rat predicted target: ENSRNOG00000014921  
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

-----  
--1-----1-----  
>ENSG00000141433 hs-mir-103 1921 1928  
AGCAGCAUUGUACAGGGCUAUGA&AAACAGAAUUGGAUUUGCAUUC CAGGCGGGAUGGAUGCUGCC  
.((((((((((...(((...((...&.....)))))))).)))). -21.20  
>ENSG00000141433 hs-mir-103 2120 2127  
AGCAGCAUUGUACAGGGCUAUGA&CCACGAAUCACAGAUGGCUAUUUAGUGGCCCUACAAUGCUGCA  
.((((((((((...(((...((...&.....)))))))).)))). -34.30  
mir-103 ENSMUSG00000024256 2000 nt UTR 2 hits 1400 1821

-----1-----1-----  
-----  
>ENSMUSG00000024256 hs-mir-103 1400 1407  
AGCAGCAUUGUACAGGGCUAUGA&CCAAUCUUUGUCAUAUUAGAAUGUGUAGUGUCCAAUGCUGCUC  
((((((((((...(((...((...&.....)))))))).)))). -  
24.20  
>ENSMUSG00000024256 hs-mir-103 1821 1828  
AGCAGCAUUGUACAGGGCUAUGA&AACACUGUAUUUGCAUUC CAGGUGGGUGGAUGGAUGCUGCC  
.((((((((((...(((...((...&.....)))))))).)))). -20.40  
mir-103 ENSRNOG00000014921 2000 nt UTR 2 hits 1437 1880

-----1-----  
-1----  
>ENSRNOG00000014921 hs-mir-103 1437 1444  
AGCAGCAUUGUACAGGGCUAUGA&CCAAUCUUUGUCAUAUUAGAAUGUGUAGUGUCCAAUGCUGCUC  
((((((((((...(((...((...&.....)))))))).)))). -  
24.20  
>ENSRNOG00000014921 hs-mir-103 1880 1887  
AGCAGCAUUGUACAGGGCUAUGA&AAAAACUGUAUUUGCAUUC CAGGCGGGUGGAUGGAUGCUGCC  
.((((((((((...(((...((...&.....)))))))).)))). -20.80

miRNA: mir-103  
Human predicted target: ENSG00000159388  
Mouse predicted target: ENSMUSG00000041551  
Rat predicted target: ENSRNOG00000003300  
Hs Gene description: BTG2 PROTEIN (NGF-INDUCIBLE ANTI-PROLIFERATIVE  
PROTEIN PC3). [Source:SWISSPROT;Acc:P78543] NM\_006763  
mir-103 ENSG00000159388 4164 nt UTR 2 hits 36 885

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

>ENSG00000159388 hs-mir-103 36 43  
AGCAGCAUUGUACAGGGCUAUGA&GCCCUUCCGCCCGCCUGGGCGCCCGUGCUCAUGCUGCC  
.((((((((((..((((((.....&.....)))))))).)).....)))))))). -28.20  
>ENSG00000159388 hs-mir-103 885 892  
AGCAGCAUUGUACAGGGCUAUGA&AAAACUCUCCUUUUGGAACCACAUGAAAGUCUUGAUGCUGCUG  
((((((((((..((((((.....&.....)))))))).)).....)))))))). -  
21.60  
mir-103 ENSMUSG00000041551 4042 nt UTR 2 hits 37 872  
-1-----1-----

>ENSMUSG00000041551 hs-mir-103 37 44  
AGCAGCAUUGUACAGGGCUAUGA&UAGGAGCCACCCGACCCUGGCACUCUACUGUUCUCAUGCUGCC  
.((((((((((..((((((.....&.....)))))))).)).....)))))))). -23.01  
>ENSMUSG00000041551 hs-mir-103 872 879  
AGCAGCAUUGUACAGGGCUAUGA&CAGUCCUCCUUUUGGGGAACCACACGACAGUCUGAAUGCUGCUA  
((((((((((..((((((.....&.....)))))))).)).....)))))))). -  
21.80  
mir-103 ENSRNOG00000003300 3981 nt UTR 2 hits 40 853  
-1-----1-----

>ENSRNOG00000003300 hs-mir-103 40 47  
AGCAGCAUUGUACAGGGCUAUGA&GAGGAGCCGCCCGCCUGGCACUCUACUGUUCUCAUGCUGCC  
.((((((((((..((((((.....&.....)))))))).)).....)))))))). -27.01  
>ENSRNOG00000003300 hs-mir-103 853 860  
AGCAGCAUUGUACAGGGCUAUGA&UAAGCCUCCUUUUGGGGAACCACGUGACAGUCUGAAUGCUGCUA  
((((((((((..((((((.....&..)))))))).)).....)))))))). -  
24.39

miRNA: mir-103  
Human predicted target: ENSG00000165156  
Mouse predicted target: ENSMUSG00000022361  
Rat predicted target: ENSRNOG00000006412  
Hs Gene description: ZINC-FINGERS AND HOMEBOXES 1; ZINC FINGERS AND  
HOMEBOX 1. [Source:RefSeq;Acc:NM\_007222]  
mir-103 ENSG00000165156 3581 nt UTR 2 hits 1323 1385  
-----1--1-----

>ENSG00000165156 hs-mir-103 1323 1330  
AGCAGCAUUGUACAGGGCUAUGA&CCAUUGAAAUGUUAUGAAAAGCCUUGAAUAUGCAUGCUGCUU  
((((((((((..((((((((((.....&.....)))))))).)).....)))))))). -  
27.70  
>ENSG00000165156 hs-mir-103 1385 1392  
AGCAGCAUUGUACAGGGCUAUGA&UAUUUUUAACUAUAGCUUUUAUUAGUAAUCCAAAUGCUGCA  
.((((((((((..((((((((((.....&.....)))))))).)).....)))))))). -24.40  
mir-103 ENSMUSG00000022361 3483 nt UTR 2 hits 1221 1283

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

>ENSMUSG00000022361 hs-mir-103 1221 1228  
AGCAGCAUUGUACAGGGCUAUGA&UAAUGAGAAAUGUUAUGAUAAAGCCUUGACUAUGCAUGCUGCUU  
(((((((((((((.....&.....))))))))).)))))))). -  
27.70

>ENSMUSG00000022361 hs-mir-103 1283 1290  
AGCAGCAUUGUACAGGGCUAUGA&UAUUUUUUAACUAUAGCUUUAUUAGCAAUUCCAAUGCUGCA  
.(((((((((((((.....&.....))))))))).)))))))). -23.07  
mir-103 ENSRNOG00000006412 3519 nt UTR 2 hits 1259 1321

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

>ENSRNOG00000006412 hs-mir-103 1259 1266  
AGCAGCAUUGUACAGGGCUAUGA&UAAUGAGAGAUGUUAUGAAAAGCCUUGAAUAUGCAUGCUGCUU  
(((((((((((((.....&.....))))))))).)))))))). -  
27.70

>ENSRNOG00000006412 hs-mir-103 1321 1328  
AGCAGCAUUGUACAGGGCUAUGA&UAUUUUUUAACUAUAGCUUUAUUAGCAAUUCCAAUGCUGCA  
.(((((((((((((.....&.....))))))))).)))))))). -23.07

miRNA: mir-103  
Human predicted target: ENSG00000168646  
Mouse predicted target: ENSMUSG00000000142  
Rat predicted target: ENSRNOG000000003612  
Hs Gene description: AXIN 2 (AXIS INHIBITION PROTEIN 2) (CONDUCTIN) (AXIN-  
LIKE PROTEIN) (AXIL). [Source:SWISSPROT;Acc:Q9Y2T1]  
mir-103 ENSG00000168646 2450 nt UTR 3 hits 256 412 635

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

>ENSG00000168646 hs-mir-103 256 263  
AGCAGCAUUGUACAGGGCUAUGA&UUUUAUUAAAACAUGACCACUCUUGGCCUAUUGAAGAUGCUGCC  
.(((((((((((((.....&.....))))))))).)))))))). -24.10

>ENSG00000168646 hs-mir-103 412 419  
AGCAGCAUUGUACAGGGCUAUGA&GAACAGUUGAUUUCCCCCAUCCCCAGUUUAUGGAUAUGCUGCUU  
(((((((((((((.....&.....))))))))).)))))))). -  
20.10

>ENSG00000168646 hs-mir-103 635 642  
AGCAGCAUUGUACAGGGCUAUGA&UGCAGAAAUUGGUGCGUUUUGUUUUUUUUUCCUAUGCUGCUC  
(((((((((((((.....&.....))))))))).)))))))). -  
19.09

mir-103 ENSMUSG00000000142 2000 nt UTR 2 hits 452 678  
-----1--1-----

>ENSMUSG00000000142 hs-mir-103 452 459  
AGCAGCAUUGUACAGGGCUAUGA&CCCUACCCGCCUCUCCUACCCCCAGCCCCAGUUUAUGCUGCUU  
(((((((((((((.....&.....))))))))).)))))))). -  
25.70

>ENSMUSG00000000142 hs-mir-103 678 685  
AGCAGCAUUGUACAGGGCUAUGA&AAAUGGGUCACCCCCACCCCACCCCACCCCCCGCCAUGCUGCUC  
(((((((((((((.....&.....)))))))))..)))). -  
22.10  
mir-103 ENSRNOG00000003612 2609 nt UTR 2 hits 448 679  
-----1-----1-----

>ENSRNOG00000003612 hs-mir-103 448 455  
AGCAGCAUUGUACAGGGCUAUGA&CCCCACUCCCACCCCAACCCCAACCCCAGUUUAUGCUGCUU  
(((((((((((((.....&.....)))))))))..)))). -  
22.00  
>ENSRNOG00000003612 hs-mir-103 679 686  
AGCAGCAUUGUACAGGGCUAUGA&AAGUCGGUCACCCCCACCCCAACCCCACCCCAGCCAUGCUGCUC  
(((((((((((((.....&.....)))))))))..)))). -  
21.80

miRNA: mir-103

Human predicted target: ENSG00000176569  
Mouse predicted target: ENSMUSG00000041059  
Rat predicted target: ENSRNOG00000000488

mir-103 ENSG00000176569 2000 nt UTR 2 hits 310 1165  
-----1-----1-----

>ENSG00000176569 hs-mir-103 310 317  
AGCAGCAUUGUACAGGGCUAUGA&CAAUGCUAACAUCCCACUUAGCCACACCCUGCACAUGCUGCA  
(((((((((((((.....&.....)))))))))..)))). -27.20

>ENSG00000176569 hs-mir-103 1165 1172  
AGCAGCAUUGUACAGGGCUAUGA&CCCAGUCCCAAGGAAGGUGGGGCCCUAGGAUGCUGCA  
(((((((((((((.....&.....)))))))))..)))). -31.90

mir-103 ENSMUSG00000041059 3180 nt UTR 2 hits 1011 2999  
-----1-----1-----

>ENSMUSG00000041059 hs-mir-103 1011 1018  
AGCAGCAUUGUACAGGGCUAUGA&CCCCACACUAAGGAAGAUGGGGCCCCACCCCGUGGAUGCUGCA  
(((((((((((((.....&.....)))))))))..)))). -25.30

>ENSMUSG00000041059 hs-mir-103 2999 3006  
AGCAGCAUUGUACAGGGCUAUGA&AACCAGAACCGAAAAGGUAUGAGGCCACUCUAGGAUGCUGCUG  
(((((((((((((.....&.....)))))))))..)))). -  
26.70

mir-103 ENSRNOG00000000488 2018 nt UTR 2 hits 1009 1563  
-----1-----1-----

>ENSRNOG00000000488 hs-mir-103 1009 1016  
AGCAGCAUUGUACAGGGCUAUGA&CCCACGCUAGGGAAGAUGGGGCCCCCGCCCGUGGAUGCUGCA  
(((((((((((((.....&.....)))))))))..)))). -28.40

>ENSRNOG00000000488 hs-mir-103 1563 1570  
AGCAGCAUUGUACAGGGCUAUGA&CUGCCAGCCAUGAACACCUGUCAGGAAGAGCAAGAUGCUGCA

.((((((((((..((((((..(((((.&.....))))).))))).))))).))))). -23.24

miRNA: mir-106

Human predicted target: ENSG00000006062

Mouse predicted target: ENSMUSG00000020941

Rat predicted target: ENSRNOG00000003278

Hs Gene description: MITOGEN-ACTIVATED PROTEIN KINASE KINASE KINASE 14 (EC 2.7.1.37) (NF- KAPPA BETA-INDUCING KINASE) (SERINE/THREONINE PROTEIN KINASE NIK) (HSNIK). [Source:SWISSPROT;Acc:Q99558] NM\_003954

mir-106 ENSG00000006062 3508 nt UTR 2 hits 1008 1034

-----11-----

>ENSG00000006062 hs-mir-106 1008 1015  
AAAAGUGCUUACAGUGCAGGUAGC&CCUGCCCUGCCCCUGGCCAGAGGGUACUGCCGACGGCACUUUG  
.((((((((((..((((((..(((((.&.....))))).))))).))))).))))). -  
24.62

>ENSG00000006062 hs-mir-106 1034 1041  
AAAAGUGCUUACAGUGCAGGUAGC&CUGCCGACGGCACUUUGCACUCUGAUGACCUCAAAGCACUUUC  
.((((((((((..((((((..(((((.&.....))))).))))).))))).))))). -  
24.80

mir-106 ENSMUSG00000020941 2000 nt UTR 2 hits 815 841

-----11-----

>ENSMUSG00000020941 hs-mir-106 815 822  
AAAAGUGCUUACAGUGCAGGUAGC&AUCCAGCAUGGUGUGGCAAGGCAUUGCCAGCAGCAGCACUUUG  
.((((((((((..((((((..(((((.&.....))))).))))).))))).))))). -  
20.80

>ENSMUSG00000020941 hs-mir-106 841 848  
AAAAGUGCUUACAGUGCAGGUAGC&CCAGCAGCAGCACUUUGCACUCAGGUGACCUCAAAGCACUUUC  
.((((((((((..((((((..(((((.&.....))))).))))).))))).))))). -  
22.31

mir-106 ENSRNOG00000003278 3053 nt UTR 4 hits 667 693 1783 1809

-----11-----11-----

>ENSRNOG00000003278 hs-mir-106 667 674  
AAAAGUGCUUACAGUGCAGGUAGC&GCCACCCUCUGGGGGGUGGCAAGACACUGCCAGCAGCACUUUG  
.((((((((((..((((((..(((((.&.....))))).))))).))))).))))). -  
20.90

>ENSRNOG00000003278 hs-mir-106 693 700  
AAAAGUGCUUACAGUGCAGGUAGC&CUGCCAGCAGCACUUUGCACUCUGAUGACCUCAAAGCACUUUC  
.((((((((((..((((((..(((((.&.....))))).))))).))))).))))). -  
23.04

>ENSRNOG00000003278 hs-mir-106 1783 1790  
AAAAGUGCUUACAGUGCAGGUAGC&CAUGCCAGCCUCAUGGUGGCAAGACACUGCCAGCAGCACUUUG  
.((((((((((..((((((..(((((.&.....))))).))))).))))).))))). -  
20.90

>ENSRNOG00000003278 hs-mir-106 1809 1816



AAAAGUGCUUACAGUGCAGGUAGC&CUGCCAGCAGCACUUUGCACUCUGAUGACCUCAAGCACUUUC  
.((((((((((..(((((((((((((.&)))))).....)))))).....)))))))). -  
23.04

miRNA: mir-106

Human predicted target: ENSG00000049759

Mouse predicted target: ENSMUSG00000024589

Rat predicted target: ENSRNOG00000017610

Hs Gene description: UBIQUITIN-PROTEIN LIGASE NEDD4-LIKE; NEURAL PRECURSOR CELL EXPRESSED, DEVELOPMENTALLY DOWN-REGULATED GENE 4-LIKE; POTENTIAL EPITHELIAL SODIUM CHANNEL REGULATOR; HOMOLOG OF YEAST UBIQUITIN-PROTEIN LIGASE RSP5. [Source:RefSeq;Acc:NM\_015277]

mir-106 ENSG00000049759 3888 nt UTR 2 hits 47 1045

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

>ENSG00000049759 hs-mir-106 47 54  
AAAAGUGCUUACAGUGCAGGUAGC&CUCGGGGGUGGUUGUUCUUCAAGCAAGUUCUGCUUGCACUUUUG  
((((((((((..(((((((((((((.&.....)))))).....)))))).....)))))))). -  
19.70

>ENSG00000049759 hs-mir-106 1045 1052  
AAAAGUGCUUACAGUGCAGGUAGC&AACCAGUUUUUGUUGUAAAUGCACCAAUUCUGAAGGCACUUUA  
.((((((((((..(((((((((((((.&.....)))))).....)))))).....)))))))). -  
23.50

mir-106 ENSMUSG00000024589 2421 nt UTR 2 hits 48 1020

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

>ENSMUSG00000024589 hs-mir-106 48 55  
AAAAGUGCUUACAGUGCAGGUAGC&CGUCCGGGGCACUGCCCUUCCAGCAAGUCCAAGCGCACUUUUG  
((((((((((..(((((((((((((.&.....)))))).....)))))).....)))))))). -  
21.65

>ENSMUSG00000024589 hs-mir-106 1020 1027  
AAAAGUGCUUACAGUGCAGGUAGC&AACCUUCCUUUGCUGUAUCUGCGUCCCUUCUGAAGGCACUUUA  
.((((((((((..(((((((((((((.&.....)))))).....)))))).....)))))))). -  
26.60

mir-106 ENSRNOG00000017610 2000 nt UTR 2 hits 50 1018

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

>ENSRNOG00000017610 hs-mir-106 50 57  
AAAAGUGCUUACAGUGCAGGUAGC&GCGUCAGGGCACCGCCCUUCCAGCAAGGUCCGCGUGCACUUUUG  
((((((((((..(((((((((((((.&.....)))))).....)))))).....)))))))). -  
19.90

>ENSRNOG00000017610 hs-mir-106 1018 1025  
AAAAGUGCUUACAGUGCAGGUAGC&AACCUUUCUUUGCUGUAUCCUCGUCCCUUCUGAAGGCACUUUA  
.((((((((((..(((((((((((((.&.....)))))).....)))))).....)))))))). -  
22.90

miRNA: mir-106

Human predicted target: ENSG00000100784

Mouse predicted target: ENSMUSG00000021180

Rat predicted target: ENSRNOG00000004362

Hs Gene description: RIBOSOMAL PROTEIN S6 KINASE, 90KDA, POLYPEPTIDE 5; MITOGEN- AND STRESS-ACTIVATED PROTEIN KINASE 1; RIBOSOMAL PROTEIN S6 KINASE, 90KD, POLYPEPTIDE 5. [Source:RefSeq;Acc:NM\_004755] NM\_004755

mir-106 ENSG00000100784 3268 nt UTR 3 hits 757 1142 2357

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

-----1-----

>ENSG00000100784 hs-mir-106 757 764  
AAAAGUGCUUACAGUGCAGGUAGC&AUUAAGGUACAUGUCUCUCUGUUUUAAGUAAUUAUGCACUUUA  
.((((((((((..(((((((((.((((.&.....))))).))).....))))).))))). -  
18.16

>ENSG00000100784 hs-mir-106 1142 1149  
AAAAGUGCUUACAGUGCAGGUAGC&AAAUCCAGAAAGCAUAUUUUUAUAAACUUAUGCAGAGCACUUUUA  
(((((((((((.....(((((((((.&.....))))).))).....))))).))))). -  
20.20

>ENSG00000100784 hs-mir-106 2357 2364  
AAAAGUGCUUACAGUGCAGGUAGC&UCCUAUGCAGGCUGUGUAUUAAACAUACAGUGAAUUGCACUUUA  
.(((((((((((.....&.....))))).))).....))))). -  
19.35

mir-106 ENSMUSG00000021180 3662 nt UTR 2 hits 705 1081

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

-----

>ENSMUSG00000021180 hs-mir-106 705 712  
AAAAGUGCUUACAGUGCAGGUAGC&AUUAAGGUACAUGUCUCUUGGUUUUAUGUAAUAUGGCACUUUA  
.(((((((((((.....(((((((((.&.....))))).))).....))))).))))). -  
18.80

>ENSMUSG00000021180 hs-mir-106 1081 1088  
AAAAGUGCUUACAGUGCAGGUAGC&UUAAAUCCACAGAGCAUUUUUAUAAACUUAUGCAGAGCACUUUUA  
(((((((((((.....(((((((((.&.....))))).))).....))))).))))). -  
20.20

mir-106 ENSRNOG00000004362 2000 nt UTR 2 hits 720 1069

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

-----

>ENSRNOG00000004362 hs-mir-106 720 727  
AAAAGUGCUUACAGUGCAGGUAGC&GUUAAGGUACAUGUCUCUUGGUUUUAUGUAAACAUGGCACUUUA  
.(((((((((((.....(((((((((.&.....))))).))).....))))).))))). -  
19.10

>ENSRNOG00000004362 hs-mir-106 1069 1076  
AAAAGUGCUUACAGUGCAGGUAGC&CUUGACCCACACCGCAUUUUUAUAAACUUAUGCAGAGCACUUUUA  
(((((((((((.....(((((((((.&.....))))).))).....))))).))))). -  
20.73

miRNA: mir-106

Human predicted target: ENSG00000101412  
Mouse predicted target: ENSMUSG00000027490  
Rat predicted target: ENSRNOG00000016708  
Hs Gene description: TRANSCRIPTION FACTOR E2F1 (E2F-1) (RETINOBLASTOMA BINDING PROTEIN 3) (RBBP-3) (PRB-BINDING PROTEIN E2F-1) (PBR3) (RETINOBLASTOMA-ASSOCIATED PROTEIN 1) (RBAP-1).  
[Source:SWISSPROT;Acc:Q01094] NM\_005225  
mir-106 ENSG00000101412 2000 nt UTR 2 hits 387 980

-----1-----1-----  
-----  
>ENSG00000101412 hs-mir-106 387 394  
AAAAGUGCUUACAGUGCAGGUAGC&AUGAGUCCAUGUGUGCGCGUGGGGGGGCUCUAACUGCACUUUC  
.(((((((((((((.((((.(.....&.....)).)))))))).))))). -  
18.21

>ENSG00000101412 hs-mir-106 980 987  
AAAAGUGCUUACAGUGCAGGUAGC&CUGCCUCCCCACUGCUCUGCCCCACCCUCCAAUCUGCACUUUG  
.(((((((((((((.((((.(.....&.....)).)))))))).))))). -  
22.85

mir-106 ENSMUSG00000027490 2626 nt UTR 2 hits 470 985  
-----1-----1-----

-----  
>ENSMUSG00000027490 hs-mir-106 470 477  
AAAAGUGCUUACAGUGCAGGUAGC&AUGUGUGCGCAUUGGGGUGGGGUGGGCUCUAACUGCACUUUUG  
(((((((((((((.((((.(.....&.....)).)))))))).))))). -  
18.85

>ENSMUSG00000027490 hs-mir-106 985 992  
AAAAGUGCUUACAGUGCAGGUAGC&AGUGCUCUCUGCUGUCCUCCCCACCCUCCAGUCUGCACUUUG  
.(((((((((((((.((((.(.....&.....)).)))))))).))))). -  
22.20

mir-106 ENSRNOG00000016708 2000 nt UTR 2 hits 383 902  
-----1-----1-----

-----  
>ENSRNOG00000016708 hs-mir-106 383 390  
AAAAGUGCUUACAGUGCAGGUAGC&CAUGUGUGCGCAUUGGGGUGGGGUGGGCUCUAACAGCACUUUUG  
(((((((((((((.((((.(.....&.....)).)))))))).))))). -  
19.70

>ENSRNOG00000016708 hs-mir-106 902 909  
AAAAGUGCUUACAGUGCAGGUAGC&UGGAGCGCUCCACUGCCUCCUCCACUGGCCAGUCUGCACUUUG  
.(((((((((((((.((((.(.....&.....)).)))))))).))))). -  
23.40

miRNA: mir-106  
Human predicted target: ENSG00000103479  
Mouse predicted target: ENSMUSG00000031666  
Rat predicted target: ENSRNOG00000012153

Hs Gene description: RETINOBLASTOMA-LIKE PROTEIN 2 (130 KDA  
RETINOBLASTOMA-ASSOCIATED PROTEIN) (PRB2) (P130) (RBR-2).

[Source:SWISSPROT;Acc:Q08999] NM\_005611

mir-106 ENSG00000103479 2000 nt UTR 2 hits 634 695

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

>ENSG00000103479 hs-mir-106 634 641  
AAAAGUGCUUACAGUGCAGGUAGC&GUGUGCAAUGUCUGAGUGAACCUGUAUAAGUGGAGGCACUUUA  
.(((((((((((((.(((((((((((.((&.....)))))))).)))))))).)))))))). -  
26.40

>ENSG00000103479 hs-mir-106 695 702  
AAAAGUGCUUACAGUGCAGGUAGC&UUUUGUAACCCAGAUUUUGCUGUAUAUUUGUGAUAGCACUUUC  
.(((((((((((((((.(((((((((((.....&.....)))))))).)))))))).)))))))). -  
21.50

mir-106 ENSMUSG00000031666 2565 nt UTR 2 hits 690 751

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

>ENSMUSG00000031666 hs-mir-106 690 697  
AAAAGUGCUUACAGUGCAGGUAGC&GCGUGCAAUGUCUGAAGGAACCUGUGUAUUUGGUGGCACUUUA  
.(((((((((((((.(((((((((((...&.....)))))))).)))))))).)))))))). -  
25.70

>ENSMUSG00000031666 hs-mir-106 751 758  
AAAAGUGCUUACAGUGCAGGUAGC&CAUUGUGACCCAGGGUUUGCUGUAUAUUUAUGAUGGCACUUUC  
.(((((((((((((((.(((((((((((.((&.....)))))))).)))))))).)))))))). -  
20.70

mir-106 ENSRNOG00000012153 3206 nt UTR 4 hits 538 599 1804 1865

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

>ENSRNOG00000012153 hs-mir-106 538 545  
AAAAGUGCUUACAGUGCAGGUAGC&GCCGUGCAUGUCUGAGUGAACCUGUGUACUUGGUGGCACUUUA  
.(((((((((((((.(((((((((((.((&.....)))))))).)))))))).)))))))). -  
24.40

>ENSRNOG00000012153 hs-mir-106 599 606  
AAAAGUGCUUACAGUGCAGGUAGC&CAUUGUGACCCAGAUUUUGCUGUAUAUUUAUGGUGGCACUUUC  
.(((((((((((((((.(((((((((((.....&.....)))))))).)))))))).)))))))). -  
20.20

>ENSRNOG00000012153 hs-mir-106 1804 1811  
AAAAGUGCUUACAGUGCAGGUAGC&GCCGUGCAUGUCUGAGUGAACCUGUGUACUUGGUGGCACUUUA  
.(((((((((((((.(((((((((((.((&.....)))))))).)))))))).)))))))). -  
24.40

>ENSRNOG00000012153 hs-mir-106 1865 1872  
AAAAGUGCUUACAGUGCAGGUAGC&CAUUGUGACCCAGAUUUUGCUGUAUAUUUAUGGUGGCACUUUC  
.(((((((((((((((.(((((((((((.....&.....)))))))).)))))))).)))))))). -  
20.20

miRNA: mir-106

Human predicted target: ENSG00000104517

Mouse predicted target: ENSMUSG00000022290  
Rat predicted target: ENSRNOG00000006816  
Hs Gene description: UBIQUITIN--PROTEIN LIGASE EDD (EC 6.3.2.-)  
(HYPERPLASTIC DISCS PROTEIN HOMOLOG) (HHYD) (PROGESTIN INDUCED PROTEIN).  
[Source:SWISSPROT;Acc:O95071]

mir-106 ENSG00000104517 4029 nt UTR 2 hits 626 793

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

>ENSG00000104517 hs-mir-106 626 633  
AAAAGUGCUUACAGUGCAGGUAGC&AAUAUUUUGCAUGUAAUUUGCUCAUUUGAGUGAGGGCACUUUUU  
((((((((((..((..(((((((((&.....)))))))).)))).)))). -  
22.60

>ENSG00000104517 hs-mir-106 793 800  
AAAAGUGCUUACAGUGCAGGUAGC&UACUAAGGUUUUCAGUUAUGUAAACUCAGCCUGGGCACUUUC  
..((((((((((..((..(((((((((&.....)))))))).)))).).....)))). -  
18.70

mir-106 ENSMUSG00000022290 2965 nt UTR 2 hits 641 793

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

>ENSMUSG00000022290 hs-mir-106 641 648  
AAAAGUGCUUACAGUGCAGGUAGC&UAAUAGUUUGCAUGUAAUGUGUUCUUUGAGAGAGGCACUUUUC  
((((((((((((((..((..(((((((((&.....)))))))).)))).).....)))). -  
20.01

>ENSMUSG00000022290 hs-mir-106 793 800  
AAAAGUGCUUACAGUGCAGGUAGC&GAUGUCUGUACUAAGGUUAUGUGUACUCAGCCUGGGCACUUUC  
..((((((((((..((..(((((((((&.....)))))))).)))).).....)))). -  
25.80

mir-106 ENSRNOG00000006816 2405 nt UTR 2 hits 631 775

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

>ENSRNOG00000006816 hs-mir-106 631 638  
AAAAGUGCUUACAGUGCAGGUAGC&UGAUUUUUACAUGUAAUGUGUUCUUUGAGAGAGGCACUUUUC  
((((((((((((((..((..(((((((((&.....)))))))).)))).).....)))). -  
20.01

>ENSRNOG00000006816 hs-mir-106 775 782  
AAAAGUGCUUACAGUGCAGGUAGC&CAACCAGACAUCUGUAUGAAGGUGACUCAGCCUGGGCACUUUC  
..((((((((((..((..(((((((((&.....)))))))).)))).).....)))). -  
21.23

miRNA: mir-106  
Human predicted target: ENSG00000111540  
Mouse predicted target: ENSMUSG00000000711  
Rat predicted target: ENSRNOG000000006130  
Hs Gene description: RAS-RELATED PROTEIN RAB-5B.  
[Source:SWISSPROT;Acc:P35239]

mir-106 ENSG00000111540 4491 nt UTR 2 hits 145 964

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

>ENSG00000111540 hs-mir-106 145 152  
AAAAGUGCUUACAGUGCAGGUAGC&GCUCCAAGGGCUGCCUCCUGACAGCUCCGUCAUGGCACUUUUU  
(((((((((.((.(.(((((((((&.....)))))))).)))).)))). -  
25.61

>ENSG00000111540 hs-mir-106 964 971  
AAAAGUGCUUACAGUGCAGGUAGC&GCCUCAGCCCCAGCCACCAUAUACCCCUGCAGUUUGCACUUUA  
(((((((((.((.(.((((((((.....&.....)))))))).)))).)))). -  
24.60

mir-106 ENSMUSG00000000711 2009 nt UTR 2 hits 144 937

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

>ENSMUSG00000000711 hs-mir-106 144 151  
AAAAGUGCUUACAGUGCAGGUAGC&GCUCCAAGGGCUGCCUCCUGACAGCUCCGUCAUGGCACUUUUU  
(((((((((.((.(.(((((((((&.....)))))))).)))).)))). -  
25.61

>ENSMUSG00000000711 hs-mir-106 937 944  
AAAAGUGCUUACAGUGCAGGUAGC&UGGCCUUAACCCCAGACACCAUGCCCCUGCAGUUUGCACUUUA  
(((((((((.((.(.(((((((((.(&.....)))))))).)))).)))). -  
24.60

mir-106 ENSRNOG000000006130 3643 nt UTR 3 hits 151 937 1884

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

>ENSRNOG000000006130 hs-mir-106 151 158  
AAAAGUGCUUACAGUGCAGGUAGC&GCUCCAAGGGCUGCCUCCUGACAGCUCCGUCAUGGCACUUUUU  
(((((((((.((.(.(((((((((&.....)))))))).)))).)))). -  
25.61

>ENSRNOG000000006130 hs-mir-106 937 944  
AAAAGUGCUUACAGUGCAGGUAGC&UGGCCUUAACCCCAGACACCAUGCCCCUGCAGUUUGCACUUUA  
(((((((((.((.(.(((((((((.(&.....)))))))).)))).)))). -  
24.60

>ENSRNOG000000006130 hs-mir-106 1884 1891  
AAAAGUGCUUACAGUGCAGGUAGC&UGGCCUUAACCCCAGACACCAUGCCCCUGCAGUUUGCACUUUA  
(((((((((.((.(.(((((((((.(&.....)))))))).)))).)))). -  
24.60

miRNA: mir-106

Human predicted target: ENSG00000117289

Mouse predicted target: ENSMUSG00000038393

Rat predicted target: ENSRNOG00000021201

Hs Gene description: THIOREDOXIN INTERACTING PROTEIN; UPREGULATED BY 1,25-DIHYDROXYVITAMIN D-3. [Source:RefSeq;Acc:NM\_006472] NM\_006472

mir-106 ENSG00000117289 3417 nt UTR 2 hits 796 1193

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

>ENSG00000117289 hs-mir-106 796 803  
AAAAGUGCUUACAGUGCAGGUAGC&AAGUCCUUGGAAUUGAUUCAAGGUGAUGUUCUAGCACUUUA  
.(((((((((((((...(((...(((.&.....))))))...)))))))). -  
19.00  
>ENSG00000117289 hs-mir-106 1193 1200  
AAAAGUGCUUACAGUGCAGGUAGC&AGCUGCCAGCACUUGGUCAGUCACUCUCAGCCAUAGCACUUUG  
.(((((((((((((...(((...(((.&.....))))))...)))))))). -  
28.50  
mir-106 ENSMUSG00000038393 3337 nt UTR 2 hits 712 1130  
-----1-----1-----

>ENSMUSG00000038393 hs-mir-106 712 719  
AAAAGUGCUUACAGUGCAGGUAGC&AACCCUUGGAAUUGAUUCAAGGUGAUGUUCUAGCACUUUA  
.(((((((((((((...(((...(((.&.....))))))...)))))))). -  
19.00  
>ENSMUSG00000038393 hs-mir-106 1130 1137  
AAAAGUGCUUACAGUGCAGGUAGC&GCCUCAGCCUGGCUCGGAAGCUCACUAAGCCUAGCACUUUG  
.(((((((((((((...(((...(((.&.....))))))...)))))))). -  
20.75  
mir-106 ENSRNOG00000021201 2072 nt UTR 2 hits 539 981  
-----1-----1-----

>ENSRNOG00000021201 hs-mir-106 539 546  
AAAAGUGCUUACAGUGCAGGUAGC&GACUCCUAGAAUUGAUUCAAGGUGAUGUUCUUGGCACUUUA  
.(((((((((((((...(((...(((.&.....))))))...)))))))). -  
19.00  
>ENSRNOG00000021201 hs-mir-106 981 988  
AAAAGUGCUUACAGUGCAGGUAGC&GUGGCCUCUAGCACUCCAAACUACUCCGCCUAGCACUUUG  
.(((((((((((((...(((...(((.&.....))))))...)))))))). -  
21.95

miRNA: mir-106  
Human predicted target: ENSG00000119508  
Mouse predicted target: ENSMUSG00000028341  
Rat predicted target: ENSRNOG00000005964  
Hs Gene description: NUCLEAR HORMONE RECEPTOR NOR-1 (NEURON-DERIVED ORPHAN RECEPTOR 1) (MITOGEN INDUCED NUCLEAR ORPHAN RECEPTOR).  
[Source:SWISSPROT;Acc:Q92570] NM\_173199  
mir-106 ENSG00000119508 5024 nt UTR 2 hits 284 1578  
-----1-----1-----

>ENSG00000119508 hs-mir-106 284 291  
AAAAGUGCUUACAGUGCAGGUAGC&AGUUCAUGAGGGUUUUCUAAAGAAUUGCUAACAAAGCACUUUUG  
(((((((((((((...(((...(((.&.....))))))...)))))))). -  
20.00  
>ENSG00000119508 hs-mir-106 1578 1585

AAAAGUGCUUACAGUGCAGGUAGC&UUCAUUUGCAGUGACUUUUAAGGCAGUACUGUUUAGCACUUUG  
.(((((((((((((.(((((((((((((((.(&.....)))))))).)))))))). -  
24.30

mir-106 ENSMUSG00000028341 2000 nt UTR 2 hits 291 1650

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

>ENSMUSG00000028341 hs-mir-106 291 298  
AAAAGUGCUUACAGUGCAGGUAGC&AGUUCAUGAGGCUUUUCUAAGAAAUUGCUGACAAAGCACUUUUG  
(((((((((((((.(((((((((((((((.(&.....)))))))).)))))))). -  
20.00

>ENSMUSG00000028341 hs-mir-106 1650 1657  
AAAAGUGCUUACAGUGCAGGUAGC&UUCACUUGCAGUGACCUUUAAGGCAGCACUGUUUAGCACUUUG  
.(((((((((((((.(((((((((((((((.(&.....)))))))).)))))))). -  
29.00

mir-106 ENSRNOG00000005964 3812 nt UTR 2 hits 290 1599

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

>ENSRNOG00000005964 hs-mir-106 290 297  
AAAAGUGCUUACAGUGCAGGUAGC&AGUUCAUGAGGCUUUUCUAAGAAAUUGCUGACGAAGCACUUUUG  
(((((((((((((.(((((((((((((((.(&.....)))))))).)))))))). -  
21.10

>ENSRNOG00000005964 hs-mir-106 1599 1606  
AAAAGUGCUUACAGUGCAGGUAGC&UUUGUUUGCAGUGACCUUUAAGGCAGCACUGUUUAGCACUUUG  
.(((((((((((((.(((((((((((((((.(&.....)))))))).)))))))). -  
29.00

miRNA: mir-106  
Human predicted target: ENSG00000124201  
Mouse predicted target: ENSMUSG00000039501  
Rat predicted target: ENSRNOG00000008194  
Hs Gene description: NM\_021035

mir-106 ENSG00000124201 2000 nt UTR 3 hits 484 979 1324

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

>ENSG00000124201 hs-mir-106 484 491  
AAAAGUGCUUACAGUGCAGGUAGC&CAUUUGUUUCUAGAUUUACCCCUGCGCUAGAGUAAGCACUUUA  
.(((((((((((((.(((((((((((((((.(&.....)))))))).)))))))). -  
32.70

>ENSG00000124201 hs-mir-106 979 986  
AAAAGUGCUUACAGUGCAGGUAGC&GUCGUCAUUAAGGAGUGACCCCUUUCUGUAACCUGCACUUUG  
.(((((((((((((.(((((((((((((((.(&.....)))))))).)))))))). -  
21.50

>ENSG00000124201 hs-mir-106 1324 1331  
AAAAGUGCUUACAGUGCAGGUAGC&CCUAUGUAUGCAUUUCCUUUUUUUGUCUUUACUAUGCACUUUA  
.(((((((((((((.(((((((((((((((.(&.....)))))))).)))))))). -  
17.80



mir-106 ENSMUSG00000039501 2926 nt UTR 3 hits 164 886 2587  
-----1-----1-----  
-----1-----

>ENSMUSG00000039501 hs-mir-106 164 171  
AAAAGUGCUUACAGUGCAGGUAGC&ACAUGUGAUUCUAUAUGUACCCUGCGCUAGAGUAAGCACUUUA  
.((((((((((((((((((((((((((..(&.....))))))))))..))))))..)))))).. -  
32.80

>ENSMUSG00000039501 hs-mir-106 886 893  
AAAAGUGCUUACAGUGCAGGUAGC&UUAUUGUAUGCAUUUCCUUUUUUUGUCUUUACUAUGCACUUUA  
.((((((((.....((((((..(&.....))))..))))..))))..)))).. -  
17.80

>ENSMUSG00000039501 hs-mir-106 2587 2594  
AAAAGUGCUUACAGUGCAGGUAGC&GAGCGAGCAUGGACAAGGGUGCUUUCGUGUGAGCGGCACUUUA  
.((((((((((((((((((((((((((..(&.....))))..))))..))))..)))).. -  
20.40

mir-106 ENSRNOG00000008194 2000 nt UTR 3 hits 165 867 1140  
-----1-----1-----1-----  
-----

>ENSRNOG00000008194 hs-mir-106 165 172  
AAAAGUGCUUACAGUGCAGGUAGC&ACAUGUGAUUCUAGAUGUACCCUGCGCUAGAGUAAGCACUUUA  
.((((((((((((((((((((((((((..(&.....))))))))))..))))))..)))))).. -  
32.80

>ENSRNOG00000008194 hs-mir-106 867 874  
AAAAGUGCUUACAGUGCAGGUAGC&CUUAUGUAUGCAUUUCCUUUUUUUGUCUUUACUAUGCACUUUA  
.((((((((.....((((((..(&.....))))..))))..))))..)))).. -  
17.80

>ENSRNOG00000008194 hs-mir-106 1140 1147  
AAAAGUGCUUACAGUGCAGGUAGC&AGACGAUAUACCCUGUGCCUAUUCUAAAAGUUCAGCACUUUA  
.((((((((((((((((((((((((((..(&.....))))..))))..))))..)))).. -  
20.72

miRNA: mir-106  
Human predicted target: ENSG00000124209  
Mouse predicted target: ENSMUSG00000027519  
Rat predicted target: ENSRNOG00000005762  
Hs Gene description: RAS-RELATED PROTEIN RAB-22A (RAB-22).  
[Source:SWISSPROT;Acc:Q9UL26] NM\_020673

mir-106 ENSG00000124209 3680 nt UTR 3 hits 341 544 3126  
-----1-----1-----  
-----1-----

>ENSG00000124209 hs-mir-106 341 348  
AAAAGUGCUUACAGUGCAGGUAGC&CAAGAUUUUAUGUAACAUUUGUAAAGGGAAAAUUAGCACUUUUG  
((((((((((((((((((((((((((..(&.....))))))))))..))))..)))).. -  
18.80

>ENSG00000124209 hs-mir-106 544 551  
AAAAGUGCUUACAGUGCAGGUAGC&CUGAUGGAAUGAUUUCUUCUGCCAUCUCUAAAGCACUUUUC

```

((((((((((..((..(((((.&.....))))))..)).)))))))). -
21.40
>ENSG00000124209 hs-mir-106 3126 3133
AAAAGUGCUUACAGUGCAGGUAGC&GAUGUUGUUUGAAGUCCUGUUUCCAUUGUGUACGCACUUUC
.((((((((((..(((((.&.....))))))..)).)))))))). -
22.60
mir-106 ENSMUSG00000027519 5553 nt UTR 3 hits 321 468 2105
-----1-----1-----
-----1-----
-----
-
>ENSMUSG00000027519 hs-mir-106 321 328
AAAAGUGCUUACAGUGCAGGUAGC&GUCAGGAUUUCAUGUGUUAUUUGUAAGGGAAAUGAGCACUUUC
.((((((((((..(((((.&.....))))))..)).)))))))). -
24.50
>ENSMUSG00000027519 hs-mir-106 468 475
AAAAGUGCUUACAGUGCAGGUAGC&UGGGUGUUCUAGGACAGCUUCCGCCAUCUCUAAAGCACUUUG
.((((((((((..(((((.&.....))))))..)).)))))))). -
21.40
>ENSMUSG00000027519 hs-mir-106 2105 2112
AAAAGUGCUUACAGUGCAGGUAGC&UUCUUUUUAAGAACGCAUAUGAAAAACAGUCAUAGCACUUUUU
((((((((((..(((((.&.....))))))..)).)))))))). -
15.40
mir-106 ENSRNOG00000005762 2966 nt UTR 4 hits 310 433 1220 1367
-----1-----1-----1-----1-----
-----
>ENSRNOG00000005762 hs-mir-106 310 317
AAAAGUGCUUACAGUGCAGGUAGC&AAUCAGGAUUCAUGUAUCAUUGUAAAGGGAAACAAGCACUUUC
.((((((((((..(((((.&.....))))))..)).)))))))). -
17.50
>ENSRNOG00000005762 hs-mir-106 433 440
AAAAGUGCUUACAGUGCAGGUAGC&GGGAAGUGAUCACAAGUAGAUGGGUGGUCUCUAAAGCACUUUG
.((((((((((..(((((.&.....))))))..)).)))))))). -
16.00
>ENSRNOG00000005762 hs-mir-106 1220 1227
AAAAGUGCUUACAGUGCAGGUAGC&AAUCAGGAUUCAUGUAUCAUUGUAAAGGGAAACAAGCACUUUC
.((((((((((..(((((.&.....))))))..)).)))))))). -
17.50
>ENSRNOG00000005762 hs-mir-106 1367 1374
AAAAGUGCUUACAGUGCAGGUAGC&UGGAUGUCCUGGGACAGUUCUCACCGUCUCUAAAGCACUUUG
.((((((((((..(((((.&.....))))))..)).)))))))). -
19.70

```

```

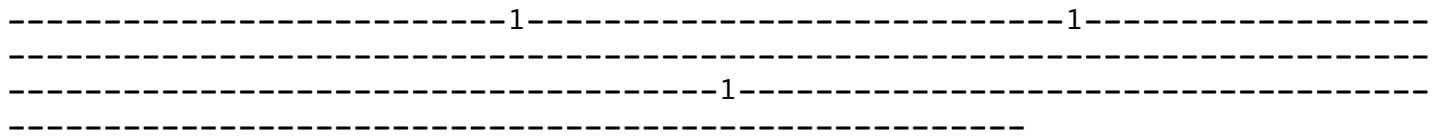
miRNA: mir-106
Human predicted target: ENSG00000127152
Mouse predicted target: ENSMUSG00000048251
Rat predicted target: ENSRNOG00000005776

```

Hs Gene description: B-CELL CLL/LYMPHOMA 11B ISOFORM 2; B-CELL LYMPHOMA/LEUKAEMIA 11B; ZINC FINGER PROTEIN HRIT1 ALPHA.

[Source:RefSeq;Acc:NM\_022898] NM\_138576

mir-106 ENSG00000127152 6864 nt UTR 3 hits 658 1376 4626

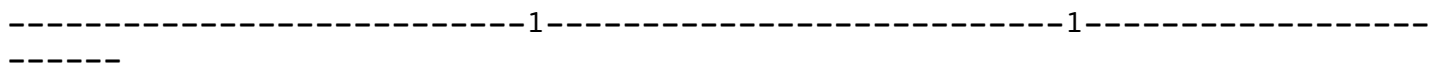


>ENSG00000127152 hs-mir-106 658 665  
AAAAGUGCUUACAGUGCAGGUAGC&UGGAUGUACAGCGGAUAACAAUCUUUCAAGUCGUAGCACUUUG  
.((((((((.....((.....&.....)))))).)).....)))). -  
15.90

>ENSG00000127152 hs-mir-106 1376 1383  
AAAAGUGCUUACAGUGCAGGUAGC&ACUGUUAAGAUUAGACAUUUGAAUUCUGUUGACCCGCACUUUA  
.((((((((.....((.....&.....)))))).)).....)))). -  
18.10

>ENSG00000127152 hs-mir-106 4626 4633  
AAAAGUGCUUACAGUGCAGGUAGC&UAUUGCUUGGUAAUUGUGCUCUGUUUAAGAAACAGGCACUUUUU  
((((((((.....((.....&.....)))))).)).....)))). -  
22.10

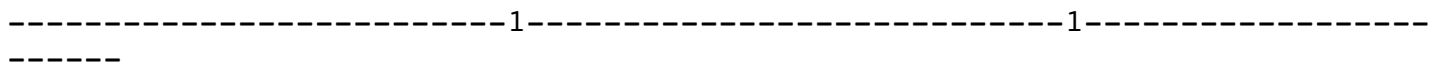
mir-106 ENSMUSG00000048251 2000 nt UTR 2 hits 679 1393



>ENSMUSG00000048251 hs-mir-106 679 686  
AAAAGUGCUUACAGUGCAGGUAGC&UGGAUGUACAGCGGAUUACAAUCUUUAAAAUUGUAGCACUUUG  
.((((((((.....((.....&.....)))))).)).....)))). -  
19.50

>ENSMUSG00000048251 hs-mir-106 1393 1400  
AAAAGUGCUUACAGUGCAGGUAGC&CUUGUUGGGAAUUGAUGUUUGAAUUCUGUUGACCCGCACUUUA  
.((((((((.....((.....&.....)))))).)).....)))). -  
17.80

mir-106 ENSRNOG00000005776 2000 nt UTR 2 hits 673 1379



>ENSRNOG00000005776 hs-mir-106 673 680  
AAAAGUGCUUACAGUGCAGGUAGC&UGGAUGUACAGCGGAUUACAAUCUUUAAAAUUGUAGCACUUUG  
.((((((((.....((.....&.....)))))).)).....)))). -  
19.50

>ENSRNOG00000005776 hs-mir-106 1379 1386  
AAAAGUGCUUACAGUGCAGGUAGC&CUUGUUGGGAAUUGAUGUUUGAAUUCUGUUGACCCGCACUUUA  
.((((((((.....((.....&.....)))))).)).....)))). -  
17.80

miRNA: mir-106  
Human predicted target: ENSG00000149126  
Mouse predicted target: ENSMUSG00000024695  
Rat predicted target: ENSRNOG00000012524

Hs Gene description: ZINC FINGER PROTEIN 91 ISOFORM 1.

[Source:RefSeq;Acc:NM\_053023]

mir-106 ENSG00000149126 5340 nt UTR 2 hits 504 803

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

>ENSG00000149126 hs-mir-106 504 511  
AAAAGUGCUUACAGUGCAGGUAGC&GAAUUCUAAUCUCUGGAGGCUGGCAGCUUGACUUGGCACUUUA  
.((((((((...(((.((((.((&.....)).)))))))).)))))))). -  
23.30

>ENSG00000149126 hs-mir-106 803 810  
AAAAGUGCUUACAGUGCAGGUAGC&CGAUGAGAAAAGUCCCAGGCUAAUGGCAGAAAUUUGCACUUUG  
.((((((((.....(((.((((.((&.....)).)))))))).)))))))). -  
20.62

mir-106 ENSMUSG00000024695 2110 nt UTR 2 hits 468 754

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

>ENSMUSG00000024695 hs-mir-106 468 475  
AAAAGUGCUUACAGUGCAGGUAGC&UAAUUCUAUUUUCGAGGCUGGCAGCUUGACUUGGCACUUUA  
.((((((((...(((.((((.((&.....)).)))))))).)))))))). -  
23.30

>ENSMUSG00000024695 hs-mir-106 754 761  
AAAAGUGCUUACAGUGCAGGUAGC&CAGUGAGAAAAGUCCCAGGCUAAUGGCAGAAAUUUGCACUUUG  
.((((((((.....(((.((((.((&.....)).)))))))).)))))))). -  
20.62

mir-106 ENSRNOG00000012524 2000 nt UTR 2 hits 485 778

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

>ENSRNOG00000012524 hs-mir-106 485 492  
AAAAGUGCUUACAGUGCAGGUAGC&UAAUUCUAUUUUCGAGGCUGGCAGCUUAAACUUGGCACUUUA  
.((((((((.....(((.(.(.(((.((&.....)).)))))))).)))))))). -  
21.42

>ENSRNOG00000012524 hs-mir-106 778 785  
AAAAGUGCUUACAGUGCAGGUAGC&CAGUGAGAAAAGUCCCAGGCUAAUGGCAGAAAUUUGCACUUUG  
.((((((((.....(((.((((.((&.....)).)))))))).)))))))). -  
20.62

miRNA: mir-106

Human predicted target: ENSG00000157851

Mouse predicted target: ENSMUSG00000029168

Rat predicted target: ENSRNOG00000008996

Hs Gene description: DIHYDROPYRIMIDINASE RELATED PROTEIN-5 (DRP-5) (ULIP6 PROTEIN) (COLLAPSIN RESPONSE MEDIATOR PROTEIN-5) (CRMP-5).

[Source:SWISSPROT;Acc:Q9BPU6]

mir-106 ENSG00000157851 3205 nt UTR 2 hits 185 389

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

>ENSG00000157851 hs-mir-106 185 192  
AAAAGUGCUUACAGUGCAGGUAGC&AAGUGAUUCACUGUGCUUCGAGCCAACUCUAACAGGCACUUUG  
.((((((((((...((...((((&.....))))))....))..))....)))))))). -  
19.10

>ENSG00000157851 hs-mir-106 389 396  
AAAAGUGCUUACAGUGCAGGUAGC&GCCCUGCCCCUGGCUGACUGGCCAGUUGCCCAGAGCACUUUA  
.((((((((((...((...((((&.....))))))....))....)))))))). -  
24.03

mir-106 ENSMUSG00000029168 4649 nt UTR 2 hits 196 400  
-----1-----1-----  
-----

>ENSMUSG00000029168 hs-mir-106 196 203  
AAAAGUGCUUACAGUGCAGGUAGC&CGUGAUUCACGGGGCUUUGAUCCACCCCUAACAAGGCACUUUG  
.((((((((((...((...(((.....&.....))))))....))..))....)))))))). -  
17.80

>ENSMUSG00000029168 hs-mir-106 400 407  
AAAAGUGCUUACAGUGCAGGUAGC&CUCUGCCUGCUGCCCACCCACACAGGUGUCCAGAGCACUUUA  
.((((((((((...((...((((&.....))))))....))....))....)))))))). -  
24.70

mir-106 ENSRNOG00000008996 5030 nt UTR 2 hits 192 395  
-----1-----1-----  
-----

>ENSRNOG00000008996 hs-mir-106 192 199  
AAAAGUGCUUACAGUGCAGGUAGC&CAUGAUUCACGGGGCUUUGAUCCACCCCUAACAAGGCACUUUG  
.((((((((((...((...(((.....&.....))))))....))..))....)))))))). -  
17.80

>ENSRNOG00000008996 hs-mir-106 395 402  
AAAAGUGCUUACAGUGCAGGUAGC&CUCUGCCUGCUGCCCAACCAGACAGGUGUCCAGAGCACUUUA  
.((((((((((...((...((((&.....))))))....))....))....)))))))). -  
23.30

miRNA: mir-106  
Human predicted target: ENSG00000166090  
Mouse predicted target: ENSMUSG00000040770  
Rat predicted target: ENSRNOG00000016804  
Hs Gene description: INTERLEUKIN-17E PRECURSOR (IL-17E).  
[Source:SWISSPROT;Acc:Q9H293] NM\_172314

mir-106 ENSG00000166090 2523 nt UTR 2 hits 325 1862  
-----1-----  
1-----

>ENSG00000166090 hs-mir-106 325 332  
AAAAGUGCUUACAGUGCAGGUAGC&CUUUUCCAUCCCCUGCUACCCUGGCCAGCACAGGCACUUUC  
.((((((((((...((...((((&.....))))))....))....)))))))). -  
25.10

>ENSG00000166090 hs-mir-106 1862 1869

AAAAGUGCUUACAGUGCAGGUAGC&GUCUAACUAUCAAAAAGGGCAGACUCCUGCAACUGCACUUUA  
.((((((((.....((((((.(.&.....)))))))).))))). -  
24.20

mir-106 ENSMUSG00000040770 2475 nt UTR 3 hits 162 175 322

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

>ENSMUSG00000040770 hs-mir-106 162 169  
AAAAGUGCUUACAGUGCAGGUAGC&CAAGAUGGAGGACUUGGGGAGAAACUCUGACUUUUGCACUUUUU  
((((((((.....((((((.(.&.....)))))))).))))). -  
18.70

>ENSMUSG00000040770 hs-mir-106 175 182  
AAAAGUGCUUACAGUGCAGGUAGC&UUGGGGAGAAACUCUGACUUUUGCACUUUUUGGAAGCACUUUUG  
((((((((.....((((((.(.&.....)))))))).))))). -  
24.60

>ENSMUSG00000040770 hs-mir-106 322 329  
AAAAGUGCUUACAGUGCAGGUAGC&CUCCUUUCCCCUGAAUCCCCAACUCCUGGCACAGGCACUUUC  
.((((((((.....((((((.(.&.....)))))))).))))). -  
23.50

mir-106 ENSRNOG00000016804 2003 nt UTR 3 hits 170 183 332

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

>ENSRNOG00000016804 hs-mir-106 170 177  
AAAAGUGCUUACAGUGCAGGUAGC&CAAGAUGGAGGACUUGGGGAGAAACUCUGACUUUUGCACUUUUU  
((((((((.....((((((.(.&.....)))))))).))))). -  
18.70

>ENSRNOG00000016804 hs-mir-106 183 190  
AAAAGUGCUUACAGUGCAGGUAGC&UUGGGGAGAAACUCUGACUUUUGCACUUUUUAAAAGCACUUUUG  
((((((((.....((((((.(.&.....)))))))).))))). -  
23.50

>ENSRNOG00000016804 hs-mir-106 332 339  
AAAAGUGCUUACAGUGCAGGUAGC&UCUUCUUUCCUCUGAACCCCCAGCCAGCACUGGCACUUUC  
.((((((((.....((((((.(.&.....)))))))).))))). -  
23.40

miRNA: mir-106

Human predicted target: ENSG00000168090

Mouse predicted target: ENSMUSG00000019494

Rat predicted target: ENSRNOG00000001346

Hs Gene description: COP9 SUBUNIT 6 (MOV34 HOMOLOG, 34 KD).

[Source:RefSeq;Acc:NM\_006833] NM\_006833

mir-106 ENSG00000168090 2118 nt UTR 2 hits 881 2041

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

>ENSG00000168090 hs-mir-106 881 888  
AAAAGUGCUUACAGUGCAGGUAGC&CCCCAGUGUCUAUACUGGGGCCUGGCAGGGAGAUGCACUUUA  
.((((((((.....((((((.(.&.....)))))))).))))). -  
22.60

>ENSG00000168090 hs-mir-106 2041 2048  
AAAAGUGCUUACAGUGCAGGUAGC&CAGUAGGUUGGGUAAUCACACUACCUGCACGAACAGCACUUUG  
.((((((((.....(((((((((((&.....)))))))))).....)))))))). -  
34.00

mir-106 ENSMUSG00000019494 2107 nt UTR 2 hits 1713 1924  
-----1-----  
--1-----

>ENSMUSG00000019494 hs-mir-106 1713 1720  
AAAAGUGCUUACAGUGCAGGUAGC&CAGUAGGUCAGGUAAUUCACUACCUGCACGAACAGCACUUUG  
.((((((((.....(((((((((((&.....)))))))))).....)))))))). -  
34.00

>ENSMUSG00000019494 hs-mir-106 1924 1931  
AAAAGUGCUUACAGUGCAGGUAGC&CGGUAGCACAGAGAGGACCACUAUCUGCACUGUCAGCACUUUA  
.((((((((.....(((((((((((&.....)))))))))).....)))))))). -  
38.00

mir-106 ENSRNOG00000001346 2091 nt UTR 2 hits 1504 1711  
-----1-----1-----  
-----

>ENSRNOG00000001346 hs-mir-106 1504 1511  
AAAAGUGCUUACAGUGCAGGUAGC&GCAGUAGGUCAGGCAAUGCACUACCUGCACGAACAGCACUUUG  
.((((((((.....(((((((((((&.....)))))))))).....)))))))). -  
34.00

>ENSRNOG00000001346 hs-mir-106 1711 1718  
AAAAGUGCUUACAGUGCAGGUAGC&CGGUAGCACAGAGAGGACCACUAUCUGCACUGUCAGCACUUUA  
.((((((((.....(((((((((((&.....)))))))))).....)))))))). -  
38.00

miRNA: mir-106  
Human predicted target: ENSG00000175142  
Mouse predicted target: ENSMUSG00000033809  
Rat predicted target: ENSRNOG00000001712  
Hs Gene description: DOLICHYL-P-MAN:MAN(5)GLCNAC(2)-PP-DOLICHYL  
MANNOSYLTRANSFERASE (EC 2.4.1.-) (DOL-P-MAN DEPENDENT ALPHA(1-3)-  
MANNOSYLTRANSFERASE) (NOT56-LIKE PROTEIN). [Source:SWISSPROT;Acc:Q92685]

NM\_005787  
mir-106 ENSG00000175142 2091 nt UTR 2 hits 194 314  
-----1-----1-----  
-----

>ENSG00000175142 hs-mir-106 194 201  
AAAAGUGCUUACAGUGCAGGUAGC&AGCAGAUAAAGAAUUCACUCAAGCAGUCCUAAGAGGCACUUUA  
.((((((((.....((((.....(((&.....)))).....)))))))). -  
17.40

>ENSG00000175142 hs-mir-106 314 321  
AAAAGUGCUUACAGUGCAGGUAGC&AGUGGGGUGGGAGGAGAGGGAGAGAGCACAGGCAGGCACUUUUU  
((((((((.....((((.....&.....)))).....)))))))). -  
21.90

mir-106 ENSMUSG00000033809 2082 nt UTR 2 hits 190 308

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

>ENSMUSG00000033809 hs-mir-106 190 197  
AAAAGUGCUUACAGUGCAGGUAGC&AUGGAAACGAACAACUCAUCAGGCAGUCUUAAGAGGCACUUUA  
.((((((((((.....(((((.....&.....)))))))).)))))))). -  
17.50

>ENSMUSG00000033809 hs-mir-106 308 315  
AAAAGUGCUUACAGUGCAGGUAGC&AUGGAGUGGGAGGAGAGAGAAGAGAGCACAGGCAGGCACUUUC  
.((((((((((.....&.....)))))))).)))))))). -  
21.30

mir-106 ENSRNOG00000001712 2083 nt UTR 2 hits 188 304

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

>ENSRNOG00000001712 hs-mir-106 188 195  
AAAAGUGCUUACAGUGCAGGUAGC&UUGGAAACGAACGACUCGCCAGGCAGUCUUAAGAGGCACUUUA  
.((((((((((.....&.....)))))))).)))))))). -  
20.80

>ENSRNOG00000001712 hs-mir-106 304 311  
AAAAGUGCUUACAGUGCAGGUAGC&AUGGACUGGGCAGAGAGAGAAGAGAGCACAGGCAGGCACUUUC  
.((((((((((.....&.....)))))))).)))))))). -  
21.30

miRNA: mir-107

Human predicted target: ENSG00000084733

Mouse predicted target: ENSMUSG00000020671

Rat predicted target: ENSRNOG00000011273

Hs Gene description: RAS-RELATED PROTEIN RAB-10.

[Source:SWISSPROT;Acc:O88386] NM\_016131

mir-107 ENSG00000084733 4432 nt UTR 2 hits 773 1564

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

>ENSG00000084733 hs-mir-107 773 780  
AGCAGCAUUGUACAGGGCUAUCA&UUCUCCUUGGCCACUUCUUCUUGCGUCUCCUGCAUGCUGCUU  
((((((((((.....(((((.....&.....)))))))).)))))))). -  
23.20

>ENSG00000084733 hs-mir-107 1564 1571  
AGCAGCAUUGUACAGGGCUAUCA&UGC UUAUCAUAGGAUAGGGUAAGUGAAGUUUGC UAUUGCUGCUA  
((((((((((.....(((((.....&.....)))))))).)))))))). -  
21.10

mir-107 ENSMUSG00000020671 2358 nt UTR 2 hits 759 1481

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

>ENSMUSG00000020671 hs-mir-107 759 766  
AGCAGCAUUGUACAGGGCUAUCA&UUGGGCCACCCUGUCCUGCGUCUCAUCUUUCUGCAUGCUGCUU  
((((((((((.....(((((.....&.....)))))))).)))))))). -  
24.10



>ENSMUSG00000020671 hs-mir-107 1481 1488  
AGCAGCAUUGUACAGGGCUAUCA&UGCUCUCAUUAGGAUAGGGUAGGCUAAGUUCCCUAUGCUGCUA  
((((((((((...((.(.(((...&.....)))))))).)))).).....)))))))). -  
24.40  
mir-107 ENSRNOG00000011273 2000 nt UTR 2 hits 757 1476  
-----1-----1-----  
-----

>ENSRNOG00000011273 hs-mir-107 757 764  
AGCAGCAUUGUACAGGGCUAUCA&UUGGGCCACUCUGUCCUGCGUCUCAUCUUUCUGCAUGCUGCUU  
((((((((((.(.(((...&.....)))))))).).....)))))))). -  
23.31

>ENSRNOG00000011273 hs-mir-107 1476 1483  
AGCAGCAUUGUACAGGGCUAUCA&UGCUCUCAUUAGGAUAGGGUAGGCGAAGUUCCCUAUGCUGCUA  
((((((((((...((.(.(((...&.....)))))))).).....)))))))). -  
23.61

miRNA: mir-107  
Human predicted target: ENSG00000105085  
Mouse predicted target: ENSMUSG00000045248  
Rat predicted target: ENSRNOG00000012270  
Hs Gene description: COFACTOR REQUIRED FOR SP1 TRANSCRIPTIONAL ACTIVATION  
SUBUNIT 7 (TRANSCRIPTIONAL CO-ACTIVATOR CRSP70) (ACTIVATOR-RECRUITED  
COFACTOR 70 KDA COMPONENT) (ARC70). [Source:SWISSPROT;Acc:O95402]  
NM\_004831  
mir-107 ENSG00000105085 2000 nt UTR 2 hits 189 672  
-----1-----1-----  
-----

>ENSG00000105085 hs-mir-107 189 196  
AGCAGCAUUGUACAGGGCUAUCA&UCUCUGCGCUCUCCCUCAAACUCUUUUUGUGAAAUGCUGCUA  
((((((((((.(.(((...&.....)))))))).).....)))))))). -  
22.80

>ENSG00000105085 hs-mir-107 672 679  
AGCAGCAUUGUACAGGGCUAUCA&UAUCUGGUUCAGUUAUAACCCAGUUUUUAAAGAAAUGCUGCA  
((((((((((.(.(((...&.....)))))))).).....)))))))). -20.60  
mir-107 ENSMUSG00000045248 2000 nt UTR 2 hits 102 531  
-----1-----1-----  
-----

>ENSMUSG00000045248 hs-mir-107 102 109  
AGCAGCAUUGUACAGGGCUAUCA&AGCAUGAGGCUCGCUCUCCACCAUCCUUUUGUGAAAUGCUGCUA  
((((((((((.(.(((...&.....)))))))).).....)))))))). -  
25.22

>ENSMUSG00000045248 hs-mir-107 531 538  
AGCAGCAUUGUACAGGGCUAUCA&AUAUGGUUCAGUUCAGUCCAGUUCUAAAAGAAAUGCUGCA  
((((((((((...((.(.(((...&.....)))))))).).....)))))))). -21.80  
mir-107 ENSRNOG00000012270 2000 nt UTR 2 hits 105 581  
-----1-----1-----  
-----

>ENSRNOG00000012270 hs-mir-107 105 112  
AGCAGCAUUGUACAGGGCUAUCA&AGCAUGAGGCUCGCUCUCCACCCUCCUUUUUUGAAAUGCUGCUA  
((((((((.....(((((((&.....)))))).....)))))))). -  
22.53  
>ENSRNOG00000012270 hs-mir-107 581 588  
AGCAGCAUUGUACAGGGCUAUCA&UAUAUGGUUCAGUUCAGUCCAGUUCUAAAAGAAAUGCUGCA  
((((((((.....((((((.....&.....)))))).....)))))). -22.40

miRNA: mir-107

Human predicted target: ENSG00000137309

Mouse predicted target: ENSMUSG00000041059

Rat predicted target: ENSRNOG00000000488

Hs Gene description: HIGH MOBILITY GROUP PROTEIN HMG-I/HMG-Y (HMG-I(Y))  
(HIGH MOBILITY GROUP AT-HOOK 1). [Source:SWISSPROT;Acc:P17096] NM\_145902

mir-107 ENSG00000137309 2616 nt UTR 2 hits 447 1048

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

>ENSG00000137309 hs-mir-107 447 454  
AGCAGCAUUGUACAGGGCUAUCA&CCCAGUCCAGGGAAGGUGGGGCCCUAGGAUGCUGCA  
((((((((.....((((((.....&.....)))))).....)))))))). -31.30

>ENSG00000137309 hs-mir-107 1048 1055  
AGCAGCAUUGUACAGGGCUAUCA&GGGCAGUGAGGUGAUGGUGAGGGCAUGGGAAGCAGAUGCUGCUG  
((((((((.....((((((.....&.....)))))).....)))))))). -  
23.90

mir-107 ENSMUSG00000041059 3180 nt UTR 2 hits 1011 2999

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

>ENSMUSG00000041059 hs-mir-107 1011 1018  
AGCAGCAUUGUACAGGGCUAUCA&CCCCACACUAAGGAAGAUGGGGCCCCACCCCGUGGAUGCUGCA  
((((((((.....((((((.....&.....)))))).....)))))))). -27.41

>ENSMUSG00000041059 hs-mir-107 2999 3006  
AGCAGCAUUGUACAGGGCUAUCA&AACCAGAACCGAAAAGGUAUGAGGCCACUCUAGGAUGCUGCUG  
((((((((.....((((((.....&.....)))))).....)))))))). -  
27.30

mir-107 ENSRNOG00000000488 2018 nt UTR 2 hits 1009 1563

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

>ENSRNOG00000000488 hs-mir-107 1009 1016  
AGCAGCAUUGUACAGGGCUAUCA&CCCACGCUAGGGAAGAUGGGGCCCCCGCCCGUGGAUGCUGCA  
((((((((.....((((((.....&.....)))))).....)))))))). -28.40

>ENSRNOG00000000488 hs-mir-107 1563 1570  
AGCAGCAUUGUACAGGGCUAUCA&CUGCCAGCCAUGAACCACCUGUCAGGAAGAGCAAGAUGCUGCA  
((((((((.....((((((.....&.....)))))).....)))))))). -23.34

miRNA: mir-107

Human predicted target: ENSG00000141433

Mouse predicted target: ENSMUSG00000024256  
Rat predicted target: ENSRNOG00000014921  
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-107 ENSG00000141433 3418 nt UTR 2 hits 1921 2120

-----  
--1-----1-----  
>ENSG00000141433 hs-mir-107 1921 1928  
AGCAGCAUUGUACAGGGCUAUCA&AAACAGAAUUGGAUUUGCAUUC CAGGCGGGAUGGAUGCUGCC  
.((((((((((...(((.....&.....)))))))).)).....)))). -19.30  
>ENSG00000141433 hs-mir-107 2120 2127  
AGCAGCAUUGUACAGGGCUAUCA&CCACGAAUCACAGAUGGCUAUUUAGUGGCCCUACAAUGCUGCA  
.((((((((((...(((.....&.....)))))))).)).....)))). -33.70  
mir-107 ENSMUSG00000024256 2000 nt UTR 2 hits 1400 1821

-----1-----1-----  
-----  
>ENSMUSG00000024256 hs-mir-107 1400 1407  
AGCAGCAUUGUACAGGGCUAUCA&CCAAUCUUUGUCAUAUUAGAAUGUGUAGUGUCCAAUGCUGCUC  
((((((((((...(((.....&.....)))))))).)).....)))). -  
23.60  
>ENSMUSG00000024256 hs-mir-107 1821 1828  
AGCAGCAUUGUACAGGGCUAUCA&AACACUGUAUUUGCAUUC CAGGUGGGUGGAUGGAUGCUGCC  
.((((((((((...(((.....&.....)))))))).)).....)))). -21.40  
mir-107 ENSRNOG00000014921 2000 nt UTR 2 hits 1437 1880

-----1-----  
-1-----  
>ENSRNOG00000014921 hs-mir-107 1437 1444  
AGCAGCAUUGUACAGGGCUAUCA&CCAAUCUUUGUCAUAUUAGAAUGUGUAGUGUCCAAUGCUGCUC  
((((((((((...(((.....&.....)))))))).)).....)))). -  
23.60  
>ENSRNOG00000014921 hs-mir-107 1880 1887  
AGCAGCAUUGUACAGGGCUAUCA&AAAAACUGUAUUUGCAUUC CAGGCGGGUGGAUGGAUGCUGCC  
.((((((((((...(((.....&.....)))))))).)).....)))). -21.40

miRNA: mir-107  
Human predicted target: ENSG00000159388  
Mouse predicted target: ENSMUSG00000041551  
Rat predicted target: ENSRNOG00000003300  
Hs Gene description: BTG2 PROTEIN (NGF-INDUCIBLE ANTI-PROLIFERATIVE  
PROTEIN PC3). [Source:SWISSPROT;Acc:P78543] NM\_006763  
mir-107 ENSG00000159388 4164 nt UTR 2 hits 36 885

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

>ENSG00000159388 hs-mir-107 36 43  
AGCAGCAUUGUACAGGGCUAUCA&GCCCUUCCGCCCGCCUGGGCGCCCGUGCUCAUGCUGCC  
.((((((((((..((((((.....&.....)))))))).)).....)))))))). -28.20  
>ENSG00000159388 hs-mir-107 885 892  
AGCAGCAUUGUACAGGGCUAUCA&AAAACUCUCCUUUUGGAACCACAUGAAAGUCUUGAUGCUGCUG  
((((((((((.....((((((.&.....)))))))).)).....)))))))). -  
23.70

mir-107 ENSMUSG00000041551 4042 nt UTR 2 hits 37 872  
-1-----1-----  
-----  
-----

>ENSMUSG00000041551 hs-mir-107 37 44  
AGCAGCAUUGUACAGGGCUAUCA&UAGGAGCCACCCGACCCUGGCACUCUACUGUUCUCAUGCUGCC  
.((((((((((..((((((.....&.....)))))))).)).....)))))))). -23.01  
>ENSMUSG00000041551 hs-mir-107 872 879  
AGCAGCAUUGUACAGGGCUAUCA&CAGUCCUCCUUUUGGGAACCACACGACAGUCUGAAUGCUGCUA  
((((((((((.....((((((.&.....)))))))).)).....)))))))). -  
24.00

mir-107 ENSRNOG00000003300 3981 nt UTR 2 hits 40 853  
-1-----1-----  
-----  
-----

>ENSRNOG00000003300 hs-mir-107 40 47  
AGCAGCAUUGUACAGGGCUAUCA&GAGGAGCCGCCCGCCUGGCACUCUACUGUUCUCAUGCUGCC  
.((((((((((..((((((.....&.....)))))))).)).....)))))))). -27.01  
>ENSRNOG00000003300 hs-mir-107 853 860  
AGCAGCAUUGUACAGGGCUAUCA&UAAGCCUCCUUUUGGGAACCACGUGACAGUCUGAAUGCUGCUA  
((((((((((.....((((((.&.....)))))))).)).....)))))))). -  
23.80

miRNA: mir-107  
Human predicted target: ENSG00000165156  
Mouse predicted target: ENSMUSG00000022361  
Rat predicted target: ENSRNOG00000006412  
Hs Gene description: ZINC-FINGERS AND HOMEBOXES 1; ZINC FINGERS AND  
HOMEBOX 1. [Source:RefSeq;Acc:NM\_007222]  
mir-107 ENSG00000165156 3581 nt UTR 2 hits 1323 1385  
-----1--1-----  
-----  
-----

>ENSG00000165156 hs-mir-107 1323 1330  
AGCAGCAUUGUACAGGGCUAUCA&CCAUUGAAAUGUUAUGAAAAGCCUUGAAUAUGCAUGCUGCU  
((((((((((..((((((((((.&.....)))))))).)).....)))))))). -  
27.40  
>ENSG00000165156 hs-mir-107 1385 1392  
AGCAGCAUUGUACAGGGCUAUCA&UAUUUUUAACUAUAGCUUUUAUAGUAAUCCAAAUGCUGCA  
.((((((((((..((((((((((.&.....)))))))).)).....)))))))). -22.80  
mir-107 ENSMUSG00000022361 3483 nt UTR 2 hits 1221 1283

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

>ENSMUSG00000022361 hs-mir-107 1221 1228  
AGCAGCAUUGUACAGGGCUAUCA&UAAUGAGAAAUGUUAUGAUAAAGCCUUGACUAUGCAUGCUGCUU  
(((((((((((((.....))))))))).....))))). -  
28.80

>ENSMUSG00000022361 hs-mir-107 1283 1290  
AGCAGCAUUGUACAGGGCUAUCA&UAUUUUUUAACUAUAGCUUUAUUAGCAAUUCCAAUGCUGCA  
(((((((((((((.....))))))))).....))))). -22.16  
mir-107 ENSRNOG00000006412 3519 nt UTR 2 hits 1259 1321

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

>ENSRNOG00000006412 hs-mir-107 1259 1266  
AGCAGCAUUGUACAGGGCUAUCA&UAAUGAGAGAUGUUAUGAAAAGCCUUGAAUAUGCAUGCUGCUU  
(((((((((((((.....))))))))).....))))). -  
27.40

>ENSRNOG00000006412 hs-mir-107 1321 1328  
AGCAGCAUUGUACAGGGCUAUCA&UAUUUUUUAACUAUAGCUUUAUUAGCAAUUCCAAUGCUGCA  
(((((((((((((.....))))))))).....))))). -22.16

miRNA: mir-107

Human predicted target: ENSG00000168646

Mouse predicted target: ENSMUSG00000000142

Rat predicted target: ENSRNOG00000003612

Hs Gene description: AXIN 2 (AXIS INHIBITION PROTEIN 2) (CONDUCTIN) (AXIN-  
LIKE PROTEIN) (AXIL). [Source:SWISSPROT;Acc:Q9Y2T1]

mir-107 ENSG00000168646 2450 nt UTR 3 hits 256 412 635

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

>ENSG00000168646 hs-mir-107 256 263  
AGCAGCAUUGUACAGGGCUAUCA&UUUUAUAAAACAUGACCACUCUUGGCCUAUUGAAGAUGCUGCC  
(((((((((((((.....))))))))).....))))). -23.50

>ENSG00000168646 hs-mir-107 412 419  
AGCAGCAUUGUACAGGGCUAUCA&GAACAGUUGAUUUCCCCCAUCCCCAGUUUAUGGAUAUGCUGCUU  
(((((((((((((.....))))))))).....))))). -  
21.43

>ENSG00000168646 hs-mir-107 635 642  
AGCAGCAUUGUACAGGGCUAUCA&UGCAGAAUUGGUGCGUUUUGUUUUUUUUUCCUAUGCUGCUC  
(((((((((((((.....))))))))).....))))). -  
22.29

mir-107 ENSMUSG00000000142 2000 nt UTR 2 hits 452 678

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

>ENSMUSG00000000142 hs-mir-107 452 459  
AGCAGCAUUGUACAGGGCUAUCA&CCCUACCCGCCUCCCUACCCCCAGCCCCAGUUUAUGCUGCUU  
(((((((((((((.....))))))))).....))))). -  
25.70

>ENSMUSG00000000142 hs-mir-107 678 685  
AGCAGCAUUGUACAGGGCUAUCA&AAAUGGGUCACCCCCACCCCACCCCACCCCCCGCCAUGCUGCUC  
(((((((((((((.....&.....)))))))))..)))))))). -  
22.10

mir-107 ENSRNOG00000003612 2609 nt UTR 2 hits 448 679  
-----1-----1-----

>ENSRNOG00000003612 hs-mir-107 448 455  
AGCAGCAUUGUACAGGGCUAUCA&CCCCACUCCACCCCCAACCCCCAACCCCCAGUUUAUGCUGCUU  
(((((((((((((.....&.....)))))))))..)))))))). -  
22.00

>ENSRNOG00000003612 hs-mir-107 679 686  
AGCAGCAUUGUACAGGGCUAUCA&AAGUCGGUCACCCCCACCCAACCCCACCCCAGCCAUGCUGCUC  
(((((((((((((.....&.....)))))))))..)))))))). -  
21.80

miRNA: mir-107

Human predicted target: ENSG00000176569  
Mouse predicted target: ENSMUSG00000041059  
Rat predicted target: ENSRNOG00000000488

mir-107 ENSG00000176569 2000 nt UTR 2 hits 310 1165  
-----1-----1-----

>ENSG00000176569 hs-mir-107 310 317  
AGCAGCAUUGUACAGGGCUAUCA&CAAUGCUAACAUCCACUUAGCCACACCCUGCACAUGCUGCA  
(((((((((((((.....&.....)))))))))..)))))))). -27.20

>ENSG00000176569 hs-mir-107 1165 1172  
AGCAGCAUUGUACAGGGCUAUCA&CCCAGUCCCAAGGAAGGUGGGGCCCUAGGAUGCUGCA  
(((((((((((((.....&.....)))))))))..)))))))). -31.30

mir-107 ENSMUSG00000041059 3180 nt UTR 2 hits 1011 2999  
-----1-----1-----

>ENSMUSG00000041059 hs-mir-107 1011 1018  
AGCAGCAUUGUACAGGGCUAUCA&CCCCACACUAAGGAAGAUGGGGCCCCACCCCGUGGAUGCUGCA  
(((((((((((((.....&.....)))))))))..)))))))). -27.41

>ENSMUSG00000041059 hs-mir-107 2999 3006  
AGCAGCAUUGUACAGGGCUAUCA&AACCAGAACCGAAAAGGUAUGAGGCCACUCUAGGAUGCUGCUG  
(((((((((((((.....&.....)))))))))..)))))))). -  
27.30

mir-107 ENSRNOG00000000488 2018 nt UTR 2 hits 1009 1563  
-----1-----1-----

>ENSRNOG00000000488 hs-mir-107 1009 1016  
AGCAGCAUUGUACAGGGCUAUCA&CCCACGCUAGGGAAGAUGGGGCCCCCGCCCGUGGAUGCUGCA  
(((((((((((((.....&.....)))))))))..)))))))). -28.40

>ENSRNOG00000000488 hs-mir-107 1563 1570  
AGCAGCAUUGUACAGGGCUAUCA&CUGCCAGCCAUGAACACCUGUCAGGAAGAGCAAGAUGCUGCA

.((((((((((..((((((.....(((&.....))))).)))))).....)))))))). -23.34

miRNA: mir-122a

Human predicted target: ENSG00000125964

Mouse predicted target: ENSMUSG00000027476

Rat predicted target: ENSRNOG00000010417

Hs Gene description: NM\_080616

mir-122a ENSG00000125964 2730 nt UTR 3 hits 130 799 1461

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

>ENSG00000125964 hs-mir-122a 130 137  
UGGAGUGUGACAAUGGUGUUUGU&GAAAGAGGUGGGAUCCAAAAGAGCUGUUUCUAGCCACACUCCAA  
((((((((((..((((((.....(((&.....))))).)))))).....)))))))). -  
23.80

>ENSG00000125964 hs-mir-122a 799 806  
UGGAGUGUGACAAUGGUGUUUGU&GAAGCCCAGUCCAUGGUCACCGUUAUUCUACCUCACACUCCAG  
((((((((((.....(((&.....))..)))).)))))))). -  
24.06

>ENSG00000125964 hs-mir-122a 1461 1468  
UGGAGUGUGACAAUGGUGUUUGU&CAGACCUCAGCAGGCCCCAGGGCCUCUCCGUGCAACACUCCGU  
((((((((((..((..((((((&.....))))).)))).)))))))). -  
23.40

mir-122a ENSMUSG00000027476 2000 nt UTR 3 hits 599 753 1321

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

>ENSMUSG00000027476 hs-mir-122a 599 606  
UGGAGUGUGACAAUGGUGUUUGU&UCCCGAGUGCCAGCAUACCCUUGGGAAGGCCACCACACUCCAC  
((((((((((.....(((&.....))..)))).)))))))). -  
25.10

>ENSMUSG00000027476 hs-mir-122a 753 760  
UGGAGUGUGACAAUGGUGUUUGU&GAGUCCAGUCACACGGUCACCGUACUCUACCUCACACUCCAG  
((((((((((.....(((&.....))..)))).)))))))). -  
25.66

>ENSMUSG00000027476 hs-mir-122a 1321 1328  
UGGAGUGUGACAAUGGUGUUUGU&CCCAGACCUCAGCAGGCCAGGGGGCCUCUCCCUCAACACUCCGU  
((((((((((.....((((((&.....))))).)))))).....)))))))). -  
21.90

mir-122a ENSRNOG00000010417 2000 nt UTR 3 hits 610 756 1340

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

>ENSRNOG00000010417 hs-mir-122a 610 617  
UGGAGUGUGACAAUGGUGUUUGU&UCCUGAGUGCCAGCAUACCCUUGGGAAGGCCACCACACUCCAC  
((((((((((.....(((&.....))..)))).)))))))). -  
25.10

>ENSRNOG00000010417 hs-mir-122a 756 763  
UGGAGUGUGACAAUGGUGUUUGU&GAGUCCAGUCACACGGUCACCGUACUCUACCUCACACUCCAG

((((((((((.....(((((((((&.....)))))).....)))))))). -  
25.66

>ENSRNOG00000010417 hs-mir-122a 1340 1347  
UGGAGUGUGACAAUGGUGUUUGU&CCCAGACCUCAGCAGGCCAGGGGGCCUCUCCCUCAACACUCCGU  
((((((((((.....(((((((((&.....)))))).....)))))))). -  
21.90

miRNA: mir-122a

Human predicted target: ENSG00000166257

Mouse predicted target: ENSMUSG00000025599

Rat predicted target: ENSRNOG00000006937

Hs Gene description: SODIUM CHANNEL BETA-3 SUBUNIT PRECURSOR.

[Source:SWISSPROT;Acc:Q9NY72] NM\_018400

mir-122a ENSG00000166257 6610 nt UTR 3 hits 286 3558 5218

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

>ENSG00000166257 hs-mir-122a 286 293  
UGGAGUGUGACAAUGGUGUUUGU&GACUCAACCUCACCCUCUCCUAGUUUCCAACAAGACACUCCAA  
((((((((((.....(((((((((&.....)))))).....)))))))). -  
18.90

>ENSG00000166257 hs-mir-122a 3558 3565  
UGGAGUGUGACAAUGGUGUUUGU&UGUCACCUCGGUCUUGAAUCAGAGCCCCAACCCAAACACUCCC  
((((((((((.....(((((((((&.....)))))).....)))))))). -21.54

>ENSG00000166257 hs-mir-122a 5218 5225  
UGGAGUGUGACAAUGGUGUUUGU&GACUCAACCUCACCCUCUCCUAGUUUCCAACAAGACACUCCAA  
((((((((((.....(((((((((&.....)))))).....)))))))). -  
18.90

mir-122a ENSMUSG00000025599 2005 nt UTR 2 hits 974 1163  
-----1-----1-----

>ENSMUSG00000025599 hs-mir-122a 974 981  
UGGAGUGUGACAAUGGUGUUUGU&CCAGGACGAUUUCAGUAGGUUUUGAAAGCGAUUAACACUCCC  
((((((((((.....(((((((((&.....)))))).....)))))))). -17.80

>ENSMUSG00000025599 hs-mir-122a 1163 1170  
UGGAGUGUGACAAUGGUGUUUGU&ACUGGCCGAGAGAUGAGUUUCAUGCCUCCACUCUACACUCCC  
((((((((((.....(((((((((&.....)))))).....)))))))). -21.80  
mir-122a ENSRNOG00000006937 2483 nt UTR 2 hits 772 961  
-----1-----1-----

>ENSRNOG00000006937 hs-mir-122a 772 779  
UGGAGUGUGACAAUGGUGUUUGU&AGGACAGUUUCAGUAGGUCUCGAAAUGAUUAACACACUCCU  
((((((((((.....(((((((((&.....)))))).....)))))))). -19.70

>ENSRNOG00000006937 hs-mir-122a 961 968  
UGGAGUGUGACAAUGGUGUUUGU&ACUGGGCCAGAGAUGACUUUCCUGCCACCAACCUCACACUCCC  
((((((((((.....(((((((((&.....)))))).....)))))))). -26.80



miRNA: mir-122a

Human predicted target: ENSG00000167775

Mouse predicted target: ENSMUSG00000002308

Rat predicted target: ENSRNOG00000006901

Hs Gene description: 8D6 ANTIGEN. [Source:RefSeq;Acc:NM\_016579]

mir-122a ENSG00000167775 2326 nt UTR 2 hits 177 285

-----1---1-----  
-----  
>ENSG00000167775 hs-mir-122a 177 184  
UGGAGUGUGACAAUGGUGUUUGU&CUGCAGAAGUGGCCUGGAGAUUGAGGGUCCUGGACACUCCC  
.((((((((((...((((&..))))).))))).))))). -18.69

>ENSG00000167775 hs-mir-122a 285 292  
UGGAGUGUGACAAUGGUGUUUGU&CAGCUCACAGGGGGUAGAACGGCCUGUGCUUAAGACACUCCU  
.((((((((((...((((&..))))).))))).))))). -19.50  
mir-122a ENSMUSG00000002308 2325 nt UTR 2 hits 171 274

-----1---1-----  
-----  
>ENSMUSG00000002308 hs-mir-122a 171 178  
UGGAGUGUGACAAUGGUGUUUGU&UCUACAGAUUGGUCCUAGAGACUGGGGUCCUCAGACACUCCC  
.((((((((((...((((&..))))).))))).))))). -22.90

>ENSMUSG00000002308 hs-mir-122a 274 281  
UGGAGUGUGACAAUGGUGUUUGU&GGACGCUCUCAAGAAAUGGGGCUACUGUGGUUUAGACACUCCU  
.((((((((((...((((&..))))).))))).))))). -21.50  
mir-122a ENSRNOG00000006901 2003 nt UTR 2 hits 173 276

-----1---1-----  
-----  
>ENSRNOG00000006901 hs-mir-122a 173 180  
UGGAGUGUGACAAUGGUGUUUGU&CUUCAGAUGUGGUCCUGGAGACUGGAGGUCGUCAGACACUCCC  
.((((((((((...((((&..))))).))))).))))). -21.00  
>ENSRNOG00000006901 hs-mir-122a 276 283  
UGGAGUGUGACAAUGGUGUUUGU&GGAUGCUCCCAAGAAAUGGGGCCACCCUGAUCUAAACACUCCU  
.((((((((((...((((&..))))).))))).))))). -20.20

miRNA: mir-122a

Human predicted target: ENSG00000175826

Mouse predicted target: ENSMUSG00000018559

Rat predicted target: ENSRNOG00000017352

Hs Gene description: LIKELY ORTHOLOG OF XENOPUS DULLARD.

[Source:RefSeq;Acc:NM\_015343] NM\_015343

mir-122a ENSG00000175826 2346 nt UTR 2 hits 141 214

-----1---1-----  
-----  
>ENSG00000175826 hs-mir-122a 141 148  
UGGAGUGUGACAAUGGUGUUUGU&CUGCCCCUCCACCCUCUCUGCCCUGGGAGCCCUACACUCCAC

```

((((((((((.....((((((&.....)))))))))))))))). -
20.20
>ENSG00000175826 hs-mir-122a      214      221
UGGAGUGUGACAAUGGUGUUUGU&GGCUCUGAAGCAGCCUCACUCUUAACUUCGUGUUCACACUCCAU
((((((((((.....((((((&.....)))))))))))))))). -
24.70
mir-122a  ENSMUSG00000018559  2561 nt UTR      2 hits 139 205
-----1--1-----
-----
>ENSMUSG00000018559 hs-mir-122a      139      146
UGGAGUGUGACAAUGGUGUUUGU&GUCUGCCCCUCCACCCUCUGCCCUGGGAGCCUACACUCCAC
((((((((((.....((((((&.....)))))))))))))))). -
20.20
>ENSMUSG00000018559 hs-mir-122a      205      212
UGGAGUGUGACAAUGGUGUUUGU&UGGGCCAGACCGUGAAGCAGCCUCACUCUGGGUUCACACUCCGU
((((((((((.....((((((&.....)))))))))))))))). -
25.10
mir-122a  ENSRNOG00000017352  2000 nt UTR      3 hits 145 213 1022
-----1--1-----1-----
-----
>ENSRNOG00000017352 hs-mir-122a      145      152
UGGAGUGUGACAAUGGUGUUUGU&CUGCUCUCCCGCCUCUCUGCCCUGGGAGCCUACACUCCGC
((((((((((.....((((((&.....)))))))))))))))). -
19.50
>ENSRNOG00000017352 hs-mir-122a      213      220
UGGAGUGUGACAAUGGUGUUUGU&GGCCAGACUGUGAAGCAGCCUCACUCUUUGUGUUCACACUCCGU
((((((((((.....((((((&.....)))))))))))))))). -
25.50
>ENSRNOG00000017352 hs-mir-122a      1022     1029
UGGAGUGUGACAAUGGUGUUUGU&CCGCCUUUUCUGAGGUCACAUGAUUUUGUUUGCAACACUCCGG
((((((((((.....((((((&.....)))))))))))))))). -
20.30

```

```

miRNA: mir-124a
Human predicted target: ENSG00000012660
Mouse predicted target: ENSMUSG00000032349
Rat predicted target: ENSRNOG00000006331
Hs Gene description: HOMOLOG OF YEAST LONG CHAIN POLYUNSATURATED FATTY
ACID ELONGATIO. [Source:RefSeq;Acc:NM_021814]
mir-124a  ENSG00000012660      3729 nt UTR      2 hits 265 412
-----1-----1-----
-----
--
>ENSG00000012660 hs-mir-124a      265      272
UUAAGGCACGCGUGAAUGCCA&AAAGGGAGUAUUAUUAUAGUAUACAACACUGCUGUUGCCUUAU
.((((((((((.....((((((&.....)))))))))))))))). -23.20
>ENSG00000012660 hs-mir-124a      412      419

```

UUAAGGCACGCGGUGAAUGCCA&AUUUGUACAAUGUUGUUAUGGUAGAGAAACACACAUGCCUAAA  
(((((((((((((...((((&.....))))))....)))).)).)))). -21.50  
mir-124a ENSMUSG00000032349 3708 nt UTR 2 hits 271 413

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

>ENSMUSG00000032349 hs-mir-124a 271 278  
UUAAGGCACGCGGUGAAUGCCA&AAAGGGAAUGUUCUUGUAGUAUACAACACUGCUGUUGCCUUAU  
(((((((((((((...((((&.....))))))....)))).)).)))). -23.20

>ENSMUSG00000032349 hs-mir-124a 413 420  
UUAAGGCACGCGGUGAAUGCCA&UUUGUACAAUGUUGUUAACAGUAGAAAAACACACAUGCCUUAAG  
(((((((((((((...((((&.....))))))....)))).)).)))). -17.90  
mir-124a ENSRNOG00000006331 3374 nt UTR 2 hits 219 362

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

>ENSRNOG00000006331 hs-mir-124a 219 226  
UUAAGGCACGCGGUGAAUGCCA&AAAGGGAAUGUUGUUGUAGUAUACGACACUGCUGUUGCCUUAU  
(((((((((((((...((((&.....))))))....)))).)).)))). -23.20

>ENSRNOG00000006331 hs-mir-124a 362 369  
UUAAGGCACGCGGUGAAUGCCA&UUUGUACAGUGUUGUUAACAGUAGAAGAACACACAUGCCUUAAG  
(((((((((((((...((((&.....))))))....)))).)).)))). -17.90

miRNA: mir-124a  
Human predicted target: ENSG00000064747  
Mouse predicted target: ENSMUSG00000048797  
Rat predicted target: ENSRNOG00000003050  
Hs Gene description: NM\_015043

mir-124a ENSG00000064747 2697 nt UTR 2 hits 161 680  
-----1-----1-----  
-----  
-----

>ENSG00000064747 hs-mir-124a 161 168  
UUAAGGCACGCGGUGAAUGCCA&GUUGUGAGUGGAAAGAAGGCUGGUGCAGACCCAGCUGCCUAGA  
(((((((((((((...((((&.....))))))....)))).)).)))). -22.20

>ENSG00000064747 hs-mir-124a 680 687  
UUAAGGCACGCGGUGAAUGCCA&UCAUUUCACUUGGCUAGAAAUACACUGUGCUCAAUGCCUUAU  
(((((((((((((...((((&.....))))))....)))).)).)))). -25.90  
mir-124a ENSMUSG00000048797 2608 nt UTR 3 hits 126 593 2355

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

>ENSMUSG00000048797 hs-mir-124a 126 133  
UUAAGGCACGCGGUGAAUGCCA&AGAAGCAAAGGAGGUCAGGUCCACGCAGACCCAGUUGCCUAC  
(((((((((((((...((((&.....))))))....)))).)).)))). -19.70

>ENSMUSG00000048797 hs-mir-124a 593 600  
UUAAGGCACGCGGUGAAUGCCA&UCAUUUUAGUUGGCUAAAACACACUGUGCUCAAUGCCUUAU  
(((((((((((((...((((&.....))))))....)))).)).)))). -24.80

>ENSMUSG00000048797 hs-mir-124a 2355 2362  
UUAAGGCACGCGGUGAAUGCCA&AAAAAGAAGAAAGAAAGAAAGCCAGCCUGGGGUAUGCCUUAU

((((((((((..((((((....((..&.....)))))).....)))))))). -19.00  
mir-124a ENSRNOG00000003050 2566 nt UTR 2 hits 127 551  
-----1-----1-----  
-----  
>ENSRNOG00000003050 hs-mir-124a 127 134  
UUAAGGCACGCGGUGAAUGCCA&CACAGAAGCAAUGUCAGGUCAAUGCAGACCCAGUUGCCUUAU  
.((((((((((..((((((....((..&.....)))))).....)))))))). -19.40  
>ENSRNOG00000003050 hs-mir-124a 551 558  
UUAAGGCACGCGGUGAAUGCCA&UCAUUUUAGUUGGCUAAAAACCACACUGUGCUCUAAUGCCUUAU  
((((((((((((((((((..(((((&.....)))))).....)))))))). -24.80

miRNA: mir-124a  
Human predicted target: ENSG00000070882  
Mouse predicted target: ENSMUSG00000029822  
Rat predicted target: ENSRNOG00000010011  
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&UUUCCAAAGGUUAGGGGAAGAUUCCAAUUAUUUUUUGCCUUAU  
.((((((((.....&.....)))))))). -13.70  
>ENSG00000070882 hs-mir-124a 656 663  
UUAAGGCACGCGGUGAAUGCCA&GAAGCAUUUGAACUUGUUCUCCCUAUAGUUCUUAUUGCCUUAU  
.(((((((((((((.....&.....)))))).....)))))))). -16.21  
>ENSG00000070882 hs-mir-124a 1053 1060  
UUAAGGCACGCGGUGAAUGCCA&ACCAUUAUUUAGAUCUUGUAUAAAAAGUUGCCAUCUGCCUUAU  
.((((((((((..((..&.....)))))).....)))))))). -18.40  
mir-124a ENSMUSG00000029822 2258 nt UTR 2 hits 336 1027  
-----1-----1-----

>ENSMUSG00000029822 hs-mir-124a 336 343  
UUAAGGCACGCGGUGAAUGCCA&AAUUUCCAGAGGUAAGGGGAAAUUUCAAUUUUUUGCCUUAU  
.((((((((.....((..((..&.....)))))).....)))))))). -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&AAUUUCCAAAGGUAAGGGGAAAUUUCAAUUUUUUGCCUUAU  
.((((((((.....((..((..&.....)))))).....)))))))). -19.20  
>ENSRNOG00000010011 hs-mir-124a 641 648

UUAAGGCACGCGGUGAAUGCCA&CAACCGGAAGAAGUCUUCUCUCCCUCGAGUUCUGUUGCCUUAU  
.((((((((((.....&.....))))))))). -16.90  
>ENSRNOG00000010011 hs-mir-124a 1040 1047  
UUAAGGCACGCGGUGAAUGCCA&CGUACUUUUGACCUUGUAUAGAGAGUUUGACCAUCUGCCUUAU  
.((((((((((.....&.....))))))))). -17.80

miRNA: mir-124a

Human predicted target: ENSG00000071564

Mouse predicted target: ENSMUSG00000020167

Rat predicted target: ENSRNOG00000016970

Hs Gene description: TRANSCRIPTION FACTOR E2-ALPHA (IMMUNOGLOBULIN  
ENHANCER BINDING FACTOR E12/E47) (TRANSCRIPTION FACTOR-3) (TCF-3)  
(IMMUNOGLOBULIN TRANSCRIPTION FACTOR-1) (TRANSCRIPTION FACTOR ITF-1)  
(KAPPA-E2-BINDING FACTOR). [Source:SWISSPROT;Acc:P15923] NM\_003200

mir-124a ENSG00000071564 4413 nt UTR 2 hits 394 3152

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

>ENSG00000071564 hs-mir-124a 394 401  
UUAAGGCACGCGGUGAAUGCCA&CAACAAAACAUACACUUUGUCAGAGAAGAAAAAUGCCUUAAC  
((((((((((.....&.....))))))))). -17.19

>ENSG00000071564 hs-mir-124a 3152 3159  
UUAAGGCACGCGGUGAAUGCCA&GGUGGCCCCAGGAGAGAGCCCUUUGGCACACAAGUGCCUUAAG  
((((((((((.....&.....))))))))). -27.70

mir-124a ENSMUSG00000020167 2508 nt UTR 2 hits 256 1559  
-----1-----1-----

>ENSMUSG00000020167 hs-mir-124a 256 263  
UUAAGGCACGCGGUGAAUGCCA&AGCAGCAUGCUCUUUUCAAAAAGGAAAGAAAGAUGCCUUAAC  
((((((((((.....&.....))))))))). -17.25

>ENSMUSG00000020167 hs-mir-124a 1559 1566  
UUAAGGCACGCGGUGAAUGCCA&UGGGAGGAACAGCUGGAAUGAAUACAAGACUGCCUUGCCUUAU  
.((((((((((.....&.....))))))))). -20.10

mir-124a ENSRNOG00000016970 2459 nt UTR 2 hits 182 661  
-----1-----1-----

>ENSRNOG00000016970 hs-mir-124a 182 189  
UUAAGGCACGCGGUGAAUGCCA&AAGCAGCAUGCCCACUUUAUCAGAAAGGAAAAAAGAUGCCUUAAC  
((((((((((.....&.....))))))))). -18.31

>ENSRNOG00000016970 hs-mir-124a 661 668  
UUAAGGCACGCGGUGAAUGCCA&AAGCAGCAUGCCCACUUUAUCAGAAAGGAAAAAAGAUGCCUUAAC  
((((((((((.....&.....))))))))). -18.31

miRNA: mir-124a

Human predicted target: ENSG00000087299

Mouse predicted target: ENSMUSG00000020988

Rat predicted target: ENSRNOG00000004857  
Hs Gene description: NM\_024884  
mir-124a ENSG00000087299 2593 nt UTR 1 hits 1958

-----1-----  
>ENSG00000087299 hs-mir-124a 1958 1965  
UUAAGGCACGCGGUGAAUGCCA&AACUUUGAGGCAUUCACUUUUGUAAACCGCGAAAGUGCCUAC  
.((((((((((((((((((((((.&.....)))))))))).....)))))).....)))))))). -32.90  
mir-124a ENSMUSG00000020988 3834 nt UTR 1 hits 793

-----1-----  
-----  
>ENSMUSG00000020988 hs-mir-124a 793 800  
UUAAGGCACGCGGUGAAUGCCA&AACUUGGAGGCAUUCACUUUUGUAAACCGCGAAAGUGCCUUAU  
.((((((((((((((((((((((.&.....)))))))))).....)))))).....)))))))). -33.00  
mir-124a ENSRNOG00000004857 2000 nt UTR 1 hits 772

-----1-----  
-----  
>ENSRNOG00000004857 hs-mir-124a 772 779  
UUAAGGCACGCGGUGAAUGCCA&AACUUGUAGGCAUUCACUUUUGUAAACCGCAAAGUGCCUAC  
.((((((((((((((((((((((.&.....)))))))))).....)))))).....)))))))). -32.90

miRNA: mir-124a  
Human predicted target: ENSG00000100281  
Mouse predicted target: ENSMUSG00000005411  
Rat predicted target: ENSRNOG00000013986  
Hs Gene description: HIGH-MOBILITY GROUP PROTEIN 2-LIKE 1 (HMGBCG  
PROTEIN). [Source:SWISSPROT;Acc:Q9UGU5] NM\_005487  
mir-124a ENSG00000100281 4155 nt UTR 2 hits 275 404

-----1-----1-----  
-----  
>ENSG00000100281 hs-mir-124a 275 282  
UUAAGGCACGCGGUGAAUGCCA&CUUGGGAUUCUUUUUCUCCUGUGGUGGAUAAAUCUGCCUAAA  
((((((((((((((((((((((.&..)))))).....)))))).....)))))))). -21.90  
>ENSG00000100281 hs-mir-124a 404 411  
UUAAGGCACGCGGUGAAUGCCA&GCUCAGUUGGACCUCCAGACCAUCACUGACCAUUGCCUAC  
.((((((((..((((((.....&.....)))))).....)))))).....)))))))). -20.20  
mir-124a ENSMUSG00000005411 2656 nt UTR 2 hits 257 396

-----1-----1-----  
-----  
>ENSMUSG00000005411 hs-mir-124a 257 264  
UUAAGGCACGCGGUGAAUGCCA&UGGGCUUGGAAUUAUUUUUUGUGAAAAAAAAAUCUGCCUAAA  
((((((((((((((((((((((.&.....)))))).....)))))).....)))))))). -17.60  
>ENSMUSG00000005411 hs-mir-124a 396 403  
UUAAGGCACGCGGUGAAUGCCA&GCUUGGUUUACCUCAGACCAUCACUGACCAUUGCCUAC  
.((((((((..((((((.....&.....)))))).....)))))).....)))))))). -20.20

mir-124a ENSRNOG00000013986 2000 nt UTR 2 hits 712 844  
-----1-----1-----  
-----  
>ENSRNOG00000013986 hs-mir-124a 712 719  
UUAAGGCACGCGGUGAAUGCCA&GUGGGCUUGGAAUUAUUUUUUUGUGAAAAAAAAAUCUGCCUAAA  
(((((((((((((((((.&.....))))))..))))))..))))). -17.70  
>ENSRNOG00000013986 hs-mir-124a 844 851  
UUAAGGCACGCGGUGAAUGCCA&GCUUGGGUUUGCCUGCAGACCCAUCGCUGACCAUUUGCCUAC  
..(((((((((((((((((.&.....))))))..))))))..))))). -21.70

miRNA: mir-124a  
Human predicted target: ENSG00000116132  
Mouse predicted target: ENSMUSG00000026586  
Rat predicted target: ENSRNOG00000003720  
Hs Gene description: PAIRED MESODERM HOMEBOX PROTEIN 1 (PRX-1) (PAIRED RELATED HOMEBOX PROTEIN 1) (HOMEBOX PROTEIN PHOX1).

[Source:SWISSPROT;Acc:P54821] NM\_006902  
mir-124a ENSG00000116132 3653 nt UTR 2 hits 433 914  
-----1-----1-----  
-----  
>ENSG00000116132 hs-mir-124a 433 440  
UUAAGGCACGCGGUGAAUGCCA&CCUCUACUGUCCUCAUUGACUUGUUUGAACCUUAGUGCCUAC  
..(((((((((((((((((.&.....))))))..))))))..))))). -21.20  
>ENSG00000116132 hs-mir-124a 914 921  
UUAAGGCACGCGGUGAAUGCCA&AGUGAGUUCUAAAAGGCAUGCCCACAUCUCUUUCGUGCCUAAAG  
(((((((((((((((((((((.&.....))))))..))))))..))))). -28.30

mir-124a ENSMUSG00000026586 3522 nt UTR 2 hits 403 811  
-----1-----1-----  
-----  
>ENSMUSG00000026586 hs-mir-124a 403 410  
UUAAGGCACGCGGUGAAUGCCA&GAAAGAUCACUUCUCGGUAACCUGCUUGACUUCAGUGCCUAC  
..(((((((((((((((((((((.&.....))))))..))))))..))))). -21.70  
>ENSMUSG00000026586 hs-mir-124a 811 818  
UUAAGGCACGCGGUGAAUGCCA&CUGAGUUGUGAAAGGCAUAGUCUAUAUUUCUUUGGUGCCUAGA  
(((((((((((((((((((((((((.&.....))))))..))))))..))))). -24.80

mir-124a ENSRNOG00000003720 2069 nt UTR 2 hits 418 824  
-----1-----1-----  
-----  
>ENSRNOG00000003720 hs-mir-124a 418 425  
UUAAGGCACGCGGUGAAUGCCA&AAAAUCACUUCUCAGUAACUUGUUUGACACUUCAGUGCCUAC  
..(((((((((((((((((((((.&.....))))))..))))))..))))). -21.60  
>ENSRNOG00000003720 hs-mir-124a 824 831  
UUAAGGCACGCGGUGAAUGCCA&UGAAAUUGUGAAAGGCAUAGUCUAUAUCUCUUUGGUGCCUAGG  
(((((((((((((((((((((((((.&.....))))))..))))))..))))). -24.80

miRNA: mir-124a

Human predicted target: ENSG00000119729  
Mouse predicted target: ENSMUSG00000024143  
Rat predicted target: ENSRNOG00000015415  
Hs Gene description: GTP-BINDING PROTEIN TC10.  
[Source:SWISSPROT;Acc:P17081] NM\_012249

mir-124a ENSG00000119729 4038 nt UTR 3 hits 1385 2416 2584  
-----1-----  
-----1-----1-----

>ENSG00000119729 hs-mir-124a 1385 1392  
UUAAGGCACGCGGUGAAUGCCA&CUAAUUCAGCUUCCUUGUUGGUCUGCUGUGGAUCUGCCUUAU  
.((((((((((((((((((...(((&.....)))))))).)))))))). -22.40  
>ENSG00000119729 hs-mir-124a 2416 2423  
UUAAGGCACGCGGUGAAUGCCA&CUAAGCAAAGAUGACUGUCACAUCUGAAGCUGAGGUGCCUUAAG  
((((((((((((((((((...(((&.....)))))))).)))))))). -21.90  
>ENSG00000119729 hs-mir-124a 2584 2591  
UUAAGGCACGCGGUGAAUGCCA&UUUGUUUUCUAUUGAUUAGCAGACUAGAGAAAAACUGCCUUAU  
.((((((((((((((((((...(((&.....)))))))).)))))))). -14.60  
mir-124a ENSMUSG00000024143 4963 nt UTR 3 hits 1349 2269 2434

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

>ENSMUSG00000024143 hs-mir-124a 1349 1356  
UUAAGGCACGCGGUGAAUGCCA&CUCAUUUGGCUUUCUUCUUCGGUCUGCUAUGGAUCUGCCUUAU  
.((((((((((((((((((...(((&.....)))))))).)))))))). -20.80  
>ENSMUSG00000024143 hs-mir-124a 2269 2276  
UUAAGGCACGCGGUGAAUGCCA&ACUCUCGCAGACGGCUGCAUCACCCGAACCUGAGGUGCCUUAAG  
((((((((((((((((((...(((&.....)))))))).)))))))). -26.60  
>ENSMUSG00000024143 hs-mir-124a 2434 2441  
UUAAGGCACGCGGUGAAUGCCA&UUUGUUUUCUAUUCAUGAGCAGAUUAUAGAGACACUGCCUUAU  
.((((((((((((((((((...(((&.....)))))))).)))))))). -17.70  
mir-124a ENSRNOG00000015415 4938 nt UTR 3 hits 1301 2232 2397

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

>ENSRNOG00000015415 hs-mir-124a 1301 1308  
UUAAGGCACGCGGUGAAUGCCA&CCUCGUUGGCUUUCUUCUUCGUCUGCUAUGGAUCUGCCUUAU  
.((((((((((((((((((...(((&.....)))))))).)))))))). -22.52  
>ENSRNOG00000015415 hs-mir-124a 2232 2239  
UUAAGGCACGCGGUGAAUGCCA&CUCUAAGCAGACGAUUGUAUCAUCUGAACCUGAGGUGCCUUAAG  
((((((((((((((((((...(((&.....)))))))).)))))))). -20.50  
>ENSRNOG00000015415 hs-mir-124a 2397 2404  
UUAAGGCACGCGGUGAAUGCCA&UUUGUUUUCUAUUCAUGAACAGAUUAUAGAGAGACUGCCUUAU  
.((((((((((((((((((...(((&.....)))))))).)))))))). -15.33

miRNA: mir-124a  
Human predicted target: ENSG00000134324



Mouse predicted target: ENSMUSG00000020593  
Rat predicted target: ENSRNOG00000004377  
Hs Gene description: LIPIN 1. [Source:SWISSPROT;Acc:Q14693] NM\_145693  
mir-124a ENSG00000134324 4618 nt UTR 2 hits 711 4407

-----1-----  
-----1-----  
>ENSG00000134324 hs-mir-124a 711 718  
UUAAGGCACGCGGUGAAUGCCA&CCCCAGUUUUUGUGGCUCAAGGCUGGAAUAUUUAUGCCUAAU  
((((((((((..(((..(((&.....))))))..)).....)))))))). -20.30  
>ENSG00000134324 hs-mir-124a 4407 4414  
UUAAGGCACGCGGUGAAUGCCA&CAGACCUAGUUAGGGGCAGCGCUGUGCCCAUCUCUGCCUAAA  
(((((((((((((..(((..&.....))))..))))).....)))))))). -28.30  
mir-124a ENSMUSG00000020593 4456 nt UTR 2 hits 656 720

-----1-1-----  
-----  
>ENSMUSG00000020593 hs-mir-124a 656 663  
UUAAGGCACGCGGUGAAUGCCA&UCCCAUUCUCAUAGCUCAAGGCUGGGCUAUUUUAUGCCUAAAC  
((((((((((.....(((((((..&.....))))..))))))))) -20.00  
>ENSMUSG00000020593 hs-mir-124a 720 727  
UUAAGGCACGCGGUGAAUGCCA&CUUAGCGUGCACUGUCUAGCUCUCCGUAACUGCAAUGCCUAC  
(((((((((((((..(((..&.....))))..)))))).....)))))))). -22.00  
mir-124a ENSRNOG00000004377 2000 nt UTR 2 hits 642 706

-----1-1-----  
-----  
>ENSRNOG00000004377 hs-mir-124a 642 649  
UUAAGGCACGCGGUGAAUGCCA&UCCCAUUCUCAUAGCUCAACGCUGGGCUAUGUCUGCCUAAAC  
(((((((((((((..(((..&.....))))..))))))))) -21.40  
>ENSRNOG00000004377 hs-mir-124a 706 713  
UUAAGGCACGCGGUGAAUGCCA&CUUAGCGUGCACUGUCUAGCUCUCCGUAACUGCAAUGCCUAC  
(((((((((((((..(((..&.....))))..)))))).....)))))))). -22.00

miRNA: mir-124a  
Human predicted target: ENSG00000135535  
Mouse predicted target: ENSMUSG00000019818  
Rat predicted target: ENSRNOG00000000304  
Hs Gene description: PUTATIVE MUCIN CORE PROTEIN 24 PRECURSOR (MULTI-  
GLYCOSYLATED CORE PROTEIN 24) (MGC-24) (MUC-24) (CD164 ANTIGEN).  
[Source:SWISSPROT;Acc:Q04900]  
mir-124a ENSG00000135535 4339 nt UTR 2 hits 652 1653

-----1-----1-----  
-----  
>ENSG00000135535 hs-mir-124a 652 659  
UUAAGGCACGCGGUGAAUGCCA&AAAGCAUCUUAUGUCAUUGAGAAUAUAAGAACAGUGCCUAGA  
(((((((((((((..(((..&.....))))..)))))).....)))))))). -22.39

```

>ENSG00000135535 hs-mir-124a 1653 1660
UUAAGGCACGCGGUGAAUGCCA&CUUGCACAUUUGUACAUAUACUUAUGUUUCAAGUGCCUAAU
((((((((((.....((((((..&.....)))))))).)))))))). -21.50
mir-124a ENSMUSG00000019818 4203 nt UTR 3 hits 661 1550 2243
-----1-----1-----
-----1-----
>ENSMUSG00000019818 hs-mir-124a 661 668
UUAAGGCACGCGGUGAAUGCCA&CUCAUAAAGUGUACCGUAUUAAGAAAUCAGAACAGUGCCUUAAG
((((((((((((((((.....&.....)))))))).)))))))). -22.42
>ENSMUSG00000019818 hs-mir-124a 1550 1557
UUAAGGCACGCGGUGAAUGCCA&CUUGCACAUUUGUACAUAUAUCUAAUGUUUCAAGUGCCUUAAC
((((((((((.....((((((..&.....)))))))).)))))))). -20.70
>ENSMUSG00000019818 hs-mir-124a 2243 2250
UUAAGGCACGCGGUGAAUGCCA&GUGUCAUAUUUUGAUUAUGAAAUAACAUGUGUUUGCCUUAAC
((((((((((((((((.....&.....)))))))).)))))))). -20.90
mir-124a ENSRNOG00000000304 4220 nt UTR 4 hits 666 1565 2263 2714
-----1-----1-----
-----1-----1-----
>ENSRNOG00000000304 hs-mir-124a 666 673
UUAAGGCACGCGGUGAAUGCCA&AUACUCAUAAAGUACCAUAUUAAGAAAUAAGAACAGUGCCUUAAG
((((((((((...((.....&.....)))))))).)))))))). -18.70
>ENSRNOG00000000304 hs-mir-124a 1565 1572
UUAAGGCACGCGGUGAAUGCCA&CUUGCACAUUUGUACAUAUAUCUAAUGUUUCAAGUGCCUUAAC
((((((((((.....((((((..&.....)))))))).)))))))). -20.70
>ENSRNOG00000000304 hs-mir-124a 2263 2270
UUAAGGCACGCGGUGAAUGCCA&UGUCAUAUUUUGAUUAUGAAAUAACACUGUGUUUGCCUUAAC
((((((((((((((((.....&.....)))))))).)))))))). -23.30
>ENSRNOG00000000304 hs-mir-124a 2714 2721
UUAAGGCACGCGGUGAAUGCCA&CUGCAGGUCUGGAUGUAAGGUUAGAUUCAGUGAUUUGCCUUAAGA
((((((((((..((..((((((((..&.....)))))))).)))))))). -23.90

```

```

miRNA: mir-124a
Human predicted target: ENSG00000143434
Mouse predicted target: ENSMUSG00000038777
Rat predicted target: ENSRNOG00000021101
Hs Gene description: SEMAPHORIN 6C PRECURSOR (SEMAPHORIN Y) (SEMA Y).
[Source:SWISSPROT;Acc:Q9H3T2] NM_030913
mir-124a ENSG00000143434 2799 nt UTR 2 hits 280 1804
-----1-----1-----
-----1-----
>ENSG00000143434 hs-mir-124a 280 287
UUAAGGCACGCGGUGAAUGCCA&GCGGACUCCACUCCCGCUCUUCCAGCCAAGCUGCCUUAAC
((((((((((..((((((((..&.....)))))))).)))))))). -19.90
>ENSG00000143434 hs-mir-124a 1804 1811
UUAAGGCACGCGGUGAAUGCCA&GUGGUCCUUUAGGUCUCAGUUUUUCCCGUAUGGGGUGCCUUAAC

```

.(((((((((((((((((((((.&)))))).....)))))))). -22.77  
mir-124a ENSMUSG00000038777 2000 nt UTR 2 hits 206 1273  
-----1-----1-----  
-----  
>ENSMUSG00000038777 hs-mir-124a 206 213  
UUAAGGCACGCGGUGAAUGCCA&GCCGACUCCACUCCCGCUCCCUUCCAGCCACGCUGCCUUAAG  
(((((((((((((((((((((.&.....)))))).....)))))))). -22.50  
>ENSMUSG00000038777 hs-mir-124a 1273 1280  
UUAAGGCACGCGGUGAAUGCCA&GUUUACCUCUUCACCUUUUACCUUUGGGAUGGUAACUGCCUUAAG  
(((((((((((((((((((((.&.....)))))).....)))))))). -18.46  
mir-124a ENSRNOG00000021101 2022 nt UTR 2 hits 219 1315  
-----1-----1-----  
-----  
>ENSRNOG00000021101 hs-mir-124a 219 226  
UUAAGGCACGCGGUGAAUGCCA&GCCGACUCCACUCCCGCUCCCUUCCAGCCACGCUGCCUUAAC  
(((((((((((((((((((((.&.....)))))).....)))))))). -22.20  
>ENSRNOG00000021101 hs-mir-124a 1315 1322  
UUAAGGCACGCGGUGAAUGCCA&GUUUACCUCUUCACCUUUUACCUUUGGGAUGGUAACUGCCUUAAG  
(((((((((((((((((((((.&.....)))))).....)))))))). -17.40

miRNA: mir-124a  
Human predicted target: ENSG00000148248  
Mouse predicted target: ENSMUSG00000014867  
Rat predicted target: ENSRNOG00000005247  
Hs Gene description: SURFEIT LOCUS PROTEIN 4.  
[Source:SWISSPROT;Acc:O15260] NM\_033161

mir-124a ENSG00000148248 4029 nt UTR 3 hits 1108 1155 2205  
-----1-1-----  
-----1-----  
-----  
>ENSG00000148248 hs-mir-124a 1108 1115  
UUAAGGCACGCGGUGAAUGCCA&CGAAUGCAGCCAAAUAUCCUUUUUACAAUUGUGAUGCCUUAAC  
.(((((((((((((((((((((.&.....)))))).....)))))))). -18.82  
>ENSG00000148248 hs-mir-124a 1155 1162  
UUAAGGCACGCGGUGAAUGCCA&UUGAUCUUAUCCUGUAUUUAAAGUUUUCUAACACUGCCUUAU  
.(((((((((((((((((((((.&.....)))))).....)))))))). -17.70  
>ENSG00000148248 hs-mir-124a 2205 2212  
UUAAGGCACGCGGUGAAUGCCA&GCUUCCUGGGUGUGGGGGACAGACUCCCUAGCCUAGCCUUAAGA  
(((((((((((((((((((((.&.....)))))).....)))))))). -20.75  
mir-124a ENSMUSG00000014867 3867 nt UTR 2 hits 1026 1073  
-----1-----  
-----  
>ENSMUSG00000014867 hs-mir-124a 1026 1033  
UUAAGGCACGCGGUGAAUGCCA&CUGUAUGCAGCCAAGAUACUUUUUACAAUUGUGAUGCCUUAAC  
.(((((((((((((((((((((.&..)))))).....)))))))). -19.70  
>ENSMUSG00000014867 hs-mir-124a 1073 1080

UUAAGGCACGCGGUGAAUGCCA&UUGAUCUCAGUCCUGUAUUUAAAGUUUUCUAACAUGCCUAC  
.(((((((((((((.....&.....)))))))).)).....)))))))). -17.60  
mir-124a ENSRNOG0000005247 3762 nt UTR 4 hits 1027 1074 2502 2549

-----11-----  
-----11-----  
---

>ENSRNOG0000005247 hs-mir-124a 1027 1034  
UUAAGGCACGCGGUGAAUGCCA&GCUGGAUGCAGCCAAGAUACUUUUACAUAUUGUGAUGCCUAC  
.(((((((((((((.....&.....)))))))).)).....)))))))). -19.86

>ENSRNOG0000005247 hs-mir-124a 1074 1081  
UUAAGGCACGCGGUGAAUGCCA&UUGAUCUCAGUCCUGUAUUUAAAGUUUUCUAACAUGCCUAC  
.(((((((((((((.....&.....)))))))).)).....)))))))). -17.60

>ENSRNOG0000005247 hs-mir-124a 2502 2509  
UUAAGGCACGCGGUGAAUGCCA&GCUGGAUGCAGCCAAGAUACUUUUACAUAUUGUGAUGCCUAC  
.(((((((((((((.....&.....)))))))).)).....)))))))). -19.86

>ENSRNOG0000005247 hs-mir-124a 2549 2556  
UUAAGGCACGCGGUGAAUGCCA&UUGAUCUCAGUCCUGUAUUUAAAGUUUUCUAACAUGCCUAC  
.(((((((((((((.....&.....)))))))).)).....)))))))). -17.60

miRNA: mir-124a

Human predicted target: ENSG00000154188

Mouse predicted target: ENSMUSG00000022309

Rat predicted target: ENSRNOG0000005854

Hs Gene description: ANGIOPOIETIN-1 PRECURSOR (ANG-1).

[Source:SWISSPROT;Acc:Q15389] NM\_139290

mir-124a ENSG00000154188 4373 nt UTR 2 hits 1740 1859

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

>ENSG00000154188 hs-mir-124a 1740 1747  
UUAAGGCACGCGGUGAAUGCCA&AAUACCAGUUUCAAAACUUGGUGACUUGAUCCACUAUGCCUAAU  
(((((((((((((.....&.....)))))))).)).....)))))))). -18.60

>ENSG00000154188 hs-mir-124a 1859 1866  
UUAAGGCACGCGGUGAAUGCCA&UUUUUAUAUUUAUGUGUCUGUAUUCUACCCCUUUUUGCCUAC  
.(((((((((((((.....&.....)))))))).)).....)))))))). -21.30

mir-124a ENSMUSG00000022309 2227 nt UTR 2 hits 1374 1767  
-----1-----1-----  
-----

>ENSMUSG00000022309 hs-mir-124a 1374 1381  
UUAAGGCACGCGGUGAAUGCCA&UGACUAGGAAGUUUCUGAUUGUUAGCUGCUAUAAGUGCCUUAU  
(((((((((((((.....&.....)))))))).)).....)))))))). -22.40

>ENSMUSG00000022309 hs-mir-124a 1767 1774  
UUAAGGCACGCGGUGAAUGCCA&UUCUUAUAUUUAUAUGUGUUCUAUAAGUACUAUUUUGCCUAC  
.(((((((((((((.....&.....)))))))).)).....)))))))). -19.10

mir-124a ENSRNOG0000005854 2187 nt UTR 2 hits 1384 1775  
-----1-----1-----  
-----

>ENSRNOG00000005854 hs-mir-124a 1384 1391  
UUAAGGCACGCGGUGAAUGCCA&GACUAAGAAUUUUCUAAUUGGUUAACUGCUAUAAGUGCCUUAGA  
((((((((((((((.....(((&.....)))))).....)))))))). -26.30  
>ENSRNOG00000005854 hs-mir-124a 1775 1782  
UUAAGGCACGCGGUGAAUGCCA&CUUUCUUUAUCUUAUAUCUGCAAAAAGACCAUUUUGCCUUUAU  
((((((((((.....((.....((.....&.....)))))).....)))))). -16.50

miRNA: mir-124a

Human predicted target: ENSG00000156642

Mouse predicted target: ENSMUSG00000032336

Rat predicted target: ENSRNOG00000009029

Hs Gene description: STROMAL CELL DERIVED FACTOR RECEPTOR 1 ISOFORM B.

[Source:RefSeq;Acc:NM\_012428]

mir-124a ENSG00000156642 3045 nt UTR 2 hits 127 2005

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

>ENSG00000156642 hs-mir-124a 127 134  
UUAAGGCACGCGGUGAAUGCCA&UCAAGUGAGCAACACCACAAUGACUGUCUAAAGCAUGCCUUUAU  
((((((((((.....((.....((.....&.....)))))).....)))))). -21.49

>ENSG00000156642 hs-mir-124a 2005 2012  
UUAAGGCACGCGGUGAAUGCCA&UCAAGUGAGCAACACCACAAUGACUGUCUAAAGCAUGCCUUUAU  
((((((((((.....((.....((.....&.....)))))).....)))))). -21.49

mir-124a ENSMUSG00000032336 3034 nt UTR 2 hits 127 1330

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

>ENSMUSG00000032336 hs-mir-124a 127 134  
UUAAGGCACGCGGUGAAUGCCA&UCAAGUGAGCAACACCACAAUGACCGUCUAAAGCAUGCCUUUAU  
((((((((((.....((.....((.....&.....)))))).....)))))). -21.49

>ENSMUSG00000032336 hs-mir-124a 1330 1337  
UUAAGGCACGCGGUGAAUGCCA&CUGCCUGAUCCAGAUAAUUUAACACAGAAAACAUGCCUUAAA  
((((((((((.....((.....((.....&.....)))))).....)))))). -15.00

mir-124a ENSRNOG00000009029 2000 nt UTR 2 hits 649 1848

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

>ENSRNOG00000009029 hs-mir-124a 649 656  
UUAAGGCACGCGGUGAAUGCCA&UCAAGUGAGCAACACCACAAUGACCGUCUAAAGCAUGCCUUUAU  
((((((((((.....((.....((.....&.....)))))).....)))))). -21.49

>ENSRNOG00000009029 hs-mir-124a 1848 1855  
UUAAGGCACGCGGUGAAUGCCA&UUGUGUGAUCCAGAUAAUUUAACACAGAAAACAUGCCUUAAA  
((((((((((.....((.....((.....&.....)))))).....)))))). -14.49

miRNA: mir-124a

Human predicted target: ENSG00000162734

Mouse predicted target: ENSMUSG00000013698

Rat predicted target: ENSRNOG00000006854

Hs Gene description: ASTROCYTIC PHOSPHOPROTEIN PEA-15 (PED).

[Source:SWISSPROT;Acc:Q15121] NM\_003768

mir-124a ENSG00000162734 3890 nt UTR 2 hits 1491 1527

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

>ENSG00000162734 hs-mir-124a 1491 1498

UUAAGGCACGCGGUGAAUGCCA&CGUGCCCUGCCCCUCUGGCCACUGCUGCAGACACCUGCCUUAAC  
(((((((((.((((((...(((&.....))))))))).....)))))).. -24.10

>ENSG00000162734 hs-mir-124a 1527 1534

UUAAGGCACGCGGUGAAUGCCA&GCCUUAACACACACCUCUAGGACUCCACAGUUUUGCCUAAA  
(((((((((.((((((...((.&.....)))..))..))..))..))..)).. -21.00

mir-124a ENSMUSG00000013698 3892 nt UTR 2 hits 1515 1549

-----11-----

>ENSMUSG00000013698 hs-mir-124a 1515 1522

UUAAGGCACGCGGUGAAUGCCA&AUUGCCCAUCUCCUCUGGCCACUGCUGCAGACACCUGCCUUAAC  
(((((((((.((((((...(((&.....))))))))).....)))))).. -24.10

>ENSMUSG00000013698 hs-mir-124a 1549 1556

UUAAGGCACGCGGUGAAUGCCA&CUGCCUUAACUCUCACACCUCGAAGACUCCAGCUUUGCCUAAA  
(((((((((.((((((...&.....)))..))..))..))..)).. -20.21

mir-124a ENSRNOG00000006854 2000 nt UTR 2 hits 184 218

-----11-----

>ENSRNOG00000006854 hs-mir-124a 184 191

UUAAGGCACGCGGUGAAUGCCA&UUUGCCCAUCUCCUCUGGCCACUGCUGCAGACACCUGCCUUAAC  
(((((((((.((((((...(((&.....))))))))).....)))))).. -24.10

>ENSRNOG00000006854 hs-mir-124a 218 225

UUAAGGCACGCGGUGAAUGCCA&CUGCCUUAACACACACCUCUAAGACUCCAGUUUUGCCUAAA  
(((((((((.((((((...&.....)))..))..))..))..)).. -16.70

miRNA: mir-124a

Human predicted target: ENSG00000163403

Mouse predicted target: ENSMUSG00000035158

Rat predicted target: ENSRNOG00000008651

Rat predicted target: ENSRNOG00000008658

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&UUUUCCAUUUUUAAAUGUAUUGAUUCAUUGGUACUGCCUAAA  
(((((((((.((((((...&.....))))))))).....)))))).. -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&UUUCUCGCUUUCUAAAUGCGGCAAUUUCCUGGUACUGCCUAAA  
((((((((((...(((.(((((&.....))))))....)))))))). -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

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

>ENSRNOG00000008658 hs-mir-124a 958 965  
UUAAGGCACGCGGUGAAUGCCA&UUUCUCACUUUAUAAAUGUGUCGAUUCCUGGUACUGCCUAAA  
((((((((((...(((.(((((&.....))))))....)))))))). -18.10

>ENSRNOG00000008658 hs-mir-124a 2046 2053  
UUAAGGCACGCGGUGAAUGCCA&GCGAGCGGCAUAAAACUUAUCCUUCAGAAUGAAGUGCCUAAA  
((((((((((...(((.(((((&.....))))))....)))))))). -24.31

miRNA: mir-124a

Human predicted target: ENSG00000166712

Mouse predicted target: ENSMUSG00000022500

Rat predicted target: ENSRNOG00000002520

Hs Gene description: LIPOPOLYSACCHARIDE-INDUCED TUMOR NECROSIS FACTOR-  
ALPHA FACTOR (LPS-INDUCED TNF-ALPHA FACTOR) (P53-INDUCED PROTEIN 7).

[Source:SWISSPROT;Acc:Q99732] NM\_004862

mir-124a ENSG00000166712 3053 nt UTR 2 hits 388 490

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

>ENSG00000166712 hs-mir-124a 388 395  
UUAAGGCACGCGGUGAAUGCCA&UUUCUGGUGGCAGUCUCAAACUGAGAAGCCACAGUUGCCUAAU  
((((((((((...(((.(((((&.....))))))....)))))))). -22.30

>ENSG00000166712 hs-mir-124a 490 497  
UUAAGGCACGCGGUGAAUGCCA&UAUCCGUCUCUUCGCCGUCCUGAUGACAAAGAUCUUGCCUAC  
((((((((((...(((.(((((&.....))))))....)))))))). -16.91

mir-124a ENSMUSG00000022500 3669 nt UTR 2 hits 333 386  
-----1-1-----

-----  
>ENSMUSG00000022500 hs-mir-124a 333 340

UUAAGGCACGCGGUGAAUGCCA&CAUUGGUGCCAGUCUCAAACCCGAAGCCACGAUUUGCCUAAU

.(((((((((((((.....(((&...))))).)))))). -19.20  
>ENSMUSG00000022500 hs-mir-124a 386 393  
UUAAGGCACGCGGUGAAUGCCA&UUGGCUUGAUCUAUUCUCAUCCUGAGACAGAGCCUGCCUAAA  
(((((((((((((.....(((&...))))).)))))). -21.94  
mir-124a ENSRNOG00000002520 3467 nt UTR 2 hits 370 434

-----1--1-----  
-----  
>ENSRNOG00000002520 hs-mir-124a 370 377  
UUAAGGCACGCGGUGAAUGCCA&UCCUGGUGCCAGGCUCAAAACCCGAAGCUACAGUUUGCCUUAU  
.(((((((((((((.....(((&...))))).)))))). -22.10  
>ENSRNOG00000002520 hs-mir-124a 434 441  
UUAAGGCACGCGGUGAAUGCCA&UGUACCAUCUCUCCAGCCUAAUGACAGAGACCUUGCCUAAA  
(((((((((((((.....(((&...))))).)))))). -17.70

miRNA: mir-124a  
Human predicted target: ENSG00000168610  
Mouse predicted target: ENSMUSG00000004040  
Rat predicted target: ENSRNOG00000019742  
Hs Gene description: SIGNAL TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION 3  
(ACUTE-PHASE RESPONSE FACTOR). [Source:SWISSPROT;Acc:P40763] NM\_003150  
mir-124a ENSG00000168610 2897 nt UTR 2 hits 1209 2546

-----1-----  
-----  
>ENSG00000168610 hs-mir-124a 1209 1216  
UUAAGGCACGCGGUGAAUGCCA&AUCUGCUGUUUCAGAGGCUAGGUUGUUUCUGUGGGUGCCUUAU  
.(((((((((((((.....(((&...))))).)))))). -25.50  
>ENSG00000168610 hs-mir-124a 2546 2553  
UUAAGGCACGCGGUGAAUGCCA&GAUAAGGGCCGAAAGGGUCUUGAGAGGAGGUGGUUGCCUAAU  
(((((((((((((.....(((&...))))).)))))). -15.80  
mir-124a ENSMUSG00000004040 2469 nt UTR 2 hits 827 966

-----1--1-----  
-----  
>ENSMUSG00000004040 hs-mir-124a 827 834  
UUAAGGCACGCGGUGAAUGCCA&CCAGACCCUGUUUCAGGGUCAGCCUGCCCUGUGGGUGCCUUAU  
.(((((((((((((.....(((&...))))).)))))). -23.21  
>ENSMUSG00000004040 hs-mir-124a 966 973  
UUAAGGCACGCGGUGAAUGCCA&GAAUCCUGCCUCAGGACCUUGUGUCGAGAGGGAUUGCCUUAU  
.(((((((((((((.....(((&...))))).)))))). -16.50  
mir-124a ENSRNOG00000019742 2583 nt UTR 2 hits 1359 1497

-----1--1-----  
-----  
>ENSRNOG00000019742 hs-mir-124a 1359 1366  
UUAAGGCACGCGGUGAAUGCCA&CUGGACCCUGUUCAGGGUCAUCCUGCCCUGUGGGUGCCUUAU  
.(((((((((((((.....(((&...))))).)))))). -24.11  
>ENSRNOG00000019742 hs-mir-124a 1497 1504  
UUAAGGCACGCGGUGAAUGCCA&GAAUCCUGUCUCAGAACCUUGUGUCGAGAGGGAUUGCCUUAU  
(((((((((((((.....(((&...))))).)))))). -16.20



miRNA: mir-125a

Human predicted target: ENSG00000043143

Mouse predicted target: ENSMUSG00000020387

Rat predicted target: ENSRNOG0000004956

Hs Gene description: NM\_015288

mir-125a ENSG00000043143 3883 nt UTR 3 hits 546 3137 3632

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

>ENSG00000043143 hs-mir-125a 546 553  
UCCUGAGACCCUUUAACCUGUG&GUGACUCAUGGACCUCACGUGCUUCCUCCAGAGAUCUCAGGGAG  
((((((((((..((((.....&.....)))))))).))))). -  
22.40

>ENSG00000043143 hs-mir-125a 3137 3144  
UCCUGAGACCCUUUAACCUGUG&GGGUUCCAGAAUCCUCCUGAGCUGUGCCAUUUACUCAGGGGA  
((((((((((.....((..((.&.....)))))).)).....))))). -  
18.39

>ENSG00000043143 hs-mir-125a 3632 3639  
UCCUGAGACCCUUUAACCUGUG&UGAAGAGUUUCAGUAGAGUGGCCCCAGGGUGAUAGCUCAGGGAA  
((((((((((((.....((.....&.....)).....))))).)).....))))). -  
25.90

mir-125a ENSMUSG00000020387 2000 nt UTR 3 hits 291 696 1197

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

>ENSMUSG00000020387 hs-mir-125a 291 298  
UCCUGAGACCCUUUAACCUGUG&CUUCUGGCUUGAUGUAGACAAGGUGAGGGAGAGAGCUCAGGGC  
((((((((((.....((.....&.....)))))).)).....))))). -27.10

>ENSMUSG00000020387 hs-mir-125a 696 703  
UCCUGAGACCCUUUAACCUGUG&GGGUUCCUGGAUCCUCCUGAGCUGUGUUCUUUACUCAGGGGA  
((((((((((.....((.....&.....))))).)).....))))). -  
19.87

>ENSMUSG00000020387 hs-mir-125a 1197 1204  
UCCUGAGACCCUUUAACCUGUG&GAGUUUUGAUGGAGUGGCCCCAGGGUGAUAGAUAGCUCAGGGAA  
((((((((((.....((.....&.....))))).)).....))))). -  
25.20

mir-125a ENSRNOG0000004956 2000 nt UTR 3 hits 292 696 1196

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

>ENSRNOG0000004956 hs-mir-125a 292 299  
UCCUGAGACCCUUUAACCUGUG&CUUCUGGCUUGAUGUAGACGAGGUGAGGGAGAGAGCUCAGGGC  
((((((((((.....((.....&.....)))))).)).....))))). -27.10

>ENSRNOG0000004956 hs-mir-125a 696 703  
UCCUGAGACCCUUUAACCUGUG&AGGUUCCAGAAACCUUCUGAGCUGUGUUCUUUACUCAGGGGA  
((((((((((.....((.....&.....))))).)).....))))). -  
18.39

>ENSRNOG0000004956 hs-mir-125a 1196 1203

UCCUGAGACCCUUUAACCUGUG&GAGUUUUGAUGGAGUGGCCCCAGGGUGAUAGAUAGCUCAGGGAA  
((((((((((...((((((...&.....)))))))).)))).).....)))). -  
25.20

miRNA: mir-125a

Human predicted target: ENSG00000116017

Mouse predicted target: ENSMUSG00000019564

Rat predicted target: ENSRNOG00000012319

Hs Gene description: DEAD RINGER LIKE-1 PROTEIN (B-CELL REGULATOR OF IGH  
TRANSCRIPTION) (BRIGHT). [Source:SWISSPROT;Acc:Q99856] NM\_005224

mir-125a ENSG00000116017 2742 nt UTR 3 hits 1439 1541 2195

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

>ENSG00000116017 hs-mir-125a 1439 1446  
UCCUGAGACCCUUUAACCUGUG&GGGGUGGUUCUUGUCGAAGCCCCAGGCUCUCAGGGAU  
((((((((((...((((((...&.....)))))))).)))).).....)))). -  
27.10

>ENSG00000116017 hs-mir-125a 1541 1548  
UCCUGAGACCCUUUAACCUGUG&UCAAUACUGGGGAGUGGGGUGAAGCCGGACCUCACUCAGGGU  
.((((((((((...((((((...&.....)))))))).)))).).....)))). -26.03

>ENSG00000116017 hs-mir-125a 2195 2202  
UCCUGAGACCCUUUAACCUGUG&UCUUUGGGGAGGGGACCCACUUCUUCUGGAUCUCAGGGC  
.((((((((((...((((((...&.....)))))))).)))).).....)))). -25.15

mir-125a ENSMUSG00000019564 4767 nt UTR 7 hits 951 1026 1884 2120  
2307 2343 3334

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

>ENSMUSG00000019564 hs-mir-125a 951 958  
UCCUGAGACCCUUUAACCUGUG&GUAGGGGAGCCAUGGAGUGCAGUGGCCUUCUGUGCCUCAGGGAU  
((((((((((...((((((...&.....)))))))).)))).).....)))). -  
21.80

>ENSMUSG00000019564 hs-mir-125a 1026 1033  
UCCUGAGACCCUUUAACCUGUG&UUGCUUUCAGAGACAGAUGCAACAACGGGCCUAGCUCAGGGC  
.((((((((((...((((((...&.....)))))))).)))).).....)))). -21.54

>ENSMUSG00000019564 hs-mir-125a 1884 1891  
UCCUGAGACCCUUUAACCUGUG&AACCCUGUCCAAAGUCCACCUCCAUGGGUACUGGCUCAGGGAU  
((((((((((...((((((...&.....)))))))).)))).).....)))). -  
28.40

>ENSMUSG00000019564 hs-mir-125a 2120 2127  
UCCUGAGACCCUUUAACCUGUG&AGGCUCUGUGAGUGACCAGAAGCGCCAGAUCUAACUCAGGGGA  
((((((((((...&.....)))))))).).....)))). -  
18.70

>ENSMUSG00000019564 hs-mir-125a 2307 2314  
UCCUGAGACCCUUUAACCUGUG&GGUCAGAGCUGGGGUCGUUACUGUCCACCUCCUGGUACCUCAGGGC  
.((((((((((...((((((...&.....)))))))).)))).).....)))). -22.55  
>ENSMUSG00000019564 hs-mir-125a 2343 2350

UCCUGAGACCCUUUAACCUGUG&UCAGGGCUUGGCGUGGGGCAGGUGAGACACCCAAACUCAGGGC  
.(((((((.....(((((&.....)))))).....))))). -23.75  
>ENSMUSG00000019564 hs-mir-125a 3334 3341  
UCCUGAGACCCUUUAACCUGUG&CUGUGUGCAAGGUUUUCCCUUCCACCCCAUCGGUCUCAGGGAC  
(((((((.....(((((&.....)))))).....))))). -  
28.95  
mir-125a ENSRNOG00000012319 2000 nt UTR 3 hits 988 1048 1837  
-----1-1-----  
1-----  
>ENSRNOG00000012319 hs-mir-125a 988 995  
UCCUGAGACCCUUUAACCUGUG&UAGCGGAGCACAGGGAAUACAAUGUCCUCAGGUGUCUCAGGGAU  
(((((((.....(((((&.....)))))).....))))). -  
33.51  
>ENSRNOG00000012319 hs-mir-125a 1048 1055  
UCCUGAGACCCUUUAACCUGUG&CUUGCCUGGAUGGGUUGCAGAGGCAACAGGCUUAGCUCAGGGC  
.(((((((.....(((((&.....)))))).....))))). -25.52  
>ENSRNOG00000012319 hs-mir-125a 1837 1844  
UCCUGAGACCCUUUAACCUGUG&AACCCUGUCCAAAGUCCGCCUCCAUGGGUAACCGGCUCAGGGAU  
(((((((.....(((((&.....)))))).....))))). -  
28.30

miRNA: mir-125a

Human predicted target: ENSG00000126929

Mouse predicted target: ENSMUSG00000035011

Rat predicted target: ENSRNOG00000020161

Hs Gene description: HIV-1 INDUCER OF SHORT TRANSCRIPTS BINDING PROTEIN;  
LYMPHOMA RELATED FACTOR. [Source:RefSeq;Acc:NM\_015898] NM\_015898

mir-125a ENSG00000126929 2000 nt UTR 3 hits 686 942 1806

-----1-----1-----1-----1-----  
-----  
>ENSG00000126929 hs-mir-125a 686 693  
UCCUGAGACCCUUUAACCUGUG&AAUGGGCCCCGUCGCCCGACCCGCACCCUCCUCCUCAGGGC  
.(((((((.....(((((&.....)))))).....))))). -17.15  
>ENSG00000126929 hs-mir-125a 942 949  
UCCUGAGACCCUUUAACCUGUG&GCACUUACAACCGGCGGGACCCCCAGGGACCACCCUCAGGGC  
.(((((((.....(((((&.....)))))).....))))). -24.90  
>ENSG00000126929 hs-mir-125a 1806 1813  
UCCUGAGACCCUUUAACCUGUG&UUCUGUCCACGGGUCUCUCCUCCUCCUCCUAGCUCAGGGAU  
(((((((.....(((((&.....)))))).....))))). -  
23.29  
mir-125a ENSMUSG00000035011 3160 nt UTR 4 hits 390 605 1192 1346  
-----1-----1-----1-----1-----  
-----  
>ENSMUSG00000035011 hs-mir-125a 390 397  
UCCUGAGACCCUUUAACCUGUG&AUGAGUGGACGUUAAAUGGUCCCCACCCUCCUCCUCAGGGC  
.(((((((.....(((((&.....)))))).....))))). -19.83  
>ENSMUSG00000035011 hs-mir-125a 605 612

```

UCCUGAGACCCUUUAACCUGUG&GGCACUUAACACCUGACGGGGCCCUCGGGGCCACUGCUCAGGGC
.(((((((.....((((&.....)))))).....))))). -27.40
>ENSMUSG00000035011 hs-mir-125a 1192 1199
UCCUGAGACCCUUUAACCUGUG&CAUCGCUCCGGUAGAAUCCACUUGCGCUCGAGACUCAGGGU
.(((((((.....((((&.....)))))).....))))). -17.30
>ENSMUSG00000035011 hs-mir-125a 1346 1353
UCCUGAGACCCUUUAACCUGUG&UGGGAGCCGCAGGCCACCUGUGCUGUCCUCCCAGCUCAGGGAU
(((((((.....((((&.....)))))).....))))). -
22.65
mir-125a ENSRNOG00000020161 2038 nt UTR 4 hits 395 607 1203 1373
-----1-----1-----1-----1-----
-----
>ENSRNOG00000020161 hs-mir-125a 395 402
UCCUGAGACCCUUUAACCUGUG&ACGUUAAAUGGUCCCCAGCUCCCCACCCUCCUCCUCAGGGC
.(((((((.....((((&.....)))))).....))))). -19.34
>ENSRNOG00000020161 hs-mir-125a 607 614
UCCUGAGACCCUUUAACCUGUG&GGCACUUAAGACCUGACGGGGUCCUUGGGGCCACUGCUCAGGGC
.(((((((.....((((&.....)))))).....))))). -28.10
>ENSRNOG00000020161 hs-mir-125a 1203 1210
UCCUGAGACCCUUUAACCUGUG&CAUUGCUCCGGUAGAAUCCGCUUGCGUCCCAAGACUCAGGGC
.(((((((.....((((&.....)))))).....))))). -17.84
>ENSRNOG00000020161 hs-mir-125a 1373 1380
UCCUGAGACCCUUUAACCUGUG&UGGGAGCCGCAGGCCACCUGUCCUGUCCUCCCAGCUCAGGGAU
(((((((.....((((&.....)))))).....))))). -
22.65

```

miRNA: mir-125a

Human predicted target: ENSG00000128342

Mouse predicted target: ENSMUSG00000034394

Rat predicted target: ENSRNOG00000007002

Hs Gene description: LEUKEMIA INHIBITORY FACTOR PRECURSOR (LIF)  
(DIFFERENTIATION- STIMULATING FACTOR) (D FACTOR) (MELANOMA-DERIVED LPL  
INHIBITOR) (MLPLI). [Source:SWISSPROT;Acc:P15018] NM\_002309

mir-125a ENSG00000128342 5199 nt UTR 2 hits 1009 4961

```

-----1-----
-----
-----1-----
>ENSG00000128342 hs-mir-125a 1009 1016
UCCUGAGACCCUUUAACCUGUG&CAGGGCAAGGGAACAGCAGAACUUAGGGUCAGGGUCUCAGGGAA
(((((((.....((((&.....)))))).....))))). -
35.70
>ENSG00000128342 hs-mir-125a 4961 4968
UCCUGAGACCCUUUAACCUGUG&CCACCGCCAGGAGUGGAAACACUCCUCCCUCUGCUCAGGGAG
(((((((.....((((&.....)))))).....))))). -
22.11
mir-125a ENSMUSG00000034394 6931 nt UTR 3 hits 1096 2453 3775

```

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

>ENSMUSG00000034394 hs-mir-125a 1096 1103  
UCCUGAGACCCUUUAACCUGUG&CUGGAGCAUGGAGAAGCAGAACUUGAGGUCAGGGUCUCAGGGAA  
((((((((((((((...(((...&.....)))))).)))))))). -  
35.40

>ENSMUSG00000034394 hs-mir-125a 2453 2460  
UCCUGAGACCCUUUAACCUGUG&CUCUCUGGGCUCCGCCACCUGGCAGCUUGAAGGCUCAGGGAC  
((((((((((..(((((((..(((.&.....)))))).)))))))). -  
28.70

>ENSMUSG00000034394 hs-mir-125a 3775 3782  
UCCUGAGACCCUUUAACCUGUG&UCUGCAAGGCUUUUUUGGGGGGUACCGAUGGCUCUCAGGGAG  
((((((((((((((((((((((.&...)))).)).....)))))))). -  
28.50

mir-125a ENSRNOG00000007002 2142 nt UTR 2 hits 39 988  
-1-----1-----

>ENSRNOG00000007002 hs-mir-125a 39 46  
UCCUGAGACCCUUUAACCUGUG&ACAGGAGGUCUUGAGUAUACUGUGGACUGAGGGGUCUCAGGGGC  
(((((((((((((((((((..(((.&))))).)).....)))))))). -  
35.80

>ENSRNOG00000007002 hs-mir-125a 988 995  
UCCUGAGACCCUUUAACCUGUG&CUGGAGCAUGGAGAAGCAGAACUUGAGGUCAGGGUCUCAGGGAA  
((((((((((((((((((...(((...&.....)))))).)))))))). -  
35.40

miRNA: mir-125a  
Human predicted target: ENSG00000131067  
Mouse predicted target: ENSMUSG00000027603  
Rat predicted target: ENSRNOG00000018441  
Hs Gene description: GAMMA-GLUTAMYLTRANSFERASE-LIKE 3.  
[Source:RefSeq;Acc:NM\_052830]

mir-125a ENSG00000131067 2000 nt UTR 2 hits 76 559  
---1-----1-----

>ENSG00000131067 hs-mir-125a 76 83  
UCCUGAGACCCUUUAACCUGUG&AUGUCCAGAGUCCUCCUUCUCCAGGUUUGGUCUCAGGGGG  
((((((((((((((((((...(((...&.....)))))).)))))))). -  
33.20

>ENSG00000131067 hs-mir-125a 559 566  
UCCUGAGACCCUUUAACCUGUG&CCAGGGUAUGGGGUAGGGGUGGGGUGGGCACCAGCUCAGGGGC  
((((((((((((((((((...(((...&.....)))))).)))))))). -  
28.46

mir-125a ENSMUSG00000027603 2566 nt UTR 2 hits 75 519

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

>ENSMUSG00000027603 hs-mir-125a 75 82  
UCCUGAGACCCUUUAACCUGUG&AUGUUCCCAGAGUCCCUCUUUCUCCCAGGUUUGGUCUCAGGGGG  
((((((((((.....((((((..&.....)))))))).)))))))). -  
33.20

>ENSMUSG00000027603 hs-mir-125a 519 526  
UCCUGAGACCCUUUAACCUGUG&CCCAGGCAGCCACACAGGGGUGGGGUGGGUUAUCAGCUCAGGGGC  
((((((((((.....((((((&.....)))))))).)))))))). -  
33.10

mir-125a ENSRNOG00000018441 2576 nt UTR 2 hits 78 527

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

>ENSRNOG00000018441 hs-mir-125a 78 85  
UCCUGAGACCCUUUAACCUGUG&AUGUUCCCAGAGUCCCUCUCUCUCCCAGGUUUGGUCUCAGGGGG  
((((((((((.....((((((..&.....)))))))).)))))))). -  
33.20

>ENSRNOG00000018441 hs-mir-125a 527 534  
UCCUGAGACCCUUUAACCUGUG&CCAGGCAGCCGAGUAGGGGUGGGGUGGGUUAUCAGCUCAGGGGC  
((((((((((.....((((((..&.....)))))))).)))))))). -  
28.70

miRNA: mir-125a

Human predicted target: ENSG00000160613

Mouse predicted target: ENSMUSG00000035382

Rat predicted target: ENSRNOG00000017478

Hs Gene description: PROPROTEIN CONVERTASE SUBTILISIN/KEXIN TYPE 7  
PRECURSOR (EC 3.4.21.-) (PROPROTEIN CONVERTASE PC7) (SUBTILISIN/KEXIN-LIKE  
PROTEASE PC7) (PROHORMONE CONVERTASE PC7) (PC8) (HPC8) (LYMPHOMA  
PROPROTEIN CONVERTASE). [Source:SWISSPROT;Acc:Q16549] NM\_004716

mir-125a ENSG00000160613 2925 nt UTR 3 hits 723 1616 2730

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

>ENSG00000160613 hs-mir-125a 723 730  
UCCUGAGACCCUUUAACCUGUG&CAGUCCUGCCACCACCCUGUCUCCUCUGCAAGUGCUCAGGGAA  
((((((((((.....((((((&.....)))))))).)))))))). -  
20.00

>ENSG00000160613 hs-mir-125a 1616 1623  
UCCUGAGACCCUUUAACCUGUG&GAUGGCUGCAGCCAAGGAGCUGGGGGAGGGCCGGGCUCAGGGC  
((((((((((.....((((((..&.....)))))))).)))))))). -27.30

>ENSG00000160613 hs-mir-125a 2730 2737  
UCCUGAGACCCUUUAACCUGUG&CAGGCAUAGGGCAUAGGACGCAGCUUAGCAGUCAGCUCAGGGAU  
((((((((((.....((((((&.....)))))))).)))))))). -  
26.95

mir-125a ENSMUSG00000035382 2829 nt UTR 4 hits 687 1065 1522 2682

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

-----1-----

```

>ENSMUSG00000035382 hs-mir-125a      687      694
UCCUGAGACCCUUUAACCUGUG&ACUGUCUCUGACCACCUGUCUCCUCUGCACCGUGCUCAGGGAA
((((((((((.....&.....))))))))). -
19.90
>ENSMUSG00000035382 hs-mir-125a     1065     1072
UCCUGAGACCCUUUAACCUGUG&CGGCCAGGAACGUGUGAGCCCAACAUGCUCCACCCUCAGGGU
.((((((((((.....((.....((.....&.....))))))))))))). -17.05
>ENSMUSG00000035382 hs-mir-125a     1522     1529
UCCUGAGACCCUUUAACCUGUG&GGCAUUUGUGAGGCAGGCUAAGCAGGAUGCUGCAGCUCAGGGC
.((((((((((.....((.....((.....&.....))))))))))))). -24.60
>ENSMUSG00000035382 hs-mir-125a     2682     2689
UCCUGAGACCCUUUAACCUGUG&AAUCUGCCAGGUACAGAACAACUGAACACUCAGCUCAGGGAG
((((((((((.....((.....((.....&.....))))))))))))). -
22.00
mir-125a  ENSRNOG00000017478  2884 nt UTR    3 hits 682 1060 2664
-----1-----1-----
-----1-----
>ENSRNOG00000017478 hs-mir-125a      682      689
UCCUGAGACCCUUUAACCUGUG&CCUGCCUAUGACCACCUGUCUCCUCUGCAAAGUGCUCAGGGAA
((((((((((.....&.....))))))))). -
21.50
>ENSRNOG00000017478 hs-mir-125a     1060     1067
UCCUGAGACCCUUUAACCUGUG&GCGGUCAGGAACACGUGACCCCAUAUGCUCACCACCCUCAGGGU
.((((((((((.....((.....((.....&.....))))))))))))). -17.49
>ENSRNOG00000017478 hs-mir-125a     2664     2671
UCCUGAGACCCUUUAACCUGUG&AAUCUGACAGGUACAGAACAACAGCUGAACACUCAGCUCAGGGGU
((((((((((.....((.....&.....))))))))))))). -
22.65

```

```

miRNA: mir-125a
Human predicted target: ENSG00000166862
Mouse predicted target: ENSMUSG00000019146
Rat predicted target: ENSRNOG00000006226
Hs Gene description: VOLTAGE-DEPENDENT CALCIUM CHANNEL GAMMA-2 SUBUNIT
(NEURONAL VOLTAGE- GATED CALCIUM CHANNEL GAMMA-2 SUBUNIT).
[Source:SWISSPROT;Acc:Q9Y698] NM_006078
mir-125a  ENSG00000166862      2294 nt UTR    3 hits 583 912 1022
-----1-----1---1-----
-----
>ENSG00000166862 hs-mir-125a      583      590
UCCUGAGACCCUUUAACCUGUG&CGGGCCUGCCUCCUGGGAGAUUGGGGGGCGAGACUCAGGGGC
((((((((((.....&.....))))))))). -
26.50
>ENSG00000166862 hs-mir-125a      912      919
UCCUGAGACCCUUUAACCUGUG&CGGUGGCUUACCAAGAUGCCGGAAACCCGGAAUCCUCAGGGU
.((((((((((.....((.....&.....))))))))))))). -18.52
>ENSG00000166862 hs-mir-125a     1022     1029

```

UCCUGAGACCCUUUAACCUGUG&GGGACAUGAAACAGCUCUCCUCCUCACCCCUCACCUCAGGGC  
.(((((((.....&.....)))))). -17.20  
mir-125a ENSMUSG00000019146 2186 nt UTR 3 hits 655 992 1105  
-----1-----1-----1-----

>ENSMUSG00000019146 hs-mir-125a 655 662  
UCCUGAGACCCUUUAACCUGUG&GGGCCUGCCUCCGGGGAGAGUAAGGGGUAGAGACUCAGGGC  
.(((((((.....&.....)))))). -30.20

>ENSMUSG00000019146 hs-mir-125a 992 999  
UCCUGAGACCCUUUAACCUGUG&CUGGUGGCUCACAGAGAAGCCAGACCCCUGGAAUCCUCAGGGGG  
(((((((.....&.....)))))). -  
21.70

>ENSMUSG00000019146 hs-mir-125a 1105 1112  
UCCUGAGACCCUUUAACCUGUG&GGGAUAUAGAGCAGCCGUCCUCCUCACCCCUCACCUCAGGGC  
.(((((((.....&.....)))))). -16.73  
mir-125a ENSRNOG00000006226 2121 nt UTR 3 hits 668 998 1106  
-----1-----1-----1-----

>ENSRNOG00000006226 hs-mir-125a 668 675  
UCCUGAGACCCUUUAACCUGUG&GGGCCUGCCUCCGGGGAGAGUAGGGGGUAGAGACUCAGGGC  
.(((((((.....&.....)))))). -29.80

>ENSRNOG00000006226 hs-mir-125a 998 1005  
UCCUGAGACCCUUUAACCUGUG&CUAGUGGCUCACAGAGAAGCCAGACCCCUGGAAUCCUCAGGGGG  
(((((((.....&.....)))))). -  
21.70

>ENSRNOG00000006226 hs-mir-125a 1106 1113  
UCCUGAGACCCUUUAACCUGUG&GGGAUAUAGAGCAGCCUCCUCCUCACCCCUCACCUCAGGGC  
.(((((((.....&.....)))))). -16.73

miRNA: mir-125b

Human predicted target: ENSG00000043143

Mouse predicted target: ENSMUSG00000020387

Rat predicted target: ENSRNOG00000004956

Hs Gene description: NM\_015288

mir-125b ENSG00000043143 3883 nt UTR 3 hits 546 3137 3632  
-----1-----1-----1-----

>ENSG00000043143 hs-mir-125b 546 553  
UCCUGAGACCCUAACUUGUGA&GUGACUCAUGGACCUCACGUGCUUCCUCCAGAGAUCUCAGGGAG  
(((((((.....&.....)))))). -22.09

>ENSG00000043143 hs-mir-125b 3137 3144  
UCCUGAGACCCUAACUUGUGA&GGGUUCCAGAAUCCUCCUGAGCUGUGCCAUUUACUCAGGGGA  
(((((((.....&.....)))))). -18.70

>ENSG00000043143 hs-mir-125b 3632 3639  
UCCUGAGACCCUAACUUGUGA&UGAAGAGUUUCAGUAGAGUGGCCCCAGGGUGAUAGCUCAGGGAA  
(((((((.....&.....)))))). -26.20



```

mir-125b  ENSMUSG00000020387  2000 nt UTR    3 hits 291 696 1197
-----1-----1-----1-----
-----
>ENSMUSG00000020387 hs-mir-125b    291    298
UCCUGAGACCCUAACUUGUGA&CUUCUGGCUUGAUGUAGACAAGGUGAGGGAGAGAGCUCAGGGC
.(((((((.....((((.....&.....)))))).....))))). -28.00
>ENSMUSG00000020387 hs-mir-125b    696    703
UCCUGAGACCCUAACUUGUGA&GGGUUCCUGGAUCCUUCUGAGCUGUGUUCUUUACUCAGGGGA
(((((((.....((((.....&.....)))))).....))))). -19.10
>ENSMUSG00000020387 hs-mir-125b    1197   1204
UCCUGAGACCCUAACUUGUGA&GAGUUUUGAUGGAGUGGCCCCAGGGUGAUAGAUAGCUCAGGGAA
(((((((.....((((.....&.....)))))).....))))). -24.80
mir-125b  ENSRNOG00000004956  2000 nt UTR    3 hits 292 696 1196
-----1-----1-----1-----
-----
>ENSRNOG00000004956 hs-mir-125b    292    299
UCCUGAGACCCUAACUUGUGA&CUUCUGGCUUGAUGUAGACGAGGUGAGGGAGAGAGCUCAGGGC
.(((((((.....((((.....&.....)))))).....))))). -27.70
>ENSRNOG00000004956 hs-mir-125b    696    703
UCCUGAGACCCUAACUUGUGA&AGGUUCCAGAAACCUUUCUGAGCUGUGUUCUUUACUCAGGGGA
(((((((.....((((.....&.....)))))).....))))). -19.10
>ENSRNOG00000004956 hs-mir-125b    1196   1203
UCCUGAGACCCUAACUUGUGA&GAGUUUUGAUGGAGUGGCCCCAGGGUGAUAGAUAGCUCAGGGAA
(((((((.....((((.....&.....)))))).....))))). -24.80

miRNA: mir-125b
Human predicted target: ENSG00000104081
Mouse predicted target: ENSMUSG00000040093
Rat predicted target: ENSRNOG00000007529
Hs Gene description: BCL-2 MODIFYING FACTOR. [Source:RefSeq;Acc:NM_033503]
NM_033503
mir-125b  ENSG00000104081    5894 nt UTR    3 hits 627 1443 1837
-----1-----1-----
1-----
-----
>ENSG00000104081 hs-mir-125b    627    634
UCCUGAGACCCUAACUUGUGA&GGAUUCUGGCCAGCUCUGCCACCUCAGCAGACCUCAGGGAG
(((((((.....((((.....&.....)))))).....))))). -19.90
>ENSG00000104081 hs-mir-125b    1443   1450
UCCUGAGACCCUAACUUGUGA&CCAAAGGAAAGACGGCUUCCUGGACAAAGAAGACCUCAGGGC
.(((((((.....((((.....&.....)))))).....))))). -18.00
>ENSG00000104081 hs-mir-125b    1837   1844
UCCUGAGACCCUAACUUGUGA&UCUGGAUAUUACCUCUUCUUGGUCAGAAUUCUAUUCUCAGGGU
.(((((((.....((((.....&.....)))))).....))))). -19.22
mir-125b  ENSMUSG00000040093  2000 nt UTR    4 hits 466 507 1123 1664

```

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

>ENSMUSG00000040093 hs-mir-125b 466 473  
UCCUGAGACCCUAACUUGUGA&UCCACUUGGCACAGCCAGCGCCACCGCAUGGGCUCAGGGAU  
((((((((((.....(((&.....)))))))).))))). -28.10  
>ENSMUSG00000040093 hs-mir-125b 507 514  
UCCUGAGACCCUAACUUGUGA&GAUUCUACUCAGACGCUGUCAACUCCGGAAGACCUCAGGGAG  
((((((((((.....(((&.....)))))))).))))). -18.92  
>ENSMUSG00000040093 hs-mir-125b 1123 1130  
UCCUGAGACCCUAACUUGUGA&CCUGGGAGCUCCUCCUUCUCUCCCGCUGCAGUGCUCAGGGAG  
((((((((((.....(((&.....)))))))).))))). -21.70  
>ENSMUSG00000040093 hs-mir-125b 1664 1671  
UCCUGAGACCCUAACUUGUGA&GGAGAUAUUACCUCUUCUUGGCCACAAUCAUUUUCUCAGGGU  
.((((((((((.....(((&.....)))))))).))))). -22.84  
mir-125b ENSRNOG00000007529 4225 nt UTR 8 hits 475 516 1080 1605 2666  
2707 3341 3875

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

>ENSRNOG00000007529 hs-mir-125b 475 482  
UCCUGAGACCCUAACUUGUGA&UCCACUUGGCACAGCCAGUGCCACCGCAUGGGCUCAGGGAU  
((((((((((.....(((&.....)))))))).))))). -28.10  
>ENSRNOG00000007529 hs-mir-125b 516 523  
UCCUGAGACCCUAACUUGUGA&GAUUCUACUCAGUCGCUGUCAACCUCAGAAAGACCUCAGGGAG  
((((((((((.....(((&.....)))))))).))))). -20.00  
>ENSRNOG00000007529 hs-mir-125b 1080 1087  
UCCUGAGACCCUAACUUGUGA&CUCAGCUGCCUCCGACCUUCUUCUCCUUCUCUCCCGCUCAGGGAG  
((((((((((.....&.....)))))))). -19.30  
>ENSRNOG00000007529 hs-mir-125b 1605 1612  
UCCUGAGACCCUAACUUGUGA&UGGAGAUAUUACCUCUUCUUGGCCACAGUCAUUUUCUCAGGGU  
.((((((((((.....(((&.....)))))))).))))). -22.80  
>ENSRNOG00000007529 hs-mir-125b 2666 2673  
UCCUGAGACCCUAACUUGUGA&UCCACUUGGCACAGCCAGUGCCACCGCAUGGGCUCAGGGAU  
((((((((((.....(((&.....)))))))).))))). -28.10  
>ENSRNOG00000007529 hs-mir-125b 2707 2714  
UCCUGAGACCCUAACUUGUGA&GAUUCUACUCAGUCGCUGUCAACCUCAGAAAGACCUCAGGGAG  
((((((((((.....(((&.....)))))))).))))). -20.00  
>ENSRNOG00000007529 hs-mir-125b 3341 3348  
UCCUGAGACCCUAACUUGUGA&CCUCCGACCUUCUCCUUCUCUCCUGACGCAGCGCUCAGGGAG  
((((((((((.....(((&.....)))))))).))))). -21.10  
>ENSRNOG00000007529 hs-mir-125b 3875 3882  
UCCUGAGACCCUAACUUGUGA&UGGAGAUAUUACCUCUUCUUGGCCACAGUCAUUUUCUCAGGGU  
.((((((((((.....(((&.....)))))))).))))). -22.80

miRNA: mir-125b  
Human predicted target: ENSG00000116017  
Mouse predicted target: ENSMUSG00000019564

Rat predicted target: ENSRNOG00000012319

Hs Gene description: DEAD RINGER LIKE-1 PROTEIN (B-CELL REGULATOR OF IGH TRANSCRIPTION) (BRIGHT). [Source:SWISSPROT;Acc:Q99856] NM\_005224

mir-125b ENSG00000116017 2742 nt UTR 3 hits 1439 1541 2195

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

-----1-----

>ENSG00000116017 hs-mir-125b 1439 1446  
UCCUGAGACCCUAACUUGUGA&GGGGUGGUUCUUGUCGAAGCCCCAGGCUCUGUCUCAGGGAU  
((((((((((.....((((...&.....)))))).....)))))))). -25.60

>ENSG00000116017 hs-mir-125b 1541 1548  
UCCUGAGACCCUAACUUGUGA&UCAAUACUGGGGAGUGGGGGUGAAGCCGGACCUCACUCAGGGU  
((((((((((((((.....((((...&.....)))))).....)))))))). -25.43

>ENSG00000116017 hs-mir-125b 2195 2202  
UCCUGAGACCCUAACUUGUGA&UCUUUGGGGAGGGGACCCCCACUCCUUCUCGGAUCUCAGGGC  
((((((((((((((((.....((((...&.....)))))).....)))))))). -24.29

mir-125b ENSMUSG00000019564 4767 nt UTR 7 hits 951 1026 1884 2120  
2307 2343 3334

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

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

-----

>ENSMUSG00000019564 hs-mir-125b 951 958  
UCCUGAGACCCUAACUUGUGA&GUAGGGGAGCCAUGGAGUGCAGUGGCCUCCUGUGCCUCAGGGAU  
((((((((((.....&.....)))))).....)))))))). -22.71

>ENSMUSG00000019564 hs-mir-125b 1026 1033  
UCCUGAGACCCUAACUUGUGA&UUGC UUCAAGAGACAGAUGCAACAACGGGCCUAGCUCAGGGC  
((((((((((((.....&.....)))))).....)))))))). -22.40

>ENSMUSG00000019564 hs-mir-125b 1884 1891  
UCCUGAGACCCUAACUUGUGA&AACCCUGUCCAAGUCCACCUCCAUGGGUAACUGGCUCAGGGAU  
((((((((((((.....&.....)))))).....)))))))). -27.60

>ENSMUSG00000019564 hs-mir-125b 2120 2127  
UCCUGAGACCCUAACUUGUGA&AGGCUCUGUGAGUGACCAGAAGCGCCAGAUCUAACUCAGGGGA  
((((((((((((.....&.....)))))).....)))))))). -20.44

>ENSMUSG00000019564 hs-mir-125b 2307 2314  
UCCUGAGACCCUAACUUGUGA&GGUCAGAGCUGGGGUCGUUACUGUCCACCUCCUGGUACCUCAGGGC  
((((((((((((((((.....&.....)))))).....)))))))). -24.85

>ENSMUSG00000019564 hs-mir-125b 2343 2350  
UCCUGAGACCCUAACUUGUGA&UCAGGGCUUGGCGUGGGGCAGGUGAGACACCCAAACUCAGGGC  
((((((((((((.....&.....)))))).....)))))))). -22.46

>ENSMUSG00000019564 hs-mir-125b 3334 3341  
UCCUGAGACCCUAACUUGUGA&CUGUGUGCAAGGUUUUCCCUUCCACCCCAUCGGUCUCAGGGAC  
((((((((((((((((.....&.....)))))).....)))))))). -28.21

mir-125b ENSRNOG00000012319 2000 nt UTR 3 hits 988 1048 1837

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

1-----

>ENSRNOG00000012319 hs-mir-125b 988 995  
UCCUGAGACCCUAACUUGUGA&UAGCGGAGCACAGGGAAUACAAUGUCCUCAGGUGUCUCAGGGAU  
((((((((((((((((.....&.....)))))).....)))))))). -32.03

>ENSRNOG00000012319 hs-mir-125b 1048 1055

UCCUGAGACCCUAACUUGUGA&CUUGCCUGGAUGGGUUGCAGAGGCAACAGGCUUAGCUCAGGGC  
.(((((((.....(((((((.....)))))))).)))))))). -22.80  
>ENSRNOG00000012319 hs-mir-125b 1837 1844  
UCCUGAGACCCUAACUUGUGA&AACCCUGUCCAAGUCCGCCUCCAUGGGUAACCGGCUCAGGGAU  
(((((((.....(((((((.....)))))))).)))))))). -27.60

miRNA: mir-125b

Human predicted target: ENSG00000126929

Mouse predicted target: ENSMUSG00000035011

Rat predicted target: ENSRNOG00000020161

Hs Gene description: HIV-1 INDUCER OF SHORT TRANSCRIPTS BINDING PROTEIN;  
LYMPHOMA RELATED FACTOR. [Source:RefSeq;Acc:NM\_015898] NM\_015898

mir-125b ENSG00000126929 2000 nt UTR 3 hits 686 942 1806

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

>ENSG00000126929 hs-mir-125b 686 693  
UCCUGAGACCCUAACUUGUGA&AAUGGGCCCCGUCGCCCGACCCGCACCCUCCUCCUCAGGGC  
.(((((((.....(((((((.....)))))))).)))))))). -19.37

>ENSG00000126929 hs-mir-125b 942 949  
UCCUGAGACCCUAACUUGUGA&GCACUUAACAACCGGCGGGACCCCGAGGGACCCUCAGGGC  
.(((((((.....(((((((.....)))))))).)))))))). -21.30

>ENSG00000126929 hs-mir-125b 1806 1813  
UCCUGAGACCCUAACUUGUGA&UUCUGUCCACGGGGUCUCUCCUCCUCCUCCUAGCUCAGGGAU  
(((((((.....(((((((.....)))))))).)))))))). -23.75

mir-125b ENSMUSG00000035011 3160 nt UTR 4 hits 390 605 1192 1346  
-----1-----1-----1-----1-----1-----  
-----

>ENSMUSG00000035011 hs-mir-125b 390 397  
UCCUGAGACCCUAACUUGUGA&AUGAGUGGACGUUAAAUGGUCCCCACCCUCCUCCUCAGGGC  
.(((((((.....(((((((.....)))))))).)))))))). -16.99

>ENSMUSG00000035011 hs-mir-125b 605 612  
UCCUGAGACCCUAACUUGUGA&GGCACUUAACACCGACGGGGCCUCCGGGGCCACUGCUCAGGGC  
.(((((((.....(((((((.....)))))))).)))))))). -23.20

>ENSMUSG00000035011 hs-mir-125b 1192 1199  
UCCUGAGACCCUAACUUGUGA&CAUCGCUCCGGUAGAAUCCACUUGCGCUCCCGAGACUCAGGGU  
.(((((((.....(((((((.....)))))))).)))))))). -19.20

>ENSMUSG00000035011 hs-mir-125b 1346 1353  
UCCUGAGACCCUAACUUGUGA&UGGGAGCCGACGGCCACCGUGUGUCCUCCAGCUCAGGGAU  
(((((((.....(((((((.....)))))))).)))))))). -22.35

mir-125b ENSRNOG00000020161 2038 nt UTR 4 hits 395 607 1203 1373  
-----1-----1-----1-----1-----1-----  
-----

>ENSRNOG00000020161 hs-mir-125b 395 402  
UCCUGAGACCCUAACUUGUGA&ACGUUAAAUGGUCCCCAGCUCGCCACCCUCCUCCUCAGGGC  
.(((((((.....(((((((.....)))))))).)))))))). -17.37

>ENSRNOG00000020161 hs-mir-125b 607 614  
UCCUGAGACCCUAACUUGUGA&GGCACUUAAGACCGACGGGGUCCUUGGGGCCACUGCUCAGGGC

.((((((((((((((&.....)))))).....))))). -24.90  
>ENSRNOG00000020161 hs-mir-125b 1203 1210  
UCCUGAGACCCUAACUUGUGA&CAUUGCUCCGGUAGAAUCCGCUUGCGUCCCAAGACUCAGGGC  
.((((((((((((((&.....)))))).....))))). -17.57  
>ENSRNOG00000020161 hs-mir-125b 1373 1380  
UCCUGAGACCCUAACUUGUGA&UGGGAGCCGCAGGCCACCUGUCCUGUCCUCCAGCUCAGGGAU  
((((((((((((((&.....)))))).....))))). -22.35

miRNA: mir-125b

Human predicted target: ENSG00000128342

Mouse predicted target: ENSMUSG00000034394

Rat predicted target: ENSRNOG00000007002

Hs Gene description: LEUKEMIA INHIBITORY FACTOR PRECURSOR (LIF)  
(DIFFERENTIATION- STIMULATING FACTOR) (D FACTOR) (MELANOMA-DERIVED LPL  
INHIBITOR) (MLPLI). [Source:SWISSPROT;Acc:P15018] NM\_002309

mir-125b ENSG00000128342 5199 nt UTR 2 hits 1009 4961

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

>ENSG00000128342 hs-mir-125b 1009 1016  
UCCUGAGACCCUAACUUGUGA&CAGGGCAAGGGAACAGCAGAACUAGGGUCAGGGUCUCAGGGAA  
((((((((((((((&.....)))))).....))))). -34.90

>ENSMUSG00000128342 hs-mir-125b 4961 4968  
UCCUGAGACCCUAACUUGUGA&CCACCGCCAGGAGUGGAAACACUCCUCCUCUCAGGGAG  
((((((((((((((&.....)))))).....))))). -22.47

mir-125b ENSMUSG00000034394 6931 nt UTR 3 hits 1096 2453 3775  
-----1-----  
-----1-----

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

>ENSMUSG00000034394 hs-mir-125b 1096 1103  
UCCUGAGACCCUAACUUGUGA&CUGGAGCAUGGAGAAGCAGAACUUGAGGUCAGGGUCUCAGGGAA  
((((((((((((((&.....)))))).....))))). -35.10

>ENSMUSG00000034394 hs-mir-125b 2453 2460  
UCCUGAGACCCUAACUUGUGA&CUCUCUGGGCUCGCCCACCUGGCAGCUUUGAAGGCUCAGGGAC  
((((((((((((((&.....)))))).....))))). -22.00

>ENSMUSG00000034394 hs-mir-125b 3775 3782  
UCCUGAGACCCUAACUUGUGA&UCUGCAAGGCUUUUUUGGGGGGGUACCGAUGGCUCUCAGGGAG  
((((((((((((((&.....)))))).....))))). -28.33

mir-125b ENSRNOG00000007002 2142 nt UTR 2 hits 39 988  
-----1-----  
-----1-----

>ENSRNOG00000007002 hs-mir-125b 39 46  
UCCUGAGACCCUAACUUGUGA&ACAGGAGGUCUUGAGUAUACUGUGGACUGAGGGGUCUCAGGGGC  
((((((((((((((&.....)))))).....))))). -31.51

>ENSRNOG00000007002 hs-mir-125b 988 995  
UCCUGAGACCCUAACUUGUGA&CUGGAGCAUGGAGAAGCAGAACUUGAGGUCAGGGUCUCAGGGAA

(((((((((((((((((((((.....&.....)))))))).)))))))). -35.10

miRNA: mir-125b

Human predicted target: ENSG00000131067

Mouse predicted target: ENSMUSG00000027603

Rat predicted target: ENSRNOG00000018441

Hs Gene description: GAMMA-GLUTAMYLTRANSFERASE-LIKE 3.

[Source:RefSeq;Acc:NM\_052830]

mir-125b ENSG00000131067 2000 nt UTR 2 hits 76 559

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

>ENSG00000131067 hs-mir-125b 76 83  
UCCUGAGACCCUAACUUGUGA&AUGUUCCAGAGUCCCUCCUUCUCCAGGUUUGGUCUCAGGGGG  
(((((((((((((((((.....&.....)))))))).)))))))). -32.30

>ENSG00000131067 hs-mir-125b 559 566  
UCCUGAGACCCUAACUUGUGA&CCAGGGUAUGGGGUAGGGGUGGGGGUGGGGCACCAGCUCAGGGGC  
(((((((((((((((((.....&.....)))))))).)))))))). -27.87

mir-125b ENSMUSG00000027603 2566 nt UTR 2 hits 75 519  
--1-----1-----  
-----

>ENSMUSG00000027603 hs-mir-125b 75 82  
UCCUGAGACCCUAACUUGUGA&AUGUUCCAGAGUCCCUCCUUCUCCAGGUUUGGUCUCAGGGGG  
(((((((((((((((((.....&.....)))))))).)))))))). -32.30

>ENSMUSG00000027603 hs-mir-125b 519 526  
UCCUGAGACCCUAACUUGUGA&CCCAGGCAGCCACACAGGGGUGGGGUGGGUAUCAGCUCAGGGGC  
(((((((((((((((((.....&.....)))))))).)))))))). -32.90

mir-125b ENSRNOG00000018441 2576 nt UTR 2 hits 78 527  
---1-----1-----  
-----

>ENSRNOG00000018441 hs-mir-125b 78 85  
UCCUGAGACCCUAACUUGUGA&AUGUUCCAGAGUCCCUCCUUCUCCAGGUUUGGUCUCAGGGGG  
(((((((((((((((((.....&.....)))))))).)))))))). -32.30

>ENSRNOG00000018441 hs-mir-125b 527 534  
UCCUGAGACCCUAACUUGUGA&CCAGGCAGCCGAGUAGGGGUGGGGUGGGUAUCAGCUCAGGGGC  
(((((((((((((((((.....&.....)))))))).)))))))). -28.06

miRNA: mir-125b

Human predicted target: ENSG00000160613

Mouse predicted target: ENSMUSG00000035382

Rat predicted target: ENSRNOG00000017478

Hs Gene description: PROPROTEIN CONVERTASE SUBTILISIN/KEXIN TYPE 7  
PRECURSOR (EC 3.4.21.-) (PROPROTEIN CONVERTASE PC7) (SUBTILISIN/KEXIN-LIKE  
PROTEASE PC7) (PROHORMONE CONVERTASE PC7) (PC8) (HPC8) (LYMPHOMA  
PROPROTEIN CONVERTASE). [Source:SWISSPROT;Acc:Q16549] NM\_004716

mir-125b ENSG00000160613 2925 nt UTR 3 hits 723 1616 2730

```

-----1-----1-----
-----1-----
>ENSG00000160613 hs-mir-125b      723      730
UCCUGAGACCCUAACUUGUGA&CAGUCCUGCCACCACCCUGUCUCCUCUGCAAGUGCUCAGGGAA
((((((((.....(((((.&.....)))))))).))))). -25.00
>ENSG00000160613 hs-mir-125b     1616     1623
UCCUGAGACCCUAACUUGUGA&GAUGGCUGCAGCCAAGGAGCUGGGGGAGGGCCGGGCUCAGGGC
.(((((((((.(((..(((..&.....)))))).))).....))))). -25.70
>ENSG00000160613 hs-mir-125b     2730     2737
UCCUGAGACCCUAACUUGUGA&CAGGCAUAGGGCAUAGGACGCAGCUUAGCAGUCAGCUCAGGGAU
(((((((((.(((..(((..&)))..))).....)))))))). -24.91
mir-125b  ENSMUSG00000035382  2829 nt UTR    4 hits 687 1065 1522 2682
-----1-----1-----1-----
-----1-----1-----
>ENSMUSG00000035382 hs-mir-125b    687      694
UCCUGAGACCCUAACUUGUGA&ACUGUCUCUGACCACCCUGUCUCCUCUGCACCGUGCUCAGGGAA
(((((((((.(((..(((..&.....)))))).))).....))))). -20.40
>ENSMUSG00000035382 hs-mir-125b   1065     1072
UCCUGAGACCCUAACUUGUGA&CGGCCAGGAACGUGUGAGCCCAACAUGCUUCCACCCUCAGGGU
.(((((((((.(((..(((..&.....)))))).))).....))))). -17.11
>ENSMUSG00000035382 hs-mir-125b   1522     1529
UCCUGAGACCCUAACUUGUGA&GGCAUUGUGAGGCAGGCUAAGCAGGAUGCUGCAGCUCAGGGC
.(((((((((.(((..(((..&.....)))))).))).....))))). -21.25
>ENSMUSG00000035382 hs-mir-125b   2682     2689
UCCUGAGACCCUAACUUGUGA&AAUCUGCCAGGUACAGAACACAACUGAACACUCAGCUCAGGGAG
(((((((((.(((..(((..&.....)))))).))).....))))). -22.05
mir-125b  ENSRNOG00000017478  2884 nt UTR    3 hits 682 1060 2664
-----1-----1-----
-----1-----1-----
>ENSRNOG00000017478 hs-mir-125b    682      689
UCCUGAGACCCUAACUUGUGA&CCUGCCUAUGACCACCCUGUCUCCUCUGCAAAGUGCUCAGGGAA
(((((((((.(((..(((..&.....)))))).))).....))))). -21.20
>ENSRNOG00000017478 hs-mir-125b   1060     1067
UCCUGAGACCCUAACUUGUGA&GCGGUCAGGAACACGUGACCCCAUAUGCUCCCACCCUCAGGGU
.(((((((((.(((..(((..&)))..))).....)))))))). -17.69
>ENSRNOG00000017478 hs-mir-125b   2664     2671
UCCUGAGACCCUAACUUGUGA&AAUCUGACAGGUACAGAACACAGCUGAACACUCAGCUCAGGGGU
(((((((((.(((..(((..&.....)))))).))).....))))). -19.85

```

miRNA: mir-125b

Human predicted target: ENSG00000166862

Mouse predicted target: ENSMUSG00000019146

Rat predicted target: ENSRNOG00000006226

Hs Gene description: VOLTAGE-DEPENDENT CALCIUM CHANNEL GAMMA-2 SUBUNIT  
(NEURONAL VOLTAGE- GATED CALCIUM CHANNEL GAMMA-2 SUBUNIT).

[Source:SWISSPROT;Acc:Q9Y698] NM\_006078

mir-125b ENSG00000166862 2294 nt UTR 3 hits 583 912 1022

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

>ENSG00000166862 hs-mir-125b 583 590  
UCCUGAGACCCUAACUUGUGA&CGGGCCUGCCUCCUGGGAGAUUGGGGGCGAGACUCAGGGGC  
(((((((.(((((((.(..&.....).)))..))))).)))). -25.80

>ENSG00000166862 hs-mir-125b 912 919  
UCCUGAGACCCUAACUUGUGA&CGGUGGCUUACCAAGAUGCCGGAAACCCCGGAAUCCUCAGGGU  
(((((((.(.(.....&.....).)))).)))). -17.80

>ENSG00000166862 hs-mir-125b 1022 1029  
UCCUGAGACCCUAACUUGUGA&GGGACAUGAAACAGCUCUCCUCCUCACCCUCACCUCAGGGC  
(((((((.(.....(((&.....).)))).)))). -17.53

mir-125b ENSMUSG00000019146 2186 nt UTR 3 hits 655 992 1105  
-----1-----1---1-----

>ENSMUSG00000019146 hs-mir-125b 655 662  
UCCUGAGACCCUAACUUGUGA&GGGCCUGCCUCCCGGGGAGAGUAAGGGGUAGAGACUCAGGGC  
(((((((.((((.(.....&.....).)))).)))). -24.70

>ENSMUSG00000019146 hs-mir-125b 992 999  
UCCUGAGACCCUAACUUGUGA&CUGGUGGCUCACAGAGAAGCCAGACCCUGGAAUCCUCAGGGGG  
(((((((.(.(.....(((&.....).)))).)))). -20.21

>ENSMUSG00000019146 hs-mir-125b 1105 1112  
UCCUGAGACCCUAACUUGUGA&GGGAUAUAGAGCAGCCGUCCUCCUCACCCUCACCUCAGGGC  
(((((((.(.....(((&.....).)))).)))). -17.53

mir-125b ENSRNOG00000006226 2121 nt UTR 3 hits 668 998 1106  
-----1-----1---1-----

>ENSRNOG00000006226 hs-mir-125b 668 675  
UCCUGAGACCCUAACUUGUGA&GGGCCUGCCUCCCGGGGAGAGUAAGGGGUAGAGACUCAGGGC  
(((((((.((((.(.....&.....).)))).)))). -24.50

>ENSRNOG00000006226 hs-mir-125b 998 1005  
UCCUGAGACCCUAACUUGUGA&CUAGUGGCUCACAGAGAAGCCAGACCCUGGAAUCCUCAGGGGG  
(((((((.(.(.....(((&.....).)))).)))). -20.21

>ENSRNOG00000006226 hs-mir-125b 1106 1113  
UCCUGAGACCCUAACUUGUGA&GGGAUAUAGAGCAGCCUCCUCCUCACCCUCACCUCAGGGC  
(((((((.(.....(((&.....).)))).)))). -17.53

miRNA: mir-128b  
Human predicted target: ENSG00000055070  
Mouse predicted target: ENSMUSG00000040842  
Rat predicted target: ENSRNOG00000009183  
Hs Gene description: NM\_015609  
mir-128b ENSG00000055070 5002 nt UTR 4 hits 121 145 167 197  
----1111-----

>ENSG00000055070 hs-mir-128b 121 128  
UCACAGUGAACCGGUCUCUUUC&UGGACUUGAGCAGAGGGAACGACCUGACUUAUUGCACUGUGAU



((((((((.....(((((((((((&.....)))))).....)))))))). -23.26  
>ENSG00000055070 hs-mir-128b 145 152  
UCACAGUGAACCGGUCUCUUUC&UGACUUACUUGCACUGUGAUCCCCCUUGCUCGCCACUGUGAC  
((((((((.....((((((((((.....&.....)))))).....)))))))). -19.30  
>ENSG00000055070 hs-mir-128b 167 174  
UCACAGUGAACCGGUCUCUUUC&CCCUUGCUCGCCACUGUGACCUUGAACCCCAUGCACUGUGAC  
((((((((.....((.....&.....)))))).....)))))). -20.20  
>ENSG00000055070 hs-mir-128b 197 204  
UCACAGUGAACCGGUCUCUUUC&CCAUGCACUGUGACCUCCCCCUUCCCUUCCACUGUGAU  
((((((((.....(((.....&.....)))))).....)))))). -18.25  
mir-128b ENSMUSG00000040842 2000 nt UTR 4 hits 118 142 164 192  
----1111-----  
-----  
>ENSMUSG00000040842 hs-mir-128b 118 125  
UCACAGUGAACCGGUCUCUUUC&UGGACUUGAGCAGAGGGAAUAACCUGACUUACUUGCACUGUGAU  
((((((((.....((((((((((&.....)))))).....)))))).....)))))). -22.01  
>ENSMUSG00000040842 hs-mir-128b 142 149  
UCACAGUGAACCGGUCUCUUUC&UGACUUACUUGCACUGUGAUCCCCCUUGCUCGCCACUGUGAC  
((((((((.....((((((((((.....&.....)))))).....)))))).....)))))). -19.30  
>ENSMUSG00000040842 hs-mir-128b 164 171  
UCACAGUGAACCGGUCUCUUUC&CCCUUGCUCGCCACUGUGACCUUGAACCCCAUGCACUGUGAC  
((((((((.....((.....&.....)))))).....)))))). -20.20  
>ENSMUSG00000040842 hs-mir-128b 192 199  
UCACAGUGAACCGGUCUCUUUC&CCCAUGCACUGUGACCUCUGCCUCCCCCUUCCACUGUGAU  
((((((((.....(((.....&.....)))))).....)))))). -18.35  
mir-128b ENSRNOG00000009183 2530 nt UTR 8 hits 116 140 162 190 640  
664 686 714  
----1111-----1111-----  
-----  
>ENSRNOG00000009183 hs-mir-128b 116 123  
UCACAGUGAACCGGUCUCUUUC&UGGACUUGAGCAGAGGGAAUAACCUGACUUACUUGCACUGUGAU  
((((((((.....((((((((((&.....)))))).....)))))).....)))))). -22.01  
>ENSRNOG00000009183 hs-mir-128b 140 147  
UCACAGUGAACCGGUCUCUUUC&UGACUUACUUGCACUGUGAUCCCCCUUGCUCGCCACUGUGAC  
((((((((.....((((((((((.....&.....)))))).....)))))).....)))))). -19.30  
>ENSRNOG00000009183 hs-mir-128b 162 169  
UCACAGUGAACCGGUCUCUUUC&CCCUUGCUCGCCACUGUGACCUUGAACCCCAUGCACUGUGAC  
((((((((.....((.....&.....)))))).....)))))). -20.20  
>ENSRNOG00000009183 hs-mir-128b 190 197  
UCACAGUGAACCGGUCUCUUUC&CCCAUGCACUGUGACCUCUGCCUCCCCCUUCCACUGUGAU  
((((((((.....(((.....&.....)))))).....)))))). -18.35  
>ENSRNOG00000009183 hs-mir-128b 640 647  
UCACAGUGAACCGGUCUCUUUC&UGGACUUGAGCAGAGGGAAUAACCUGACUUACUUGCACUGUGAU  
((((((((.....((((((((((&.....)))))).....)))))).....)))))). -22.01  
>ENSRNOG00000009183 hs-mir-128b 664 671  
UCACAGUGAACCGGUCUCUUUC&UGACUUACUUGCACUGUGAUCCCCCUUGCUCGCCACUGUGAC  
((((((((.....((((((((((.....&.....)))))).....)))))).....)))))). -19.30  
>ENSRNOG00000009183 hs-mir-128b 686 693

UCACAGUGAACCGGUCUCUUUC&CCCUUGCUCGCCCACUGUGACCUUGAACCCCAUGCACUGUGAC  
((((((((.....((..((.....&.....)))))))).)).....)))). -20.20  
>ENSRNOG0000009183 hs-mir-128b 714 721  
UCACAGUGAACCGGUCUCUUUC&CCCAUGCACUGUGACCUCGCCUCCCCCUUCCACUGUGAU  
((((((((.....(((..((.....&.....)))))))).)).....)))). -18.35

miRNA: mir-128b

Human predicted target: ENSG00000070614

Mouse predicted target: ENSMUSG00000024607

Rat predicted target: ENSRNOG00000019014

Hs Gene description: HEPARAN SULFATE N-DEACETYLASE/N-SULFOTRANSFERASE (EC 2.8.2.8) (N-HSST) (HSNST) ([HEPARAN SULFATE]-GLUCOSAMINE N-SULFOTRANSFERASE) (N-HEPARAN SULFATE SULFOTRANSFERASE) (GLUCOSAMINYL N-DEACETYLASE/N-SULFOTRANSFERASE). [Source:SWISSPROT;Acc:P52848] NM\_001543

mir-128b ENSG00000070614 2555 nt UTR 3 hits 303 996 2108

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

>ENSG00000070614 hs-mir-128b 303 310  
UCACAGUGAACCGGUCUCUUUC&GUAGGAGGGAGUCCACGAGACUCUUUUCUGUCCUCACUGUGU  
.((((((((.....((..((((((&.....)))))))).)).....)))). -22.90

>ENSG00000070614 hs-mir-128b 996 1003  
UCACAGUGAACCGGUCUCUUUC&UGGUGCCAGAGUUUAUACCCUGGGUGCUGGGGUCGCACUGUGU  
.((((((((.....(((((..((.....&.....)))))))).)).....)))). -23.10

>ENSG00000070614 hs-mir-128b 2108 2115  
UCACAGUGAACCGGUCUCUUUC&GUUGGACACUCAGUGGGACCAGCUGCAGGUGGUUUCACUGUGU  
.((((((((((((((((.....&.....)))))))).)).....)))). -26.30

mir-128b ENSMUSG00000024607 2047 nt UTR 3 hits 329 1038 2037  
-----1-----1-----

-----1  
>ENSMUSG00000024607 hs-mir-128b 329 336  
UCACAGUGAACCGGUCUCUUUC&GGUAGGAGGAGUCCUGGAGGCUCUCUCCUGUCCUCACUGUGU  
.((((((((.....(((((..((((((&.....)))))))).)).....)))). -25.17

>ENSMUSG00000024607 hs-mir-128b 1038 1045  
UCACAGUGAACCGGUCUCUUUC&UGGUGCCAGAGUUUAUACCCUGGGUGCUGGGGUCGCACUGUGU  
.((((((((.....(((((..((.....&.....)))))))).)).....)))). -23.10

>ENSMUSG00000024607 hs-mir-128b 2037 2044  
UCACAGUGAACCGGUCUCUUUC&GUCUUCAUUAUGAGCUAUUCCUUCUGGAGUUCUCCACUGUGGU  
((((((((.....((..(((((..((.....&.....)))))))).)).....)))). -18.30

mir-128b ENSRNOG00000019014 2050 nt UTR 4 hits 330 1030 1807 2017  
-----1-----1-----1-----

-----1-  
>ENSRNOG00000019014 hs-mir-128b 330 337  
UCACAGUGAACCGGUCUCUUUC&GGUAGGAGGAGUCCUGGAGACUCUCUCCUGUCCUCACUGUGU  
.((((((((.....(((((..((((((&.....)))))))).)).....)))). -25.17

>ENSRNOG00000019014 hs-mir-128b 1030 1037  
UCACAGUGAACCGGUCUCUUUC&UGGUGCCAGAGUUUAUACCCUGGGUGCUGGGGUCACACUGUGU  
.((((((((.....(((((..((.....&.....)))))))).)).....)))). -22.00

>ENSRNOG00000019014 hs-mir-128b 1807 1814  
UCACAGUGAACCGGUCUCUUUC&GUACCAUACUGCCUCUGAGCCCACCUUGAGGACCCCACUGUGU  
((((((((.....((((((.....&.....)))))))).))))). -20.80  
>ENSRNOG00000019014 hs-mir-128b 2017 2024  
UCACAGUGAACCGGUCUCUUUC&GUCUUCAUUAUGAGCUAUUCUCUUCUGGAGUUCUCCACUGUGGU  
((((((((.....((.....&.....)))))).)).)))). -18.30

miRNA: mir-128b

Human predicted target: ENSG00000070759  
Mouse predicted target: ENSMUSG00000033985  
Rat predicted target: ENSRNOG00000017282  
Hs Gene description: TESTIS-SPECIFIC PROTEIN KINASE 2 (EC 2.7.1.-)  
(TESTICULAR PROTEIN KINASE 2). [Source:SWISSPROT;Acc:Q96S53] NM\_007170  
mir-128b ENSG00000070759 2957 nt UTR 2 hits 1210 1727

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

>ENSG00000070759 hs-mir-128b 1210 1217  
UCACAGUGAACCGGUCUCUUUC&UGGGCUUUGGAGGAACGAGAGAACUGGCUCUUGGCCACUGUGAG  
((((((((.....((((((((.....&.....)))))))).))))). -25.40

>ENSG00000070759 hs-mir-128b 1727 1734  
UCACAGUGAACCGGUCUCUUUC&UGUCAAUUAUAAGGUCAAUAUCGUGAGACUGAGGACACUGUGGU  
((((((((.....((((((((.....&.....)))))))).)).)). -28.20

mir-128b ENSMUSG00000033985 2929 nt UTR 2 hits 1195 1712  
-----1-----1-----  
-----

>ENSMUSG00000033985 hs-mir-128b 1195 1202  
UCACAGUGAACCGGUCUCUUUC&UGGGCUUUGGAUGGACGGGAAAACUGGCUCUUGGUCACUGUGAG  
((((((((.....((((((((.....&.....)))))))).))))). -23.90

>ENSMUSG00000033985 hs-mir-128b 1712 1719  
UCACAGUGAACCGGUCUCUUUC&UGUCAAUUAUAAGGUCAAUAUCGUGAGACUGAGGACACUGUGGU  
((((((((.....((((((((.....&.....)))))))).)).)). -24.00

mir-128b ENSRNOG00000017282 2963 nt UTR 2 hits 1267 1763  
-----1-----1-----  
-----

>ENSRNOG00000017282 hs-mir-128b 1267 1274  
UCACAGUGAACCGGUCUCUUUC&UGGGCUUUGGAAGGACGGGAAAACUGGCUCUUGGCCACUGUGAG  
((((((((.....((((((((.....&.....)))))))).))))). -23.97

>ENSRNOG00000017282 hs-mir-128b 1763 1770  
UCACAGUGAACCGGUCUCUUUC&UGUCAAUUAUAAGGUCAAUAUCGUGAGACUGAGGACACUGUGGU  
((((((((.....((((((((.....&.....)))))))).)).)). -24.00

miRNA: mir-128b

Human predicted target: ENSG00000143333  
Mouse predicted target: ENSMUSG00000026475  
Rat predicted target: ENSRNOG00000002369

Hs Gene description: REGULATOR OF G-PROTEIN SIGNALING 16 (RGS16)  
(RETINALLY ABUNDANT REGULATOR OF G-PROTEIN SIGNALING) (RGS-R) (A28-RGS14P). [Source:SWISSPROT;Acc:O15492] NM\_002928

mir-128b ENSG00000143333 3671 nt UTR 2 hits 2907 3378

-----1-----1-----  
>ENSG00000143333 hs-mir-128b 2907 2914  
UCACAGUGAACCGGUCUCUUUC&GAAAUUAAGGGCCUGGGAAGGAAGACAGGGACCAACACUGUGGC  
((((((((.....(((((((.&.....)))))))).)))))))). -25.80

>ENSG00000143333 hs-mir-128b 3378 3385  
UCACAGUGAACCGGUCUCUUUC&UACCCAGCCUCUCCUGUGCUGGUUCAUUUCCACACUGUGC  
.(((((((((((.&.....)))))))).)))))))). -20.20

mir-128b ENSMUSG00000026475 3530 nt UTR 2 hits 1392 2412

-----1-----1-----  
>ENSMUSG00000026475 hs-mir-128b 1392 1399  
UCACAGUGAACCGGUCUCUUUC&GUGGGGGGGGGGGGAACGGGACACGGGACUCCCCACUGUGU  
.(((((((((.(((((((.&.....)))))))).)))))))). -25.30

>ENSMUSG00000026475 hs-mir-128b 2412 2419  
UCACAGUGAACCGGUCUCUUUC&GGUGCAGCUGGUGCCGGAGGCCAUCUGAGCUGUACACUGUGGG  
(((((((((((.&.....)))))))).)))))))). -24.60

mir-128b ENSRNOG00000002369 2994 nt UTR 2 hits 307 1131

-----1-----1-----  
>ENSRNOG00000002369 hs-mir-128b 307 314  
UCACAGUGAACCGGUCUCUUUC&AAUGCCUUCGUCUACUCUACUGAGAAGGCAGAUUCACUGUGC  
.(((((((((.(((((((.&.....)))))))).)))))))). -23.00

>ENSRNOG00000002369 hs-mir-128b 1131 1138  
UCACAGUGAACCGGUCUCUUUC&UUGGUCUCUAGCCUUGGGACUGACCUUGGAAGAUCACUGUGAA  
(((((((((((.&.....)))))))).)))))))). -24.90

miRNA: mir-128b

Human predicted target: ENSG00000169991

Mouse predicted target: ENSMUSG00000041025

Rat predicted target: ENSRNOG00000018519

mir-128b ENSG00000169991 6280 nt UTR 3 hits 665 689 1313

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

>ENSG00000169991 hs-mir-128b 665 672  
UCACAGUGAACCGGUCUCUUUC&UGGGGGGAUCGAGUGGCAAAGUUGAAGGGACAAGGCACUGUGAG  
((((((((.....(((((((.&.....)))))))).)))))))). -27.10

>ENSG00000169991 hs-mir-128b 689 696  
UCACAGUGAACCGGUCUCUUUC&AAGGGACAAGGCACUGUGAGGGGAAGGCAGAGCCUCACUGUGU  
.(((((((((.(((((((.&.....)))))))).)))))))). -23.00

>ENSG00000169991 hs-mir-128b 1313 1320

UCACAGUGAACCGGUCUCUUUC&GACUUGAAUGGCUUGAGUGGGACUGCGUUGAAGGGCACUGUGU  
.((((((((((((((((((((((&.....)))))))))))).))))). -24.80  
mir-128b ENSMUSG00000041025 2660 nt UTR 3 hits 595 618 2437

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

>ENSMUSG00000041025 hs-mir-128b 595 602  
UCACAGUGAACCGGUCUCUUUC&UCUUUUGGAUCUAGUGGGGAUGUAUCGGGGAAAGGCACUGUGGG  
((((((((((..((..(((...&.....)))))))).))))). -23.30

>ENSMUSG00000041025 hs-mir-128b 618 625  
UCACAGUGAACCGGUCUCUUUC&AUCGGGGAAAGGCACUGUGGGGGGAAGGAAGAACUCACUGUGU  
.((((((((((..((..(((...&.....)))))))).))))). -23.20

>ENSMUSG00000041025 hs-mir-128b 2437 2444  
UCACAGUGAACCGGUCUCUUUC&UUCGUAGUUCGUUGCCAGUGGGUCCUGCUUGUGCUCACUGUGAG  
((((((((((..((..(((...&.....)))))))).))))). -21.10  
mir-128b ENSRNOG00000018519 2000 nt UTR 2 hits 608 631

-----11-----  
-----

>ENSRNOG00000018519 hs-mir-128b 608 615  
UCACAGUGAACCGGUCUCUUUC&UUCUUUUGGAUCUAGUGGGGAUGUGUGGGGAAAGGCACUGUGGG  
((((((((((..((..(((...&.....)))))))).))))). -23.20

>ENSRNOG00000018519 hs-mir-128b 631 638  
UCACAGUGAACCGGUCUCUUUC&UGUGGGGAAAGGCACUGUGGGGGGAAGGAGCCUCACUGUGU  
.((((((((((..((..(((...&.....)))))))).))))). -25.60

miRNA: mir-128b  
Human predicted target: ENSG00000175697  
Mouse predicted target: ENSMUSG00000046961  
Rat predicted target: ENSRNOG00000002797  
Hs Gene description: GABAB-RELATED G-PROTEIN COUPLED RECEPTOR; ZK180.1-  
LIKE. [Source:RefSeq;Acc:NM\_153002] NM\_153002  
mir-128b ENSG00000175697 2000 nt UTR 2 hits 144 1422

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

>ENSG00000175697 hs-mir-128b 144 151  
UCACAGUGAACCGGUCUCUUUC&CAUUUGACCAGCCCAUACCAUGUUUCAGCUAGGCUCACUGUGU  
.((((((((((..((..(((...&.....)))))))).))))). -21.44

>ENSG00000175697 hs-mir-128b 1422 1429  
UCACAGUGAACCGGUCUCUUUC&CACCACCAGAGCCACAGGGAGAGCACACCUGGGUCCACUGUGC  
.((((((((((..((..(((...&.....)))))))).))))). -27.00  
mir-128b ENSMUSG00000046961 2000 nt UTR 3 hits 300 419 1302

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

>ENSMUSG00000046961 hs-mir-128b 300 307  
UCACAGUGAACCGGUCUCUUUC&ACCAAAGAUGGAGAGAGAGAUUUUUUGCAGAACCACUGUGAG  
((((((((((..((..(((...&.....)))))))).))))). -24.19

>ENSMUSG00000046961 hs-mir-128b 419 426  
UCACAGUGAACCGGUCUCUUUC&GGGUGCCUUGCUUUCUGCUGAAGGCUCUAAGCCUUCACUGUGU

.((((((((((..(((..((((&.....)))))).....)))))))). -20.30  
>ENSMUSG00000046961 hs-mir-128b 1302 1309

UCACAGUGAACCGGUCUCUUUC&UUGAGGACAAAACCAAGUUCUUUACCACCACUUCCACUGUGGG  
((((((((((..(((..((((&..)))))).....)))))))). -16.49  
mir-128b ENSRNOG00000002797 2003 nt UTR 3 hits 106 127 1796

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

>ENSRNOG00000002797 hs-mir-128b 106 113  
UCACAGUGAACCGGUCUCUUUC&GGGAGCUAGAGUUUAGUCUUUAGGGACCAGAUCAGCACUGUGC  
.((((((((((..(((..((((&.....)))))).....)))))))). -23.70

>ENSRNOG00000002797 hs-mir-128b 127 134  
UCACAGUGAACCGGUCUCUUUC&AGGGACCAGAUCAGCACUGUGCCUUGACCAGCCUCCACUGUGU  
.((((((((((..(((..((((&..)))))).....)))))))). -19.69

>ENSRNOG00000002797 hs-mir-128b 1796 1803  
UCACAGUGAACCGGUCUCUUUC&GCCUAACUUGUCACCUGCUGCCCACAUCGCAUCUGCACUGUGU  
.((((((((((..(((..((((&.....)))))).....)))))))). -15.90

miRNA: mir-128

Human predicted target: ENSG00000055070  
Mouse predicted target: ENSMUSG00000040842  
Rat predicted target: ENSRNOG00000009183  
Hs Gene description: NM\_015609

mir-128 ENSG00000055070 5002 nt UTR 4 hits 121 145 167 197

-----1111-----  
-----

>ENSG00000055070 hs-mir-128 121 128  
UCACAGUGAACCGGUCUCUUUU&UGGACUUGAGCAGAGGGAACGACCUGACUUAUUGCACUGUGAU  
((((((((((..(((..((((&.....)))))).....)))))))). -21.76

>ENSG00000055070 hs-mir-128 145 152  
UCACAGUGAACCGGUCUCUUUU&UGACUUAUUGCACUGUGAUCCCCUUGCUCGCCCACUGUGAC  
((((((((((..(((..((((&.....)))))).....)))))))). -19.30

>ENSG00000055070 hs-mir-128 167 174  
UCACAGUGAACCGGUCUCUUUU&CCCUUGCUCGCCCACUGUGACCUUGAACCCCAUGCACUGUGAC  
((((((((((..(((..((((&.....)))))).....)))))))). -20.20

>ENSG00000055070 hs-mir-128 197 204  
UCACAGUGAACCGGUCUCUUUU&CCAUGCACUGUGACCUCCCCCUUCCUCCUCCACUGUGAU  
((((((((((..(((..((((&.....)))))).....)))))))). -18.25

mir-128 ENSMUSG00000040842 2000 nt UTR 4 hits 118 142 164 192

-----1111-----  
-----

>ENSMUSG00000040842 hs-mir-128 118 125  
UCACAGUGAACCGGUCUCUUUU&UGGACUUGAGCAGAGGGAUAACCUGACUUAUUGCACUGUGAU  
((((((((((..(((..((((&.....)))))).....)))))))). -20.51

>ENSMUSG00000040842 hs-mir-128 142 149  
UCACAGUGAACCGGUCUCUUUU&UGACUUAUUGCACUGUGAUCCCCUUGCUCGCCCACUGUGAC  
((((((((((..(((..((((&.....)))))).....)))))))). -19.30

```

>ENSMUSG00000040842 hs-mir-128      164      171
UCACAGUGAACCGGUCUCUUUU&CCCUUGCUCGCCCACUGUGACCUUGAACCCCAUGCACUGUGAC
((((((((.....((..((.....&.....)))))))). -20.20
>ENSMUSG00000040842 hs-mir-128      192      199
UCACAGUGAACCGGUCUCUUUU&CCCAUGCACUGUGACCUCUGCCUCCCCCUUCCACUGUGAU
((((((((.....(((..((.....&.....)))))). -18.35
mir-128      ENSRNOG0000009183      2530 nt UTR      8 hits 116 140 162 190 640
664 686 714
-----1111-----1111-----
-----
>ENSRNOG0000009183 hs-mir-128      116      123
UCACAGUGAACCGGUCUCUUUU&UGGACUUGAGCAGAGGGAAUAACCUGACUUAUCUUGCACUGUGAU
((((((((.....(((((((&.....)))))). -20.51
>ENSRNOG0000009183 hs-mir-128      140      147
UCACAGUGAACCGGUCUCUUUU&UGACUUAUCUUGCACUGUGAUCCCUUGCUCGCCCACUGUGAC
((((((((.....((..((.....&.....)))))). -19.30
>ENSRNOG0000009183 hs-mir-128      162      169
UCACAGUGAACCGGUCUCUUUU&CCCUUGCUCGCCCACUGUGACCUUGAACCCCAUGCACUGUGAC
((((((((.....((..((.....&.....)))))). -20.20
>ENSRNOG0000009183 hs-mir-128      190      197
UCACAGUGAACCGGUCUCUUUU&CCCAUGCACUGUGACCUCUGCCUCCCCCUUCCACUGUGAU
((((((((.....(((..((.....&.....)))))). -18.35
>ENSRNOG0000009183 hs-mir-128      640      647
UCACAGUGAACCGGUCUCUUUU&UGGACUUGAGCAGAGGGAAUAACCUGACUUAUCUUGCACUGUGAU
((((((((.....(((((((&.....)))))). -20.51
>ENSRNOG0000009183 hs-mir-128      664      671
UCACAGUGAACCGGUCUCUUUU&UGACUUAUCUUGCACUGUGAUCCCUUGCUCGCCCACUGUGAC
((((((((.....((..((.....&.....)))))). -19.30
>ENSRNOG0000009183 hs-mir-128      686      693
UCACAGUGAACCGGUCUCUUUU&CCCUUGCUCGCCCACUGUGACCUUGAACCCCAUGCACUGUGAC
((((((((.....((..((.....&.....)))))). -20.20
>ENSRNOG0000009183 hs-mir-128      714      721
UCACAGUGAACCGGUCUCUUUU&CCCAUGCACUGUGACCUCUGCCUCCCCCUUCCACUGUGAU
((((((((.....(((..((.....&.....)))))). -18.35

```

miRNA: mir-128

Human predicted target: ENSG00000070614

Mouse predicted target: ENSMUSG00000024607

Rat predicted target: ENSRNOG00000019014

Hs Gene description: HEPARAN SULFATE N-DEACETYLASE/N-SULFOTRANSFERASE (EC 2.8.2.8) (N-HSST) (HSNST) ([HEPARAN SULFATE]-GLUCOSAMINE N-SULFOTRANSFERASE) (N-HEPARAN SULFATE SULFOTRANSFERASE) (GLUCOSAMINYL N-DEACETYLASE/N-SULFOTRANSFERASE). [Source:SWISSPROT;Acc:P52848] NM\_001543

mir-128 ENSG00000070614 2555 nt UTR 3 hits 303 996 2108

```

-----1-----1-----
-----1-----
>ENSG00000070614 hs-mir-128      303      310

```

```

UCACAGUGAACCGGUCUCUUUU&GUAGGAGGGAGUCCACGAGACUCUUUUCUGUCCCUCACUGUGU
.((((((((...((((((&...)))))))).)).....)))))))). -21.70
>ENSG00000070614 hs-mir-128 996 1003
UCACAGUGAACCGGUCUCUUUU&UGGUGCCAGAGUUUAUACCCUGGGUGCUGGGGUCGCACUGUGU
.((((((((...((((((&...)))))))).)).....)))))))). -23.10
>ENSG00000070614 hs-mir-128 2108 2115
UCACAGUGAACCGGUCUCUUUU&GUUGGACACUCAGUGGGACCAGCUGCAGGUGGUUCACUGUGU
.((((((((...((((((&...)))))))).)).....)))))))). -26.30
mir-128 ENSMUSG00000024607 2047 nt UTR 3 hits 329 1038 2037
-----1-----1-----
-----1
>ENSMUSG00000024607 hs-mir-128 329 336
UCACAGUGAACCGGUCUCUUUU&GGUAGGAGGAGUCCUGGAGGCUCUCUCCUGUCCCUCACUGUGU
.((((((((...((((((&...)))))))).)).....)))))))). -23.77
>ENSMUSG00000024607 hs-mir-128 1038 1045
UCACAGUGAACCGGUCUCUUUU&UGGUGCCAGAGUUUAUACCCUGGGUGCUGGGGUCGCACUGUGU
.((((((((...((((((&...)))))))).)).....)))))))). -23.10
>ENSMUSG00000024607 hs-mir-128 2037 2044
UCACAGUGAACCGGUCUCUUUU&GUCUUCAUUAUGAGCUAUUCCUUCUGGAGUUCUCCACUGUGGU
((((((((...((((((&...)))))))).)).....)))))))). -18.30
mir-128 ENSRNOG00000019014 2050 nt UTR 4 hits 330 1030 1807 2017
-----1-----1-----1-----
-----1-
>ENSRNOG00000019014 hs-mir-128 330 337
UCACAGUGAACCGGUCUCUUUU&GGUAGGAGGAGUCCUGGAGACUCUCUCCUGUCCCUCACUGUGU
.((((((((...((((((&...)))))))).)).....)))))))). -23.77
>ENSRNOG00000019014 hs-mir-128 1030 1037
UCACAGUGAACCGGUCUCUUUU&UGGUGCCAGAGUUUAUACCCUGGGUGCUGGGGUCACACUGUGU
.((((((((...((((((&...)))))))).)).....)))))))). -22.00
>ENSRNOG00000019014 hs-mir-128 1807 1814
UCACAGUGAACCGGUCUCUUUU&GUACCAUACUGCCUCUGAGCCCACCUUGAGGACCCACACUGUGU
.((((((((...((((((&...)))))))).)).....)))))))). -20.80
>ENSRNOG00000019014 hs-mir-128 2017 2024
UCACAGUGAACCGGUCUCUUUU&GUCUUCAUUAUGAGCUAUUCUCUUCUGGAGUUCUCCACUGUGGU
((((((((...((((((&...)))))))).)).....)))))))). -18.30

```

miRNA: mir-128

Human predicted target: ENSG00000070759

Mouse predicted target: ENSMUSG00000033985

Rat predicted target: ENSRNOG00000017282

Hs Gene description: TESTIS-SPECIFIC PROTEIN KINASE 2 (EC 2.7.1.-)

(TESTICULAR PROTEIN KINASE 2). [Source:SWISSPROT;Acc:Q96S53] NM\_007170

mir-128 ENSG00000070759 2957 nt UTR 2 hits 1210 1727

```

-----1-----1-----
-----1-----
>ENSG00000070759 hs-mir-128 1210 1217
UCACAGUGAACCGGUCUCUUUU&UGGGCUUUGGAGGAACGAGAGAACUGGCUCUUGGCCACUGUGAG

```



((((((((((..((((((((((..&.....)))))))).))))). -25.40  
>ENSG00000070759 hs-mir-128 1727 1734

UCACAGUGAACCGGUCUCUUUU&UGUCA AUGAU AAGGUCAAUAUCGUGAGACUGAGGACACUGUGGU  
((((((((((..((((((((((..&.....)))))))).))))). -28.20  
mir-128 ENSMUSG00000033985 2929 nt UTR 2 hits 1195 1712

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

>ENSMUSG00000033985 hs-mir-128 1195 1202  
UCACAGUGAACCGGUCUCUUUU&UGGGCUUUGGAUGGACGGGAAAACUGGCUCUUGGUCACUGUGAG  
((((((((((..((((((((((..&.....)))))))).))))). -23.70

>ENSMUSG00000033985 hs-mir-128 1712 1719  
UCACAGUGAACCGGUCUCUUUU&UGUCAAUUAUAAGGUCAAUAUCGUGAGACUGAGGACACUGUGGU  
((((((((((..((((((((((..&.....)))))))).))))). -24.00  
mir-128 ENSRNOG00000017282 2963 nt UTR 2 hits 1267 1763

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

>ENSRNOG00000017282 hs-mir-128 1267 1274  
UCACAGUGAACCGGUCUCUUUU&UGGGCUUUGGAAGGACGGGAAAACUGGCUCUUGGCCACUGUGAG  
((((((((((..((((((((((..&.....)))))))).))))). -22.67

>ENSRNOG00000017282 hs-mir-128 1763 1770  
UCACAGUGAACCGGUCUCUUUU&UGUCAAUUAUAAGGUCAAUAUCGUGAGACUGAGGACACUGUGGU  
((((((((((..((((((((((..&.....)))))))).))))). -24.00

miRNA: mir-128  
Human predicted target: ENSG00000143333  
Mouse predicted target: ENSMUSG00000026475  
Rat predicted target: ENSRNOG00000002369  
Hs Gene description: REGULATOR OF G-PROTEIN SIGNALING 16 (RGS16)  
(RETINALLY ABUNDANT REGULATOR OF G-PROTEIN SIGNALING) (RGS-R) (A28-RGS14P). [Source:SWISSPROT;Acc:015492] NM\_002928  
mir-128 ENSG00000143333 3671 nt UTR 2 hits 2907 3378

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

>ENSG00000143333 hs-mir-128 2907 2914  
UCACAGUGAACCGGUCUCUUUU&GAAAUUAAGGGCCUGGGAAGGAAGACAGGGACCAACACUGUGGC  
((((((((((..((((((((((..&.....)))))))).))))). -24.80

>ENSG00000143333 hs-mir-128 3378 3385  
UCACAGUGAACCGGUCUCUUUU&UACCCAGCCUCUCCUGUGCUGGUUCAUUUCCACACUGUGC  
((((((((((..((((((((((..&.....)))))))).))))). -20.20  
mir-128 ENSMUSG00000026475 3530 nt UTR 2 hits 1392 2412

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

>ENSMUSG00000026475 hs-mir-128 1392 1399  
UCACAGUGAACCGGUCUCUUUU&GCUGGGGGGGGGGGGAACGGGACACGGGACUCCCCACUGUGU  
((((((((((..((((((((((..&.....)))))))).))))). -24.10

>ENSMUSG00000026475 hs-mir-128 2412 2419  
UCACAGUGAACCGGUCUCUUUU&GGUGCAGCUGGUGCCGGAGGCCAUCUGAGCUGUACACUGUGGG

(((((((((((((.....&.....)))))))).)))). -24.60  
mir-128 ENSRNOG0000002369 2994 nt UTR 2 hits 307 1131

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

>ENSRNOG0000002369 hs-mir-128 307 314  
UCACAGUGAACCGGUCUCUUUU&AAUGCCUUCGUCUACUCUACUGAGAAGGCAGAUUCACUGUGC  
.(((((((((((((.....&.....)))))))).)))). -23.00

>ENSRNOG0000002369 hs-mir-128 1131 1138  
UCACAGUGAACCGGUCUCUUUU&UUGGUCUCUAGCCUUGGGACUGACCUUGGAAGAUCACUGUGAA  
(((((((((((((.....&.....)))))))).)))). -24.90

miRNA: mir-128

Human predicted target: ENSG00000169991  
Mouse predicted target: ENSMUSG00000041025  
Rat predicted target: ENSRNOG00000018519

mir-128 ENSG00000169991 6280 nt UTR 3 hits 665 689 1313  
-----1-----1-----  
-----

>ENSG00000169991 hs-mir-128 665 672  
UCACAGUGAACCGGUCUCUUUU&UGGGGGGAUCGAGUGGCAAAGUUGAAGGGACAAGGCACUGUGAG  
(((((((((((((.....&.....)))))))).)))). -27.10

>ENSG00000169991 hs-mir-128 689 696  
UCACAGUGAACCGGUCUCUUUU&AAGGGACAAGGCACUGUGAGGGGAAGGCAGAGCCUCACUGUGU  
.(((((((((((((.....&.....)))))))).)))). -22.00

>ENSG00000169991 hs-mir-128 1313 1320  
UCACAGUGAACCGGUCUCUUUU&GACUUGAAUGGCUUGAGUGGGACUGCGUUGAAGGGCACUGUGU  
.(((((((((((((.....&.....)))))))).)))). -23.40

mir-128 ENSMUSG00000041025 2660 nt UTR 3 hits 595 618 2437  
-----1-----1-----  
-----

>ENSMUSG00000041025 hs-mir-128 595 602  
UCACAGUGAACCGGUCUCUUUU&UCUUUUGGAUCUAGUGGCGAUGUAUCGGGGAAAGGCACUGUGGG  
(((((((((((((.....&.....)))))))).)))). -23.30

>ENSMUSG00000041025 hs-mir-128 618 625  
UCACAGUGAACCGGUCUCUUUU&AUCGGGGAAAGGCACUGUGGGGAAGGAAGAACCUCACUGUGU  
.(((((((((((((.....&.....)))))))).)))). -21.80

>ENSMUSG00000041025 hs-mir-128 2437 2444  
UCACAGUGAACCGGUCUCUUUU&UUCGUAGUUCGUUGCCAGUGGGUCCUGCUUGUGCUCACUGUGAG  
(((((((((((((.....&.....)))))))).)))). -21.10

mir-128 ENSRNOG00000018519 2000 nt UTR 2 hits 608 631  
-----1-----  
-----

>ENSRNOG00000018519 hs-mir-128 608 615  
UCACAGUGAACCGGUCUCUUUU&UUCUUUUGGAUCUAGUGGCGAUGUGUGGGGAAGGCACUGUGGG  
(((((((((((((.....&.....)))))))).)))). -23.20

>ENSRNOG00000018519 hs-mir-128 631 638  
UCACAGUGAACCGGUCUCUUUU&UGUGGGGAAAGGCACUGUGGGGGAAGGAAGAGCCUCACUGUGU  
.((((((((...((((((&.....)))))))))))). -24.20

miRNA: mir-128

Human predicted target: ENSG00000175697

Mouse predicted target: ENSMUSG00000046961

Rat predicted target: ENSRNOG00000002797

Hs Gene description: GABAB-RELATED G-PROTEIN COUPLED RECEPTOR; ZK180.1-LIKE. [Source:RefSeq;Acc:NM\_153002] NM\_153002

mir-128 ENSG00000175697 2000 nt UTR 2 hits 144 1422

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

>ENSG00000175697 hs-mir-128 144 151  
UCACAGUGAACCGGUCUCUUUU&CAUUUGACCAGCCCAUACCAUGUUUCAGCUAGGCUCACUGUGU  
.((((((((...(((((&.....)))))))))))). -21.44

>ENSG00000175697 hs-mir-128 1422 1429  
UCACAGUGAACCGGUCUCUUUU&CACCACCAGAGCCACAGGGAGAGCACACCUGGGUCCACUGUGC  
.((((((((...(((((&.....)))))))))))). -25.40

mir-128 ENSMUSG00000046961 2000 nt UTR 3 hits 300 419 1302

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

>ENSMUSG00000046961 hs-mir-128 300 307  
UCACAGUGAACCGGUCUCUUUU&ACCAAAGAUGGAGAGAGAGAUUUUUUUGCAGAACCACUGUGAG  
((((((((...(((((&.....)))))))))))). -22.69

>ENSMUSG00000046961 hs-mir-128 419 426  
UCACAGUGAACCGGUCUCUUUU&GGGUGCCUUGCUUUCUGCUGAAGGCUCUAAGCCUUCACUGUGU  
.((((((((...(((((&.....)))))))))))). -19.20

>ENSMUSG00000046961 hs-mir-128 1302 1309  
UCACAGUGAACCGGUCUCUUUU&UUGAGGACAAAACCAAGUUCUUUACCACCACUUCCACUGUGGG  
((((((((...(((((&..)))))))))))). -16.49

mir-128 ENSRNOG00000002797 2003 nt UTR 3 hits 106 127 1796

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

>ENSRNOG00000002797 hs-mir-128 106 113  
UCACAGUGAACCGGUCUCUUUU&GGGAGCUAGAGUUUAGUCUUUAGGGACCAGAUACAGCACUGUGC  
.((((((((...(((((&.....)))))))))))). -23.70

>ENSRNOG00000002797 hs-mir-128 127 134  
UCACAGUGAACCGGUCUCUUUU&AGGGACCAGAUACAGCACUGUGCCUUGACCAGCCUCCACUGUGU  
.((((((((...(((((&)))))))))))). -19.69

>ENSRNOG00000002797 hs-mir-128 1796 1803  
UCACAGUGAACCGGUCUCUUUU&GCCUAACUUGUCACCUGCUGCCCACAUCGCAUCUGCACUGUGU  
.((((((((...(((((&.....)))))))))))). -15.90

miRNA: mir-129b

Human predicted target: ENSG00000181200

Mouse predicted target: ENSMUSG00000045383

Rat predicted target: ENSRNOG00000006531

mir-129b ENSG00000181200 2002 nt UTR 3 hits 124 155 1682

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

>ENSG00000181200 hs-mir-129b 124 131  
CUUUUUGCGGUCUGGGCUUGC&CCCCUAAGAUUCCCAAAGAGCCAAAGGAAAAGAAAAGCAAAAAC  
.((((((((((..(((..(((..&.....)))))).....)))))))). -20.60

>ENSG00000181200 hs-mir-129b 155 162  
CUUUUUGCGGUCUGGGCUUGC&GAAAGCAAAAACUGCCACGCCAAAACCCAAAUCCAGCAAAAAGU  
((((((((((..(((..(((..&.....)))))).....)))))))). -20.50

>ENSG00000181200 hs-mir-129b 1682 1689  
CUUUUUGCGGUCUGGGCUUGC&AUAAGCUUAUUUCUCCCAAGGAGAAAAGAAAUCAAAAGCAAAAUAU  
.((((((((((..(((..(((..&.....)))))).....)))))))). -14.94

mir-129b ENSMUSG00000045383 2000 nt UTR 2 hits 130 161

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

>ENSMUSG00000045383 hs-mir-129b 130 137  
CUUUUUGCGGUCUGGGCUUGC&CCCCGAAGAUUCCCAAAGAGCCAAAGGAAAAGAAAAGCAAAAAC  
.((((((((((..(((..(((..&.....)))))).....)))))))). -20.60

>ENSMUSG00000045383 hs-mir-129b 161 168  
CUUUUUGCGGUCUGGGCUUGC&GAAAGCAAAAACUGUCACGCCAAAACCCAAAUCCAGCAAAAAGU  
((((((((((..(((..(((..&.....)))))).....)))))))). -20.50

mir-129b ENSRNOG00000006531 2001 nt UTR 2 hits 130 161

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

>ENSRNOG00000006531 hs-mir-129b 130 137  
CUUUUUGCGGUCUGGGCUUGC&CCCCGAAGACCCCAAAGAGCCAAAGGAAAAGAAAAGCAAAAAC  
.((((((((((..(((..(((..&.....)))))).....)))))))). -20.60

>ENSRNOG00000006531 hs-mir-129b 161 168  
CUUUUUGCGGUCUGGGCUUGC&GAAAGCAAAAACUGUCACGCCAAAACCCAAAUCCAGCAAAAAA  
.((((((((((..(((..(((..&.....)))))).....)))))))). -18.20

miRNA: mir-129b

Human predicted target: ENSG00000181449

Mouse predicted target: ENSMUSG00000047245

Rat predicted target: ENSRNOG00000012199

Hs Gene description: TRANSCRIPTION FACTOR SOX-2.

[Source:SWISSPROT;Acc:P48431] NM\_003106

mir-129b ENSG00000181449 2135 nt UTR 3 hits 196 768 1266

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

>ENSG00000181449 hs-mir-129b 196 203  
CUUUUUGCGGUCUGGGCUUGC&CUGCAAAAGAGAACACCAAUCCCAUCCACACUCACGCAAAAAC  
.((((((((((..(((..(((..&.....)))))).....)))))))). -17.71

>ENSG00000181449 hs-mir-129b 768 775  
CUUUUUGCGGUCUGGGCUUGC&UAGACUGUACUAAAUUUUUAUACUACUGUUAAAAGCAAAAUAU



mir-129b ENSMUSG00000043398 2000 nt UTR 2 hits 485 1599  
-----1-----1-----  
-----

>ENSMUSG00000043398 hs-mir-129b 485 492  
CUUUUUGCGGUCUGGGCUUGC&CCCUUUCUCAAUGCGGCCAAGGGAAUGUGAAAUGCAAAAAA  
.(((((((((.(((.((((.&.....))))))..))).....))))). -18.30

>ENSMUSG00000043398 hs-mir-129b 1599 1606  
CUUUUUGCGGUCUGGGCUUGC&UACCUCAAGCCAACUGAAAAUAUUUUCAGAAAUUUGCAAAAAA  
.(((((((((.(((.((((.&.....))))))..))).....))))). -20.86

mir-129b ENSRNOG00000004499 2000 nt UTR 2 hits 210 1328  
-----1-----1-----  
-----

>ENSRNOG00000004499 hs-mir-129b 210 217  
CUUUUUGCGGUCUGGGCUUGC&CCCUUUUUUCAAAAGUGGCCAAAGGAAUGUGAAAUGCAAAAAU  
.(((((((((.(((.((((...&.....))))))..))).....))))). -18.00

>ENSRNOG00000004499 hs-mir-129b 1328 1335  
CUUUUUGCGGUCUGGGCUUGC&UACCUCAAGCCAACUGAAAAUAUUUUCAGAAACUUGCAAAAAA  
.(((((((((.(((.((((.&.....))))))..))).....))))). -20.86

miRNA: mir-130b

Human predicted target: ENSG00000077684

Mouse predicted target: ENSMUSG00000025764

Rat predicted target: ENSRNOG00000014115

Hs Gene description: PHD PROTEIN JADE-1. [Source:RefSeq;Acc:NM\_024900]  
NM\_024900

mir-130b ENSG00000077684 3030 nt UTR 2 hits 1287 2108  
-----1-----1-----  
-----1-----

>ENSG00000077684 hs-mir-130b 1287 1294  
CAGUGCAAUGAUGAAAGGGC&AAUUUAGCAUUAAAUUUGAGUACAAUGUUUUUGUUUUUGCACUC  
.(((((((((.(((.((((.&.....))))))..))).....))))). -17.60

>ENSG00000077684 hs-mir-130b 2108 2115  
CAGUGCAAUGAUGAAAGGGC&UGACCUCUCACCAUUUUUAGAGGUAUCAGAUUCAUUUGCACUA  
.(((((((((.(((.((((.&.....))))))..))).....))))). -18.39

mir-130b ENSMUSG00000025764 4109 nt UTR 2 hits 1177 1985  
-----1-----1-----  
-----1-----

>ENSMUSG00000025764 hs-mir-130b 1177 1184  
CAGUGCAAUGAUGAAAGGGC&AAUUUAGCAUUAAAUUUGAGUAUAUGUUCUGUUUUUGCACUC  
.(((((((((.(((.((((.&.....))))))..))).....))))). -16.10

>ENSMUSG00000025764 hs-mir-130b 1985 1992  
CAGUGCAAUGAUGAAAGGGC&UGGCCUCUCACCAUUUUAGGAGGCACCAGAUUCAUUUGCACUA  
.(((((((((.(((.((((.&.....))))))..))).....))))). -18.80

mir-130b ENSRNOG00000014115 2000 nt UTR 2 hits 1165 1971  
-----1-----1-----  
-----1-----

>ENSRNOG00000014115 hs-mir-130b 1165 1172  
CAGUGCAAUGAUGAAAGGGC&AAUUUAGCAUUAAAUUUGAGUAUAAUGUUCUGUUUUUGCACUC  
.(((((((...((((&.....)))))))).))))). -16.10  
>ENSRNOG00000014115 hs-mir-130b 1971 1978  
CAGUGCAAUGAUGAAAGGGC&CGGCCUCUCACCAUUUUAGGAGGCACCAGAUUCAUUUGCACUA  
.(((((((...((((&.....)))))))).))))). -18.80

miRNA: mir-130b

Human predicted target: ENSG00000085832

Mouse predicted target: ENSMUSG00000028552

Rat predicted target: ENSRNOG00000010299

Hs Gene description: EPIDERMAL GROWTH FACTOR RECEPTOR SUBSTRATE 15  
(PROTEIN EPS15) (AF-1P PROTEIN). [Source:SWISSPROT;Acc:P42566] NM\_001981  
mir-130b ENSG00000085832 3473 nt UTR 2 hits 1550 1781

-----1-----1-----  
-----

>ENSG00000085832 hs-mir-130b 1550 1557  
CAGUGCAAUGAUGAAAGGGC&CUCCUACAGUUUAAAACAAACUUUAAACCACUAUCUUGCACUGC  
(((((((...((((&.....)))))))).))))). -19.70

>ENSG00000085832 hs-mir-130b 1781 1788  
CAGUGCAAUGAUGAAAGGGC&UAGGAUAAAGGUAAGUUGACUUGAACAACUUUCUUUUGCACUGG  
(((((((...((((&.....)))))))).))))). -22.00

mir-130b ENSMUSG00000028552 2229 nt UTR 3 hits 271 1497 1725  
-----1-----1-----1-----  
-----

>ENSMUSG00000028552 hs-mir-130b 271 278  
CAGUGCAAUGAUGAAAGGGC&GUUCUGGUGUGCAUUUUAUGAGAGCUCUUGCCUGCUUGCACUA  
.(((((((...((((&.....)))))))).))))). -20.50

>ENSMUSG00000028552 hs-mir-130b 1497 1504  
CAGUGCAAUGAUGAAAGGGC&AUAGCUGGGAUUUAAAACAAACUUCAACCACUUUCUUGCACUGC  
(((((((...((((&.....)))))))).))))). -21.20

>ENSMUSG00000028552 hs-mir-130b 1725 1732  
CAGUGCAAUGAUGAAAGGGC&CAGGAGAAAGGUAAGUUGACUUGAAUAACCUUCGUUUGCACUGA  
(((((((...((((&.....)))))))).))))). -21.70  
mir-130b ENSRNOG00000010299 2998 nt UTR 3 hits 1953 2193 2673

-----1-----1-----1-----  
-----

>ENSRNOG00000010299 hs-mir-130b 1953 1960  
CAGUGCAAUGAUGAAAGGGC&CUAGGAUUUAAAGCAAACUUAUUAAACCACUUCUUGCACUGU  
(((((((...((((&.....)))))))).))))). -18.20

>ENSRNOG00000010299 hs-mir-130b 2193 2200  
CAGUGCAAUGAUGAAAGGGC&CAGGAGAAAGGUAAGUUGACUUGAAUAACUUGUUGCACUGA  
(((((((...((((&.....)))))))).))))). -17.50

>ENSRNOG00000010299 hs-mir-130b 2673 2680  
CAGUGCAAUGAUGAAAGGGC&UAGAAGUGUGUACUAUCUCAUUUUGCAUCGGAGCUUUGCACUGU  
(((((((...((((&.....)))))))).))))). -18.80

miRNA: mir-130b  
Human predicted target: ENSG00000106511  
Mouse predicted target: ENSMUSG00000036144  
Rat predicted target: ENSRNOG00000006588  
Hs Gene description: HOMEBOX PROTEIN MOX-2 (MESENCHYME HOMEBOX 2)  
(GROWTH ARREST-SPECIFIC HOMEBOX). [Source:SWISSPROT;Acc:P50222] NM\_005924  
mir-130b ENSG00000106511 3175 nt UTR 2 hits 280 433

-----1-----1-----  
-----  
>ENSG00000106511 hs-mir-130b 280 287  
CAGUGCAAUGAUGAAAGGGC&CGUAUGGCAGUGAGCAGGUAUGUGUUUGCUUUUGCUUGCACUGA  
(((((((((. . . . (((((& . . . . .)))))))).)))))))). -20.00  
>ENSMUSG00000036144 hs-mir-130b 433 440  
CAGUGCAAUGAUGAAAGGGC&CAUGUGUAUUACAGUGGGCAGGUAUUUGCUUUUGCUUGCACUGA  
(((((((((. . . . (((((& . . . . .)))))))).)))))))). -20.00  
mir-130b ENSMUSG00000036144 3121 nt UTR 2 hits 270 426

-----1-----1-----  
-----  
>ENSMUSG00000036144 hs-mir-130b 270 277  
CAGUGCAAUGAUGAAAGGGC&AUAUGACAGAGAGGGAGAUGGAUGUUUGCUUUGGCUUGCACUGA  
(((((((((. . . . ((((((& . . . . .)))))).)))))))). -18.80  
>ENSMUSG00000036144 hs-mir-130b 426 433  
CAGUGCAAUGAUGAAAGGGC&CAUGUGUGUGACACUAGGCAGGUAUUUGCUUUUGCUUGCACUGA  
(((((((((. . . . (((((& . . . . .)))))))).)))))))). -20.00  
mir-130b ENSRNOG00000006588 3146 nt UTR 2 hits 274 424

-----1-----1-----  
-----  
>ENSRNOG00000006588 hs-mir-130b 274 281  
CAGUGCAAUGAUGAAAGGGC&AUAUGACAGAGAGGGAGAUGAAUGUUUGCUUUGGCUUGCACUGA  
(((((((((. . . . ((((((& . . . . .)))))).)))))))). -18.80  
>ENSRNOG00000006588 hs-mir-130b 424 431  
CAGUGCAAUGAUGAAAGGGC&CAUGUGUGUGACACUGGGCAGGUAUUUGCUUUUGCUUGCACUGA  
(((((((((. . . . (((((& . . . . .)))))))).)))))))). -20.00

miRNA: mir-130b  
Human predicted target: ENSG00000108292  
Mouse predicted target: ENSMUSG00000038437  
Rat predicted target: ENSRNOG00000012135  
Hs Gene description: AF-17 PROTEIN. [Source:SWISSPROT;Acc:P55198]  
NM\_005937  
mir-130b ENSG00000108292 2000 nt UTR 2 hits 694 1416

-----1-----1-----  
-----  
>ENSG00000108292 hs-mir-130b 694 701  
CAGUGCAAUGAUGAAAGGGC&GAGGCUCUGGCCUUCUUGGUGCCCCGCCCUUGUUUGCACUA  
.(((((((((. . . . (((((& . . . . .)))))))).)))))))). -23.10



>ENSG00000108292 hs-mir-130b 1416 1423  
CAGUGCAAUGAUGAAAGGGC&CGAGAGGCAAGGCCUGUGUCCUGUUUCAGUUGCACUGG  
((((((((.....((((&.....)))))).....)))))))). -24.90  
mir-130b ENSMUSG00000038437 2941 nt UTR 2 hits 625 1350

-----1-----1-----  
>ENSMUSG00000038437 hs-mir-130b 625 632  
CAGUGCAAUGAUGAAAGGGC&GACGUCCCGUGCUGACCUGGGUGCCCUGCCCCUUUUUGCACUA  
.((((((((.....((((&.....)))))).....)))))))). -22.36  
>ENSMUSG00000038437 hs-mir-130b 1350 1357  
CAGUGCAAUGAUGAAAGGGC&GGAGCACCGCCAAGGAGGCCUUGUGUCCCUUUUGGUUGCACUGG  
((((((((.....((((&.....)))))).....)))))))). -25.80  
mir-130b ENSRNOG00000012135 2879 nt UTR 2 hits 624 1337

-----1-----1-----  
>ENSRNOG00000012135 hs-mir-130b 624 631  
CAGUGCAAUGAUGAAAGGGC&CUCUUGGGGCCCAUGAUGGGGCUCCUGCCCCUUUUUGCACUA  
.((((((((.....((((&.....)))))).....)))))))). -19.80  
>ENSRNOG00000012135 hs-mir-130b 1337 1344  
CAGUGCAAUGAUGAAAGGGC&CGGAGCACUGCUACGGAAGCCUGUGUCCCUUUUGGUUGCACUGG  
((((((((.....((((&.....)))))).....)))))))). -25.80

miRNA: mir-130b  
Human predicted target: ENSG00000115170  
Mouse predicted target: ENSMUSG00000026836  
Rat predicted target: ENSRNOG00000005033  
Hs Gene description: ACTIVIN RECEPTOR TYPE I PRECURSOR (EC 2.7.1.37)  
(ACTR-I) (SERINE/THREONINE-PROTEIN KINASE RECEPTOR R1) (SKR1) (ACTIVIN  
RECEPTOR-LIKE KINASE 2) (ALK-2) (TGF-B SUPERFAMILY RECEPTOR TYPE I) (TSR-  
I). [Source:SWISSPROT;Acc:Q04771] NM\_001105  
mir-130b ENSG00000115170 3093 nt UTR 2 hits 419 448

-----11-----  
>ENSG00000115170 hs-mir-130b 419 426  
CAGUGCAAUGAUGAAAGGGC&UUAUUCAGCAAUAUUGCCUGUGCUUCUCUUCUUUAUUGCACUA  
.((((((((.....((((&.....)))))).....)))))))). -21.90  
>ENSG00000115170 hs-mir-130b 448 455  
CAGUGCAAUGAUGAAAGGGC&UCUUUAUUGCACUAGGAAUUCUUUGCAUUCUUACUUGCACUGU  
((((((((.....((((&.....)))))).....)))))))). -18.40  
mir-130b ENSMUSG00000026836 2105 nt UTR 2 hits 427 456

-----11-----  
>ENSMUSG00000026836 hs-mir-130b 427 434  
CAGUGCAAUGAUGAAAGGGC&UCGUAUUCAGCAAUAUCGGCUGCAUCUACUCUUCGUUGCACUA  
.((((((((.....((((&.....)))))).....)))))))). -21.40  
>ENSMUSG00000026836 hs-mir-130b 456 463  
CAGUGCAAUGAUGAAAGGGC&UCUUCGUUGCACUAGGAAUUCUGUGCAUUCUUACUUGCACUGU

(((((((((((((((((.(.(((&.....))))).)))).)))))). -19.70  
mir-130b ENSRNOG00000005033 2106 nt UTR 2 hits 439 468

-----1-----  
-----

>ENSRNOG00000005033 hs-mir-130b 439 446  
CAGUGCAAUGAUGAAAGGGC&UAAUCAGCAAUAUUGGCUGCGCCUACUCUUCUCUGUUGCACUA  
.(((((((((((((((.(.(((&.....))))).)))).)))))). -21.10  
>ENSRNOG00000005033 hs-mir-130b 468 475  
CAGUGCAAUGAUGAAAGGGC&UCUCUGUUGCACUAGGAAUUCUCUGCAUUCUUCUUGCACUGU  
(((((((((((((((.(.(((&.....))))).)))).)))))). -19.30

miRNA: mir-130b  
Human predicted target: ENSG00000130164  
Mouse predicted target: ENSMUSG00000032193  
Rat predicted target: ENSRNOG00000009946  
Hs Gene description: LOW-DENSITY LIPOPROTEIN RECEPTOR PRECURSOR (LDL RECEPTOR). [Source:SWISSPROT;Acc:P01130] NM\_000527  
mir-130b ENSG00000130164 2207 nt UTR 4 hits 813 871 1970 2161

-----1-----  
-----1-----

>ENSG00000130164 hs-mir-130b 813 820  
CAGUGCAAUGAUGAAAGGGC&CCCGACCCCUACCCACUCCAUCUCCGUGGUCUCCUUGCACUU  
.(((((((((((((((.(.(((&.....))))).)))).)))))). -20.30  
>ENSG00000130164 hs-mir-130b 871 878  
CAGUGCAAUGAUGAAAGGGC&GUACACUGUGUACAUAUUGGCAUUUGUGUUAUUUUUGCACUGU  
(((((((((((((((.(.(((&.....))))).)))).)))))). -18.80  
>ENSG00000130164 hs-mir-130b 1970 1977  
CAGUGCAAUGAUGAAAGGGC&GACUUCAGGUUCUUCUGAAAUCGCCGUGUACUGUUGCACUGA  
(((((((((((((((.(.(((&.....))))).)))).)))))). -25.00  
>ENSG00000130164 hs-mir-130b 2161 2168  
CAGUGCAAUGAUGAAAGGGC&GUCCCUGUACAGAUAGUGGGGAUUUUUGUUAUGUUUGCACUU  
.(((((((((((((((.(.(((&.....))))).)))).)))))). -17.65  
mir-130b ENSMUSG00000032193 3530 nt UTR 2 hits 571 642

-----1-----  
-----

>ENSMUSG00000032193 hs-mir-130b 571 578  
CAGUGCAAUGAUGAAAGGGC&GUCCUGUGCCCAGCCCCGAGUCUCCGAGUGAGGCUUGCACUU  
.(((((((((((((((.(.(((&.....))))).)))).)))))). -19.02  
>ENSMUSG00000032193 hs-mir-130b 642 649  
CAGUGCAAUGAUGAAAGGGC&UGGGCACCCACGUGGUCCACAUAUUGUACUCCUAGGUUGCACUGA  
(((((((((((((((.(.(((&.....))))).)))).)))))). -20.50  
mir-130b ENSRNOG00000009946 2000 nt UTR 2 hits 1479 1548

-----1-----  
-----

>ENSRNOG00000009946 hs-mir-130b 1479 1486  
CAGUGCAAUGAUGAAAGGGC&CGUCUCAUGCCAGCCCCUACUGUCCAUGGGAGAUUUGCACUU  
.(((((((((((((((.(.(((&.....))))).)))).)))))). -17.50

>ENSRNOG00000009946 hs-mir-130b 1548 1555  
CAGUGCAAUGAUGAAAGGGC&UGGGCACCCACGUGGCCCGCUCUGUACUCCUAGGUUGCACUGU  
((((((((((((((...((((&.....)))))).))))).))))). -26.10

miRNA: mir-130b

Human predicted target: ENSG00000147642  
Mouse predicted target: ENSMUSG00000022340  
Rat predicted target: ENSRNOG00000004200  
Hs Gene description: NM\_017786  
mir-130b ENSG00000147642 2720 nt UTR 2 hits 120 299

-----1-----1-----  
-----

>ENSG00000147642 hs-mir-130b 120 127  
CAGUGCAAUGAUGAAAGGGC&UCUCUAUUCUGUCGUUUUGCUCUCCUUGGUAUUUGAUUUGCACUA  
((((((((((((((...((((&.....)))))).))))).))))). -20.70

>ENSG00000147642 hs-mir-130b 299 306  
CAGUGCAAUGAUGAAAGGGC&UCUUAUCCUAGUGGUUCAGGAAGAGAAAACGCAGUUUGCACUU  
((((((((((((((...((((&.....))))).))))).))))). -14.45  
mir-130b ENSMUSG00000022340 2000 nt UTR 3 hits 111 289 1172

-----1-----1-----1-----  
-----

>ENSMUSG00000022340 hs-mir-130b 111 118  
CAGUGCAAUGAUGAAAGGGC&CUCUAUUCUGUCAGUUUUGCUUCUCGCUAUUUGAUUUGCACUA  
((((((((((((((...((((&.....)))))).))))).))))). -16.90

>ENSMUSG00000022340 hs-mir-130b 289 296  
CAGUGCAAUGAUGAAAGGGC&UCUUAUACUAAUGGUUCAGGAAGAGAAAUGCCGUUUGCACUU  
((((((((((((((...((((&.....)))))).))))).))))). -14.81

>ENSMUSG00000022340 hs-mir-130b 1172 1179  
CAGUGCAAUGAUGAAAGGGC&AGGCAUGCAGCUGCUUGCACACACAAUCAGCACGUUUGCACUC  
((((((((((((((...((((&.....))))).))))).))))). -14.80  
mir-130b ENSRNOG00000004200 2000 nt UTR 2 hits 113 291

-----1-----1-----  
-----

>ENSRNOG00000004200 hs-mir-130b 113 120  
CAGUGCAAUGAUGAAAGGGC&GUCUCUAUUGUCAUUUUUGCUCUCCUUGCUAUUUGAUUUGCACUA  
((((((((((((((...((((&.....)))))).))))).))))). -20.50

>ENSRNOG00000004200 hs-mir-130b 291 298  
CAGUGCAAUGAUGAAAGGGC&UCUUAUACUAAUGGUUCAGAAAGAGAAAUGCAGUUUGCACUU  
((((((((((((((...((((&.....)))))).))))).))))). -14.20

miRNA: mir-130b

Human predicted target: ENSG00000155111  
Mouse predicted target: ENSMUSG00000038481  
Rat predicted target: ENSRNOG00000000583  
mir-130b ENSG00000155111 6557 nt UTR 2 hits 1219 1645

-----1-----1-----  
-----  
-----

>ENSG00000155111 hs-mir-130b 1219 1226  
CAGUGCAAUGAUGAAAGGGC&UUACUGAAACUAAUUCUAUCAAGAAUCUUUUUCAUUGCACUGA  
(((((((((((..&.....)))))))))))). -25.70  
>ENSG00000155111 hs-mir-130b 1645 1652  
CAGUGCAAUGAUGAAAGGGC&AGUAAAAUAAGAUUAGACAGAAGCCAGUAUACAUUUUGCACUA  
(((((((((((..&.....)))))))))))). -19.10  
mir-130b ENSMUSG00000038481 4297 nt UTR 3 hits 1163 1575 3108

-----1-----1-----  
-----1-----

>ENSMUSG00000038481 hs-mir-130b 1163 1170  
CAGUGCAAUGAUGAAAGGGC&UUACUGAGACUUAACGCUGUCAAGAAUCUUUUGUAUUGCACUGA  
(((((((((((..&.....)))))))))))). -21.40  
>ENSMUSG00000038481 hs-mir-130b 1575 1582  
CAGUGCAAUGAUGAAAGGGC&AAGUAAAAUAAGAUUUUAGAAGCCAGUAUACAUUUUGCACUA  
(((((((((((..&.....)))))))))))). -19.10  
>ENSMUSG00000038481 hs-mir-130b 3108 3115  
CAGUGCAAUGAUGAAAGGGC&GCUUUUGAAACCUUAGGACUUGGAGCUCUGACAUUUUGCACUC  
(((((((((((..&.....)))))))))))). -22.20  
mir-130b ENSRNOG00000000583 4096 nt UTR 4 hits 1147 1520 3249 3664

-----1-----1-----  
-----1-----1-----1-----

>ENSRNOG00000000583 hs-mir-130b 1147 1154  
CAGUGCAAUGAUGAAAGGGC&UUACUGAGACUUAACGCUGUCAAGAACCUUUUUUAUUGCACUGA  
(((((((((((..&.....)))))))))))). -26.50  
>ENSRNOG00000000583 hs-mir-130b 1520 1527  
CAGUGCAAUGAUGAAAGGGC&AGUAAACUAGGAUUUUUAGAAGCCAGUAUACAUUUUGCACUA  
(((((((((((..&.....)))))))))))). -19.10  
>ENSRNOG00000000583 hs-mir-130b 3249 3256  
CAGUGCAAUGAUGAAAGGGC&UUACUGAGACUUAACGCUGUCAAGAACCUUUUUUAUUGCACUGA  
(((((((((((..&.....)))))))))))). -26.50  
>ENSRNOG00000000583 hs-mir-130b 3664 3671  
CAGUGCAAUGAUGAAAGGGC&AGUAAACUAGGAUUUUUAGAAGCCAGUAUACAUUUUGCACUA  
(((((((((((..&.....)))))))))))). -19.10

miRNA: mir-130b  
Human predicted target: ENSG00000163624  
Mouse predicted target: ENSMUSG00000029330  
Rat predicted target: ENSRNOG00000002142  
Hs Gene description: PHOSPHATIDATE CYTIDYLYLTRANSFERASE 1 (EC 2.7.7.41)  
(CDP-DIGLYCERIDE SYNTHETASE 1) (CDP-DIGLYCERIDE PYROPHOSPHORYLASE 1) (CDP-DIACYLGLYCEROL SYNTHASE 1) (CDS 1) (CTP:PHOSPHATIDATE CYTIDYLYLTRANSFERASE

1) (CDP-DAG SYNTHASE 1) (CDP-DG SYNTHETASE 1).

[Source:SWISSPROT;Acc:Q92903] NM\_001263

mir-130b ENSG00000163624 2505 nt UTR 2 hits 365 2202

-----1-----  
-----1-----

>ENSG00000163624 hs-mir-130b 365 372  
CAGUGCAAUGAUGAAAGGGC&CCUGGCAGUGUGCCUUUUUGCACAAAUAUUUACUUUUGCACUU  
.((((((((((.((((((((((&.....)))))))))))).((((((((((.((((((((((&.....)))))))))))). -19.51

>ENSG00000163624 hs-mir-130b 2202 2209  
CAGUGCAAUGAUGAAAGGGC&UUGCCAUAAAACCCUGACUUGGCUCAUUUUGAUUUUUGCACUGU  
((((((((((....(((((((((&.....)))))))))).((((((((((....(((((((((&.....)))))))))). -20.30

mir-130b ENSMUSG00000029330 4294 nt UTR 3 hits 921 1845 2077

-----1-----  
1-----1-----

>ENSMUSG00000029330 hs-mir-130b 921 928  
CAGUGCAAUGAUGAAAGGGC&GGCCAGCCCCUGCUGGUAAUUAACCUCUGUCACCUUGCACUU  
.((((((((((.((((((((((&.....)))))))))).((((((((((.((((((((((&.....)))))))))). -19.20

>ENSMUSG00000029330 hs-mir-130b 1845 1852  
CAGUGCAAUGAUGAAAGGGC&AACCACCGUGAGAGCGACUGUGACCAGCGUCCAUUUGCACUGG  
((((((((((.(((((((((....((.&.....)))))))))).((((((((((.(((((((((....((.&.....)))))))))). -19.70

>ENSMUSG00000029330 hs-mir-130b 2077 2084  
CAGUGCAAUGAUGAAAGGGC&GUCCGAGAUUAAAGGCUGCCCCACUUUUGUCCCUUGCACUU  
.((((((((((.((((((((((&.....)))))))))).((((((((((.((((((((((&.....)))))))))). -22.60

mir-130b ENSRNOG00000002142 4342 nt UTR 4 hits 66 369 992 2023

--1-----1-----  
-----1-----

>ENSRNOG00000002142 hs-mir-130b 66 73  
CAGUGCAAUGAUGAAAGGGC&AGGAAGGAGCUCACAGAGCAGCUCCGACUGAAGUCUUGCACUGA  
((((((((((.(((((((((....((.&.....)))))))))).((((((((((.(((((((((....((.&.....)))))))))). -21.90

>ENSRNOG00000002142 hs-mir-130b 369 376  
CAGUGCAAUGAUGAAAGGGC&CCUGGCAGUGUGAUCCUUCUCACAAACACUGACCUUUGCACUGA  
((((((((((((((.((((((((((&.....)))))))))).((((((((((((((.((((((((((&.....)))))))))). -20.20

>ENSRNOG00000002142 hs-mir-130b 992 999  
CAGUGCAAUGAUGAAAGGGC&AGCCAGCCCCUGAUGGCAAUUAACCUCUGUCACCUUGCACUU  
.((((((((((.((((((((((&.....)))))))))).((((((((((.((((((((((&.....)))))))))). -19.20

>ENSRNOG00000002142 hs-mir-130b 2023 2030  
CAGUGCAAUGAUGAAAGGGC&CAAUCAUCCUAAGAGCCAUGUGAUGAGCGCUACAUUUGCACUGG  
((((((((((....((.&.....)))))))))).((((((((((....((.&.....)))))))))). -19.80

miRNA: mir-130b  
Human predicted target: ENSG00000164603  
Mouse predicted target: ENSMUSG00000042742  
Rat predicted target: ENSRNOG00000007224  
Hs Gene description: NM\_152556

mir-130b ENSG00000164603 4597 nt UTR 3 hits 381 851 1311

-----1-----1-----1-----  
-----  
-----

>ENSG00000164603 hs-mir-130b 381 388  
CAGUGCAAUGAUGAAAGGGC&UGAAUGGAAAACUUUAAGAUGUAGAAAGCUGUAGAUUGCACUU  
.(((((((((.((....((&.....)))))).)))).)). -14.60  
>ENSG00000164603 hs-mir-130b 851 858  
CAGUGCAAUGAUGAAAGGGC&CUCAAUAAUGACCUAAAACACCUUUUUGAAAGGGUUUGCACUU  
.(((((((((.((....((&.....)))))).)))).).....)))). -17.30  
>ENSG00000164603 hs-mir-130b 1311 1318  
CAGUGCAAUGAUGAAAGGGC&GGUUAUUACAUAUAAAAUUACCUCAUACUGAGGUUUUUGCACUGA  
(((((((((.((....((...&.....))....)))).)))). -18.60  
mir-130b ENSMUSG00000042742 2000 nt UTR 2 hits 374 1271

-----1-----1-----1-----  
-----

>ENSMUSG00000042742 hs-mir-130b 374 381  
CAGUGCAAUGAUGAAAGGGC&CAUGAGGAACCUCAAGAUGUGUAGAAAGCUGUAGAUUGCACUU  
.(((((((((.((....((&.....)))))).)))).).....)))). -14.60  
>ENSMUSG00000042742 hs-mir-130b 1271 1278  
CAGUGCAAUGAUGAAAGGGC&GGUUAUUACAUAUAAAAUUACCUCAUACUGAGGUUUUUGCACUGA  
(((((((((.((....((...&.....))....)))).)))). -18.60  
mir-130b ENSRNOG00000007224 4441 nt UTR 5 hits 380 784 1245 2784 3245

-----1-----1-----1-----  
-----1-----1-----1-----  
-----

>ENSRNOG00000007224 hs-mir-130b 380 387  
CAGUGCAAUGAUGAAAGGGC&CCUGAGAAACCUUAAGAUGUGUAGAAAGCCGUAGAUUGCACUU  
.(((((((((.((....((&.....)))))).)))).).....)))). -16.50  
>ENSRNOG00000007224 hs-mir-130b 784 791  
CAGUGCAAUGAUGAAAGGGC&ACUCAGUACUGACCUGGGACACCUUUGUGAAAGGUUUGCACUU  
.(((((((((.((....((&.....)))))).)))).).....)))). -16.46  
>ENSRNOG00000007224 hs-mir-130b 1245 1252  
CAGUGCAAUGAUGAAAGGGC&GGUUAUUACAUAUAAAAUUACCUCAUACUGAGGUUUUUGCACUGA  
(((((((((.((....((...&.....))....)))).)))). -18.60  
>ENSRNOG00000007224 hs-mir-130b 2784 2791  
CAGUGCAAUGAUGAAAGGGC&ACUCAGUACUGACCUGGGACACCUUUGUGAAAGGUUUGCACUU  
.(((((((((.((....((&.....)))))).)))).).....)))). -16.46  
>ENSRNOG00000007224 hs-mir-130b 3245 3252  
CAGUGCAAUGAUGAAAGGGC&GGUUAUUACAUAUAAAAUUACCUCAUACUGAGGUUUUUGCACUGA  
(((((((((.((....((...&.....))....)))).)))). -18.60

miRNA: mir-130b  
Human predicted target: ENSG00000169057  
Mouse predicted target: ENSMUSG00000031393  
Rat predicted target: ENSRNOG00000019947  
Hs Gene description: METHYL-CPG-BINDING PROTEIN 2 (MECP-2 PROTEIN)  
(MECP2). [Source:SWISSPROT;Acc:P51608] NM\_004992

mir-130b ENSG00000169057 10554 nt UTR 4 hits 240 976 5758 7826  
-----1-----1-----  
-----  
-----1-----  
-----1-----

>ENSG00000169057 hs-mir-130b 240 247  
CAGUGCAAUGAUGAAAGGGC&UCAGGUUGAAGACCUAACCAGGGCCAGAAGUAGCUUUGCACUU  
.((((((((...(((...(((&.....)))).....)).....)))). -17.40  
>ENSG00000169057 hs-mir-130b 976 983  
CAGUGCAAUGAUGAAAGGGC&UUUCCAAUUCUCCUUUAGGGACAGCUUAGAAUUUUUGCACUA  
.((((((((((((...(((...(((&.....)))).....)).....)).....)))). -17.66  
>ENSG00000169057 hs-mir-130b 5758 5765  
CAGUGCAAUGAUGAAAGGGC&GCCAGGUGAAGGAGGCUCAGGCAGCACCCAGGUUUGCACUC  
.((((((((...(((...(((&.....)))).....)).....)))). -15.70  
>ENSG00000169057 hs-mir-130b 7826 7833  
CAGUGCAAUGAUGAAAGGGC&CCUUC CAGGGCAAUAAAUGACCAUGGAGGGGGCUUGCACUC  
.((((((((...(((...(((&.....)))).....)).....)))). -13.94  
mir-130b ENSMUSG00000031393 10591 nt UTR 2 hits 239 947

-----1-----1-----  
-----  
-----  
-----

>ENSMUSG00000031393 hs-mir-130b 239 246  
CAGUGCAAUGAUGAAAGGGC&UCAGGUUGAAGACCUAACCAGGGCCAGAAGUAGCUUUGCACUU  
.((((((((...(((...(((&.....)))).....)).....)))). -17.40  
>ENSMUSG00000031393 hs-mir-130b 947 954  
CAGUGCAAUGAUGAAAGGGC&UUUCCAGUUCUCCUUUAGGGACAGCUUAGAAUUUUUGCACUA  
.((((((((((((...(((...(((&.....)))).....)).....)).....)))). -17.66

mir-130b ENSRNOG00000019947 2028 nt UTR 2 hits 242 952  
-----1-----1-----

>ENSRNOG00000019947 hs-mir-130b 242 249  
CAGUGCAAUGAUGAAAGGGC&UCAGGUUGAAGACCUAACCAGGGCCAGAAGUAGCUUUGCACUU  
.((((((((...(((...(((&.....)))).....)).....)))). -17.40  
>ENSRNOG00000019947 hs-mir-130b 952 959  
CAGUGCAAUGAUGAAAGGGC&UUUCCAGUUCUCCUUUAGGGACAGCUUAGAAUUUUUGCACUA  
.((((((((((((...(((...(((&.....)))).....)).....)).....)))). -17.66

miRNA: mir-130b  
Human predicted target: ENSG00000169946  
Mouse predicted target: ENSMUSG00000022306  
Rat predicted target: ENSRNOG00000004109

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-130b ENSG00000169946 2000 nt UTR 2 hits 310 518

-----1-----1-----  
-----

>ENSG00000169946 hs-mir-130b 310 317  
CAGUGCAAUGAUGAAAGGGC&AUGUUUAUGUAUAGUUAUUGUGUAGCACAUAUGGUUUGCACUGU  
((((((((.....((&.....)))))))). -16.51

>ENSG00000169946 hs-mir-130b 518 525  
CAGUGCAAUGAUGAAAGGGC&CUUAAGAUUUCAAUUCUUGGAUAAUCAGGCUCUGUUGCACUU  
.((((((((.....((((&.....))))).)))). -17.30

mir-130b ENSMUSG00000022306 3019 nt UTR 3 hits 322 534 1756

-----1-----1-----1-----

>ENSMUSG00000022306 hs-mir-130b 322 329  
CAGUGCAAUGAUGAAAGGGC&UAAUGAUUGUAUAGUUCUUGUGUAGCACAUAUGGUUUGCACUGU  
((((((((.....((((&.....))))).)))). -18.10

>ENSMUSG00000022306 hs-mir-130b 534 541  
CAGUGCAAUGAUGAAAGGGC&CUUAAGAUUUCAAUUCUUGGAUAAUCAGGCUCCAAUUGCACUU  
.((((((((.....((((&.....))))).)))). -16.30

>ENSMUSG00000022306 hs-mir-130b 1756 1763  
CAGUGCAAUGAUGAAAGGGC&AACACUUCAGGGAUGUCAGGUCAGCCUACUUCAGCUUGCACUC  
.((((((((.....((((&.....))))).)))). -20.80

mir-130b ENSRNOG00000004109 2000 nt UTR 3 hits 320 534 1871

-----1-----1-----  
1-----

>ENSRNOG00000004109 hs-mir-130b 320 327  
CAGUGCAAUGAUGAAAGGGC&AUGUUUAUGUAUAGUUAUUGUGUAGCACAUAUGGUUUGCACUGU  
((((((((.....((&.....)))))))). -16.51

>ENSRNOG00000004109 hs-mir-130b 534 541  
CAGUGCAAUGAUGAAAGGGC&CUUAAGGUUUCGAUUCUCGGCUAAUCAGGCCCCAGUUGCACUU  
.((((((((.....((((&.....))))).)))). -19.60

>ENSRNOG00000004109 hs-mir-130b 1871 1878  
CAGUGCAAUGAUGAAAGGGC&GGAAAACACUUCGUGGGGGUCAGCCUCCUUCAACUUGCACUC  
.((((((((.....((((&.....))))).)))). -21.10

miRNA: mir-130b

Human predicted target: ENSG00000170540

Mouse predicted target: ENSMUSG00000030654

Rat predicted target: ENSRNOG00000017751

Hs Gene description: ARL-6 INTERACTING PROTEIN-1 (AIP-1).

[Source:SWISSPROT;Acc:Q15041] NM\_015161

mir-130b ENSG00000170540 3585 nt UTR 2 hits 669 1281

-----1-----1-----  
-----

>ENSG00000170540 hs-mir-130b 669 676



CAGUGCAAUGAUGAAAGGGC&AAAGGAAUGUCUGACAGGCUUAAGCUUUCGUCCCCUUGCACUU  
.((((((((((((((&.....))))))....))))))....)))). -22.20  
>ENSG00000170540 hs-mir-130b 1281 1288  
CAGUGCAAUGAUGAAAGGGC&UGAUUAACUAGCUGUAAUAGUUUUGUGAAUUUAUUGCACUGA  
((((((((((((((&.....))))))....))))))....)))). -20.60  
mir-130b ENSMUSG00000030654 3393 nt UTR 2 hits 546 839  
-----1-----1-----

>ENSMUSG00000030654 hs-mir-130b 546 553  
CAGUGCAAUGAUGAAAGGGC&AGGACUGGCAGGCUUUGACUGACCUCUCAUCCCUUGCACUGC  
((((((((((((((&.....))))))....))))))....)))). -23.70  
>ENSMUSG00000030654 hs-mir-130b 839 846  
CAGUGCAAUGAUGAAAGGGC&UUCGUAGUAUUGGCUGUAUUUCAGUGCCUCCAGCUUUGCACUU  
.((((((((((((((&.....))))))....))))))....)))). -18.60  
mir-130b ENSRNOG00000017751 2078 nt UTR 2 hits 1604 1880  
-----1-----

-1-----  
>ENSRNOG00000017751 hs-mir-130b 1604 1611  
CAGUGCAAUGAUGAAAGGGC&GAAUCUGACAGGCUUUGACUGACCUCACAUCCCUUGCACUGC  
((((((((((((((&.....))))))....))))))....)))). -20.60  
>ENSRNOG00000017751 hs-mir-130b 1880 1887  
CAGUGCAAUGAUGAAAGGGC&UUCGUAGUAUUGGCUGUAUUUCAGUCACUCCAGCUUUGCACUU  
.((((((((((((((&.....))))))....))))))....)))). -17.60

miRNA: mir-130b  
Human predicted target: ENSG00000180592  
Mouse predicted target: ENSMUSG00000048466  
Rat predicted target: ENSRNOG00000000149  
mir-130b ENSG00000180592 2000 nt UTR 3 hits 576 1446 1562  
-----1-----1-----1-----

>ENSG00000180592 hs-mir-130b 576 583  
CAGUGCAAUGAUGAAAGGGC&UCUUUUGACUCCCUUAUUCUCCUCUCCAAGAGUAGUUGCACUU  
.((((((((((((((&.....))))))....))))))....)))). -19.30  
>ENSG00000180592 hs-mir-130b 1446 1453  
CAGUGCAAUGAUGAAAGGGC&UACUGCAAGUGACAAUCAGAGGUGACUAUCUAUAUUUGCACUU  
.((((((((((((((&.....))))))....))))))....)))). -14.20  
>ENSG00000180592 hs-mir-130b 1562 1569  
CAGUGCAAUGAUGAAAGGGC&UGAUGAUGGAAGCAGUAAAUCAAAUAUUGGAAAUUGCACUGU  
((((((((((((((&.....))))))....))))))....)))). -16.91  
mir-130b ENSMUSG00000048466 3521 nt UTR 3 hits 571 1106 1216  
-----1-----1-----1-----

>ENSMUSG00000048466 hs-mir-130b 571 578  
CAGUGCAAUGAUGAAAGGGC&UUUUUCUAAACCCAGAUUCCCUUCCAAUAGUAGUUGCACUU  
.((((((((((((((&.....))))))....))))))....)))). -22.80  
>ENSMUSG00000048466 hs-mir-130b 1106 1113

CAGUGCAAUGAUGAAAGGGC&UACUGCAAGUGACAAUCAGAGGUGACUAUCUAUUAUUUGCACUU  
.(((((((.....((.(.(&.....))..))..)).....))))). -14.20  
>ENSMUSG00000048466 hs-mir-130b 1216 1223  
CAGUGCAAUGAUGAAAGGGC&UAAAGAUGAGAGCAGUAAAUCAAAAUAUGGAAAUUUGCACUGU  
(((((((.....((.(.(&.....))..))..)).....))))). -16.91  
mir-130b ENSRNOG00000000149 2000 nt UTR 3 hits 569 1094 1256  
-----1-----1-----1-----

>ENSRNOG00000000149 hs-mir-130b 569 576  
CAGUGCAAUGAUGAAAGGGC&UAAAGAGCAAACCCUCAUUCUUCCAAGAGUACUUGCACUU  
.(((((((.....((.(.(&.....))..))..)).....))))). -20.60  
>ENSRNOG00000000149 hs-mir-130b 1094 1101  
CAGUGCAAUGAUGAAAGGGC&UCUACUGCAAGUGACAAUCAGAGGUGACUCUAUUAUUUGCACUU  
.(((((((.....((.(.(&.....))..))..)).....))))). -14.50  
>ENSRNOG00000000149 hs-mir-130b 1256 1263  
CAGUGCAAUGAUGAAAGGGC&UAAAGACAAGAGCAGUAAAUCAAAACUAUGGAAAUUUGCACUGU  
(((((((.....((.(.(&.....))..))..)).....))))). -16.91

miRNA: mir-130b  
Human predicted target: ENSG00000184371  
Mouse predicted target: ENSMUSG00000014599  
Rat predicted target: ENSRNOG00000018659  
Hs Gene description: MACROPHAGE COLONY STIMULATING FACTOR-1 PRECURSOR  
(CSF-1) (MCSF) (M-CSF). [Source:SWISSPROT;Acc:P09603] NM\_172211  
mir-130b ENSG00000184371 4161 nt UTR 2 hits 800 1064  
-----1-----1-----

>ENSG00000184371 hs-mir-130b 800 807  
CAGUGCAAUGAUGAAAGGGC&AGGCCAAGCAGAGGCUCUUUCAUGAAGGAAGCCAUUGCACUGU  
(((((((.....((.(.(&.....))..))..)).....))))). -23.40  
>ENSG00000184371 hs-mir-130b 1064 1071  
CAGUGCAAUGAUGAAAGGGC&CUUUAGGCUGUGUUGUUCGCCAGGUUUCUGCAUCUUGCACUU  
.(((((((.....((.(.(&.....))..))..)).....))))). -22.30  
mir-130b ENSMUSG00000014599 4102 nt UTR 3 hits 787 896 1057  
-----1-----1-----1-----

>ENSMUSG00000014599 hs-mir-130b 787 794  
CAGUGCAAUGAUGAAAGGGC&UUGCCCAGCAGAGGCACCCUCAUGAAGGAAGCCAUUGCACUGU  
(((((((.....((.(.(&..))..)).....))))). -23.55  
>ENSMUSG00000014599 hs-mir-130b 896 903  
CAGUGCAAUGAUGAAAGGGC&UGUUCUCCACUCCUUCAGCCUCUCCUCGGCUUCUUGCACUGA  
(((((((.....((.(.(&.....))..))..)).....))))). -21.60  
>ENSMUSG00000014599 hs-mir-130b 1057 1064  
CAGUGCAAUGAUGAAAGGGC&CUUUGGGCUGUGUUCUUGCCAGGUUUCUGCAUCUUGCACUU  
.(((((((.....((.(.(&.....))..))..)).....))))). -22.00

mir-130b ENSRNOG00000018659 3232 nt UTR 3 hits 831 940 1100  
-----1-----1-----1-----

>ENSRNOG00000018659 hs-mir-130b 831 838  
CAGUGCAAUGAUGAAAGGGC&UUUGCCAGCAGAGGCACCCCUCAUGAAGGAAGCCAUUGCACUGU  
((((((((((((((..(((&.....)).)).)).)).)).)).)).)). -23.40  
>ENSRNOG00000018659 hs-mir-130b 940 947  
CAGUGCAAUGAUGAAAGGGC&UGUUCUCCCACUCCUUCUACCUCCUCAGCUUCUUGCACUGA  
((((((((((((((..(((&.....)).)).)).)).)).)).)). -22.30  
>ENSRNOG00000018659 hs-mir-130b 1100 1107  
CAGUGCAAUGAUGAAAGGGC&CUUUAGGCUGUGUUCUACCUAGGUUUUUGCAUCUUGCACUU  
..((((((((((((((..(((&.....)).)).)).)).)).)). -20.50

miRNA: mir-130  
Human predicted target: ENSG00000085832  
Mouse predicted target: ENSMUSG00000028552  
Rat predicted target: ENSRNOG00000010299  
Hs Gene description: EPIDERMAL GROWTH FACTOR RECEPTOR SUBSTRATE 15  
(PROTEIN EPS15) (AF-1P PROTEIN). [Source:SWISSPROT;Acc:P42566] NM\_001981  
mir-130 ENSG00000085832 3473 nt UTR 2 hits 1550 1781

-----1-----1-----

>ENSG00000085832 hs-mir-130 1550 1557  
CAGUGCAAUGUUAAGGGC&CUCCUACAGUUUAAAACAAACUUUAAACCACUAUCUUGCACUGC  
((((((((((((((..(((&.....)).)).)).)).)).)).)). -16.40  
>ENSG00000085832 hs-mir-130 1781 1788  
CAGUGCAAUGUUAAGGGC&UAGGAUAAAGGUAAGUUGACUUGAACAACUUUCUUUUGCACUGG  
((((((((((((((..(((&.....)).)).)).)).)).)). -16.89  
mir-130 ENSMUSG00000028552 2229 nt UTR 3 hits 271 1497 1725

-----1-----1-----1-----

>ENSMUSG00000028552 hs-mir-130 271 278  
CAGUGCAAUGUUAAGGGC&GUUCUGGUGUGCAUUAUAGUGAGCUCUUGCCUGCUUGCACUA  
..((((((((((((((..(((&.....)).)).)).)).)).)). -22.00  
>ENSMUSG00000028552 hs-mir-130 1497 1504  
CAGUGCAAUGUUAAGGGC&AUAGCUGGGAUUUAAAACAAACUUCUACCUUCUUGCACUGC  
((((((((((((((..(((&.....)).)).)).)).)).)). -17.50  
>ENSMUSG00000028552 hs-mir-130 1725 1732  
CAGUGCAAUGUUAAGGGC&CAGGAGAAAGGUAAGUUGACUUGAAUAACCUUCGUUUGCACUGA  
((((((((((((((..(((&.....)).)).)).)).)).)). -19.50  
mir-130 ENSRNOG00000010299 2998 nt UTR 3 hits 1953 2193 2673

-----1-----1-----1-----

>ENSRNOG00000010299 hs-mir-130 1953 1960  
CAGUGCAAUGUUAAGGGC&CUAGGAUUUAAAGCAAACUUAUUAAACCACUCCUUGCACUGU  
((((((((((((((..(((&.....)).)).)).)).)).)). -17.00  
>ENSRNOG00000010299 hs-mir-130 2193 2200

CAGUGCAAUGUUA AAAAGGGC&CAGGAGAAAGGUAAGUUGACUUGAAUAAACUUUGUUUGCACUGA  
(((((((((((((.....(&.....)))))))). -16.69  
>ENSRNOG00000010299 hs-mir-130 2673 2680  
CAGUGCAAUGUUA AAAAGGGC&UAGAAGUGUGUACUAUCUCAUUUUGCAUCGGAGCUUUGCACUGU  
(((((((((((((.....(&.....)))))))). -19.30

miRNA: mir-130

Human predicted target: ENSG00000106511

Mouse predicted target: ENSMUSG00000036144

Rat predicted target: ENSRNOG00000006588

Hs Gene description: HOMEBOX PROTEIN MOX-2 (MESENCHYME HOMEBOX 2)  
(GROWTH ARREST-SPECIFIC HOMEBOX). [Source:SWISSPROT;Acc:P50222] NM\_005924

mir-130 ENSG00000106511 3175 nt UTR 2 hits 280 433

-----1-----1-----

>ENSG00000106511 hs-mir-130 280 287  
CAGUGCAAUGUUA AAAAGGGC&CGUAUGGCAGUGAGCAGGUAUGUGUUUGCUUUUGCUUGCACUGA  
(((((((((((((.....(&.....)))))))). -20.10  
>ENSG00000106511 hs-mir-130 433 440

CAGUGCAAUGUUA AAAAGGGC&CAUGUGUAUUACAGUGGGCAGGUAUUUGCUUUUGCUUGCACUGA  
(((((((((((((.....(&.....)))))))). -20.10  
mir-130 ENSMUSG00000036144 3121 nt UTR 2 hits 270 426

-----1-----1-----

>ENSMUSG00000036144 hs-mir-130 270 277  
CAGUGCAAUGUUA AAAAGGGC&AUAUGACAGAGAGGGGAGAUGGAUGUUUGCUUUGGCUUGCACUGA  
(((((((((((((.....(&.....)))))))). -21.50  
>ENSMUSG00000036144 hs-mir-130 426 433

CAGUGCAAUGUUA AAAAGGGC&CAUGUGUGUGACACUAGGCAGGUAUUUGCUUUUGCUUGCACUGA  
(((((((((((((.....(&.....)))))))). -20.10  
mir-130 ENSRNOG00000006588 3146 nt UTR 2 hits 274 424

-----1-----1-----

>ENSRNOG00000006588 hs-mir-130 274 281  
CAGUGCAAUGUUA AAAAGGGC&AUAUGACAGAGAGGGGAGAUGAAUGUUUGCUUUGGCUUGCACUGA  
(((((((((((((.....(&.....)))))))). -21.50  
>ENSRNOG00000006588 hs-mir-130 424 431

CAGUGCAAUGUUA AAAAGGGC&CAUGUGUGUGACACUGGGCAGGUAUUUGCUUUUGCUUGCACUGA  
(((((((((((((.....(&.....)))))))). -20.10

miRNA: mir-130

Human predicted target: ENSG00000108292

Mouse predicted target: ENSMUSG00000038437

Rat predicted target: ENSRNOG00000012135

Hs Gene description: AF-17 PROTEIN. [Source:SWISSPROT;Acc:P55198]  
NM\_005937

mir-130 ENSG00000108292 2000 nt UTR 2 hits 694 1416  
-----1-----1-----  
-----

>ENSG00000108292 hs-mir-130 694 701  
CAGUGCAAUGUUA AAAAGGGC&GAGGCUCUGGCCUUCUUGGUGCCCCGCCCUUUGUUUGCACUA  
.((((((((.....(((((&.....)))))))).))))). -24.20  
>ENSG00000108292 hs-mir-130 1416 1423

CAGUGCAAUGUUA AAAAGGGC&CGAGAGGCAAGGCGAAGCCUGUGUCCUGUUUCAGUUGCACUGG  
((((((((.....(((.&.....))))).))))). -24.90  
mir-130 ENSMUSG00000038437 2941 nt UTR 2 hits 625 1350  
-----1-----1-----  
-----

>ENSMUSG00000038437 hs-mir-130 625 632  
CAGUGCAAUGUUA AAAAGGGC&GACGUCCCGUGCUGACCUGGGUGCCCUGCCCCUUUUUGCACUA  
.((((((((.....(((((&.....))))).))))). -22.36  
>ENSMUSG00000038437 hs-mir-130 1350 1357

CAGUGCAAUGUUA AAAAGGGC&GGAGCACCGCCAAGGAGGCCUUGUGUCCCUUUUGGUUGCACUGG  
((((((((.....(((.&.....)))))))).))))). -26.70  
mir-130 ENSRNOG00000012135 2879 nt UTR 2 hits 624 1337  
-----1-----1-----  
-----

>ENSRNOG00000012135 hs-mir-130 624 631  
CAGUGCAAUGUUA AAAAGGGC&CUCUUGGGGCCCAUGAUGGGGCUCCUGCCCCUUUUUGCACUA  
.((((((((.....(((.&.....))))).))))). -19.40  
>ENSRNOG00000012135 hs-mir-130 1337 1344

CAGUGCAAUGUUA AAAAGGGC&CGGAGCACUGCUACGGAAGCCUGUGUCCCUUUUGGUUGCACUGG  
((((((((.....(((.&.....)))))))).))))). -26.70

miRNA: mir-130  
Human predicted target: ENSG00000115170  
Mouse predicted target: ENSMUSG00000026836  
Rat predicted target: ENSRNOG00000005033  
Hs Gene description: ACTIVIN RECEPTOR TYPE I PRECURSOR (EC 2.7.1.37)  
(ACTR-I) (SERINE/THREONINE-PROTEIN KINASE RECEPTOR R1) (SKR1) (ACTIVIN  
RECEPTOR-LIKE KINASE 2) (ALK-2) (TGF-B SUPERFAMILY RECEPTOR TYPE I) (TSR-  
I). [Source:SWISSPROT;Acc:Q04771] NM\_001105  
mir-130 ENSG00000115170 3093 nt UTR 2 hits 419 448  
-----11-----  
-----

>ENSG00000115170 hs-mir-130 419 426  
CAGUGCAAUGUUA AAAAGGGC&UUAUUCAGCAAUAUUGCCUGUGCUUCUCUUCUUUAUUGCACUA  
.((((((((.....(((.&.....))))).))))). -19.10  
>ENSG00000115170 hs-mir-130 448 455

CAGUGCAAUGUUA AAAAGGGC&UCUUUAUUGCACUAGGAAUUCUUUGCAUUCUUACUUGCACUGU  
((((((((.....(((.&.....)))))))).))))). -19.80  
mir-130 ENSMUSG00000026836 2105 nt UTR 2 hits 427 456

-----11-----

>ENSMUSG00000026836 hs-mir-130 427 434  
CAGUGCAAUGUUA AAAAGGGC&UCGUAAUCAGCAAUAUCGGCUGCAUCUACUCUUCGUUGCACUA  
.((((((((((.....(((((&.....))))))))))))). -19.50

>ENSMUSG00000026836 hs-mir-130 456 463  
CAGUGCAAUGUUA AAAAGGGC&UCUUCGUUGCACUAGGAAUUCUGUGCAUUCUUCUUGCACUGU  
((((((((((.....(((((&.....))))))))))))). -19.80  
mir-130 ENSRNOG00000005033 2106 nt UTR 2 hits 439 468

-----11-----

>ENSRNOG00000005033 hs-mir-130 439 446  
CAGUGCAAUGUUA AAAAGGGC&UAAUCAGCAAUAUUGGCUGCGCCUACUCUUCUCUGUUGCACUA  
.((((((((((.....(((((&.....))))))))))))). -17.83

>ENSRNOG00000005033 hs-mir-130 468 475  
CAGUGCAAUGUUA AAAAGGGC&UCUCUGUUGCACUAGGAAUUCUCUGCAUUCUUCUUGCACUGU  
((((((((((.....(((((&.....))))))))))))). -19.80

miRNA: mir-130

Human predicted target: ENSG00000130164

Mouse predicted target: ENSMUSG00000032193

Rat predicted target: ENSRNOG00000009946

Hs Gene description: LOW-DENSITY LIPOPROTEIN RECEPTOR PRECURSOR (LDL RECEPTOR). [Source:SWISSPROT;Acc:P01130] NM\_000527

mir-130 ENSG00000130164 2207 nt UTR 4 hits 813 871 1970 2161

-----1-1-----  
----1-----1--

>ENSG00000130164 hs-mir-130 813 820  
CAGUGCAAUGUUA AAAAGGGC&CCCGACCCCUACCCACUCCAUCUCCGUGGUCUCCUUGCACUU  
.((((((((((.....(((((&.....))))))))))))). -17.22

>ENSG00000130164 hs-mir-130 871 878  
CAGUGCAAUGUUA AAAAGGGC&GUACACUGUGUACAUAUUGGCAUUGUGUUAUAUUUUGCACUGU  
((((((((((.....(((((&.....))))))))))))). -17.93

>ENSG00000130164 hs-mir-130 1970 1977  
CAGUGCAAUGUUA AAAAGGGC&GACUUCAGGUUCUUCUGAAAUCGCCGUGUACUGUUGCACUGA  
((((((((((.....(((((&.....))))))))))))). -24.00

>ENSG00000130164 hs-mir-130 2161 2168  
CAGUGCAAUGUUA AAAAGGGC&GUCCUGUACAGAUAGUGGGGAUUUUUGUUAUGUUGCACUU  
.((((((((((.....(((((&.....))))))))))))). -16.75  
mir-130 ENSMUSG00000032193 3530 nt UTR 2 hits 571 642

-----1-1-----

>ENSMUSG00000032193 hs-mir-130 571 578  
CAGUGCAAUGUUA AAAAGGGC&GUCCUGUACAGAUAGUGGGGAUUUUUGUUAUGUUGCACUU  
.((((((((((.....(((((&.....))))))))))))). -17.59

>ENSMUSG00000032193 hs-mir-130 642 649  
CAGUGCAAUGUUA AAAAGGGC&UGGGCACCCACGUGGUCCACAUUUGUACUCCUAGGUUGCACUGA

((((((((((.(.....(((.&.....)))))).)))))). -20.20  
mir-130 ENSRNOG0000009946 2000 nt UTR 2 hits 1479 1548

-----1-1-----  
-----

>ENSRNOG0000009946 hs-mir-130 1479 1486  
CAGUGCAAUGUUAAGGGC&CGUCUCAUGCCAGCCCUACUGUCCAUGGGAGAUUUGCACUU  
.((((((((((.(.....(((.&.....)))))).)))))). -17.20  
>ENSRNOG0000009946 hs-mir-130 1548 1555  
CAGUGCAAUGUUAAGGGC&UGGGCACCCACGUGGCCCGCUGUCUGUACUCCUAGGUUGCACUGU  
((((((((((.(.....(((.&.....)))))).)))))). -22.21

miRNA: mir-130  
Human predicted target: ENSG00000147642  
Mouse predicted target: ENSMUSG00000022340  
Rat predicted target: ENSRNOG00000004200  
Hs Gene description: NM\_017786

mir-130 ENSG00000147642 2720 nt UTR 2 hits 120 299  
----1-----1-----

-----  
>ENSG00000147642 hs-mir-130 120 127  
CAGUGCAAUGUUAAGGGC&UCUCUAUUCUGUCGUUUUGCUCUCCUUGGUUUUGAUUUGCACUA  
.((((((((((.(.....(((.&.....)))))).)))))). -18.90

>ENSG00000147642 hs-mir-130 299 306  
CAGUGCAAUGUUAAGGGC&UCUUAUCCUAGUGGUUCAGGAAGAGAAAACGCAGUUUGCACUU  
.((((((((((.(.....&.....)))))).))))). -13.40

mir-130 ENSMUSG00000022340 2000 nt UTR 3 hits 111 289 1172  
----1-----1-----1-----

-----  
>ENSMUSG00000022340 hs-mir-130 111 118  
CAGUGCAAUGUUAAGGGC&CUCUAUUCUGUCAGUUUUGCUCUUCUCGCUAUUUGAUUUGCACUA  
.((((((((((.(.....(((.&.....)))))).)))))). -18.30

>ENSMUSG00000022340 hs-mir-130 289 296  
CAGUGCAAUGUUAAGGGC&UCUUAUACUAAUGGUUCAGGAAGAGAAAUGCCGUUUGCACUU  
.((((((((((.(.....&.....)))))).))))). -14.81

>ENSMUSG00000022340 hs-mir-130 1172 1179  
CAGUGCAAUGUUAAGGGC&AGGCAUGCAGCUGCUUGCACACAAUCAGCAGUUGCACUC  
.((((((((((.(.....(((.&.....)))))).)))))). -14.53

mir-130 ENSRNOG00000004200 2000 nt UTR 2 hits 113 291  
----1-----1-----

-----  
>ENSRNOG00000004200 hs-mir-130 113 120  
CAGUGCAAUGUUAAGGGC&GUCUCUAUUGUCAUUUUGCUCUCCUUGCUAUUUGAUUUGCACUA  
.((((((((((.(.....(((.&.....)))))).)))))). -18.90

>ENSRNOG00000004200 hs-mir-130 291 298  
CAGUGCAAUGUUAAGGGC&UCUUAUACUAAUGGUUCAGAAAGAGAAAUGCAGUUUGCACUU  
.((((((((((.(.....&.....)))))).))))). -13.30

miRNA: mir-130

Human predicted target: ENSG00000155111

Mouse predicted target: ENSMUSG00000038481

Rat predicted target: ENSRNOG0000000583

mir-130 ENSG00000155111 6557 nt UTR 2 hits 1219 1645

-----1-----1-----  
-----  
-----

>ENSG00000155111 hs-mir-130 1219 1226  
CAGUGCAAUGUUAAGGGC&UUACUGAAACUUAUUCUAUCAAGAAUCUUUUUCAUUGCACUGA  
((((((((((..((((((..&.....)))))))).)))))))). -24.10

>ENSG00000155111 hs-mir-130 1645 1652  
CAGUGCAAUGUUAAGGGC&AGUAAAAUAAGAUUAGACAGAAGCCAGUAUACAUUUUGCACUA  
.((((((((((.....(((&.....)))))))).)))))))). -18.70

mir-130 ENSMUSG00000038481 4297 nt UTR 3 hits 1163 1575 3108  
-----1-----1-----  
-----1-----

>ENSMUSG00000038481 hs-mir-130 1163 1170  
CAGUGCAAUGUUAAGGGC&UUACUGAGACUUAACGCUGUCAAGAAUCUUUUGUAUUGCACUGA  
((((((((((..((((((..&.....)))))))).)))))))). -21.40

>ENSMUSG00000038481 hs-mir-130 1575 1582  
CAGUGCAAUGUUAAGGGC&AAGUAAAAUAAGAUUUUAGAAGCCAGUAUACAUUUUGCACUA  
.((((((((((.....(((&.....)))))))).)))))))). -18.70

>ENSMUSG00000038481 hs-mir-130 3108 3115  
CAGUGCAAUGUUAAGGGC&GCUUUUGAAACCUUAGGACUUGGAGCUCUGACAUUUUGCACUC  
.((((((((((..((((((..&.....)))))))).)))))))). -19.60

mir-130 ENSRNOG0000000583 4096 nt UTR 4 hits 1147 1520 3249 3664  
-----1-----1-----  
-----1-----1-----1-----

>ENSRNOG0000000583 hs-mir-130 1147 1154  
CAGUGCAAUGUUAAGGGC&UUACUGAGACUUAACGCUGUCAAGAACCUUUUUUAUUGCACUGA  
((((((((((..((((((..&.....)))))))).)))))))). -25.30

>ENSRNOG0000000583 hs-mir-130 1520 1527  
CAGUGCAAUGUUAAGGGC&AGUAAACUAGGAUUUUUAGAAGCCAGUAUACAUUUUGCACUA  
.((((((((((.....(((&.....)))))))).)))))))). -18.70

>ENSRNOG0000000583 hs-mir-130 3249 3256  
CAGUGCAAUGUUAAGGGC&UUACUGAGACUUAACGCUGUCAAGAACCUUUUUUAUUGCACUGA  
((((((((((..((((((..&.....)))))))).)))))))). -25.30

>ENSRNOG0000000583 hs-mir-130 3664 3671  
CAGUGCAAUGUUAAGGGC&AGUAAACUAGGAUUUUUAGAAGCCAGUAUACAUUUUGCACUA  
.((((((((((.....(((&.....)))))))).)))))))). -18.70

miRNA: mir-130



Human predicted target: ENSG00000163624  
Mouse predicted target: ENSMUSG00000029330  
Rat predicted target: ENSRNOG00000002142

Hs Gene description: PHOSPHATIDATE CYTIDYLYLTRANSFERASE 1 (EC 2.7.7.41)  
(CDP-DIGLYCERIDE SYNTHETASE 1) (CDP-DIGLYCERIDE PYROPHOSPHORYLASE 1) (CDP-DIACYLGLYCEROL SYNTHASE 1) (CDS 1) (CTP:PHOSPHATIDATE CYTIDYLYLTRANSFERASE 1) (CDP-DAG SYNTHASE 1) (CDP-DG SYNTHETASE 1).

[Source:SWISSPROT;Acc:Q92903] NM\_001263

mir-130 ENSG00000163624 2505 nt UTR 2 hits 365 2202

-----1-----  
-----1-----

>ENSG00000163624 hs-mir-130 365 372  
CAGUGCAAUGUUAAGGGC&CCUGGCAGUGUGCCUUUUUGCACAAUUAUUUACUUUUGCACUU  
.(((((((((((((((((((((&.....)))))))))).)).....)))))))). -21.60

>ENSG00000163624 hs-mir-130 2202 2209  
CAGUGCAAUGUUAAGGGC&UUGCCAUAAAACCCUGACUUGGCUCAUUUUGAUUUUGCACUGU  
(((((((((((((((((((((&.....)))))))))).)).....)))))))). -25.50

mir-130 ENSMUSG00000029330 4294 nt UTR 3 hits 921 1845 2077

-----1-----  
1-----1-----

>ENSMUSG00000029330 hs-mir-130 921 928  
CAGUGCAAUGUUAAGGGC&GGCCAGCCCCUGCUGGUAUUUAACCUCUGUCACCUUGCACUU  
.((((((((((.....(((((&.....)))))).)).....)))))))). -17.20

>ENSMUSG00000029330 hs-mir-130 1845 1852  
CAGUGCAAUGUUAAGGGC&AACCACCGUGAGAGCGACUGUGACCAGCGUCCAUUUGCACUGG  
((((((((((.....(((((&.....)))))).)).....)))))))). -19.00

>ENSMUSG00000029330 hs-mir-130 2077 2084  
CAGUGCAAUGUUAAGGGC&GUCCGAGAUUAAAGGCUGCCCCACUUUUGUCCCUUGCACUU  
.((((((((((.....(((((&.....)))))).)).....)))))))). -19.00

mir-130 ENSRNOG00000002142 4342 nt UTR 4 hits 66 369 992 2023

--1-----1-----1-----1-----  
-----1-----

>ENSRNOG00000002142 hs-mir-130 66 73  
CAGUGCAAUGUUAAGGGC&AGGAAGGAGCUCACAGAGCAGCUCGACUGAAGUCUUGCACUGA  
((((((((((((.....(((((&.....)))))).)).....)))))))). -20.16

>ENSRNOG00000002142 hs-mir-130 369 376  
CAGUGCAAUGUUAAGGGC&CCUGGCAGUGUGAUCCUUCUCACAAACACUGACCUUUGCACUGA  
((((((((((.....(((((&.....)))))).)).....)))))))). -19.40

>ENSRNOG00000002142 hs-mir-130 992 999  
CAGUGCAAUGUUAAGGGC&AGCCAGCCCCUGAUGGCAAUUAACCUCUGUCACCUUGCACUU  
.((((((((((((.....(((((&.....)))))).)).....)))))))). -20.09

>ENSRNOG00000002142 hs-mir-130 2023 2030  
CAGUGCAAUGUUAAGGGC&CAAUCAUCCUAAAGAGCCAUGUGAUGAGCGCUACAUUUGCACUGG  
((((((((((((.....(((((&.....)))))).)).....)))))))). -20.60

miRNA: mir-130

Human predicted target: ENSG00000164603

Mouse predicted target: ENSMUSG00000042742

Rat predicted target: ENSRNOG00000007224

Hs Gene description: NM\_152556

mir-130 ENSG00000164603 4597 nt UTR 3 hits 381 851 1311

-----1-----1-----1-----

>ENSG00000164603 hs-mir-130 381 388  
CAGUGCAAUGUUA AAAAGGGC&UGAAUGGAAAACUUUAAGAUGUAGAAAGCUGUAGAUUGCACUU  
.(((((((((.((...(((&.....)))))).)))).)). -15.70

>ENSG00000164603 hs-mir-130 851 858  
CAGUGCAAUGUUA AAAAGGGC&CUCAAUA AUGACCUAAAACACCUUUUUGAAAGGGUUUGCACUU  
.(((((((((.(((((((((&.....)))))))))).)))). -20.70

>ENSG00000164603 hs-mir-130 1311 1318  
CAGUGCAAUGUUA AAAAGGGC&GGUUAUUA CAUUA AAAAUUACCUCAUACUGAGGUUUUUGCACUGA  
(((((((((.((...(((&.....)))))).)))).)). -17.44

mir-130 ENSMUSG00000042742 2000 nt UTR 2 hits 374 1271

-----1-----1-----

>ENSMUSG00000042742 hs-mir-130 374 381  
CAGUGCAAUGUUA AAAAGGGC&CAUGAGGAACCUCAAGAUGUGUAGAAAGCUGUAGAUUGCACUU  
.(((((((((.((...(((&.....)))))).)))).)). -15.70

>ENSMUSG00000042742 hs-mir-130 1271 1278  
CAGUGCAAUGUUA AAAAGGGC&GGUUAUUA CAUUA AAAAUUACCUCAUACUGAGGUUUUUGCACUGA  
(((((((((.((...(((&.....)))))).)))).)). -17.44

mir-130 ENSRNOG00000007224 4441 nt UTR 5 hits 380 784 1245 2784 3245

-----1-----1-----1-----

>ENSRNOG00000007224 hs-mir-130 380 387  
CAGUGCAAUGUUA AAAAGGGC&CCUGAGAAACCUUAAGAUGUGUAGAAAGCCGUAGAUUGCACUU  
.(((((((((.((...(((&.....)))))).)))).)). -17.50

>ENSRNOG00000007224 hs-mir-130 784 791  
CAGUGCAAUGUUA AAAAGGGC&ACUCAGUACUGACCUGGGACACCUUUGUGAAAGGUUUGCACUU  
.(((((((((.(((((((((&.....)))))))))).)))). -17.80

>ENSRNOG00000007224 hs-mir-130 1245 1252  
CAGUGCAAUGUUA AAAAGGGC&GGUUAUUA CAUUA AAAAUUACCUCAUACUGAGGUUUUUGCACUGA  
(((((((((.((...(((&.....)))))).)))).)). -17.44

>ENSRNOG00000007224 hs-mir-130 2784 2791  
CAGUGCAAUGUUA AAAAGGGC&ACUCAGUACUGACCUGGGACACCUUUGUGAAAGGUUUGCACUU  
.(((((((((.(((((((((&.....)))))))))).)))). -17.80

>ENSRNOG00000007224 hs-mir-130 3245 3252  
CAGUGCAAUGUUA AAAAGGGC&GGUUAUUA CAUUA AAAAUUACCUCAUACUGAGGUUUUUGCACUGA  
(((((((((.((...(((&.....)))))).)))).)). -17.44

miRNA: mir-130

Human predicted target: ENSG00000169057

Mouse predicted target: ENSMUSG00000031393

Rat predicted target: ENSRNOG00000019947

Hs Gene description: METHYL-CPG-BINDING PROTEIN 2 (MECP-2 PROTEIN) (MECP2). [Source:SWISSPROT;Acc:P51608] NM\_004992

mir-130 ENSG00000169057 10554 nt UTR 4 hits 240 976 5758 7826

-----1-----1-----  
-----  
-----  
-----1-----  
-----1-----  
-----

>ENSG00000169057 hs-mir-130 240 247  
CAGUGCAAUGUUA AAAAGGGC&UCAGGUUGAAGACCUAAC CAGGGCCAGAAGUAGCUUUGCACUU  
.(((((((((((((.....(((&.....)))))).....)))))). -21.30  
>ENSG00000169057 hs-mir-130 976 983  
CAGUGCAAUGUUA AAAAGGGC&UUUCCAAUUCUCCUUUAGGGACAGCUUAGAAUUAUUUGCACUA  
.(((((((((((((((((.....(((&.....)))))).....)))))). -18.60  
>ENSG00000169057 hs-mir-130 5758 5765  
CAGUGCAAUGUUA AAAAGGGC&GCCAGGUGAAGGAGGCUCCAGGCAGCACCCAGGUUUUGCACUC  
.((((((((((((((((.....(((&.....)))))).....)))))). -15.60  
>ENSG00000169057 hs-mir-130 7826 7833  
CAGUGCAAUGUUA AAAAGGGC&CCUUCCAGGGCAAUAAA AUGACCAUGGAGGGGGCUUGCACUC  
.((((((((((((((((.....(((&.....)))))).....)))))). -15.54  
mir-130 ENSMUSG00000031393 10591 nt UTR 2 hits 239 947

-----1-----1-----  
-----  
-----  
-----  
-----

>ENSMUSG00000031393 hs-mir-130 239 246  
CAGUGCAAUGUUA AAAAGGGC&UCAGGUUGAAGACCUAAC CAGGGCCAGAAGUAGCUUUGCACUU  
.(((((((((((((.....(((&.....)))))).....)))))). -21.30  
>ENSMUSG00000031393 hs-mir-130 947 954  
CAGUGCAAUGUUA AAAAGGGC&UUUCCAGUUCUCCUUUAGGGACAGCUUAGAAUUAUUUGCACUA  
.((((((((((((((((.....(((&.....)))))).....)))))). -18.60  
mir-130 ENSRNOG00000019947 2028 nt UTR 2 hits 242 952

-----1-----1-----  
-----

>ENSRNOG00000019947 hs-mir-130 242 249  
CAGUGCAAUGUUA AAAAGGGC&UCAGGUUGAAGACCUAAC CAGGGCCAGAAGUAGCUUUGCACUU  
.(((((((((((((.....(((&.....)))))).....)))))). -21.30  
>ENSRNOG00000019947 hs-mir-130 952 959  
CAGUGCAAUGUUA AAAAGGGC&UUUCCAGUUCUCCUUUAGGGACAGCUUAGAAUUAUUUGCACUA  
.((((((((((((((((.....(((&.....)))))).....)))))). -18.60

miRNA: mir-130

Human predicted target: ENSG00000169946

Mouse predicted target: ENSMUSG00000022306

Rat predicted target: ENSRNOG00000004109

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-130 ENSG00000169946 2000 nt UTR 2 hits 310 518

-----1-----1-----  
-----

>ENSG00000169946 hs-mir-130 310 317  
CAGUGCAAUGUUAAGGGC&AUGUUAUUGUAUAGUUAUUGUGUAGCACAUAUGGUUUGCACUGU  
(((((((((((((((((..(((&.....))))))..))))))..))))))..)))))).. -17.50

>ENSG00000169946 hs-mir-130 518 525  
CAGUGCAAUGUUAAGGGC&CUUAAGAUUUCAAUUCUUGGAUAAUCAGGCUCUGUUGCACUU  
..((((((((.....(((((&.....))))))..)))))).. -17.30

mir-130 ENSMUSG00000022306 3019 nt UTR 3 hits 322 534 1756

-----1-----1-----1-----

>ENSMUSG00000022306 hs-mir-130 322 329  
CAGUGCAAUGUUAAGGGC&UUAUGAUUGUAUAGUUCUUGUGUAGCACAUAUGGUUUGCACUGU  
(((((((((((((((((((..(((((&.....))))))..))))))..))))))..)))))).. -22.10

>ENSMUSG00000022306 hs-mir-130 534 541  
CAGUGCAAUGUUAAGGGC&CUUAAGAUUUCAAUUCUUGGAUAAUCAGGCUCCAAUUGCACUU  
..((((((((.....(((((&.....))))))..)))))).. -16.30

>ENSMUSG00000022306 hs-mir-130 1756 1763  
CAGUGCAAUGUUAAGGGC&AACACUUCAGGGAUGUCAGGUCAGCCUACUUCAGCUUGCACUC  
..((((((((.....((((..(((((&.....))))))..))))))..)))))).. -18.90

mir-130 ENSRNOG00000004109 2000 nt UTR 3 hits 320 534 1871

-----1-----1-----  
1-----

>ENSRNOG00000004109 hs-mir-130 320 327  
CAGUGCAAUGUUAAGGGC&AUGUUAUUGUAUAGUUAUUGUGUAGCACAUAUGGUUUGCACUGU  
(((((((((((((((((((..(((&.....))))))..))))))..))))))..)))))).. -17.50

>ENSRNOG00000004109 hs-mir-130 534 541  
CAGUGCAAUGUUAAGGGC&CUUAAGGUUUCGAUUCUCGGCUAAUCAGGCCCCAGUUGCACUU  
..((((((((.....(((((&.....))))))..)))))).. -19.60

>ENSRNOG00000004109 hs-mir-130 1871 1878  
CAGUGCAAUGUUAAGGGC&GGAAACACUUCGUGGGGGUCAGCCUCCUUAACUUGCACUC  
..((((((((.....((((..(((((&.....))))))..))))))..)))))).. -19.30

miRNA: mir-130

Human predicted target: ENSG00000170540

Mouse predicted target: ENSMUSG00000030654

Rat predicted target: ENSRNOG00000017751

Hs Gene description: ARL-6 INTERACTING PROTEIN-1 (AIP-1).

[Source:SWISSPROT;Acc:Q15041] NM\_015161

mir-130 ENSG00000170540 3585 nt UTR 2 hits 669 1281

-----1-----1-----

>ENSG00000170540 hs-mir-130 669 676  
CAGUGCAAUGUUAAGGGC&AAAGGAAUGUCUGACAGGCUUAAGCUUUCGUCUUUUGCAGUU  
((((((((((..(((((&.....))))))..))..))))). -16.70

>ENSG00000170540 hs-mir-130 1281 1288  
CAGUGCAAUGUUAAGGGC&UGAUUAACUAGCUGAAUUAUAGUUUUGUGAAUUUAUUGCAGUGA  
((((((((((.....((((&.....)))))).....))))). -19.10

mir-130 ENSMUSG00000030654 3393 nt UTR 2 hits 546 839

-----1-----1-----

>ENSMUSG00000030654 hs-mir-130 546 553  
CAGUGCAAUGUUAAGGGC&AGGACUGGACAGGCUUUGACUGACCUCUCAUUCUUUGCAGUGC  
((((((((((.....((((&.....)))))).....))))). -18.91

>ENSMUSG00000030654 hs-mir-130 839 846  
CAGUGCAAUGUUAAGGGC&UUCGUAGUAUUGGCUUUAUUCAGUGCCUCCAGCUUUGCAGUU  
((((((((((.....((((&.....))))))..))..))))). -19.10

mir-130 ENSRNOG00000017751 2078 nt UTR 2 hits 1604 1880

-----1-----1-----

>ENSRNOG00000017751 hs-mir-130 1604 1611  
CAGUGCAAUGUUAAGGGC&GAAUCUGACAGGCUUUGACUGACCUCACAUUCUUUGCAGUGC  
((((((((((.....((((&.....)))))).....))))). -17.32

>ENSRNOG00000017751 hs-mir-130 1880 1887  
CAGUGCAAUGUUAAGGGC&UUCGUAGUAUUGGCUUUAUUCAGUCACUCCAGCUUUGCAGUU  
((((((((((.....((((&.....))))))..))..))))). -16.80

miRNA: mir-130

Human predicted target: ENSG00000180592

Mouse predicted target: ENSMUSG00000048466

Rat predicted target: ENSRNOG00000000149

mir-130 ENSG00000180592 2000 nt UTR 3 hits 576 1446 1562

-----1-----1-----1-----

>ENSG00000180592 hs-mir-130 576 583  
CAGUGCAAUGUUAAGGGC&UCUUUUGACUCCUUUAUUCUCCUCUCCAAGAGUAGUUGCAGUU  
((((((((((.....((((&.....)))))).....))))). -18.81

>ENSG00000180592 hs-mir-130 1446 1453  
CAGUGCAAUGUUAAGGGC&UACUGCAAGUGACAAUCAGAGGUGACUAUCUAUAUUGCAGUU  
((((((((((.....((((&.....)))))).....))))). -14.19

>ENSG00000180592 hs-mir-130 1562 1569  
CAGUGCAAUGUUAAGGGC&UGAUGAUGGAAGCAGUAAAUCAAAUAUUGGAAUUUGCAGUGU  
((((((((((.....&.....)))))).....))))). -15.80

mir-130 ENSMUSG00000048466 3521 nt UTR 3 hits 571 1106 1216

-----1-----1-----1-----

>ENSMUSG00000048466 hs-mir-130 571 578  
CAGUGCAAUGUUA AAAAGGGC&UUUUUUCUAAACCCAGAUUCCCUUCCAAUAGUAGUUGCACUU  
.(((((((((((.(((((.&.....)))))))).))))). -19.60

>ENSMUSG00000048466 hs-mir-130 1106 1113  
CAGUGCAAUGUUA AAAAGGGC&UACUGCAAGUGACAAUCAGAGGUGACUAUCUAUAUUUGCACUU  
.(((((((((((.....(&.....)))))))).))))). -14.19

>ENSMUSG00000048466 hs-mir-130 1216 1223  
CAGUGCAAUGUUA AAAAGGGC&UAAAGAUGAGAGCAGUAAAUCAAAAUAUGGAAAUUGCACUGU  
(((((((((((.....&.....)))))))).))))). -15.80

mir-130 ENSRNOG00000000149 2000 nt UTR 3 hits 569 1094 1256

-----1-----1-----1-----

>ENSRNOG00000000149 hs-mir-130 569 576  
CAGUGCAAUGUUA AAAAGGGC&UAAAGAGCAAACCCUCAUUCUUCCAAAGAGUACUUGCACUU  
.(((((((((((.(((((.&.....)))))))).))))). -18.00

>ENSRNOG00000000149 hs-mir-130 1094 1101  
CAGUGCAAUGUUA AAAAGGGC&UCUACUGCAAGUGACAAUCAGAGGUGACUCUAUAUUUGCACUU  
.(((((((((((.....(&.....)))))))).))))). -14.30

>ENSRNOG00000000149 hs-mir-130 1256 1263  
CAGUGCAAUGUUA AAAAGGGC&UAAAGACAAGAGCAGUAAAUCAAAACUAUGGAAAUUGCACUGU  
(((((((((((.....&.....)))))))).))))). -15.80

miRNA: mir-130

Human predicted target: ENSG00000184371

Mouse predicted target: ENSMUSG00000014599

Rat predicted target: ENSRNOG00000018659

Hs Gene description: MACROPHAGE COLONY STIMULATING FACTOR-1 PRECURSOR  
(CSF-1) (MCSF) (M-CSF). [Source:SWISSPROT;Acc:P09603] NM\_172211

mir-130 ENSG00000184371 4161 nt UTR 2 hits 800 1064

-----1-----1-----1-----

>ENSG00000184371 hs-mir-130 800 807  
CAGUGCAAUGUUA AAAAGGGC&AGGCCAAGCAGAGGCUCUUUCUAUGAAGGAAGCCAUUGCACUGU  
(((((((((((.(((((.&.....)))))))).))))). -23.01

>ENSG00000184371 hs-mir-130 1064 1071  
CAGUGCAAUGUUA AAAAGGGC&CUUUAGGCUGUGUUGUUCGCCAGGUUUCUGCAUCUUGCACUU  
.(((((((((((.(((((.&.....)))))))).))))). -20.50

mir-130 ENSMUSG00000014599 4102 nt UTR 3 hits 787 896 1057

-----1-----1-----1-----

>ENSMUSG00000014599 hs-mir-130 787 794  
CAGUGCAAUGUUA AAAAGGGC&UUGCCCAGCAGAGGCACUUUCUAUGAAGGAAGCCAUUGCACUGU  
(((((((((((.(((((.&.....)))))))).))))). -23.01



UAAAGCUAGAUAAACCGAAAGU&UUAUAUAUUUUACAAUGCUUUCUACCUGAAAUGUGUAGCUUUC  
.((((((((((...((((&.....)))))).....))))). -15.40  
>ENSRNOG00000003762 hs-mir-131 287 294  
UAAAGCUAGAUAAACCGAAAGU&CAGUCCUUGUUUUUUUGAAGCCUGUGCUGAGGUUUUAGCUUUU  
.((((((((((...((((&.....))))..)))))))). -17.60

miRNA: mir-131

Human predicted target: ENSG00000113742  
Mouse predicted target: ENSMUSG00000020300  
Rat predicted target: ENSRNOG00000020689

mir-131 ENSG00000113742 6172 nt UTR 3 hits 1385 2030 2244

-----1-----  
-----1-----1-----  
-----

>ENSG00000113742 hs-mir-131 1385 1392  
UAAAGCUAGAUAAACCGAAAGU&AUCAAGUAAUGCAUGCUUUUAUUAUAAAUAUAAUUCUAGCUUUGA  
((((((((((...((((&.....)))).....)))))))). -16.75  
>ENSG00000113742 hs-mir-131 2030 2037

UAAAGCUAGAUAAACCGAAAGU&UGAUGAGUUAACAAGAAUAACACUGUUUGAGAACUAGCUUUGA  
((((((((((...((((&.....))))..)))))))). -16.00  
>ENSG00000113742 hs-mir-131 2244 2251

UAAAGCUAGAUAAACCGAAAGU&UUAUGCAAUACCUCAAUUUUUCAUAUUGCAAAGAGUAGCUUUU  
.((((((((...&.....)))))). -11.00  
mir-131 ENSMUSG00000020300 2665 nt UTR 3 hits 1312 1967 2178

-----1-----  
-----1-----1-----

>ENSMUSG00000020300 hs-mir-131 1312 1319  
UAAAGCUAGAUAAACCGAAAGU&AUCAAGUAAUGCAUGCUUUUAUUAUAAAUAACAACCCUAGCUUUGA  
((((((((((...((((&.....))))..)))))))). -15.10  
>ENSMUSG00000020300 hs-mir-131 1967 1974

UAAAGCUAGAUAAACCGAAAGU&UGAUGAGUUAACAAGAACUAACACUGCUUGAGAACUAGCUUUGA  
((((((((((...((((&.....))))..)))))))). -15.90  
>ENSMUSG00000020300 hs-mir-131 2178 2185

UAAAGCUAGAUAAACCGAAAGU&UUAUGCAAUACCUCAAUUUUUCAUAUUGCAAAGAGUAGCUUUU  
.((((((((...&.....)))))). -11.00  
mir-131 ENSRNOG00000020689 2667 nt UTR 3 hits 1314 1933 2145

-----1-----  
-----1-----1-----

>ENSRNOG00000020689 hs-mir-131 1314 1321  
UAAAGCUAGAUAAACCGAAAGU&CAUCAAGUAAUGCAUGCUUUUAUUAUAAAGACAACCCUAGCUUUGA  
((((((((((...&.....)))))))). -15.50  
>ENSRNOG00000020689 hs-mir-131 1933 1940

UAAAGCUAGAUAAACCGAAAGU&UGAUGAGUUAACAAGAAUAUCACUGCUUGAGGACUAGCUUUGA  
((((((((((...((((&.....))))..)))))))). -19.30  
>ENSRNOG00000020689 hs-mir-131 2145 2152  
UAAAGCUAGAUAAACCGAAAGU&UUAUGCAAUACCUCAAUUUUUCAUAUUGCAAAGAGUAGCUUUU



.(((((((.....&.....)))))))). -11.00

miRNA: mir-131

Human predicted target: ENSG00000168819  
Mouse predicted target: ENSMUSG00000049322  
Rat predicted target: ENSRNOG00000009194  
Hs Gene description: ZINC FINGER PROTEIN 292.  
[Source:SWISSPROT;Acc:O60281]

mir-131 ENSG00000168819 2000 nt UTR 2 hits 1016 1332

-----1-----1-----

>ENSG00000168819 hs-mir-131 1016 1023  
UAAAGCUAGAUAAACCGAAAGU&UGUUUCCAUUUUCUGAGAUUUAUAGAUUGGUGUAUAGCUUUAA  
((((((((.....((((.....&.....))))))....))))). -19.20

>ENSG00000168819 hs-mir-131 1332 1339  
UAAAGCUAGAUAAACCGAAAGU&UUUGGUUAUUCAGUAUUAUAGUUAGCUCUACAGUUUAGCUUUAAU  
((((((((((((((((.....&)))))).....)))))))). -18.81

mir-131 ENSMUSG00000049322 2110 nt UTR 3 hits 104 970 1282

----1-----1-----1-----

>ENSMUSG00000049322 hs-mir-131 104 111  
UAAAGCUAGAUAAACCGAAAGU&UUGUGAGCUUUUUAAUUGUUGACAUGGAUUAACCUAGCUUUAA  
(((((((((((((.....&.....)))))).....))))). -17.03

>ENSMUSG00000049322 hs-mir-131 970 977  
UAAAGCUAGAUAAACCGAAAGU&UCCCUCCACUUUCUGAGAUUUAUGGAUGGUGUAUAGCUUUAA  
((((((((.....((((.....&.....)))))).....))))). -18.93

>ENSMUSG00000049322 hs-mir-131 1282 1289  
UAAAGCUAGAUAAACCGAAAGU&AUUAUUUGAUCAUUCAGUAACUAGUUCUUCUAGCUUAGCUUUC  
(((((((((((((.....&.....))))))....))))). -11.20

mir-131 ENSRNOG00000009194 2113 nt UTR 3 hits 107 958 1265

----1-----1-----1-----

>ENSRNOG00000009194 hs-mir-131 107 114  
UAAAGCUAGAUAAACCGAAAGU&UUGUGAGCUUUUUAAUUGUUGACAUGGAUUAACCUAGCUUUAA  
(((((((((((((.....&.....)))))).....))))). -17.03

>ENSRNOG00000009194 hs-mir-131 958 965  
UAAAGCUAGAUAAACCGAAAGU&UCCCUCCCAUUUUCUGAGAUUUAUGGAUGGUGUAUAGCUUUAA  
((((((((.....((((.....&.....))))))....))))). -17.90

>ENSRNOG00000009194 hs-mir-131 1265 1272  
UAAAGCUAGAUAAACCGAAAGU&AUUAUUUGAUCAUUCAGUAACUAGUUCUUCUAGCUUAGCUUUAG  
(((((((((((((.....&.....))))))....))))). -13.00

miRNA: mir-132

Human predicted target: ENSG00000011260  
Mouse predicted target: ENSMUSG00000037621  
Rat predicted target: ENSRNOG00000002644

Hs Gene description: NM\_016001

mir-132 ENSG00000011260 2000 nt UTR 2 hits 564 1833

```

-----1-----
1-----
>ENSG00000011260 hs-mir-132 564 571
UAACAGUCUACAGCCAUGGUCGC&GAUUGAGCUUUGCAAUUGGCCUCUUCAUCACAGUUGACUGUUU
.((((((((((..((((((..(((.&.....))))))..))))).))))). -17.32
>ENSG00000011260 hs-mir-132 1833 1840
UAACAGUCUACAGCCAUGGUCGC&AGUGUCUUUCUAAAAGAACAUUUUCUGUUGAGAUGGACUGUUGC
((((((((((((((..(((.&..))))))..))))).))))). -
18.05

```

mir-132 ENSMUSG00000037621 2000 nt UTR 2 hits 521 1488

```

-----1-----
-----1-----
>ENSMUSG00000037621 hs-mir-132 521 528
UAACAGUCUACAGCCAUGGUCGC&CACUGAACUUUGCAAUUAUCUUUUUACCACAGCUGACUGUUAG
((((((((((..(((.&.....))))))..))))). -
21.00
>ENSMUSG00000037621 hs-mir-132 1488 1495
UAACAGUCUACAGCCAUGGUCGC&UAAUACAUAUAGAAAUGGCCAAAAGUAUAUUUAGGACUGUUU
.((((((((((..(((.&.....))))))..))))). -20.81

```

mir-132 ENSRNOG00000002644 2542 nt UTR 2 hits 996 1950

```

-----1-----
-----1-----
>ENSRNOG00000002644 hs-mir-132 996 1003
UAACAGUCUACAGCCAUGGUCGC&UGACACUGAACUUGGCAAUUAUCUUUACCACAGCUGACUGUUU
.((((((((((..(((.&.....))))))..))))). -19.20
>ENSRNOG00000002644 hs-mir-132 1950 1957
UAACAGUCUACAGCCAUGGUCGC&AAUACAUAUAGAAAUGGAAGAAGUAUAUUUAGGACUGUUU
.((((((((((..(((.&.....))))))..))))). -18.31

```

miRNA: mir-132

Human predicted target: ENSG00000053254

Mouse predicted target: ENSMUSG00000033713

Rat predicted target: ENSRNOG00000004709

Hs Gene description: CHECKPOINT SUPPRESSOR 1 (FORKHEAD BOX PROTEIN N3).

[Source:SWISSPROT;Acc:O00409] NM\_005197

mir-132 ENSG00000053254 3029 nt UTR 3 hits 666 1599 2775

```

-----1-----
-----1-----
>ENSG00000053254 hs-mir-132 666 673
UAACAGUCUACAGCCAUGGUCGC&CUGAAGCCCGAUGACAUCUUACGAGGUGGACGUUGGACUGUUC
.((((((((((..((((((..(((.&.....))))))..))))).))))). -21.50
>ENSG00000053254 hs-mir-132 1599 1606
UAACAGUCUACAGCCAUGGUCGC&UGUUUAAGGUUUUACCUUCUUCAGGGACAAAUCUGACUGUUGG
((((((((((((((..(((.&.....))))))..))))).))))). -
16.93

```

>ENSG00000053254 hs-mir-132 2775 2782  
UAACAGUCUACAGCCAUGGUCGC&ACCUCUCUCCUGAAAGGCAGAGGUUCAACAUUCAGGACUGUUU  
.((((((((((..((((((..((..&.....))))))..))))..))))..))))..)))).. -18.20  
mir-132 ENSMUSG00000033713 2310 nt UTR 2 hits 690 1592  
-----1-----1-----

>ENSMUSG00000033713 hs-mir-132 690 697  
UAACAGUCUACAGCCAUGGUCGC&CUUGAGCCUGGUAACAUCUCCAGGCUGAAUACCAGACUGUUC  
.((((((((((..((((((..((..&.....))))))..))))..))))..))))..)))).. -23.90  
>ENSMUSG00000033713 hs-mir-132 1592 1599  
UAACAGUCUACAGCCAUGGUCGC&UGUUUAAGGUUUAACCUUCUUCAGGGACAAAUUCUGACUGUUGG  
((((((((((..((((((..((..&.....))))))..))))..))))..))))..)))).. -  
16.93  
mir-132 ENSRNOG00000004709 3495 nt UTR 2 hits 610 1753  
-----1-----1-----

>ENSRNOG00000004709 hs-mir-132 610 617  
UAACAGUCUACAGCCAUGGUCGC&CUUGAGCCUGGUAACAUCUCCAGGUUGGACACCAGACUGUUC  
.((((((((((..((((((..((..&.....))))))..))))..))))..))))..)))).. -22.60  
>ENSRNOG00000004709 hs-mir-132 1753 1760  
UAACAGUCUACAGCCAUGGUCGC&CUUGAGCCUGGUAACAUCUCCAGGUUGGACACCAGACUGUUC  
.((((((((((..((((((..((..&.....))))))..))))..))))..))))..)))).. -22.60

miRNA: mir-132  
Human predicted target: ENSG00000088448  
Mouse predicted target: ENSMUSG00000031508  
Rat predicted target: ENSRNOG00000013618  
Hs Gene description: ANKYRIN REPEAT DOMAIN PROTEIN 10.  
[Source:SWISSPROT;Acc:Q9NXR5]

mir-132 ENSG00000088448 3097 nt UTR 2 hits 763 1753  
-----1-----1-----  
>ENSG00000088448 hs-mir-132 763 770  
UAACAGUCUACAGCCAUGGUCGC&UAUUUGUAGAAACUGUCAGGUCAAAAUAUUUAACUGACUGUUGA  
((((((((((..((((((..((..&.....))))))..))))..))))..))))..)))).. -  
14.87  
>ENSG00000088448 hs-mir-132 1753 1760  
UAACAGUCUACAGCCAUGGUCGC&UUUAAGAGAGAUGAAACUUGAUGCCAUCCGUUGGACUGUUU  
.((((((((((..((((((..((..&.....))))))..))))..))))..))))..)))).. -20.40  
mir-132 ENSMUSG00000031508 2901 nt UTR 2 hits 1283 2888  
-----1-----1-----

>ENSMUSG00000031508 hs-mir-132 1283 1290  
UAACAGUCUACAGCCAUGGUCGC&GGACAGAGAUGUUUGAGAAUUGCUUGGCACAAUGUGACUGUUGG  
((((((((((..((((((..((..&.....))))))..))))..))))..))))..)))).. -  
21.70  
>ENSMUSG00000031508 hs-mir-132 2888 2895

UAACAGUCUACAGCCAUGGUCGC&UCCAGGUGUCCUGAGCACCUCGUGUCUGCUGACCUGACUGUUGG  
((((((((((..(((((((((((..((&.....))))))..))))..))))..)))).. -  
22.90  
mir-132 ENSRNOG00000013618 3017 nt UTR 2 hits 884 931  
-----1-1-----  
-----  
>ENSRNOG00000013618 hs-mir-132 884 891  
UAACAGUCUACAGCCAUGGUCGC&CUCUUGGUUGCUUUGGUGUCUAGCAUCCCUUGAAGACUGUUA  
((((((((((..(((((((((((..((&.....))))..))))..))))..)))).. -  
21.93  
>ENSRNOG00000013618 hs-mir-132 931 938  
UAACAGUCUACAGCCAUGGUCGC&GACCCUUAUUUACAGUUUCAAGUCAGAGGAGCUGACUGUUC  
..((((((((((..(((((((((((..((&.....))))..))))..))))..)))).. -17.09

miRNA: mir-132  
Human predicted target: ENSG00000128595  
Mouse predicted target: ENSMUSG00000029767  
Rat predicted target: ENSRNOG00000006197  
Hs Gene description: CALUMENIN PRECURSOR (IEF SSP 9302).  
[Source:SWISSPROT;Acc:O43852]

mir-132 ENSG00000128595 4307 nt UTR 2 hits 82 652  
---1-----1-----  
-----  
>ENSG00000128595 hs-mir-132 82 89  
UAACAGUCUACAGCCAUGGUCGC&CUUCUGGUUUCACAUGAAUUGUUGCGCUACUGAGACUGUUA  
((((((((((..(((((((((((..((&.....))))))..))))..))))..)))).. -  
22.90  
>ENSG00000128595 hs-mir-132 652 659  
UAACAGUCUACAGCCAUGGUCGC&CAAUUGAUUUUCUUCUUUUUCCCCUGUAGGACUGACUGUUG  
((((((((((..(((((((((((..((&.....))))..))))..))))..)))).. -  
17.40  
mir-132 ENSMUSG00000029767 4164 nt UTR 2 hits 81 3261  
---1-----1-----  
-----  
>ENSMUSG00000029767 hs-mir-132 81 88  
UAACAGUCUACAGCCAUGGUCGC&UACAGCUCUGGUUUCACAUAAAAUUGCGCUACUGAGACUGUUA  
((((((((((..(((((((((((..((&.....))))))..))))..))))..)))).. -  
23.00  
>ENSMUSG00000029767 hs-mir-132 3261 3268  
UAACAGUCUACAGCCAUGGUCGC&GUUCUCCAGAGGUGAGAGUGCCACUUAGAAACUGUGACUGUUA  
((((((((((..(((((((((((..((&.....))))..))))..))))..)))).. -  
21.30  
mir-132 ENSRNOG00000006197 4094 nt UTR 2 hits 88 3198

-----1-----  
-----1-----  
-----

>ENSRNOG00000006197 hs-mir-132 88 95  
UAACAGUCUACAGCCAUGGUCGC&GGUCUGGUUUCACAUAAAAUUGUUUGCGCUACUGAGACUGUUAU  
(((((((((.((((...(((((.(((&.....)))))))))))))). -  
23.00

>ENSRNOG00000006197 hs-mir-132 3198 3205  
UAACAGUCUACAGCCAUGGUCGC&GUUCUCCAGAGAUGAAGGUAUCACUUAGAAACUGUGACUGUUGA  
(((((((((.(((((.(((&.....)))).)).).....)))))))).. -  
19.41

miRNA: mir-132  
Human predicted target: ENSG00000160392  
Mouse predicted target: ENSMUSG00000049643  
Rat predicted target: ENSRNOG00000018408

mir-132 ENSG00000160392 2816 nt UTR 2 hits 621 853  
-----1-----1-----

>ENSG00000160392 hs-mir-132 621 628  
UAACAGUCUACAGCCAUGGUCGC&GGCCCCUCGUCGGCGGUGGCGUCGAGCCUGUUGAGACUGUUAG  
(((((((((.(((((.(((&.....))))))))).....))))).. -  
29.19

>ENSG00000160392 hs-mir-132 853 860  
UAACAGUCUACAGCCAUGGUCGC&AAUCAUUUCCCCACUCCUUCAGGGUGAGUUGCAGGACUGUUU  
(((((((((.(((((.(((&.....)))).)))))..))))).. -19.70  
mir-132 ENSMUSG00000049643 2000 nt UTR 2 hits 614 797  
-----1-----1-----

>ENSMUSG00000049643 hs-mir-132 614 621  
UAACAGUCUACAGCCAUGGUCGC&GGCCCCUCGUCGACGGUGGCGGCGAACCUGUAAAGACUGUUAG  
(((((((((.(((((.(((&.....))))))))).....))))).. -  
29.60

>ENSMUSG00000049643 hs-mir-132 797 804  
UAACAGUCUACAGCCAUGGUCGC&GUGACUGCUGUUUUAAUAUAUUUUUGUGACUUUGAGACUGUUU  
(((((((((.(((((.(((&))))))))).....))))).. -23.70  
mir-132 ENSRNOG00000018408 2000 nt UTR 2 hits 613 797  
-----1-----1-----

>ENSRNOG00000018408 hs-mir-132 613 620  
UAACAGUCUACAGCCAUGGUCGC&GGCCCCUCGUCGACGGUGGCGGCGAACCUGUAAAGACUGUUAG  
(((((((((.(((((.(((&.....))))))))).....))))).. -  
29.60

>ENSRNOG00000018408 hs-mir-132 797 804  
UAACAGUCUACAGCCAUGGUCGC&AUGACUGCUGUUUUAAUAUAUUUUUGUGACUUUCAGACUGUUU  
(((((((((.(((((.(((&.)))))))))).....))))).. -21.50

miRNA: mir-133b

Human predicted target: ENSG00000010610

Mouse predicted target: ENSMUSG00000023274

Rat predicted target: ENSRNOG00000016294

Hs Gene description: T-CELL SURFACE GLYCOPROTEIN CD4 PRECURSOR (T-CELL SURFACE ANTIGEN T4/LEU-3). [Source:SWISSPROT;Acc:P01730] NM\_000616

mir-133b ENSG00000010610 3479 nt UTR 3 hits 391 520 3256

-----1-----1-----  
-----1-----

>ENSG00000010610 hs-mir-133b 391 398  
UUGGUCCCUUCAACCAGCUA&GAGCAUGGGACUGUUCUUUACAAGACAGGACCCUGGGACCAC  
.((((((((((..((..(((..&..))))..))))..))))..))))..)))).. -21.10

>ENSG00000010610 hs-mir-133b 520 527  
UUGGUCCCUUCAACCAGCUA&UGCCCAUGCUGCCCGCUUCUCACCCUAUGUGGGUGGGACCAC  
.((((((((((..(((..&..))))..))))..))))..))))..)))).. -22.75

>ENSG00000010610 hs-mir-133b 3256 3263  
UUGGUCCCUUCAACCAGCUA&GGGCUCACUGAAGCUCAGCAUCACGCACUAAAACUGGGACCAU  
.((((((((((..(((..&..))))..))))..))))..))))..)))).. -23.44

mir-133b ENSMUSG00000023274 3553 nt UTR 2 hits 58 378

--1-----1-----  
-----

>ENSMUSG00000023274 hs-mir-133b 58 65  
UUGGUCCCUUCAACCAGCUA&CACCACUGCGUCCUGUCUCAUCGCCCGAGGCCUGGGGACCAGA  
((((((((((..(((..&..))))..))))..))))..))))..)))).. -23.10

>ENSMUSG00000023274 hs-mir-133b 378 385  
UUGGUCCCUUCAACCAGCUA&CUGGAAUACACAGCACAGUUUACGAGAGGGCUCUGGGACCAAG  
((((((((((..(((..&..))))..))))..))))..))))..)))).. -21.20

mir-133b ENSRNOG00000016294 2325 nt UTR 2 hits 365 914

-----1-----1-----  
-----

>ENSRNOG00000016294 hs-mir-133b 365 372  
UUGGUCCCUUCAACCAGCUA&CUGGAAACACACAGCACAGUUCAGGAGAGACCUCUGGGACCAGG  
((((((((((..(((..&..))))..))))..))))..))))..)))).. -21.20

>ENSRNOG00000016294 hs-mir-133b 914 921  
UUGGUCCCUUCAACCAGCUA&AAUGGAACGUGGGUUGAAUGAACAAGUGCUGAUGUGGGACCAAC  
((((((((((..(((..&..))))..))))..))))..))))..)))).. -25.86

miRNA: mir-133b

Human predicted target: ENSG00000117411

Mouse predicted target: ENSMUSG00000028541

Rat predicted target: ENSRNOG00000019609

Hs Gene description: BETA-1,4-GALACTOSYLTRANSFERASE 2 (EC 2.4.1.-) (BETA-1,4-GALTASE 2) (BETA4GAL-T2) (B4GAL-T2) (UDP-GALACTOSE:BETA-N-ACETYLGLUCOSAMINE BETA- 1,4-GALACTOSYLTRANSFERASE 2) (UDP-GAL:BETA-GLCNAc BETA-1,4- GALACTOSYLTRANSFERASE 2) [INCLUDES: LACTOSE SYNTHASE A PROTEIN (EC 2.4.1.22); N-ACETYLLACTOSAMINE SYNTHASE (EC 2.4.1.90) (NAL

SYNTHETASE); BETA-N-ACETYLGLUCOSAMINYL-GLYCOPEPTIDE BETA-1,4-  
GALACTOSYLTRANSFERASE (EC 2.4.1.38); BETA-N-ACETYLGLUCOSAMINYL- GLYCOLIPID  
BETA-1,4-GALACTOSYLTRANSFERASE (EC 2.4.1.-)].

[Source:SWISSPROT;Acc:O60909] NM\_030587

mir-133b ENSG00000117411 2719 nt UTR 3 hits 526 1278 2074

-----1-----1-----

-----1-----

>ENSG00000117411 hs-mir-133b 526 533  
UUGGUCCCUUCAACCAGCUA&UUGGUGCGCCCCUGCUGAGGAGCAGCCCAGGAGGGGACCAGA  
((((((((((((((..(((((&.....))))).).....))))))))). -29.32

>ENSG00000117411 hs-mir-133b 1278 1285  
UUGGUCCCUUCAACCAGCUA&GACUGGCAGUUCGGAAACGGGCAAUCCAGCCGAGGGGACCAGC  
((((((((((((((...(((((&..))))).).....))))))))). -24.95

>ENSG00000117411 hs-mir-133b 2074 2081  
UUGGUCCCUUCAACCAGCUA&GAGCCUCUCAGCUUCCUUCUGUGCACCUUCUGCAGGGACCAGG  
((((((((((.....&.....))))))))). -18.50

mir-133b ENSMUSG00000028541 2721 nt UTR 3 hits 528 558 1992

-----1-----1-----

-----1-----

>ENSMUSG00000028541 hs-mir-133b 528 535  
UUGGUCCCUUCAACCAGCUA&UUGGUGAGCCACCUACUGAGGAGCACCCCAGGAGGGGACCAGA  
((((((((((((((..(((((&))))).).....))))))))). -27.73

>ENSMUSG00000028541 hs-mir-133b 558 565  
UUGGUCCCUUCAACCAGCUA&AGGAGGGGACCAGAAGGGGUGCUGUGUUGUUCUGGGACCAU  
((((((((((((((...(((((&.....))))).).....))))))))). -27.20

>ENSMUSG00000028541 hs-mir-133b 1992 1999  
UUGGUCCCUUCAACCAGCUA&GGAGGUCCUCAGGUCCCUUCAUGCACAUGCUUUCAGGGACCAGA  
((((((((((((((.....(((((&.....))))).).....))))))))). -18.80

mir-133b ENSRNOG00000019609 2722 nt UTR 3 hits 529 1304 1975

-----1-----1-----

-----1-----

>ENSRNOG00000019609 hs-mir-133b 529 536  
UUGGUCCCUUCAACCAGCUA&UUGGCAAGCCACCUACUGAGGAGCGCCCCAGGAGGGGACCAGA  
((((((((((((((((.....(((((&.....))))).).....))))))))). -29.20

>ENSRNOG00000019609 hs-mir-133b 1304 1311  
UUGGUCCCUUCAACCAGCUA&GACCUGCGGGCGGUCCGGCCUGUAGGUCUGAUCAGGGGACCAC  
((((((((((((((((((((((((((((((..(((((&.....))))).).....))))))))))))). -28.10

>ENSRNOG00000019609 hs-mir-133b 1975 1982  
UUGGUCCCUUCAACCAGCUA&GGAGGUCCUCAAGUCCCUUCAUGCACACGCUUUCAGGGACCAGA  
((((((((((((((((.....(((((&.....))))).).....))))))))). -19.10

miRNA: mir-133b  
Human predicted target: ENSG00000124160  
Mouse predicted target: ENSMUSG00000039804  
Rat predicted target: ENSRNOG00000017824  
Rat predicted target: ENSRNOG00000018335

Hs Gene description: NUCLEAR RECEPTOR COACTIVATOR 5 (NCOA-5) (COACTIVATOR INDEPENDENT OF AF-2) (CIA). [Source:SWISSPROT;Acc:Q9HCD5] NM\_020967

mir-133b ENSG00000124160 2000 nt UTR 2 hits 912 1814

-----1-----1-

>ENSG00000124160 hs-mir-133b 912 919  
UUGGUCCCCUUAACCAGCUA&AGACUCUUAUUCUGUUUCCUGAGCAGCAGGAGGUAGGGACCAC  
.((((((((((.....((.&.....)))))).....))))). -23.80

>ENSG00000124160 hs-mir-133b 1814 1821  
UUGGUCCCCUUAACCAGCUA&UGGUGAAGUGGGUGGCACAGGCCUCCAGUGAGUUAGGGACCAAC  
((((((((((.....((.&.....)))))).....))))). -22.94

mir-133b ENSMUSG00000039804 3224 nt UTR 2 hits 825 3166

-----1-----1--

>ENSMUSG00000039804 hs-mir-133b 825 832  
UUGGUCCCCUUAACCAGCUA&AGACUCUUGUUCUGUUUUCUGAUGAGCAGGAGACGGGGACCAC  
.((((((((((.....((.&.....)))))).....))))). -27.20

>ENSMUSG00000039804 hs-mir-133b 3166 3173  
UUGGUCCCCUUAACCAGCUA&AGGCAGCUGGGUCCCCAAGCAGGACUUGCAGAAUGGGGACCAAG  
((((((((((.....((.&.....)))))).....))))). -30.95

mir-133b ENSRNOG00000017824 3094 nt UTR 2 hits 744 3022

-----1-----1---

>ENSRNOG00000017824 hs-mir-133b 744 751  
UUGGUCCCCUUAACCAGCUA&UAGACUCGUGUACUGUUUCUGAUGAGCAGGAGACAGGGACCAU  
.((((((((((.....((.&.....)))))).....))))). -23.50

>ENSRNOG00000017824 hs-mir-133b 3022 3029  
UUGGUCCCCUUAACCAGCUA&GGGGGCGUGGGUCCCCAGGCAGGACUUGCAGAGUGGGGACCAAG  
((((((((((.....((.&.....)))))).....))))). -30.75

mir-133b ENSRNOG00000018335 3090 nt UTR 2 hits 744 1893

-----1-----1-----

>ENSRNOG00000018335 hs-mir-133b 744 751  
UUGGUCCCCUUAACCAGCUA&UAGACUCGUGUACUGUUUCUGAUGAGCAGGAGACAGGGACCAU  
.((((((((((.....((.&.....)))))).....))))). -23.50

>ENSRNOG00000018335 hs-mir-133b 1893 1900  
UUGGUCCCCUUAACCAGCUA&UAGACUCGUGUACUGUUUCUGAUGAGCAGGAGACAGGGACCAU  
.((((((((((.....((.&.....)))))).....))))). -23.50

miRNA: mir-133b

Human predicted target: ENSG00000152076

Mouse predicted target: ENSMUSG00000041617

Rat predicted target: ENSRNOG00000001876

mir-133b ENSG00000152076 4334 nt UTR 3 hits 40 1873 2565

-1-----1-----1-----

1-----1-----1-----



```

>ENSG00000152076 hs-mir-133b      40      47
UUGGUCCCCUUAACCAGCUA&ACCGGGAGGGGAUUAAGGGGGGGUGGGCAGGACCAGGGACCAGU
((((((((((..((..((..((..&.....)))))).....)))))))). -25.00
>ENSG00000152076 hs-mir-133b    1873    1880
UUGGUCCCCUUAACCAGCUA&GCCCCAGGCAGUCCCGGAGGAAGCUAGCUUCCAGGGACCAAG
((((((((((..((..((..((..&.....)))))).....)))))).....)))))))). -23.10
>ENSG00000152076 hs-mir-133b    2565    2572
UUGGUCCCCUUAACCAGCUA&UAUCCACAGCUCACUGCUGACUCUCCUUCACCCAGGGACCAAG
((((((((((.....((..((..((..&.....)))))).....)))))).....)))))))). -20.20
mir-133b  ENSMUSG00000041617  2000 nt UTR      2 hits 221 1187
-----1-----1-----

```

```

>ENSMUSG00000041617 hs-mir-133b  221     228
UUGGUCCCCUUAACCAGCUA&GUCCUGCAGAGACCCUGGCUAACUUCACCUACAGGGGACCAAU
((((((((((.....((..((..((..&.....)))))).....)))))).....)))))))). -24.37
>ENSMUSG00000041617 hs-mir-133b  1187    1194
UUGGUCCCCUUAACCAGCUA&GGGGGUGUGGACCUCACGACUAACUUCUUCUCAGGGACCAGG
((((((((((..((..((..((..&.....)))))).....)))))).....)))))))). -19.31
mir-133b  ENSRNOG00000001876  2394 nt UTR      3 hits 76 221 1171
---1---1-----1-----

```

```

>ENSRNOG00000001876 hs-mir-133b   76      83
UUGGUCCCCUUAACCAGCUA&GGGCCCAAGCUCACCCUUGAUAGGUUCCACCCUGGGACCAGC
((((((((((.....((..((..((..&.....)))))).....)))))).....)))))))). -20.80
>ENSRNOG00000001876 hs-mir-133b   221     228
UUGGUCCCCUUAACCAGCUA&GUCCUGCAGAGACCCUGGCUAACCUCACCUACAGGGGACCAGU
((((((((((.....((..((..((..&.....)))))).....)))))).....)))))))). -24.07
>ENSRNOG00000001876 hs-mir-133b   1171    1178
UUGGUCCCCUUAACCAGCUA&GCGGGUGUGGGCCUCACAGCUAACUUCUUCUCAGGGACCAGG
((((((((((..((..((..((..&.....)))))).....)))))).....)))))))). -21.55

```

```

miRNA: mir-133b
Human predicted target: ENSG00000171877
Mouse predicted target: ENSMUSG00000027238
Rat predicted target: ENSRNOG00000016189
Hs Gene description: NM_032892

```

```

mir-133b  ENSG00000171877      2000 nt UTR      2 hits 677 1162
-----1-----1-----
>ENSG00000171877 hs-mir-133b     677     684
UUGGUCCCCUUAACCAGCUA&UGUUUUUUAUCAAUCUGAGCAGAGUGGGCAUCUGAAGGGACCAC
.((((((((((..((..((..((..&.....)))))).....)))))).....)))))))). -24.30
>ENSG00000171877 hs-mir-133b    1162    1169
UUGGUCCCCUUAACCAGCUA&CAGAAAUAAGAAUCCAAAGAUCAACAGCCUAGAAGGGACCAGG
((((((((((..((..((..((..&.....)))))).....)))))).....)))))))). -22.20
mir-133b  ENSMUSG00000027238  4421 nt UTR      2 hits 360 703

```

-----1-----1-----  
-----  
-----

>ENSMUSG00000027238 hs-mir-133b 360 367  
UUGGUCCCUUCAACCAGCUA&GAGGAAGGCAUCGAGAAGGAGCAGCGGCCUUGGAAGGGACCAGG  
(((((((((.(((((((&.....))))))..)))))). -26.80  
>ENSMUSG00000027238 hs-mir-133b 703 710  
UUGGUCCCUUCAACCAGCUA&GACUCACGUAAAGGACAGUCAAGGGGCACACUCCUGGGACCAGA  
((((((((.....(((&.....)))).....)))))). -20.03  
mir-133b ENSRNOG00000016189 2568 nt UTR 2 hits 1045 1412

-----1-----1-----  
-----

>ENSRNOG00000016189 hs-mir-133b 1045 1052  
UUGGUCCCUUCAACCAGCUA&GAGGAAGGCAUCGGGAAGGAGCAGCAUUGGAAGGGACCAGG  
(((((((((.((((((.....(((&.....))))..)))))). -24.80  
>ENSRNOG00000016189 hs-mir-133b 1412 1419  
UUGGUCCCUUCAACCAGCUA&UCACUCAUAUAAAGGACAGUCAAGGGGUAUCUCCAGGGACCAGA  
((((((((.....(((&.....)))).....)))))). -20.40

miRNA: mir-133b  
Human predicted target: ENSG00000173548  
Mouse predicted target: ENSMUSG00000032733  
Rat predicted target: ENSRNOG00000017382  
Hs Gene description: NM\_153271  
mir-133b ENSG00000173548 3422 nt UTR 5 hits 508 878 2102 2512 2799

-----1-----1-----1-----  
-----1-----1-----1-----

>ENSG00000173548 hs-mir-133b 508 515  
UUGGUCCCUUCAACCAGCUA&AUGUUUAAGUGAGGGAUUUCUGGAAGCUCAUAGAAGGGACCAC  
(((((((((.((((((.....(((&.....)))).....)))))). -23.50  
>ENSG00000173548 hs-mir-133b 878 885  
UUGGUCCCUUCAACCAGCUA&CCUCCACUUUUGGGCCCUCAGCUUAUCUCGGGCAGGGGACCAU  
(((((((((.((((((.....(((&.....)))).....)))))). -26.20  
>ENSG00000173548 hs-mir-133b 2102 2109  
UUGGUCCCUUCAACCAGCUA&AGGGUCAAGGCCGUCAGGGAAGGUUGGCUAGACCAGGGACCAGG  
(((((((((.((((((.....(((&.....)))).....)))))). -25.70  
>ENSG00000173548 hs-mir-133b 2512 2519  
UUGGUCCCUUCAACCAGCUA&GAACAGUGUUGUCCUCUGUGGCCUUCUUGAGAGGGGACCAC  
(((((((((.((((((.....&.....))))..)))))). -24.30  
>ENSG00000173548 hs-mir-133b 2799 2806  
UUGGUCCCUUCAACCAGCUA&CUGGGGUAGCUAAGCCCUUUCAGCAGGAGAUUGGGGGACCAGU  
(((((((((.((((((.....(((&.....)))).....)))))). -28.00  
mir-133b ENSMUSG00000032733 2003 nt UTR 2 hits 657 806

-----1-----1-----  
-----

>ENSMUSG00000032733 hs-mir-133b 657 664  
UUGGUCCCUUCAACCAGCUA&CUCUCUGUGGGUUUUGCUCUGUAUGACAGAGGGGAGGGACCAU

.(((((((((((((((((((((..&.....)))))).....)))))))). -23.52  
>ENSMUSG00000032733 hs-mir-133b 806 813

UUGGUCCCCUUAACCAGCUA&AGGGACACCUCUCCCCACUUUCCUUGAUUAGGGGACCAU  
.((((((((((((((((((.....&.....)))))).....)))))))). -24.00  
mir-133b ENSRNOG00000017382 3205 nt UTR 2 hits 779 1620

-----1-----1-----  
-----1-----1-----

>ENSRNOG00000017382 hs-mir-133b 779 786  
UUGGUCCCCUUAACCAGCUA&GGUUGAGGGACCCUGCCCUACUUUCCUUGAUUAGGGGACCAU

.((((((((((((((((((.....&)))))).....)))))))). -27.92  
>ENSRNOG00000017382 hs-mir-133b 1620 1627

UUGGUCCCCUUAACCAGCUA&GGUUGAGGGACCCUGCCCUACUUUCCUUGAUUAGGGGACCAU  
.((((((((((((((((((.....&)))))).....)))))))). -27.92

miRNA: mir-133b

Human predicted target: ENSG00000182067  
Mouse predicted target: ENSMUSG00000029071  
Rat predicted target: ENSRNOG00000019423

Hs Gene description: SEGMENT POLARITY PROTEIN DISHEVELLED HOMOLOG DVL-1  
(DISHEVELLED-1) (DSH HOMOLOG 1). [Source:SWISSPROT;Acc:O14640]

mir-133b ENSG00000182067 2868 nt UTR 2 hits 597 2595  
-----1-----

-----1-----  
>ENSG00000182067 hs-mir-133b 597 604

UUGGUCCCCUUAACCAGCUA&ACAUCUGCCACCGUGUCCAGCCAGGGCAGGGAGGGACCAU  
.((((((((((((((((((...((..&.....)))))).....)))))))). -24.60

>ENSG00000182067 hs-mir-133b 2595 2602  
UUGGUCCCCUUAACCAGCUA&AGACCUGCGGCGGAAGCAGCGUGUGCUUCGCUCCGGGGACCAC

.((((((((((((((((((...((..&.....)))))).....)))))))). -24.50  
mir-133b ENSMUSG00000029071 2860 nt UTR 2 hits 287 2734

-----1-----1-----  
-----1-----1-----

>ENSMUSG00000029071 hs-mir-133b 287 294  
UUGGUCCCCUUAACCAGCUA&ACAUCUCUGACUUUAAGUCCUCAGCACAGAUCUCAGGGACCAC

.((((((((((((((((((.....((..&.....)))))).....)))))))). -19.11  
>ENSMUSG00000029071 hs-mir-133b 2734 2741

UUGGUCCCCUUAACCAGCUA&GGGCCUGCGAGGUAAGCAGGCUGUGCUUUUCUCUGGGGACCAC  
.((((((((((((((((((.....(((((..&.....)))))).....)))))))). -25.64

mir-133b ENSRNOG00000019423 2869 nt UTR 2 hits 291 2714  
-----1-----

-----1-----  
-----1-----

>ENSRNOG00000019423 hs-mir-133b 291 298  
UUGGUCCCCUUAACCAGCUA&ACAUCUCUGUCUUUAAGUCCUCAGCACAGAUCUCAGGGACCAC

.((((((((((((((((((.....((..&.....)))))).....)))))))). -19.11  
>ENSRNOG00000019423 hs-mir-133b 2714 2721

UUGGUCCCCUUAACCAGCUA&GGGCCUGCGAGGUAAGCAGGUUGUGCUUUUUCUGGGGACCAC  
.((((((((((((((((((...(((((..&.....)))))).....)))))))). -29.12

miRNA: mir-133b

Human predicted target: ENSG00000185049

Mouse predicted target: ENSMUSG00000029111

Rat predicted target: ENSRNOG00000015474

Hs Gene description: WOLF-HIRSCHHORN SYNDROME CANDIDATE 2 PROTEIN; WHSC2 PROTEIN. [Source:RefSeq;Acc:NM\_005663] NM\_005663

mir-133b ENSG00000185049 2596 nt UTR 2 hits 385 783

-----1-----1-----

>ENSG00000185049 hs-mir-133b 385 392  
UUGGUCCCCUUAACCAGCUA&CGCUGGGGCAGUGCCUCCUACCCCCAGGGUUGAGGGGACCAAG  
(((((((((((...(((((&..)))))).....)))))))). -30.65

>ENSG00000185049 hs-mir-133b 783 790  
UUGGUCCCCUUAACCAGCUA&GGGGUACUCCUUGACUUAUUGGCUGUGGGCCUGGGGACCAC  
(((((((((((...(((((&.....)))))).....)))))). -29.30

mir-133b ENSMUSG00000029111 2803 nt UTR 2 hits 369 2003

-----1-----

>ENSMUSG00000029111 hs-mir-133b 369 376  
UUGGUCCCCUUAACCAGCUA&CUCUCCUUGUGCAUGCCUCCUCAUGAGGUUGAGGGGACCAAA  
(((((((((((...(((((&.....)))))).....)))))). -30.00

>ENSMUSG00000029111 hs-mir-133b 2003 2010  
UUGGUCCCCUUAACCAGCUA&CUAUGUGGCCUAUCACUACAUCAGCCUUUCAAUUGGGACCAU  
(((((((((((...(((((&.....)))))).....)))))). -19.21

mir-133b ENSRNOG00000015474 2783 nt UTR 2 hits 363 1835

-----1-----

>ENSRNOG00000015474 hs-mir-133b 363 370  
UUGGUCCCCUUAACCAGCUA&CUCUGCUUGUGCAUGCCUCCUCAUGAGGUUGAGGGGACCAAA  
(((((((((((...(((((&.....)))))).....)))))). -30.00

>ENSRNOG00000015474 hs-mir-133b 1835 1842  
UUGGUCCCCUUAACCAGCUA&CUGAUGCUUUAAGGACGGGCCACCAGGGAGCCUGGGGACCAU  
(((((((((((...(((((&.....)))))).....)))))). -23.60

miRNA: mir-133

Human predicted target: ENSG00000010610

Mouse predicted target: ENSMUSG00000023274

Rat predicted target: ENSRNOG00000016294

Hs Gene description: T-CELL SURFACE GLYCOPROTEIN CD4 PRECURSOR (T-CELL SURFACE ANTIGEN T4/LEU-3). [Source:SWISSPROT;Acc:P01730] NM\_000616

mir-133 ENSG00000010610 3479 nt UTR 3 hits 391 520 3256

-----1-----1-----

>ENSG00000010610 hs-mir-133 391 398  
UUGGUCCCCUUAACCAGCUGU&GAGCAUGGGACUGUUCUUUACAAGACAGGACCCUGGGACCAC



>ENSMUSG00000023969 hs-mir-133 150 157  
UUGGUCCCCUUAACCAGCUGU&UGGCAAGCAGCAGUCCUGGGAUCACACAUUUGCAAGGGACCAC  
.((((((((((...(((((((((((&.....))))))..))))).))))). -23.60  
>ENSMUSG00000023969 hs-mir-133 798 805  
UUGGUCCCCUUAACCAGCUGU&GAAAGCACAGCCAGACUGGUUAGGGAAUAAAGAACGGGACCAGC  
((((((((((...(((((((((((&.....))))))..))))).))))). -29.70  
mir-133 ENSRNOG00000016849 2000 nt UTR 2 hits 664 1327  
-----1-----1-----

>ENSRNOG00000016849 hs-mir-133 664 671  
UUGGUCCCCUUAACCAGCUGU&CUCUGGCAAGCAGUAGUCCUGGGAUCACAGUUGAAGGGACCAC  
.((((((((((...(((((((((((&.....))))))..))))).))))). -26.31  
>ENSRNOG00000016849 hs-mir-133 1327 1334  
UUGGUCCCCUUAACCAGCUGU&UGGUCAGGGAGUGCGGACCAGCUCCUGAGUCAGCUGGGACCAAC  
((((((((((...(((((((((((&.....))))))..))))).))))). -24.10

miRNA: mir-133

Human predicted target: ENSG00000117411

Mouse predicted target: ENSMUSG00000028541

Rat predicted target: ENSRNOG00000019609

Hs Gene description: BETA-1,4-GALACTOSYLTRANSFERASE 2 (EC 2.4.1.-) (BETA-1,4-GALTASE 2) (BETA4GAL-T2) (B4GAL-T2) (UDP-GALACTOSE:BETA-N-ACETYLGLUCOSAMINE BETA- 1,4-GALACTOSYLTRANSFERASE 2) (UDP-GAL:BETA-GLCNAC BETA-1,4- GALACTOSYLTRANSFERASE 2) [INCLUDES: LACTOSE SYNTHASE A PROTEIN (EC 2.4.1.22); N-ACETYLLACTOSAMINE SYNTHASE (EC 2.4.1.90) (NAL SYNTHETASE); BETA-N-ACETYLGLUCOSAMINYL-GLYCOPEPTIDE BETA-1,4-GALACTOSYLTRANSFERASE (EC 2.4.1.38); BETA-N-ACETYLGLUCOSAMINYL- GLYCOLIPID BETA-1,4-GALACTOSYLTRANSFERASE (EC 2.4.1.-)].

[Source:SWISSPROT;Acc:O60909] NM\_030587

mir-133 ENSG00000117411 2719 nt UTR 3 hits 526 1278 2074  
-----1-----1-----

>ENSG00000117411 hs-mir-133 526 533  
UUGGUCCCCUUAACCAGCUGU&UUGGUGCGCCCCUGCUGAGGAGCAGCCCCAGGAGGGGACCAGA  
((((((((((...(((((((((((&.....))))))..))))).))))). -32.70  
>ENSG00000117411 hs-mir-133 1278 1285  
UUGGUCCCCUUAACCAGCUGU&GACUGGCAGUUCGGAACGGGCAAUCCAGCCGAGGGGACCAGC  
((((((((((...(((((((((((&.....))))))..))))).))))). -26.65  
>ENSG00000117411 hs-mir-133 2074 2081  
UUGGUCCCCUUAACCAGCUGU&GAGCCUCUCAGCUCCUUCUGUGCACCUUCUGCAGGGACCAGG  
((((((((((...(((((((((((&.....))))))..))))).))))). -20.51  
mir-133 ENSMUSG00000028541 2721 nt UTR 3 hits 528 558 1992  
-----1-----1-----

>ENSMUSG00000028541 hs-mir-133 528 535  
UUGGUCCCCUUAACCAGCUGU&UUGGUGAGCCACCUACUGAGGAGCACCACCAGGAGGGGACCAGA  
((((((((((...(((((((((((&.....))))))..))))).))))). -27.70

>ENSMUSG00000028541 hs-mir-133 558 565  
UUGGUCCCCUUAACCAGCUGU&AGGAGGGGACCAGAAGGGGUGCUGUGUUGUUUCCUGGGACCAU  
.((((((((((...((((((&.....)))))).....)))))). -27.20  
>ENSMUSG00000028541 hs-mir-133 1992 1999  
UUGGUCCCCUUAACCAGCUGU&GGAGGUCCUCAGGUCCCUUCAUGCACAUGCUUUCAGGGACCAGA  
((((((((((...((((((&.....)))))).....)))))). -20.00  
mir-133 ENSRNOG00000019609 2722 nt UTR 3 hits 529 1304 1975  
-----1-----1-----  
-----1-----  
>ENSRNOG00000019609 hs-mir-133 529 536  
UUGGUCCCCUUAACCAGCUGU&UUGGCAAGCCACCUACUGAGGAGCGCCCCAGGAGGGGACCAGA  
((((((((((...((((((&.....)))))).....)))))). -28.80  
>ENSRNOG00000019609 hs-mir-133 1304 1311  
UUGGUCCCCUUAACCAGCUGU&GACCUGCGGGCGGUCCGCCUGUAGGUCUGAUCAGGGGACCAC  
.((((((((((...((((((&.....)))))).....)))))). -29.30  
>ENSRNOG00000019609 hs-mir-133 1975 1982  
UUGGUCCCCUUAACCAGCUGU&GGAGGUCCUCAAGUCCCUUCAUGCACACGCUUUCAGGGACCAGA  
((((((((((...((((((&.....)))))).....)))))). -20.00

miRNA: mir-133

Human predicted target: ENSG00000124160  
Mouse predicted target: ENSMUSG00000039804  
Rat predicted target: ENSRNOG00000017824  
Rat predicted target: ENSRNOG00000018335  
Hs Gene description: NUCLEAR RECEPTOR COACTIVATOR 5 (NCOA-5) (COACTIVATOR INDEPENDENT OF AF-2) (CIA). [Source:SWISSPROT;Acc:Q9HCD5] NM\_020967  
mir-133 ENSG00000124160 2000 nt UTR 2 hits 912 1814  
-----1-----1-----  
-----

>ENSG00000124160 hs-mir-133 912 919  
UUGGUCCCCUUAACCAGCUGU&AGACUCUUAUUCUGUUUCCUGAGCAGCAGGAGGUAGGGACCAC  
.((((((((((...((((((&.....)))))).....)))))). -27.30  
>ENSG00000124160 hs-mir-133 1814 1821  
UUGGUCCCCUUAACCAGCUGU&UGGUGAAGUGGGUGGCACAGGCCUCCAGUGAGUUAGGGACCAAC  
((((((((((...((((((&.....)))))).....)))))). -23.04  
mir-133 ENSMUSG00000039804 3224 nt UTR 2 hits 825 3166  
-----1-----1-----

>ENSMUSG00000039804 hs-mir-133 825 832  
UUGGUCCCCUUAACCAGCUGU&AGACUCUUGUUCUGUUUUCUGAUGAGCAGGAGACGGGGACCAC  
.((((((((((...((((((&.....)))))).....)))))). -27.20  
>ENSMUSG00000039804 hs-mir-133 3166 3173  
UUGGUCCCCUUAACCAGCUGU&AGGCAGCUGGGUCCCAAGCAGGACUUGCAGAAUGGGGACCAAG  
((((((((((...((((((&.....)))))).....)))))). -34.95  
mir-133 ENSRNOG00000017824 3094 nt UTR 2 hits 744 3022  
-----1-----1-----  
-----1-----

>ENSRNOG00000017824 hs-mir-133 744 751  
UUGGUCCCCUUAACCAGCUGU&UAGACUCGUGUACUGUUUCUGAUGAGCAGGAGACAGGGACCAU  
.((((((((((..((..((..((..&.....)))))))).)))).)))). -23.50  
>ENSRNOG00000017824 hs-mir-133 3022 3029  
UUGGUCCCCUUAACCAGCUGU&GGGGGGCUGGGUCCCCAGGCAGGACUUGCAGAGUGGGGACCAAG  
((((((((((((((..((((((&..)))))))).)))).)))).)))). -30.45  
mir-133 ENSRNOG00000018335 3090 nt UTR 2 hits 744 1893

-----1-----  
-1-----  
>ENSRNOG00000018335 hs-mir-133 744 751  
UUGGUCCCCUUAACCAGCUGU&UAGACUCGUGUACUGUUUCUGAUGAGCAGGAGACAGGGACCAU  
.((((((((((..((..((..((..&.....)))))))).)))).)))). -23.50  
>ENSRNOG00000018335 hs-mir-133 1893 1900  
UUGGUCCCCUUAACCAGCUGU&UAGACUCGUGUACUGUUUCUGAUGAGCAGGAGACAGGGACCAU  
.((((((((((..((..((..((..&.....)))))))).)))).)))). -23.50

miRNA: mir-133

Human predicted target: ENSG00000152076  
Mouse predicted target: ENSMUSG00000041617  
Rat predicted target: ENSRNOG00000001876

mir-133 ENSG00000152076 4334 nt UTR 3 hits 40 1873 2565

-1-----  
1-----1-----  
-----  
>ENSG00000152076 hs-mir-133 40 47  
UUGGUCCCCUUAACCAGCUGU&ACCGGGAGGGGAUUAAGGGGGGUGGGCAGGACCAGGGACCAGU  
((((((((((..((..((..((..&.....)))))))).)))).)))). -24.70  
>ENSG00000152076 hs-mir-133 1873 1880  
UUGGUCCCCUUAACCAGCUGU&GCCCCAGGCAGUCCCGGAGGAAGCUAGCUUCCAGGGACCAAG  
((((((((((((((..((((((&.....)))))))).)))).)))).)))). -27.10  
>ENSG00000152076 hs-mir-133 2565 2572  
UUGGUCCCCUUAACCAGCUGU&UAUCCACAGCUCACUGCUGACUCUCCUUCACCCAGGGACCAAG  
((((((((((((((..((..((((((&.....)))))))).)))).)))).)))). -22.49  
mir-133 ENSMUSG00000041617 2000 nt UTR 2 hits 221 1187

-----1-----1-----  
-----  
>ENSMUSG00000041617 hs-mir-133 221 228  
UUGGUCCCCUUAACCAGCUGU&GUCCUGCAGAGACCCUGGCUAACUUCACCUACAGGGACCAAU  
((((((((((((((..((((((&.....)))))))).)))).)))).)))). -25.67  
>ENSMUSG00000041617 hs-mir-133 1187 1194  
UUGGUCCCCUUAACCAGCUGU&GGGGGUGUGGACCUCACGACUAACUCCUUCUCAGGGACCAAG  
((((((((((((((..((((((&..)))))))).)))).)))).)))). -19.31  
mir-133 ENSRNOG00000001876 2394 nt UTR 3 hits 76 221 1171

---1---1-----1-----  
-----  
>ENSRNOG00000001876 hs-mir-133 76 83  
UUGGUCCCCUUAACCAGCUGU&GGGCCCAAGCUCACCCUUGAUAGGUUCCACCCUGGGACCAAG



((((((((.....(((((((((&.....))))).))))).))))). -20.80  
>ENSRNOG00000001876 hs-mir-133 221 228  
UUGGUCCCCUUAACCAGCUGU&GUCCUGCAGAGACCCUGGCUAACCUCACCUACAGGGGACCAGU  
((((((((.....(((((((((&.....))))).))))).))))). -25.37  
>ENSRNOG00000001876 hs-mir-133 1171 1178  
UUGGUCCCCUUAACCAGCUGU&GCGGGUGUGGGCCUCACAGCUAACUCCUUCUCAGGGACCAGG  
((((((((.....(((((((((&.....))))).))))).))))). -22.15

miRNA: mir-133

Human predicted target: ENSG00000171877  
Mouse predicted target: ENSMUSG00000027238  
Rat predicted target: ENSRNOG00000016189

Hs Gene description: NM\_032892

mir-133 ENSG00000171877 2000 nt UTR 2 hits 677 1162

-----1-----1-----  
-----

>ENSG00000171877 hs-mir-133 677 684  
UUGGUCCCCUUAACCAGCUGU&UGUUUUUCAAUCUGAGCAGAGUGGGCAUCUGAAGGGACCAC  
.((((((((.....(((((((((&.....))))).))))).))))). -27.20  
>ENSG00000171877 hs-mir-133 1162 1169  
UUGGUCCCCUUAACCAGCUGU&CAGAAAUAGAAUCCAAGAUAACAGCCUAGAAGGGACCAGG  
((((((((.....(((((((((&.....))))).))))).))))). -25.80

mir-133 ENSMUSG00000027238 4421 nt UTR 2 hits 360 703

-----1-----1-----  
-----

>ENSMUSG00000027238 hs-mir-133 360 367  
UUGGUCCCCUUAACCAGCUGU&GAGGAAGGCAUCGAGAAGGAGCAGCGGCCUUGGAAGGGACCAGG  
((((((((.....(((((((((&.....))))).))))).))))). -30.70  
>ENSMUSG00000027238 hs-mir-133 703 710  
UUGGUCCCCUUAACCAGCUGU&GACUCACGUAAAGGACAGUCAAGGGCACACUCCUGGGACCAGA  
((((((((.....(((((((((&.....))))).))))).))))). -21.69

mir-133 ENSRNOG00000016189 2568 nt UTR 2 hits 1045 1412

-----1-----1-----  
-----

>ENSRNOG00000016189 hs-mir-133 1045 1052  
UUGGUCCCCUUAACCAGCUGU&GAGGAAGGCAUCGGGAAGGAGCAGCAGCAUUGGAAGGGACCAGG  
((((((((.....(((((((((&.....))))).))))).))))). -28.70  
>ENSRNOG00000016189 hs-mir-133 1412 1419  
UUGGUCCCCUUAACCAGCUGU&UCACUCAUAUAAAGGACAGUCAAGGGGUAUCUCCAGGGACCAGA  
((((((((.....(((((((((&.....))))).))))).))))). -23.80

miRNA: mir-133

Human predicted target: ENSG00000173548  
Mouse predicted target: ENSMUSG00000032733  
Rat predicted target: ENSRNOG00000017382





UUGGUCCCCUUAACCAGCUGU&CUAUGUGGCCUAUCACUACAUCAGCCUUUCAAAUUGGGACCAU  
.(((((((.....((((&.....)))))).....))))). -21.51  
mir-133 ENSRNOG00000015474 2783 nt UTR 2 hits 363 1835  
-----1-----  
1-----  
>ENSRNOG00000015474 hs-mir-133 363 370  
UUGGUCCCCUUAACCAGCUGU&CUCUGCUUGUGCAUGCCCUUCCUCAUGAGGUUGAGGGGACCAAA  
(((((((((((.....((((&.....)))))).....)))))).....))))). -28.32  
>ENSRNOG00000015474 hs-mir-133 1835 1842  
UUGGUCCCCUUAACCAGCUGU&CUGAUGCUUUAAGGACGGGCCACCAGGGAGCCUGGGGACCAU  
.(((((((.....((((&.....)))))).....))))). -24.00

miRNA: mir-135b

Human predicted target: ENSG00000053254

Mouse predicted target: ENSMUSG00000033713

Rat predicted target: ENSRNOG00000004709

Hs Gene description: CHECKPOINT SUPPRESSOR 1 (FORKHEAD BOX PROTEIN N3).

[Source:SWISSPROT;Acc:O00409] NM\_005197

mir-135b ENSG00000053254 3029 nt UTR 3 hits 211 780 2620

-----1-----1-----  
-----1-----  
>ENSG00000053254 hs-mir-135b 211 218  
UAUGGCUUUUUAUCCUAUGUGAU&UGGACCCUUAAGAAUUUUUAUUUUUAAGGAGAUUGAAGCCAUAG  
(((((((((((.....((((&.....)))))).....)))))).....))))). -  
22.00  
>ENSG00000053254 hs-mir-135b 780 787  
UAUGGCUUUUUAUCCUAUGUGAU&AUUCUGUUCUCUAUUAAAUAAGAAAUGUCCAAAAGCCAUA  
(((((((((((.....&.....)))))).....))))). -  
16.20  
>ENSG00000053254 hs-mir-135b 2620 2627  
UAUGGCUUUUUAUCCUAUGUGAU&GUUCCCUCCGUCUCCCAGACAUCUGACACCCUAAAAGCCAUC  
.(((((((((((.....((((&.....)))))).....)))))).....))))). -  
16.50  
mir-135b ENSMUSG00000033713 2310 nt UTR 2 hits 236 798  
-----1-----1-----  
-----1-----  
>ENSMUSG00000033713 hs-mir-135b 236 243  
UAUGGCUUUUUAUCCUAUGUGAU&GGACCCUUAUUUUUUUUCUGUUUAAGGAGAUUGAAGCCAUAG  
(((((((((((.....((((&.....)))))).....)))))).....))))). -  
22.00  
>ENSMUSG00000033713 hs-mir-135b 798 805  
UAUGGCUUUUUAUCCUAUGUGAU&GAGUUCUGCUCUAUGUUAAAUAAGAAGACUCCAAAGCCAUA  
(((((((((((.....((((&.....)))))).....)))))).....))))). -  
15.60  
mir-135b ENSRNOG00000004709 3495 nt UTR 3 hits 217 720 1863  
-----1-----1-----  
1-----

```

>ENSRNOG00000004709 hs-mir-135b      217      224
UAUGGCUUUUUUAUCCUAUGUGAU&UGGACCCUUAAGAAUUUCUGUUUAAAGGAGAUUGAAGCCAUAAG
((((((((((...((((((.....&.....))))))....)))))))). -
22.00
>ENSRNOG00000004709 hs-mir-135b      720      727
UAUGGCUUUUUUAUCCUAUGUGAU&GUUCUGCUCUAUGUUAAAUCAAGAAGACGUUCCAAAAGCCAUA
((((((((((...(((...(((...(((&.....))))))....))....))....)))). -
17.70
>ENSRNOG00000004709 hs-mir-135b     1863     1870
UAUGGCUUUUUUAUCCUAUGUGAU&GUUCUGCUCUAUGUUAAAUCAAGAAGACGUUCCAAAAGCCAUA
((((((((((...(((...(((...(((&.....))))))....))....))....)))). -
17.70

```

miRNA: mir-135b

Human predicted target: ENSG00000061337  
 Mouse predicted target: ENSMUSG00000036306  
 Rat predicted target: ENSRNOG00000011826  
 Hs Gene description: LEUCINE ZIPPER, PUTATIVE TUMOR SUPPRESSOR 1;  
 F37/ESOPHAGEAL CANCER-RELATED GENE-CODING LEUCINE-ZIPPER MOTIF.  
 [Source:RefSeq;Acc:NM\_021020]

```

mir-135b  ENSG00000061337      5559 nt UTR      3 hits 420 770 3240
-----1-----1-----1-----
-----1-----
-----1-----

```

```

>ENSG00000061337 hs-mir-135b      420      427
UAUGGCUUUUUUAUCCUAUGUGAU&UCCUGGACACAUUGGAAUGCCUUGGAAUAGAAAGAAGCCAUAU
(((((((((((((...(((...(((...(((...&.....))))))....))....))....)))). -
26.53
>ENSG00000061337 hs-mir-135b      770      777
UAUGGCUUUUUUAUCCUAUGUGAU&CCAGUGACCUUUGACCUCGGUGACCACUCUUCUUUAAGCCAUA
((((((((((...(((...(((...(((...(((...&.....))))))....))....))....)))). -
16.21
>ENSG00000061337 hs-mir-135b     3240     3247
UAUGGCUUUUUUAUCCUAUGUGAU&AGCAGCUUGGGGAGAGGGAUUUCCUGCAGACCUCAAGCCAUC
.((((((((((...(((...(((...(((...(((...&.....))))))....))....))....)))). -
17.29

```

```

mir-135b  ENSMUSG00000036306    2000 nt UTR      3 hits 414 676 1327
-----1-----1-----1-----
-----1-----

```

```

>ENSMUSG00000036306 hs-mir-135b    414      421
UAUGGCUUUUUUAUCCUAUGUGAU&CCUGGUCAUAUUGGGGUGCCUUGGGAAUAGAAAGAAGCCAUGU
(((((((((((((...(((...(((...(((...(((...&.....))))))....))....))....)))). -
25.60
>ENSMUSG00000036306 hs-mir-135b    676      683
UAUGGCUUUUUUAUCCUAUGUGAU&CGUAGCCCUUUGACCUCAGUGACCACUGUUUUUAAAGCCAUA

```

((((((((((..(..(....(((..&.....))))).))..)))))))). -  
17.40

>ENSMUSG00000036306 hs-mir-135b 1327 1334  
UAUGGCUUUUUUAUCCUAUGUGAU&UUGUUGGUAGGGCACCCAGCCCUUGCUGGAUCCUAAGCCAUGU  
((((((((((..(..(....(((..&.....))))).))..)))))))). -  
20.00

mir-135b ENSRNOG00000011826 4846 nt UTR 2 hits 435 698  
-----1-----1-----  
-----

>ENSRNOG00000011826 hs-mir-135b 435 442  
UAUGGCUUUUUUAUCCUAUGUGAU&CCUGGGCAUCUUGGGAUGCCUUUGGGAAUAGAAAGAAGCCAUGU  
(((((((((((((.....&.....))))))..)))))))). -  
23.70

>ENSRNOG00000011826 hs-mir-135b 698 705  
UAUGGCUUUUUUAUCCUAUGUGAU&CAUAGCCCUUUGACCUCAGUGGUCACUCUGUUUAAAGCCAUG  
((((((((((..(..(....((((&.....))))).))..)))))))). -  
20.50

miRNA: mir-135b  
Human predicted target: ENSG00000102606  
Mouse predicted target: ENSMUSG00000031511  
Rat predicted target: ENSRNOG00000012934  
Hs Gene description: RHO GUANINE NUCLEOTIDE EXCHANGE FACTOR 7 (PAK-  
INTERACTING EXCHANGE FACTOR BETA) (BETA-PIX) (COOL-1) (P85).  
[Source:SWISSPROT;Acc:Q14155] NM\_003899  
mir-135b ENSG00000102606 4863 nt UTR 2 hits 2496 2684  
-----1-----1-----  
-----

>ENSG00000102606 hs-mir-135b 2496 2503  
UAUGGCUUUUUUAUCCUAUGUGAU&GAAAGGAUGAAGAGUCUGAACUAGAAGGUAGGUUUUAGCCAUC  
((((((((((..(..(....(((..&.....))))).))..)))))))). -  
18.50

>ENSG00000102606 hs-mir-135b 2684 2691  
UAUGGCUUUUUUAUCCUAUGUGAU&UCUCUAUAUUGUGCUCUUUAUCUGUGAAUGGGAAAAGCCAUC  
(((((((((((((.....&.....))))).))..)))))))). -  
18.60

mir-135b ENSMUSG00000031511 4121 nt UTR 2 hits 1892 3728  
-----1-----1-----  
-----

>ENSMUSG00000031511 hs-mir-135b 1892 1899  
UAUGGCUUUUUUAUCCUAUGUGAU&AGUCCUCUGUGUUCUGUAAGGGGAUCAAGCCAUC  
((((((((((..(..(....(((..&.....))))).))..)))))))). -  
21.00

>ENSMUSG00000031511 hs-mir-135b 3728 3735

UAUGGCUUUUUAUCCUAUGUGAU&CUGUGUGUGUCCAGCCAGGUCCAGGGGUGUUGAAAGCCAUGG  
(((((((((((((.....)))))))).)))). -  
24.00

mir-135b ENSRNOG00000012934 3796 nt UTR 2 hits 1645 3514  
-----1-----  
-----1-----  
----

>ENSRNOG00000012934 hs-mir-135b 1645 1652  
UAUGGCUUUUUAUCCUAUGUGAU&CUCACCAACUCCUCUGUGAGGGAUGAGGGGGAUUAAGCCAUI  
(((((((((((((.....)))))))).)))). -  
20.71

>ENSRNOG00000012934 hs-mir-135b 3514 3521  
UAUGGCUUUUUAUCCUAUGUGAU&AACUCCUCCGCGCUCUGUGAGGGAUGAGGGGGAUUAAGCCAUI  
(((((((((((((.....)))))))).)))). -  
21.31

miRNA: mir-135b  
Human predicted target: ENSG00000145925  
Mouse predicted target: ENSMUSG00000025867  
Mouse predicted target: ENSMUSG00000033615  
Rat predicted target: ENSRNOG00000000105  
Hs Gene description: COMPLEXIN 2 (SYNAPHIN 1) (921-L).  
[Source:SWISSPROT;Acc:Q13329] NM\_006651

mir-135b ENSG00000145925 2183 nt UTR 2 hits 1741 1927  
-----1-----  
---1-----

>ENSG00000145925 hs-mir-135b 1741 1748  
UAUGGCUUUUUAUCCUAUGUGAU&AAUCCACUGCAAUGGACCCAGGCAGCGCCCCAGGAAGCCAUGC  
(((((((((((((.....)))))))).)))). -  
18.34

>ENSG00000145925 hs-mir-135b 1927 1934  
UAUGGCUUUUUAUCCUAUGUGAU&AGACAUGUGUCUUCUCUGUCCGUUCCAAUAGGUAAAGCCAUI  
(((((((((((((.....)))))))).)))). -  
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&AGACAGACGUCUUCUCCUGUCCGUUCCAAUAGUAAAGCCAUI  
(((((((((((((.....)))))))).)))). -  
17.70

mir-135b ENSMUSG00000033615 3569 nt UTR 2 hits 110 1246

-----1-----1-----

>ENSMUSG00000033615 hs-mir-135b 110 117  
UAUGGCUUUUUUAUCCUAUGUGAU&GGGAGCAGAUGCAGCCCCCUACCCCGCAAAAUAAGCCAUAAG  
(((((((((((((.....&)))))).)).....)))))))). -  
16.36

>ENSMUSG00000033615 hs-mir-135b 1246 1253  
UAUGGCUUUUUUAUCCUAUGUGAU&CAUUGACCUUCAUGACCUUACAUAAGCUCUUUAGAGAAGCCAUA  
(((((((((((((.....(((((.....&.....)))))))).)).....)))))))). -  
24.20

mir-135b ENSRNOG00000000105 2000 nt UTR 2 hits 1689 1875

-----1-----1-----

1-----  
>ENSRNOG00000000105 hs-mir-135b 1689 1696  
UAUGGCUUUUUUAUCCUAUGUGAU&AAUGCUACUGGGACAGACCCAGGCAGUGCCCCAGGAAGCCAUGC  
(((((((((((((.....(((((.....&.....)))))))).)).....)))))))). -  
19.30

>ENSRNOG00000000105 hs-mir-135b 1875 1882  
UAUGGCUUUUUUAUCCUAUGUGAU&AGACAGACGUCUCCUGUCCGUUCCAAUAGUUAAAGCCAUAU  
(((((((((((((.....(((((.....&.....)))))))).)).....)))))))). -  
17.70

miRNA: mir-135b

Human predicted target: ENSG00000147274

Mouse predicted target: ENSMUSG00000031134

Rat predicted target: ENSRNOG00000000866

Hs Gene description: HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G (HNRNP G)  
(RNA BINDING MOTIF PROTEIN, X CHROMOSOME) (GLYCOPROTEIN P43).

[Source:SWISSPROT;Acc:P38159] NM\_002139

mir-135b ENSG00000147274 2681 nt UTR 3 hits 1301 1588 1610

-----1-----11-----

>ENSG00000147274 hs-mir-135b 1301 1308  
UAUGGCUUUUUUAUCCUAUGUGAU&UGGCUUAAGUUUGGGUCCCCUUUUUACCCUGUAAGCCAUA  
(((((((((((((.....(((((.....&.....)))))))).)).....)))))))). -  
14.45

>ENSG00000147274 hs-mir-135b 1588 1595  
UAUGGCUUUUUUAUCCUAUGUGAU&UGGCAGUGCACCAUUGGAACAGAAUGACAAUCCAUAAGCCAUGC  
(((((((((((((.....(((((.....&.....)))))))).)).....)))))))). -  
18.50

>ENSG00000147274 hs-mir-135b 1610 1617  
UAUGGCUUUUUUAUCCUAUGUGAU&AAUGACAAUCCAUAAGCCAUGCAACUUAACAAUUUAAGCCAUA  
(((((((((((((.....(((((.....&.....)))))))).)).....)))))))). -  
12.83

mir-135b ENSMUSG00000031134 2737 nt UTR 3 hits 1348 1641 1663

-----1-----11-----



```

>ENSMUSG00000031134 hs-mir-135b 1348 1355
UAUGGCUUUUUUAUCCUAUGUGAU&GCUUAGGAUUGGGGUCCCCUGUCUUGACCCCUAUAAGCCAUU
.(((((((((((((.((((.(...&)).)))))).))))).)))). -
17.44
>ENSMUSG00000031134 hs-mir-135b 1641 1648
UAUGGCUUUUUUAUCCUAUGUGAU&UGGCAGUGCACCAUUGGAAAAGAAUGAGAAUCCAUAAGCCAUGC
(((((((((((((((.((((.(...&.....)))))).)))))).)))). -
18.50
>ENSMUSG00000031134 hs-mir-135b 1663 1670
UAUGGCUUUUUUAUCCUAUGUGAU&AAUGAGAAUCCAUAAGCCAUGCAACUUAACCAUUUAAGCCAUU
.((((((((.....(((.(...&.....)))))).)))). -
12.65
mir-135b ENSRNOG00000000866 2703 nt UTR 3 hits 1296 1585 1607
-----1-----11-----
-----

```

```

>ENSRNOG00000000866 hs-mir-135b 1296 1303
UAUGGCUUUUUUAUCCUAUGUGAU&GGCUUAGGAUUGGGGUCCCCUGUCUGACCCCUAUAAGCCAUU
.(((((((((((((((.((((.(...&)).)))))).))))).)))). -
17.89
>ENSRNOG00000000866 hs-mir-135b 1585 1592
UAUGGCUUUUUUAUCCUAUGUGAU&UGGCAGUGCUCCAUUGGAAAAGAAUGAGAAUCCAUAAGCCAUGC
(((((((((((((((.((((.(...&.....)))))).)))))).)))). -
18.80
>ENSRNOG00000000866 hs-mir-135b 1607 1614
UAUGGCUUUUUUAUCCUAUGUGAU&AAUGAGAAUCCAUAAGCCAUGCAACUUAACCAUUUAAGCCAUU
.((((((((.....(((.(...&.....)))))).)))). -
12.65

```

```

miRNA: mir-135b
Human predicted target: ENSG00000161642
Mouse predicted target: ENSMUSG00000000552
Rat predicted target: ENSRNOG00000017818
Hs Gene description: NM_015481

```

```

mir-135b ENSG00000161642 3120 nt UTR 2 hits 290 343
-----1-1-----
-----
>ENSG00000161642 hs-mir-135b 290 297
UAUGGCUUUUUUAUCCUAUGUGAU&CCCCGAGCCCCUUGGAGACACCCCCCUCCAAAAGCCAUGU
((((((((((((.....(((.(...&.....)))))).)))).)))). -
17.31
>ENSG00000161642 hs-mir-135b 343 350
UAUGGCUUUUUUAUCCUAUGUGAU&CCUCCCCCAAACCUAGCACAAAACGGGGUUCACAAGCCAUGG
((((((((.....(((.(...&.....)))))).)))). -
21.50
mir-135b ENSMUSG00000000552 2000 nt UTR 2 hits 288 342
-----1-1-----
-----

```

>ENSMUSG00000000552 hs-mir-135b 288 295  
UAUGGCUUUUUUAUCCUAUGUGAU&CACCCCGAGCCCCUCGGAGACACCCCUCCCAAAGCCAUGU  
((((((((((.....((..&.....)))))).....)))))))). -  
17.43  
>ENSMUSG00000000552 hs-mir-135b 342 349  
UAUGGCUUUUUUAUCCUAUGUGAU&CUUCCCCUCCAAACCUAGCACAAAACGGGGUUCACAAGCCAUGG  
((((((((((.....(((((..&.....)))))).....)))))).....)))))))). -  
21.50  
mir-135b ENSRNOG00000017818 2000 nt UTR 2 hits 288 342  
-----1-1-----

>ENSRNOG00000017818 hs-mir-135b 288 295  
UAUGGCUUUUUUAUCCUAUGUGAU&CACCCCGAGCCCCUCGGAGACACCCCUCCCAAAGCCAUGU  
((((((((((.....((..&.....)))))).....)))))))). -  
17.43  
>ENSRNOG00000017818 hs-mir-135b 342 349  
UAUGGCUUUUUUAUCCUAUGUGAU&CUUCCCCUCCAAACCUAGCACAAAACGGGGUUCACAAGCCAUGG  
((((((((((.....(((((..&.....)))))).....)))))).....)))))))). -  
21.50

miRNA: mir-135b  
Human predicted target: ENSG00000163873  
Mouse predicted target: ENSMUSG00000001985  
Rat predicted target: ENSRNOG00000008992  
Hs Gene description: GLUTAMATE RECEPTOR, IONOTROPIC KAINATE 3 PRECURSOR  
(GLUTAMATE RECEPTOR 7) (GLUR-7) (GLUR7) (EXCITATORY AMINO ACID RECEPTOR 5)  
(EAA5). [Source:SWISSPROT;Acc:Q13003] NM\_000831  
mir-135b ENSG00000163873 2838 nt UTR 3 hits 1898 2155 2315  
-----

-1-----1-----1-----  
>ENSG00000163873 hs-mir-135b 1898 1905  
UAUGGCUUUUUUAUCCUAUGUGAU&CAUACACCAAAGCCCAUGCAUGUAAUGUUAGGAAAAGCCAUGC  
((((((((((.....(((((..&.....)))))).....)))))).....)))))))). -  
20.20  
>ENSG00000163873 hs-mir-135b 2155 2162  
UAUGGCUUUUUUAUCCUAUGUGAU&GAAGCAGCAAGGCCCAUUAUGUAAAAACAGGAGAAGCCAUGU  
((((((((((.....(((((..&.....)))))).....)))))).....)))))))). -  
19.80  
>ENSG00000163873 hs-mir-135b 2315 2322  
UAUGGCUUUUUUAUCCUAUGUGAU&CUUACCUGCAGCUAGCCAAUAUGCGUAAAAGGAGAAGCCAUGU  
((((((((((.....(((((..&.....)))))).....)))))).....)))))))). -  
21.00  
mir-135b ENSMUSG00000001985 2257 nt UTR 2 hits 2053 2227  
-----

-----1-----1-----  
>ENSMUSG00000001985 hs-mir-135b 2053 2060  
UAUGGCUUUUUUAUCCUAUGUGAU&CCGGUAACAGAGUCUCAUCUAUGUAAAAACAGGAGAAGCCAUGU

(((.....((((((.....&.....)))))).)))).....)))))))). -  
18.60  
>ENSMUSG00000001985 hs-mir-135b 2227 2234  
UAUGGCUUUUUUAUCCUAUGUGAU&CAGCCUGAAGUAUAGCCAAAUACUUGUAAAAGGAGAAGCCAUGU  
(((.....((((((.....&.....)))))).)))).....)))))))). -  
18.53  
mir-135b ENSRNOG00000008992 2706 nt UTR 3 hits 1766 2001 2250  
-----1-----1-----  
>ENSRNOG00000008992 hs-mir-135b 1766 1773  
UAUGGCUUUUUUAUCCUAUGUGAU&CUUGCAGUCAAGCCCAGGGCACACAAUGAUAGGAAAAGCCAUGC  
(((.....((((((.....&.....)))))).)))).....)))))))). -  
22.50  
>ENSRNOG00000008992 hs-mir-135b 2001 2008  
UAUGGCUUUUUUAUCCUAUGUGAU&CCUGCAACAGAGUCUCAUCUAUGUAAAACGAGAGAAGCCAUGU  
(((.....((((((.....&.....)))))).)))).....)))))))). -  
17.50  
>ENSRNOG00000008992 hs-mir-135b 2250 2257  
UAUGGCUUUUUUAUCCUAUGUGAU&CAACCUGCAGUAUAGCCAAAUACUUGUAAAAGGAGAAGCCAUGU  
(((.....((((((.....&.....)))))).)))).....)))))))). -  
18.53

miRNA: mir-135b

Human predicted target: ENSG00000172845  
Mouse predicted target: ENSMUSG00000027109  
Mouse predicted target: ENSMUSG00000041788  
Rat predicted target: ENSRNOG00000019263  
Hs Gene description: TRANSCRIPTION FACTOR SP3 (SPR-2) (FRAGMENT).  
[Source:SWISSPROT;Acc:Q02447]

mir-135b ENSG00000172845 3411 nt UTR 2 hits 633 886  
-----1-----1-----  
>ENSG00000172845 hs-mir-135b 633 640  
UAUGGCUUUUUUAUCCUAUGUGAU&ACUCUAGGGAUAGUCACCUUUUAAAUCCUGUUGAAAAGCCAUGU  
(((.....((((((.....&.....)))))).)))).....)))))))). -  
21.09  
>ENSG00000172845 hs-mir-135b 886 893  
UAUGGCUUUUUUAUCCUAUGUGAU&CUUGUUUCCAAAACCAUGUCUCCCAGGGCCUAAAAGCCAUC  
(((.....((((((.....&.....)))))).)))).....)))))))). -  
19.70  
mir-135b ENSMUSG00000027109 3632 nt UTR 2 hits 628 910  
-----1-----1-----  
>ENSMUSG00000027109 hs-mir-135b 628 635  
UAUGGCUUUUUUAUCCUAUGUGAU&CCUUUAGGGAUAGUCACCUUUUAAAUCCUGUUGAAAAGCCAUGU  
(((.....((((((.....&.....)))))).)))).....)))))))). -  
21.19

>ENSMUSG00000027109 hs-mir-135b 910 917  
UAUGGCUUUUUUAUCCUAUGUGAU&AAAAAAAAAAAAAAAAUAUGUCUGCCAGGGCCUUA AAAAGCCAUC  
.((((((((((...(((((((&.....))))))....))))).))))). -  
19.20

mir-135b ENSMUSG00000041788 2000 nt UTR 1 hits 1252  
-----1-----  
-----

>ENSMUSG00000041788 hs-mir-135b 1252 1259  
UAUGGCUUUUUUAUCCUAUGUGAU&UUAGUUGUAGGCAAUGAAGUUUAUGUGGGUUGCAAAGCCAUG  
((((((((((...(((((((&.....))))))....))))).))))). -  
25.50

mir-135b ENSRNOG00000019263 3628 nt UTR 2 hits 630 900  
-----1-----1-----  
-----

>ENSRNOG00000019263 hs-mir-135b 630 637  
UAUGGCUUUUUUAUCCUAUGUGAU&CCUUUAGGGAUAGUCACCUUUUAAAUCUGUUGAAAAGCCAUGU  
((((((((((...(((((((&.....))))))....))))).))))). -  
21.19

>ENSRNOG00000019263 hs-mir-135b 900 907  
UAUGGCUUUUUUAUCCUAUGUGAU&CUUGUUUCCAAAAUAUGUCUGCCAGGGCCUUA AAAAGCCAUC  
.((((((((((...(((((((&.....))))))....))))).))))). -  
19.20

miRNA: mir-135b

Human predicted target: ENSG00000173153

Mouse predicted target: ENSMUSG00000024955

Rat predicted target: ENSRNOG00000021139

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&UGUGUCCAGGCUCUGGGCACAGUGCUGCCCUUGCAAGCCAUA  
((((((((((...(((((((&.....))))))....))))).))))). -  
16.45

>ENSG00000173153 hs-mir-135b 267 274  
UAUGGCUUUUUUAUCCUAUGUGAU&CAUAACGUGCCCCAGAGUGUAGGGGGCCUUGCGGAAGCCAUG  
((((((((((...(((((((&.....))))))....))))).))))). -  
22.40

mir-135b ENSMUSG00000024955 2773 nt UTR 2 hits 237 278  
-----1-1-----  
-----

>ENSMUSG00000024955 hs-mir-135b 237 244  
UAUGGCUUUUUUAUCCUAUGUGAU&GAAUGCCAGGUGUGGGCACAGUGCUGCCCUUGCAAGCCAUA

```

(((((((((((((((((((((.....&.....)))))).....)))))))). -
16.46
>ENSMUSG00000024955 hs-mir-135b      278      285
UAUGGCUUUUUUAUCCUAUGUGAU&UAACGUGCCCCCAAGAGUGUUGGGGGCCUCGCGGAAGCCAUAAG
(((((((((((((((((((((.....&.....)))))).....)))))))). -
19.30
mir-135b  ENSRNOG00000021139  2765 nt UTR      4 hits 226 269 935 978
-----11-----1-1-----
>ENSRNOG00000021139 hs-mir-135b      226      233
UAUGGCUUUUUUAUCCUAUGUGAU&GAAUGCCAGGUGUGGGCACAGUGCUGCCCCUUGCAAGCCAUAUA
(((((((((((((((((((((.....&.....)))))).....)))))))). -
16.46
>ENSRNOG00000021139 hs-mir-135b      269      276
UAUGGCUUUUUUAUCCUAUGUGAU&ACGUGCCCCUCCCAGAGUGUCGGGGGCCUUGCGGAAGCCAUAAG
(((((((((((((((((((((.....&.....)))))).....)))))))). -
19.40
>ENSRNOG00000021139 hs-mir-135b      935      942
UAUGGCUUUUUUAUCCUAUGUGAU&GAAUGCCAGGUGUGGGCACAGUGCUGCCCCUUGCAAGCCAUAUA
(((((((((((((((((((((.....&.....)))))).....)))))))). -
16.46
>ENSRNOG00000021139 hs-mir-135b      978      985
UAUGGCUUUUUUAUCCUAUGUGAU&ACGUGCCCCUCCCAGAGUGUCGGGGGCCUUGCGGAAGCCAUAAG
(((((((((((((((((((((.....&.....)))))).....)))))))). -
19.40

```

miRNA: mir-137

```

Human predicted target: ENSG00000135333
Mouse predicted target: ENSMUSG00000028289
Rat predicted target: ENSRNOG00000007030
Hs Gene description: EPHRIN TYPE-A RECEPTOR 7 PRECURSOR (EC 2.7.1.112)
(TYROSINE-PROTEIN KINASE RECEPTOR EHK-3) (EPH HOMOLOGY KINASE-3) (RECEPTOR
PROTEIN- TYROSINE KINASE HEK11). [Source:SWISSPROT;Acc:Q15375]
mir-137  ENSG00000135333      2000 nt UTR      2 hits 747 1316
-----1-----1-----
>ENSG00000135333 hs-mir-137      747      754
UAUUGC UUAAGAAUACGCGUAG&AAAGAUCAGACAACACACUAUCUUUCAUGAAAAAAGCAAUAA
(((((((((((((((((((((.....&.....)))))).....)))))))). -12.60
>ENSG00000135333 hs-mir-137      1316      1323
UAUUGC UUAAGAAUACGCGUAG&AACCAUAUUUUUGAUUACUGUGUAGAAUUUCAUAAGCAAUAA
(((((((((((((((((((((.....&.....)))))).....)))))))). -19.50
mir-137  ENSMUSG00000028289  2386 nt UTR      2 hits 776 1383
-----1-----1-----
>ENSMUSG00000028289 hs-mir-137      776      783
UAUUGC UUAAGAAUACGCGUAG&UACUAACUUUCAUGAAAAAAGAAAGCAAUAA

```

((((((((.....&.....)))))))). -12.60  
>ENSMUSG00000028289 hs-mir-137 1383 1390  
UAUUGCUUAAGAAUACGCGUAG&GACCAUAUUUUUGGUUACUGUGUUUGAAUUUCAUAAGCAAUAA  
(((((((((((((.....&.....)))))))).))))). -19.40  
mir-137 ENSRNOG00000007030 3416 nt UTR 4 hits 955 1655 2534 2702  
-----1-----1-----  
-----1-----1-----  
>ENSRNOG00000007030 hs-mir-137 955 962  
UAUUGCUUAAGAAUACGCGUAG&AUAAGAAGUUCUUUGUGGUCGUCAGCUGAAUCUGAAAGCAAUC  
(((((((((((((.....&.....)))))))).))))). -14.60  
>ENSRNOG00000007030 hs-mir-137 1655 1662  
UAUUGCUUAAGAAUACGCGUAG&AGUGAAUGUGGUUGUUGUACUGUUGUACGUUGCUUAAGCAAUU  
(((((((((((((.....&.....)))))))).))))). -19.80  
>ENSRNOG00000007030 hs-mir-137 2534 2541  
UAUUGCUUAAGAAUACGCGUAG&AUAAGAAGUUCUUUGUGGUCGUCAGCUGAAUCUGAAAGCAAUC  
(((((((((((((.....&.....)))))))).))))). -14.60  
>ENSRNOG00000007030 hs-mir-137 2702 2709  
UAUUGCUUAAGAAUACGCGUAG&AAAUAUAGUCCACGGACUGCCAUGUGUUCUGGAAAGCAAUGG  
(((((((((((((.....&.....)))))))).))))). -23.00

miRNA: mir-138

Human predicted target: ENSG00000007816

Mouse predicted target: ENSMUSG00000024312

Rat predicted target: ENSRNOG00000000472

Hs Gene description: WD-REPEAT PROTEIN BING4.

[Source:SWISSPROT;Acc:O15213] NM\_005452

mir-138 ENSG00000007816 2171 nt UTR 3 hits 819 917 1806

-----1-----1-----1-----  
-----  
>ENSG00000007816 hs-mir-138 819 826  
AGCUGGUGUUGUGAAUC&CAAAGGGGCGCAGUCCUUUCCCGUCAGAGCCACCCACCAGCUU  
(((((((((((((.....&.....)))))))).))))). -21.00  
>ENSG00000007816 hs-mir-138 917 924  
AGCUGGUGUUGUGAAUC&CCCAUAGCAGCACCGGUCUAGCGGGUAGUGGGUGGCACCAGCC  
(((((((((((((.....&.....)))))))).))))). -21.40  
>ENSG00000007816 hs-mir-138 1806 1813  
AGCUGGUGUUGUGAAUC&CCCAACCCCGAAGGCCCGAAGAGGGUCCAGACGAUCACCAGCA  
(((((((((((((.....&.....)))))))).))))). -21.00  
mir-138 ENSMUSG00000024312 2279 nt UTR 3 hits 831 929 1308  
-----1-----1-----1-----  
-----  
>ENSMUSG00000024312 hs-mir-138 831 838  
AGCUGGUGUUGUGAAUC&CAAAGGGGUGCAGUCCUCUCCCAUUC AUGCCGCUCACCAGCUU  
(((((((((((((.....&.....)))))))).))))). -20.40  
>ENSMUSG00000024312 hs-mir-138 929 936  
AGCUGGUGUUGUGAAUC&CCCGUAACAGCACCGAUCCAAGGGUAGUGGGUAGCACCAGCC  
(((((((((((((.....&.....)))))))).))))). -20.60

>ENSMUSG00000024312 hs-mir-138 1308 1315  
AGCUGGUGUUGUGAAUC&UGCUCCGAAGGCCCCCCUCUUUGUAUCAGCUCUGACACCAGCUC  
(((((((((((((...&.....))))))))))))). -21.20  
mir-138 ENSRNOG00000000472 2202 nt UTR 3 hits 1034 1132 1511  
-----1--1-----1-----

>ENSRNOG00000000472 hs-mir-138 1034 1041  
AGCUGGUGUUGUGAAUC&CAAAGGGCUCAGUCCUUCUCCAUUCAGUCCUCUCACCAGCUU  
(((((((((((((...&.....))))))))))))). -18.80  
>ENSRNOG00000000472 hs-mir-138 1132 1139  
AGCUGGUGUUGUGAAUC&CCCGUAACAGCACCUAUCCAGUGGGUAGUGGGUAGCACCAGCC  
(((((((((((((...&.....))))))))))))). -20.60  
>ENSRNOG00000000472 hs-mir-138 1511 1518  
AGCUGGUGUUGUGAAUC&UGCUCUGAAGGCCCCCCUCUCUGUAUCAGUUCUGACACCAGCUC  
(((((((((((((...&.....))))))))))))). -23.00

miRNA: mir-138  
Human predicted target: ENSG00000054598  
Mouse predicted target: ENSMUSG00000050295  
Rat predicted target: ENSRNOG00000017800  
Hs Gene description: FORKHEAD BOX PROTEIN C1 (FORKHEAD-RELATED PROTEIN  
FKHL7) (FORKHEAD- RELATED TRANSCRIPTION FACTOR 3) (FREAC-3).  
[Source:SWISSPROT;Acc:Q12948] NM\_001453  
mir-138 ENSG00000054598 2000 nt UTR 3 hits 124 160 166  
----1-2-----

>ENSG00000054598 hs-mir-138 124 131  
AGCUGGUGUUGUGAAUC&AUCCAAUUAACCCUGAGAAUUAUUCACCACACCAGCG  
(((((((((((((...&.....))))))))))))). -26.70  
>ENSG00000054598 hs-mir-138 160 167  
AGCUGGUGUUGUGAAUC&ACCAGCGAACAGAAUAUCCUCCAAAAUUCAGCUCACCAGCA  
(((((((((((((...&.....))))))))))))). -21.50  
>ENSG00000054598 hs-mir-138 166 173  
AGCUGGUGUUGUGAAUC&GAACAGAAUAUCCUCCAAAAUUCAGCUCACCAGCACCAGCA  
(((((((((((((...&.....))))))))))))). -25.60  
mir-138 ENSMUSG00000050295 3418 nt UTR 2 hits 125 159  
----1-1-----

>ENSMUSG00000050295 hs-mir-138 125 132  
AGCUGGUGUUGUGAAUC&ACAUAACAAUUUUAAAACUUGAGAAGAUUCCUCACACCAGCG  
(((((((((((((...&.....))))))))))))). -23.60  
>ENSMUSG00000050295 hs-mir-138 159 166  
AGCUGGUGUUGUGAAUC&ACACCAGCGAACAGAAUUCUCCUGAAAUUCAGCUCACCAGCA  
(((((((((((((...&.....))))))))))))). -21.50  
mir-138 ENSRNOG00000017800 2000 nt UTR 2 hits 128 162  
-----11-----

>ENSRNOG00000017800 hs-mir-138 128 135  
AGCUGGUGUUGUGAAUC&AACUUACAAAUUUAAAACUUGAGAAGAUUCAUCACACCAGCG  
.(((((((((.(((((((&.....)))))))).)))))))). -28.10  
>ENSRNOG00000017800 hs-mir-138 162 169  
AGCUGGUGUUGUGAAUC&ACACCAGCGAACAGAAUCUCUCCUGAAAUUAACUCACCAGCA  
.(((((((((.((((((.&.....)))))))).)))))))). -22.60

miRNA: mir-138

Human predicted target: ENSG00000070886

Mouse predicted target: ENSMUSG00000028661

Rat predicted target: ENSRNOG00000013036

Hs Gene description: EPHRIN TYPE-A RECEPTOR 8 PRECURSOR (EC 2.7.1.112)  
(TYROSINE-PROTEIN KINASE RECEPTOR EEK) (EPH-AND ELK-RELATED KINASE)  
(HEK3). [Source:SWISSPROT;Acc:P29322] NM\_020526

mir-138 ENSG00000070886 3853 nt UTR 2 hits 615 1469

-----1-----1-----  
-----

>ENSG00000070886 hs-mir-138 615 622  
AGCUGGUGUUGUGAAUC&CCUGGAGGCUGGAGCCAGGGGCCACUUCUGAACUGCACCAGCA  
.(((((((((.((.....&.....)))))))).)))))))). -21.20  
>ENSG00000070886 hs-mir-138 1469 1476  
AGCUGGUGUUGUGAAUC&CCCUCCTCAUAGCCAGCACAGCUAUCCCGCGGGGACACCAGCA  
.(((((((((.((((((.....&.....)))))))).)))))))). -22.20  
mir-138 ENSMUSG00000028661 3628 nt UTR 3 hits 561 1310 2691

-----1-----1-----  
-----

>ENSMUSG00000028661 hs-mir-138 561 568  
AGCUGGUGUUGUGAAUC&GCCUGCAGGCUGGAGCCAGGCUGCUUCCGAAUCACACCAGCA  
.(((((((((.((.....&.....)))))))).)))))))). -19.20  
>ENSMUSG00000028661 hs-mir-138 1310 1317  
AGCUGGUGUUGUGAAUC&AUCCUGCCCACAGCCAGCACAGCACCCUGUGAGACACCAGCA  
.(((((((((.((.....&.....)))))))).)))))))). -21.10  
>ENSMUSG00000028661 hs-mir-138 2691 2698  
AGCUGGUGUUGUGAAUC&CGGUAUGCUGUACCUUGCACUUUGAAUAACAGGCACACCAGCG  
.(((((((((.((.....&.....)))))))).)))))))). -20.70  
mir-138 ENSRNOG00000013036 2000 nt UTR 2 hits 1265 1641

-----1-----1-----  
-----

>ENSRNOG00000013036 hs-mir-138 1265 1272  
AGCUGGUGUUGUGAAUC&AUCCUGCCCACAGCCAGCACAGCACCCCGCGUGACACCAGCA  
.(((((((((.((.....&.....)))))))).)))))))). -24.50  
>ENSRNOG00000013036 hs-mir-138 1641 1648  
AGCUGGUGUUGUGAAUC&UUCUCCCCCUCCCCCAUAUCUGCUUCCACUAGGCACCAGCA  
.(((((((((.((.....&.....)))))))).)))))))). -22.60



miRNA: mir-138

Human predicted target: ENSG00000084628

Mouse predicted target: ENSMUSG00000023199

Rat predicted target: ENSRNOG00000011445

Hs Gene description: NM\_024522

mir-138 ENSG00000084628 3957 nt UTR 2 hits 405 1165

-----1-----1-----  
-----

>ENSG00000084628 hs-mir-138 405 412  
AGCUGGUGUUGUGAAUC&GGACAUCAGACCCAUCCCAUCCACACACUCACUCACCAGCUC  
((((((((((..(((...&.....)))))))).))))). -22.80

>ENSG00000084628 hs-mir-138 1165 1172  
AGCUGGUGUUGUGAAUC&UGGUCAGCGCUGCCAGACUCCAGUGUUUACAGAUCACCAGCA  
(((((((((((((...&.....)))))))).))))). -23.10

mir-138 ENSMUSG00000023199 2543 nt UTR 2 hits 791 1570  
-----1-----1-----

>ENSMUSG00000023199 hs-mir-138 791 798  
AGCUGGUGUUGUGAAUC&GCAUUC CAGAACACUCACAU AUCACAGCCACCACGCACCAGCUC  
(((((((((((((...&.....)))))))).))))). -23.10

>ENSMUSG00000023199 hs-mir-138 1570 1577  
AGCUGGUGUUGUGAAUC&UAGGCUAGGCUACCUCUUGCCACUGGGCCACCUC CACCAGCC  
((((((((((..(((...&.....)))))))).))))). -18.40

mir-138 ENSRNOG00000011445 2499 nt UTR 2 hits 752 1575  
-----1-----1-----

>ENSRNOG00000011445 hs-mir-138 752 759  
AGCUGGUGUUGUGAAUC&GCAAUCCCGCACACUCACAU AUCACCACCACAACACACCAGCUC  
(((((((((((((...&.....)))))))).))))). -23.10

>ENSRNOG00000011445 hs-mir-138 1575 1582  
AGCUGGUGUUGUGAAUC&UAAGUCAGGCUACCUCUUGCCACUGGGUCACUUC CACCAGCA  
((((((((((..(((...&.....)))))))).))))). -21.60

miRNA: mir-138

Human predicted target: ENSG00000101361

Mouse predicted target: ENSMUSG00000027405

Rat predicted target: ENSRNOG00000007128

Hs Gene description: NUCLEOLAR PROTEIN NOP56 (NUCLEOLAR PROTEIN 5A).

[Source:SWISSPROT;Acc:O00567] NM\_006392

mir-138 ENSG00000101361 2099 nt UTR 2 hits 1783 1877

-----1-----1-----  
-1-----

>ENSG00000101361 hs-mir-138 1783 1790  
AGCUGGUGUUGUGAAUC&UGCGUAUUCUGCACUAUAGCUCUCACCAGGGACCACACCAGCUC  
((((((((((..(((...&.....)))))))).))))). -20.80

>ENSG00000101361 hs-mir-138 1877 1884

```

AGCUGGUGUUGUGAAUC&GGCAUCACAAGCACAUCAAAACUGGUAAGGAUUCUGCACCAGCUA
((((((((((...(((((&.....)))))))).)))))))). -24.80
mir-138   ENSMUSG00000027405   2089 nt UTR   2 hits 285 1874
-----1-----
1-----
>ENSMUSG00000027405 hs-mir-138   285   292
AGCUGGUGUUGUGAAUC&UUGUCGCAACAACCCACCCUUGAGAUACCCUUAACACCAGCC
.((((((((((...(((((&.....)))))))).)))))))). -20.20
>ENSMUSG00000027405 hs-mir-138   1874   1881
AGCUGGUGUUGUGAAUC&GGCAUCACGAGCACAUCAAAACUGGUAAGGGUUCUGCACCAGCUA
((((((((((...(((((&.....)))))))).)))))))). -24.20
mir-138   ENSRNOG00000007128   2000 nt UTR   3 hits 527 1659 1753
-----1-----1-----1-----
-----
>ENSRNOG00000007128 hs-mir-138   527   534
AGCUGGUGUUGUGAAUC&AGCCUCCCAUGUCUCGAGUCCGGACCUACAGCCACCACCAGCA
.((((((((((...(((((&.....)))))))).)))))))). -18.90
>ENSRNOG00000007128 hs-mir-138   1659   1666
AGCUGGUGUUGUGAAUC&UGCAUACUCUGCACUGUAGCUCUCACCAGGAACCACACCAGCUC
((((((((((...(((((&.....)))))))).)))))))). -20.70
>ENSRNOG00000007128 hs-mir-138   1753   1760
AGCUGGUGUUGUGAAUC&GGCAUCACAAGCACAUCAAAACUGGUAAGGAUUCUGCACCAGCUA
((((((((((...(((((&.....)))))))).)))))))). -24.80

```

miRNA: mir-138

Human predicted target: ENSG00000108262

Mouse predicted target: ENSMUSG00000011877

Rat predicted target: ENSRNOG00000014883

Hs Gene description: ARF GTPASE-ACTIVATING PROTEIN GIT1 (G PROTEIN-COUPLED RECEPTOR KINASE- INTERACTOR 1). [Source:SWISSPROT;Acc:Q9Y2X7] NM\_014030

```

mir-138   ENSG00000108262   3226 nt UTR   4 hits 457 1109 2002 2108
-----1-----1-----
-----1-----1-----
>ENSG00000108262 hs-mir-138   457   464
AGCUGGUGUUGUGAAUC&GUACAUAGUCUCCAUGGAUGUCCUGCCCUGUAGCCACCAGCC
.((((((((((...(((((&.....)))))))).)))))))). -17.10
>ENSG00000108262 hs-mir-138   1109   1116
AGCUGGUGUUGUGAAUC&AGCCUGGGAAGGCUGGAGAGGCAGACGGUGGGACCCACCAGCUC
((((((((((...(((((&.....)))))))).)))))))). -17.80
>ENSG00000108262 hs-mir-138   2002   2009
AGCUGGUGUUGUGAAUC&GCGGGGGCCUCGGGUAGGGUAGGGAGGGAACUCCUCACCAGCC
.((((((((((...(((((&.....)))))))).)))))))). -17.30
>ENSG00000108262 hs-mir-138   2108   2115
AGCUGGUGUUGUGAAUC&UGCAGCCGUGUGCAGAGCGUGGCCAGGGUGAGCAGCACCAGCA
.((((((((((...(((((&.....)))))))).)))))))). -27.00
mir-138   ENSMUSG00000011877   2000 nt UTR   3 hits 763 1069 1858

```

-----1-----1-----  
1-----

>ENSMUSG00000011877 hs-mir-138 763 770  
AGCUGGUGUUGUGAAUC&UCUCCCCCACCUGGGACAGGGAGACUGUCAGGGUCACCAGCUG  
((((((((((...&.....)))))))). -22.10  
>ENSMUSG00000011877 hs-mir-138 1069 1076  
AGCUGGUGUUGUGAAUC&GCAGCUGGGAAGGCCGGCAAGGCACUGACAGCACCCACCAGCUC  
((((((((((...((...(&.....))....)))). -19.50  
>ENSMUSG00000011877 hs-mir-138 1858 1865  
AGCUGGUGUUGUGAAUC&UUGGGCGCACCAGAAAGGGGGAGGGGGCUCUUCUCACCAGCC  
((((((((((...((...(&.....))....)))). -18.50  
mir-138 ENSRNOG00000014883 2874 nt UTR 3 hits 752 1058 1896

-----1-----1-----  
-1-----

>ENSRNOG00000014883 hs-mir-138 752 759  
AGCUGGUGUUGUGAAUC&CCCUCUACCCAACCUGGGACGGGGACUGUCAGGGUCACCAGCUG  
((((((((((...&.....)))))))). -22.10  
>ENSRNOG00000014883 hs-mir-138 1058 1065  
AGCUGGUGUUGUGAAUC&GCAGCUGAAAAGCUGGCAAGGCACUGACAGCACCCACCAGCUA  
((((((((((...((...(&.....))....)))). -20.10  
>ENSRNOG00000014883 hs-mir-138 1896 1903  
AGCUGGUGUUGUGAAUC&GAUUGGGCGUACCUGCUGGGGGUUGAGGGGCUUCUCACCAGCC  
((((((((((...((...(&.....))....)))). -17.50

miRNA: mir-138

Human predicted target: ENSG00000135596  
Mouse predicted target: ENSMUSG00000019823  
Rat predicted target: ENSRNOG00000000307  
Hs Gene description: CASL INTERACTING MOLECULE.  
[Source:SWISSPROT;Acc:Q8TDZ2]

mir-138 ENSG00000135596 2000 nt UTR 4 hits 463 590 1478 1934

-----1-----1-----1-----  
---1--

>ENSG00000135596 hs-mir-138 463 470  
AGCUGGUGUUGUGAAUC&UGUACGUGGAAGAGGUAGAAUGCACCUGCCCACAGCACCCAGCC  
((((((((((...&.....)))))))). -27.10  
>ENSG00000135596 hs-mir-138 590 597  
AGCUGGUGUUGUGAAUC&GCCCCAGGCCAAUCACAUAGCUAGCGAAGGUGGCCACCAGCG  
((((((((((...&.....))))))....)))). -20.31  
>ENSG00000135596 hs-mir-138 1478 1485  
AGCUGGUGUUGUGAAUC&GGGGAACCAGGUUGGUGAGGCGGGAGUUCUCCAUCACCAGCUC  
((((((((((...((...(&.....))....)))). -21.00  
>ENSG00000135596 hs-mir-138 1934 1941  
AGCUGGUGUUGUGAAUC&ACAUAGGCGUUGAGCACCAUGCCACUUGAUGGAGCACCAGCA  
((((((((((...((...(&.....))....)))). -20.60  
mir-138 ENSMUSG00000019823 2140 nt UTR 2 hits 610 1888

-----1-----  
-1-----

>ENSMUSG00000019823 hs-mir-138 610 617  
AGCUGGUGUUGUGAAUC&GCCCCAAACGAUCACAUAGCCAGAGAAUGCAGCCCACCAGCG  
.(((((((.((((.&.....)))))))).(((((((.((((((.....)))))))). -19.71  
>ENSMUSG00000019823 hs-mir-138 1888 1895  
AGCUGGUGUUGUGAAUC&ACGUAGGCAUUGAGCACCAGUCCACUUAGACGGAGCACCAGCA  
.(((((((.((((.&.....)))))))).(((((((.((((((.....)))))))). -23.60  
mir-138 ENSRNOG00000000307 2000 nt UTR 3 hits 609 1035 1881

-----1-----1-----  
-1----

>ENSRNOG00000000307 hs-mir-138 609 616  
AGCUGGUGUUGUGAAUC&GCCCCAAAUCAUCACAUAGCCAAAGAGUGCAGCCCACCAGCG  
.(((((((.((((.&.....)))))))).(((((((.((((((.....)))))))). -20.31  
>ENSRNOG00000000307 hs-mir-138 1035 1042  
AGCUGGUGUUGUGAAUC&GAUCCCAUCCUCUAGCUAUCAGUGGCCCAAGACCGCACCAGCUG  
(((((((.((((.&.....)))))))).(((((((.((((((.....)))))))). -21.70  
>ENSRNOG00000000307 hs-mir-138 1881 1888  
AGCUGGUGUUGUGAAUC&ACGUAGGCGUUGAGCACCAGUCCGCUUAGAUGGAGCACCAGCA  
.(((((((.((((.&.....)))))))).(((((((.((((((.....)))))))). -20.60

miRNA: mir-138  
Human predicted target: ENSG00000169375  
Mouse predicted target: ENSMUSG00000042557  
Rat predicted target: ENSRNOG00000017793  
Hs Gene description: TRANSCRIPTIONAL CO-REPRESSOR SIN3A; TRANSCRIPTIONAL  
REGULATOR, SIN3A (YEAST). [Source:RefSeq;Acc:NM\_015477] NM\_015477  
mir-138 ENSG00000169375 3053 nt UTR 2 hits 295 726

-----1-----1-----  
-----

>ENSG00000169375 hs-mir-138 295 302  
AGCUGGUGUUGUGAAUC&UCCAUGCAAGCAAAGACAUGCAGUUUGCUUGCACACACCAGCA  
.(((((((.((((.&.....)))))))).(((((((.((((((.....)))))))). -23.20  
>ENSG00000169375 hs-mir-138 726 733  
AGCUGGUGUUGUGAAUC&UACUGGCCUCUUUACUAGUCUACCUUAGUGCCAUCCACCAGCUU  
(((((((.((((.&.....)))))))).(((((((.((((((.....)))))))). -18.80  
mir-138 ENSMUSG00000042557 2775 nt UTR 3 hits 146 286 652

-----1-----1-----1-----  
-----

>ENSMUSG00000042557 hs-mir-138 146 153  
AGCUGGUGUUGUGAAUC&AGGAAGAUGCCUUUCAAGCCACCAGUGCAACCAGGCACCAGCA  
.(((((((.((((.&.....)))))))).(((((((.((((((.....)))))))). -21.00  
>ENSMUSG00000042557 hs-mir-138 286 293  
AGCUGGUGUUGUGAAUC&CAUGCAAGCACAGAGACAGGCAGCUUGCUUGCACACACCAGCA  
.(((((((.((((.&.....)))))))).(((((((.((((((.....)))))))). -23.20  
>ENSMUSG00000042557 hs-mir-138 652 659  
AGCUGGUGUUGUGAAUC&UACCUGCUUCUUUACUAGUCUGCCUAGUGCCAUCCACCAGCUU

((((((((((..(((.....&.....)))))))). -18.80  
mir-138 ENSRNOG00000017793 2000 nt UTR 2 hits 285 630  
-----1-----1-----

>ENSRNOG00000017793 hs-mir-138 285 292  
AGCUGGUGUUGUGAAUC&UCCAUGCGAGCAGAGACAGGCAGCUCGCGUGCAUACACCAGCA  
.((((((((((.....&.....)))))))). -22.40  
>ENSRNOG00000017793 hs-mir-138 630 637  
AGCUGGUGUUGUGAAUC&GUACCUGCUUCUUCUAGUCUGCCUAGUGCCAUCCACCAGCUN  
((((((((((..(((.....&.....)))))))). -18.70

miRNA: mir-138  
Human predicted target: ENSG00000173113  
Mouse predicted target: ENSMUSG00000038812  
Mouse predicted target: ENSMUSG00000048651  
Rat predicted target: ENSRNOG00000021132  
Hs Gene description: NM\_016404

mir-138 ENSG00000173113 2170 nt UTR 2 hits 1793 2083  
-----1-----

>ENSG00000173113 hs-mir-138 1793 1800  
AGCUGGUGUUGUGAAUC&UCCUGCAGUGGCAGUGAGCGCUGGGCCACACCCAGCACCAGCA  
.((((((((((.....&.....)))))))). -23.20

>ENSG00000173113 hs-mir-138 2083 2090  
AGCUGGUGUUGUGAAUC&GGGUCAGGCAUGGCAUAGAGCUUCUCAGGCUCAACCACCAGCA  
.((((((((((..(((.....&.....)))))))). -20.70  
mir-138 ENSMUSG00000038812 2165 nt UTR 2 hits 1698 1990  
-----1-----

>ENSMUSG00000038812 hs-mir-138 1698 1705  
AGCUGGUGUUGUGAAUC&UCCUGCAGUGGCAGUGAGCGCUGGGCCACACCCAGCACCAGCA  
.((((((((((.....&.....)))))))). -23.20

>ENSMUSG00000038812 hs-mir-138 1990 1997  
AGCUGGUGUUGUGAAUC&GGGUCAGGCAUGGCGUACAGCUUCUCAGGUUCAACCACCAGCA  
.((((((((((..(((.....&.....)))))))). -23.70  
mir-138 ENSMUSG00000048651 2166 nt UTR 1 hits 1045  
-----1-----

>ENSMUSG00000048651 hs-mir-138 1045 1052  
AGCUGGUGUUGUGAAUC&UGGCAGGGACCGUGAUAAACUCUGGGGAUUCAUUCACACCAGCC  
.((((((((((..(((.....&.....)))))))). -25.50  
mir-138 ENSRNOG00000021132 2174 nt UTR 2 hits 1696 1990  
-----1-----

>ENSRNOG00000021132 hs-mir-138 1696 1703  
AGCUGGUGUUGUGAAUC&UCCUGCAGUGGCAGUGAGCGCUGGGCCACACCCAGCACCAGCA  
.((((((((((.....&.....)))))))). -23.20

>ENSRNOG00000021132 hs-mir-138 1990 1997  
AGCUGGUGUUGUGAAUC&GGGUCAGGCAUGGCGUACAGCUUCUCAGGUUCAACCACCAGCA  
.(((((((...(((((&.....)))))))).))))). -23.70

miRNA: mir-138

Human predicted target: ENSG00000183011  
Mouse predicted target: ENSMUSG00000032731  
Rat predicted target: ENSRNOG00000009823  
Hs Gene description: NM\_032356

mir-138 ENSG00000183011 2046 nt UTR 4 hits 1510 1516 1543 1912  
-----21-----  
--1----

>ENSG00000183011 hs-mir-138 1510 1517  
AGCUGGUGUUGUGAAUC&AGCAUGGUGACAGCGGGUAGCAAGAUGGUCCCUAGCACCAGCA  
.(((((((...(((((&.....)))))))).))))). -21.90

>ENSG00000183011 hs-mir-138 1516 1523  
AGCUGGUGUUGUGAAUC&GUGACAGCGGGUAGCAAGAUGGUCCCUAGCACCAGCACCAGCA  
.(((((((...&.....)))))))). -24.10

>ENSG00000183011 hs-mir-138 1543 1550  
AGCUGGUGUUGUGAAUC&AGCACCAGCACCAGCAGGAGAAGAUUGAAGGCAGCCACCAGCA  
.(((((((...(((((&.....)))))))).))))). -20.90

>ENSG00000183011 hs-mir-138 1912 1919  
AGCUGGUGUUGUGAAUC&CGGUCUUGCAGCCUCCCGGUACUCAACCUGCUACCACCAGCC  
.(((((((...(((((&.....)))))))).))))). -17.50

mir-138 ENSMUSG00000032731 2042 nt UTR 2 hits 693 1480  
-----1-----  
-----

>ENSMUSG00000032731 hs-mir-138 693 700  
AGCUGGUGUUGUGAAUC&CCUGUCCCUAGUCCUGUAAAUUUUGGAGGAGCUGCACCAGCA  
.(((((((...(((((&.....)))))))).))))). -22.20

>ENSMUSG00000032731 hs-mir-138 1480 1487  
AGCUGGUGUUGUGAAUC&AGCACCAGUGCCAGCAAGAGGAGAUUGAAAACAGCCACCAGCA  
.(((((((...(((((&.....)))))))).))))). -21.70

mir-138 ENSRNOG00000009823 2042 nt UTR 2 hits 1429 1462  
-----11-----  
-----

>ENSRNOG00000009823 hs-mir-138 1429 1436  
AGCUGGUGUUGUGAAUC&ACAUGGUGACAGCAGGUAGCAAGAUGGUCCCCAGCACCAGCG  
.(((((((...(((((&.....)))))))).))))). -23.60

>ENSRNOG00000009823 hs-mir-138 1462 1469  
AGCUGGUGUUGUGAAUC&AGCACCAGCGCCAACAAGAGGAGAUUGAAAACAGCCACCAGCA  
.(((((((...(((((&.....)))))))).))))). -21.70

miRNA: mir-140

Human predicted target: ENSG00000067798  
Mouse predicted target: ENSMUSG00000020181

Rat predicted target: ENSRNOG00000006682  
Hs Gene description: NEURON NAVIGATOR 3; PORE MEMBRANE AND/OR FILAMENT INTERACTING LIKE PROTEIN 1; STEERIN 3. [Source:RefSeq;Acc:NM\_014903]

mir-140 ENSG00000067798 2000 nt UTR 2 hits 70 687

--1-----1-----  
-----

>ENSG00000067798 hs-mir-140 70 77  
AGUGGUUUUACCCUAUGGUAG&UUAAAAAUGUUUCAAAAGAAAGGUUUUUUCACUAAACCACUG  
((((((((((((.....&.....)))))).....))))). -16.00

>ENSG00000067798 hs-mir-140 687 694  
AGUGGUUUUACCCUAUGGUAG&UUUUUAUAAGGUUGUUUUUACCACAGUGGUCUUUUUAAACCACC  
((((((((((((.....&.....)))))).....))))). -21.80

mir-140 ENSMUSG00000020181 2000 nt UTR 2 hits 68 711

--1-----1-----  
-----

>ENSMUSG00000020181 hs-mir-140 68 75  
AGUGGUUUUACCCUAUGGUAG&UUCAAAAGGUGUUUUAAAAGACAGGUUUUUGUCACUAAACCACUG  
((((((((((((.....&.....)))))).....))))). -16.00

>ENSMUSG00000020181 hs-mir-140 711 718  
AGUGGUUUUACCCUAUGGUAG&UUUUUAUAAGGUUGUUUUUACCACAGUGGUCUUUUCAAACCACC  
((((((((((((.....&.....)))))).....))))). -21.10

mir-140 ENSRNOG00000006682 2000 nt UTR 2 hits 70 701

--1-----1-----  
-----

>ENSRNOG00000006682 hs-mir-140 70 77  
AGUGGUUUUACCCUAUGGUAG&UUUCAAAAGGUGUUUUAAAAGACAGGUUUUUGUCACUAAACCACUG  
((((((((((((.....&.....)))))).....))))). -16.00

>ENSRNOG00000006682 hs-mir-140 701 708  
AGUGGUUUUACCCUAUGGUAG&UUUUUAUAAGGUUGUUUUUACCACAGUGGUCUUUUCAAACCACC  
((((((((((((.....&.....)))))).....))))). -21.10

miRNA: mir-140

Human predicted target: ENSG00000119906  
Mouse predicted target: ENSMUSG00000036097  
Rat predicted target: ENSRNOG00000014489  
Hs Gene description: C10ORF6. [Source:RefSeq;Acc:NM\_018121] NM\_144592

mir-140 ENSG00000119906 2862 nt UTR 2 hits 531 1933

-----1-----  
---1-----

>ENSG00000119906 hs-mir-140 531 538  
AGUGGUUUUACCCUAUGGUAG&UAAUAAAAGCAUAAAUCUCUUCUGUAACUUUUUAAACCACA  
((((((((.....((((((&.....)))))).....))))). -14.12

>ENSG00000119906 hs-mir-140 1933 1940  
AGUGGUUUUACCCUAUGGUAG&UUGCAGUUUCAACAGAUAAACUGUCCAUCAAAUUUAAAACCACUU  
((((((((((((.....((((((&.....)))))).....))))). -19.40

mir-140 ENSMUSG00000036097 4668 nt UTR 2 hits 981 1903

-----1-----  
--1-----  
-----

>ENSMUSG00000036097 hs-mir-140 981 988  
AGUGGUUUUACCCUAUGGUAG&CACUCAAGUUUGUAUCUUGAAGUUGUUGCACUUGAAAACCACA  
.((((((((.....(((&.....)))))).....))))). -15.42  
>ENSMUSG00000036097 hs-mir-140 1903 1910  
AGUGGUUUUACCCUAUGGUAG&UUGCAGUUUCAACCAAUAACCACCCAUCAAAUUUAAAACCACUU  
((((((((.....(((&.....)))))).....))))). -18.00  
mir-140 ENSRNOG00000014489 4549 nt UTR 2 hits 869 1786  
-----1-----1-----

-----  
>ENSRNOG00000014489 hs-mir-140 869 876  
AGUGGUUUUACCCUAUGGUAG&CACUCAAGUCUGUAUCUUGAAGUUGUUGCACUUGAAAACCACA  
.((((((((.....(((&.....)))))).....))))). -15.42  
>ENSRNOG00000014489 hs-mir-140 1786 1793  
AGUGGUUUUACCCUAUGGUAG&UUGCAGUUUCAACCAAUAACCACCCAUCAAAUUUAAAACCACUU  
((((((((.....(((&.....)))))).....))))). -18.00

miRNA: mir-140  
Human predicted target: ENSG00000126562  
Mouse predicted target: ENSMUSG00000035112  
Rat predicted target: ENSRNOG00000020476  
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  
-----1-----1-----

-----  
>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&CCCCUUAACAUGGGCCCCUGGGAGGUGAAGAGGUAAACCACA  
.((((((((((((((..((..&.....))))).))))).))))). -19.81  
>ENSRNOG00000020476 hs-mir-140 1534 1541  
AGUGGUUUUACCCUAUGGUAG&UAGAAGGUGUAACCAUCUGGCGGGGUGGGUUCAGGAAACCACA  
.((((((((((((((((((..&.....))))).))))).))))). -24.20

miRNA: mir-140

Human predicted target: ENSG00000143816  
Mouse predicted target: ENSMUSG00000000126  
Rat predicted target: ENSRNOG00000003066  
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&GGCUGCCCCAACACCAGCACUGUCUUCAGAGACUCAAACCACUA  
((((((((((..((..(((((&..))))).))))).))))). -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

miRNA: mir-140

Human predicted target: ENSG00000149489  
Mouse predicted target: ENSMUSG00000003675  
Rat predicted target: ENSRNOG00000019858

Hs Gene description: ROD OUTER SEGMENT MEMBRANE PROTEIN 1 (ROSP1).

[Source:SWISSPROT;Acc:Q03395] NM\_000327

mir-140 ENSG00000149489 2281 nt UTR 2 hits 780 1578

-----1-----1-----

>ENSG00000149489 hs-mir-140 780 787
AGUGGUUUUACCCUAUGGUAG&GGGGCCACUUCUGGCUCCAAGGGUCAGGACUUGGAAAACCACA
(((((((((((((((((.....)))))))))))))).....)))))))). -22.80

>ENSG00000149489 hs-mir-140 1578 1585
AGUGGUUUUACCCUAUGGUAG&AGGCUGAUCAGAGAUCUGGAGAGUCCCUCCUGGUUAAACCACC
(((((((((((((((((.....)))))))))))))).....)))))))). -18.90

mir-140 ENSMUSG00000003675 2277 nt UTR 2 hits 173 753

-----1-----1-----

>ENSMUSG00000003675 hs-mir-140 173 180
AGUGGUUUUACCCUAUGGUAG&AGUCCAGGUGUCCUGGAACCCAGCUGUCUCGUUGGAAACCACC
(((((((((((((((((.....)))))))))))))).....)))))))). -16.22

>ENSMUSG00000003675 hs-mir-140 753 760
AGUGGUUUUACCCUAUGGUAG&GCCUCUGGUUCUCAGGGGUCAGGUCUUUAAAAAAAAAACCACA
(((((((((((((((((.....)))))))))))))).....)))))))). -19.56

mir-140 ENSRNOG00000019858 2206 nt UTR 2 hits 88 295

-----1-----1-----

>ENSRNOG00000019858 hs-mir-140 88 95
AGUGGUUUUACCCUAUGGUAG&GAGAACUCAGAAUCCUUUACUCAGGCUCAGGGAAAAAACCACC
(((((((((((((((((.....)))))))))))))).....)))))))). -20.10

>ENSRNOG00000019858 hs-mir-140 295 302
AGUGGUUUUACCCUAUGGUAG&AGGUCCAGUGUCCUGAAGCCAGCCAUUGCGGUCAAACCACC
(((((((((((((((((.....)))))))))))))).....)))))))). -24.40

miRNA: mir-141

Human predicted target: ENSG00000003137

Mouse predicted target: ENSMUSG000000030015

Rat predicted target: ENSRNOG00000015076

Hs Gene description: CYTOCHROME P450 26A2 (EC 1.14.--) (P450RAI-2)
(RETINOIC-ACID METABOLIZING CYTOCHROME). [Source:SWISSPROT;Acc:Q9NR63]

NM\_019885

mir-141 ENSG00000003137 2000 nt UTR 3 hits 276 301 1869

-----1-----1-----

1-----
>ENSG00000003137 hs-mir-141 276 283
AACACUGUCUGGUAAAGAUGG&UGGGAAGGGCGUGGCAGGGGCUCUGCAUGCCCGUGACAGUGUUA
(((((((((((((((((.....)))))))))))))).....)))))))). -22.90

>ENSG00000003137 hs-mir-141 301 308
AACACUGUCUGGUAAAGAUGG&CAUGCCCGUGACAGUGUUAGGUGUCAGCGGUGCUACAGUGUUU
(((((((((((((((((.....)))))))))))))).....)))))))). -16.60
>ENSG00000003137 hs-mir-141 1869 1876



AACACUGUCUGGUAAGAUGG&UAGGAAUUAUUCAGUCACCUACUUGAAGUUUUGGACAGUGUUC  
((((((((((..((((((..((&.....)))))).....)))))))). -21.60  
>ENSMUSG00000042215 hs-mir-141 488 495  
AACACUGUCUGGUAAGAUGG&ACACCGCAGUGUGAACAGAACACCCAGCCCCUGGAACAGUGUA  
((((((((((..((((((..((&.....)))))).....)))))))). -18.80  
>ENSMUSG00000042215 hs-mir-141 641 648  
AACACUGUCUGGUAAGAUGG&GAUCACUCAGCCCUUGAGCAGUGCACUCACAGCACACAGUGUA  
((((((((((..((((((..((&.....)))))).....)))))))). -15.03  
mir-141 ENSRNOG00000012709 2000 nt UTR 3 hits 174 382 430

-----1-----1-1-----  
-----  
>ENSRNOG00000012709 hs-mir-141 174 181  
AACACUGUCUGGUAAGAUGG&UAGGAAUUAUUCAGUCACCUACUUGAGGUUUUGGACAGUGUUC  
((((((((((..((((((..((&.....)))))).....)))))))). -21.60  
>ENSRNOG00000012709 hs-mir-141 382 389  
AACACUGUCUGGUAAGAUGG&AGAGCACCCAGUCCUGGGGCAGUGCACUCACCCACAGUGUG  
((((((((((..((((((..((&.....)))))).....)))))))). -17.20  
>ENSRNOG00000012709 hs-mir-141 430 437  
AACACUGUCUGGUAAGAUGG&AGCACCCAGCCCUUGAGGGGUGCAGUUACGCCACACAGUGUG  
((((((((((..((((((..((&.....)))))).....)))))))). -20.10

miRNA: mir-141  
Human predicted target: ENSG00000126740  
Mouse predicted target: ENSMUSG00000004264  
Rat predicted target: ENSRNOG00000012999  
Hs Gene description: REPRESSOR OF ESTROGEN RECEPTOR ACTIVITY; B-CELL  
ASSOCIATED PROTEIN. [Source:RefSeq;Acc:NM\_007273] NM\_007273  
mir-141 ENSG00000126740 2326 nt UTR 2 hits 250 1522

-----1-----1-----  
-----  
>ENSG00000126740 hs-mir-141 250 257  
AACACUGUCUGGUAAGAUGG&GUUGGGGACAGUGCGUGAUUUCUCAGUGAUUCCUACAGUGUUG  
((((((((((..((((((..((&.....)))))).....)))))))). -16.60  
>ENSG00000126740 hs-mir-141 1522 1529  
AACACUGUCUGGUAAGAUGG&GCCGAGAGAACCACCCGGGAGCCAUCUUUACCAGACAGUGUUA  
((((((((((..((((((..((&.....)))))).....)))))))). -40.40  
mir-141 ENSMUSG00000004264 2086 nt UTR 1 hits 1071

-----1-----  
-----  
>ENSMUSG00000004264 hs-mir-141 1071 1078  
AACACUGUCUGGUAAGAUGG&GCUGAAGGAACUGACCCGGGGCCAUCUUUACCAGACAGUGUUA  
((((((((((..((((((..((&.....)))))).....)))))))). -40.40  
mir-141 ENSRNOG00000012999 2000 nt UTR 2 hits 820 1927

-----1-----  
-----1-----  
>ENSRNOG00000012999 hs-mir-141 820 827  
AACACUGUCUGGUAAGAUGG&UUCUUGUAUUGGCUGGGGAAGGGGGGGGACAGGAGACAGUGUG

.(((((((((. . . . .&. . . . .)))))))). -18.50  
>ENSRNOG00000012999 hs-mir-141 1927 1934  
AACACUGUCUGGUAAGAUGG&GCUGAGGGAACUGACCCGGGGCCAUCUUUACCAGACAGUGUUA  
(((((((((. . . . .&. . . . .)))))))). -40.40

miRNA: mir-141

Human predicted target: ENSG00000148516

Mouse predicted target: ENSMUSG00000024238

Rat predicted target: ENSRNOG00000017863

Hs Gene description: TRANSCRIPTION FACTOR 8 (NIL-2-A ZINC FINGER PROTEIN)  
(NEGATIVE REGULATOR OF IL2). [Source:SWISSPROT;Acc:P37275] NM\_030751

mir-141 ENSG00000148516 3932 nt UTR 3 hits 1407 1532 1772

-----1-----1-----1-----  
-----  
-----

>ENSG00000148516 hs-mir-141 1407 1414  
AACACUGUCUGGUAAGAUGG&UAUGUGUCUUUUUUUAUAUUUCUUUAUUUAUUACACAGUGUA  
.(((((((((. . . . .&. . . . .)))))))). -18.30

>ENSG00000148516 hs-mir-141 1532 1539  
AACACUGUCUGGUAAGAUGG&AUGCAAUUGGUUCUCCUGCAUUGAGAUUUGAUUUAAACAGUGUUA  
(((((((((. . . . .&. . . . .)))))))). -16.10

>ENSG00000148516 hs-mir-141 1772 1779  
AACACUGUCUGGUAAGAUGG&UCCUUAGUAAGCCAAAUUAGGAUUAACUUCUAUAAACAGUGUUG  
(((((((((. . . . .&. . . . .)))))))). -15.80

mir-141 ENSMUSG00000024238 3845 nt UTR 4 hits 1318 1443 1684 3770  
-----1-----1-----1-----  
-----

--1---  
>ENSMUSG00000024238 hs-mir-141 1318 1325  
AACACUGUCUGGUAAGAUGG&UAUGUGUCUUUUUUUAUAUUUCUUUAUUUAUUACACAGUGUA  
.(((((((((. . . . .&. . . . .)))))))). -18.30

>ENSMUSG00000024238 hs-mir-141 1443 1450  
AACACUGUCUGGUAAGAUGG&AUGCAGUUGGUUCCCGUGCGUUGAGAUUUGAUUUAAACAGUGUUC  
(((((((((. . . . .&. . . . .)))))))). -14.44

>ENSMUSG00000024238 hs-mir-141 1684 1691  
AACACUGUCUGGUAAGAUGG&CCCUUAGCAAGCCAAAUUAGAAUUGCCUUCUGUAAACAGUGUUG  
(((((((((. . . . .&. . . . .)))))))). -16.90

>ENSMUSG00000024238 hs-mir-141 3770 3777  
AACACUGUCUGGUAAGAUGG&UAGUAUAAAGUUAAGUGAUUAUGUACAAGAGAAGGCACAGUGUUA  
(((((((((. . . . .&. . . . .)))))))). -15.20

mir-141 ENSRNOG00000017863 3802 nt UTR 6 hits 1280 1405 1639 2991  
3116 3350  
-----1-----1-----1-----  
-----1-----1-----1-----  
-----

>ENSRNOG00000017863 hs-mir-141 1280 1287  
AACACUGUCUGGUAAGAUGG&UAUGUGUCUUUUUUUAUAUUUCUUUAUUUAUUACACAGUGUA

.(((((((.(((((((...((&.....))...)))))))). -18.30  
>ENSRNOG00000017863 hs-mir-141 1405 1412  
AACACUGUCUGGUAAGAUGG&AUGCAAUUGGUUCUCGUGCAUUGAGAUUUGAUUUUAACAGUGUUC  
(((((((.(((((((...((&.....))...)))))))). -15.50  
>ENSRNOG00000017863 hs-mir-141 1639 1646  
AACACUGUCUGGUAAGAUGG&CCCUUAGCAAGCCAAAUUAGAAUUGCCUUCUGUAAACAGUGUUG  
(((((((.(((((((...((&.....))...)))))))). -16.90  
>ENSRNOG00000017863 hs-mir-141 2991 2998  
AACACUGUCUGGUAAGAUGG&UAUGUGUCUUAUUUUUAUUAUUCUUAUUUAUUACACAGUGUA  
.(((((((.(((((((...((&.....))...)))))))). -18.30  
>ENSRNOG00000017863 hs-mir-141 3116 3123  
AACACUGUCUGGUAAGAUGG&AUGCAAUUGGUUCUCGUGCAUUGAGAUUUGAUUUUAACAGUGUUC  
(((((((.(((((((...((&.....))...)))))))). -15.50  
>ENSRNOG00000017863 hs-mir-141 3350 3357  
AACACUGUCUGGUAAGAUGG&CCCUUAGCAAGCCAAAUUAGAAUUGCCUUCUGUAAACAGUGUUG  
(((((((.(((((((...((&.....))...)))))))). -16.90

miRNA: mir-141

Human predicted target: ENSG00000168675

Mouse predicted target: ENSMUSG00000024544

Rat predicted target: ENSRNOG00000016879

Hs Gene description: PROTEIN C18ORF1. [Source:SWISSPROT;Acc:O15165]

mir-141 ENSG00000168675 9097 nt UTR 2 hits 72 210

--1-----1-----  
-----  
-----  
-----

>ENSG00000168675 hs-mir-141 72 79  
AACACUGUCUGGUAAGAUGG&CAAGAAGGGAAGCGGCCCGUGGGCCCCUCCUGCGCACAGUGUUG  
(((((((.(((((((...((&.....))...)))))))). -18.40

>ENSG00000168675 hs-mir-141 210 217  
AACACUGUCUGGUAAGAUGG&GAAAUUGAUACAAACUCCAUUCUGGUCUGACCGCAAACAGUGUUU  
(((((((.(((((((...((&.....))...)))))))). -23.80

mir-141 ENSMUSG00000024544 2418 nt UTR 2 hits 74 213

--1-----1-----  
-----

>ENSMUSG00000024544 hs-mir-141 74 81  
AACACUGUCUGGUAAGAUGG&CGGCAGGGAGAGAGAGGCCCGUGGCCCCACUGCCACAGUGUUG  
(((((((.(((((((...((&.....))...)))))))). -18.90

>ENSMUSG00000024544 hs-mir-141 213 220  
AACACUGUCUGGUAAGAUGG&AACACGAUUCAAACUCCAUCCAGUUUGACCACAGACAGUGUUC  
(((((((.(((((((...((&.....))...)))))))). -26.30

mir-141 ENSRNOG00000016879 2417 nt UTR 4 hits 78 219 600 2180

---1---1-----1-----  
-----1-----

>ENSRNOG00000016879 hs-mir-141 78 85

AACACUGUCUGGUAAGAUGG&GGCAGGGAGAGAGAGGGCCCGCUGGCCCCACUGCCACAGUGUUG  
((((((((((..(((..(((&.....))))))))))))). -18.90  
>ENSRNOG00000016879 hs-mir-141 219 226  
AACACUGUCUGGUAAGAUGG&AACACAAUACAAACUCCAUCGCGUUUGACCACAAACAGUGUUC  
((((((((((..(((..(((&.....))))))))))))). -21.80  
>ENSRNOG00000016879 hs-mir-141 600 607  
AACACUGUCUGGUAAGAUGG&AACACAAUACAAACUCCAUCGCGUUUGACCACAAACAGUGUUC  
((((((((((..(((..(((&.....))))))))))))). -21.80  
>ENSRNOG00000016879 hs-mir-141 2180 2187  
AACACUGUCUGGUAAGAUGG&UGAGAUUUGAAAUCUCAUUGGAUUUAUCCGUAUUACAGUGUUG  
((((((((((..(((..(((&.....))))))))))))). -19.20

miRNA: mir-142as

Human predicted target: ENSG00000142178

Mouse predicted target: ENSMUSG00000024042

Rat predicted target: ENSRNOG00000001189

Hs Gene description: PROBABLE SERINE/THREONINE PROTEIN KINASE SNF1LK (EC 2.7.1.-). [Source:SWISSPROT;Acc:P57059] NM\_173354

mir-142as ENSG00000142178 4227 nt UTR 2 hits 1085 2073

-----1-----  
-----1-----  
-----

>ENSG00000142178 hs-mir-142as 1085 1092  
UGUAGUGUUUCCUACUUUAUGG&AAUCCUGUAUAUGUAUCAUGGGAGACAGGUAGACACUACU  
.((((((((((..(((..(((&.....))))))))))))). -22.30

>ENSG00000142178 hs-mir-142as 2073 2080  
UGUAGUGUUUCCUACUUUAUGG&GUAUACAGACGGCAAUGCAAUAGCCUAUUUAAAGACACUACGU  
((((((((((..(((..(((&.....))))))))))))). -15.40

mir-142as ENSMUSG00000024042 3967 nt UTR 3 hits 954 1781 2720  
-----1-----1-----  
-----1-----

>ENSMUSG00000024042 hs-mir-142as 954 961  
UGUAGUGUUUCCUACUUUAUGG&AGCAAUACUGUAUGUGUAUUAUAAUAGGAAACAGACACUACU  
.((((((((((..(((..(((&.....))))))))))))). -20.90

>ENSMUSG00000024042 hs-mir-142as 1781 1788  
UGUAGUGUUUCCUACUUUAUGG&CUGGACUGGACUGUAAUGGAAUCGCCUAUUUAAAGACACUACGU  
((((((((((..(((..(((&.....))))))))))))). -16.33

>ENSMUSG00000024042 hs-mir-142as 2720 2727  
UGUAGUGUUUCCUACUUUAUGG&CUGGACUGGACUGUAAUGGAAUCGCCUAUUUAAAGACACUACGU  
((((((((((..(((..(((&.....))))))))))))). -16.33

mir-142as ENSRNOG00000001189 3642 nt UTR 6 hits 1064 1094 1456 2570  
2600 3443  
-----11-----1-----  
-----11-----1-----

>ENSRNOG00000001189 hs-mir-142as 1064 1071  
UGUAGUGUUUCCUACUUUAUGG&UAAGUCAGUGUUUGUAAAGUUUCUUUUAAAGCAAACACUACAC

(((((((((((((..(&.....)..)))))).....)).)))))))). -20.70  
>ENSRNOG00000001189 hs-mir-142as 1094 1101  
UGUAGUGUUUCCUACUUUAUGG&AGCAAACACUACACAUGUAUUAUUAAUAGGAGACAGACACUACU  
..(((((((((((((..(&.....)..)))))).....)).)))))))). -20.90  
>ENSRNOG00000001189 hs-mir-142as 1456 1463  
UGUAGUGUUUCCUACUUUAUGG&CUGUGCUGGGCUGUAAUGGGAUCGCCUAUUUAAAGACACUACC  
..(((((((((((((..(&.....)..)))))).....)).)))))))). -17.31  
>ENSRNOG00000001189 hs-mir-142as 2570 2577  
UGUAGUGUUUCCUACUUUAUGG&UAAGUCAGUGUUUGUAAAGUUUCUUUUAAAGCAAACACUACAC  
(((((((((((((..(&.....)..)))))).....)).)))))))). -20.70  
>ENSRNOG00000001189 hs-mir-142as 2600 2607  
UGUAGUGUUUCCUACUUUAUGG&AGCAAACACUACACAUGUAUUAUUAAUAGGAGACAGACACUACU  
..(((((((((((((..(&.....)..)))))).....)).)))))))). -20.90  
>ENSRNOG00000001189 hs-mir-142as 3443 3450  
UGUAGUGUUUCCUACUUUAUGG&CUGUGCUGGGCUGUAAUGGGAUCGCCUAUUUAAAGACACUACC  
..(((((((((((((..(&.....)..)))))).....)).)))))))). -17.31

miRNA: mir-142s

Human predicted target: ENSG00000125798

Mouse predicted target: ENSMUSG00000037025

Rat predicted target: ENSRNOG00000013133

Hs Gene description: HEPATOCYTE NUCLEAR FACTOR 3-BETA (HNF-3B) (FORKHEAD BOX PROTEIN A2). [Source:SWISSPROT;Acc:Q9Y261] NM\_021784

mir-142s ENSG00000125798 2665 nt UTR 3 hits 565 587 1067

-----11-----1-----

>ENSG00000125798 hs-mir-142s 565 572  
CCCAUAAAGUAGAAAGCACUAC&UGACACGGUGAAAUCCAGGUCUCGGGUCCGAUUAAUUUAUGGU  
..(((((((((((((..(&.....)..)))))).....)).)))))))). -12.60

>ENSG00000125798 hs-mir-142s 587 594  
CCCAUAAAGUAGAAAGCACUAC&CGGGUCCGAUUAAUUUAUGGUUUCUGCGUGCUUUUUUAUGGC  
..(((((((((((((..(&.....)..)))))).....)).)))))))). -20.90

>ENSG00000125798 hs-mir-142s 1067 1074  
CCCAUAAAGUAGAAAGCACUAC&UAAAGCAAGCACAUAUUAAAUGGAACUUGUAUGGUUUUAUGGU  
..(((((((((((((..(&.....)..)))))).....)).)))))))). -15.60

mir-142s ENSMUSG00000037025 2591 nt UTR 2 hits 536 558

-----11-----1-----

>ENSMUSG00000037025 hs-mir-142s 536 543  
CCCAUAAAGUAGAAAGCACUAC&GACAUGGUGAAAUCCAGGUCUCGGGUCUGAUUUAAUUUAUGGU  
..(((((((((((((..(&.....)..)))))).....)).)))))))). -15.11

>ENSMUSG00000037025 hs-mir-142s 558 565  
CCCAUAAAGUAGAAAGCACUAC&GGGUCUGAUUUAAUUUAUGGUUUCUGCGUGCUUUUUUAUGGC  
..(((((((((((((..(&.....)..)))))).....)).)))))))). -20.90

mir-142s ENSRNOG00000013133 2650 nt UTR 4 hits 558 580 784 1438

-----11-----1-----1-----



```

>ENSRNOG00000013133 hs-mir-142s      558      565
CCCAUAAAGUAGAAAGCACUAC&GACAUGGUGAAAUCCAGGUCUCGGGUCUGAUUUAAUUUAUGGU
.(((((((((((((...((((&...)))))).....)))))))). -15.11
>ENSRNOG00000013133 hs-mir-142s      580      587
CCCAUAAAGUAGAAAGCACUAC&GGGUCUGAUUUAAUUUAUGGUUUCUGCGUGCUUUUUUAUGGC
.(((((((((((((...((((&...)))))).....)))))))). -20.90
>ENSRNOG00000013133 hs-mir-142s      784      791
CCCAUAAAGUAGAAAGCACUAC&AUGGGAGAGAGCAGUGGGAGUUCUUUUUGAGGGGGUUUAUGGGG
(((((((((((((...((((&...)))))).....)))))))). -18.90
>ENSRNOG00000013133 hs-mir-142s     1438     1445
CCCAUAAAGUAGAAAGCACUAC&GUCAGUGAGCCAAGUCUGGAUUUACCAUUUUUGGGUUUAUGGC
.(((((((((((((...((((&...)))))).....)))))))). -13.35

```

miRNA: mir-142s

Human predicted target: ENSG00000147654

Mouse predicted target: ENSMUSG00000022339

Rat predicted target: ENSRNOG00000004220

Hs Gene description: RECEPTOR-BINDING CANCER ANTIGEN EXPRESSED ON SISO CELLS (CANCER ASSOCIATED SURFACE ANTIGEN RCAS1) (ESTROGEN RECEPTOR-BINDING FRAGMENT-ASSOCIATED GENE 9 PROTEIN). [Source:SWISSPROT;Acc:000559]

NM\_004215

mir-142s ENSG00000147654 3437 nt UTR 2 hits 327 1898

```

-----1-----
-1-----

```

```

>ENSG00000147654 hs-mir-142s      327      334
CCCAUAAAGUAGAAAGCACUAC&UAGUGUUUCUAGCUAAAUAUAAUUGGGUGUAUAUAAUUUUUAUGGU
.(((((((((((((...((((&...)))))).....)))))))). -18.10

```

```

>ENSG00000147654 hs-mir-142s     1898     1905
CCCAUAAAGUAGAAAGCACUAC&UUCAUGGUAGCAUACUGUCUCUUUUAGCUACUAAAUUUAUGGU
.(((((((((((((...((((&...)))))).....)))))))). -14.21

```

mir-142s ENSMUSG00000022339 2602 nt UTR 2 hits 336 1032

```

-----1-----1-----

```

```

>ENSMUSG00000022339 hs-mir-142s      336      343
CCCAUAAAGUAGAAAGCACUAC&UAGUGUUUCUAGCUGAAUAAAUGGCUGUAAAUAUAAUUUUUAUGGU
.(((((((((((((...((((&...)))))).....)))))))). -18.10

```

```

>ENSMUSG00000022339 hs-mir-142s     1032     1039
CCCAUAAAGUAGAAAGCACUAC&AUUGGUUGAUUUAAAGAAAUAUUGCAUAUUGUGUUUUUAUGGA
.(((((((((((((...((((&...)))))).....)))))))). -14.90

```

mir-142s ENSRNOG00000004220 2000 nt UTR 2 hits 337 1017

```

-----1-----1-----

```

```

>ENSRNOG00000004220 hs-mir-142s      337      344
CCCAUAAAGUAGAAAGCACUAC&UAGUUUUUCUAGCUGAAUAAAUGGGUGUAAAUAUAAUUUUUAUGGU
.(((((((((((((...((((&...)))))).....)))))))). -18.10

```

```

>ENSRNOG00000004220 hs-mir-142s     1017     1024
CCCAUAAAGUAGAAAGCACUAC&GUUGAUUUGUUUAAAGAAAUAUUGCAUAUUGUAUUUUUAUGGGG

```

(((((((((((((((((.....&.....))))).))).....)). -21.10

miRNA: mir-143

Human predicted target: ENSG00000105090

Mouse predicted target: ENSMUSG00000030731

Rat predicted target: ENSRNOG00000019318

Hs Gene description: SYNAPTOTAGMIN III (SYTIII).

[Source:SWISSPROT;Acc:Q9BQG1] NM\_032298

mir-143 ENSG00000105090 2508 nt UTR 2 hits 73 783

--1-----1-----

>ENSG00000105090 hs-mir-143 73 80  
UGAGAUGAAGCACUGUAGCUCA&UCAGGACCCCAUCCUUCUGCCCGACCGUGAAUUCaucucc  
.(((((((((((((.....&.....))))).))).....)). -19.50

>ENSG00000105090 hs-mir-143 783 790  
UGAGAUGAAGCACUGUAGCUCA&UCAGGACCCCAUCCUUCUGCCCGACCGUGAAUUCaucucc  
.(((((((((((((.....&.....))))).))).....)). -19.50

mir-143 ENSMUSG00000030731 2496 nt UTR 2 hits 71 1197

--1-----1-----

>ENSMUSG00000030731 hs-mir-143 71 78  
UGAGAUGAAGCACUGUAGCUCA&CUCAGGACCCAUCCUUCUGCCCGACUGUGAACUCAUCUCUCG  
.(((((((((((((.....&.....))))).))).....)). -19.20

>ENSMUSG00000030731 hs-mir-143 1197 1204  
UGAGAUGAAGCACUGUAGCUCA&UUGACAAGUCUGAUUAGCGUGCUAUAGGACCCUCCUCAUCUCUCG  
.(((((((((((((.....&.....))))).))).....)). -23.30

mir-143 ENSRNOG00000019318 2496 nt UTR 2 hits 74 644

--1-----1-----

>ENSRNOG00000019318 hs-mir-143 74 81  
UGAGAUGAAGCACUGUAGCUCA&CUCAGGACCCAUCCUUCUGCCCGACUGUGAACUCAUCUCGCA  
(((((((((((((.....&.....))))).))).....)). -20.10

>ENSRNOG00000019318 hs-mir-143 644 651  
UGAGAUGAAGCACUGUAGCUCA&UACAGAUGGAAAUCAAAACAGAUUUCGACUGUUUCAUCUCUCU  
.(((((((((((((.....&.....))))).))).....)). -21.36

miRNA: mir-143

Human predicted target: ENSG00000166484

Mouse predicted target: ENSMUSG00000001034

Rat predicted target: ENSRNOG00000002412

Hs Gene description: MITOGEN-ACTIVATED PROTEIN KINASE 7 (EC 2.7.1.-)  
(EXTRACELLULAR SIGNAL- REGULATED KINASE 5) (ERK-5) (ERK4) (BMK1 KINASE).

[Source:SWISSPROT;Acc:Q13164] NM\_139032

mir-143 ENSG00000166484 2313 nt UTR 2 hits 120 1248

-----1-----1-----

-----

>ENSG00000166484 hs-mir-143 120 127  
UGAGAUGAAGCACUGUAGCUCA&AGCAGGUGAGGCUCGGCUUGGAUUUUCUGCAGGUUCAUCUCAG  
(((((((((((((..(((((((((&.....))))))))).....)))))))). -24.32  
>ENSG00000166484 hs-mir-143 1248 1255  
UGAGAUGAAGCACUGUAGCUCA&CCUGAGGGGGCCAGCCCUUCAGGCCCGGCGGAUUUUCUCUCAG  
(((((((((((((..(((((((((&.....))))))))).....)))))))). -23.10  
mir-143 ENSMUSG00000001034 2301 nt UTR 2 hits 122 1136  
-----1-----1-----

>ENSMUSG00000001034 hs-mir-143 122 129  
UGAGAUGAAGCACUGUAGCUCA&GGCAGGUGAGGCUCGGCUUGAGUUACUCUGCAGGUUCAUCUCAG  
(((((((((((((..(((((((((&.....))))))))).....)))))))). -29.60  
>ENSMUSG00000001034 hs-mir-143 1136 1143  
UGAGAUGAAGCACUGUAGCUCA&CCUGCUUGGGCCAGCCCCUCAGGCCCGACGAAUUUUCUCUCC  
(((((((((((((..(((((((((&.....))))))))).....)))))))). -18.13  
mir-143 ENSRNOG00000002412 2302 nt UTR 2 hits 123 1126  
-----1-----1-----

>ENSRNOG00000002412 hs-mir-143 123 130  
UGAGAUGAAGCACUGUAGCUCA&GGCAGGUGAGGCUCAGCUUGAGUUACUCUGCAGGUUCAUCUCAG  
(((((((((((((..(((((((((&.....))))))))).....)))))))). -29.60  
>ENSRNOG00000002412 hs-mir-143 1126 1133  
UGAGAUGAAGCACUGUAGCUCA&CCUGCUUGGGCCAGCCCUUCAGGCACGACGAAUUUUCUCUCAG  
(((((((((((((..(((((((((&.....))))))))).....)))))))). -19.73

miRNA: mir-143

Human predicted target: ENSG00000183755  
Mouse predicted target: ENSMUSG00000047107  
Rat predicted target: ENSRNOG00000016877

mir-143 ENSG00000183755 2000 nt UTR 3 hits 473 1757 1959  
-----1-----1-----  
-----1-----  
>ENSG00000183755 hs-mir-143 473 480  
UGAGAUGAAGCACUGUAGCUCA&GGUGUCACUGCAGAGACAAUCUCACCUGGAUGAUGUCAUCUCU  
(((((((((((((..(((((((((&.....))))))))).....)))))))). -19.72  
>ENSG00000183755 hs-mir-143 1757 1764  
UGAGAUGAAGCACUGUAGCUCA&UCAUCUUUCAGGAGCCACCACAGCUGACGGUGUCAUCAUCUCC  
(((((((((((((..(((((((((&.....))))))))).....)))))))). -27.20  
>ENSG00000183755 hs-mir-143 1959 1966  
UGAGAUGAAGCACUGUAGCUCA&AGUGUCAUCAUCAUUUGCAGGGAUGCAUGGUGUCAUCAUCUCC  
(((((((((((((..(((((((((&.....))))))))).....)))))))). -23.80  
mir-143 ENSMUSG00000047107 3160 nt UTR 2 hits 1791 1866  
-----1-----1-----

>ENSMUSG00000047107 hs-mir-143 1791 1798  
UGAGAUGAAGCACUGUAGCUCA&AUCACCUCCAGCAUCCAUCACAGCCAGGGGGUCUUCAUCUCC  
(((((((((((((..(((((((((&.....))))))))).....)))))))). -22.70

```

>ENSMUSG00000047107 hs-mir-143 1866 1873
UGAGAUGAAGCACUGUAGCUCA&CCCAGAUGGUGAGAUCCAUCAGAACCACACUGUCCUCAUCUCU
.(((((((.....((((&.....)))))).....))))). -18.46
mir-143 ENSRNOG00000016877 3125 nt UTR 5 hits 1549 1621 1758 2336
2826
-----1--1-----1---
-----1-----1-----
>ENSRNOG00000016877 hs-mir-143 1549 1556
UGAGAUGAAGCACUGUAGCUCA&UCCAGGAUCCAUAAGGACUCACCUCAACUACCAUAUCAUCUCC
.(((((((.....((((&.....)))))).....))))). -15.60
>ENSRNOG00000016877 hs-mir-143 1621 1628
UGAGAUGAAGCACUGUAGCUCA&AUUGUCUCCCAAGAUUCCUCCCAACCAUGGUGUUUAUCAUCUCC
.(((((((.....&.....)))))).....))))). -21.50
>ENSRNOG00000016877 hs-mir-143 1758 1765
UGAGAUGAAGCACUGUAGCUCA&CCUCCUGGGAUCCAUCACAGCCUGGGGGGUCUUUAUCAUCUCC
.(((((((.....((((&.....)))))).....))))). -17.60
>ENSRNOG00000016877 hs-mir-143 2336 2343
UGAGAUGAAGCACUGUAGCUCA&UCUCCAUGACUUAGGAUUUCUGAAAUCCAGUGAUUAUCAUCUCU
.(((((((.....((((&.....)))))).....))))). -21.90
>ENSRNOG00000016877 hs-mir-143 2826 2833
UGAGAUGAAGCACUGUAGCUCA&CUGUCCCUUGCCCAGCCAUCUGAUCGGUGACAGGGUCAUCUCU
.(((((((.....((((&.....)))))).....))))). -21.40

```

miRNA: mir-143

Human predicted target: ENSG00000184185

Mouse predicted target: ENSMUSG00000042529

Rat predicted target: ENSRNOG00000002303

Hs Gene description: ATP-SENSITIVE INWARD RECTIFIER POTASSIUM CHANNEL 12 (POTASSIUM CHANNEL, INWARDLY RECTIFYING, SUBFAMILY J, MEMBER 12) (INWARD RECTIFIER K+ CHANNEL KIR2.2) (IRK2). [Source:SWISSPROT;Acc:Q14500]

NM\_021012

```

mir-143 ENSG00000184185 2448 nt UTR 2 hits 1063 2356
-----1-----1-----
-----1---
>ENSG00000184185 hs-mir-143 1063 1070
UGAGAUGAAGCACUGUAGCUCA&GAGACUCCGGUUGUCCUGUUCUUCUGGGCUUGCUCUCCUCC
.(((((((.....((((&.....)))))).....))))). -23.30
>ENSG00000184185 hs-mir-143 2356 2363
UGAGAUGAAGCACUGUAGCUCA&CAGCCCCACCCUGCGGGAGAGCAGCCCCAGCGCCUCAUCUCC
.(((((((.....((((&.....)))))).....))))). -25.60
mir-143 ENSMUSG00000042529 2662 nt UTR 3 hits 1144 1705 1811
-----1-----1-----1---1---
-----1-----1-----
>ENSMUSG00000042529 hs-mir-143 1144 1151
UGAGAUGAAGCACUGUAGCUCA&GGGCAGGAUGAUGAAGCCCUGCUGGUCCAGCCAGUCAUCUCC
.(((((((.....((((&.....)))))).....))))). -19.60
>ENSMUSG00000042529 hs-mir-143 1705 1712

```

UGAGAUGAAGCACUGUAGCUCA&AUCCAGAGCAGGGUCUAGGGGCUCCUGCUCCCGGCUCAUCUCAG  
(((((((((((((.(.((((((.&.....)))))))).))))). -24.80  
>ENSMUSG00000042529 hs-mir-143 1811 1818  
UGAGAUGAAGCACUGUAGCUCA&CCUGGGCCCUGCUGGAGAGCAGCUCAAACUGCCUUUCAUCUCU  
(((((((((((((.(.((((((.&.....)))))))).))))). -20.90  
mir-143 ENSRNOG00000002303 2626 nt UTR 3 hits 1108 1668 1783  
-----1-----1-----1--  
-----  
>ENSRNOG00000002303 hs-mir-143 1108 1115  
UGAGAUGAAGCACUGUAGCUCA&GGGCAGAAUGAGGAAGCCCUGCUGGCCCCAGCCAGUCAUCUCC  
(((((((((((((.(.((((((.&.....)))))))).))))). -20.90  
>ENSRNOG00000002303 hs-mir-143 1668 1675  
UGAGAUGAAGCACUGUAGCUCA&UAGGGGCUCCUGGUCCUCCAAGGCCUGCUCUCCAGCUCAUCUCAG  
(((((((((((((.(.((((((.&.....)))))))).))))). -21.20  
>ENSRNOG00000002303 hs-mir-143 1783 1790  
UGAGAUGAAGCACUGUAGCUCA&CCUGGGCCCUGCUGGAGAGCAGCUCAAGCCGCCUUUCAUCUCU  
(((((((((((((.(.((((((.&.....)))))))).))))). -20.54

miRNA: mir-144

Human predicted target: ENSG00000112182

Mouse predicted target: ENSMUSG00000040270

Rat predicted target: ENSRNOG00000006170

Hs Gene description: TRANSCRIPTION REGULATOR PROTEIN BACH2 (BTB AND CNC  
HOMOLOG 2). [Source:SWISSPROT;Acc:Q9BYV9] NM\_021813

mir-144 ENSG00000112182 7879 nt UTR 2 hits 135 921

-----1-----1-----1-----  
-----  
-----  
-----  
-----

>ENSG00000112182 hs-mir-144 135 142  
UACAGUAUAGAUGAUGUACUAG&CACAUUUGGUGCACACUACAGCGGUCUAGCAGCAAUACUGUU  
(((((((((((((.(.((((((.&.....)))))))).))))). -16.46  
>ENSG00000112182 hs-mir-144 921 928  
UACAGUAUAGAUGAUGUACUAG&CUUAAAUGAAGUUGUAACUUCGGUAUAACUCAAGUAUACUGUAU  
(((((((((((((.(.((((((.&.....)))))))).))))). -20.80  
mir-144 ENSMUSG00000040270 2000 nt UTR 3 hits 179 456 828  
-----1-----1-----1-----

-----  
>ENSMUSG00000040270 hs-mir-144 179 186  
UACAGUAUAGAUGAUGUACUAG&CGAAUUGGUGCACACUACAGCAGUCUAGCAGCAAUACUGUU  
(((((((((((((.(.((((((.&.....)))))))).))))). -16.46  
>ENSMUSG00000040270 hs-mir-144 456 463  
UACAGUAUAGAUGAUGUACUAG&AAGACAGCUUCUAUACACAUCAAAGUUUUUAGCUAUACUGUGU  
(((((((((((((.(.((((((.&.....)))))))).))))). -19.90  
>ENSMUSG00000040270 hs-mir-144 828 835  
UACAGUAUAGAUGAUGUACUAG&UCUUCUCCCUUGUGUUUCCCUUCGUCUCUGCGGAUACUGUAC

((((((((((((((((.....&.....)))))))))).....))))). -16.80  
mir-144 ENSRNOG00000006170 2000 nt UTR 2 hits 151 430

-----1-----1-----  
-----

>ENSRNOG00000006170 hs-mir-144 151 158  
UACAGUAUAGAUGAUGUACUAG&CGAAUUUGGUGCACACUACAGCAGUCUUAGCAGCAAUACUGUU  
.((((((((((((((((.....&.....)))))))))).....))))). -16.46  
>ENSRNOG00000006170 hs-mir-144 430 437  
UACAGUAUAGAUGAUGUACUAG&AAGACAGCUUCUAUACACAUCAAAGUUUUUUAUAGCUAUACUGUGU  
((((((((((((((((.....&.....)))))))))).....))))). -19.90

miRNA: mir-144

Human predicted target: ENSG00000116044

Mouse predicted target: ENSMUSG00000015839

Rat predicted target: ENSRNOG00000001548

Hs Gene description: NUCLEAR FACTOR ERYTHROID 2 RELATED FACTOR 2 (NF-E2 RELATED FACTOR 2) (NFE2-RELATED FACTOR 2) (NUCLEAR FACTOR, ERYTHROID DERIVED 2, LIKE 2) (HEBP1). [Source:SWISSPROT;Acc:Q16236] NM\_006164

mir-144 ENSG00000116044 2477 nt UTR 2 hits 265 370

-----1--1-----  
-----

>ENSG00000116044 hs-mir-144 265 272  
UACAGUAUAGAUGAUGUACUAG&UUCUGUGUAAGUGUAAAACUACAAAACUUAUUUAUACUGUU  
.((((((((((((((((.....&.....)))))))))).....))))). -18.10  
>ENSG00000116044 hs-mir-144 370 377  
UACAGUAUAGAUGAUGUACUAG&UAUUGCAAACUAACCACUAUGUACUUUUUAUAAAACUGUAU  
((((((((((((((((.....&.....)))))))))).....))))). -19.40  
mir-144 ENSMUSG00000015839 2447 nt UTR 2 hits 257 349

-----1--1-----  
-----

>ENSMUSG00000015839 hs-mir-144 257 264  
UACAGUAUAGAUGAUGUACUAG&UUUCUGUUUAAGUGUAAAACUACAGAACUUAUUUAUACUGUU  
.((((((((((((((((.....&.....)))))))))).....))))). -19.40  
>ENSMUSG00000015839 hs-mir-144 349 356  
UACAGUAUAGAUGAUGUACUAG&UAUUGAAAACUAACCAGACCACUAUACUUUUUAUUAUACUGUAU  
((((((((((((((((.....&.....)))))))))).....))))). -16.30  
mir-144 ENSRNOG00000001548 2452 nt UTR 2 hits 260 352

-----1--1-----  
-----

>ENSRNOG00000001548 hs-mir-144 260 267  
UACAGUAUAGAUGAUGUACUAG&UUUCUGUGUAAGUGUAAAACUACAGAACUUAUUUAUACUGUU  
.((((((((((((((((.....&.....)))))))))).....))))). -19.40  
>ENSRNOG00000001548 hs-mir-144 352 359  
UACAGUAUAGAUGAUGUACUAG&UAUUGAAAACUAACCACUAUACUUUUUAUUAUACUGUAU  
((((((((((((((((.....&.....)))))))))).....))))). -16.30

miRNA: mir-144

Human predicted target: ENSG00000132591

Mouse predicted target: ENSMUSG00000020832

Rat predicted target: ENSRNOG00000010673

Hs Gene description: GTP-BINDING PROTEIN ERA HOMOLOG (HERA) (FRAGMENT).

[Source:SWISSPROT;Acc:O75616] NM\_005702

mir-144 ENSG00000132591 2508 nt UTR 1 hits 1007

-----1-----

>ENSG00000132591 hs-mir-144 1007 1014
UACAGUAUAGAUGAUGUACUAG&CCAGAGCUGGGGGUGCCCGGACUAGUACAUCUAUACUGUAG
((((((((((((((((((((((((&.....)))))))))))))))))))))))))))). -38.90

mir-144 ENSMUSG00000020832 2675 nt UTR 1 hits 998

-----1-----

>ENSMUSG00000020832 hs-mir-144 998 1005
UACAGUAUAGAUGAUGUACUAG&UCUGGAGGUGGGGUACCCAGACUAGUACAUCUAUACUGUAG
((((((((((((((((((((((((&.....)))))))))))))))))))))))))))). -38.90

mir-144 ENSRNOG00000010673 2000 nt UTR 1 hits 1460

-----1-----

>ENSRNOG00000010673 hs-mir-144 1460 1467
UACAGUAUAGAUGAUGUACUAG&UCUAGUCUUGGGGUACCCAGACUAGUACAUCUAUACUGUAG
((((((((((((((((((((((((&.....)))))))))))))))))))))))))))). -38.90

miRNA: mir-144

Human predicted target: ENSG00000175893

Mouse predicted target: ENSMUSG00000028403

Rat predicted target: ENSRNOG00000010484

mir-144 ENSG00000175893 5432 nt UTR 2 hits 1521 3198

-----1-----

>ENSG00000175893 hs-mir-144 1521 1528
UACAGUAUAGAUGAUGUACUAG&UAAAACAGAAGGUUACCAUUGUCAGCCAGUUGGCUAUACUGUGG
((((((((((..((...((..&.....))...))..)))))))))))). -18.40

>ENSG00000175893 hs-mir-144 3198 3205
UACAGUAUAGAUGAUGUACUAG&UGUCGACCUUCUGGAAAUGAAAGGUUUUUACCUAGAUACUGUAA
((((((((((..((...((..&.....))..))..))..)))))))))))). -14.60

mir-144 ENSMUSG00000028403 3377 nt UTR 2 hits 1293 1315

-----11-----

>ENSMUSG00000028403 hs-mir-144 1293 1300
UACAGUAUAGAUGAUGUACUAG&UAAGUAGUUGUAAAGUAAAGGAAUCAUAGCUGGGAAAUACUGUGG
((((((((((..((...((..&.....))..))..))..))..)))))))))))). -16.70

>ENSMUSG00000028403 hs-mir-144 1315 1322
UACAGUAUAGAUGAUGUACUAG&UCAUAGCUGGGAAAUACUGUGGCUAGUUCUUUCAGAUACUGUAA

((((((((...(((...((((&.....))))).)))...))))). -20.40  
mir-144 ENSRNOG00000010484 2000 nt UTR 2 hits 1311 1333

-----11-----  
-----

>ENSRNOG00000010484 hs-mir-144 1311 1318  
UACAGUAUAGAUGAUGUACUAG&AUAAGAGUUGUAAAGUAAGGAAUCAUAGCUGGGAAAACUGUGG  
((((((((...(((...((((&.....))))).)))...))))). -16.70  
>ENSRNOG00000010484 hs-mir-144 1333 1340  
UACAGUAUAGAUGAUGUACUAG&UCAUAGCUGGGAAAACUGUGGCUAGUUCUUUCAGAUACUGUAA  
((((((((...(((...((((&.....))))).)))...))))). -20.40

miRNA: mir-145

Human predicted target: ENSG00000126003  
Mouse predicted target: ENSMUSG00000051413  
Mouse predicted target: ENSMUSG00000045985  
Rat predicted target: ENSRNOG00000010086  
Hs Gene description: ZINC FINGER PROTEIN PLAGL2 (PLEIOMORPHIC ADENOMA-LIKE  
PROTEIN 2). [Source:SWISSPROT;Acc:Q9UPG8] NM\_002657  
mir-145 ENSG00000126003 5948 nt UTR 2 hits 731 983

-----1-----1-----  
-----  
-----

>ENSG00000126003 hs-mir-145 731 738  
GUCCAGUUUCCAGGAAUCCCUU&UUGGCACCAGCCUGAACCACUUGGUACCUGGUGUUAACUGGAG  
((((((((...(((...((((&.....))))).)))...))))). -  
26.10

>ENSG00000126003 hs-mir-145 983 990  
GUCCAGUUUCCAGGAAUCCCUU&UCCAAGUACAUAUGACCCCUCAUCCUUCUCUUGAACUGGAG  
((((((((...(((...((((&.....))))).)))...))))). -  
19.00

mir-145 ENSMUSG00000051413 5720 nt UTR 3 hits 713 962 1933

-----1-----1-----  
---1-----  
-----

>ENSMUSG00000051413 hs-mir-145 713 720  
GUCCAGUUUCCAGGAAUCCCUU&UUGCCACCAGCCUGAACCACUCGGUACCUGGUGUUAACUGGAG  
((((((((...(((...((((&.....))))).)))...))))). -  
26.40

>ENSMUSG00000051413 hs-mir-145 962 969  
GUCCAGUUUCCAGGAAUCCCUU&UUCUCCAAGUACAUAUGACACCUUCGUCCUCCUGAACUGGAG  
((((((((...(((...((((&.....))))).)))...))))). -  
19.70

>ENSMUSG00000051413 hs-mir-145 1933 1940  
GUCCAGUUUCCAGGAAUCCCUU&UAAGCAAGGUAGCUUGGAAUACCUUUUUUAAAACAACUGGAUA



(((((((((((((.....(((&.....)))))).....)))))).....)))))).. -  
20.29

mir-145 ENSMUSG00000045985 5720 nt UTR 3 hits 713 962 1933  
-----1-----1-----  
---1---  
-----

>ENSMUSG00000045985 hs-mir-145 713 720  
GUCCAGUUUCCAGGAAUCCCUU&UUGCCACCAGCCUGAACCACUCGGUACCUGGUGUUAACUGGAG  
.((((((((.....(((&.....)))))).....))))). -  
26.40

>ENSMUSG00000045985 hs-mir-145 962 969  
GUCCAGUUUCCAGGAAUCCCUU&UUCUCCAAGUACAUCAUGACACCUUCGUCCUCCUGAACUGGAG  
.((((((((.....(((&.....)))))).....))))). -  
19.70

>ENSMUSG00000045985 hs-mir-145 1933 1940  
GUCCAGUUUCCAGGAAUCCCUU&UAAGCAAGGUAGCUUGGAAUACCUUUUUUAAAACAACUGGAUA  
(((((((((((((.....(((&.....)))))).....)))))).....)))))).. -  
20.29

mir-145 ENSRNOG00000010086 2000 nt UTR 3 hits 718 967 1926  
-----1-----1-----  
---1---

>ENSRNOG00000010086 hs-mir-145 718 725  
GUCCAGUUUCCAGGAAUCCCUU&UUGCCACCAGUCUGAACCACUCGGUACCUGGUGUUAACUGGAG  
.((((((((.....(((&.....)))))).....))))). -  
26.40

>ENSRNOG00000010086 hs-mir-145 967 974  
GUCCAGUUUCCAGGAAUCCCUU&UUCUCCAAGUACAUCAUGACACCUUCGUCCUCCUGAACUGGAG  
.((((((((.....(((&.....)))))).....))))). -  
19.70

>ENSRNOG00000010086 hs-mir-145 1926 1933  
GUCCAGUUUCCAGGAAUCCCUU&UAAGCAAGGUAGCUUGGAAUACCUUUUUAAAAGACAACUGGAUA  
(((((((((((((.....(((&.....)))))).....)))))).....)))))).. -  
22.56

miRNA: mir-145  
Human predicted target: ENSG00000136379  
Mouse predicted target: ENSMUSG00000038459  
Rat predicted target: ENSRNOG00000012683

mir-145 ENSG00000136379 3251 nt UTR 3 hits 439 574 1162  
-----1-----1-----1-----  
-----

>ENSG00000136379 hs-mir-145 439 446  
GUCCAGUUUCCAGGAAUCCCUU&AUGGGUUCACUCCAUUUGUGAAGCUGUGAUAGUGUUAACUGGAA  
.(((((((((((((.....(((&.....)))))).....)))))).....))))). -  
19.86

>ENSG00000136379 hs-mir-145 574 581

```

GUCCAGUUUCCAGGAAUCCCUU&GUGUACAGCUUCAUCAACUGUAACCAUAUAAAUAUAAACUGGAA
.(((((((.....&.....)))))))). -
13.30
>ENSG00000136379 hs-mir-145 1162 1169
GUCCAGUUUCCAGGAAUCCCUU&GCCUUAUAUGUACUGUAAGCCUCAGAUCGUUGUACAACUGGACU
(((((((.....((..((.....&.....))))..))))..))))). -
18.60
mir-145 ENSMUSG00000038459 3222 nt UTR 3 hits 415 542 1138
-----1-----1-----1-----
>ENSMUSG00000038459 hs-mir-145 415 422
GUCCAGUUUCCAGGAAUCCCUU&AUGGGUGAGAUUCAUAUGUGAAGCUAUGGUAGUGUAACUGGAA
.(((((((.....((..(((((.....&..))..))))..))))..))))..))))). -
19.81
>ENSMUSG00000038459 hs-mir-145 542 549
GUCCAGUUUCCAGGAAUCCCUU&UAUAACAGCUUCAUCAACUGUUACCAUUUAAAUAACAACUGGAA
.(((((((.....&.....)))))))). -
13.40
>ENSMUSG00000038459 hs-mir-145 1138 1145
GUCCAGUUUCCAGGAAUCCCUU&GCCUUAUAUGUACUGUAAGCCUCAGAUCGUUGUACAACUGGAUU
(((((((.....((..((.....&.....))))..))))..))))). -
16.20
mir-145 ENSRNOG00000012683 3201 nt UTR 3 hits 420 542 1116
-----1-----1-----1-----
>ENSRNOG00000012683 hs-mir-145 420 427
GUCCAGUUUCCAGGAAUCCCUU&AAGGGUGCGAUUCCUUGUGAAGCUGUGGUAGUGUAACUGGAA
.(((((((.....(((((.....&)))..))))..))))..))))..))))). -
22.10
>ENSRNOG00000012683 hs-mir-145 542 549
GUCCAGUUUCCAGGAAUCCCUU&ACUAACAGCUUCAUCAACUGUUACCAUUUAAAUAACAACUGGAA
.(((((((.....&.....)))))))). -
13.40
>ENSRNOG00000012683 hs-mir-145 1116 1123
GUCCAGUUUCCAGGAAUCCCUU&GCCUUAUAUGUACUGUAAGCCUCAGAUCGUUGUACAACUGGAUU
(((((((.....((..((.....&.....))))..))))..))))). -
16.20

```

```

miRNA: mir-145
Human predicted target: ENSG00000143952
Mouse predicted target: ENSMUSG00000020128
Rat predicted target: ENSRNOG00000007125
Hs Gene description: TUMOR ANTIGEN SLP-8P. [Source:RefSeq;Acc:NM_016516]
mir-145 ENSG00000143952 3326 nt UTR 2 hits 195 1773
-----1-----1-----
>ENSG00000143952 hs-mir-145 195 202

```

```

GUCCAGUUUCCAGGAAUCCCUU&GGGGAAGGGAAAAAGGAAAGUAUCAAGUGUUGGGAAACUGGAUU
(((((((((((((.(.(.(((((&.....)))))).....)))))))). -
25.77
>ENSG00000143952 hs-mir-145 1773 1780
GUCCAGUUUCCAGGAAUCCCUU&AUAAUGGUAUGAUUAAGAUUCUAGAAAUGCCAAAAACUGGACU
(((((((((((((.(.(((((&.....)))))).....)))))))). -
21.80
mir-145 ENSMUSG00000020128 3275 nt UTR 2 hits 142 1338
-----1-----1-----
>ENSMUSG00000020128 hs-mir-145 142 149
GUCCAGUUUCCAGGAAUCCCUU&AGGUGGGGGAAGGGAAAAGAAGGAUCAGUGUUGGGAAACUGGAUU
(((((((((((((.(.(((((&.....)))))).....)))))))). -
24.10
>ENSMUSG00000020128 hs-mir-145 1338 1345
GUCCAGUUUCCAGGAAUCCCUU&UUAACACACAGCCUUUCAAACAAAUAUGGAAGAACUGGAA
(((((((((((((.(.(((((&.....)))))).....)))))))). -
20.30
mir-145 ENSRNOG00000007125 2869 nt UTR 2 hits 331 1790
-----1-----1-----
>ENSRNOG00000007125 hs-mir-145 331 338
GUCCAGUUUCCAGGAAUCCCUU&UAAGGCGGGGAAGGGAAGAGAAGAUCAUGUGUUGGGAAACUGGAUU
(((((((((((((.(.(.(((((&.....)))))).....)))))))). -
23.30
>ENSRNOG00000007125 hs-mir-145 1790 1797
GUCCAGUUUCCAGGAAUCCCUU&AAUAGUCUUAAGAAAGAAAGGAAAAGCAAACAAAAAACUGGACU
(((((((((((((.(.(((((&.....)))))).....)))))))). -
19.20

```

```

miRNA: mir-145
Human predicted target: ENSG00000151702
Mouse predicted target: ENSMUSG00000016087
Rat predicted target: ENSRNOG00000008904
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&UCAACAGGACAUAUGUGGCCUUGAAGGGAAGACAAAACUGGAUG
(((((((((((((.(.(((((&.....)))))).....)))))))). -
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&CUCUAAAAGGCACAGUAGCCUUGAAGAGAUAAAGAAACUGGAUG
(((((((.(((((.((((&.....))))).))))).))))). -
20.80
>ENSMUSG00000016087 hs-mir-145      503      510
GUCCAGUUUCCAGGAAUCCCUU&AUCUUAUCUUCGGAGGACUCAAUUCAGUGGAUGGCAACUGGAA
.(((((((.(((((.((((&.....))))).))))).))))). -
20.60
>ENSMUSG00000016087 hs-mir-145      544      551
GUCCAGUUUCCAGGAAUCCCUU&AACACUGGCUCUGAGGCCAGUGAAGUUUUUGCCCAACUGGAA
.(((((((.(((((.((((&.....))))).))))).))))). -
16.20
mir-145      ENSRNOG00000008904  2000 nt UTR      3 hits 102 536 576
-----1-----1-1-----
>ENSRNOG00000008904 hs-mir-145      102      109
GUCCAGUUUCCAGGAAUCCCUU&CUCUAAAAGAUGCUGUAGCUUUGAAGAGAUAAAGAAACUGGAUG
(((((((.(((((.((((&.....))))).))))).))))). -
19.90
>ENSRNOG00000008904 hs-mir-145      536      543
GUCCAGUUUCCAGGAAUCCCUU&AUCUUUUUCUAGGAGGACUUAUUUCAGCGGAUGGCAACUGGAA
.(((((((.(((((.((((&.....))))).))))).))))). -
20.60
>ENSRNOG00000008904 hs-mir-145      576      583
GUCCAGUUUCCAGGAAUCCCUU&GAACACCGGCUGGGAGGCUGGUGAAGUCCUGCCCAACUGGAA
.(((((((.(((((.((((&.....))))).))))).))))). -
26.20

```

```

miRNA: mir-145
Human predicted target: ENSG00000165527
Mouse predicted target: ENSMUSG00000044147
Rat predicted target: ENSRNOG00000004791
Hs Gene description: ADP-RIBOSYLATION FACTOR 6.
[Source:SWISSPROT;Acc:P26438] NM_001663
mir-145      ENSG00000165527      2508 nt UTR      3 hits 973 1502 2171
-----1-----1-----
-----1-----
>ENSG00000165527 hs-mir-145      973      980

```

```

GUCCAGUUUCCAGGAAUCCCUU&AUAAUUUGUAGAUUUUUAAGUGACUUUUGGGCAAACUGGAA
.(((((((((((((((((((((.(.(((&.....)))))).)))))..)))))).. -
27.90
>ENSG00000165527 hs-mir-145 1502 1509
GUCCAGUUUCCAGGAAUCCCUU&UAACAAGAUUACUUGGUUAGCUGGUUAGGACCAGUAACUGGAU
((((((((((...((((((((((...&.....)))))).)))))..)))))).. -
19.75
>ENSG00000165527 hs-mir-145 2171 2178
GUCCAGUUUCCAGGAAUCCCUU&CUGAAACAAAACAAGCACAAAGGUUAAAUGCCUAAACUGGAG
.((((((((((...((...(((((&.....)))))).))...))..)))))).. -
18.30
mir-145 ENSMUSG00000044147 2495 nt UTR 2 hits 910 2044
-----1-----
-----1-----
>ENSMUSG00000044147 hs-mir-145 910 917
GUCCAGUUUCCAGGAAUCCCUU&AUAAUUUGUAGAUUUUUAAGUGACUUUUGGGCAAACUGGAA
.(((((((((((((((((((((.(.(((&.....)))))).)))))..)))))).. -
23.10
>ENSMUSG00000044147 hs-mir-145 2044 2051
GUCCAGUUUCCAGGAAUCCCUU&CUGAAACAAAUAAGCACAAAGGUUAAAUGCCUAAACUGGAG
.((((((((((...((...(((((&.....)))))).))...))..)))))).. -
18.30
mir-145 ENSRNOG00000004791 2336 nt UTR 2 hits 908 2029
-----1-----
-----1-----
>ENSRNOG00000004791 hs-mir-145 908 915
GUCCAGUUUCCAGGAAUCCCUU&GUAAUUUGUAGAUACUUUUAAGUGACUUUUGGGCAAACUGGAA
.(((((((((((((((((((((.(.(((&.....)))))).)))))..)))))).. -
28.00
>ENSRNOG00000004791 hs-mir-145 2029 2036
GUCCAGUUUCCAGGAAUCCCUU&CUGAAACAAAUAAGCACAAAGGUUAAAUGCCUAAACUGGAG
.((((((((((...((...(((((&.....)))))).))...))..)))))).. -
18.30

```

```

miRNA: mir-146
Human predicted target: ENSG00000089094
Mouse predicted target: ENSMUSG00000029475
Rat predicted target: ENSRNOG00000001334
Hs Gene description: JEMMA PROTEIN. [Source:SPTREMBL;Acc:Q8NHM5]
mir-146 ENSG00000089094 3109 nt UTR 2 hits 959 2306
-----1-----
-----1-----
>ENSG00000089094 hs-mir-146 959 966
UGAGAACUGAAUCCAUGGGUU&UUUGCUUUUGCUUCUCUCCUCUGAAGUGAGUUGAGUUCUCAU
(((((((((((((((((((((.(.(((&.....)))))).)))))..)))))).. -24.10
>ENSG00000089094 hs-mir-146 2306 2313
UGAGAACUGAAUCCAUGGGUU&UCAUGAAGGUAAUAAUUUGUUUUCUUGACAGCCUGAGUUCUCC

```

```

((((((((.....((((((&.....))))))))))))). -15.20
mir-146   ENSMUSG00000029475   3037 nt UTR     2 hits 930 2356
-----1-----
-----1-----
>ENSMUSG00000029475 hs-mir-146     930     937
UGAGAACUGAAUCCAUGGGUU&CACCCUCUCCUUUGUCCUCCUCUCAAGUGUUCAGUUCUCAC
((((((((.....((((((&.....))))))))))))). -24.00
>ENSMUSG00000029475 hs-mir-146   2356   2363
UGAGAACUGAAUCCAUGGGUU&AUUGGCUGACCCUUCUGCAUAAGCUAUUGAUCUCAAGUUCUCAU
((((((((.....((((((&.....))))))))))))). -20.60
mir-146   ENSRNOG00000001334   3017 nt UTR     2 hits 922 1182
-----1-----1-----
-----1-----
>ENSRNOG00000001334 hs-mir-146     922     929
UGAGAACUGAAUCCAUGGGUU&AUAGCCUUUCCUCUGUCCCCUCCUUUCAAGUGUUCAGUUCUCAC
((((((((.....((((((&.....))))))))))))). -23.40
>ENSRNOG00000001334 hs-mir-146   1182   1189
UGAGAACUGAAUCCAUGGGUU&AUAGCCUUUCCUCUGUCCCCUCCUUUCAAGUGUUCAGUUCUCAC
((((((((.....((((((&.....))))))))))))). -23.40

```

miRNA: mir-146

Human predicted target: ENSG00000118263

Mouse predicted target: ENSMUSG00000025959

Rat predicted target: ENSRNOG00000012961

Hs Gene description: KRUEPPEL-LIKE FACTOR 7 (UBIQUITOUS KRUEPPEL-LIKE FACTOR). [Source:SWISSPROT;Acc:O75840]

```

mir-146   ENSG00000118263     2859 nt UTR     3 hits 106 1055 2347
-----1-----1-----
-----1-----

```

```

>ENSG00000118263 hs-mir-146     106     113
UGAGAACUGAAUCCAUGGGUU&GACUUCAGGCGGGGACCCAUUGCCUCGCAGAAGAAAGUUCUCAC
((((((((.....((((((&.....))))))))))))). -23.30
>ENSG00000118263 hs-mir-146   1055   1062
UGAGAACUGAAUCCAUGGGUU&CAGCUCUCGAAGCAGCCAGUCAGAUGGGACAUCACAGUUCUCU
((((((((.....((((((&.....))))))))))))). -22.20
>ENSG00000118263 hs-mir-146   2347   2354
UGAGAACUGAAUCCAUGGGUU&ACAAUUCUGGAGCACUGCUUGCUGACAAUCUCGUAGUUCUCU
((((((((.....((((((&.....))))))))))))). -17.90
mir-146   ENSMUSG00000025959   2038 nt UTR     2 hits 170 1139
-----1-----1-----
-----1-----
>ENSMUSG00000025959 hs-mir-146     170     177
UGAGAACUGAAUCCAUGGGUU&GGACUUCAGGCGGGGAGAACUGCCUCGCAGAAGAAAGUUCUCGC
((((((((.....((((((&.....))))))))))))). -20.40
>ENSMUSG00000025959 hs-mir-146   1139   1146
UGAGAACUGAAUCCAUGGGUU&UAGCUCUCGAAGCAGCCAAUCAGAUGGGACAUCAGAGUUCUCU
((((((((.....((((((&.....))))))))))))). -20.10

```

mir-146 ENSRNOG00000012961 4230 nt UTR 2 hits 168 1138  
-----1-----1-----  
-----  
>ENSRNOG00000012961 hs-mir-146 168 175  
UGAGAACUGAAUCCAUGGGUU&UGGACUUCAGGCGGGAGCACUGCCUCGCAGAAGAAAGUUCUCAC  
((((((((((...(((...(((...&.....)))))))).))))). -21.10  
>ENSRNOG00000012961 hs-mir-146 1138 1145  
UGAGAACUGAAUCCAUGGGUU&UAGCUCUCGAAGCAGCCAAUCAGACGGGACAUCAGAGUUCUCU  
((((((((((...(((...(((...&.....)))))))).))))). -18.30

miRNA: mir-146  
Human predicted target: ENSG00000175104  
Mouse predicted target: ENSMUSG00000027164  
Rat predicted target: ENSRNOG00000004639  
Hs Gene description: TNF RECEPTOR-ASSOCIATED FACTOR 6.  
[Source:RefSeq;Acc:NM\_004620] NM\_145803

mir-146 ENSG00000175104 2665 nt UTR 3 hits 473 538 1272  
-----1--1-----1-----  
-----  
>ENSG00000175104 hs-mir-146 473 480  
UGAGAACUGAAUCCAUGGGUU&GUGCCCUCGAGAAGAGUUUUGCUCUAGAAAGUUGAGUUCUCAU  
((((((((((...(((...(((...&.....)))))))).))))). -20.60  
>ENSG00000175104 hs-mir-146 538 545  
UGAGAACUGAAUCCAUGGGUU&UCAGAGGAUUUGAACCAUAAUCCUUGGAAAACUUAAGUUCUCAU  
((((((((((...(((...(((...&.....)))))))).))))). -24.50  
>ENSG00000175104 hs-mir-146 1272 1279  
UGAGAACUGAAUCCAUGGGUU&AGGCCUAUAUAUAGAUUAUAAAUAUCGUGGAAUCUAGUUCUCAG  
((((((((((...(((...(((...&.....)))))))).))))). -28.50  
mir-146 ENSMUSG00000027164 2439 nt UTR 3 hits 460 524 1336

-----1-1-----1-----  
-----  
>ENSMUSG00000027164 hs-mir-146 460 467  
UGAGAACUGAAUCCAUGGGUU&CUGGUGCCAGUAGAGAAGUUACCGCUCUGGUGUUGAGUUCUCAU  
((((((((((...(((...(((...&.....)))))))).))))). -25.60  
>ENSMUSG00000027164 hs-mir-146 524 531  
UGAGAACUGAAUCCAUGGGUU&UCAGAGGCUUUGAACCAUGAUCCUGGAAGGCUUAAGUUCUCAA  
((((((((((...(((...(((...&.....)))))))).))))). -26.20  
>ENSMUSG00000027164 hs-mir-146 1336 1343  
UGAGAACUGAAUCCAUGGGUU&UUA AUGUCCUGUACAUUAUACAGUACUUGGAGUCUAGUUCUCAG  
((((((((((...(((...(((...&.....)))))))).))))). -25.00  
mir-146 ENSRNOG00000004639 2000 nt UTR 3 hits 443 507 1305

-----1--1-----1-----  
-----  
>ENSRNOG00000004639 hs-mir-146 443 450  
UGAGAACUGAAUCCAUGGGUU&CUGCUGCCAGUGGAAAGGUACUGCUCUGGUGUUGAGUUCUCAU  
((((((((((...(((...(((...&.....)))))))).))))). -25.50

>ENSRNOG00000004639 hs-mir-146 507 514  
UGAGAACUGAAUCCAUGGGUU&UCAGAGGCUUUGAACCAUGAUCCUGGAAAGCUGAAGUUCUCAU  
((((((((((...(((((((((&.....)))))))).))))).))))). -24.90  
>ENSRNOG00000004639 hs-mir-146 1305 1312  
UGAGAACUGAAUCCAUGGGUU&CUGUGUAUUUGUUAAGUAUAGUACUUUGGAGUCUAGUUCUCAG  
((((((((((...(((((((((&.....)))))))).))))).))))). -25.00

miRNA: mir-146

Human predicted target: ENSG00000182149  
Mouse predicted target: ENSMUSG00000031729  
Rat predicted target: ENSRNOG00000015144  
Hs Gene description: NM\_014761

mir-146 ENSG00000182149 3210 nt UTR 2 hits 171 1865

-----1-----  
1-----  
>ENSG00000182149 hs-mir-146 171 178  
UGAGAACUGAAUCCAUGGGUU&CUCUCUGCCUGCUCUCCAGAUUCUGCUGCUUCCAGUUCUCU  
.((((((((((...(((((((((&.....)))))))).))))).))))). -16.82  
>ENSG00000182149 hs-mir-146 1865 1872  
UGAGAACUGAAUCCAUGGGUU&UCUAACCUUAAACAGUAUUCACAGUUGUAGAUCACAGUUCUCAA  
((((((((((...(((((((((&...)))))))).))))).))))). -18.96

mir-146 ENSMUSG00000031729 3123 nt UTR 2 hits 48 576

-1-----1-----  
-----  
>ENSMUSG00000031729 hs-mir-146 48 55  
UGAGAACUGAAUCCAUGGGUU&AGGCAGCAUCCACAUUCUGGAAGUUGAUAGUGAACAGUUCUCC  
.((((((((((...(((((((((&.....)))))))).))))).))))). -21.44  
>ENSMUSG00000031729 hs-mir-146 576 583  
UGAGAACUGAAUCCAUGGGUU&CUGUUCACCUGGAUCCAGUUGCAAAGUUGGAAAAGUUCUCU  
.((((((((((...(((((((((&.....)))))))).))))).))))). -22.50

mir-146 ENSRNOG00000015144 2000 nt UTR 2 hits 51 158

--1---1-----  
-----  
>ENSRNOG00000015144 hs-mir-146 51 58  
UGAGAACUGAAUCCAUGGGUU&AGGCAACAUCCACGAUCUGGAAGUUGAUUAGGAACAGUUCUCC  
.((((((((((...(((((((((&.....)))))))).))))).))))). -23.10  
>ENSRNOG00000015144 hs-mir-146 158 165  
UGAGAACUGAAUCCAUGGGUU&GGGCUCCUGCUGCUCUACCAACUGUGUUGCUUCCAGUUCUCC  
.((((((((((...(((((((((&.....)))))))).))))).))))). -17.10

miRNA: mir-148b

Human predicted target: ENSG00000055070  
Mouse predicted target: ENSMUSG00000040842  
Rat predicted target: ENSRNOG00000009183  
Hs Gene description: NM\_015609

mir-148b ENSG00000055070 5002 nt UTR 5 hits 65 119 165 1451 4268



--1-1-1-----1-----

-----1-----  
>ENSG00000055070 hs-mir-148b 65 72  
UCAGUGCAUCACAGAACUUUGU&UGCCGUCACCGCCUCCUGGGUCGUCGCCACGGGUUGCACUGC  
.(((((((((((((.....&.....)))))).....)))))))). -15.46  
>ENSG00000055070 hs-mir-148b 119 126  
UCAGUGCAUCACAGAACUUUGU&GCUGGACUUGAGCAGAGGGAACGACCUGACUUACUUGCACUGU  
.(((((((((((((.....&.....)))))).....)))))))). -18.40  
>ENSG00000055070 hs-mir-148b 165 172  
UCAGUGCAUCACAGAACUUUGU&CCCCUUGCUCGCCACUGUGACCUUGAACCCCAUGCACUGU  
.(((((((((((((((.....&.....)))))).....)))))))). -20.30  
>ENSG00000055070 hs-mir-148b 1451 1458  
UCAGUGCAUCACAGAACUUUGU&ACCUGGCUCUCAGGCUUCCUGAUCCCUUCCGUUGCACUGC  
.(((((((((((((.....&.....)))))).....)))))))). -15.90  
>ENSG00000055070 hs-mir-148b 4268 4275  
UCAGUGCAUCACAGAACUUUGU&GGGGCUGCGGAUGUCAGGAUCCAGGCCAGGGGGUGUGCACUGGU  
(((((((((((((((.....&.....)))))).....)))))))). -21.50  
mir-148b ENSMUSG00000040842 2000 nt UTR 2 hits 116 162

----1-1-----1-----

-----  
>ENSMUSG00000040842 hs-mir-148b 116 123  
UCAGUGCAUCACAGAACUUUGU&GCUGGACUUGAGCAGAGGGAUAACCUGACUUACUUGCACUGU  
.(((((((((((((.....&.....)))))).....)))))))). -18.40  
>ENSMUSG00000040842 hs-mir-148b 162 169  
UCAGUGCAUCACAGAACUUUGU&CCCCUUGCUCGCCACUGUGACCUUGAACCCCAUGCACUGU  
.(((((((((((((((.....&.....)))))).....)))))))). -20.30  
mir-148b ENSRNOG00000009183 2530 nt UTR 4 hits 114 160 638 684

----1-1-----1-----

-----  
>ENSRNOG00000009183 hs-mir-148b 114 121  
UCAGUGCAUCACAGAACUUUGU&UCUGGACUUGAGCAGAGGGAUAACCUGACUUACUUGCACUGU  
.(((((((((((((.....&.....)))))).....)))))))). -18.40  
>ENSRNOG00000009183 hs-mir-148b 160 167  
UCAGUGCAUCACAGAACUUUGU&CCCCUUGCUCGCCACUGUGACCUUGAACCCCAUGCACUGU  
.(((((((((((((((.....&.....)))))).....)))))))). -20.30  
>ENSRNOG00000009183 hs-mir-148b 638 645  
UCAGUGCAUCACAGAACUUUGU&UCUGGACUUGAGCAGAGGGAUAACCUGACUUACUUGCACUGU  
.(((((((((((((.....&.....)))))).....)))))))). -18.40  
>ENSRNOG00000009183 hs-mir-148b 684 691  
UCAGUGCAUCACAGAACUUUGU&CCCCUUGCUCGCCACUGUGACCUUGAACCCCAUGCACUGU  
.(((((((((((((((.....&.....)))))).....)))))))). -20.30

miRNA: mir-148b  
Human predicted target: ENSG00000105983  
Mouse predicted target: ENSMUSG00000010721  
Rat predicted target: ENSRNOG00000005306

Hs Gene description: LIMB REGION 1 PROTEIN; LIMB REGION 1.

[Source:RefSeq;Acc:NM\_022458]

mir-148b ENSG00000105983 5201 nt UTR 2 hits 1257 4010

-----1-----  
-----1-----

>ENSG00000105983 hs-mir-148b 1257 1264  
UCAGUGCAUCACAGAACUUUGU&GUAGUUAUGCAGUCUGCUAUUAUAAUUAUGUUCACAUGCACUGU  
.((((((((.....((((.....&.....))))))..)))))))). -18.80

>ENSG00000105983 hs-mir-148b 4010 4017  
UCAGUGCAUCACAGAACUUUGU&CUGAAGCAAAGUACUGUGUACGCAAUACUUGUUGCACUGU  
.((((((((.....((((.....&.....))))))..)))))))). -23.43

mir-148b ENSMUSG00000010721 2000 nt UTR 2 hits 1026 1849

-----1-----  
1-----

>ENSMUSG00000010721 hs-mir-148b 1026 1033  
UCAGUGCAUCACAGAACUUUGU&AGCACACAUUUCACAGAAUUAUAGUGAUGCUCACAUGCACUGU  
.((((((((.....((((.....&.....))))))..)))))))). -18.00

>ENSMUSG00000010721 hs-mir-148b 1849 1856  
UCAGUGCAUCACAGAACUUUGU&UGUCUUAACUUGAUUCUUGGGCCUUCUGUGGUUGAUGCACUGC  
.((((((((.....((((.....&.....))))))..)))))))). -23.60

mir-148b ENSRNOG00000005306 2000 nt UTR 2 hits 1889 1967

-----1-----  
-1--1-

>ENSRNOG00000005306 hs-mir-148b 1889 1896  
UCAGUGCAUCACAGAACUUUGU&ACCUGGAGGGAGGUACUGGGUCCAGGUGCUGUCCUGCACUGGG  
((((((((.....((((.....&.....))))))..)))))))). -22.20

>ENSRNOG00000005306 hs-mir-148b 1967 1974  
UCAGUGCAUCACAGAACUUUGU&GGACAGCCGUGUGCACACAGUUGCACGCAGGGUCCUGCACUGC  
.((((((((.....((((.....&.....))))))..)))))))). -18.70

miRNA: mir-148b

Human predicted target: ENSG00000106511

Mouse predicted target: ENSMUSG00000036144

Rat predicted target: ENSRNOG00000006588

Hs Gene description: HOMEBOX PROTEIN MOX-2 (MESENCHYME HOMEBOX 2)  
(GROWTH ARREST-SPECIFIC HOMEBOX). [Source:SWISSPROT;Acc:P50222] NM\_005924

mir-148b ENSG00000106511 3175 nt UTR 2 hits 281 434

-----1-----1-----  
-----1-----

>ENSG00000106511 hs-mir-148b 281 288  
UCAGUGCAUCACAGAACUUUGU&GUAUGGCAGUGAGCAGGUAUGUGUUUGCUUUUGCUUGCACUGAA  
((((((((.....((((.....&.....))))))..)))))))). -21.02

>ENSG00000106511 hs-mir-148b 434 441  
UCAGUGCAUCACAGAACUUUGU&AUGUGUAUUACAGUGGGCAGGUAUUUGCUUUUGCUUGCACUGAA  
((((((((.....((((.....&.....))))))..)))))))). -19.30

mir-148b ENSMUSG00000036144 3121 nt UTR 2 hits 271 427

-----1-----1-----  
-----  
>ENSMUSG00000036144 hs-mir-148b 271 278  
UCAGUGCAUCACAGAACUUUGU&UAUGACAGAGAGGGAGAUGGAUGUUUGCUUUGGCUUGCACUGAA  
((((((((...(((((((((&.....)))))).....))))))..)))))))). -21.11  
>ENSMUSG00000036144 hs-mir-148b 427 434  
UCAGUGCAUCACAGAACUUUGU&AUGUGUGUGACACUAGGCAGGUAUUUGCUUUUGCUUGCACUGAA  
((((((((...(((((((((&.....)))))).....))))))..)))))))). -19.30  
mir-148b ENSRNOG00000006588 3146 nt UTR 2 hits 275 425  
-----1-----1-----

-----  
>ENSRNOG00000006588 hs-mir-148b 275 282  
UCAGUGCAUCACAGAACUUUGU&UAUGACAGAGAGGGAGAUGAAUGUUUGCUUUGGCUUGCACUGAA  
((((((((...(((((((((&.....)))))).....))))))..)))))))). -21.11  
>ENSRNOG00000006588 hs-mir-148b 425 432  
UCAGUGCAUCACAGAACUUUGU&AUGUGUGUGACACUGGGCAGGUAUUUGCUUUUGCUUGCACUGAA  
((((((((...(((((((((&.....)))))).....))))))..)))))))). -19.30

miRNA: mir-148b  
Human predicted target: ENSG00000113742  
Mouse predicted target: ENSMUSG00000020300  
Rat predicted target: ENSRNOG00000020689  
mir-148b ENSG00000113742 6172 nt UTR 2 hits 1214 2384  
-----1-----

-----1-----  
-----  
>ENSG00000113742 hs-mir-148b 1214 1221  
UCAGUGCAUCACAGAACUUUGU&ACAGUUAAAAAAGUGAAGUAGUUGCAAAGUGUUUUGCACUGU  
((((((((...(((((((((&.....)))))).....))))))..)))))))). -21.90  
>ENSG00000113742 hs-mir-148b 2384 2391  
UCAGUGCAUCACAGAACUUUGU&CAGUGCUCUGCAUACAUUUUAAAUAUGAAUGUCGUGCACUGGC  
((((((((...(((((((((&.....)))))).....))))))..)))))))). -20.10  
mir-148b ENSMUSG00000020300 2665 nt UTR 2 hits 1146 2318  
-----1-----

-----1-----  
-----  
>ENSMUSG00000020300 hs-mir-148b 1146 1153  
UCAGUGCAUCACAGAACUUUGU&GUUAAAAAAGUCAAGUAGUUGCAAAGUGUUUUGCACUGU  
((((((((...(((((((((&.....)))))).....))))))..)))))))). -21.90  
>ENSMUSG00000020300 hs-mir-148b 2318 2325  
UCAGUGCAUCACAGAACUUUGU&CAGUGCUCUGCAUACAUUUUAAAUAUGAAUGUUGUCACUGGC  
((((((((...(((((((((&.....)))))).....))))))..)))))))). -20.10  
mir-148b ENSRNOG00000020689 2667 nt UTR 2 hits 1149 2285  
-----1-----

-----1-----  
-----  
>ENSRNOG00000020689 hs-mir-148b 1149 1156  
UCAGUGCAUCACAGAACUUUGU&GUUAAAAAAGUCAAGUAGUUGCAAAGUGUUUUGCACUGU

.(((((((...(((...(((...(((...&...)))))))).)))). -21.90  
>ENSRNOG00000020689 hs-mir-148b 2285 2292  
UCAGUGCAUCACAGAACUUUGU&CAGUGCUCUGCAUACAUUUUAAAUAUGAAUGUUGGCACUGGC  
(((((((...(((...(((...(((...&...)))))))).)))). -20.10

miRNA: mir-148b

Human predicted target: ENSG00000121871  
Mouse predicted target: ENSMUSG00000048304  
Rat predicted target: ENSRNOG00000009821  
Hs Gene description: NM\_014926

mir-148b ENSG00000121871 3175 nt UTR 2 hits 1304 1437

-----1-----1-----

>ENSG00000121871 hs-mir-148b 1304 1311  
UCAGUGCAUCACAGAACUUUGU&UUGUUACACAGAAAGUAAUUAUUAACGGGUUGAUGCACUGU  
.(((((((...(((...(((...(((...&...)))))))).)))). -21.70

>ENSG00000121871 hs-mir-148b 1437 1444  
UCAGUGCAUCACAGAACUUUGU&CUUGAAUUAUGAAUUCAGUCUUAAGUAACCAGUGAUGCACUGU  
.(((((((...(((...(((...(((...&...)))))))).)))). -24.40

mir-148b ENSMUSG00000048304 2000 nt UTR 2 hits 628 1354

-----1-----1-----

>ENSMUSG00000048304 hs-mir-148b 628 635  
UCAGUGCAUCACAGAACUUUGU&CAGCAACUCCCUACAUAACACUUAGGUCCCUCAGCCUGCACUGGG  
(((((((...(((...(((...(((...&...)))))))).)))). -16.00

>ENSMUSG00000048304 hs-mir-148b 1354 1361  
UCAGUGCAUCACAGAACUUUGU&GGAUUAACAGAAAGCUAAAUGAUUAACAAGUUUGAUGCACUGU  
.(((((((...(((...(((...(((...&...)))))))).)))). -22.50

mir-148b ENSRNOG00000009821 2000 nt UTR 2 hits 629 1320

-----1-----1-----

>ENSRNOG00000009821 hs-mir-148b 629 636  
UCAGUGCAUCACAGAACUUUGU&CAACAAAUCCCUACAUAACACGUAGGUCCCACAGCCUGCACUGGG  
(((((((...(((...(((...(((...&...)))))))).)))). -16.19

>ENSRNOG00000009821 hs-mir-148b 1320 1327  
UCAGUGCAUCACAGAACUUUGU&UGGUUAUACAGAAAGCUAAAUGAUUAACAAGUUCGAUGCACUGU  
.(((((((...(((...(((...(((...&...)))))))).)))). -23.80

miRNA: mir-148b

Human predicted target: ENSG00000133318  
Mouse predicted target: ENSMUSG00000024758  
Rat predicted target: ENSRNOG00000021202  
Hs Gene description: RETICULON PROTEIN 3 (NEUROENDOCRINE-SPECIFIC PROTEIN-  
LIKE 2) (NSP-LIKE PROTEIN II) (NSPLII). [Source:SWISSPROT;Acc:O95197]

NM\_006054

mir-148b ENSG00000133318 3683 nt UTR 2 hits 869 1153

-----1-----1-----  
-----  
>ENSG00000133318 hs-mir-148b 869 876  
UCAGUGCAUCACAGAACUUUGU&UUUUCUUACUAUAAAUAUAAUGUCUGUAACUGCUGGCACUGC  
.(((((((((.(((((.(((((&.....))))))..))))).))))). -19.80  
>ENSG00000133318 hs-mir-148b 1153 1160  
UCAGUGCAUCACAGAACUUUGU&UUCUCACUCAUAGUCAUGAUCCUUCAGAGGGAAUAUGCACUGGC  
(((((((((......(((((&.....))))))..))))). -20.10  
mir-148b ENSMUSG00000024758 3929 nt UTR 3 hits 1667 3040 3413

-----1-----1-----1-----  
-----  
>ENSMUSG00000024758 hs-mir-148b 1667 1674  
UCAGUGCAUCACAGAACUUUGU&UGGUCUAUGGGGUCUCCUAACAAGGGACCUCGUUCUGCACUGGA  
(((((((((.(((((.(((((&.....))))))..))))).))))). -22.40  
>ENSMUSG00000024758 hs-mir-148b 3040 3047  
UCAGUGCAUCACAGAACUUUGU&AAGUGGGCCCCACCUGGAGUUCUGACUGGCAAGCCUGCACUGC  
.(((((((((.(((((.(((((&.....))))))..))))).))))). -23.40  
>ENSMUSG00000024758 hs-mir-148b 3413 3420  
UCAGUGCAUCACAGAACUUUGU&AGGGAUUUCUUUCUUGUUUCUCACCACAAGGGCUGCACUGGC  
(((((((((......(((((&.....))))))..))))). -18.10  
mir-148b ENSRNOG00000021202 3858 nt UTR 3 hits 1612 2344 3700

-----1-----1-----  
-----  
>ENSRNOG00000021202 hs-mir-148b 1612 1619  
UCAGUGCAUCACAGAACUUUGU&UGGUCUUUGGGGUCUCCCAACCAGGGACCCCAUUCUGCACUGGA  
(((((((((......(((((&.....))))))..))))). -17.73  
>ENSRNOG00000021202 hs-mir-148b 2344 2351  
UCAGUGCAUCACAGAACUUUGU&UGGUCUUUGGGGUCUCCCAACCAGGGACCCCAUUCUGCACUGGA  
(((((((((......(((((&.....))))))..))))). -17.73  
>ENSRNOG00000021202 hs-mir-148b 3700 3707  
UCAGUGCAUCACAGAACUUUGU&AGGUGGGCCCCACCUGGAGUUCUGACGGGCAAGCCUGCACUGC  
.(((((((((.(((((.(((((&.....))))))..))))).))))). -23.00

miRNA: mir-148b  
Human predicted target: ENSG00000184602  
Mouse predicted target: ENSMUSG00000037972  
Rat predicted target: ENSRNOG00000002463  
Hs Gene description: STANNIN (AG8\_1). [Source:SWISSPROT;Acc:075324]  
NM\_003498  
mir-148b ENSG00000184602 4833 nt UTR 2 hits 138 967

-----1-----1-----  
-----  
>ENSG00000184602 hs-mir-148b 138 145  
UCAGUGCAUCACAGAACUUUGU&UUGCUGGCAUGGCCUCUGCGGGCUUCGUCAUCGCAUGCACUGAU

```

(((((((((((((.....)))))).).....))))). -21.23
>ENSG00000184602 hs-mir-148b      967      974
UCAGUGCAUCACAGAACUUUGU&AGGUUGUAUGUUUGUGUUGGUGUUUCCUAUUUUCUGCACUGGA
(((((((((((((.....&.....)))))).).....))))). -22.21
mir-148b  ENSMUSG00000037972  4388 nt UTR      4 hits 136 492 905 3222
-----1-----1-----1-----1-----
-----1-----
>ENSMUSG00000037972 hs-mir-148b      136      143
UCAGUGCAUCACAGAACUUUGU&UUGCUGGCAUGGUCUCCUCGGGCUUUGUCAUCGCAUGCACUGGC
(((((((((((((.....&.....)))))).).....))))). -18.70
>ENSMUSG00000037972 hs-mir-148b      492      499
UCAGUGCAUCACAGAACUUUGU&UUGGACUGGUCAGGCCCCAGUUGCCCUCGGCAGGGUGCACUGAG
(((((((((((((.....&.....)))))).).....))))). -21.30
>ENSMUSG00000037972 hs-mir-148b      905      912
UCAGUGCAUCACAGAACUUUGU&GAAGACAAGGUUUUGUUUUGUAUUUAAUAAUUUUCUGCACUGGA
(((((((((((((.....&.....)))))).).....))))). -25.20
>ENSMUSG00000037972 hs-mir-148b      3222     3229
UCAGUGCAUCACAGAACUUUGU&GUGGUUCUUGUAGAGUUGAGGCCCAACAGACUUGCACUGC
.(((((((((((((.....&..)))))).).....))))). -18.61
mir-148b  ENSRNOG00000002463  4485 nt UTR      5 hits 133 483 882 2129 3328
-----1-----1-----1-----1-----
-----1-----
>ENSRNOG00000002463 hs-mir-148b      133      140
UCAGUGCAUCACAGAACUUUGU&UUGCUGGCAUGGUCUCCUUGGGCUUUGACAUCGCAUGCACUGAC
(((((((((((((.....&.....)))))).).....))))). -18.83
>ENSRNOG00000002463 hs-mir-148b      483      490
UCAGUGCAUCACAGAACUUUGU&UUCGACUGGUCAGGCCCCAGGUGCCCUUGGCAGGGUGCACUGAG
(((((((((((((.....&.....)))))).).....))))). -22.40
>ENSRNOG00000002463 hs-mir-148b      882      889
UCAGUGCAUCACAGAACUUUGU&GAAGGCAAGGUUUUGUUUUUGUAUUUAAUAAUUUUCUGCACUGGA
(((((((((((((.....&.....)))))).).....))))). -21.70
>ENSRNOG00000002463 hs-mir-148b      2129     2136
UCAGUGCAUCACAGAACUUUGU&CUGCCCUUGGUUAUCACUAGCUACCUUUUCAAGUGUGCACUGGA
(((((((((((((.....&.....)))))).).....))))). -17.70
>ENSRNOG00000002463 hs-mir-148b      3328     3335
UCAGUGCAUCACAGAACUUUGU&GUGGUUCUUGUGGAGUUGAGGCCCCACAGACUUGCACUGC
.(((((((((((((.....&..)))))).).....))))). -19.79

```

miRNA: mir-148

Human predicted target: ENSG00000105983

Mouse predicted target: ENSMUSG00000010721

Rat predicted target: ENSRNOG00000005306

Hs Gene description: LIMB REGION 1 PROTEIN; LIMB REGION 1.

[Source:RefSeq;Acc:NM\_022458]

mir-148 ENSG00000105983 5201 nt UTR 2 hits 1257 4010

-----1-----  
-----1-----  
>ENSG00000105983 hs-mir-148 1257 1264  
UCAGUGCACUACAGAACUUUGU&GUAGUUAUGCAGUCUGCUAUUAUAAUAUGUUCACAUGCACUGU  
.((((((((.....((((.....&.....)))))))).))))). -17.40  
>ENSG00000105983 hs-mir-148 4010 4017  
UCAGUGCACUACAGAACUUUGU&CUGAAGCAAAGUACUGUGUACGCAAUACUUGUUGCACUGU  
.(((((((((((((((((.....&.....)))))).)))).)))). -20.33  
mir-148 ENSMUSG00000010721 2000 nt UTR 2 hits 1026 1849  
-----1-----

1-----  
>ENSMUSG00000010721 hs-mir-148 1026 1033  
UCAGUGCACUACAGAACUUUGU&AGCACACAUUUCACAGAAUAUAGUGAUGCUCACAUGCACUGU  
.((((((((.....((((.....&.....)))))).)))). -16.70  
>ENSMUSG00000010721 hs-mir-148 1849 1856  
UCAGUGCACUACAGAACUUUGU&UGUCUUAACCUUGAUUCUUGGGCCUUCUGUGGUUGAUGCACUGC  
.(((((((((((((((((.....&.....)))))))).)))). -23.30  
mir-148 ENSRNOG00000005306 2000 nt UTR 2 hits 1889 1967

-----1-----  
-1--1-  
>ENSRNOG00000005306 hs-mir-148 1889 1896  
UCAGUGCACUACAGAACUUUGU&ACCGGAGGGAGGUACUGGGUCCAGGUGCUGUCCUGCACUGGG  
((((((((.....((((.....&.....)))))).)))). -22.20  
>ENSRNOG00000005306 hs-mir-148 1967 1974  
UCAGUGCACUACAGAACUUUGU&GGACAGCCGUGUGCACACAGUUGCACGCAGGGUCCUGCACUGC  
.((((((((.....((((.....&.....)))))))).)))). -18.70

miRNA: mir-148  
Human predicted target: ENSG00000113742  
Mouse predicted target: ENSMUSG00000020300  
Rat predicted target: ENSRNOG00000020689  
mir-148 ENSG00000113742 6172 nt UTR 2 hits 1214 2384  
-----1-----

-----1-----  
>ENSG00000113742 hs-mir-148 1214 1221  
UCAGUGCACUACAGAACUUUGU&ACAGUUAAGGUGAAGUAGUUGCAAAGUGUUUUGCACUGU  
.((((((((.....((((.....&.....)))))))).)))). -22.00  
>ENSG00000113742 hs-mir-148 2384 2391  
UCAGUGCACUACAGAACUUUGU&CAGUGCUCUGCAUACAUUUUAAUUAUGAAUGUCGUGCACUGGC  
((((((((.....((((.....&.....)))))).)))). -21.50  
mir-148 ENSMUSG00000020300 2665 nt UTR 2 hits 1146 2318  
-----1-----

-----1-----  
>ENSMUSG00000020300 hs-mir-148 1146 1153

UCAGUGCACUACAGAACUUUGU&GUUAAAAAAAAAAGUCAAGUAGUUGCAAAGUGUUUUGCACUGU  
.(((((((...(((...(((...(((...&.....)))))))))). -22.00  
>ENSMUSG00000020300 hs-mir-148 2318 2325  
UCAGUGCACUACAGAACUUUGU&CAGUGCUCUGCAUACAUUUUAAAUAUGAAUGUUGUGCACUGGC  
(((((((...(((...(((...(((...&.....)))))))))). -21.50  
mir-148 ENSRNOG00000020689 2667 nt UTR 2 hits 1149 2285  
-----1-----  
-----1-----  
>ENSRNOG00000020689 hs-mir-148 1149 1156  
UCAGUGCACUACAGAACUUUGU&GUUAAAAAAAAAAGUCAAGUAGUUGCAAAGUGUUUUGCACUGU  
.(((((((...(((...(((...(((...&.....)))))))))). -22.00  
>ENSRNOG00000020689 hs-mir-148 2285 2292  
UCAGUGCACUACAGAACUUUGU&CAGUGCUCUGCAUACAUUUUAAAUAUGAAUGUUGUGCACUGGC  
(((((((...(((...(((...(((...&.....)))))))))). -21.50

miRNA: mir-148

Human predicted target: ENSG00000118707

Mouse predicted target: ENSMUSG00000038041

Rat predicted target: ENSRNOG00000020278

Hs Gene description: HOMEBOX PROTEIN TGIF2 (TGFB-INDUCED FACTOR 2) (5'-TG-3' INTERACTING FACTOR 2) (TGF(BETA)-INDUCED TRANSCRIPTION FACTOR 2).

[Source:SWISSPROT;Acc:Q9GZN2] NM\_021809

mir-148 ENSG00000118707 4521 nt UTR 3 hits 159 566 2288

-----1-----1-----  
-----1-----  
-----1-----

>ENSG00000118707 hs-mir-148 159 166  
UCAGUGCACUACAGAACUUUGU&GAGGUCUUCAACAGGAAGAUGCCAGCUGGCACCACUGCACUGU  
.(((((((...(((...(((...(((...&.....)))))))))). -15.50  
>ENSG00000118707 hs-mir-148 566 573  
UCAGUGCACUACAGAACUUUGU&ACGGCAGUAGUUAGCCCAGGUGUGGGGAACGAGAGUGCACUGC  
.(((((((...(((...(((...(((...&.....)))))))))). -21.60  
>ENSG00000118707 hs-mir-148 2288 2295  
UCAGUGCACUACAGAACUUUGU&GUAUUGGGCUGAGGUGGGGAUUUCCCUCCCCACAGUGCACUGAG  
(((((((...(((...(((...(((...&.....)))))))))). -21.50  
mir-148 ENSMUSG00000038041 3882 nt UTR 2 hits 126 1678  
-----1-----1-----  
-----1-----

>ENSMUSG00000038041 hs-mir-148 126 133  
UCAGUGCACUACAGAACUUUGU&CCAUUCUGUCCAGUCCUCAGCGGAUGUCGUGCGCUGCACUGU  
.(((((((...(((...(((...(((...&.....)))))))))). -19.80  
>ENSMUSG00000038041 hs-mir-148 1678 1685  
UCAGUGCACUACAGAACUUUGU&GAUACUAGGAUGAGGGAUUUUCUUUCCCCCCACAGUGCACUGAG  
(((((((...(((...(((...(((...&.....)))))))))). -21.50  
mir-148 ENSRNOG00000020278 3609 nt UTR 2 hits 117 1400



-----1-----1-----  
-----  
>ENSRNOG00000020278 hs-mir-148 117 124  
UCAGUGCACUACAGAACUUUGU&CAUCAGGAUCAUCUGUCCAGCGGGCCUCAGCUCGCUGCACUGAG  
((((((((((((((((.....&.....)))))))).)).....)))))))). -18.56  
>ENSRNOG00000020278 hs-mir-148 1400 1407  
UCAGUGCACUACAGAACUUUGU&GGGUGAUACUAGGAUGAGGGAAUUUUCACACAGUGCACUGAG  
((((((((((((((((.....&.....)))))))).)).....)))))))). -21.50

miRNA: mir-148

Human predicted target: ENSG00000133318

Mouse predicted target: ENSMUSG00000024758

Rat predicted target: ENSRNOG00000021202

Hs Gene description: RETICULON PROTEIN 3 (NEUROENDOCRINE-SPECIFIC PROTEIN-LIKE 2) (NSP-LIKE PROTEIN II) (NSPLII). [Source:SWISSPROT;Acc:O95197]

NM\_006054

mir-148 ENSG00000133318 3683 nt UTR 2 hits 869 1153

-----1-----1-----  
-----  
>ENSG00000133318 hs-mir-148 869 876  
UCAGUGCACUACAGAACUUUGU&UUUUCUUACUUAUAAAUAUAAUGUCUGUAACUGCUGGCACUGC  
((((((((((((((((.....&.....)))))))).)).....)))))))). -23.70

>ENSG00000133318 hs-mir-148 1153 1160  
UCAGUGCACUACAGAACUUUGU&UUCUCACUCAUAGUCAUGAUCCUUCAGAGGGAAUAUGCACUGGC  
((((((((((((((((.....&.....)))))))).)).....)))))))). -18.84

mir-148 ENSMUSG00000024758 3929 nt UTR 3 hits 1667 3040 3413

-----1-----1-----  
-----  
>ENSMUSG00000024758 hs-mir-148 1667 1674  
UCAGUGCACUACAGAACUUUGU&UGGUCUAUGGGGUCUCCUAACAAGGGACCUCGUUCUGCACUGGA  
((((((((((((((((.....&.....)))))))).)).....)))))))). -23.30

>ENSMUSG00000024758 hs-mir-148 3040 3047  
UCAGUGCACUACAGAACUUUGU&AAGUGGGCCCAACUGGAGUUCUGACUGGCAAGCCUGCACUGC  
((((((((((((((((.....&.....)))))))).)).....)))))))). -23.40

>ENSMUSG00000024758 hs-mir-148 3413 3420  
UCAGUGCACUACAGAACUUUGU&AGGGAAUUUCUUUCUUGUUUCUCACCACAAGGGCUGCACUGGC  
((((((((((((((((.....&.....)))))))).)).....)))))))). -18.10

mir-148 ENSRNOG00000021202 3858 nt UTR 3 hits 1612 2344 3700

-----1-----1-----  
-----  
>ENSRNOG00000021202 hs-mir-148 1612 1619  
UCAGUGCACUACAGAACUUUGU&UGGUCUUUGGGGUCUCCCAACCAGGGACCCCAUUCUGCACUGGA  
((((((((((((((((.....&.....)))))))).)).....)))))))). -17.73

>ENSRNOG00000021202 hs-mir-148 2344 2351  
UCAGUGCACUACAGAACUUUGU&UGGUCUUUGGGGUCUCCCAACCAGGGACCCCAUUCUGCACUGGA

((((((((.....(((((.&.....)))))).....)))))).. -17.73  
>ENSRNOG00000021202 hs-mir-148 3700 3707  
UCAGUGCACUACAGAACUUUGU&AGGUGGGCCCCACCUGGAGUUCUGACGGGCAAGCCUGCACUGC  
(((((((((((((((((.&.....)))))).....)))))).. -23.40

miRNA: mir-148

Human predicted target: ENSG00000134970  
Mouse predicted target: ENSMUSG00000033184  
Rat predicted target: ENSRNOG00000003691

mir-148 ENSG00000134970 4703 nt UTR 2 hits 452 953

-----1-----1-----  
-----

>ENSG00000134970 hs-mir-148 452 459  
UCAGUGCACUACAGAACUUUGU&ACCAAUGUGAUGAACUGUAGCCCAAGCCCUAUUCUGCACUGU  
(((((((((((((((((.&.....)))))).....)))))).. -19.73

>ENSG00000134970 hs-mir-148 953 960  
UCAGUGCACUACAGAACUUUGU&CAUAAGUGCCAUAUAUUUAUCCUCAUGGAUGUGAUGCACUGAA  
(((((((((((((((((.&.....)))))).....)))))).. -21.20

mir-148 ENSMUSG00000033184 2423 nt UTR 2 hits 455 879

-----1-----1-----  
-----

>ENSMUSG00000033184 hs-mir-148 455 462  
UCAGUGCACUACAGAACUUUGU&AACCAAUGUGAUUAACUGUAGCCCAAGCCCUAUUCUGCACUGC  
(((((((((((((((((.&.....)))))).....)))))).. -19.61

>ENSMUSG00000033184 hs-mir-148 879 886  
UCAGUGCACUACAGAACUUUGU&ACAUAAGUGCCAUAUGUCUUAUCCUCACAGUGUAAUGCACUGC  
(((((((((((((((((.&.....)))))).....)))))).. -18.90

mir-148 ENSRNOG00000003691 2691 nt UTR 3 hits 254 637 1041

-----1-----1-----1-----  
-----

>ENSRNOG00000003691 hs-mir-148 254 261  
UCAGUGCACUACAGAACUUUGU&AACCAAUGUGAUUAACUGUAGCCCAAGCCCUAUUCUGCACUGC  
(((((((((((((((((.&.....)))))).....)))))).. -19.61

>ENSRNOG00000003691 hs-mir-148 637 644  
UCAGUGCACUACAGAACUUUGU&ACAUAAGUGCCAUAUGUCUUCUCCUCAUGAUGUGAUGCACUGAG  
(((((((((((((((((.&.....)))))).....)))))).. -20.75

>ENSRNOG00000003691 hs-mir-148 1041 1048  
UCAGUGCACUACAGAACUUUGU&ACAUAAGUGCCAUAUGUCUUCUCCUCAUGAUGUGAUGCACUGAG  
(((((((((((((((((.&.....)))))).....)))))).. -20.75

miRNA: mir-148

Human predicted target: ENSG00000162374  
Mouse predicted target: ENSMUSG00000028546  
Rat predicted target: ENSRNOG00000008076  
Rat predicted target: ENSRNOG00000008089

Hs Gene description: ELAV-LIKE PROTEIN 4 (PARANEOPLASTIC ENCEPHALOMYELITIS ANTIGEN HUD) (HU-ANTIGEN D). [Source:SWISSPROT;Acc:P26378] NM\_021952

mir-148 ENSG00000162374 2221 nt UTR 2 hits 840 1802  
-----1-----1--

>ENSG00000162374 hs-mir-148 840 847  
UCAGUGCACUACAGAACUUUGU&UUUAGGGGAAAUUGACAACUUUGUCGCGUUCAUACUGCACUGGU  
((((((((((..(((.....&.....)))))).)))).)))). -19.30

>ENSG00000162374 hs-mir-148 1802 1809  
UCAGUGCACUACAGAACUUUGU&ACAAAUGACUGAGGGAGCACUCUCCCACGUCCAGUGCACUGAU  
((((((((((..(((.....&.....)))))).)))).)))). -21.30

mir-148 ENSMUSG00000028546 2000 nt UTR 2 hits 828 1792  
-----1-----1--

>ENSMUSG00000028546 hs-mir-148 828 835  
UCAGUGCACUACAGAACUUUGU&UUUAGGGGAAAUUGACAACUUUGUCGCGUUCAUACUGCACUGGU  
((((((((((..(((.....&.....)))))).)))).)))). -19.30

>ENSMUSG00000028546 hs-mir-148 1792 1799  
UCAGUGCACUACAGAACUUUGU&ACAAAAGGACCGUGGGAGCAAACUCCCACGUCCAGUGCACUGAU  
((((((((((..(((.....&.....)))))).)))).)))). -21.00

mir-148 ENSRNOG00000008076 2000 nt UTR 2 hits 826 1785  
-----1-----1--

>ENSRNOG00000008076 hs-mir-148 826 833  
UCAGUGCACUACAGAACUUUGU&UUUAGGGGAAAUUGACAACUUUGUCGCGUUCAUACUGCACUGGU  
((((((((((..(((.....&.....)))))).)))).)))). -19.30

>ENSRNOG00000008076 hs-mir-148 1785 1792  
UCAGUGCACUACAGAACUUUGU&ACAAAAGGACUGUGGGAGCAAACUCCCACAUCCAGUGCACUGAU  
((((((((((..(((.....&.....)))))).)))).)))). -24.95

mir-148 ENSRNOG00000008089 2000 nt UTR 2 hits 826 1785  
-----1-----1--

>ENSRNOG00000008089 hs-mir-148 826 833  
UCAGUGCACUACAGAACUUUGU&UUUAGGGGAAAUUGACAACUUUGUCGCGUUCAUACUGCACUGGU  
((((((((((..(((.....&.....)))))).)))).)))). -19.30

>ENSRNOG00000008089 hs-mir-148 1785 1792  
UCAGUGCACUACAGAACUUUGU&ACAAAAGGACUGUGGGAGCAAACUCCCACAUCCAGUGCACUGAU  
((((((((((..(((.....&.....)))))).)))).)))). -24.95

miRNA: mir-148

Human predicted target: ENSG00000184602

Mouse predicted target: ENSMUSG00000037972

Rat predicted target: ENSRNOG00000002463

Hs Gene description: STANNIN (AG8\_1). [Source:SWISSPROT;Acc:075324]  
NM\_003498

mir-148 ENSG00000184602 4833 nt UTR 2 hits 138 967

```

-----1-----1-----
-----
-----
>ENSG00000184602 hs-mir-148      138      145
UCAGUGCACUACAGAACUUUGU&UUGCUGGCAUGGCCUCUGCGGGCUUCGUCAUCGCAUGCACUGAU
((((((((((..((((((..(((&.....))))).)))).)))).)).....)))))))). -21.33
>ENSG00000184602 hs-mir-148      967      974
UCAGUGCACUACAGAACUUUGU&AGGUUGUAUGUUUUGUGUUGGUGUUCCUAUUUUCUGCACUGGA
((((((((((..((((((.....&.....)))))))).)).....)))))))). -19.71
mir-148      ENSMUSG00000037972      4388 nt UTR      4 hits 136 492 905 3222
-----1-----1-----1-----
-----1-----
-----
>ENSMUSG00000037972 hs-mir-148      136      143
UCAGUGCACUACAGAACUUUGU&UUGCUGGCAUGGUCUCCUCGGGCUUUGUCAUCGCAUGCACUGGC
((((((((((..((((((..(((&.....))))).)))).)))).)).....)))))))). -16.80
>ENSMUSG00000037972 hs-mir-148      492      499
UCAGUGCACUACAGAACUUUGU&UUGGACUGGUCAGGCCCCAGUUGCCCUCGGCAGGGUGCACUGAG
((((((((((..((((((.....&.....))))).)))).)).....)))))))). -22.00
>ENSMUSG00000037972 hs-mir-148      905      912
UCAGUGCACUACAGAACUUUGU&GAAGACAAGGUUUUUGUUUUUGUAUUUAAUAAUUUUCUGCACUGGA
((((((((((..((((((((((((&.....)))))))).)))).)).....)))))))). -25.90
>ENSMUSG00000037972 hs-mir-148      3222      3229
UCAGUGCACUACAGAACUUUGU&GUGGUUCUUUGUAGAGUUGAGGCCCAACAGACUUGCACUGC
.((((((((((((((((((((.....&..)))))))).)))).)).....)))))))). -20.09
mir-148      ENSRNOG00000002463      4485 nt UTR      5 hits 133 483 882 2129 3328
-----1-----1-----1-----
-----1-----
-----
>ENSRNOG00000002463 hs-mir-148      133      140
UCAGUGCACUACAGAACUUUGU&UUGCUGGCAUGGUCUCCUUGGGCUUUGACAUCGCAUGCACUGAC
((((((((((..((((((..(((&.....))))).)))).)))).)).....)))))))). -18.73
>ENSRNOG00000002463 hs-mir-148      483      490
UCAGUGCACUACAGAACUUUGU&UUCGACUGGUCAGGCCCCAGGUGCCCUUGGCAGGGUGCACUGAG
((((((((((..((((((..(((&.....))))).)))).)))).)).....)))))))). -23.10
>ENSRNOG00000002463 hs-mir-148      882      889
UCAGUGCACUACAGAACUUUGU&GAAGGCAAGGUUUGGUUUUUGUAUUUAAUAAUUUUCUGCACUGGA
((((((((((..((((((((((((&.....)))))))).)))).)).....)))))))). -22.40
>ENSRNOG00000002463 hs-mir-148      2129      2136
UCAGUGCACUACAGAACUUUGU&CUGCCCUUGGUUAUCACUAGCUACCUUUUCAAGUGUGCACUGGA
((((((((((.....((((((((.....&.....))))).)))).)).....)))))))). -19.90
>ENSRNOG00000002463 hs-mir-148      3328      3335
UCAGUGCACUACAGAACUUUGU&GUGGUUCUUUGUGGAGUUGAGGCCCCACAGACUUGCACUGC
.((((((((((((((((((((.....&..)))))))).)))).)).....)))))))). -19.79

```

miRNA: mir-152  
Human predicted target: ENSG00000105983

Mouse predicted target: ENSMUSG00000010721  
Rat predicted target: ENSRNOG00000005306  
Hs Gene description: LIMB REGION 1 PROTEIN; LIMB REGION 1.  
[Source:RefSeq;Acc:NM\_022458]

mir-152 ENSG00000105983 5201 nt UTR 2 hits 1257 4010  
-----1-----  
-----1-----

>ENSG00000105983 hs-mir-152 1257 1264  
UCAGUGCAUGACAGAACUUGG&GUAGUUAUGCAGUCUGCUAUAAUAAUUAUGUUCACAUGCACUGU  
.((((((((((...(((...&.....)))))).)))))))). -21.90  
>ENSG00000105983 hs-mir-152 4010 4017  
UCAGUGCAUGACAGAACUUGG&CUGAAGCAAAGUACUGUGUACGCAAUUACUUGUUGCACUGU  
.((((((((((...(((...&.....)))))).))))). -18.81

mir-152 ENSMUSG00000010721 2000 nt UTR 2 hits 1026 1849  
-----1-----  
1-----

>ENSMUSG00000010721 hs-mir-152 1026 1033  
UCAGUGCAUGACAGAACUUGG&AGCACACAUUUCACAGAAUUAUAGUGAUGCUCACAUGCACUGU  
.((((((((((...(((...&.....)))))).)))))))). -20.30  
>ENSMUSG00000010721 hs-mir-152 1849 1856  
UCAGUGCAUGACAGAACUUGG&UGUCUUACCUUGAUUCUUGGGCCUUCUGUGGUUGAUGCACUGC  
.((((((((((...(((...&.....)))))).))))). -21.20

mir-152 ENSRNOG00000005306 2000 nt UTR 2 hits 1889 1967  
-----1-----  
-1--1-

>ENSRNOG00000005306 hs-mir-152 1889 1896  
UCAGUGCAUGACAGAACUUGG&ACCUGGAGGGAGGUACUGGGUCCAGGUGCUGUCCUGCACUGGG  
((((((((((...(((...&.....)))))).)))))))). -30.90  
>ENSRNOG00000005306 hs-mir-152 1967 1974  
UCAGUGCAUGACAGAACUUGG&GGACAGCCGUGUGCACACAGUUGCACGCAGGGUCCUGCACUGC  
.((((((((((...(((...&.....)))))).)))))))). -20.70

miRNA: mir-152

Human predicted target: ENSG00000106511  
Mouse predicted target: ENSMUSG00000036144  
Rat predicted target: ENSRNOG00000006588  
Hs Gene description: HOMEBOX PROTEIN MOX-2 (MESENCHYME HOMEBOX 2)  
(GROWTH ARREST-SPECIFIC HOMEBOX). [Source:SWISSPROT;Acc:P50222] NM\_005924

mir-152 ENSG00000106511 3175 nt UTR 2 hits 281 434  
-----1-----1-----

>ENSG00000106511 hs-mir-152 281 288  
UCAGUGCAUGACAGAACUUGG&GUAUGGCAGUGAGCAGGUAUGUGUUUGCUUUUGCUUGCACUGAA  
((((((((((...(((...&.....)))))).)))))))). -22.70  
>ENSG00000106511 hs-mir-152 434 441  
UCAGUGCAUGACAGAACUUGG&AUGUGUAUACAGUGGGCAGGUAUUUGCUUUUGCUUGCACUGAA

(((((((((.(((((((((&.....))))).)))))). -22.11  
mir-152 ENSMUSG00000036144 3121 nt UTR 2 hits 271 427

-----1-----1-----  
-----

>ENSMUSG00000036144 hs-mir-152 271 278  
UCAGUGCAUGACAGAACUUGG&UAUGACAGAGAGGGAGAUGGAUGUUUGCUUUGGCUUGCACUGAA  
(((((((((.(((((((((&.....))))).)))))). -20.20

>ENSMUSG00000036144 hs-mir-152 427 434  
UCAGUGCAUGACAGAACUUGG&AUGUGUGUGACACUAGGCAGGUAAUUGCUUUUGCUUGCACUGAA  
(((((((((.(((((((((&.....))))).)))))). -22.11

mir-152 ENSRNOG00000006588 3146 nt UTR 2 hits 275 425  
-----1-----1-----  
-----

>ENSRNOG00000006588 hs-mir-152 275 282  
UCAGUGCAUGACAGAACUUGG&UAUGACAGAGAGGGAGAUGAAUGUUUGCUUUGGCUUGCACUGAA  
(((((((((.(((((((((&.....))))).)))))). -20.20

>ENSRNOG00000006588 hs-mir-152 425 432  
UCAGUGCAUGACAGAACUUGG&AUGUGUGUGACACUGGGCAGGUAAUUGCUUUUGCUUGCACUGAA  
(((((((((.(((((((((&.....))))).)))))). -22.11

miRNA: mir-152

Human predicted target: ENSG00000113742  
Mouse predicted target: ENSMUSG00000020300  
Rat predicted target: ENSRNOG00000020689

mir-152 ENSG00000113742 6172 nt UTR 2 hits 1214 2384  
-----1-----  
-----

-----1-----  
-----

>ENSG00000113742 hs-mir-152 1214 1221  
UCAGUGCAUGACAGAACUUGG&ACAGUUAATAAAGUGAAGUAGUUGCAAAGUGUUUUGCACUGU  
(((((((((.(((((((((&.....))))).)))))). -19.10

>ENSG00000113742 hs-mir-152 2384 2391  
UCAGUGCAUGACAGAACUUGG&CAGUGCUCUGCAUACAUUUUAAAUAUGAAUGUCGUGCACUGGC  
(((((((((.(((((((((&.....))))).)))))). -25.60

mir-152 ENSMUSG00000020300 2665 nt UTR 2 hits 1146 2318  
-----1-----  
-----

-----1-----  
-----

>ENSMUSG00000020300 hs-mir-152 1146 1153  
UCAGUGCAUGACAGAACUUGG&GUUAAAAAAAAAAGUCAAGUAGUUGCAAAGUGUUUUGCACUGU  
(((((((((.(((((((((&.....))))).)))))). -20.00

>ENSMUSG00000020300 hs-mir-152 2318 2325  
UCAGUGCAUGACAGAACUUGG&CAGUGCUCUGCAUACAUUUUAAAUAUGAAUGUUGUCACUGGC  
(((((((((.(((((((((&.....))))).)))))). -22.90

mir-152 ENSRNOG00000020689 2667 nt UTR 2 hits 1149 2285  
-----1-----  
-----

-----1-----  
-----

>ENSRNOG00000020689 hs-mir-152 1149 1156  
UCAGUGCAUGACAGAACUUGG&GUUAAAAAAAAAAGUCAAGUAGUUGCAAAGUGUUUUGCACUGU  
.(((((((((((((.....)))))).....)))))))). -20.00  
>ENSRNOG00000020689 hs-mir-152 2285 2292  
UCAGUGCAUGACAGAACUUGG&CAGUGCUCUGCAUACAUUUUAAAUAUGAAUGUUGGCACUGGC  
(((((((((((((.....&.....)))))).....)))))))). -22.90

miRNA: mir-152

Human predicted target: ENSG00000121871  
Mouse predicted target: ENSMUSG00000048304  
Rat predicted target: ENSRNOG00000009821  
Hs Gene description: NM\_014926

mir-152 ENSG00000121871 3175 nt UTR 2 hits 1304 1437  
-----1-----1-----  
-----

>ENSG00000121871 hs-mir-152 1304 1311  
UCAGUGCAUGACAGAACUUGG&UGUUUACACAGAAAGUAAUUUAUUAACGGGUUGAUGCACUGU  
.(((((((((((((.....)))))).....)))))))). -22.40  
>ENSG00000121871 hs-mir-152 1437 1444

UCAGUGCAUGACAGAACUUGG&CUUGAAUUUAUGAAUUUCAGUCUUAGUAACCAGUGAUGCACUGU  
.(((((((((((((.....)))))).....)))))))). -19.20  
mir-152 ENSMUSG00000048304 2000 nt UTR 2 hits 628 1354  
-----1-----1-----  
-----

>ENSMUSG00000048304 hs-mir-152 628 635  
UCAGUGCAUGACAGAACUUGG&CAGCAACUCCUACAUAACACUUAGGUCCCUCAGCCUGCACUGGG  
(((((((((((((.....)))))).....)))))))). -19.10  
>ENSMUSG00000048304 hs-mir-152 1354 1361

UCAGUGCAUGACAGAACUUGG&GGAUAUACAGAAAGCUAAAUGAUUAACAAGUUUGAUGCACUGU  
.(((((((((((((.....)))))).....)))))))). -23.50  
mir-152 ENSRNOG00000009821 2000 nt UTR 2 hits 629 1320  
-----1-----1-----  
-----

>ENSRNOG00000009821 hs-mir-152 629 636  
UCAGUGCAUGACAGAACUUGG&CAACAAAUCCUACAUAACACGUAGGUCCCACAGCCUGCACUGGG  
(((((((((((((.....)))))).....)))))))). -17.80  
>ENSRNOG00000009821 hs-mir-152 1320 1327

UCAGUGCAUGACAGAACUUGG&UGGUUAUACAGAAAGCUAAAUGAUUAACAAGUUCGAUGCACUGU  
.(((((((((((((.....)))))).....)))))))). -25.30

miRNA: mir-152

Human predicted target: ENSG00000134970  
Mouse predicted target: ENSMUSG00000033184  
Rat predicted target: ENSRNOG00000003691  
mir-152 ENSG00000134970 4703 nt UTR 2 hits 452 953

-----1-----1-----  
-----  
-----

>ENSG00000134970 hs-mir-152 452 459  
UCAGUGCAUGACAGAACUUGG&ACCAAAUGUGAUGAACUGUAGCCCAAGCCCUAUUCUGCACUGU  
.(((((((((((((.&.....)))))).)).)).))))). -22.50  
>ENSG00000134970 hs-mir-152 953 960

UCAGUGCAUGACAGAACUUGG&CAUAAGUGCCAUAUAUUUAUCCUCAUGGAUGUGAUGCACUGAA  
(((((((((((((.&.....)))))).)).)).))))). -23.80  
mir-152 ENSMUSG00000033184 2423 nt UTR 2 hits 455 879  
-----1-----1-----

-----  
>ENSMUSG00000033184 hs-mir-152 455 462  
UCAGUGCAUGACAGAACUUGG&AACCAAAUGUGAUUAACUGUAGCCAAGCCCUAUUCUGCACUGC  
.(((((((((((((.&.....)))))).)).)).))))). -22.20  
>ENSMUSG00000033184 hs-mir-152 879 886

UCAGUGCAUGACAGAACUUGG&ACAUAAUGUGCCAUAUGUCUUAUCCUCACAGUGUAAUGCACUGC  
.(((((((((((((.&.....)))))).)).)).))))). -18.90  
mir-152 ENSRNOG00000003691 2691 nt UTR 3 hits 254 637 1041  
-----1-----1-----1-----

-----  
>ENSRNOG00000003691 hs-mir-152 254 261  
UCAGUGCAUGACAGAACUUGG&AACCAAAUGUGAUUAACUGUAGCCAAGCCCUAUUCUGCACUGC  
.(((((((((((((.&.....)))))).)).)).))))). -22.20  
>ENSRNOG00000003691 hs-mir-152 637 644

UCAGUGCAUGACAGAACUUGG&ACAUAAUGUGCCAUAUGUCUUCUCCUCAUGAUGUGAUGCACUGAG  
(((((((((((((.&.....)))))).)).)).))))). -24.30  
>ENSRNOG00000003691 hs-mir-152 1041 1048  
UCAGUGCAUGACAGAACUUGG&ACAUAAUGUGCCAUAUGUCUUCUCCUCAUGAUGUGAUGCACUGAG  
(((((((((((((.&.....)))))).)).)).))))). -24.30

miRNA: mir-152

Human predicted target: ENSG00000155111  
Mouse predicted target: ENSMUSG00000038481  
Rat predicted target: ENSRNOG00000000583

mir-152 ENSG00000155111 6557 nt UTR 3 hits 1220 2617 4063  
-----1-----

-----  
>ENSG00000155111 hs-mir-152 1220 1227  
UCAGUGCAUGACAGAACUUGG&UACUGAAACUUAUUCUAUCAAGAAUCUUUUUCAUUGCACUGAA  
(((((((((((((.&.....)))))).)).)).))))). -22.10  
>ENSG00000155111 hs-mir-152 2617 2624

UCAGUGCAUGACAGAACUUGG&AAUCUCCAUAUCCACACAUGACUGAGUCCUAUCCCUGCACUGGU  
(((((((((((((.&.....)))))).)).)).))))). -23.60  
>ENSG00000155111 hs-mir-152 4063 4070



UCAGUGCAUGACAGAACUUGG&AUAUGUAUGUAUUUAUUAUAAAAAAAAAACCCUUAUUGCACUGU  
.((((((((.....&.....)))))))). -16.30  
mir-152 ENSMUSG00000038481 4297 nt UTR 3 hits 1164 2505 3538

-----1-----  
-----1-----1-----

>ENSMUSG00000038481 hs-mir-152 1164 1171  
UCAGUGCAUGACAGAACUUGG&UACUGAGACUUAACGCUGUCAAGAAUCUUUUGUAUUGCACUGAA  
((((((((.....&.....)))))))). -23.60

>ENSMUSG00000038481 hs-mir-152 2505 2512  
UCAGUGCAUGACAGAACUUGG&AACUCCACUCUCUGUACAGCUGGGUGCCACAUCACUGCACUGAU  
((((((((.....&.....)))))))). -22.50

>ENSMUSG00000038481 hs-mir-152 3538 3545  
UCAGUGCAUGACAGAACUUGG&GAGUGAUGC UAAUGUGUUACAUGGGAAAUACC UAAUGCACUGU  
.((((((((.....&.....)))))))). -16.99  
mir-152 ENSRNOG00000000583 4096 nt UTR 2 hits 1148 3250

-----1-----  
-----1-----

>ENSRNOG00000000583 hs-mir-152 1148 1155  
UCAGUGCAUGACAGAACUUGG&UACUGAGACUUAACGCUGUCAAGAACC UUUUUUAUUGCACUGAA  
((((((((.....&.....)))))))). -23.03

>ENSRNOG00000000583 hs-mir-152 3250 3257  
UCAGUGCAUGACAGAACUUGG&UACUGAGACUUAACGCUGUCAAGAACC UUUUUUAUUGCACUGAA  
((((((((.....&.....)))))))). -23.03

miRNA: mir-152

Human predicted target: ENSG00000162374  
Mouse predicted target: ENSMUSG00000028546  
Rat predicted target: ENSRNOG00000008076  
Rat predicted target: ENSRNOG00000008089  
Hs Gene description: ELAV-LIKE PROTEIN 4 (PARANEOPLASTIC ENCEPHALOMYELITIS ANTIGEN HUD) (HU-ANTIGEN D). [Source:SWISSPROT;Acc:P26378] NM\_021952  
mir-152 ENSG00000162374 2221 nt UTR 2 hits 840 1802

-----1-----1-----

>ENSG00000162374 hs-mir-152 840 847  
UCAGUGCAUGACAGAACUUGG&UUUAGGGGAAAUUGACAACUUGUCGCGUUCAUACUGCACUGGU  
((((((((.....&.....)))))))). -20.20

>ENSG00000162374 hs-mir-152 1802 1809  
UCAGUGCAUGACAGAACUUGG&ACAAAUGACUGAGGGAGCACUCUCCACGUCCAGUGCACUGAU  
((((((((.....&.....)))))))). -20.80  
mir-152 ENSMUSG00000028546 2000 nt UTR 2 hits 828 1792

-----1-----1-----

>ENSMUSG00000028546 hs-mir-152 828 835  
UCAGUGCAUGACAGAACUUGG&UUUAGGGGAAAUUGACAACUUGUCGCGUUCAUACUGCACUGGU

((((((((((((((((((.....&.....)))))))))).....)))))))). -20.20  
>ENSMUSG00000028546 hs-mir-152 1792 1799

UCAGUGCAUGACAGAACUUGG&ACAAAAGGACCGUGGGAGCAAACUCCACGUCCAGUGCACUGAU  
((((((((((((((((((.....&.....)))))))))).....)))))))). -20.80  
mir-152 ENSRNOG00000008076 2000 nt UTR 2 hits 826 1785

-----1-----1--  
-----

>ENSRNOG00000008076 hs-mir-152 826 833  
UCAGUGCAUGACAGAACUUGG&UUUAGGGGAAAUUGACAACUUUGUCGCGUUCAUACUGCACUGGU  
((((((((((((((((((.....&.....)))))))))).....)))))))). -20.20

>ENSRNOG00000008076 hs-mir-152 1785 1792  
UCAGUGCAUGACAGAACUUGG&ACAAAAGGACUGUGGGAGCAAACUCCACAUCAGUGCACUGAU  
((((((((((((((((((.....&.....)))))))))).....)))))))). -21.65  
mir-152 ENSRNOG00000008089 2000 nt UTR 2 hits 826 1785

-----1-----1--  
-----

>ENSRNOG00000008089 hs-mir-152 826 833  
UCAGUGCAUGACAGAACUUGG&UUUAGGGGAAAUUGACAACUUUGUCGCGUUCAUACUGCACUGGU  
((((((((((((((((((.....&.....)))))))))).....)))))))). -20.20

>ENSRNOG00000008089 hs-mir-152 1785 1792  
UCAGUGCAUGACAGAACUUGG&ACAAAAGGACUGUGGGAGCAAACUCCACAUCAGUGCACUGAU  
((((((((((((((((((.....&.....)))))))))).....)))))))). -21.65

miRNA: mir-152

Human predicted target: ENSG00000184602  
Mouse predicted target: ENSMUSG00000037972  
Rat predicted target: ENSRNOG00000002463  
Hs Gene description: STANNIN (AG8\_1). [Source:SWISSPROT;Acc:075324]  
NM\_003498

mir-152 ENSG00000184602 4833 nt UTR 2 hits 138 967  
-----1-----1-----

>ENSG00000184602 hs-mir-152 138 145  
UCAGUGCAUGACAGAACUUGG&UUGCUGGCAUGGCCUCUGCGGGCUUCGUCAUCGCAUGCACUGAU  
((((((((((((((((((.....&.....)))))))))).....)))))))). -24.60

>ENSG00000184602 hs-mir-152 967 974  
UCAGUGCAUGACAGAACUUGG&AGGUUGUAUGUUUUGUGUUGGUGUUUCCUAUUUUCUGCACUGGA  
((((((((((((((((((.....&.....)))))))))).....)))))))). -18.76  
mir-152 ENSMUSG00000037972 4388 nt UTR 4 hits 136 492 905 3222

-----1-----1-----1-----

>ENSMUSG00000037972 hs-mir-152 136 143  
UCAGUGCAUGACAGAACUUGG&UUGCUGGCAUGGUCUCCUCGGGCUUUGUCAUCGCAUGCACUGGC  
((((((((((((((((((.....&.....)))))))))).....)))))))). -24.40

>ENSMUSG00000037972 hs-mir-152 492 499

UCAGUGCAUGACAGAACUUGG&UUGGACUGGUCAGGCCCCAGUUGCCCUCGGCAGGGUGCACUGAG  
((((((((((..(((((((&.....)))))).)))).)))). -20.30  
>ENSMUSG00000037972 hs-mir-152 905 912  
UCAGUGCAUGACAGAACUUGG&GAAGACAAGGUUUUGUUUUUGUAUUUAAUAUUUUCUGCACUGGA  
((((((((((..(((((((&.....)))))).)))).)))). -22.71  
>ENSMUSG00000037972 hs-mir-152 3222 3229  
UCAGUGCAUGACAGAACUUGG&GUGGUUCUUUGUAGAGUUGAGGAGCCCAACAGACUUGCACUGC  
..((((((((((..(((((((&.....)))))).)))).)))). -16.81  
mir-152 ENSRNOG00000002463 4485 nt UTR 5 hits 133 483 882 2129 3328  
-----1-----1-----1-----1-----  
-----1-----1-----1-----1-----  
-----  
>ENSRNOG00000002463 hs-mir-152 133 140  
UCAGUGCAUGACAGAACUUGG&UUGCUGGCAUGGUCUCCUUGGGCUUUGACAUCGCAUGCACUGAC  
((((((((((..(((((((&.....)))))).)))).)))). -23.50  
>ENSRNOG00000002463 hs-mir-152 483 490  
UCAGUGCAUGACAGAACUUGG&UUCGACUGGUCAGGCCCCAGGUGCCCUUGGCAGGGUGCACUGAG  
((((((((((..(((((((&.....)))))).)))).)))). -24.50  
>ENSRNOG00000002463 hs-mir-152 882 889  
UCAGUGCAUGACAGAACUUGG&GAAGGCAAGGUUUGGUUUUGUAUUUAAUAUUUUCUGCACUGGA  
((((((((((..(((((((&.....)))))).)))).)))). -19.90  
>ENSRNOG00000002463 hs-mir-152 2129 2136  
UCAGUGCAUGACAGAACUUGG&CUGCCCUUGGUUAUCACUAGCUACCUUUUCAAGUGUGCACUGGA  
((((((((((..(((((((&.....)))))).)))).)))). -20.10  
>ENSRNOG00000002463 hs-mir-152 3328 3335  
UCAGUGCAUGACAGAACUUGG&GUGGUUCUUUGUGGAGUUGAGGAGCCCCACAGACUUGCACUGC  
..((((((((((..(((((((&.....)))))).)))).)))). -16.59

miRNA: mir-153

Human predicted target: ENSG00000164164

Mouse predicted target: ENSMUSG00000036990

Rat predicted target: ENSRNOG00000018477

Hs Gene description: NM\_014928

mir-153 ENSG00000164164 2000 nt UTR 2 hits 801 1367

-----1-----1-----1-----1-----

>ENSG00000164164 hs-mir-153 801 808  
UUGCAUAGUCACAAAAGUGA&AAUAUCAUGGUGCCUACUCGAAAGAAUGUAGAUGCUAUGCAU  
..((((((((((..(((((((&.....)))))).)))).)))). -16.84  
>ENSG00000164164 hs-mir-153 1367 1374

UUGCAUAGUCACAAAAGUGA&UGUUGAGAUUAUCUUCUGAUCAGGAAGUUUGAGUGCUAUGCAA  
((((((((((..(((((((&.....)))))).)))).)))). -17.30  
mir-153 ENSMUSG00000036990 2271 nt UTR 2 hits 798 1345

-----1-----1-----1-----1-----

>ENSMUSG00000036990 hs-mir-153 798 805  
UUGCAUAGUCACAAAAGUGA&AAUAUCAUGGUGCCUACUGGAAGGAAUGUAGAUGCUAUGCAU

.((((((((((((.....(((&.....)))))).....)))))))). -16.84  
>ENSMUSG00000036990 hs-mir-153 1345 1352  
UUGCAUAGUCACAAAAGUGA&UGUUGCAAUUACCUUGUGAUCAGGCAGCUUGAGUGCUAUGCAA  
((((((((((.....(((&.....)))))).....)))))))). -20.20  
mir-153 ENSRNOG00000018477 2000 nt UTR 2 hits 810 1342

-----1-----1-----  
-----

>ENSRNOG00000018477 hs-mir-153 810 817  
UUGCAUAGUCACAAAAGUGA&AAUAUCAUGGUGCCUACUCGAAGGGAAUGUAGAUGCUAUGCAU  
.((((((((((((.....(((&.....)))))).....)))))))). -16.84  
>ENSRNOG00000018477 hs-mir-153 1342 1349  
UUGCAUAGUCACAAAAGUGA&UUUUAUGUCGAAUUGUGAUCAGGCAGCUCGAGUGCUAUGCAA  
((((((((((.....(((&.....)))))).....)))))))). -21.19

miRNA: mir-155

Human predicted target: ENSG00000136535  
Mouse predicted target: ENSMUSG00000035033  
Rat predicted target: ENSRNOG00000005049  
Hs Gene description: T-BRAIN-1 PROTEIN (T-BOX BRAIN PROTEIN 1) (TBR-1)  
(TES-56). [Source:SWISSPROT;Acc:Q16650] NM\_006593  
mir-155 ENSG00000136535 2835 nt UTR 2 hits 1248 1303

-----1--1-----  
-----

>ENSG00000136535 hs-mir-155 1248 1255  
UUAAUGC UAAUUGUGAUAGGGG&AAACAGCUGAAAUUUGACUUCUUGGGAGAACACUAGCAUUAU  
((((((((((.....(((&.....)))))).....)))))))). -19.10  
>ENSG00000136535 hs-mir-155 1303 1310  
UUAAUGC UAAUUGUGAUAGGGG&UGAUUUUCCCCAAGUCUUGUUAUAUUUGAUUAGGAGCAUUAU  
((((((((((.....(((&.....)))))).....)))))))). -22.23  
mir-155 ENSMUSG00000035033 3673 nt UTR 2 hits 1280 1334

-----1-1-----  
-----

>ENSMUSG00000035033 hs-mir-155 1280 1287  
UUAAUGC UAAUUGUGAUAGGGG&AGACAGCUGAAAUUUGACUUCUUGGGAAAACACUAGCAUUAU  
.((((((((((((.....(((&.....)))))).....)))))))). -15.60  
>ENSMUSG00000035033 hs-mir-155 1334 1341  
UUAAUGC UAAUUGUGAUAGGGG&CUGAUUCCCCCAAGUCUUGUUAUAUUUGAUUAGGAGCAUUAU  
((((((((((.....(((&.....)))))).....)))))))). -19.90  
mir-155 ENSRNOG00000005049 3624 nt UTR 2 hits 1232 1286

-----1-1-----  
-----

>ENSRNOG00000005049 hs-mir-155 1232 1239  
UUAAUGC UAAUUGUGAUAGGGG&GACAGCUGAAAUUUGACUUCUUGGGAAAACACUAGCAUUAU  
.((((((((((((.....(((&.....)))))).....)))))))). -18.50  
>ENSRNOG00000005049 hs-mir-155 1286 1293  
UUAAUGC UAAUUGUGAUAGGGG&CUGAUUCCCCCAAGUCUUGUUAUAUUUGAUUAGGAGCAUUAU  
((((((((((.....(((&.....)))))).....)))))))). -19.90

miRNA: mir-155

Human predicted target: ENSG00000156925

Mouse predicted target: ENSMUSG00000005314

Rat predicted target: ENSRNOG0000000861

Hs Gene description: ZINC FINGER PROTEIN ZIC3 (ZINC FINGER PROTEIN OF THE CEREBELLUM 3). [Source:SWISSPROT;Acc:O60481] NM\_003413

mir-155 ENSG00000156925 4032 nt UTR 2 hits 458 729

-----1-----1-----  
-----  
-----

>ENSG00000156925 hs-mir-155 458 465  
UUA AUGCUAAUUGUGAUAGGGG&GCCAAAGUCCUGUUAUGUCUUGAACUUUCCUCAAGCAUUAC  
.((((((((...(((((((((.&.....)))))))))).....)))))))). -17.30

>ENSG00000156925 hs-mir-155 729 736  
UUA AUGCUAAUUGUGAUAGGGG&ACAAAUUCUGUACAGCUUUUGAUUAUAAACUGCUUUAGCAUUA  
((((((((((((((((((((&.....))))))))).)))))).....)))))))). -17.40

mir-155 ENSMUSG00000005314 3354 nt UTR 2 hits 421 697

-----1-----1-----  
-----  
-----

>ENSMUSG00000005314 hs-mir-155 421 428  
UUA AUGCUAAUUGUGAUAGGGG&GCCAAAGUCCUGUUAUGUCUUGAACUUUUCUCAAAGCAUUAC  
.((((((((...(((((((((.&.....)))))))))).....)))))))). -17.30

>ENSMUSG00000005314 hs-mir-155 697 704  
UUA AUGCUAAUUGUGAUAGGGG&CAAUUCUGUACAGCUUUUGAUUAUAAACUGCUUUUAGCAUUA  
((((((((((((((((((((&.....))))))))).)))))).....)))))))). -17.00

mir-155 ENSRNOG0000000861 3340 nt UTR 4 hits 425 700 1400 1675

-----1-----1-----1-----1-----  
-----  
-----

>ENSRNOG0000000861 hs-mir-155 425 432  
UUA AUGCUAAUUGUGAUAGGGG&GCCAAAGUCCUGUUAUGUCUUGAACUUUUCUCAAAGCAUUAC  
.((((((((...(((((((((.&.....)))))))))).....)))))))). -17.30

>ENSRNOG0000000861 hs-mir-155 700 707  
UUA AUGCUAAUUGUGAUAGGGG&ACAAUUCUGUACAGCUUUUGAUUAUAAACUACUUUAGCAUUA  
((((((((((((((((((((&.....))))))))).)))))).....)))))))). -17.40

>ENSRNOG0000000861 hs-mir-155 1400 1407  
UUA AUGCUAAUUGUGAUAGGGG&GCCAAAGUCCUGUUAUGUCUUGAACUUUUCUCAAAGCAUUAC  
.((((((((...(((((((((.&.....)))))))))).....)))))))). -17.30

>ENSRNOG0000000861 hs-mir-155 1675 1682  
UUA AUGCUAAUUGUGAUAGGGG&ACAAUUCUGUACAGCUUUUGAUUAUAAACUACUUUAGCAUUA  
((((((((((((((((((((&.....))))))))).)))))).....)))))))). -17.40

miRNA: mir-181a

Human predicted target: ENSG00000005073

Mouse predicted target: ENSMUSG00000038210

Rat predicted target: ENSRNOG00000007627

Hs Gene description: HOMEBOX PROTEIN HOX-A11 (HOX-1I).

[Source:SWISSPROT;Acc:P31270] NM\_005523

mir-181a ENSG00000005073 3286 nt UTR 2 hits 1219 2413

-----1-----  
-----1-----

>ENSG00000005073 hs-mir-181a 1219 1226  
AACAUUCAACGCUGUCGGUGAGU&UCCGUGGUUAAACUCGCUCACUGCUAAGAAUAAUUGAAUGUA  
.((((((((((..((..(((((((&.....)))))))).)))).)))). -23.70

>ENSG00000005073 hs-mir-181a 2413 2420  
AACAUUCAACGCUGUCGGUGAGU&AUCGAGCUGAAAGGGUAGUGGGACAGAUCUAGAGAUGAAUGUC  
.((((((((((..((..(((((((&..)))).)))).)))).)))). -17.50

mir-181a ENSMUSG00000038210 3254 nt UTR 2 hits 1193 2351

-----1-----  
-----1-----

>ENSMUSG00000038210 hs-mir-181a 1193 1200  
AACAUUCAACGCUGUCGGUGAGU&GUUCCAAGGUUAAACUCGCUCACUGCUAAAAUAAUUGAAUGUA  
.((((((((((..((..(((((((&.....)))))))).)))).)))). -22.10

>ENSMUSG00000038210 hs-mir-181a 2351 2358  
AACAUUCAACGCUGUCGGUGAGU&GCUUUCUGAAAGGGGAGAGGGACAGACCCUCUAGAUGAAUGUC  
.((((((((((..((..(((((((&)))))).)))).)))).)))). -17.05

mir-181a ENSRNOG00000007627 3239 nt UTR 3 hits 1177 1739 2904

-----1-----1-----  
-----1-----

>ENSRNOG00000007627 hs-mir-181a 1177 1184  
AACAUUCAACGCUGUCGGUGAGU&UCCAAGGUUAAACUCGCUCACUGCUAAAAUAAUUGAAUGUA  
.((((((((((..((..(((((((&.....)))))))).)))).)))). -22.10

>ENSRNOG00000007627 hs-mir-181a 1739 1746  
AACAUUCAACGCUGUCGGUGAGU&UCCAAGGUUAAACUCGCUCACUGCUAAAAUAAUUGAAUGUA  
.((((((((((..((..(((((((&.....)))))))).)))).)))). -22.10

>ENSRNOG00000007627 hs-mir-181a 2904 2911  
AACAUUCAACGCUGUCGGUGAGU&GAGAGCUGAAAGGGGAGACGGACAGACCCUCUAGAUGAAUGUC  
.((((((((((..((..(((((((&.....)))))))).)))).)))). -19.40

miRNA: mir-181a

Human predicted target: ENSG00000081842

Mouse predicted target: ENSMUSG00000007440

Rat predicted target: ENSRNOG00000020119

Hs Gene description: PROTOCADHERIN ALPHA 13 PRECURSOR (PCDH-ALPHA13).

[Source:SWISSPROT;Acc:Q9Y5I0] NM\_018900

mir-181a ENSG00000081842 4866 nt UTR 2 hits 1934 1982

-----1-1-----  
-----1-1-----

>ENSG00000081842 hs-mir-181a 1934 1941  
AACAUUCAACGCUGUCGGUGAGU&ACUCCUGAAUAAUACUACUCUGUGCUUGUGUAUGUGAAUGUUA  
((((((((((((((..((..(((((((&.....)))))))).)))).)))). -  
21.00

>ENSG00000081842 hs-mir-181a 1982 1989  
AACAUUCAACGCUGUCGGUGAGU&AACUAUUACCUAGAGUGAACUUUAAGCUUUAUUGUUGAAUGUA  
.((((((((((((((..(((..&.....)))))).)).).....)))))))). -19.62  
mir-181a ENSMUSG00000007440 4401 nt UTR 2 hits 1465 1513

-----1-1-----  
-----

>ENSMUSG00000007440 hs-mir-181a 1465 1472  
AACAUUCAACGCUGUCGGUGAGU&ACUCCUGAGAUUACUACUCUGUGCUUGUGUAUGUGAAUGUUA  
((((((((((((((..(((..&.....)))))).)).).....)))))))). -  
21.00

>ENSMUSG00000007440 hs-mir-181a 1513 1520  
AACAUUCAACGCUGUCGGUGAGU&AACUAUUACCUAGAGUGAACUUUAAGCUUUAUUGUUGAAUGUA  
.((((((((((((((..(((..&.....)))))).)).).....)))))))). -19.62  
mir-181a ENSRNOG00000020119 4387 nt UTR 2 hits 1507 4303

-----1-----  
-----

>ENSRNOG00000020119 hs-mir-181a 1507 1514  
AACAUUCAACGCUGUCGGUGAGU&AACUAUUACCUAGAGUGAACUUUAAGCUUUAUUGUUGAAUGUA  
.((((((((((((((..(((..&.....)))))).)).).....)))))))). -19.62

>ENSRNOG00000020119 hs-mir-181a 4303 4310  
AACAUUCAACGCUGUCGGUGAGU&AACUAUUACCUAGAGUGAACUUUAAGCUUUAUUGUUGAAUGUA  
.((((((((((((((..(((..&.....)))))).)).).....)))))))). -19.62

miRNA: mir-181a

Human predicted target: ENSG00000128000

Mouse predicted target: ENSMUSG00000037640

Rat predicted target: ENSRNOG00000018885

Rat predicted target: ENSRNOG00000018896

Rat predicted target: ENSRNOG00000018936

Hs Gene description: NM\_032689

mir-181a ENSG00000128000 2000 nt UTR 5 hits 92 259 425 509 593

---1-----1-----1---1--1-----  
-----

>ENSG00000128000 hs-mir-181a 92 99  
AACAUUCAACGCUGUCGGUGAGU&GGACAUAUAGAUUUAUUCGUGAGAACCCUUAUGAAUGUC  
.((((((((.....((..(((..&.....)))))).)).).....)))))))). -13.12

>ENSG00000128000 hs-mir-181a 259 266  
AACAUUCAACGCUGUCGGUGAGU&AAACAUGUUAUUAUUAUACUGAUGAGAAACCCUUAUGAAUGUA  
.((((((((.....((..(((..&.....)))))).)).).....)))))))). -16.30

>ENSG00000128000 hs-mir-181a 425 432  
AACAUUCAACGCUGUCGGUGAGU&UGCACAUCAAGAAUUAUACUGGUAUGAACCGUAUGAAUGUA  
.((((((((((((((..(((..&.....)))))).)).).....)))))))). -17.10

>ENSG00000128000 hs-mir-181a 509 516  
AACAUUCAACGCUGUCGGUGAGU&CAACAUGUUAUUAUUAUACUGGUGAGCAACCCUGUGAAUGUA  
.((((((((((((((..(((..&.....)))))).)).).....)))))))). -17.30

>ENSG00000128000 hs-mir-181a 593 600  
AACAUUCAACGCUGUCGGUGAGU&GCACAUCACAGAAUUCAUACUGGCAUGAAACCCUAUGAAUGUA  
.(((((((...(((((((((((&.....))))))..))))))..)).....)))))))). -17.60  
mir-181a ENSMUSG00000037640 2000 nt UTR 7 hits 78 171 468 477 561  
1562 1730  
---1--1-----11--1-----1-----1-----1-----  
-----  
>ENSMUSG00000037640 hs-mir-181a 78 85  
AACAUUCAACGCUGUCGGUGAGU&CAGCAUCAAGUAUUCAUACUGGAGAGAAGCCCUAUGAAUGUG  
.(((((((...(((((((((((&.....))))))..))))))..)).....)))))))). -17.90  
>ENSMUSG00000037640 hs-mir-181a 171 178  
AACAUUCAACGCUGUCGGUGAGU&AAGUUUCACAGUGGUGAGAAACCUUUCGAGUGUAAUGAAUGUG  
.(((((((...(((((((((((&.....))))))..))))))..)).....)))))))). -18.40  
>ENSMUSG00000037640 hs-mir-181a 468 475  
AACAUUCAACGCUGUCGGUGAGU&AGGCACCAGAACAUCACACUGGAGAGAAGUCAUUUGAAUGUC  
.(((((((...(((((((((((&.....))))))..))))))..)).....)))))))). -19.80  
>ENSMUSG00000037640 hs-mir-181a 477 484  
AACAUUCAACGCUGUCGGUGAGU&AACAUUCACACUGGAGAGAAGUCAUUUGAAUGUCAUGAAUGUG  
.(((((((...(((((((((((&.....))))))..))))))..)).....)))))))). -16.81  
>ENSMUSG00000037640 hs-mir-181a 561 568  
AACAUUCAACGCUGUCGGUGAGU&AAGUCUCACAGUGGUGAGAAACCUUUCAAAUGUAAUGAAUGUG  
.(((((((...(((((((((((&.....))))))..))))))..)).....)))))))). -18.45  
>ENSMUSG00000037640 hs-mir-181a 1562 1569  
AACAUUCAACGCUGUCGGUGAGU&CAACAUAUGGCCAUUCAUUCUGGUGUGAAAUCAUAUGAAUGUA  
.(((((((...(((((((((((&.....))))))..))))))..)).....)))))))). -18.20  
>ENSMUSG00000037640 hs-mir-181a 1730 1737  
AACAUUCAACGCUGUCGGUGAGU&CGGCACCAGAGCAUCCACACUGGAGAGAAAUCAUUUGAAUGUC  
.(((((((...(((((((((((&.....))))))..))))))..)).....)))))))). -17.60  
mir-181a ENSRNOG00000018885 2000 nt UTR 1 hits 851  
-----1-----  
-----  
>ENSRNOG00000018885 hs-mir-181a 851 858  
AACAUUCAACGCUGUCGGUGAGU&CCGUUGUUCAUAGAAGAUACUGUUGAGAAUGUCUUUGAAUGUC  
.(((((((...(((((((((((&.....))))))..))))))..)).....)))))))). -15.50  
mir-181a ENSRNOG00000018896 2672 nt UTR 8 hits 78 591 750 918 1002  
1254 1338 2328  
---1-----1-----1-----1-----1-----1-----1-----  
-----1-----  
>ENSRNOG00000018896 hs-mir-181a 78 85  
AACAUUCAACGCUGUCGGUGAGU&CAGCAUCAGACUAUUCAUACUGGAGAGAAACCCUAUGAAUGUA  
.(((((((...(((((((((((&.....))))))..))))))..)).....)))))))). -16.20  
>ENSRNOG00000018896 hs-mir-181a 591 598  
AACAUUCAACGCUGUCGGUGAGU&AAGUUUCACAGUGGUGACAAACCUUUCAAAUGUAAUGAAUGUG  
.(((((((...(((((((((((&.....))))))..))))))..)).....)))))))). -16.60  
>ENSRNOG00000018896 hs-mir-181a 750 757  
AACAUUCAACGCUGUCGGUGAGU&CAACAUAAGGCUUAUUCAUGCUGAUGUGAAACCAUUUGAAUGUA  
.(((((((...(((((((((((&.....))))))..))))))..)).....)))))))). -19.21  
>ENSRNOG00000018896 hs-mir-181a 918 925



AACAUUCAACGCUGUCGGUGAGU&AGGCACCAGAGGAUUCAUACUGGAGAGAAGCCAUUUGAAUGUA  
.(((((((((((((.....)))))))).))))). -19.30  
>ENSRNOG00000018896 hs-mir-181a 1002 1009  
AACAUUCAACGCUGUCGGUGAGU&CAGCACCAGCGAGUUCACACUGGUGAGAAACCCUUUGAAUGUA  
.(((((((((((((.....)))))))).))))). -19.60  
>ENSRNOG00000018896 hs-mir-181a 1254 1261  
AACAUUCAACGCUGUCGGUGAGU&CAGCACCAGACCAUUCAUACUGGAGAGAAGUCAUUUGAAUGUA  
.(((((((((((((.....)))))))).))))). -18.82  
>ENSRNOG00000018896 hs-mir-181a 1338 1345  
AACAUUCAACGCUGUCGGUGAGU&CAACACCAGCAUUUUCACACUGGUGAGAAACCCUUUGAAUGUA  
.(((((((((((((.....)))))))).))))). -18.30  
>ENSRNOG00000018896 hs-mir-181a 2328 2335  
AACAUUCAACGCUGUCGGUGAGU&CAACAUUGGCUAUUCAUGCUGGUGUGAUUCAUAUGAAUGUA  
.(((((((((((((.....)))))))).))))). -17.60  
mir-181a ENSRNOG00000018936 5085 nt UTR 11 hits 78 171 330 498 507  
591 918 1422 1927 2361 3473  
---1--1-----1-----11--1-----1-----1-----1-----  
---1-----1-----1-----1-----1-----1-----  
-----  
>ENSRNOG00000018936 hs-mir-181a 78 85  
AACAUUCAACGCUGUCGGUGAGU&CAGCAUCAGACUAUUCAUACUGGAGAGAAACCCUAUGAAUGUA  
.(((((((((((((.....)))))))).))))). -16.20  
>ENSRNOG00000018936 hs-mir-181a 171 178  
AACAUUCAACGCUGUCGGUGAGU&AAGUUUCACAGUGGUGAGAAACCCUUUCAAGUGCAAUGAAUGUG  
.(((((((((((((.....)))))))).))))). -17.00  
>ENSRNOG00000018936 hs-mir-181a 330 337  
AACAUUCAACGCUGUCGGUGAGU&GCACAUAGGAUUAUUCAUGCUGAUGUGAAACCAUAUGAAUGUA  
.(((((((((((((.....)))))))).))))). -17.30  
>ENSRNOG00000018936 hs-mir-181a 498 505  
AACAUUCAACGCUGUCGGUGAGU&AGGCACCAGAACAUUCACACUGGAGAGAAAUUGUUUGAAUGUC  
.(((((((((((((.....)))))))).))))). -18.50  
>ENSRNOG00000018936 hs-mir-181a 507 514  
AACAUUCAACGCUGUCGGUGAGU&AACAUUCACACUGGAGAGAAAUUGUUUGAAUGUCAUGAAUGUG  
.(((((((((((((.....)))))))).))))). -16.70  
>ENSRNOG00000018936 hs-mir-181a 591 598  
AACAUUCAACGCUGUCGGUGAGU&AAGUCUCACAGUGGUGAGAAACCCUUUCAAGUGCAAUGAAUGUG  
.(((((((((((((.....)))))))).))))). -18.50  
>ENSRNOG00000018936 hs-mir-181a 918 925  
AACAUUCAACGCUGUCGGUGAGU&AGGCACCAAACUAUUCAUACUGGAGAGAAGUCAUUUGAAUGUA  
.(((((((((((((.....)))))))).))))). -17.50  
>ENSRNOG00000018936 hs-mir-181a 1422 1429  
AACAUUCAACGCUGUCGGUGAGU&AACCAUCAAAUUGUUCAUCAAGUAAGAGACCCUUUGAAUGUA  
.(((((((((((((.....)))))))).))))). -16.20  
>ENSRNOG00000018936 hs-mir-181a 1927 1934  
AACAUUCAACGCUGUCGGUGAGU&GGACAUUUUAGAAUUCAUAUUGACAAGAAUCCUUAUGAAUGUA  
.(((((((((((((.....)))))))).))))). -17.00  
>ENSRNOG00000018936 hs-mir-181a 2361 2368  
AACAUUCAACGCUGUCGGUGAGU&GCUCAUCAGAGAGUCCAUAUAGGUCUGAAACUCUGUGAAUGUG



miRNA: mir-181a

Human predicted target: ENSG00000161940

Mouse predicted target: ENSMUSG00000000317

Rat predicted target: ENSRNOG00000018811

Hs Gene description: BAZF. [Source:SPTREMBL;Acc:Q8N143]

mir-181a ENSG00000161940 2438 nt UTR 2 hits 1113 1209

-----1-----1-----

>ENSG00000161940 hs-mir-181a 1113 1120  
AACAUUCAACGCUGUCGGUGAGU&AUGAUGUGACCUUUUCUGACUCUGCCCAGUCUCUAUGAAUGUUA  
((((((((((..((((((((((&.....)))))))).)))))).....)))))) -  
20.70

>ENSG00000161940 hs-mir-181a 1209 1216  
AACAUUCAACGCUGUCGGUGAGU&GUUAACCAUCCUUUACUACAGAGGCAUAUGGGUUUGAAUGUUA  
((((((((((..((((((((((&.....)))))))).)))))).....)))))) -  
19.70

mir-181a ENSMUSG00000000317 3899 nt UTR 3 hits 1093 1118 1284

-----11-----1-----

>ENSMUSG00000000317 hs-mir-181a 1093 1100  
AACAUUCAACGCUGUCGGUGAGU&GAGUCUGAGUCCUUUACUGCAUGAACAGCUGGGUUUGAAUGUC  
((((((((((..((((((((((&.....)))))))).)))))).....)))))) -21.10

>ENSMUSG00000000317 hs-mir-181a 1118 1125  
AACAUUCAACGCUGUCGGUGAGU&CAGCUGGGUUUGAAUGUCCCUUGGCCCUCCUUCUUUGAAUGUG  
((((((((((..((((((((((&.....)))))))).)))))).....)))))) -15.90

>ENSMUSG00000000317 hs-mir-181a 1284 1291  
AACAUUCAACGCUGUCGGUGAGU&AGACUACCAACAUAUCCUUGUCUGGGACCAGUGAAUGUA  
((((((((((..((((((((((&.....)))))))).)))))).....)))))) -16.90

mir-181a ENSRNOG00000018811 2000 nt UTR 3 hits 662 1034 1183

-----1-----1-----1-----

>ENSRNOG00000018811 hs-mir-181a 662 669  
AACAUUCAACGCUGUCGGUGAGU&UUUGAGGACGACGGGAACCUUGUUUUGAUGAACUCUGAAUGUA  
((((((((((..((((((.....&.....)))))))).)))))).....)))))) -16.45

>ENSRNOG00000018811 hs-mir-181a 1034 1041  
AACAUUCAACGCUGUCGGUGAGU&UUAUGUCCCUUGGACUCAUAUGCCCUUCUUCUUUGAAUGUUU  
((((((((((..((((((((((&.....)))))))).)))))).....)))))) -  
17.50

>ENSRNOG00000018811 hs-mir-181a 1183 1190  
AACAUUCAACGCUGUCGGUGAGU&AGACUGCCCAUCAUAUCCUUGUCUGGGACCGGUGAAUGUA  
((((((((((..((((((((((&.....)))))))).)))))).....)))))) -18.50

miRNA: mir-181a

Human predicted target: ENSG00000164283

Mouse predicted target: ENSMUSG00000042379  
Rat predicted target: ENSRNOG00000010797  
Hs Gene description: ENDOTHELIAL CELL-SPECIFIC MOLECULE 1 PRECURSOR (ESM-1 SECRETORY PROTEIN) (ESM-1). [Source:SWISSPROT;Acc:Q9NQ30] NM\_007036  
mir-181a ENSG00000164283 3387 nt UTR 5 hits 1285 1307 1797 1819 2795

```
-----11-----11-  
-----1-----  
>ENSG00000164283 hs-mir-181a 1285 1292  
AACAUUCAACGCUGUCGGUGAGU&CUGUAUUUUUAUUCUUGAAGUUGGCCAACAGAGUUGUGAAUGUG  
.((((((((((.((((.((((.(.(&.....))))).)))..)))))). -22.20  
>ENSG00000164283 hs-mir-181a 1307 1314  
AACAUUCAACGCUGUCGGUGAGU&GCCAACAGAGUUGUGAAUGUGUGUGGGGAAGGCCUUUGAAUGUA  
.((((((((((.((((.((((.....&))))).)))..)))))). -17.29  
>ENSG00000164283 hs-mir-181a 1797 1804  
AACAUUCAACGCUGUCGGUGAGU&CUGUAUUUUUAUUCUUGAAGUUGGCCAACAGAGUUGUGAAUGUG  
.((((((((((.((((.((((.(.(&.....))))).)))..)))))). -22.20  
>ENSG00000164283 hs-mir-181a 1819 1826  
AACAUUCAACGCUGUCGGUGAGU&GCCAACAGAGUUGUGAAUGUGUGUGGGGAAGGCCUUUGAAUGUA  
.((((((((((.((((.((((.....&))))).)))..)))))). -17.29  
>ENSG00000164283 hs-mir-181a 2795 2802  
AACAUUCAACGCUGUCGGUGAGU&AUAGAAAUUGGGUGUGAAUGAGAUACAAAGUUACAUGAAUGUC  
.((((((((((.((((.((((.....&.....))))).)))..)))))). -13.20  
mir-181a ENSMUSG00000042379 3359 nt UTR 2 hits 1254 1278
```

```
-----11-----  
-----  
>ENSMUSG00000042379 hs-mir-181a 1254 1261  
AACAUUCAACGCUGUCGGUGAGU&UUAUAUUUUUAUUCUCAACCUUGCCAACAGAGUUGUGAAUGUA  
.((((((((((.((((.((((.(.(&.....))))).)))..)))))). -25.30  
>ENSMUSG00000042379 hs-mir-181a 1278 1285  
AACAUUCAACGCUGUCGGUGAGU&CAACAGAGUUGUGAAUGUACUCGUGGGGAAGAUCUGUGAAUGUA  
.((((((((((.((((.(((((&.....))))).)))..)))))). -19.00  
mir-181a ENSRNOG00000010797 2419 nt UTR 2 hits 1131 1155
```

```
-----11-----  
-----  
>ENSRNOG00000010797 hs-mir-181a 1131 1138  
AACAUUCAACGCUGUCGGUGAGU&UUAUAUUUUUAUUCUCAACCUUGCCAACAGAGUUGUGAAUGUA  
.((((((((((.((((.((((.(.(&.....))))).)))..)))))). -23.10  
>ENSRNOG00000010797 hs-mir-181a 1155 1162  
AACAUUCAACGCUGUCGGUGAGU&CAACAGAGUUGUGAAUGUACUUGUGGGGAAGAUCUUGAAUGUA  
.((((((((((.((((.(((((&.....))))).)))..)))))). -19.10
```

miRNA: mir-181a  
Human predicted target: ENSG00000164463  
Mouse predicted target: ENSMUSG00000048249  
Rat predicted target: ENSRNOG00000020769

Hs Gene description: ADULT RETINA PROTEIN. [Source:RefSeq;Acc:NM\_153607]  
NM\_153607

mir-181a ENSG00000164463 5222 nt UTR 3 hits 736 984 4518

-----1-----1-----  
-----1-----  
>ENSG00000164463 hs-mir-181a 736 743  
AACAUUCAACGCUGUCGGUGAGU&AAUGUUUUUUGUUCACUCUUUUUCAGAUUUUUUGAAUGUA  
.((((((((((..(((.....(((&.....))))).))))).))))). -18.50  
>ENSG00000164463 hs-mir-181a 984 991  
AACAUUCAACGCUGUCGGUGAGU&UAAGUAAAGUUUUGCACAGCUUACAUGAUACUGUAUGAAUGUA  
.(((((((((((.(((((((((((&.....))))).))))).))))). -23.70  
>ENSG00000164463 hs-mir-181a 4518 4525  
AACAUUCAACGCUGUCGGUGAGU&UUUUUUAAUACUCAAACACAUUGGGAUGUAACAAUGAAUGUC  
.(((((((((((.(((.....(((&.....))))).))))).))))). -15.80  
mir-181a ENSMUSG00000048249 2000 nt UTR 2 hits 766 1016

-----1-----1-----  
-----  
>ENSMUSG00000048249 hs-mir-181a 766 773  
AACAUUCAACGCUGUCGGUGAGU&AUGUCUUUUUGUUCACUCUUUUUCAGAUUUUUUGAAUGUA  
.(((((((((((.(((.....(((&.....))))).))))).))))). -17.90  
>ENSMUSG00000048249 hs-mir-181a 1016 1023  
AACAUUCAACGCUGUCGGUGAGU&UAAGUAAAGUUUUGCACAGCUUACAUGAUACUGUAUGAAUGUA  
.(((((((((((.(((((((((((&.....))))).))))).))))). -23.70  
mir-181a ENSRNOG00000020769 3521 nt UTR 4 hits 779 1024 2120 2365

-----1-----1-----  
-----1-----1-----  
>ENSRNOG00000020769 hs-mir-181a 779 786  
AACAUUCAACGCUGUCGGUGAGU&AAUGUCUUUUUGUUCACUCUUUUUCAGAUUUUUUGAAUGUA  
.(((((((((((.(((.....(((&.....))))).))))).))))). -18.50  
>ENSRNOG00000020769 hs-mir-181a 1024 1031  
AACAUUCAACGCUGUCGGUGAGU&UAAGUAAAGUUUUGCACAGCUUACAUGAUACUGUAUGAAUGUA  
.(((((((((((.(((((((((((&.....))))).))))).))))). -23.70  
>ENSRNOG00000020769 hs-mir-181a 2120 2127  
AACAUUCAACGCUGUCGGUGAGU&AAUGUCUUUUUGUUCACUCUUUUUCAGAUUUUUUGAAUGUA  
.(((((((((((.(((.....(((&.....))))).))))).))))). -18.50  
>ENSRNOG00000020769 hs-mir-181a 2365 2372  
AACAUUCAACGCUGUCGGUGAGU&UAAGUAAAGUUUUGCACAGCUUACAUGAUACUGUAUGAAUGUA  
.(((((((((((.(((((((((((&.....))))).))))).))))). -23.70

miRNA: mir-181a

Human predicted target: ENSG00000183756

Mouse predicted target: ENSMUSG00000030393

Rat predicted target: ENSRNOG00000011223

Hs Gene description: SIMILAR TO UBIQUITIN UBF-FL.

[Source:SPTREMBL;Acc:Q8IVY6]

mir-181a ENSG00000183756 2000 nt UTR 2 hits 519 1107

-----1-----1-----  
-----

>ENSG00000183756 hs-mir-181a 519 526  
AACAUUCAACGCUGUCGGUGAGU&GACCAUCAGCGAGUUCACACUGGAGAAAGACCUUAUGAAUGUG  
.(((((((.((((.(....&..)))))).....))))). -20.21  
>ENSG00000183756 hs-mir-181a 1107 1114  
AACAUUCAACGCUGUCGGUGAGU&AAACAUCAACGAGUUCACACGGGAGAAAGACAUCAUGAAUGUUG  
(((((((.((((.(....&..)))))).....))))). -  
20.02

mir-181a ENSMUSG00000030393 3407 nt UTR 2 hits 586 3104  
-----1-----1-----

>ENSMUSG00000030393 hs-mir-181a 586 593  
AACAUUCAACGCUGUCGGUGAGU&AAGUAGCUUUUAAUCUGUGUCACAUGACAGUUAGGUGAAUGUUU  
(((((((.((((.(....&..)))))).....))))). -  
26.20

>ENSMUSG00000030393 hs-mir-181a 3104 3111  
AACAUUCAACGCUGUCGGUGAGU&GAUUCUGAUUGCUUGCUUUUUUAAUCUAUCCUCUGAAUGUA  
.(((((((.((((.(....&..)))))).....))))). -17.55  
mir-181a ENSRNOG00000011223 2000 nt UTR 2 hits 587 1268

-----1-----1-----  
-----

>ENSRNOG00000011223 hs-mir-181a 587 594  
AACAUUCAACGCUGUCGGUGAGU&AAGUAGUUUUUAAUCAGUGUCAUGUGACAGGUAGGUGAAUGUUU  
(((((((.((((.(....&..)))))).....))))). -  
22.10

>ENSRNOG00000011223 hs-mir-181a 1268 1275  
AACAUUCAACGCUGUCGGUGAGU&UGUCUUUUGCUGUAUUCACAGGACUGAAAGAUCUGUGAAUGUA  
.(((((((.((((.(....&..)))))).....))))). -19.70

miRNA: mir-181b

Human predicted target: ENSG00000105132  
Mouse predicted target: ENSMUSG00000030386  
Rat predicted target: ENSRNOG00000011223  
Hs Gene description: NM\_153231

mir-181b ENSG00000105132 4466 nt UTR 2 hits 193 1996  
-----1-----1-----  
-----1-----1-----

>ENSG00000105132 hs-mir-181b 193 200  
AACAUUCAUUGCUGUCGGUGGGUU&AGCAGUCACUUUGGAGAGAAGCCUGUGAAUACAGUGAAUGUA  
.(((((((.((((.(....&..)))))).....))))). -  
25.60

>ENSG00000105132 hs-mir-181b 1996 2003  
AACAUUCAUUGCUGUCGGUGGGUU&AGCACCAGAAGUGAUUUGGAAGAGAAAUCCUAAAUGAAUGUG  
.(((((((.((((.(....&..)))))).....))))). -  
18.69

mir-181b ENSMUSG00000030386 2002 nt UTR 6 hits 444 528 621 705 789  
1032

-----1---1--1---1--1-----1-----  
-----

>ENSMUSG00000030386 hs-mir-181b 444 451  
AACAUUCAUUGCUGUCGGUGGGUU&CAGCAUAAGAAAACUCAUCCUGGAGAGAAACCCUAUGAAUGUG  
.((((((((((..(((((((((&.....)))))))).)))).)).....)))))))). -  
21.80

>ENSMUSG00000030386 hs-mir-181b 528 535  
AACAUUCAUUGCUGUCGGUGGGUU&AAGCAUGAACGGACACACACUGGAGUAAAACCCUAUGAAUGUA  
.(((((((((((..(((((((&.....)))))))).)))).)).....)))))))). -  
22.11

>ENSMUSG00000030386 hs-mir-181b 621 628  
AACAUUCAUUGCUGUCGGUGGGUU&AGAAUCCAUCAGGAGAAAACCCUUAUGUAUGUAAUGAAUGUG  
.(((((((((((..(((((((((&.....)))))))).)))).)).....)))))))). -  
23.40

>ENSMUSG00000030386 hs-mir-181b 705 712  
AACAUUCAUUGCUGUCGGUGGGUU&AGAACUCACACUGGAGAAAACCCUUUUGAGUGCACUGAAUGUG  
.(((((((((((..(((((((((&.....)))))))).)))).)).....)))))))). -  
24.50

>ENSMUSG00000030386 hs-mir-181b 789 796  
AACAUUCAUUGCUGUCGGUGGGUU&CGGAUGCAUACUGGAGAGAAACCCUUUAAAUGUGAUGAAUGUG  
.(((((((((((..(.....((((&.....)))))))).)).....)))))))). -  
24.34

>ENSMUSG00000030386 hs-mir-181b 1032 1039  
AACAUUCAUUGCUGUCGGUGGGUU&AAACAUGAAAUUAUCCAUCUGGAAUUAAGCCCUAUGAAUGUA  
.(((((((((((..((((((((((&.....)))))))).)))).)).....)))))))). -  
21.80

mir-181b ENSRNOG00000011223 2000 nt UTR 2 hits 587 1268  
-----1-----1-----

-----

>ENSRNOG00000011223 hs-mir-181b 587 594  
AACAUUCAUUGCUGUCGGUGGGUU&AAGUAGUUUUUAAUCAGUGUCAUGUGACAGGUAGGUGAAUGUUU  
(((((((((((..(((((((((&.....)))))))).)))).)).....)))))))). -  
23.30

>ENSRNOG00000011223 hs-mir-181b 1268 1275  
AACAUUCAUUGCUGUCGGUGGGUU&UGUCUUUUGCUGUAUUCACAGGACUGAAAGAUCUGUGAAUGUA  
.(((((((((((..((((((((((&.....)))))))).)))).)).....)))))))). -  
20.10

miRNA: mir-181b  
Human predicted target: ENSG00000120948  
Mouse predicted target: ENSMUSG00000041459  
Rat predicted target: ENSRNOG00000012455  
Hs Gene description: TAR DNA-BINDING PROTEIN-43 (TDP-43).  
[Source:SWISSPROT;Acc:Q13148] NM\_007375  
mir-181b ENSG00000120948 3391 nt UTR 2 hits 1047 3058

```

-----1-----
-----1-----
>ENSG00000120948 hs-mir-181b 1047 1054
AACAUUCAUUGCUGUCGGUGGGUU&AAGUGAGUUUUUGUUCUAGAUAAACCCACAUAUGAUGAAUGUG
.((((((((.....((((((&.....)))))).....)))))))). -
24.80
>ENSG00000120948 hs-mir-181b 3058 3065
AACAUUCAUUGCUGUCGGUGGGUU&CAUGGAAUGGUAACUUUAGUUAGACUGAAAAACUUGAAUGUUA
((((((((.....((((.....&.....)))))).....)))))))). -
18.30
mir-181b ENSMUSG00000041459 2924 nt UTR 2 hits 445 1428
-----1-----1-----
-----
>ENSMUSG00000041459 hs-mir-181b 445 452
AACAUUCAUUGCUGUCGGUGGGUU&ACUUUGAGUUUUUGUUCUAGGAAACCCACUUUAGUUGAAUGUG
.((((((((.....((((.....&.....)))))).....)))))))). -
25.80
>ENSMUSG00000041459 hs-mir-181b 1428 1435
AACAUUCAUUGCUGUCGGUGGGUU&GUGGCAGUCUUAAGUGAGGUAGGCUUUUGCCCUCUGAAUGUG
.((((((((.....((((.....&.....)))))).....)))))))). -
18.60
mir-181b ENSRNOG00000012455 4728 nt UTR 3 hits 1065 1953 3030
-----1-----1-----
-----1-----1-----
-----
>ENSRNOG00000012455 hs-mir-181b 1065 1072
AACAUUCAUUGCUGUCGGUGGGUU&ACUUUGAGUUUUUGUUCUAGGAAACCCACAGUAGCUGAAUGUG
.((((((((.....((((.....&.....)))))).....)))))))). -
26.60
>ENSRNOG00000012455 hs-mir-181b 1953 1960
AACAUUCAUUGCUGUCGGUGGGUU&GUGGCAGUCUUAAGUGAGGUAGGCUCCUACCCUCUGAAUGUG
.((((((((.....((((.....&.....)))))).....)))))))). -
19.30
>ENSRNOG00000012455 hs-mir-181b 3030 3037
AACAUUCAUUGCUGUCGGUGGGUU&GUGGCAGUCUUAAGUGAGGUAGGCUCCUACCCUCUGAAUGUG
.((((((((.....((((.....&.....)))))).....)))))))). -
19.30

```

miRNA: mir-181b

Human predicted target: ENSG00000128000

Mouse predicted target: ENSMUSG00000037640

Rat predicted target: ENSRNOG00000018885

Rat predicted target: ENSRNOG00000018896

Rat predicted target: ENSRNOG00000018936

Hs Gene description: NM\_032689

mir-181b ENSG00000128000 2000 nt UTR 5 hits 92 259 425 509 593





.((((((((((..((..(((..((((&.....))))).))..))..))..))..))..))..))..)).. -  
15.50  
>ENSMUSG00000037640 hs-mir-181b 1730 1737  
AACAUUCAUUGCUGUCGGUGGGUU&CGGCACCAGAGCAUCCACACUGGAGAGAAAUCAUUUGAAUGUC  
.((((((((((..((..(((..((((&.....))))).))..))..))..))..))..))..)).. -  
19.80  
mir-181b ENSRNOG00000018885 2000 nt UTR 1 hits 851  
-----1-----

-----  
>ENSRNOG00000018885 hs-mir-181b 851 858  
AACAUUCAUUGCUGUCGGUGGGUU&CCGUUGUUCAUAGAAGAUACUGUUGAGAAUGUCUUUGAAUGUC  
.((((((((((..((..(((..(((..((..&.....))..))..))..))..))..))..))..)).. -  
16.50  
mir-181b ENSRNOG00000018896 2672 nt UTR 8 hits 78 591 750 918 1002  
1254 1338 2328  
---1-----1-----1-----1---1-----1--1-----

-----1-----  
>ENSRNOG00000018896 hs-mir-181b 78 85  
AACAUUCAUUGCUGUCGGUGGGUU&CAGCAUCAGACUAUUCAUACUGGAGAGAAACCCUAUGAAUGUA  
.((((((((((..((..(((..(((..((((&.....))))).))..))..))..))..))..)).. -  
17.30  
>ENSRNOG00000018896 hs-mir-181b 591 598  
AACAUUCAUUGCUGUCGGUGGGUU&AAGUUUCACAGUGGUGACAAACCCUUCAAUGAAUGAAUGUG  
.((((((((((..((..(((..(((..((((&.....))))).))..))..))..))..))..)).. -  
23.30

>ENSRNOG00000018896 hs-mir-181b 750 757  
AACAUUCAUUGCUGUCGGUGGGUU&CAACAUAGGCUUAUUCAUGCUGAUGUGAAACCAUUUGAAUGUA  
.((((((((((..((..(((..(((..(((..((((&.....))))).))..))..))..))..)).. -  
17.01  
>ENSRNOG00000018896 hs-mir-181b 918 925  
AACAUUCAUUGCUGUCGGUGGGUU&AGGCACCAGAGGAUUCAUACUGGAGAGAAGCCAUUUGAAUGUA  
.((((((((((..((..(((..(((..(((..(((..((((&.....))))).))..))..))..)).. -  
19.10

>ENSRNOG00000018896 hs-mir-181b 1002 1009  
AACAUUCAUUGCUGUCGGUGGGUU&CAGCACCAGCGAGUUCACACUGGUGAGAAACCCUUUGAAUGUA  
.((((((((((..((..(((..(((..(((..(((..(((..((((&.....))))).))..))..)).. -  
19.10  
>ENSRNOG00000018896 hs-mir-181b 1254 1261  
AACAUUCAUUGCUGUCGGUGGGUU&CAGCACCAGACCAUUCAUACUGGAGAGAAGUCAUUUGAAUGUA  
.((((((((((..((..(((..(((..(((..(((..(((..(((..((((&.....))))).))..)).. -  
19.50

>ENSRNOG00000018896 hs-mir-181b 1338 1345  
AACAUUCAUUGCUGUCGGUGGGUU&CAACACCAGCAUUUUCACACUGGUGAGAAACCCUUUUGAAUGUA  
.((((((((((..((..(((..(((..(((..(((..(((..(((..(((..((((&.....))))).)).. -  
18.11  
>ENSRNOG00000018896 hs-mir-181b 2328 2335  
AACAUUCAUUGCUGUCGGUGGGUU&CAACAUUGGCUAUUCAUGCUGGUGUGAUUCAUAUGAAUGUA

.(((((((((((((.(((((((((((((((&.....)))))).....)))))).))))) -  
17.81  
mir-181b ENSRNOG00000018936 5085 nt UTR 11 hits 78 171 330 498 507  
591 918 1422 1927 2361 3473  
---1--1-----1-----11--1-----1-----1-----1-----  
---1-----1-----1-----1-----1-----1-----  
-----  
>ENSRNOG00000018936 hs-mir-181b 78 85  
AACAUUCAUUGCUGUCGGUGGGUU&CAGCAUCAGACUAUUCAUACUGGAGAGAAACCCUAUGAAUGUA  
.(((((((((((((.(((((((((((((((&.....)))))).....)))))).))))) -  
17.30  
>ENSRNOG00000018936 hs-mir-181b 171 178  
AACAUUCAUUGCUGUCGGUGGGUU&AAGUUUCACAGUGGUGAGAAACCUUUCAAGUGCAAUGAAUGUG  
.(((((((((((((.(((((((((((((((&.....)))))).....)))))).))))) -  
25.30  
>ENSRNOG00000018936 hs-mir-181b 330 337  
AACAUUCAUUGCUGUCGGUGGGUU&GCACAUAGGAUUUAUUCAUGCUGAUGUGAAACCAUAUGAAUGUA  
.(((((((((((((.(((((((((((((((&.....)))))).....)))))).))))) -  
16.70  
>ENSRNOG00000018936 hs-mir-181b 498 505  
AACAUUCAUUGCUGUCGGUGGGUU&AGGCACCAGAACAUUCACACUGGAGAGAAAUUGUUUGAAUGUC  
.(((((((((((((.(((((((((((((((&.....)))))).....)))))).))))) -  
17.00  
>ENSRNOG00000018936 hs-mir-181b 507 514  
AACAUUCAUUGCUGUCGGUGGGUU&AACAUUCACACUGGAGAGAAAUUGUUUGAAUGUCAUGAAUGUG  
.(((((((((((((.(((((((((((((((&.....)))))).....)))))).))))) -  
18.21  
>ENSRNOG00000018936 hs-mir-181b 591 598  
AACAUUCAUUGCUGUCGGUGGGUU&AAGUCUCACAGUGGUGAGAAACCUUUCAAGUGCAAUGAAUGUG  
.(((((((((((((.(((((((((((((((&.....)))))).....)))))).))))) -  
25.30  
>ENSRNOG00000018936 hs-mir-181b 918 925  
AACAUUCAUUGCUGUCGGUGGGUU&AGGCACCAAACUAUUCAUACUGGAGAGAAGUCAUUUGAAUGUA  
.(((((((((((((.(((((((((((((((&.....)))))).....)))))).))))) -  
17.40  
>ENSRNOG00000018936 hs-mir-181b 1422 1429  
AACAUUCAUUGCUGUCGGUGGGUU&AACCAUCAAAUUGUUCAUACAAGUAAGAGACCCUUUGAAUGUA  
.(((((((((((((.(((((((((((((((&.....)))))).....)))))).))))) -  
16.50  
>ENSRNOG00000018936 hs-mir-181b 1927 1934  
AACAUUCAUUGCUGUCGGUGGGUU&GGACAUUUUAGAAUUCAUUAUGACAAGAAUCCUUAUGAAUGUA  
.(((((((((((((.(((((((((((((((&.....)))))).....)))))).))))) -  
19.00  
>ENSRNOG00000018936 hs-mir-181b 2361 2368  
AACAUUCAUUGCUGUCGGUGGGUU&GCUCAUCAGAGAGUCCAUAUAGGUCUGAAACUCUGUGAAUGUG  
.(((((((((((((.(((((((((((((((&.....)))))).....)))))).))))) -  
22.40  
>ENSRNOG00000018936 hs-mir-181b 3473 3480

AACAUUCAUUGCUGUCGGUGGGUU&GCUCAUCAGAGAGUCCAUAUAGGUCUGAAACUCUGUGAAUGUG  
.(((((((((((((.((((.(((((((((((&)))))))).)))).)))).)))).)))).)))). -  
22.40

miRNA: mir-181b

Human predicted target: ENSG00000146830

Mouse predicted target: ENSMUSG00000029714

Rat predicted target: ENSRNOG00000001410

Hs Gene description: PERQ AMINO ACID RICH WITH GYF DOMAIN PROTEIN 1.

[Source:SWISSPROT;Acc:O75420] NM\_022574

mir-181b ENSG00000146830 3237 nt UTR 3 hits 875 1430 1774

-----1-----1-----1-----

>ENSG00000146830 hs-mir-181b 875 882  
AACAUUCAUUGCUGUCGGUGGGUU&UGAACCUGAAAGCCCCAGCUCUCUGCCUUGCCACGUGAAUGUA  
.(((((((((((((.((((.(((((((((((&..)))))))).)))).)))).)))).)))). -  
21.99

>ENSG00000146830 hs-mir-181b 1430 1437  
AACAUUCAUUGCUGUCGGUGGGUU&GUAUUAGGGCAAGGCUUCGCCACUGCCUCCCUCCAUGAAUGUA  
.(((((((((((((.((((.(((((((((((&.....)))))))).)))).)))).)))). -  
19.60

>ENSG00000146830 hs-mir-181b 1774 1781  
AACAUUCAUUGCUGUCGGUGGGUU&CUCUUGCCAGGUGUGGGGAGACUCCUGUUGUGACUGAAUGUA  
.(((((((((((((.((((.(((((((((((&.....)))))))).)))).)))).)))). -  
21.50

mir-181b ENSMUSG00000029714 2368 nt UTR 3 hits 924 1443 1821

-----1-----1-----1-----

>ENSMUSG00000029714 hs-mir-181b 924 931  
AACAUUCAUUGCUGUCGGUGGGUU&GACACUGAAAGCCCCAGCUCUCCUGCCUUGCCACAUGAAUGUA  
.(((((((((((((.((((.(((((((((((&.....)))))))).)))).)))).)))). -  
22.30

>ENSMUSG00000029714 hs-mir-181b 1443 1450  
AACAUUCAUUGCUGUCGGUGGGUU&AGGGCUAGCGAGCGAGCCUGCCACUGCCUCCCUCCAUGAAUGUA  
.(((((((((((((.((((.(((((((((((&.....)))))))).)))).)))).)))). -  
23.90

>ENSMUSG00000029714 hs-mir-181b 1821 1828  
AACAUUCAUUGCUGUCGGUGGGUU&GGCAUUGGAGGGAUGGGAGAGACUCCUGUUGUGACUGAAUGUA  
.(((((((((((((.((((.(((((((((((&.....)))))))).)))).)))).)))). -  
21.50

mir-181b ENSRNOG00000001410 2000 nt UTR 3 hits 898 1422 1815

-----1-----1-----1-----

>ENSRNOG00000001410 hs-mir-181b 898 905  
AACAUUCAUUGCUGUCGGUGGGUU&GACACUGAAAGCCCCAGCUCUCCUGCCUUGCCACAUGAAUGUA  
.(((((((((((((.((((.(((((((((((&.....)))))))).)))).)))).)))). -  
22.30

>ENSRNOG00000001410 hs-mir-181b 1422 1429  
AACAUUCAUUGCUGUCGGUGGGUU&GCAGUAUUAGGGCGAGCCUGUCACUGCCUCCUCCAUGAAUGUA  
.(((((((((((((.....)))))))).)).....)))))))). -  
20.80  
>ENSRNOG00000001410 hs-mir-181b 1815 1822  
AACAUUCAUUGCUGUCGGUGGGUU&GGCAUUGGAGGGUGGGAGAGACUCCUGUUGUGACUGAAUGUA  
.(((((((((((((.....)))))))).)).....)))))))). -  
21.50

miRNA: mir-181b

Human predicted target: ENSG00000161940

Mouse predicted target: ENSMUSG00000000317

Rat predicted target: ENSRNOG00000018811

Hs Gene description: BAZF. [Source:SPTREMBL;Acc:Q8N143]

mir-181b ENSG00000161940 2438 nt UTR 2 hits 1113 1209

-----1--1-----  
-----

>ENSG00000161940 hs-mir-181b 1113 1120  
AACAUUCAUUGCUGUCGGUGGGUU&AUGAUGUGACCUUUUCUGACUCUGCCCAGUCUCUAUGAAUGUUA  
(((((((((((((.....)))))))).)).....)))))))). -  
24.30

>ENSG00000161940 hs-mir-181b 1209 1216  
AACAUUCAUUGCUGUCGGUGGGUU&GUUAACCCAUCCUUUACUACAGAGGCAUAUGGGUUUGAAUGUUA  
(((((((((((((.....)))))))).)).....)))))))). -  
22.96

mir-181b ENSMUSG00000000317 3899 nt UTR 3 hits 1093 1118 1284

-----11-----1-----  
-----

>ENSMUSG00000000317 hs-mir-181b 1093 1100  
AACAUUCAUUGCUGUCGGUGGGUU&GAGUCUGAGUCCUUUACUGCAUGAACAGCUGGGUUUGAAUGUC  
.(((((((((((((.....)))))))).)).....)))))))). -  
20.50

>ENSMUSG00000000317 hs-mir-181b 1118 1125  
AACAUUCAUUGCUGUCGGUGGGUU&CAGCUGGGUUUGAAUGUCCCUUGGCCUCCUUCUUUGAAUGUG  
.(((((((((((((.....)))))))).)).....)))))))). -  
20.80

>ENSMUSG00000000317 hs-mir-181b 1284 1291  
AACAUUCAUUGCUGUCGGUGGGUU&AGACUACCCAACAUUCCAUCUGUCUGGGACCAGUGAAUGUA  
.(((((((((((((.....)))))))).)).....)))))))). -  
24.56

mir-181b ENSRNOG00000018811 2000 nt UTR 3 hits 662 1034 1183

-----1-----1-----1-----  
-----

>ENSRNOG00000018811 hs-mir-181b 662 669  
AACAUUCAUUGCUGUCGGUGGGUU&UUUGAGGACGACGGGAACCUUGUUUUGAUGAACUCUGAAUGUA

```
.(((((((...(((((...((((&.....))))))....))))).- 18.20
>ENSRNOG00000018811 hs-mir-181b 1034 1041
AACAUUCAUUGCUGUCGGUGGGUU&UUAUGUCCCGUGGACUCAUAUGCCCUUCUUCUUGAAUGUUU
(((((((...(((((...((((&.....))))))....))))).- 18.00
>ENSRNOG00000018811 hs-mir-181b 1183 1190
AACAUUCAUUGCUGUCGGUGGGUU&AGACUGCCCAUCAUUACAUCUGUCUGGGACCGGUGAAUGUA
(((((((...(((((...((((&.....))))))....))))).- 24.82
```

miRNA: mir-181b

Human predicted target: ENSG00000164283

Mouse predicted target: ENSMUSG00000042379

Rat predicted target: ENSRNOG00000010797

Hs Gene description: ENDOTHELIAL CELL-SPECIFIC MOLECULE 1 PRECURSOR (ESM-1 SECRETORY PROTEIN) (ESM-1). [Source:SWISSPROT;Acc:Q9NQ30] NM\_007036

mir-181b ENSG00000164283 3387 nt UTR 5 hits 1285 1307 1797 1819 2795

```
-----11-----11-
-----1-----
```

```
>ENSG00000164283 hs-mir-181b 1285 1292
AACAUUCAUUGCUGUCGGUGGGUU&CUGUAUUUUUAUUCUUGAAGUUGGCCAACAGAGUUGUGAAUGUG
(((((((...(((((...((((&.....))))))....))))).- 23.10
>ENSG00000164283 hs-mir-181b 1307 1314
AACAUUCAUUGCUGUCGGUGGGUU&GCCAACAGAGUUGUGAAUGUGUGUGGGGAAGGCCUUUGAAUGUA
(((((((...(((((...((((&.....))))))....))))).- 16.50
>ENSG00000164283 hs-mir-181b 1797 1804
AACAUUCAUUGCUGUCGGUGGGUU&CUGUAUUUUUAUUCUUGAAGUUGGCCAACAGAGUUGUGAAUGUG
(((((((...(((((...((((&.....))))))....))))).- 23.10
>ENSG00000164283 hs-mir-181b 1819 1826
AACAUUCAUUGCUGUCGGUGGGUU&GCCAACAGAGUUGUGAAUGUGUGUGGGGAAGGCCUUUGAAUGUA
(((((((...(((((...((((&.....))))))....))))).- 16.50
>ENSG00000164283 hs-mir-181b 2795 2802
AACAUUCAUUGCUGUCGGUGGGUU&AUAGAAAUUGGGUGUGAAUGAGAUACAAAGUUACAUGAAUGUC
(((((((...(((((...((((&.....))))))....))))).- 14.90
```

mir-181b ENSMUSG00000042379 3359 nt UTR 2 hits 1254 1278

```
-----11-----
-----
```

```
>ENSMUSG00000042379 hs-mir-181b 1254 1261
AACAUUCAUUGCUGUCGGUGGGUU&UUAUAUUUUUAUUCUCAAAACCUUGCCAACAGAGUUGUGAAUGUA
```

.((((((((((..((((((((((&.....)))))))).))))).))))).))))). -  
26.10  
>ENSMUSG00000042379 hs-mir-181b 1278 1285  
AACAUUCAUUGCUGUCGGUGGGUU&CAACAGAGUUGUGAAUGUACUCGUGGGAAGAUCGUGAAUGUA  
.((((((((((..((((((((((&.....)))))))).))))).))))).))))). -  
18.80  
mir-181b ENSRNOG00000010797 2419 nt UTR 2 hits 1131 1155  
-----11-----

>ENSRNOG00000010797 hs-mir-181b 1131 1138  
AACAUUCAUUGCUGUCGGUGGGUU&UUAUUAUUUAGUCUCAAAACUUUGCCAACAGAGUUGUGAAUGUA  
.((((((((((..((((((((((&.....)))))))).))))).))))).))))). -  
24.50  
>ENSRNOG00000010797 hs-mir-181b 1155 1162  
AACAUUCAUUGCUGUCGGUGGGUU&CAACAGAGUUGUGAAUGUACUUGUGGGAAGAUCCUUGAAUGUA  
.((((((((((..((((((((((&.....)))))))).))))).))))).))))). -  
18.70

miRNA: mir-181b  
Human predicted target: ENSG00000165527  
Mouse predicted target: ENSMUSG00000044147  
Rat predicted target: ENSRNOG00000004791  
Hs Gene description: ADP-RIBOSYLATION FACTOR 6.  
[Source:SWISSPROT;Acc:P26438] NM\_001663

mir-181b ENSG00000165527 2508 nt UTR 2 hits 1406 2318  
-----1-----

>ENSG00000165527 hs-mir-181b 1406 1413  
AACAUUCAUUGCUGUCGGUGGGUU&ACGUAGGAUGAAGAGAAAGAACCUACAGAUGACAAUGAAUGUA  
.((((((((((..((((((((((&.....)))))))).))))).))))).))))). -  
30.10  
>ENSG00000165527 hs-mir-181b 2318 2325  
AACAUUCAUUGCUGUCGGUGGGUU&AGUUAAAAUUUUUAUCAUCAAGUGAUUGCUAUUUAUUGAAUGUUG  
((((((((((..((((((((((&.....)))))))).))))).))))).))))). -  
17.90

mir-181b ENSMUSG00000044147 2495 nt UTR 2 hits 1316 2187  
-----1-----

>ENSMUSG00000044147 hs-mir-181b 1316 1323  
AACAUUCAUUGCUGUCGGUGGGUU&AAGUAGGCUGGACGGGAAGAACCUACAGAUGACAAUGAAUGUA  
.((((((((((..((((((((((&.....)))))))).))))).))))).))))). -  
30.10  
>ENSMUSG00000044147 hs-mir-181b 2187 2194  
AACAUUCAUUGCUGUCGGUGGGUU&CAUAGUUAAAAUUUUUAUCAUCAAGUGAUUGCUGUUACUGAAUGUUG  
((((((((((..((((((((((&.....)))))))).))))).))))).))))). -  
16.30

mir-181b ENSRNOG00000004791 2336 nt UTR 2 hits 1298 2173

-----1-----  
-----1-----

>ENSRNOG00000004791 hs-mir-181b 1298 1305  
AACAUUCAUUGCUGUCGGUGGGUU&GGGAAGUAGGCAGAGAAAGAACCUACAGAUGACAAUGAAUGUA  
.((((((((((..(((.(((((((&.....)))))))).)))).)))). -  
30.10

>ENSRNOG00000004791 hs-mir-181b 2173 2180  
AACAUUCAUUGCUGUCGGUGGGUU&CAUAGUUAAAUUUUAUCAAGUGAUUGCUGUUACUGAAUGUUG  
((((((((((..(((.(((((((&.....)))))))).)))).).....)))). -  
16.30

miRNA: mir-181b  
Human predicted target: ENSG00000176624  
Mouse predicted target: ENSMUSG00000037253  
Rat predicted target: ENSRNOG00000015777  
Hs Gene description: NM\_016626

mir-181b ENSG00000176624 2000 nt UTR 3 hits 703 1807 1963  
-----1-----1-

----1-  
>ENSG00000176624 hs-mir-181b 703 710  
AACAUUCAUUGCUGUCGGUGGGUU&UGCAAUUGUGAAUUCUGCCCAUUGCCUCUCUUGGUGAAUGUG  
.((((((((((..(((.(((((((&.....)))))))).).....)))).)))). -  
23.20

>ENSG00000176624 hs-mir-181b 1807 1814  
AACAUUCAUUGCUGUCGGUGGGUU&AAAAGUUACUUAUAAAGACUUGUUCCAUAACUUGAAUGUA  
.((((((((.....(((.(((((((&.....)))))))).)))).)))). -  
19.30

>ENSG00000176624 hs-mir-181b 1963 1970  
AACAUUCAUUGCUGUCGGUGGGUU&CUUGUAGUUUUUUGUGUGUGUGUCUCUUGGUUUUGAAUGUG  
.((((((((((..(((.(((((((&.....)))))))).)))).)))). -  
18.10

mir-181b ENSMUSG00000037253 2000 nt UTR 2 hits 687 1785  
-----1-----1--

-----  
>ENSMUSG00000037253 hs-mir-181b 687 694  
AACAUUCAUUGCUGUCGGUGGGUU&UUUGAUUGUGAAUUCUACCCAUUGCCUCUCUCAGUGAAUGUG  
.((((((((((..(((.(((((((&.....)))))))).).....)))).)))). -  
26.00

>ENSMUSG00000037253 hs-mir-181b 1785 1792  
AACAUUCAUUGCUGUCGGUGGGUU&AAAAGUUACUUAUAAAGACUUGUUCCAUAACUUGAAUGUA  
.((((((((.....(((.(((((((&.....)))))))).)))).)))). -  
19.30

mir-181b ENSRNOG00000015777 2000 nt UTR 2 hits 681 1737  
-----1-----1----

-----  
>ENSRNOG00000015777 hs-mir-181b 681 688  
AACAUUCAUUGCUGUCGGUGGGUU&UUUGAUUGUGAAUUCUACCCAUUGCCUCUCUCAGUGAAUGUG



.((((((((((..((((((((.&.....)))))))).).....)))))))). -  
26.00

>ENSRNOG00000015777 hs-mir-181b 1737 1744  
AACAUUCAUUGCUGUCGGUGGGUU&UUUGAUUGUGAAUCCUACCCAUGCCUCUCUCAGUGAAUGUG  
.((((((((((..((((((((.&.....)))))))).).....)))))))). -  
26.00

miRNA: mir-181c  
Human predicted target: ENSG00000005073  
Mouse predicted target: ENSMUSG00000038210  
Rat predicted target: ENSRNOG00000007627  
Hs Gene description: HOMEBOX PROTEIN HOX-A11 (HOX-1I).  
[Source:SWISSPROT;Acc:P31270] NM\_005523

mir-181c ENSG00000005073 3286 nt UTR 2 hits 1219 2413  
-----1-----  
-----1-----

>ENSG00000005073 hs-mir-181c 1219 1226  
AACAUUCAACCUGUCGGUGAGU&UCCGUGGUUAAACUCGCUCACUGCUAAGAAUUAUUGAAUGUA  
.((((((((((..((((((((.&.....)))))))).).....)))))))). -22.30

>ENSG00000005073 hs-mir-181c 2413 2420  
AACAUUCAACCUGUCGGUGAGU&AUCGAGCUGAAAGGGUAGUGGGACAGAUCUAGAGAUGAAUGUC  
.((((((((((..((((((((.&..)))).).....)))))))). -17.60

mir-181c ENSMUSG00000038210 3254 nt UTR 2 hits 1193 2351  
-----1-----  
-----1-----

>ENSMUSG00000038210 hs-mir-181c 1193 1200  
AACAUUCAACCUGUCGGUGAGU&GUUCCAAGGUUAAACUCGCUCACUGCUAAAAUUAUUGAAUGUA  
.((((((((((..((((((((.&.....)))))))).).....)))))))). -21.30

>ENSMUSG00000038210 hs-mir-181c 2351 2358  
AACAUUCAACCUGUCGGUGAGU&GCUUUCUGAAAGGGGAGAGGGACAGACCCUCUAGAUGAAUGUC  
.((((((((((..((((((((.&)))).).....)))))))). -18.60

mir-181c ENSRNOG00000007627 3239 nt UTR 3 hits 1177 1739 2904  
-----1-----1-----  
-----1-----

>ENSRNOG00000007627 hs-mir-181c 1177 1184  
AACAUUCAACCUGUCGGUGAGU&UCCAAGGUUAAACUCGCUCACUGCUAAAAUUAUUGAAUGUA  
.((((((((((..((((((((.&.....)))))))).).....)))))))). -21.30

>ENSRNOG00000007627 hs-mir-181c 1739 1746  
AACAUUCAACCUGUCGGUGAGU&UCCAAGGUUAAACUCGCUCACUGCUAAAAUUAUUGAAUGUA  
.((((((((((..((((((((.&.....)))))))).).....)))))))). -21.30

>ENSRNOG00000007627 hs-mir-181c 2904 2911  
AACAUUCAACCUGUCGGUGAGU&GAGAGCUGAAAGGGGAGACGGACAGACCCUCUAGAUGAAUGUC  
.((((((((((..((((((((.&.....)))))))).).....)))))))). -17.90

miRNA: mir-181c  
Human predicted target: ENSG00000057663

Mouse predicted target: ENSMUSG00000038160  
 Rat predicted target: ENSRNOG0000000322  
 Hs Gene description: AUTOPHAGY PROTEIN 5-LIKE (APG5-LIKE) (APOPTOSIS-SPECIFIC PROTEIN). [Source:SWISSPROT;Acc:Q9H1Y0] NM\_004849  
 mir-181c ENSG00000057663 4064 nt UTR 2 hits 1193 1271  
 -----1--1-----  
 -----  
 -----  
 >ENSG00000057663 hs-mir-181c 1193 1200  
 AACAUUCAACCGUGUCGUGAGU&AUUUC AUUUCUUGUGAGCUAGCUGGCUGUCCAUAUUGAAUGUUG  
 ((((((((((..((..(((..(((&.....))))))..))))..))))..)))).. -21.80  
 >ENSG00000057663 hs-mir-181c 1271 1278  
 AACAUUCAACCGUGUCGUGAGU&AGACACGAUCAUGGUUUUAGAUCCCAUAUAAAUGAAUGUUU  
 ((((((((((..(((..(((..(((&.....))))..))))..))))..)))).. -16.05  
 mir-181c ENSMUSG00000038160 2250 nt UTR 2 hits 1153 1225  
 -----1-1-----  
 -----  
 -----  
 >ENSMUSG00000038160 hs-mir-181c 1153 1160  
 AACAUUCAACCGUGUCGUGAGU&UGCUGUUGAUUUGUGAGCUAGCUUGCUGUCCACAUUGAAUGUC  
 .(((((((((((..((..(((..(((&.....))))..))))..))))..)))).. -21.60  
 >ENSMUSG00000038160 hs-mir-181c 1225 1232  
 AACAUUCAACCGUGUCGUGAGU&UCAUAAAUAUUGGUUUCUAGAUUCAUAUAAAUGAAUGUUU  
 ((((((((((..((..(((..(((&.....))))..))))..))))..)))).. -13.90  
 mir-181c ENSRNOG0000000322 2000 nt UTR 2 hits 1119 1191  
 -----1--1-----  
 -----  
 -----  
 >ENSRNOG0000000322 hs-mir-181c 1119 1126  
 AACAUUCAACCGUGUCGUGAGU&CUGCCAUAUGACUGUGAGCUAGCUUGCUGUCCAUAUUGAAUGUC  
 .(((((((((((..((..(((..(((&.....))))..))))..))))..)))).. -21.60  
 >ENSRNOG0000000322 hs-mir-181c 1191 1198  
 AACAUUCAACCGUGUCGUGAGU&UCAUAAAUAUUGGUUUUAGAUAUAAAUAUAAAUGGUGAAUGUUU  
 ((((((((((..((..(((..(((&.....))))..))))..))))..)))).. -16.40

miRNA: mir-181c  
 Human predicted target: ENSG00000128000  
 Mouse predicted target: ENSMUSG00000037640  
 Rat predicted target: ENSRNOG00000018885  
 Rat predicted target: ENSRNOG00000018896  
 Rat predicted target: ENSRNOG00000018936  
 Hs Gene description: NM\_032689  
 mir-181c ENSG00000128000 2000 nt UTR 5 hits 92 259 425 509 593  
 ---1-----1-----1---1--1-----  
 -----  
 -----  
 >ENSG00000128000 hs-mir-181c 92 99  
 AACAUUCAACCGUGUCGUGAGU&GGACAUUAUAGAUUUCAUUAUUCGUGAGAACCCUUAUGAAUGUC  
 .(((((((((((.....((..(((..(((&.....))))..))))..))))..)))).. -12.70  
 >ENSG00000128000 hs-mir-181c 259 266

AACAUUCAACCGUCGGUGAGU&AAACAUGUUA AAAUUCAUACUGAUGAGAAACCCUAUGAAUGUA  
.((((((((((..(((((((&.....))))))..))))))..)))))))). -15.20  
>ENSG00000128000 hs-mir-181c 425 432  
AACAUUCAACCGUCGGUGAGU&UGCACAUCAAGAAUUCAUACUGGUAUGAACCGUAUGAAUGUA  
.((((((((((..(((((((&.....))))))..))))))..)))))))). -16.60  
>ENSG00000128000 hs-mir-181c 509 516  
AACAUUCAACCGUCGGUGAGU&CAACAUGUUA AAAUUCAUACUGGUGAGCAACCCUGUGAAUGUA  
.((((((((((..(((((((&.....))))))..))))))..)))))))). -16.50  
>ENSG00000128000 hs-mir-181c 593 600  
AACAUUCAACCGUCGGUGAGU&GCACAUCACAGAAUUCAUACUGGCAUGAAACCCUAUGAAUGUA  
.((((((((((..(((((((&.....))))))..))))))..)))))))). -16.82  
mir-181c ENSMUSG00000037640 2000 nt UTR 7 hits 78 171 468 477 561  
1562 1730  
---1--1-----11--1-----1-----1-----1-----1-----

>ENSMUSG00000037640 hs-mir-181c 78 85  
AACAUUCAACCGUCGGUGAGU&CAGCAUCAAGUAUUCAUACUGGAGAGAAGCCCUAUGAAUGUG  
.((((((((((..(((((((&.....))))))..))))))..)))))))). -14.70  
>ENSMUSG00000037640 hs-mir-181c 171 178  
AACAUUCAACCGUCGGUGAGU&AAGUUUCACAGUGGUGAGAAACCUUUCGAGUGUAAUGAAUGUG  
.((((((((((..(((((((&.....))))))..))))))..)))))))). -16.25  
>ENSMUSG00000037640 hs-mir-181c 468 475  
AACAUUCAACCGUCGGUGAGU&AGGCACCAGAACAUCACACUGGAGAGAAGUCAUUUGAAUGUC  
.((((((((((..(((((((&.....))))))..))))))..)))))))). -16.80  
>ENSMUSG00000037640 hs-mir-181c 477 484  
AACAUUCAACCGUCGGUGAGU&AACAUUCACACUGGAGAGAAGUCAUUUGAAUGUCAUGAAUGUG  
.((((((((((..(((((((&.....))))))..))))))..)))))))). -15.71  
>ENSMUSG00000037640 hs-mir-181c 561 568  
AACAUUCAACCGUCGGUGAGU&AAGUCUCACAGUGGUGAGAAACCUUUCAAAUGUAAUGAAUGUG  
.((((((((((..(((((((&.....))))))..))))))..)))))))). -18.15  
>ENSMUSG00000037640 hs-mir-181c 1562 1569  
AACAUUCAACCGUCGGUGAGU&CAACAUAUGGCCAUUCAUUCUGGUGUGAAAUCAUAUGAAUGUA  
.((((((((((..(((((((&.....))))))..))))))..)))))))). -16.00  
>ENSMUSG00000037640 hs-mir-181c 1730 1737  
AACAUUCAACCGUCGGUGAGU&CGGCACCAGAGCAUCCACACUGGAGAGAAAUCAUUUGAAUGUC  
.((((((((((..(((((((&.....))))))..))))))..)))))))). -16.51  
mir-181c ENSRNOG00000018885 2000 nt UTR 1 hits 851  
-----1-----

>ENSRNOG00000018885 hs-mir-181c 851 858  
AACAUUCAACCGUCGGUGAGU&CCGUUGUUCAUAGAAGAUACUGUUGAGAAUGUCUUUGAAUGUC  
.((((((((((..(((((((&.....))))))..))))))..)))))))). -13.93  
mir-181c ENSRNOG00000018896 2672 nt UTR 8 hits 78 591 750 918 1002  
1254 1338 2328  
---1-----1-----1-----1-----1-----1-----1-----

>ENSRNOG00000018896 hs-mir-181c 78 85  
AACAUUCAACCGUCGGUGAGU&CAGCAUCAGACUAUUCAUACUGGAGAGAAACCCUAUGAAUGUA

.(((((((..((.(.((((((&.....))))))....)))).).....)))))))). -14.70  
>ENSRNOG00000018896 hs-mir-181c 591 598  
AACAUUCAACCGUCGGUGAGU&AAGUUUCACAGUGGUGACAAACCUUUCAAAUGUAAUGAAUGUG  
.(((((((.....(((.&.....))))))....)))).).....)))))))). -16.25  
>ENSRNOG00000018896 hs-mir-181c 750 757  
AACAUUCAACCGUCGGUGAGU&CAACAUAGGCUUAUUC AUGCUGAUGUGAAACCAUUGAAUGUA  
.(((((((.....(((.&.....))))))....)))).).....)))))))). -16.31  
>ENSRNOG00000018896 hs-mir-181c 918 925  
AACAUUCAACCGUCGGUGAGU&AGGCACCAGAGGAUUC AUACUGGAGAGAAGCCAUUGAAUGUA  
.(((((((.....(((.&.....))))))....)))).).....)))))))). -18.94  
>ENSRNOG00000018896 hs-mir-181c 1002 1009  
AACAUUCAACCGUCGGUGAGU&CAGCACCAGCGAGUUCACACUGGUGAGAAACCCUUGAAUGUA  
.(((((((.....(((.&.....))))))....)))).).....)))))))). -17.61  
>ENSRNOG00000018896 hs-mir-181c 1254 1261  
AACAUUCAACCGUCGGUGAGU&CAGCACCAGACCAUUC AUACUGGAGAGAAGUCAUUGAAUGUA  
.(((((((.....(((.&.....))))))....)))).).....)))))))). -17.20  
>ENSRNOG00000018896 hs-mir-181c 1338 1345  
AACAUUCAACCGUCGGUGAGU&CAACACCAGCAUUUUCACACUGGUGAGAAACCUUUGAAUGUA  
.(((((((.....(((.&.....))))))....)))).).....)))))))). -17.61  
>ENSRNOG00000018896 hs-mir-181c 2328 2335  
AACAUUCAACCGUCGGUGAGU&CAACAUUGGGCUAUUC AUGCUGGUGUGAUUAUCAUGAAUGUA  
.(((((((.....(((.&.....))))))....)))).).....)))))))). -16.70  
mir-181c ENSRNOG00000018936 5085 nt UTR 11 hits 78 171 330 498 507  
591 918 1422 1927 2361 3473  
---1--1-----1-----11--1-----1-----1-----1-----1-----  
---1-----1-----1-----1-----1-----1-----1-----1-----  
-----1-----1-----1-----1-----1-----1-----1-----1-----  
>ENSRNOG00000018936 hs-mir-181c 78 85  
AACAUUCAACCGUCGGUGAGU&CAGCAUCAGACUAUUC AUACUGGAGAGAAACCCUAUGAAUGUA  
.(((((((..((.(.((((((&.....))))))....)))).).....)))))))). -14.70  
>ENSRNOG00000018936 hs-mir-181c 171 178  
AACAUUCAACCGUCGGUGAGU&AAGUUUCACAGUGGUGAGAAACCUUUC AAGUGCAAUGAAUGUG  
.(((((((.....(((.&.....))))))....)))).).....)))))))). -16.25  
>ENSRNOG00000018936 hs-mir-181c 330 337  
AACAUUCAACCGUCGGUGAGU&GCACAUAGGAUUAUUC AUGCUGAUGUGAAACCAUAUGAAUGUA  
.(((((((.....(((.&.....))))))....)))).).....)))))))). -15.00  
>ENSRNOG00000018936 hs-mir-181c 498 505  
AACAUUCAACCGUCGGUGAGU&AGGCACCAGAACAUUCACACUGGAGAGAAAUUGUUUGAAUGUC  
.(((((((.....(((.&.....))))))....)))).).....)))))))). -17.20  
>ENSRNOG00000018936 hs-mir-181c 507 514  
AACAUUCAACCGUCGGUGAGU&AACAUUCACACUGGAGAGAAAUUGUUUGAAUGUCAUGAAUGUG  
.(((((((.....(((.&.....))))))....)))).).....)))))))). -15.71  
>ENSRNOG00000018936 hs-mir-181c 591 598  
AACAUUCAACCGUCGGUGAGU&AAGUCUCACAGUGGUGAGAAACCUUUC AAGUGCAAUGAAUGUG  
.(((((((.....(((.&.....))))))....)))).).....)))))))). -18.15  
>ENSRNOG00000018936 hs-mir-181c 918 925  
AACAUUCAACCGUCGGUGAGU&AGGCACCAAACUAUUC AUACUGGAGAGAAGUCAUUGAAUGUA  
.(((((((.....(((.&.....))))))....)))).).....)))))))). -15.80

>ENSRNOG00000018936 hs-mir-181c 1422 1429  
AACAUUCAACCGUGUCGGUGAGU&AACCAUCAAAUUGUUCAUACAAGUAAGAGACCCUUUGAAUGUA  
.((((((((...(((.(((((&.....)))))).....)))))))). -16.80  
>ENSRNOG00000018936 hs-mir-181c 1927 1934  
AACAUUCAACCGUGUCGGUGAGU&GGACAUUUUAGAAUUCAUUAUGACAAGAAUCCUUAUGAAUGUA  
.((((((((...(((.(((((&.....)))))).....)))))))). -16.22  
>ENSRNOG00000018936 hs-mir-181c 2361 2368  
AACAUUCAACCGUGUCGGUGAGU&GCUCAUCAGAGAGUCCAUAUAGGUCUGAAACUCUGUGAAUGUG  
.((((((((...(((.(((((&.....)))))).....)))))))). -20.60  
>ENSRNOG00000018936 hs-mir-181c 3473 3480  
AACAUUCAACCGUGUCGGUGAGU&GCUCAUCAGAGAGUCCAUAUAGGUCUGAAACUCUGUGAAUGUG  
.((((((((...(((.(((((&.....)))))).....)))))))). -20.60

miRNA: mir-181c

Human predicted target: ENSG00000144677

Mouse predicted target: ENSMUSG00000038995

Rat predicted target: ENSRNOG00000011393

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-181c ENSG00000144677 5601 nt UTR 4 hits 120 406 1972 3469

-----1-----1-----  
-----1-----1-----  
-----1-----1-----

>ENSG00000144677 hs-mir-181c 120 127  
AACAUUCAACCGUGUCGGUGAGU&GAAAGUGAGGAUACUCCGUGCUCCAGGCCACAGGGUGAAUGUG  
.((((((((...(((.(((((&.....)))))).....)))))))). -27.00  
>ENSG00000144677 hs-mir-181c 406 413  
AACAUUCAACCGUGUCGGUGAGU&CUCAGAAUCUCUUUCCUACAGGAUGAAGUGCCUUUUGAAUGUUA  
((((((((...(((.(((((&.....)))))).....)))))))). -23.00  
>ENSG00000144677 hs-mir-181c 1972 1979  
AACAUUCAACCGUGUCGGUGAGU&GUAGUCAUUAAGAACCACUGCCUAAAUGUCUUGAAUGUUG  
((((((((...(((.(((((&.....)))))).....)))))))). -16.30  
>ENSG00000144677 hs-mir-181c 3469 3476  
AACAUUCAACCGUGUCGGUGAGU&GGUGUCUGGGUAGUCAUGGAUUUCUGCUGGACAUAUUGAAUGUG  
.((((((((...(((.(((((&.....)))))).....)))))))). -18.30  
mir-181c ENSMUSG00000038995 5349 nt UTR 3 hits 115 432 3351

-----1-----1-----  
-----1-----1-----  
-----1-----1-----

>ENSMUSG00000038995 hs-mir-181c 115 122  
AACAUUCAACCGUGUCGGUGAGU&CAGCCCAGGAAGACUCCGUGCUCCGGGCCACAGGGUGAAUGUC  
.((((((((...(((.(((((&.....)))))).....)))))))). -26.40  
>ENSMUSG00000038995 hs-mir-181c 432 439  
AACAUUCAACCGUGUCGGUGAGU&UCAGAAUCUCUUUCCUACAGGAUGAAGUGCCUUUUGAAUGUUA  
((((((((...(((.(((((&.....)))))).....)))))))). -22.91



AACAUUCAACCGUGUCGGUGAGU&GACACUGAAAGCCCCAGCUCUCCUGCCUUUGCCACAUGAAUGUA  
.((((((((((...(((.(.((.(.(&.....)))))))). -17.70  
>ENSRNOG00000001410 hs-mir-181c 1422 1429  
AACAUUCAACCGUGUCGGUGAGU&GCAGUAUUAGGGCGAGCCUGUCACUGCCUCCUCCAUGAAUGUA  
.((((((((((...(((.(.((.(.(&.....)))))))). -17.50  
>ENSRNOG00000001410 hs-mir-181c 1815 1822  
AACAUUCAACCGUGUCGGUGAGU&GGCAUUGGAGGGGUGGGAGAGACUCCUGUUGUGACUGAAUGUA  
.((((((((((...(((.(.((.(.(&.....)))))))). -17.90

miRNA: mir-181c

Human predicted target: ENSG00000161940

Mouse predicted target: ENSMUSG00000000317

Rat predicted target: ENSRNOG00000018811

Hs Gene description: BAZF. [Source:SPTREMBL;Acc:Q8N143]

mir-181c ENSG00000161940 2438 nt UTR 2 hits 1113 1209

-----1-----1-----  
-----

>ENSG00000161940 hs-mir-181c 1113 1120  
AACAUUCAACCGUGUCGGUGAGU&AUGAUGUGACCUUUUCUGACUCUGCCCAGUCUCUAUGAAUGUUA  
((((((((((...(((.(.((.(.(&.....)))))))). -18.30  
>ENSG00000161940 hs-mir-181c 1209 1216

AACAUUCAACCGUGUCGGUGAGU&GUUAACCCAUCCUUACUACAGAGGCAUAUGGGUUUGAAUGUUA  
((((((((((...(((.(.((.(.(&.....)))))))). -20.90  
mir-181c ENSMUSG00000000317 3899 nt UTR 3 hits 1093 1118 1284

-----11-----1-----  
-----

>ENSMUSG00000000317 hs-mir-181c 1093 1100  
AACAUUCAACCGUGUCGGUGAGU&GAGUCUGAGUCCUUUACUGCAUGAACAGCUGGGUUUGAAUGUC  
.((((((((((...(((.(.((.(.(&.....)))))))). -19.10  
>ENSMUSG00000000317 hs-mir-181c 1118 1125

AACAUUCAACCGUGUCGGUGAGU&CAGCUGGGUUUGAAUGUCCUUGGCCUCCUUCUUUGAAUGUG  
.((((((((((...(((.(.((.(.(&.....)))))))). -15.30  
>ENSMUSG00000000317 hs-mir-181c 1284 1291

AACAUUCAACCGUGUCGGUGAGU&AGACUACCCAACAUUCCAUCUCCUGUCUGGGACCAGUGAAUGUA  
.((((((((((...(((.(.((.(.(&.....)))))))). -18.90  
mir-181c ENSRNOG00000018811 2000 nt UTR 3 hits 662 1034 1183

-----1-----1-----1-----  
-----

>ENSRNOG00000018811 hs-mir-181c 662 669  
AACAUUCAACCGUGUCGGUGAGU&UUUGAGGACGACGGGAACCUUGUUUGAUGAACUCUGAAUGUA  
.((((((((((...(((.(.((.(.(&.....)))))))). -19.90  
>ENSRNOG00000018811 hs-mir-181c 1034 1041

AACAUUCAACCGUGUCGGUGAGU&UUAUGUCCUUGGGACUCAUAUGCCUUCUUCUUUGAAUGUUU  
((((((((((...(((.(.((.(.(&.....)))))))). -16.20  
>ENSRNOG00000018811 hs-mir-181c 1183 1190

AACAUUCAACCGUGUCGGUGAGU&AGACUGCCCAUCAUAUCCAUCUCCUGUCUGGGACCGUGAAUGUA

.(((((((((((((.(((.(.(((.(((((&.....)))))))).)).)).....)))))). -18.90

miRNA: mir-181c

Human predicted target: ENSG00000164283

Mouse predicted target: ENSMUSG00000042379

Rat predicted target: ENSRNOG00000010797

Hs Gene description: ENDOTHELIAL CELL-SPECIFIC MOLECULE 1 PRECURSOR (ESM-1 SECRETORY PROTEIN) (ESM-1). [Source:SWISSPROT;Acc:Q9NQ30] NM\_007036

mir-181c ENSG00000164283 3387 nt UTR 5 hits 1285 1307 1797 1819 2795

-----11-----11-  
-----1-----

>ENSG00000164283 hs-mir-181c 1285 1292  
AACAUUCAACCGUGUCGGUGAGU&CUGUAUUUUUAUUCUUGAAGUUGGCCAACAGAGUUGUGAAUGUG  
.(((((((((((((((.(((.(.(((.(((((&.....)))))))).)).)).....)))))). -21.60

>ENSG00000164283 hs-mir-181c 1307 1314  
AACAUUCAACCGUGUCGGUGAGU&GCCAACAGAGUUGUGAAUGUGUGUGGGGAAGGCCUUUGAAUGUA  
.(((((((((((((((.(((.(.(((.(((((&.....)))))))).)).)).....)))))). -16.65

>ENSG00000164283 hs-mir-181c 1797 1804  
AACAUUCAACCGUGUCGGUGAGU&CUGUAUUUUUAUUCUUGAAGUUGGCCAACAGAGUUGUGAAUGUG  
.(((((((((((((((.(((.(.(((.(((((&.....)))))))).)).)).....)))))). -21.60

>ENSG00000164283 hs-mir-181c 1819 1826  
AACAUUCAACCGUGUCGGUGAGU&GCCAACAGAGUUGUGAAUGUGUGUGGGGAAGGCCUUUGAAUGUA  
.(((((((((((((((.(((.(.(((.(((((&.....)))))))).)).)).....)))))). -16.65

>ENSG00000164283 hs-mir-181c 2795 2802  
AACAUUCAACCGUGUCGGUGAGU&AUAGAAAUUGGGUGUGAAUGAGAUACAAGUUACAUGAAUGUC  
.(((((((((((((((.(((.(.(((.(((((&.....)))))))).)).)).....)))))). -11.94

mir-181c ENSMUSG00000042379 3359 nt UTR 2 hits 1254 1278  
-----11-----

>ENSMUSG00000042379 hs-mir-181c 1254 1261  
AACAUUCAACCGUGUCGGUGAGU&UUAUAUUUUUAUUCUCAACCUUGCCAACAGAGUUGUGAAUGUA  
.(((((((((((((((.(((.(.(((.(((((&.....)))))))).)).)).....)))))). -24.70

>ENSMUSG00000042379 hs-mir-181c 1278 1285  
AACAUUCAACCGUGUCGGUGAGU&CAACAGAGUUGUGAAUGUACUCGUGGGGAAGAUCGUGAAUGUA  
.(((((((((((((((.(((.(.(((.(((((&.....)))))))).)).)).....)))))). -17.50

mir-181c ENSRNOG00000010797 2419 nt UTR 2 hits 1131 1155  
-----11-----

>ENSRNOG00000010797 hs-mir-181c 1131 1138  
AACAUUCAACCGUGUCGGUGAGU&UUAUAUUUUUAUUCUCAACCUUGCCAACAGAGUUGUGAAUGUA  
.(((((((((((((((.(((.(.(((.(((((&.....)))))))).)).)).....)))))). -22.50

>ENSRNOG00000010797 hs-mir-181c 1155 1162  
AACAUUCAACCGUGUCGGUGAGU&CAACAGAGUUGUGAAUGUACUUGUGGGGAAGAUCGUGAAUGUA  
.(((((((((((((((.(((.(.(((.(((((&.....)))))))).)).)).....)))))). -17.70



miRNA: mir-181c

Human predicted target: ENSG00000164463

Mouse predicted target: ENSMUSG00000048249

Rat predicted target: ENSRNOG00000020769

Hs Gene description: ADULT RETINA PROTEIN. [Source:RefSeq;Acc:NM\_153607]  
NM\_153607

mir-181c ENSG00000164463 5222 nt UTR 3 hits 736 984 4518

-----1-----1-----

-----1-----

>ENSG00000164463 hs-mir-181c 736 743  
AACAUUCAACCGUCGGUGAGU&AAUGUUUUUUUGUCCAACUCUUUUUCAGAUUUUUUGAAUGUA  
.((((((((...(((((&.....))))).)))).)))). -17.30

>ENSG00000164463 hs-mir-181c 984 991  
AACAUUCAACCGUCGGUGAGU&UAAGUAAAGUUUUGCACAGCUUACAUGAUACUGUAUGAAUGUA  
.(((((((((.(((((((((&.....))))).)))).)))).)))). -21.00

>ENSG00000164463 hs-mir-181c 4518 4525  
AACAUUCAACCGUCGGUGAGU&UUUUUUAUACUCAAACACAUUGGGAUGUAACAAUGAAUGUC  
.(((((((((.((((((&.....))))).)))).)))). -15.70

mir-181c ENSMUSG00000048249 2000 nt UTR 2 hits 766 1016

-----1-----1-----

>ENSMUSG00000048249 hs-mir-181c 766 773  
AACAUUCAACCGUCGGUGAGU&AUGUCUUUUUGUCCAACUCUUUUUCAGAUUUUUUGAAUGUA  
.((((((((...(((((&.....))))).)))).)))). -16.60

>ENSMUSG00000048249 hs-mir-181c 1016 1023  
AACAUUCAACCGUCGGUGAGU&UAAGUAAAGUUUUGCACAGCUUACAUGAUACUGUAUGAAUGUA  
.(((((((((.(((((((((&.....))))).)))).)))).)))). -21.00

mir-181c ENSRNOG00000020769 3521 nt UTR 4 hits 779 1024 2120 2365

-----1-----1-----

>ENSRNOG00000020769 hs-mir-181c 779 786  
AACAUUCAACCGUCGGUGAGU&AAUGUCUUUUUGUCCAACUCUUUUUCAGAUUUUUUGAAUGUA  
.((((((((...(((((&.....))))).)))).)))). -17.30

>ENSRNOG00000020769 hs-mir-181c 1024 1031  
AACAUUCAACCGUCGGUGAGU&UAAGUAAAGUUUUGCACAGCUUACAUGAUACUGUAUGAAUGUA  
.(((((((((.(((((((((&.....))))).)))).)))).)))). -21.00

>ENSRNOG00000020769 hs-mir-181c 2120 2127  
AACAUUCAACCGUCGGUGAGU&AAUGUCUUUUUGUCCAACUCUUUUUCAGAUUUUUUGAAUGUA  
.((((((((...(((((&.....))))).)))).)))). -17.30

>ENSRNOG00000020769 hs-mir-181c 2365 2372  
AACAUUCAACCGUCGGUGAGU&UAAGUAAAGUUUUGCACAGCUUACAUGAUACUGUAUGAAUGUA  
.(((((((((.(((((((((&.....))))).)))).)))).)))). -21.00

miRNA: mir-182

Human predicted target: ENSG00000043093

Mouse predicted target: ENSMUSG00000027708

Rat predicted target: ENSRNOG00000012734  
Hs Gene description: RP42 HOMOLOG; SQUAMOUS CELL CARCINOMA-RELATED  
ONCOGENE. [Source:RefSeq;Acc:NM\_020640] NM\_020640

mir-182 ENSG00000043093 2906 nt UTR 2 hits 1139 2513

-----1-----  
-----1-----

>ENSG00000043093 hs-mir-182 1139 1146  
UUUGGCAAUGGUAGAACUCACA&UUUGUUGAAUUGCUUUAACUGCUAAUCACUGUGGUUGCCAAAU  
((((((((((..(((.....&.....)))))))).)))). -19.10

>ENSG00000043093 hs-mir-182 2513 2520  
UUUGGCAAUGGUAGAACUCACA&UUGUUUUAACUGAACCAUAGGUACAGUUUCCUUUUUGCCAAAU  
((((((((((..(((.....&.....)))))))).)))). -18.10

mir-182 ENSMUSG00000027708 4896 nt UTR 3 hits 1131 2353 3171

-----1-----  
-----1-----

>ENSMUSG00000027708 hs-mir-182 1131 1138  
UUUGGCAAUGGUAGAACUCACA&GACUGUUGAGAUGGCUUACUGCUAAAUCACUGUGGUUGCCAAGU  
(((((((((((((.....&.....)))))))).)))). -18.20

>ENSMUSG00000027708 hs-mir-182 2353 2360  
UUUGGCAAUGGUAGAACUCACA&UCUUUCCAGACAGAACCAUAGGGAGAGUUUACUUUUUGCCAAAU  
((((((((((..(((.....&.....)))))))).)))). -23.30

>ENSMUSG00000027708 hs-mir-182 3171 3178  
UUUGGCAAUGGUAGAACUCACA&UCUUUCCAGACAGAACCAUAGGGAGAGUUUACUUUUUGCCAAAU  
((((((((((..(((.....&.....)))))))).)))). -23.30

mir-182 ENSRNOG00000012734 3943 nt UTR 3 hits 1123 2004 3308

-----1-----  
-----1-----

>ENSRNOG00000012734 hs-mir-182 1123 1130  
UUUGGCAAUGGUAGAACUCACA&GCUGCUGAAAUGGCUUUACUGCUAAAUCACUGUGGUUGCCAAGU  
((((((((((..(((.....&.....)))))))).)))). -18.80

>ENSRNOG00000012734 hs-mir-182 2004 2011  
UUUGGCAAUGGUAGAACUCACA&GCUGCUGAAAUGGCUUUACUGCUAAAUCACUGUGGUUGCCAAGU  
((((((((((..(((.....&.....)))))))).)))). -18.80

>ENSRNOG00000012734 hs-mir-182 3308 3315  
UUUGGCAAUGGUAGAACUCACA&UUUUUUUAGACAGGCCACAAGGAGAGUUUACUUUUUGCCAAAU  
((((((((((..(((.....&.....)))))))).)))). -23.30

miRNA: mir-182

Human predicted target: ENSG00000075429

Mouse predicted target: ENSMUSG00000040373

Rat predicted target: ENSRNOG00000003288

Hs Gene description: VOLTAGE-DEPENDENT CALCIUM CHANNEL GAMMA-5 SUBUNIT  
(NEURONAL VOLTAGE- GATED CALCIUM CHANNEL GAMMA-5 SUBUNIT).

[Source:SWISSPROT;Acc:Q9UF02] NM\_145811

mir-182 ENSG00000075429 2000 nt UTR 2 hits 675 1348

-----1-----1-----  
-----

>ENSG00000075429 hs-mir-182 675 682  
UUUGGCAAUGGUAGAACUCACA&AAGCUCCUACACAGAUGCAGCUGGACUCGUGCACUUGCCAAC  
.(((((((..((((..(((..&.....))))..)))).))))). -16.60  
>ENSG00000075429 hs-mir-182 1348 1355  
UUUGGCAAUGGUAGAACUCACA&CUGCUCUCCGAAGGCUGCCUGUGAACAUUGGGGGGUUGCCAAU  
.(((((((..((((..(((..&.....))))..)))).))))). -20.26  
mir-182 ENSMUSG00000040373 2000 nt UTR 2 hits 345 993

-----1-----1-----  
-----

>ENSMUSG00000040373 hs-mir-182 345 352  
UUUGGCAAUGGUAGAACUCACA&CCUGCACUCCAGGUUAGCCAAGGCCAGGCUGGAGUUGCCAAGU  
(((((((..((((..(((..&.....))))..)))).))))). -18.20  
>ENSMUSG00000040373 hs-mir-182 993 1000  
UUUGGCAAUGGUAGAACUCACA&CUGCCCUGCUGAUGGUGCCUGUGAACAUUCUGGACGUUGCCAAC  
.(((((((..((((..(((..&.....))))..)))).))))). -24.30  
mir-182 ENSRNOG00000003288 4477 nt UTR 3 hits 350 912 2948

-----1-----1-----  
-----

>ENSRNOG00000003288 hs-mir-182 350 357  
UUUGGCAAUGGUAGAACUCACA&CCUGCACUCCGGGUUAGCCAAGGUCAGUCUGGAGUUGCCAAGU  
(((((((..((((..(((..&.....))))..)))).))))). -22.00  
>ENSRNOG00000003288 hs-mir-182 912 919  
UUUGGCAAUGGUAGAACUCACA&GAGCCCAAACAAGCAUGCCUGUGAACAUUUGGGGGUUGCCAAC  
.(((((((..((((..(((..&.....))))..)))).))))). -18.20  
>ENSRNOG00000003288 hs-mir-182 2948 2955  
UUUGGCAAUGGUAGAACUCACA&CUGC UUUGCCGAGGAUGCCUGUGAACAUUUGGGGGUUGCCAAC  
.(((((((..((((..(((..&.....))))..)))).))))). -20.96

miRNA: mir-182  
Human predicted target: ENSG00000085733  
Mouse predicted target: ENSMUSG00000031078  
Rat predicted target: ENSRNOG00000020823  
Hs Gene description: SRC SUBSTRATE CORTACTIN (AMPLAXIN) (ONCOGENE EMS1).  
[Source:SWISSPROT;Acc:Q14247] NM\_138565  
mir-182 ENSG00000085733 3413 nt UTR 2 hits 278 974  
-----1-----1-----  
-----

>ENSG00000085733 hs-mir-182 278 285  
UUUGGCAAUGGUAGAACUCACA&UUGGUUUUAUGCAUUGAUGGUUUUUUUUUUCUUUUUUGCCAAAU  
(((((((..((((..(((..&..))))..)))).))))). -16.34  
>ENSG00000085733 hs-mir-182 974 981  
UUUGGCAAUGGUAGAACUCACA&GGAACCCUCCUGUCAUGGGGGUGUGAUAUUUUUGCCAAA  
(((((((..((((..(((..&.....))))..)))).))))). -19.90  
mir-182 ENSMUSG00000031078 2096 nt UTR 2 hits 260 849

-----1-----1-----  
-----

>ENSMUSG00000031078 hs-mir-182 260 267  
UUUGGCAAUGGUAGAACUCACA&GGUGAUUACUUGCAGCCAUCCCAGGUGUUUUAGUUUUGCCAAGC  
(((((((((.((((((((((&..))))).)))))))).)))). -20.49

>ENSMUSG00000031078 hs-mir-182 849 856  
UUUGGCAAUGGUAGAACUCACA&UCCUGCAAGCUUCCAGAAGCACGCUGUGUUCUUUUUGCCAAAU  
(((((((((.((((((((((&..))))).)))))))).)))). -20.80  
mir-182 ENSRNOG00000020823 2000 nt UTR 2 hits 261 859

-----1-----1-----  
-----

>ENSRNOG00000020823 hs-mir-182 261 268  
UUUGGCAAUGGUAGAACUCACA&GGGUGAUUACUUUCAGCCAUCCAGGUGUUUUAGCUUUGCCAAGC  
(((((((((.((((((((((&..))))).)))))))).)))). -21.75

>ENSRNOG00000020823 hs-mir-182 859 866  
UUUGGCAAUGGUAGAACUCACA&CAGAAACAUGCUCUCCUGUGGGGAGCUGUGUUCUUUUUGCCAAAU  
(((((((((.((((((((((&..))))).)))))))).)))). -21.60

miRNA: mir-182

Human predicted target: ENSG00000091844

Mouse predicted target: ENSMUSG00000019775

Rat predicted target: ENSRNOG00000018690

Hs Gene description: REGULATOR OF G-PROTEIN SIGNALING 17 (RGS17).

[Source:SWISSPROT;Acc:Q9UGC6] NM\_012419

mir-182 ENSG00000091844 2856 nt UTR 2 hits 203 413

-----1-----1-----  
-----

>ENSG00000091844 hs-mir-182 203 210  
UUUGGCAAUGGUAGAACUCACA&UUAAGUUUGGAGAAAUAACCACACAAAACAAUGAAUUGCCAAAU  
(((((((((.((((((((((&..))))).)))))))).)))). -19.33

>ENSG00000091844 hs-mir-182 413 420  
UUUGGCAAUGGUAGAACUCACA&UAAGGACUUUUGUGCAAUAUGGUCUUAAGAAAUAUUGCCAAA  
(((((((((.((((((((((&..))))).)))))))).)))). -16.80  
mir-182 ENSMUSG00000019775 2676 nt UTR 2 hits 222 432

-----1-----1-----  
-----

>ENSMUSG00000019775 hs-mir-182 222 229  
UUUGGCAAUGGUAGAACUCACA&ACAACAACAAAAAAGCCUAUAUGAGACAAUGAAUUGCCAAAU  
(((((((((.((((((((((&..))))).)))))))).)))). -19.24

>ENSMUSG00000019775 hs-mir-182 432 439  
UUUGGCAAUGGUAGAACUCACA&AAGGACUUUUGUGCAAUAUGGUCUCUUAAGAAACAAUUGCCAAC  
(((((((((.((((((((((&..))))).)))))))).)))). -17.20  
mir-182 ENSRNOG00000018690 2641 nt UTR 2 hits 211 421

-----1-----1-----  
-----

>ENSRNOG00000018690 hs-mir-182 211 218  
UUUGGCAAUGGUAGAACUCACA&UGUUAGGGGGUAAAAAGCCUGUGUAAGAAAUGAGUUGCCAAAU

((((((((((.....(((&.....)))))).....)))))))). -17.95  
>ENSRNOG00000018690 hs-mir-182 421 428  
UUUGGCAAUGGUAGAACUCACA&AAGGACUUCUGUGCAAUAUGGUCUCUUAGAAACAAUUGCCAAC  
.((((((((((.....(((&.....)))))).....)))))))). -17.10

miRNA: mir-182

Human predicted target: ENSG00000105137  
Mouse predicted target: ENSMUSG00000032714  
Rat predicted target: ENSRNOG00000007307  
Hs Gene description: NM\_033025

mir-182 ENSG00000105137 3316 nt UTR 2 hits 499 579

-----1--1-----

>ENSG00000105137 hs-mir-182 499 506  
UUUGGCAAUGGUAGAACUCACA&UUCCAGUUUCCAGGGCCCGUAUUUGGACACUAGUUGCCAAGU  
((((((((((.....(((&.....)))))).....)))))))). -16.79

>ENSG00000105137 hs-mir-182 579 586  
UUUGGCAAUGGUAGAACUCACA&CCAUCUUUCCUGAGCACCAAGGGCUUCCCCUUUUGUUGCCAAAA  
((((((((((.....(((&.....)))))).....)))))))). -19.90

mir-182 ENSMUSG00000032714 2994 nt UTR 2 hits 164 1097

-----1-----1-----

>ENSMUSG00000032714 hs-mir-182 164 171  
UUUGGCAAUGGUAGAACUCACA&GAGUUGCUCAGACUGAGCACCUUGGUUGCUAGGGAGUUGCCAAGG  
((((((((((.....(((&.....)))))).....)))))))). -18.70

>ENSMUSG00000032714 hs-mir-182 1097 1104  
UUUGGCAAUGGUAGAACUCACA&GUACAGCUGAACCUUUUGGAAAGAGCUACCCAGGGUUGCCAAGG  
((((((((((.....(((&.....)))))).....)))))))). -23.40

mir-182 ENSRNOG00000007307 2000 nt UTR 3 hits 53 159 1099

--1--1-----1-----

>ENSRNOG00000007307 hs-mir-182 53 60  
UUUGGCAAUGGUAGAACUCACA&GGAUGGAUUUUCGUUACUAGGGAAUUGCUUCCUGGUUGCCAAGG  
((((((((((.....(((&.....)))))).....)))))))). -19.60

>ENSRNOG00000007307 hs-mir-182 159 166  
UUUGGCAAUGGUAGAACUCACA&GAGUUGCUCAGACUGAGCUCCUGGUUGCUAGGGAGUUGCCAAGG  
((((((((((.....(((&.....)))))).....)))))))). -19.10

>ENSRNOG00000007307 hs-mir-182 1099 1106  
UUUGGCAAUGGUAGAACUCACA&GGUACAAGCUGGGCCUGUGGAAAGAGCUACCGGGUUGCCAAGG  
((((((((((.....(((&.....)))))).....)))))))). -24.50

miRNA: mir-182

Human predicted target: ENSG00000130147  
Mouse predicted target: ENSMUSG00000036206  
Rat predicted target: ENSRNOG00000019316

Hs Gene description: SH3-DOMAIN BINDING PROTEIN 4.

[Source:RefSeq;Acc:NM\_014521]

mir-182 ENSG00000130147 3898 nt UTR 2 hits 199 1049

-----1-----1-----  
-----

>ENSG00000130147 hs-mir-182 199 206  
UUUGGCAAUGGUAGAACUCACA&GGGAGAGGCCUGAAGGGACUGCCUACUGCAGCUCGUUGCCAAU  
((((((((((((((..((...&...)))..))).....)))))))). -20.95

>ENSG00000130147 hs-mir-182 1049 1056  
UUUGGCAAUGGUAGAACUCACA&GCCUUAUGCUGAUGUGCAGAGGUGCCAGCUGCCAUUGCCAAAC  
((((((((((((((((..(((((&.....)))..))).....)))))))). -25.80

mir-182 ENSMUSG00000036206 2441 nt UTR 2 hits 274 1074

-----1-----1-----  
-----

>ENSMUSG00000036206 hs-mir-182 274 281  
UUUGGCAAUGGUAGAACUCACA&UCCAGGGGCAGGUCCCAGGGGCUUUCUACUCCAGUUGCCAAU  
((((((((((((((((((...&.....)))..))).....)))))))). -22.80

>ENSMUSG00000036206 hs-mir-182 1074 1081  
UUUGGCAAUGGUAGAACUCACA&CAUCAUAUGCUGGCGUGUAGAGGUGCCAUCUGCCAUUGCCAAAC  
((((((((((((((((..(((((&.....)))..))).....)))))))). -30.60

mir-182 ENSRNOG00000019316 2470 nt UTR 2 hits 300 1084

-----1-----1-----  
-----

>ENSRNOG00000019316 hs-mir-182 300 307  
UUUGGCAAUGGUAGAACUCACA&CCAGGGGCAGGUCCCAGGGGCUUUCUACUCCAGUUGCCAAU  
((((((((((((((((((...&.....)))..))).....)))))))). -22.80

>ENSRNOG00000019316 hs-mir-182 1084 1091  
UUUGGCAAUGGUAGAACUCACA&CAUCACAUGCUGGCAUGUAGAGGUGUCAUCUGCCAUUGCCAAAC  
((((((((((((((((..(((((&.....)))..))).....)))))))). -32.10

miRNA: mir-182

Human predicted target: ENSG00000140941

Mouse predicted target: ENSMUSG00000031812

Rat predicted target: ENSRNOG00000017905

Hs Gene description: MICROTUBULE-ASSOCIATED PROTEINS 1A/1B LIGHT CHAIN 3B  
(MAP1A/MAP1B LC3 B) (MAP1A/1B LIGHT CHAIN 3 B).

[Source:SWISSPROT;Acc:Q9GZQ8] NM\_022818

mir-182 ENSG00000140941 3682 nt UTR 2 hits 274 2544

-----1-----1-----  
-----

>ENSG00000140941 hs-mir-182 274 281  
UUUGGCAAUGGUAGAACUCACA&UAAAAGUUUAAAAUAAAACUUGCAUUCUAAGUUGCCAAU  
((((((((((((..(((((&.....)))..))).....)))))))). -19.80

>ENSG00000140941 hs-mir-182 2544 2551  
UUUGGCAAUGGUAGAACUCACA&UCCCUGGGAAAGAGCUACUUCAGGGUAGGGCCACAUUGCCAAGG  
((((((((((((((((..(((((&.....)))..))).....)))))))). -21.90

```
mir-182  ENSMUSG00000031812  3278 nt UTR    2 hits 245 2368
-----1-----
-----1-----
>ENSMUSG00000031812 hs-mir-182    245    252
UUUGGCAAUGGUAGAACUCACA&AGAAGUUAAAAUAAAAUACUUUUUGCAUCCUAAGUUGCCAAU
.(((((((((.((((((.....&.....)))))).....)))))))). -17.10
>ENSMUSG00000031812 hs-mir-182    2368    2375
UUUGGCAAUGGUAGAACUCACA&UGGGCCUGCCAGUACAGUAUGUGGUUUCUGAAAUAUUGCCAAGU
(((((((((.((((((.....&.....)))))).....)))))))). -26.10
mir-182  ENSRNOG00000017905  2412 nt UTR    2 hits 232 2236
-----1-----
-----1-----
>ENSRNOG00000017905 hs-mir-182    232    239
UUUGGCAAUGGUAGAACUCACA&CUUUAGUUUAAAAUAAAAUACUUUGCAUCCUAAGUUGCCAAU
.(((((((((.((((((.....&.....)))))).....)))))))). -17.30
>ENSRNOG00000017905 hs-mir-182    2236    2243
UUUGGCAAUGGUAGAACUCACA&GGCCUGCCAGUACAGUAUGUGGUUUGCUGAAGUAUUGCCAAGU
(((((((((.((((((.....&.....)))))).....)))))))). -21.70
```

miRNA: mir-182  
Human predicted target: ENSG00000168374  
Mouse predicted target: ENSMUSG00000021877  
Rat predicted target: ENSRNOG00000012623  
Hs Gene description: ADP-RIBOSYLATION FACTOR 4.  
[Source:SWISSPROT;Acc:P18085] NM\_001660

```
mir-182  ENSG00000168374    2849 nt UTR    2 hits 132 423
-----1-----1-----
-----1-----
>ENSG00000168374 hs-mir-182    132    139
UUUGGCAAUGGUAGAACUCACA&GGGACUGGUUUGGGCAGAAUAUUAACUUUUUUGUUGCCAAU
.(((((((((.((((((.....&.....)))))).....)))))))). -15.80
>ENSG00000168374 hs-mir-182    423    430
UUUGGCAAUGGUAGAACUCACA&AAAUGUAGCAUCCAUUUGUAUUUAUUUCUCUCCCUUGCCAAA
(((((((((.((((((.....&.....)))))).....)))))))). -19.60
mir-182  ENSMUSG00000021877  2853 nt UTR    2 hits 141 428
-----1-----1-----
-----1-----
>ENSMUSG00000021877 hs-mir-182    141    148
UUUGGCAAUGGUAGAACUCACA&UUGGGCAGAAAUACAGCGUUUAAAACUUGUUUUGUUGCCAAU
.(((((((((.((((((.....&.....)))))).....)))))))). -15.80
>ENSMUSG00000021877 hs-mir-182    428    435
UUUGGCAAUGGUAGAACUCACA&AAAUGUAGCAUCCAUUUGUAUUUAUUUCUACCCUUGCCAAA
(((((((((.((((((.....&.....)))))).....)))))))). -24.20
mir-182  ENSRNOG00000012623  2847 nt UTR    2 hits 143 430
-----1-----1-----
-----1-----
>ENSRNOG00000012623 hs-mir-182    143    150
```

UUUGGCAAUGGUAGAACUCACA&UUGGGCAGAAAUACAGCAUUUAAAACUUGUUUUGUUGCCAAU  
.((((((((((..(.....&.....)))))..)))). -15.80  
>ENSRNOG00000012623 hs-mir-182 430 437  
UUUGGCAAUGGUAGAACUCACA&AAAAUGUAGCAUCCAUUUGUAUUUAUUUCCCCUUGCCAAA  
((((((((((..(.....&.....)))))..)))). -19.00

miRNA: mir-183

Human predicted target: ENSG00000147676

Mouse predicted target: ENSMUSG00000024479

Rat predicted target: ENSRNOG00000008615

Hs Gene description: MAL2 PROTEIN. [Source:SWISSPROT;Acc:Q969L2] NM\_052886

mir-183 ENSG00000147676 4185 nt UTR 2 hits 1469 1782

-----1-----1--  
-----

>ENSG00000147676 hs-mir-183 1469 1476  
UAUGGCACUGGUAGAAUUCACUG&AGCCCUUUACUUUCUGGCUGAAGCAUCCCUUGGAGUGCCAUGU  
((((((((((..(.....&.....)))))..)))). -  
21.00

>ENSG00000147676 hs-mir-183 1782 1789  
UAUGGCACUGGUAGAAUUCACUG&CUGUAUUUAUGAAUUAUUAUACAAAGUCAUAAAUGUGCCAUAU  
((((((((((..(.....&.....)))))..)))). -  
19.91

mir-183 ENSMUSG00000024479 4105 nt UTR 2 hits 1394 1703

-----1-----1--  
-----

>ENSMUSG00000024479 hs-mir-183 1394 1401  
UAUGGCACUGGUAGAAUUCACUG&UGGGAAUUGCUCUCGAGCUGACCCAUCACCUAAGAGUGCCAUGU  
((((((((((..(.....&.....)))))..)))). -  
20.99

>ENSMUSG00000024479 hs-mir-183 1703 1710  
UAUGGCACUGGUAGAAUUCACUG&CUGUAUUUAUGAAUUAUUAUACUAUGAAGUCACAAAUGUGCCAUAU  
((((((((((..(.....&.....)))))..)))). -  
22.51

mir-183 ENSRNOG00000008615 2000 nt UTR 2 hits 1388 1694

-----1-----1--  
-----

>ENSRNOG00000008615 hs-mir-183 1388 1395  
UAUGGCACUGGUAGAAUUCACUG&UGACAAUUGCUCUUCUAGCUGACUCAUCACCUAAGAGUGCCAUGC  
((((((((((..(.....&.....)))))..)))). -  
20.60

>ENSRNOG00000008615 hs-mir-183 1694 1701  
UAUGGCACUGGUAGAAUUCACUG&GAAACCUGUAUUUAUGAAUUAUUAUACUAUGAAGUCACAAAUGUGCCAUAU  
((((((((((..(.....&.....)))))..)))). -  
21.50



miRNA: mir-184

Human predicted target: ENSG00000168066

Mouse predicted target: ENSMUSG00000024949

Rat predicted target: ENSRNOG00000021085

Hs Gene description: SPLICING FACTOR 1; ZINC FINGER PROTEIN 162.

[Source:RefSeq;Acc:NM\_004630]

mir-184 ENSG00000168066 2783 nt UTR 2 hits 108 386

-----1-----1-----  
-----

>ENSG00000168066 hs-mir-184 108 115  
UGGACGGAGAACUGAUAAGGGU&CUUUGUUACUUCUUUAUCUUUCCUUUCUUCAGACUCCGUCCAA  
((((((((((..(((.((((.&.....))))))..)))))). -30.10

>ENSG00000168066 hs-mir-184 386 393  
UGGACGGAGAACUGAUAAGGGU&GAGGGUAGGUUCAUCUCCAGGUUCGGGAUCCCAUCCGUCCU  
..((((((((((..(((.((((.&.....))))))..)))))). -21.70

mir-184 ENSMUSG00000024949 2000 nt UTR 1 hits 538

-----1-----1-----  
-----

>ENSMUSG00000024949 hs-mir-184 538 545  
UGGACGGAGAACUGAUAAGGGU&CUUUGUUAUUCCUUAUCUUUCCUUUCUUCAGACUCCGUCCAA  
((((((((((..(((.((((.&.....))))))..)))))). -30.10

mir-184 ENSRNOG00000021085 2000 nt UTR 1 hits 111

-----1-----1-----  
-----

>ENSRNOG00000021085 hs-mir-184 111 118  
UGGACGGAGAACUGAUAAGGGU&CUUUGUUAUUCCUUAUCUUUCCUUUCUUCAGACUCCGUCCAA  
((((((((((..(((.((((.&.....))))))..)))))). -30.10

miRNA: mir-190

Human predicted target: ENSG00000146247

Mouse predicted target: ENSMUSG00000032253

Rat predicted target: ENSRNOG00000008652

Hs Gene description: PLECKSTRIN HOMOLOGY DOMAIN INTERACTING PROTEIN.

[Source:RefSeq;Acc:NM\_017934]

mir-190 ENSG00000146247 2147 nt UTR 2 hits 643 1013

-----1-----1-----  
-----

>ENSG00000146247 hs-mir-190 643 650  
UGAUAUGUUUGAUAUAUAGGU&CUGCCAAACAAGAGAAAUGUACUGAUGAAGGGAAACAUAUCC  
..((((((((((..(((.((((.&.....))))))..)))))). -16.80

>ENSG00000146247 hs-mir-190 1013 1020  
UGAUAUGUUUGAUAUAUAGGU&UGUUGAUCUGGAUUAUUGUCAUUUCUAAACUUUAGACAUAUCU  
..((((((((((..(((.((((.&.....))))))..)))))). -18.30

mir-190 ENSMUSG00000032253 4167 nt UTR 2 hits 751 1127

-----1-----1-----  
-----  
-----

>ENSMUSG00000032253 hs-mir-190 751 758  
UGAUAUGUUUGAUUAUUAUAGGU&CAAACUUAGGAGAAAAAUGUAUUGAUGCAAAGGAAACAUAUCC  
.((((((((((((((((((((.....&.....)))))))))).....)))))))). -15.50  
>ENSMUSG00000032253 hs-mir-190 1127 1134  
UGAUAUGUUUGAUUAUUAUAGGU&ACUUGAUCUGGAUUAUUAUGUCAUUUUUAAACUUCAGACAUAUCC  
.((((((((((((((((((((.....&.....)))))))))).....)))))))). -17.93  
mir-190 ENSRNOG00000008652 2000 nt UTR 2 hits 751 1127

-----1-----1-----  
-----

>ENSRNOG00000008652 hs-mir-190 751 758  
UGAUAUGUUUGAUUAUUAUAGGU&CAAACUUAGGAGAAAAAUGUAUUGAUGCAAAGGAAACAUAUCC  
.((((((((((((((((((((.....&.....)))))))))).....)))))))). -15.50  
>ENSRNOG00000008652 hs-mir-190 1127 1134  
UGAUAUGUUUGAUUAUUAUAGGU&ACGUGAUCUGGAUUAUUAUGUCAUUUUUAAACUUCAGACAUAUCC  
.((((((((((((((((((((.....&.....)))))))))).....)))))))). -17.70

miRNA: mir-194  
Human predicted target: ENSG00000055609  
Mouse predicted target: ENSMUSG00000028935  
Rat predicted target: ENSRNOG00000007997  
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

-----11-----  
-----

>ENSG00000055609 hs-mir-194 722 729  
UGUAACAGCAACUCCAUGUGGA&UUUUUAAAUAAGUUAGAAGAAAGCCAAGCUGCUGCUGUUACC  
.((((((((((((((((((((.....&.....)))))))))).....)))))))). -20.30  
>ENSG00000055609 hs-mir-194 747 754  
UGUAACAGCAACUCCAUGUGGA&CAAGCUGCUGCUGUUACCUGCAGAACUAACAAACCCUGUUACU  
.((((((((((((((((((((.....&.....)))))))))).....)))))))). -14.50  
mir-194 ENSMUSG00000028935 2001 nt UTR 2 hits 715 740

-----11-----  
-----

>ENSMUSG00000028935 hs-mir-194 715 722  
UGUAACAGCAACUCCAUGUGGA&UUUUUAAAUAAGUUAGAAGAAAGCCAAGCUGCUGCUGUUACC  
.((((((((((((((((((((.....&.....)))))))))).....)))))))). -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&UUUUAAAUAAGUUAGAAGAAAGCCAAGCUGCUGCUGUUACC  
.((((((((((.....((.&.....)))))))). -20.30  
>ENSRNOG0000007997 hs-mir-194 742 749  
UGUAACAGCAACUCCAUGUGGA&CAAGCUGCUGCUGUUACCUGCAGAACUAACAAACCCUGUUACU  
.((((((((.....((.&.....)))))))). -14.50

miRNA: mir-195

Human predicted target: ENSG00000100116

Mouse predicted target: ENSMUSG00000006378

Rat predicted target: ENSRNOG00000010596

Hs Gene description: 2-AMINO-3-KETOBUTYRATE COENZYME A LIGASE,  
MITOCHONDRIAL PRECURSOR (EC 2.3.1.29) (AKB LIGASE) (GLYCINE  
ACETYLTRANSFERASE). [Source:SWISSPROT;Acc:O75600] NM\_014291

mir-195 ENSG00000100116 2000 nt UTR 3 hits 687 1194 1580

-----1-----1-----1-----  
-----

>ENSG00000100116 hs-mir-195 687 694  
UAGCAGCACAGAAUAUUGGC&AGGCCAGUCCACCGUUUGUCUCGGGUAGUUUCUGUGCUGCUGU  
((((((((((((((((((.&.....)))))))). -29.80

>ENSG00000100116 hs-mir-195 1194 1201  
UAGCAGCACAGAAUAUUGGC&AGGCUGCCCAGCAGUCAAGGCCAGGAGAGGCGAUUUGCUGCUGC  
((((((((.....((.&.....)))))))). -21.40

>ENSG00000100116 hs-mir-195 1580 1587  
UAGCAGCACAGAAUAUUGGC&AUUCAGGGAAUCCCAGCCUGCGAUCCGGAGGACCUUGCUGCUGG  
((((((((.....((.&.....)))))))). -18.20

mir-195 ENSMUSG00000006378 2165 nt UTR 4 hits 317 772 829 937  
-----1-----1--1--1-----

>ENSMUSG00000006378 hs-mir-195 317 324  
UAGCAGCACAGAAUAUUGGC&UCUGGGAGCCACCGUUUCGUACAUAAGCAUUCUGUGCUGCUGU  
((((((((((((((((.....((.&.....)))))))). -27.56

>ENSMUSG00000006378 hs-mir-195 772 779  
UAGCAGCACAGAAUAUUGGC&UGGGCAGCCUCAAGCCAGGCCAGAAGGGCUGGUUUGCUGCUAC  
((((((((.....((.&.....)))))))). -24.30

>ENSMUSG00000006378 hs-mir-195 829 836  
UAGCAGCACAGAAUAUUGGC&UUCUACCCUGUCUCCUACCGGCAACCAUCACACCUGCUGCUC  
.((((((((.....((.&.....)))))))). -16.59

>ENSMUSG00000006378 hs-mir-195 937 944  
UAGCAGCACAGAAUAUUGGC&GGAAUCUCGCAGGCUCAGCCCCGAGGCUUAUGACUGCUGCUGU  
((((((((.....((.&.....)))))))). -17.71

mir-195 ENSRNOG00000010596 2000 nt UTR 3 hits 853 885 1930  
-----11-----

---1--  
>ENSRNOG00000010596 hs-mir-195 853 860  
UAGCAGCACAGAAUAUUGGC&UAGGCAGCCUGAGGCAAGGCCAGAAGGGCUGGUUUGCUGCUGC  
((((((((.....((.&.....)))))))). -24.00

>ENSRNOG00000010596 hs-mir-195 885 892

UAGCAGCACAGAAUAUUGGC&GUUUGCUGCUGCGAGGGCCGUGUCCUUUGUCUUCUUGCUGCUU  
.(((((((((((((.....((.&.....)))))))).))))). -20.70  
>ENSRNOG00000010596 hs-mir-195 1930 1937  
UAGCAGCACAGAAUAUUGGC&CAGCAGGAGAGCCACCUCUGCAGCUCCAGUCACUGCUGCUGG  
(((((((((((((.....((.&.....)))))))).))))). -19.73

miRNA: mir-195

Human predicted target: ENSG00000116688

Mouse predicted target: ENSMUSG00000029020

Rat predicted target: ENSRNOG00000006904

Hs Gene description: MITOFUSIN 2; MITOCHONDRIAL ASSEMBLY REGULATORY  
FACTOR. [Source:RefSeq;Acc:NM\_014874] NM\_014874

mir-195 ENSG00000116688 3940 nt UTR 3 hits 620 1784 3078

-----1-----1-----  
-----1-----  
-----

>ENSG00000116688 hs-mir-195 620 627  
UAGCAGCACAGAAUAUUGGC&UGAGGCGGGCCUGUGCUGGGGGUGGUAGAAAGGAUGCUGCUGA  
(((((((((((((.....((.&.....)))))))).))))). -18.89

>ENSG00000116688 hs-mir-195 1784 1791  
UAGCAGCACAGAAUAUUGGC&CCUUCUGAAAGAAGUAUGGCCAAAAGCACUUUAAUGCUGCUGA  
(((((((((((((.....((.&.....)))))))).))))). -20.60

>ENSG00000116688 hs-mir-195 3078 3085  
UAGCAGCACAGAAUAUUGGC&AUAGUUUGAAAAGGGCCUUCUUGCCUUAUGCAAUGCUGCUU  
.(((((((((((((.....((.&.....)))))))).))))). -19.30

mir-195 ENSMUSG00000029020 3790 nt UTR 4 hits 1042 1107 1110 1636  
-----1--2-----1-----  
-----

>ENSMUSG00000029020 hs-mir-195 1042 1049  
UAGCAGCACAGAAUAUUGGC&GGCAGGCCUCCUCCUCUUCUGCCCCUGAAGCCUCCUGCUGCUU  
.(((((((((((((.....((.&.....)))))))).))))). -19.15

>ENSMUSG00000029020 hs-mir-195 1107 1114  
UAGCAGCACAGAAUAUUGGC&GGCAGGCCUCCUCCUCUUCUGCCCCUGAAGCCUCCUGCUGCUGC  
(((((((((((((.....((.&.....)))))))).))))). -20.35

>ENSMUSG00000029020 hs-mir-195 1110 1117  
UAGCAGCACAGAAUAUUGGC&AGGCCUCCUCCUCUUCUGCCCCUGAAGCCUCCUGCUGCUGCUC  
.(((((((((((((.....((.&.....)))))))).))))). -20.30

>ENSMUSG00000029020 hs-mir-195 1636 1643  
UAGCAGCACAGAAUAUUGGC&CUGAGAGACAUUAGCAGAGAGCACUUUAGUUUUUUGCUGCUAA  
(((((((((((((.....((.&.....)))))))).))))). -20.50

mir-195 ENSRNOG00000006904 3283 nt UTR 3 hits 945 1911 2516  
-----1-----  
--1-----1-----

>ENSRNOG00000006904 hs-mir-195 945 952  
UAGCAGCACAGAAUAUUGGC&CUCAAGCCUCCUCCUCUUCUGCUCCUGAAGCCUCCUGCUGCUU  
.(((((((((((((.....((.&.....)))))))).))))). -19.35

>ENSRNOG00000006904 hs-mir-195 1911 1918  
UAGCAGCACAGAAUAUUGGC&CUCAAGCCUCCUCCUCUUCUGCUCCUGAAGCCUCCUGCUGCUU  
.((((((((((((.....(((&.....)).....)))))).....))))). -19.35  
>ENSRNOG00000006904 hs-mir-195 2516 2523  
UAGCAGCACAGAAUAUUGGC&CUGAGAGACGUUUAGCAGAGAGCACUUUAGUUUCUUGCUGCUAA  
((((((((((((.....(((&.....)).....)))))).....))))). -22.10

miRNA: mir-195

Human predicted target: ENSG00000119403

Mouse predicted target: ENSMUSG00000026873

Rat predicted target: ENSRNOG00000018874

mir-195 ENSG00000119403 4252 nt UTR 4 hits 501 1377 1480 2216

-----1-----1-----1-----1-----1-----  
-----1-----  
-----

>ENSG00000119403 hs-mir-195 501 508  
UAGCAGCACAGAAUAUUGGC&CUUUGAGAGAGCAUGGGAGAAGGUGGAUAAGAGGAUGCUGCUC  
.((((((((((((.....(((&.....)).....)))))).....))))). -17.50

>ENSG00000119403 hs-mir-195 1377 1384  
UAGCAGCACAGAAUAUUGGC&CAAAAUUGGGAGGGGGAAGAGGACCCUGAUGUUUUGCUGCUU  
.((((((((((((.....(((&.....)).....)))))).....))))). -20.30

>ENSG00000119403 hs-mir-195 1480 1487  
UAGCAGCACAGAAUAUUGGC&AGGGUGGGCACCAGAUGGGGACCAGCCUUGCCAACUGCUGCUGU  
((((((((((((.....(((&.....)).....)))))).....))))). -19.20

>ENSG00000119403 hs-mir-195 2216 2223  
UAGCAGCACAGAAUAUUGGC&CCUCUGCACCUUCAAAAAGAUUCAUGGUUUUAAUUGCUGCUU  
.((((((((((((.....(((&.....)).....)))))).....))))). -17.40

mir-195 ENSMUSG00000026873 3964 nt UTR 3 hits 153 1219 1905

-----1-----1-----  
--1-----  
-----

>ENSMUSG00000026873 hs-mir-195 153 160  
UAGCAGCACAGAAUAUUGGC&GCCCCUGCCUGCUGCCUGCCAGGCCAAGGCCUGUGUGCUGCUGU  
((((((((((((.....(((&.....)).....)))))).....))))). -28.10

>ENSMUSG00000026873 hs-mir-195 1219 1226  
UAGCAGCACAGAAUAUUGGC&GGCAAGGGCACCAGACUGAGACUAGCCUCCUGACUGCUGCUGU  
((((((((((((.....(((&.....)).....)))))).....))))). -20.30

>ENSMUSG00000026873 hs-mir-195 1905 1912  
UAGCAGCACAGAAUAUUGGC&CCUGUGCACCUUUGAAAAGAUUUUGGUUUUAAUUGCUGCUU  
.((((((((((((.....(((&.....)).....)))))).....))))). -15.94

mir-195 ENSRNOG00000018874 2000 nt UTR 3 hits 155 1234 1944

-----1-----1-----  
---1--

>ENSRNOG00000018874 hs-mir-195 155 162  
UAGCAGCACAGAAUAUUGGC&GCCCCUGCCUGCUGUCUGCCAGGCCAAGGUCUGUGUGCUGCUGU  
((((((((((((.....(((&.....)).....)))))).....))))). -28.70

>ENSRNOG00000018874 hs-mir-195 1234 1241

UAGCAGCACAGAAUAUUGGC&GGCAGGGGCACCAGACUGGGACCAGCUUCCUGACUGCUGCUGU  
((((((((((((((..(((((.&.....))))))..)))))))). -21.30  
>ENSRNOG00000018874 hs-mir-195 1944 1951  
UAGCAGCACAGAAUAUUGGC&CCCUGUGCACCUUUGAAGAGAUUCUGGUUUUAAAUUGCUGCUU  
((((((((((((((.....&.....)))))).....))))). -17.80

miRNA: mir-195

Human predicted target: ENSG00000123329  
Mouse predicted target: ENSMUSG00000040345  
Rat predicted target: ENSRNOG00000006946  
Hs Gene description: RHO GTPASE ACTIVATING PROTEIN 9.  
[Source:RefSeq;Acc:NM\_032496]

mir-195 ENSG00000123329 2252 nt UTR 3 hits 816 2132 2144  
-----1-----  
-----2-----

>ENSG00000123329 hs-mir-195 816 823  
UAGCAGCACAGAAUAUUGGC&UAGCAAGUGGGCAAUGGGGGCAGAAGUCGAGGUGGUGCUGCUGC  
((((((((((((((..(((((.&.....))))))..)))))))). -23.20  
>ENSG00000123329 hs-mir-195 2132 2139

UAGCAGCACAGAAUAUUGGC&GGAGGAGCGGCGGCUGACAGUAUAGGCAGAGCUGAUGCUGCUGG  
((((((((((((((..(((((.&.....))))))..)))))).....))))). -20.70  
>ENSG00000123329 hs-mir-195 2144 2151

UAGCAGCACAGAAUAUUGGC&GCUGACAGUAUAGGCAGAGCUGAUGCUGCUGGAGCUGCUGCUGC  
((((((((((((((..(((((.&.....))))))..)))))).....))))). -23.90  
mir-195 ENSMUSG00000040345 2274 nt UTR 4 hits 737 869 2062 2074  
-----1-----1-----

-----2-----  
>ENSMUSG00000040345 hs-mir-195 737 744  
UAGCAGCACAGAAUAUUGGC&UAGCAAGGGGACAGCGGGGGCAGAAGUCGGGGUGGUGCUGCUGG  
((((((((((((((..(((((.&.....))))))..)))))))). -22.70  
>ENSMUSG00000040345 hs-mir-195 869 876

UAGCAGCACAGAAUAUUGGC&GCAGGUGCAAAGCCAGAUCCAUAUGCUGCCCGCCGUGCUGCUGG  
((((((((((((((..(((((.&.....))))))..)))))).....))))). -20.75  
>ENSMUSG00000040345 hs-mir-195 2062 2069

UAGCAGCACAGAAUAUUGGC&GGAGGACCUGCGGCUGACUGUGUAAGCAGAGCUCAUGCUGCUGG  
((((((((((((((..(((((.&.....))))))..)))))).....))))). -17.30  
>ENSMUSG00000040345 hs-mir-195 2074 2081

UAGCAGCACAGAAUAUUGGC&GCUGACUGUGUAAGCAGAGCUCAUGCUGCUGGAGCUGCUGCUGC  
((((((((((((((..(((((.&.....))))))..)))))).....))))). -20.80  
mir-195 ENSRNOG00000006946 2245 nt UTR 7 hits 725 854 857 860 863  
2053 2065

-----1-----#-----  
-----2-----

>ENSRNOG00000006946 hs-mir-195 725 732  
UAGCAGCACAGAAUAUUGGC&UAGCAAGGUGGUAGCGGGGGCAGAAGCCGGGGUGGUGCUGCUGG  
((((((((((((((..(((((.&.....))))))..)))))))). -25.40  
>ENSRNOG00000006946 hs-mir-195 854 861

```

UAGCAGCACAGAAUAUUGGC&AAAGCAGGUGAUGCAAAGCCAGAUCCAAACGUAGCUGCUGCUGC
((((((((.....(((((&.....)))))).....)))))))). -18.60
>ENSRNOG00000006946 hs-mir-195      857      864
UAGCAGCACAGAAUAUUGGC&GCAGGUGAUGCAAAGCCAGAUCCAAACGUAGCUGCUGCUGCUGC
((((((((((((.....(((((&.....)))))).....)))))))). -23.50
>ENSRNOG00000006946 hs-mir-195      860      867
UAGCAGCACAGAAUAUUGGC&GGUGAUGCAAAGCCAGAUCCAAACGUAGCUGCUGCUGCUGCUGC
((((((((((((.....(((((&.....)))))).....)))))))). -23.50
>ENSRNOG00000006946 hs-mir-195      863      870
UAGCAGCACAGAAUAUUGGC&GAUGCAAAGCCAGAUCCAAACGUAGCUGCUGCUGCUGCUGCUGG
((((((((((((.....(((((&.....)))))).....)))))))). -22.70
>ENSRNOG00000006946 hs-mir-195     2053     2060
UAGCAGCACAGAAUAUUGGC&CGAGGACCGGCGGCUGACUGUGUACGCGGAGCUAAUGCUGCUGG
((((((((.....(((((&.....)))))).....)))))))). -18.40
>ENSRNOG00000006946 hs-mir-195     2065     2072
UAGCAGCACAGAAUAUUGGC&GCUGACUGUGUACGCGGAGCUAAUGCUGCUGGAGCUGCUGCUGC
((((((((((((.....(((((&.....)))))).....)))))))). -24.40

```

miRNA: mir-195

Human predicted target: ENSG00000158796

Mouse predicted target: ENSMUSG00000013973

Rat predicted target: ENSRNOG00000003779

Hs Gene description: DEATH EFFECTOR DOMAIN-CONTAINING PROTEIN (DEATH EFFECTOR DOMAIN- CONTAINING TESTICULAR MOLECULE) (DEDPRO1) (FLDED-1) (KE05). [Source:SWISSPROT;Acc:075618] NM\_004216

mir-195 ENSG00000158796 3166 nt UTR 3 hits 535 1112 1595

```

-----1-----1-----1-----
-----

```

```

>ENSG00000158796 hs-mir-195      535      542
UAGCAGCACAGAAUAUUGGC&AGCUGUGGCCCUUCCACUCUCUCCUGGCCUCUGGUGCUGCUC
.((((((((((((.....(((((&.....)))))).....)))))))). -21.80
>ENSG00000158796 hs-mir-195     1112     1119
UAGCAGCACAGAAUAUUGGC&ACAGACUUUAUGAUUAUUAUUUUUCAAUGCCAGUGCUGCUC
.((((((((.....(((((&.....)))))).....)))))))). -20.80
>ENSG00000158796 hs-mir-195     1595     1602
UAGCAGCACAGAAUAUUGGC&UAACUUGCUCUCUUCUCAUGGUGGCGUCCACACUGUGCUGCUC
((((((((((((.....((.&.....)))))).....)))))))). -23.40
mir-195 ENSMUSG00000013973 2412 nt UTR 3 hits 524 1069 1543
-----1-----1-----1-----
-----

```

```

>ENSMUSG00000013973 hs-mir-195      524      531
UAGCAGCACAGAAUAUUGGC&AAGCUGUGGCCCUUUGCAGUCUCUCCUGGCCUUGGUGCUGCUC
.((((((((.....(((((&.....)))))).....)))))))). -20.00
>ENSMUSG00000013973 hs-mir-195     1069     1076
UAGCAGCACAGAAUAUUGGC&ACAUUAUGAUUAUUAUUUUUUUCAAUGCCAGUGCUGCUC
.((((((((.....(((((&.....)))))).....)))))))). -20.80
>ENSMUSG00000013973 hs-mir-195     1543     1550

```

UAGCAGCACAGAAUAUUGGC&CUUGCUCUUGUUUCAUGGUGGCGUCCACACUGCGCUGCUGCUAU  
((((((((((((((((((..(((&...))..)))))))).)).....)))))))). -21.66  
mir-195 ENSRNOG00000003779 2487 nt UTR 4 hits 534 1076 1545 1548  
-----1-----1-----2-----  
-----  
>ENSRNOG00000003779 hs-mir-195 534 541  
UAGCAGCACAGAAUAUUGGC&AGCUGUGGCCCUUUGCACUGUCUCCUGGCCUCGGGUGCUGCUC  
((((((((((((((((((..(((&...))..)))))))).)).....)))))))). -21.00  
>ENSRNOG00000003779 hs-mir-195 1076 1083  
UAGCAGCACAGAAUAUUGGC&UUAUGAUUGAUUAUAUAUUUUUUUCAAUGCCAGUGCUGCUC  
((((((((((((((((((..(((&...))..)))))))).)).....)))))))). -20.80  
>ENSRNOG00000003779 hs-mir-195 1545 1552  
UAGCAGCACAGAAUAUUGGC&UAACUUGCUCUUGUCUCAUGGUGGCGUCCACACUGUGCUGCUGC  
((((((((((((((((((..(((&...))..)))))))).)).....)))))))). -23.40  
>ENSRNOG00000003779 hs-mir-195 1548 1555  
UAGCAGCACAGAAUAUUGGC&CUUGCUCUUGUCUCAUGGUGGCGUCCACACUGUGCUGCUGCUAU  
((((((((((((((((((..(((&...))..)))))))).)).....)))))))). -18.26

miRNA: mir-195

Human predicted target: ENSG00000161939

Mouse predicted target: ENSMUSG00000020831

Rat predicted target: ENSRNOG00000018829

mir-195 ENSG00000161939 2255 nt UTR 2 hits 415 727

-----1-----1-----  
-----  
>ENSG00000161939 hs-mir-195 415 422  
UAGCAGCACAGAAUAUUGGC&AUUGGCAGACUCGCUUCCUGUGCCAAUAUUUCUGUGCUGCUAG  
((((((((((((((((((((((..(((&...))..)))))))).)).....)))))))). -40.60  
>ENSG00000161939 hs-mir-195 727 734  
UAGCAGCACAGAAUAUUGGC&UUGGACGUGGCCACAGUGCCGUACAAACCACAGUGUGCUGCUGG  
((((((((((((((((((((((..(((&...))..)))))))).)).....)))))))). -22.51  
mir-195 ENSMUSG00000020831 2252 nt UTR 3 hits 391 723 1308  
-----1-----1-----1-----  
-----  
>ENSMUSG00000020831 hs-mir-195 391 398  
UAGCAGCACAGAAUAUUGGC&AUUGGCAGACUCACUCCCCAUGCCAAUAUUUCUGUGCUGCUAG  
((((((((((((((((((((((((((..(((&...))..)))))))).)).....)))))))). -40.60  
>ENSMUSG00000020831 hs-mir-195 723 730  
UAGCAGCACAGAAUAUUGGC&UUGGACGUGGCCACAGUGCCGUACAAACCACAGUGUGCUGCUGG  
((((((((((((((((((((((((((..(((&...))..)))))))).)).....)))))))). -22.51  
>ENSMUSG00000020831 hs-mir-195 1308 1315  
UAGCAGCACAGAAUAUUGGC&CAUCUGGACCAGAGGGCAAAGUAUUCAACCCCAAGUGCUGCUU  
((((((((((((((((((((((((((..(((&...))..)))))))).)).....)))))))). -19.11  
mir-195 ENSRNOG00000018829 2258 nt UTR 3 hits 877 1214 1811  
-----1-----1-----1-----  
-----  
>ENSRNOG00000018829 hs-mir-195 877 884



UAGCAGCACAGAAUUAUUGGC&AUUGGCAGACUCACUUACCCGUGCCAAUUAUUCUGUGCUGCUAG  
(((((((((((((((((((((&.....)))))))))....)))). -40.60  
>ENSRNOG00000018829 hs-mir-195 1214 1221  
UAGCAGCACAGAAUUAUUGGC&UUGGACGUGGCCACAGUGCCGUACAAACCACAGUGUGCUGCUGG  
((((((((((((.....(((((&.....)))).....)))))....)))). -22.51  
>ENSRNOG00000018829 hs-mir-195 1811 1818  
UAGCAGCACAGAAUUAUUGGC&CUUCUGGACCAGAGGGCAAAGUAUUCAACCCCAAGUGCUGCUC  
((((((((((((.....(((((&.....)))))))))....)))). -19.11

miRNA: mir-195

Human predicted target: ENSG00000163444  
Mouse predicted target: ENSMUSG00000042305  
Rat predicted target: ENSRNOG00000003594  
Hs Gene description: NM\_138391

mir-195 ENSG00000163444 2500 nt UTR 3 hits 1146 1300 1504  
-----1-----1-----1-----  
-----

>ENSG00000163444 hs-mir-195 1146 1153  
UAGCAGCACAGAAUUAUUGGC&AUAAGCACUAGCGACUUUGCUCUGCCUGUACUGUGCUGCUU  
((((((((((((.....(((((&.....))))..)))))))))....)))). -25.00  
>ENSG00000163444 hs-mir-195 1300 1307  
UAGCAGCACAGAAUUAUUGGC&AAUCACGUUUUCUGUUUUGCUAAGGAGAAAACCUUGCUGCUU  
((((((((((((.....(((((&.....)))))).....)))))....)))). -17.41  
>ENSG00000163444 hs-mir-195 1504 1511  
UAGCAGCACAGAAUUAUUGGC&CCUAGGAAUAUUCUAGAAAGCAUCUGCUUAAUUUUGCUGCUAA  
((((((((((((.....(((((&.....))))..)))))))))....)))). -18.00  
mir-195 ENSMUSG00000042305 3912 nt UTR 4 hits 399 1599 1602 2468  
-----1-----1-----1-----1-----  
-----

>ENSMUSG00000042305 hs-mir-195 399 406  
UAGCAGCACAGAAUUAUUGGC&AGGAACUCAGAGGCUUAAAUGGUUGCUCCAUGUUGCUGCUC  
((((((((((((.....(((((&.....)))))))))....)))). -20.30  
>ENSMUSG00000042305 hs-mir-195 1599 1606  
UAGCAGCACAGAAUUAUUGGC&UGCUAUUUAAAGACCAUUCUUAAGCAUCUGUUUAAUGCUGCUGC  
((((((((((((.....(((((&.....))))..))))))..)))))))). -19.80  
>ENSMUSG00000042305 hs-mir-195 1602 1609  
UAGCAGCACAGAAUUAUUGGC&UAUUUAAAGACCAUUCUUAAGCAUCUGUUUAAUGCUGCUGCUGA  
((((((((((((.....(((((&.....))))..))))..)))))))). -20.00  
>ENSMUSG00000042305 hs-mir-195 2468 2475  
UAGCAGCACAGAAUUAUUGGC&CUGCCUAUGUGCACAUUGUAUAGAACAGUUCACUGCUGCUGG  
((((((((((((.....(((((&..)))))).....)))))....)))). -19.95  
mir-195 ENSRNOG00000003594 2487 nt UTR 3 hits 400 1617 2462  
-----1-----1-----1-----1-----  
-----

>ENSRNOG00000003594 hs-mir-195 400 407  
UAGCAGCACAGAAUUAUUGGC&AGGAACCCAGAGGCUUAAAACAGUUGUCCAAUGUUGCUGCUC

.(((((((.....((((((.&.....)))))))))))). -20.30  
>ENSRNOG00000003594 hs-mir-195 1617 1624  
UAGCAGCACAGAAUAUUGGC&UAUUUACAGAACAUCUUUAGCAUCUGUUUAAUACUGCUGCUGA  
(((((((.....((((((.&.....)))))))))))). -20.30  
>ENSRNOG00000003594 hs-mir-195 2462 2469  
UAGCAGCACAGAAUAUUGGC&GCCUGUGUGCACAUAUGUACAUAUAGAACAGUUCUCUGCUGCUGG  
(((((((.....((((((.&.....)))))))))))). -22.84

miRNA: mir-195

Human predicted target: ENSG00000167778

Mouse predicted target: ENSMUSG00000036966

Rat predicted target: ENSRNOG00000010793

Hs Gene description: NM\_032840

mir-195 ENSG00000167778 3227 nt UTR 3 hits 467 912 1125

-----1-----1-----1-----  
-----

>ENSG00000167778 hs-mir-195 467 474  
UAGCAGCACAGAAUAUUGGC&CUUUCUUGUUUUCUUUCCUGGUUGUGUGAACCAGUUGCUGCUGU  
(((((((.....((((((.&.....)))))))))))). -19.01

>ENSG00000167778 hs-mir-195 912 919  
UAGCAGCACAGAAUAUUGGC&CCUCCCCUUUUCUGCCCCGUCCCAUGCCUCAGCUUGCUGCUU  
.(((((((.....((((((.&.....)))))))))))). -18.60

>ENSG00000167778 hs-mir-195 1125 1132  
UAGCAGCACAGAAUAUUGGC&CGGGUAGGGCUGUAGGGAAAGCGGGUGAGCUGUUGUGCUGCUGG  
(((((((.....((((((.&.....)))))))))))). -25.30

mir-195 ENSMUSG00000036966 3040 nt UTR 3 hits 356 749 933  
-----1-----1-----1-----  
-----

>ENSMUSG00000036966 hs-mir-195 356 363  
UAGCAGCACAGAAUAUUGGC&AAUUCUCUUCAUCCCCUCUCCUCAUGUAAGCCAGUUGCUGCUGU  
(((((((.....((((((.&.....)))))))))))). -21.71

>ENSMUSG00000036966 hs-mir-195 749 756  
UAGCAGCACAGAAUAUUGGC&CUUCACCUACCCACCCCCACCCUGUGCCCCAGCUUGCUGCUU  
.(((((((.....((((((.&.....)))))))))))). -17.90

>ENSMUSG00000036966 hs-mir-195 933 940  
UAGCAGCACAGAAUAUUGGC&ACAGUGGGUAGGGCUGGGGAGGGGUUUGUUGUCGUGCUGCUGG  
(((((((.....((((((.&.....)))))))))))). -21.40

mir-195 ENSRNOG00000010793 2974 nt UTR 4 hits 307 868 1321 1897  
-----1-----1-----1-----  
-----

>ENSRNOG00000010793 hs-mir-195 307 314  
UAGCAGCACAGAAUAUUGGC&AAUUCUCUUCAUCCUUCUCCUGUGUGAACCAGUUGCUGCUGU  
(((((((.....((((((.&.....)))))))))))). -19.01

>ENSRNOG00000010793 hs-mir-195 868 875  
UAGCAGCACAGAAUAUUGGC&GCACAGUGGGGACUGGGGAGGGGAUUCGUUGUCAUGCUGCUGG  
(((((((.....((((((.&.....)))))))))))). -19.16

>ENSRNOG00000010793 hs-mir-195 1321 1328

UAGCAGCACAGAAUAUUGGC&AAUUCUCUUCUCCUCGUGUGAACCAGUUGCUGCUGU  
((((((((.....(((((&.....)))))))))))). -19.01  
>ENSRNOG00000010793 hs-mir-195 1897 1904  
UAGCAGCACAGAAUAUUGGC&GCACAGUGGUGGGACUGGGGAGGGAUUCGUUGUCAUGCUGCUGG  
((((((((.....(((((&.....)))))))))))). -19.16

miRNA: mir-195

Human predicted target: ENSG00000175602

Mouse predicted target: ENSMUSG00000042878

Rat predicted target: ENSRNOG00000020565

Hs Gene description: DELTA-INTERACTING PROTEIN A (HEPATITIS DELTA ANTIGEN INTERACTING PROTEIN A). [Source:SWISSPROT;Acc:Q15834] NM\_006848

mir-195 ENSG00000175602 2243 nt UTR 4 hits 1048 1051 1547 1550  
-----11-----2-----

>ENSG00000175602 hs-mir-195 1048 1055  
UAGCAGCACAGAAUAUUGGC&AGGAGGGGGCGGCAGAAUGGCCUGGUCCAUCACCUGCUGCUGC  
((((((((.....(((((&.....)))))))))))). -18.44

>ENSG00000175602 hs-mir-195 1051 1058  
UAGCAGCACAGAAUAUUGGC&AGGGGGCGGCAGAAUGGCCUGGUCCAUCACCUGCUGCUGCUGG  
((((((((.....(((((&.....)))))))))))). -23.60

>ENSG00000175602 hs-mir-195 1547 1554  
UAGCAGCACAGAAUAUUGGC&UGGAGAGCCAAGGGGGUCAGAGGAUGGGUCUCCGCUGCUGCUGC  
((((((((.....(((((&.....)))))))))))). -20.93

>ENSG00000175602 hs-mir-195 1550 1557  
UAGCAGCACAGAAUAUUGGC&AGAGCCAAGGGGGUCAGAGGAUGGGUCUCCGCUGCUGCUGCUAC  
((((((((.....(((((&.....)))))))))))). -23.89

mir-195 ENSMUSG00000042878 2000 nt UTR 3 hits 1051 1534 1537  
-----1-----2-----

>ENSMUSG00000042878 hs-mir-195 1051 1058  
UAGCAGCACAGAAUAUUGGC&UUGUGCCAUCAGGAGGAGCCUCAGGAUGUCCGGUGCUGCUGG  
((((((((.....(((((&.....)))))))))))). -23.60

>ENSMUSG00000042878 hs-mir-195 1534 1541  
UAGCAGCACAGAAUAUUGGC&AGGAGAGCCCAGGGGGUCGGAGGAGGGGUCGCCACUGCUGCUGC  
((((((((.....(((((&.....)))))))))))). -18.40

>ENSMUSG00000042878 hs-mir-195 1537 1544  
UAGCAGCACAGAAUAUUGGC&AGAGCCCAGGGGGUCGGAGGAGGGGUCGCCACUGCUGCUGCUAC  
((((((((.....(((((&.....)))))))))))). -23.30

mir-195 ENSRNOG00000020565 2245 nt UTR 4 hits 1031 1497 1500 1704  
-----1-----2-----1-----

>ENSRNOG00000020565 hs-mir-195 1031 1038  
UAGCAGCACAGAAUAUUGGC&CCUCCUGAUCAGGAGGAGCCUACAGGGUGUCCUGGUGCUGCUGG  
((((((((.....(((((&.....)))))))))))). -23.50

>ENSRNOG00000020565 hs-mir-195 1497 1504  
UAGCAGCACAGAAUAUUGGC&GGGAGAACCUAGGGGGUCGGAGGAGGGGUCACCACUGCUGCUGC

((((((((.....&.....)))))))). -16.30  
>ENSRNOG00000020565 hs-mir-195 1500 1507  
UAGCAGCACAGAAUAUUGGC&AGAACCUAGGGGGUCGGAGGAGGGGUCACCACUGCUGCUAC  
((((((((.....(((&.....)))))))). -20.60  
>ENSRNOG00000020565 hs-mir-195 1704 1711  
UAGCAGCACAGAAUAUUGGC&GCGGCAGGGGCCGGUGGGCUACCCGCCCCACUCGUGCUGCUGG  
((((((((.....(((&.....)))))))). -22.50

miRNA: mir-196  
Human predicted target: ENSG00000015171  
Mouse predicted target: ENSMUSG00000021156  
Rat predicted target: ENSRNOG00000014670  
Hs Gene description: ADENOVIRUS 5 E1A-BINDING PROTEIN (BS69 PROTEIN).  
[Source:SWISSPROT;Acc:Q15326] NM\_006624  
mir-196 ENSG00000015171 2000 nt UTR 2 hits 406 791

-----1-----1-----  
-----  
>ENSG00000015171 hs-mir-196 406 413  
UAGGUAGUUUCAUGUUGUUGGG&GUAAGAACUACAGAACUGUUUCAGAAAUAAAACAUACUACCUU  
.((((((((.....(((((&.....)))))))). -15.60  
>ENSG00000015171 hs-mir-196 791 798  
UAGGUAGUUUCAUGUUGUUGGG&UUGUAACAAAUAACAACAAAACAAAGCCAAAACUACCUU  
.((((((((.....(((((&.....)))))))). -18.36  
mir-196 ENSMUSG00000021156 4018 nt UTR 2 hits 371 748

-----1-----1-----  
-----  
>ENSMUSG00000021156 hs-mir-196 371 378  
UAGGUAGUUUCAUGUUGUUGGG&CGGAGCUGAAUGUAAGAGCGGAUGCUUCAGAACAGACUACCUGG  
((((((((.....(((((&.....)))))))). -17.60  
>ENSMUSG00000021156 hs-mir-196 748 755  
UAGGUAGUUUCAUGUUGUUGGG&AAUCAGCAGCAAAAACAAAACAAAAGCCAAAACUACCUGU  
((((((((.....(((((&.....)))))))). -22.90  
mir-196 ENSRNOG00000014670 2000 nt UTR 2 hits 382 764

-----1-----1-----  
-----  
>ENSRNOG00000014670 hs-mir-196 382 389  
UAGGUAGUUUCAUGUUGUUGGG&UGAAUGUAAGAGCAGCAGAUGCUUCAGAAGAACAGACUACCUGG  
((((((((.....(((((&.....)))))))). -20.97  
>ENSRNOG00000014670 hs-mir-196 764 771  
UAGGUAGUUUCAUGUUGUUGGG&AAUCAGCAGCAAAAACAAAACAAAAGCCAAAACUACCUGU  
((((((((.....(((((&.....)))))))). -22.90

miRNA: mir-196  
Human predicted target: ENSG00000122592  
Mouse predicted target: ENSMUSG00000038236

Rat predicted target: ENSRNOG00000006544  
Hs Gene description: HOMEBOX PROTEIN HOX-A7 (HOX-1A) (HOX 1.1).  
[Source:SWISSPROT;Acc:P31268] NM\_006896

mir-196 ENSG00000122592 2238 nt UTR 4 hits 302 339 454 472  
-----11-----2-----

>ENSG00000122592 hs-mir-196 302 309  
UAGGUAGUUUCAUGUUGUUGGG&CAGGCCAGCCGGCCUGCUCUGGCGCGUCCAAAAUACUACCUAG  
((((((((((...(((.(.(((.(.((&.....)))))))).)))))). -19.60

>ENSG00000122592 hs-mir-196 339 346  
UAGGUAGUUUCAUGUUGUUGGG&UACCUAGCACAGGCCUCUGCUCGAGGCACCCCAAACUACCUAU  
((((((((((...(((.(.(((((((&..)))))))).)))))). -22.25

>ENSG00000122592 hs-mir-196 454 461  
UAGGUAGUUUCAUGUUGUUGGG&CACCCUCCCAGACCCGCAAGAAAGUGAAUCUCACUACUACCUAC  
((((((((((...(((.(.((((&.....)))))))).)))))). -22.31

>ENSG00000122592 hs-mir-196 472 479  
UAGGUAGUUUCAUGUUGUUGGG&AGAAAGUGAAUCUCACUACUACCUACUCCCUAAAACUACCUAU  
((((((((((...(((.(.((((&.....)))))))).)))))). -18.89

mir-196 ENSMUSG00000038236 2094 nt UTR 4 hits 310 347 479 500  
-----11-----2-----

>ENSMUSG00000038236 hs-mir-196 310 317  
UAGGUAGUUUCAUGUUGUUGGG&CCUGGGCCAGUGUUGUGCGCAGGCACAGCCAAAAUACUACCUAG  
((((((((((...(((.(.(((.(.((&.....)))))))).)))))). -18.90

>ENSMUSG00000038236 hs-mir-196 347 354  
UAGGUAGUUUCAUGUUGUUGGG&UACCUAGCACAGGCCUCUUGAGAGGCACUCCCAAACUACCUAU  
((((((((((...(((.(.(((((((&..)))))))).)))))). -22.25

>ENSMUSG00000038236 hs-mir-196 479 486  
UAGGUAGUUUCAUGUUGUUGGG&ACACACCCGGCCAAUACCUGCAAACCAUGAUCAAUACUACCUAC  
((((((((((...(((.(.(((((((&.....)))))))).)))))). -23.69

>ENSMUSG00000038236 hs-mir-196 500 507  
UAGGUAGUUUCAUGUUGUUGGG&AAACCAUGAUCAAUACUACCUACUACUAGCCCUAAACUACCUAU  
((((((((((...(((.(.(((((((&.....)))))))).)))))). -20.40

mir-196 ENSRNOG00000006544 3037 nt UTR 7 hits 184 221 314 332 1117  
1135 2425  
-----11---11-----11-----

>ENSRNOG00000006544 hs-mir-196 184 191  
UAGGUAGUUUCAUGUUGUUGGG&CCUGGGCCAGUGUUGUGCACAGGCACAGCUAAAAUACUACCUAG  
((((((((((...(((.(.(((.(.((&.....)))))))).)))))). -19.70

>ENSRNOG00000006544 hs-mir-196 221 228  
UAGGUAGUUUCAUGUUGUUGGG&UACCUAGCACAGGCCUCUUGAGAGACCAUCCCAAACUACCUAU  
((((((((((...(((.(.(((((((&..)))))))).)))))). -22.25

>ENSRNOG00000006544 hs-mir-196 314 321  
UAGGUAGUUUCAUGUUGUUGGG&CACCUGCUCCCCGUACCUGCCAACACUGAUCAGUACUACCUAC  
((((((((((...(((.(.(((((((&.....)))))))).)))))). -25.10

>ENSRNOG00000006544 hs-mir-196 332 339  
UAGGUAGUUUCAUGUUGUUGGG&UGCCAACACUGAUCAGUACUACCUACUAGCCCUAAACUACCUAU

```

((((((((((...((((&.....))))))....)))))))). -23.00
>ENSRNOG00000006544 hs-mir-196 1117 1124
UAGGUAGUUUCAUGUUGUUGGG&CACCUGCUCGCCCGUACCUGCCAACACUGAUCAGUACUACCUAC
((((((((((...((((&.....))))))....)))))))). -25.10
>ENSRNOG00000006544 hs-mir-196 1135 1142
UAGGUAGUUUCAUGUUGUUGGG&UGCCAACACUGAUCAGUACUACCUACUAGCCCUA AACUACCUAU
((((((((((...((((&.....))))))....)))))))). -23.00
>ENSRNOG00000006544 hs-mir-196 2425 2432
UAGGUAGUUUCAUGUUGUUGGG&UCCUCUAAAAGAUAGACUGAGCUCUAAAAGGGUACUACCUAC
((((((((((...((((&.....))))))....)))))))). -17.92

```

miRNA: mir-196

Human predicted target: ENSG00000135999  
 Mouse predicted target: ENSMUSG00000026763  
 Rat predicted target: ENSRNOG00000004790  
 Hs Gene description: NM\_015630

```

mir-196 ENSG00000135999 3190 nt UTR 3 hits 174 1367 1776
-----1-----1-----1-----1-----1-----

```

```

>ENSG00000135999 hs-mir-196 174 181
UAGGUAGUUUCAUGUUGUUGGG&AUUAUUGAUGUAUAUUUUGUAAAAUUGGGAAAUCACUACCUU
.((((((((((...((((&.....))))))....)))))))). -13.49

```

```

>ENSG00000135999 hs-mir-196 1367 1374
UAGGUAGUUUCAUGUUGUUGGG&GUGGGCUCUAUUGGGUUUCAGAUAAUCCAUAUAAACUACCUU
.((((((((((...((((&.....))))))....)))))))). -20.10

```

```

>ENSG00000135999 hs-mir-196 1776 1783
UAGGUAGUUUCAUGUUGUUGGG&UGUGACCUGAUAGGAUCCAUGCUCGUUUUCUGCCAUAUCUACCUC
.((((((((((...((((&.....))))))....)))))))). -18.49

```

```

mir-196 ENSMUSG00000026763 2406 nt UTR 3 hits 175 1357 1762
-----1-----1-----1-----1-----1-----

```

```

>ENSMUSG00000026763 hs-mir-196 175 182
UAGGUAGUUUCAUGUUGUUGGG&AUUAUUGAUGUAUAUUUUGUAAAAUUGGGAAAUCACUACCUU
.((((((((((...((((&.....))))))....)))))))). -13.49

```

```

>ENSMUSG00000026763 hs-mir-196 1357 1364
UAGGUAGUUUCAUGUUGUUGGG&CUGGGCUCUCCAUAUUGGGUUUCAGAUAAUCCAUAUAAACUACCUU
.((((((((((...((((&.....))))))....)))))))). -20.10

```

```

>ENSMUSG00000026763 hs-mir-196 1762 1769
UAGGUAGUUUCAUGUUGUUGGG&UGUGACCUGAUAGGAUCCAUGCUCGUUUUUGCCAUAUCUACCUC
.((((((((((...((((&.....))))))....)))))))). -18.49

```

```

mir-196 ENSRNOG00000004790 3186 nt UTR 4 hits 173 1356 1763 2901
-----1-----1-----1-----1-----1-----

```

```

>ENSRNOG00000004790 hs-mir-196 173 180
UAGGUAGUUUCAUGUUGUUGGG&AUGUAUGAUGUAUAUUUUGUAAAAUUGGGAAAUCACUACCUU
.((((((((((...((((&.....))))))....)))))))). -14.00

```

```

>ENSRNOG00000004790 hs-mir-196 1356 1363

```

UAGGUAGUUUCAUGUUGUUGGG&CUGGGCUCGAUUGGGUUUCAGAUAAUCCAUAUAAACUACCUU  
.((((((((((.....(((((((&.....)))))))).)))))))). -20.10  
>ENSRNOG00000004790 hs-mir-196 1763 1770  
UAGGUAGUUUCAUGUUGUUGGG&UGUGACCUGAUAGGAUCCAUGCUCGUUUUUGCCAUAUACUACCUC  
.((((((((((.....(((((((&.....)))))))).)))))))). -18.49  
>ENSRNOG00000004790 hs-mir-196 2901 2908  
UAGGUAGUUUCAUGUUGUUGGG&GUCUCUCCCCCUUGGUAUGAAAGUCUCCUCUGGAACUACCUC  
.((((((((((.....(((((((&.....)))))))).)))))))). -21.61

miRNA: mir-196

Human predicted target: ENSG00000140028

Mouse predicted target: ENSMUSG00000001175

Rat predicted target: ENSRNOG00000004060

Hs Gene description: CALMODULIN. [Source:SWISSPROT;Acc:P02593] NM\_006888

mir-196 ENSG00000140028 2893 nt UTR 2 hits 237 2314

-----1-----

-----1-----

>ENSG00000140028 hs-mir-196 237 244  
UAGGUAGUUUCAUGUUGUUGGG&AAGCUACACAUCAGUUUUACAUAUAAAUAUACUUGUACUACCUU  
.((((((((((.....&.....)))))))).)))))))). -15.11  
>ENSG00000140028 hs-mir-196 2314 2321

UAGGUAGUUUCAUGUUGUUGGG&UGGACUCUUAUGUGGUCCUGCAGCGUAUCCUAAAAGACUACCUU  
.((((((((((.....(((((((&.....)))))))).)))))))). -22.00  
mir-196 ENSMUSG00000001175 2883 nt UTR 2 hits 234 1298

-----1-----1-----

-----1-----

>ENSMUSG00000001175 hs-mir-196 234 241  
UAGGUAGUUUCAUGUUGUUGGG&AGCCCCUACAUCAGUUUUACAGUAUAAAUAUACUCGUACUACCUU  
.((((((((((.....((.....&.....)))))))).)))))))). -18.07  
>ENSMUSG00000001175 hs-mir-196 1298 1305

UAGGUAGUUUCAUGUUGUUGGG&UCACUGUGUAUGGCAAAGCAGGCCAGACAAAGACACUACCUU  
.((((((((((.....(((((((&.....)))))))).)))))))). -20.30  
mir-196 ENSRNOG00000004060 5346 nt UTR 2 hits 243 1282

-----1-----1-----

-----1-----

>ENSRNOG00000004060 hs-mir-196 243 250  
UAGGUAGUUUCAUGUUGUUGGG&GCCCCUACAUGAGUUUUACAGUAUAAAUAUACUCGUACUACCUU  
.((((((((((.....(((((((&.....)))))))).)))))))). -21.09  
>ENSRNOG00000004060 hs-mir-196 1282 1289

UAGGUAGUUUCAUGUUGUUGGG&UCACUGUGUCUGGUGGAAGCAGGCCAGUCAAAAGACACUACCUU  
.((((((((((.....(((((((&.....)))))))).)))))))). -20.60

miRNA: mir-196

Human predicted target: ENSG00000148200

Mouse predicted target: ENSMUSG000000026752

Rat predicted target: ENSRNOG00000013232  
Hs Gene description: ORPHAN NUCLEAR RECEPTOR NR6A1 (GERM CELL NUCLEAR FACTOR) (GCNF) (RETINOID RECEPTOR-RELATED TESTIS SPECIFIC RECEPTOR) (RTR).

[Source:SWISSPROT;Acc:Q15406] NM\_033335

mir-196 ENSG00000148200 2000 nt UTR 3 hits 387 1358 1425

-----1-----1-----

>ENSG00000148200 hs-mir-196 387 394  
UAGGUAGUUUCAUGUUGUUGGG&CUAAGAUGACUAUUUCCAUAUAUGUUGACAAAGAUGACUACCUC  
.((((((((.....((((..(&.....))..))))..))))). -20.40

>ENSG00000148200 hs-mir-196 1358 1365  
UAGGUAGUUUCAUGUUGUUGGG&AGCCAGAAGCACCUGGAAGGGGAAGGGGGCUUUAACUACCUC  
.((((((((.....((((..(&.....))..))))..))))). -17.10

>ENSG00000148200 hs-mir-196 1425 1432  
UAGGUAGUUUCAUGUUGUUGGG&CCUCUGCAGACAUGGCCUGGACUCCUUGACCUCUCACUACCUGC  
((((((((.....((((((((..(&.....))..))))..))))..))))). -19.80

mir-196 ENSMUSG00000026752 6457 nt UTR 5 hits 370 1227 3826 4362  
6100

-----1-----1-----

-----1-----1-----

>ENSMUSG00000026752 hs-mir-196 370 377  
UAGGUAGUUUCAUGUUGUUGGG&ACUAGAUGAGUAUUUCCAUAUAUGUUGACAAAGACAACUACCUC  
.((((((((.....((((..(&.....))..))))..))))). -19.70

>ENSMUSG00000026752 hs-mir-196 1227 1234  
UAGGUAGUUUCAUGUUGUUGGG&GAGCCAGAAAGACCUAGAAAGGAAAGGGGCAUUAACUACCUC  
.((((((((.....((((..(&.....))..))))..))))). -20.90

>ENSMUSG00000026752 hs-mir-196 3826 3833  
UAGGUAGUUUCAUGUUGUUGGG&AUGUUUUUACUCAAAUUUCCAUGGGGGAAAAAAGACUACCUC  
.((((((((.....((((..(&.....))..))))..))))). -19.10

>ENSMUSG00000026752 hs-mir-196 4362 4369  
UAGGUAGUUUCAUGUUGUUGGG&CUGCUGGCAAGGGGUGGGCCCUGUUCUGUGAAUUGACUACCUGU  
((((((((.....((((..(&.....))..))))..))))). -21.60

>ENSMUSG00000026752 hs-mir-196 6100 6107  
UAGGUAGUUUCAUGUUGUUGGG&GAACACCCACUAGCCCAGCCAGGAUGCACCAAAACUACCUGU  
((((((((.....((((((((..(&.....))..))))..))))..))))). -26.10

mir-196 ENSRNOG00000013232 5506 nt UTR 5 hits 373 1222 2874 3411  
4192

-----1-----1-----

-----1-----1-----

>ENSRNOG00000013232 hs-mir-196 373 380  
UAGGUAGUUUCAUGUUGUUGGG&ACUAGGUGACUAUUUCCAUAUAUGUUGACAAAGACAACUACCUC  
.((((((((.....((((..(&.....))..))))..))))). -19.70

>ENSRNOG00000013232 hs-mir-196 1222 1229  
UAGGUAGUUUCAUGUUGUUGGG&GAGCCAGAAGCACCUGAAGGGGAAGGGGGCUUUAACUACCUC  
.((((((((.....((((..(&.....))..))))..))))). -17.40



>ENSRNOG00000013232 hs-mir-196 2874 2881  
UAGGUAGUUUCAUGUUGUUGGG&AUGUUUUUAUCAAGUUUCCAUGGGGGGAAAAAGACUACCUC  
.((((((((((..((..(((&.....))))))..))..)).....)))))))). -15.80  
>ENSRNOG00000013232 hs-mir-196 3411 3418  
UAGGUAGUUUCAUGUUGUUGGG&CUGCUGGCAAGAAGUGGGCCUGUUCUGUGAAUUGACUACCUGU  
((((((((((((((..((..(((&.....))))))..))..)).....)))))))). -21.60  
>ENSRNOG00000013232 hs-mir-196 4192 4199  
UAGGUAGUUUCAUGUUGUUGGG&GAGCCAGAAGCACCUAGAAGGGAAAGGGGCUUUAACUACCUC  
.((((((((((..((..(((&.....))))))..))..)).....)))))))). -17.40

miRNA: mir-199a

Human predicted target: ENSG00000103257

Mouse predicted target: ENSMUSG00000040010

Rat predicted target: ENSRNOG00000018824

Hs Gene description: LARGE NEUTRAL AMINO ACIDS TRANSPORTER SMALL SUBUNIT 1  
(L-TYPE AMINO ACID TRANSPORTER 1) (4F2 LIGHT CHAIN) (4F2 LC) (4F2LC) (CD98  
LIGHT CHAIN) (INTEGRAL MEMBRANE PROTEIN E16) (HLAT1).

[Source:SWISSPROT;Acc:Q01650] NM\_003486

mir-199a ENSG00000103257 4947 nt UTR 2 hits 2871 4225

-----1-----  
-----1-----

>ENSG00000103257 hs-mir-199a 2871 2878  
CCCAGUGUUCAGACUACCUGUUC&GACCUUCUUUAUUCUGUGUUAUUGGCUAACCUGUUACACUGGGC  
((((((((((..((..(((&.....))))))..))..)).....)))))))). -  
22.30

>ENSG00000103257 hs-mir-199a 4225 4232  
CCCAGUGUUCAGACUACCUGUUC&AGGAAGGAGAGAACUCACAGGCUGCCCCACCCCGACACUGGC  
.((((((((((((((..((..(((&.....))))))..))..)).....)))))))). -20.80  
mir-199a ENSMUSG00000040010 3891 nt UTR 2 hits 1710 2901

-----1-----  
-----1-----

>ENSMUSG00000040010 hs-mir-199a 1710 1717  
CCCAGUGUUCAGACUACCUGUUC&CCUGGCCCCUUUCAUUGGUCAGUGUCUGACCCACCACACUGGGU  
((((((((((((((..((..(((&.....))))))..))..)).....)))))))). -  
26.40

>ENSMUSG00000040010 hs-mir-199a 2901 2908  
CCCAGUGUUCAGACUACCUGUUC&CCUGGCCCCUUUCAUUGGUCAGUGUCUGACCCACCACACUGGGU  
((((((((((((((..((..(((&.....))))))..))..)).....)))))))). -  
26.40

mir-199a ENSRNOG00000018824 3455 nt UTR 2 hits 1276 3115  
-----1-----  
-----1-----

>ENSRNOG00000018824 hs-mir-199a 1276 1283  
CCCAGUGUUCAGACUACCUGUUC&UGCCUGGCCCUUUCAGUGGUCAGUGUCUCCACCACACUGGGU

((((((((((...(((...(((...(&.....)....)))).)))).)))). -  
21.60

>ENSRNOG00000018824 hs-mir-199a 3115 3122  
CCCAGUGUUCAGACUACCUGUUC&UCAGUGUCCAGUGCUGGGUACGGUGUGUUCCACCACACUGGGU  
((((((((((...(((...(((...(&.....)....)))).)))).)))). -  
23.30

miRNA: mir-199a

Human predicted target: ENSG00000133639

Mouse predicted target: ENSMUSG00000036478

Rat predicted target: ENSRNOG00000004284

Hs Gene description: BTG1 PROTEIN (B-CELL TRANSLOCATION GENE 1 PROTEIN).

[Source:SWISSPROT;Acc:P31607] NM\_001731

mir-199a ENSG00000133639 2957 nt UTR 2 hits 1039 1750

-----1-----1-----  
-----1-----

>ENSG00000133639 hs-mir-199a 1039 1046  
CCCAGUGUUCAGACUACCUGUUC&UAGAAGACAGGUUCUAUAAACUGAAUCUCUGUUGCACACUGGU  
((((((((((...(((...(((...(&.....)....)))).)))).)))). -24.53

>ENSG00000133639 hs-mir-199a 1750 1757  
CCCAGUGUUCAGACUACCUGUUC&AGUGGCCUUUUUUUGGUUAUUAUGUAAACAUGUUGACACUGGA  
((((((((((...(((...(((...(&.....)....)))).)))).)))). -18.20

mir-199a ENSMUSG00000036478 2982 nt UTR 3 hits 1073 1724 2323  
-----1-----1-----  
-----1-----

>ENSMUSG00000036478 hs-mir-199a 1073 1080  
CCCAGUGUUCAGACUACCUGUUC&GUCUUAGAUUUGUAAGCUGUGUGGAUGUCACUUGCACACUGGU  
((((((((((...(((...(((...(&.....)....)))).)))).)))). -19.90

>ENSMUSG00000036478 hs-mir-199a 1724 1731  
CCCAGUGUUCAGACUACCUGUUC&GGAUUGGGGGAGGGGCAGCAUGUGAAACAUGUGAACACUGGGA  
((((((((((...(((...(((...(&.....)....)))).)))).)))). -  
28.20

>ENSMUSG00000036478 hs-mir-199a 2323 2330  
CCCAGUGUUCAGACUACCUGUUC&UGGGAACUCCUUGGAAGCUGCCUGACUGGCUUUGAACACUGGA  
((((((((((...(((...(((...(&.....)....)))).)))).)))). -25.50

mir-199a ENSRNOG00000004284 2951 nt UTR 2 hits 1682 2265  
-----1-----1-----  
-----1-----

>ENSRNOG00000004284 hs-mir-199a 1682 1689  
CCCAGUGUUCAGACUACCUGUUC&GGGUUGGGGGAGGGGCAGCGUGUGUAAACAUGUUAACACUGGGU  
((((((((((...(((...(((...(&.....)....)))).)))).)))). -  
26.30

>ENSRNOG00000004284 hs-mir-199a 2265 2272  
CCCAGUGUUCAGACUACCUGUUC&AAGCUGCUUAACUGGUAAUAAUGGUAAGGCCUUGAACACUGGA  
((((((((((...(((...(((...(&.....)....)))).)))).)))). -25.40

miRNA: mir-199a

Human predicted target: ENSG00000135596

Mouse predicted target: ENSMUSG00000019823

Rat predicted target: ENSRNOG00000000307

Hs Gene description: CASL INTERACTING MOLECULE.

[Source:SWISSPROT;Acc:Q8TDZ2]

mir-199a ENSG00000135596 2000 nt UTR 2 hits 473 1562

-----1-----1-----

>ENSG00000135596 hs-mir-199a 473 480  
CCCAGUGUUCAGACUACCUGUUC&AGAGGUAGAAUGCACCUGCCCACAGCACCAGCCUACACUGGGG

((((((((.(.(.(((.(.(&.).)))))).)).....)))))))). -  
24.35

>ENSG00000135596 hs-mir-199a 1562 1569  
CCCAGUGUUCAGACUACCUGUUC&UCCCAUCCACUUCUCCAUUUAAGCCCAGGCUCACACACUGGA

.((((((.(.(.(((.(.(&.....)))))).)).....)))))))). -19.80  
mir-199a ENSMUSG00000019823 2140 nt UTR 2 hits 493 1541

-----1-----1-----

>ENSMUSG00000019823 hs-mir-199a 493 500  
CCCAGUGUUCAGACUACCUGUUC&AGAGGUAGACUGCACCUGCUACCAGCACCAGACCCACACUGGGU

((((((((.(.(.(((.(.(&.).)))))).)).....)))))))). -  
25.15

>ENSMUSG00000019823 hs-mir-199a 1541 1548  
CCCAGUGUUCAGACUACCUGUUC&UCCACCCCACAGCCCCCAUCAAGCCCAGGCUCACACACUGGA

.((((((.(.(.(((.(.(&.....)))))).)).....)))))))). -19.80  
mir-199a ENSRNOG00000000307 2000 nt UTR 2 hits 492 1563

-----1-----1-----

>ENSRNOG00000000307 hs-mir-199a 492 499  
CCCAGUGUUCAGACUACCUGUUC&ACAGGUAGACUGCGCCUGCCCCCAGCACCAGACCCACACUGGGU

((((((((.(.(.(((.(.(&)))))).)).....)))))))). -  
29.05

>ENSRNOG00000000307 hs-mir-199a 1563 1570  
CCCAGUGUUCAGACUACCUGUUC&CCCCACCCACAUCCCCCAUGAAGCCCAGGCUCACACACUGGA

.((((((.(.(.(((.(.(&.....)))))).)).....)))))))). -19.80

miRNA: mir-199a

Human predicted target: ENSG00000137332

Mouse predicted target: ENSMUSG00000003534

Rat predicted target: ENSRNOG00000000830

Hs Gene description: EPITHELIAL DISCOIDIN DOMAIN RECEPTOR 1 PRECURSOR (EC 2.7.1.112) (TYROSINE-PROTEIN KINASE CAK) (CELL ADHESION KINASE) (TYROSINE KINASE DDR) (DISCOIDIN RECEPTOR TYROSINE KINASE) (TRK E) (PROTEIN-TYROSINE KINASE RTK 6) (CD167A ANTIGEN). [Source:SWISSPROT;Acc:Q08345]

mir-199a ENSG00000137332 2000 nt UTR 3 hits 321 416 539

-----1---1---1-----  
-----

>ENSG00000137332 hs-mir-199a 321 328  
CCCAGUGUUCAGACUACCUGUUC&UCCCUUGGGGAAGGGUGGGGAGAAUAUAGGAUAGACACUGGA  
.((((((((((..(((((&.....)))))).....))))))..)))))))). -23.30

>ENSG00000137332 hs-mir-199a 416 423  
CCCAGUGUUCAGACUACCUGUUC&GGUGGUGCGCCCCAGCUUCUCUCUCCUGUCACACACUGGA  
.((((((((((..(((((&.....)))))).....))))))..)))))))). -21.69

>ENSG00000137332 hs-mir-199a 539 546  
CCCAGUGUUCAGACUACCUGUUC&CUCAGCUUGGGCUUCUCCUCCUCCAUCACCUGAAACACUGGA  
.((((((((((..(((((&.....)))))).....))))))..)))))))). -20.50

mir-199a ENSMUSG00000003534 2797 nt UTR 8 hits 278 302 351 455 946  
970 1019 1123

-----11-1---1-----11-1---1-----  
-----

>ENSMUSG00000003534 hs-mir-199a 278 285  
CCCAGUGUUCAGACUACCUGUUC&CCCUUGGGGAAGAACGGGGGCAAUUGCUGGGCGUACACUGGA  
.((((((((((..(((((&.....)))))).....))))))..)))))))). -26.50

>ENSMUSG00000003534 hs-mir-199a 302 309  
CCCAGUGUUCAGACUACCUGUUC&AUGCUGGGCGUACACUGGACAAGGCCACUGGACAACACUGGU  
.((((((((((..(((((&.....)))))).....))))))..)))))))). -22.70

>ENSMUSG00000003534 hs-mir-199a 351 358  
CCCAGUGUUCAGACUACCUGUUC&GAGGUGACGGUGCCCCCAGCUUUCUUCUUGUCACACACUGGA  
.((((((((((..(((((&.....)))))).....))))))..)))))))). -19.36

>ENSMUSG00000003534 hs-mir-199a 455 462  
CCCAGUGUUCAGACUACCUGUUC&CUCAGCCCUGGCUUCCUUCUGUUCGCCCCUGACACACUGGA  
.((((((((((..(((((&.....)))))).....))))))..)))))))). -20.50

>ENSMUSG00000003534 hs-mir-199a 946 953  
CCCAGUGUUCAGACUACCUGUUC&CCCUUGGGGAAGAACGGGGGCAAUUGCUGGGCGUACACUGGA  
.((((((((((..(((((&.....)))))).....))))))..)))))))). -26.50

>ENSMUSG00000003534 hs-mir-199a 970 977  
CCCAGUGUUCAGACUACCUGUUC&AUGCUGGGCGUACACUGGACAAGGCCACUGGACAACACUGGU  
.((((((((((..(((((&.....)))))).....))))))..)))))))). -22.70

>ENSMUSG00000003534 hs-mir-199a 1019 1026  
CCCAGUGUUCAGACUACCUGUUC&GAGGUGACGGUGCCCCCAGCUUUCUUCUUGUCACACACUGGA  
.((((((((((..(((((&.....)))))).....))))))..)))))))). -19.36

>ENSMUSG00000003534 hs-mir-199a 1123 1130  
CCCAGUGUUCAGACUACCUGUUC&CUCAGCCCUGGCUUCCUUCUGUUCGCCCCUGACACACUGGA  
.((((((((((..(((((&.....)))))).....))))))..)))))))). -20.50

mir-199a ENSRNOG00000000830 2003 nt UTR 4 hits 307 331 379 483  
-----11-1---1-----  
-----

>ENSRNOG00000000830 hs-mir-199a 307 314  
CCCAGUGUUCAGACUACCUGUUC&UCCCUAGGGAAAGACAGGGGCGAAUUGCUGGGCACACACUGGA  
.((((((((((..(((((&.....)))))).....))))))..)))))))). -24.90

>ENSRNOG00000000830 hs-mir-199a 331 338  
CCCAGUGUUCAGACUACCUGUUC&AUGCUGGGCACACACUGGACAAGGCCACUGGACAACACUGGU  
.((((((((((..(((((&.....)))))).....))))))..)))))))). -22.70

>ENSRNOG00000000830 hs-mir-199a 379 386  
CCCAGUGUUCAGACUACCUGUUC&GGAGGUGACGGUACCCCCAGCUUCUUCUUGUCACACACUGGA  
.((((((((((...(((((((.(.(&.....)))))))).)))))))). -19.72  
>ENSRNOG00000000830 hs-mir-199a 483 490  
CCCAGUGUUCAGACUACCUGUUC&AGCCCUGGCUUCCUUCUGCACCCUCCGCCUCUGACACACUGGA  
.(((((((((((.....&.....)))))))).)))))))). -21.60

miRNA: mir-199a  
Human predicted target: ENSG00000159214  
Mouse predicted target: ENSMUSG00000050868  
Rat predicted target: ENSRNOG00000019586  
Hs Gene description: NM\_152499

mir-199a ENSG00000159214 2000 nt UTR 2 hits 926 1214  
-----1-----1-----  
-----

>ENSG00000159214 hs-mir-199a 926 933  
CCCAGUGUUCAGACUACCUGUUC&GAUAAACAGGGCUGGGCAGCACAGCCUGACAAGUAACACUGGGC  
(((((((((((...(((((((.(.(&.....)))))))).)))))))). -  
26.05

>ENSG00000159214 hs-mir-199a 1214 1221  
CCCAGUGUUCAGACUACCUGUUC&CCCAGCUGCUAUCUUGGCAUCCAAAGGACAUGUAAACACUGGGG  
(((((((((((...(((((((.(.(&.....)))))))).)))))))). -  
24.20

mir-199a ENSMUSG00000050868 3121 nt UTR 4 hits 634 1070 1267 1491  
-----1-----1-----1-----1-----  
-----

>ENSMUSG00000050868 hs-mir-199a 634 641  
CCCAGUGUUCAGACUACCUGUUC&UAAAACCUACGGACUUUAAAACCCUAGUUCUGCACACACUGGGC  
(((((((((((.(.(((((((...(((((((.(.(&.....)))))))).)))))))). -  
22.70

>ENSMUSG00000050868 hs-mir-199a 1070 1077  
CCCAGUGUUCAGACUACCUGUUC&AGCAGCCAAGUGAGGUGCAGGCAGGCCUGGAAGACACACUGGA  
.(((((((((((.(.(((((((...(((((((.(.(&.....)))))))).)))))))). -26.30  
>ENSMUSG00000050868 hs-mir-199a 1267 1274  
CCCAGUGUUCAGACUACCUGUUC&CUGGGCAGAGGCUAGGGUCUGUUCUGGGGUCAGGAACACUGGU  
.(((((((((((.(.(((((((.(.(((((((&.....)))))))).)))))))). -27.01

>ENSMUSG00000050868 hs-mir-199a 1491 1498  
CCCAGUGUUCAGACUACCUGUUC&CCCAGCUGCUGUCUUGGCAUCCAAAGGAUGUGUAAACACUGGGG  
(((((((((((.(.(((((((.(.(((((((...&.....)))))))).)))))))). -  
24.90

mir-199a ENSRNOG00000019586 3121 nt UTR 2 hits 2035 2282  
-----1-----1-----

>ENSRNOG00000019586 hs-mir-199a 2035 2042  
CCCAGUGUUCAGACUACCUGUUC&UGGGCAAGAGGCUAGGGUCUGUUCUGGGGUCAGGAACACUGGU  
.(((((((((((.(.(((((((.(.(((((((...&.....)))))))).)))))))). -25.60

>ENSRNOG00000019586 hs-mir-199a 2282 2289

CCCAGUGUUCAGACUACCUGUUC&CCCAGCUGCUGUCUUGGCAUCCAAAGGAUGUGUAAACACUGGGG  
(((((((((((((...&.....)))))))).)))). -  
24.90

miRNA: mir-199a

Human predicted target: ENSG00000159388

Mouse predicted target: ENSMUSG00000041551

Rat predicted target: ENSRNOG00000003300

Hs Gene description: BTG2 PROTEIN (NGF-INDUCIBLE ANTI-PROLIFERATIVE  
PROTEIN PC3). [Source:SWISSPROT;Acc:P78543] NM\_006763

mir-199a ENSG00000159388 4164 nt UTR 2 hits 1412 3135

-----1-----  
-----1-----  
-----

>ENSG00000159388 hs-mir-199a 1412 1419  
CCCAGUGUUCAGACUACCUGUUC&AUAUACUGUUGUGGGUUGGAGAAAAGUGGAAAGCUACACUGGGA  
(((((((((((((...&.....)))))))).)))). -  
22.20

>ENSG00000159388 hs-mir-199a 3135 3142  
CCCAGUGUUCAGACUACCUGUUC&CAGGUUAGCUAGAGAGCAGCUACUUCUGACAGCAAACACUGGA  
.(((((((((((((...&.....)))))))).)))). -24.40  
mir-199a ENSMUSG00000041551 4042 nt UTR 2 hits 1379 3300

-----1-----  
-----1-----  
-----

>ENSMUSG00000041551 hs-mir-199a 1379 1386  
CCCAGUGUUCAGACUACCUGUUC&AAUAUUUACUGUUCUGGGUUGGAGAAAUAUGGAAACACUGGGA  
(((((((((((((...&.....)))))))).)))). -  
20.30

>ENSMUSG00000041551 hs-mir-199a 3300 3307  
CCCAGUGUUCAGACUACCUGUUC&AGCUCCCACUAAAGCUACAGGUUCAUUUUGACCCACACUGGA  
.(((((((((((((...&.....)))))))).)))). -25.60  
mir-199a ENSRNOG00000003300 3981 nt UTR 2 hits 1343 3101

-----1-----  
-----1-----  
-----

>ENSRNOG00000003300 hs-mir-199a 1343 1350  
CCCAGUGUUCAGACUACCUGUUC&AAUAUUUACUGUUCUGGGUUGGAGAAAUCGGGAAACACUGGGA  
(((((((((((((...&.....)))))))).)))). -  
21.80

>ENSRNOG00000003300 hs-mir-199a 3101 3108  
CCCAGUGUUCAGACUACCUGUUC&UUGUUAGACAAGAGCAGUUGGGUUCAGGGUCUGUACACUGGGG  
(((((((((((((...&.....)))))))).)))). -  
32.92

miRNA: mir-199a

Human predicted target: ENSG00000166747  
Mouse predicted target: ENSMUSG00000031731  
Rat predicted target: ENSRNOG00000015390

Hs Gene description: ADAPTER-RELATED PROTEIN COMPLEX 1 GAMMA 1 SUBUNIT (GAMMA-ADAPTIN) (ADAPTOR PROTEIN COMPLEX AP-1 GAMMA-1 SUBUNIT) (GOLGI ADAPTOR HA1/AP1 ADAPTIN GAMMA-1 SUBUNIT) (CLATHRIN ASSEMBLY PROTEIN COMPLEX 1 GAMMA-1 LARGE CHAIN). [Source:SWISSPROT;Acc:O43747] NM\_001128  
mir-199a ENSG00000166747 4039 nt UTR 2 hits 667 1141

-----1-----1-----  
-----

>ENSG00000166747 hs-mir-199a 667 674  
CCCAGUGUUCAGACUACCUGUUC&CAAGAACUGGUCAGACCUUGCGAGUUUUAUUUGUAAACACUGGA  
.((((((((((((((((((((((((&...)))))).)))).))))).)))). -21.63  
>ENSG00000166747 hs-mir-199a 1141 1148  
CCCAGUGUUCAGACUACCUGUUC&UCCUUCUUAACUGGAACAUAUUGUGUUGUAUCUGUAAACACUGGC  
.((((((((((((((((((((((((&.....)))))).)))).))))).)))). -23.10  
mir-199a ENSMUSG00000031731 2000 nt UTR 2 hits 648 1126

-----1-----1-----  
-----

>ENSMUSG00000031731 hs-mir-199a 648 655  
CCCAGUGUUCAGACUACCUGUUC&AAAAAGCUGGUUAGACCUUGAGAGGUUGUUUGUAAACACUGGA  
.((((((((((((((((((((((((&.....)))))).)))).))))).)))). -27.20  
>ENSMUSG00000031731 hs-mir-199a 1126 1133  
CCCAGUGUUCAGACUACCUGUUC&CUUCUUCUUAACUGGAACAUAUUGUGUUGUUAUCUGUAAACACUGGC  
.((((((((((((((((((((((((&.....)))))).)))).))))).)))). -23.10  
mir-199a ENSRNOG00000015390 3310 nt UTR 2 hits 619 1095

-----1-----1-----  
-----

>ENSRNOG00000015390 hs-mir-199a 619 626  
CCCAGUGUUCAGACUACCUGUUC&AAAAAUCUGGUCAGACCUUGAGAGGUGGUUGUUUGUAAACACUGGA  
.((((((((((((((((((((((((&.....)))))).)))).))))).)))). -31.40  
>ENSRNOG00000015390 hs-mir-199a 1095 1102  
CCCAGUGUUCAGACUACCUGUUC&CUUCUUCUUAACUGGAACAUAUUGUGUUGUUAUCUGUAAACACUGGC  
.((((((((((((((((((((((((&.....)))))).)))).))))).)))). -23.10

miRNA: mir-199b  
Human predicted target: ENSG00000137332  
Mouse predicted target: ENSMUSG00000003534  
Rat predicted target: ENSRNOG00000000830

Hs Gene description: EPITHELIAL DISCOIDIN DOMAIN RECEPTOR 1 PRECURSOR (EC 2.7.1.112) (TYROSINE-PROTEIN KINASE CAK) (CELL ADHESION KINASE) (TYROSINE KINASE DDR) (DISCOIDIN RECEPTOR TYROSINE KINASE) (TRK E) (PROTEIN-TYROSINE KINASE RTK 6) (CD167A ANTIGEN). [Source:SWISSPROT;Acc:Q08345]  
mir-199b ENSG00000137332 2000 nt UTR 3 hits 321 416 539

-----1-----1-----1-----  
-----

>ENSG00000137332 hs-mir-199b 321 328  
CCCAGUGUUUAGACUAUCUGUUC&UCCCUUGGGGAAGGGUGGGGAGAAUAUAGGAUAGACACUGGA  
.((((((((((...(((((((&.....)))))).)).....)))))))). -25.40  
>ENSG00000137332 hs-mir-199b 416 423  
CCCAGUGUUUAGACUAUCUGUUC&GGUGGCUGCGCCCCAGCUUCUCUCUCCUGUCACACACUGGA  
.((((((((((...(((.....&.....)))))).)).....)))))). -18.20  
>ENSG00000137332 hs-mir-199b 539 546  
CCCAGUGUUUAGACUAUCUGUUC&CUCAGCUUGGGCUUCUCCUCCUCCAUCACCUGAAACACUGGA  
.((((((((((...(((...&..)))).)).....)))))))). -18.15  
mir-199b ENSMUSG00000003534 2797 nt UTR 8 hits 278 302 351 455 946  
970 1019 1123

-----11-1---1-----11-1---1-----  
-----

>ENSMUSG00000003534 hs-mir-199b 278 285  
CCCAGUGUUUAGACUAUCUGUUC&CCCUUGGGGAAGAACGGGGGCAAUUGCUGGGCGUACACUGGA  
.((((((((((...(((((((&.....)))))))).)).....)))))))). -21.90  
>ENSMUSG00000003534 hs-mir-199b 302 309  
CCCAGUGUUUAGACUAUCUGUUC&AUGCUGGGCGUACACUGGACAAGGCCACUGGACAACACUGGU  
.((((((((((...(((((((&.....)))))).)).....)))))))). -18.60  
>ENSMUSG00000003534 hs-mir-199b 351 358  
CCCAGUGUUUAGACUAUCUGUUC&GAGGUGACGGUGCCCCCAGCUUUCUUCUUGUCACACACUGGA  
.((((((((((...(((...&.....)))))).)).....)))))))). -18.80  
>ENSMUSG00000003534 hs-mir-199b 455 462  
CCCAGUGUUUAGACUAUCUGUUC&CUCAGCCCUGGCUUCCUUCUGUUCGCCCCUGACACACUGGA  
.((((((((((...(((.....&.....)))))).)).....)))))))). -18.30  
>ENSMUSG00000003534 hs-mir-199b 946 953  
CCCAGUGUUUAGACUAUCUGUUC&CCCUUGGGGAAGAACGGGGGCAAUUGCUGGGCGUACACUGGA  
.((((((((((...(((((((&.....)))))))).)).....)))))))). -21.90  
>ENSMUSG00000003534 hs-mir-199b 970 977  
CCCAGUGUUUAGACUAUCUGUUC&AUGCUGGGCGUACACUGGACAAGGCCACUGGACAACACUGGU  
.((((((((((...(((((((&.....)))))).)).....)))))))). -18.60  
>ENSMUSG00000003534 hs-mir-199b 1019 1026  
CCCAGUGUUUAGACUAUCUGUUC&GAGGUGACGGUGCCCCCAGCUUUCUUCUUGUCACACACUGGA  
.((((((((((...(((...&.....)))))).)).....)))))))). -18.80  
>ENSMUSG00000003534 hs-mir-199b 1123 1130  
CCCAGUGUUUAGACUAUCUGUUC&CUCAGCCCUGGCUUCCUUCUGUUCGCCCCUGACACACUGGA  
.((((((((((...(((.....&.....)))))).)).....)))))))). -18.30  
mir-199b ENSRNOG00000000830 2003 nt UTR 4 hits 307 331 379 483

-----11-1---1-----  
-----

>ENSRNOG00000000830 hs-mir-199b 307 314  
CCCAGUGUUUAGACUAUCUGUUC&UCCCUAGGGAAAGACAGGGGCGAAUUGCUGGGCACACACUGGA  
.((((((((((...(((((((&.....)))))))).)).....)))))))). -20.30  
>ENSRNOG00000000830 hs-mir-199b 331 338  
CCCAGUGUUUAGACUAUCUGUUC&AUGCUGGGCACACACUGGACAAGGCCACUGGACAACACUGGU  
.((((((((((...(((((((&.....)))))).)).....)))))))). -18.60  
>ENSRNOG00000000830 hs-mir-199b 379 386  
CCCAGUGUUUAGACUAUCUGUUC&GGAGGUGACGGUACCCCCAGCUUCUUCUUGUCACACACUGGA



.(((((((...(((...(((((&.....)))))).....)))))). -18.85  
>ENSRNOG00000000830 hs-mir-199b 483 490  
CCCAGUGUUUAGACUAUCUGUUC&AGCCUGGCUUCCUUCUGCACCCUCCGCCUCUGACACACUGGA  
.(((((((...(((...(((((&.....)))))).....)))))). -19.40

miRNA: mir-199b

Human predicted target: ENSG00000159214

Mouse predicted target: ENSMUSG00000050868

Rat predicted target: ENSRNOG00000019586

Hs Gene description: NM\_152499

mir-199b ENSG00000159214 2000 nt UTR 2 hits 926 1214

-----1-----1-----  
-----

>ENSG00000159214 hs-mir-199b 926 933  
CCCAGUGUUUAGACUAUCUGUUC&GAUAAACAGGGCUGGGCAGCACAGCCUGACAAGUAACACUGGGC  
(((((((((((...(((...(((((&.....)))))).....)))))). -  
23.70

>ENSG00000159214 hs-mir-199b 1214 1221  
CCCAGUGUUUAGACUAUCUGUUC&CCCAGCUGCUAUCUUGGCAUCCAAAGGACAUGUAAACACUGGGG  
(((((((((((...(((...(((((&.....)))))).....)))))). -  
24.40

mir-199b ENSMUSG00000050868 3121 nt UTR 4 hits 634 1070 1267 1491  
-----1-----1-----1-----1-----

>ENSMUSG00000050868 hs-mir-199b 634 641  
CCCAGUGUUUAGACUAUCUGUUC&UAAAACCUACGGACUUUAAAACCCUAGUUCUGCACACACUGGGC  
(((((((((((...(((...(((((&.....)))))).....)))))). -  
22.80

>ENSMUSG00000050868 hs-mir-199b 1070 1077  
CCCAGUGUUUAGACUAUCUGUUC&AGCAGCCAAGUGAGGUGCAGGCAGGCCUGGAAGACACACUGGA  
.(((((((((((...(((...(((((&.....)))))).....)))))). -22.60

>ENSMUSG00000050868 hs-mir-199b 1267 1274  
CCCAGUGUUUAGACUAUCUGUUC&CUGGGCAGAGGCUAGGGUCUGUUCUGGGGUCAGGAACACUGGU  
.(((((((((((...(((...(((((&.....)))))).....)))))). -27.11

>ENSMUSG00000050868 hs-mir-199b 1491 1498  
CCCAGUGUUUAGACUAUCUGUUC&CCCAGCUGCUGUCUUGGCAUCCAAAGGAUGUGUAAACACUGGGG  
(((((((((((...(((...(((((&.....)))))).....)))))). -  
28.70

mir-199b ENSRNOG00000019586 3121 nt UTR 2 hits 2035 2282

-----1-----1-----

>ENSRNOG00000019586 hs-mir-199b 2035 2042  
CCCAGUGUUUAGACUAUCUGUUC&UGGGCAAGAGGCUAGGGUCUGUUCUGGGGUCAGGAACACUGGU  
.(((((((((((...(((...(((((&.....)))))).....)))))). -23.31

>ENSRNOG00000019586 hs-mir-199b 2282 2289  
CCCAGUGUUUAGACUAUCUGUUC&CCCAGCUGCUGUCUUGGCAUCCAAAGGAUGUGUAAACACUGGGG

(((((((((((((((((.....&.....)))))))).)))))))). -  
28.70

miRNA: mir-199b

Human predicted target: ENSG00000159388

Mouse predicted target: ENSMUSG00000041551

Rat predicted target: ENSRNOG00000003300

Hs Gene description: BTG2 PROTEIN (NGF-INDUCIBLE ANTI-PROLIFERATIVE  
PROTEIN PC3). [Source:SWISSPROT;Acc:P78543] NM\_006763

mir-199b ENSG00000159388 4164 nt UTR 2 hits 1412 3135

-----1-----  
-----1-----  
-----

>ENSG00000159388 hs-mir-199b 1412 1419  
CCCAGUGUUUAGACUAUCUGUUC&AUAUACUGUUGUGGGUUGGAGAAAAGUGGAAAGCUACACUGGGA  
(((((((((((.....&.....)))))))).)))))))). -  
22.70

>ENSG00000159388 hs-mir-199b 3135 3142  
CCCAGUGUUUAGACUAUCUGUUC&CAGGUUAGCUAGAGAGCAGCUACUUCUGACAGCAAACACUGGA  
(((((((((((.....&.....)))))))).)))))))). -22.70  
mir-199b ENSMUSG00000041551 4042 nt UTR 2 hits 1379 3300

-----1-----  
-----1-----  
-----

>ENSMUSG00000041551 hs-mir-199b 1379 1386  
CCCAGUGUUUAGACUAUCUGUUC&AAUAUUUACUGUUCUGGGUUGGAGAAAUAUGGAAACACUGGGA  
(((((((((((.....&.....)))))))).)))))))). -  
23.30

>ENSMUSG00000041551 hs-mir-199b 3300 3307  
CCCAGUGUUUAGACUAUCUGUUC&AGCUCCCACUAAAGCUACAGGUUCAUUUUGACCCACACUGGA  
(((((((((((.....&.....)))))))).)))))))). -20.80  
mir-199b ENSRNOG00000003300 3981 nt UTR 2 hits 1343 3101

-----1-----  
-----1-----  
-----

>ENSRNOG00000003300 hs-mir-199b 1343 1350  
CCCAGUGUUUAGACUAUCUGUUC&AAUAUUUACUGUUCUGGGUUGGAGAAAUCGGGAAACACUGGGA  
(((((((((((.....&.....)))))))).)))))))). -  
22.70

>ENSRNOG00000003300 hs-mir-199b 3101 3108  
CCCAGUGUUUAGACUAUCUGUUC&UUGUUAGACAAGAGCAGUUGGGUUCAGGGUCUGUACACUGGGG  
(((((((((((.....&.....)))))))).)))))))). -  
31.92

miRNA: mir-199b

Human predicted target: ENSG00000166747

Mouse predicted target: ENSMUSG00000031731  
Rat predicted target: ENSRNOG00000015390  
Hs Gene description: ADAPTER-RELATED PROTEIN COMPLEX 1 GAMMA 1 SUBUNIT (GAMMA-ADAPTIN) (ADAPTOR PROTEIN COMPLEX AP-1 GAMMA-1 SUBUNIT) (GOLGI ADAPTOR HA1/AP1 ADAPTIN GAMMA-1 SUBUNIT) (CLATHRIN ASSEMBLY PROTEIN COMPLEX 1 GAMMA-1 LARGE CHAIN). [Source:SWISSPROT;Acc:O43747] NM\_001128  
mir-199b ENSG00000166747 4039 nt UTR 2 hits 667 1141

-----1-----1-----  
-----  
-----

>ENSG00000166747 hs-mir-199b 667 674  
CCCAGUGUUUAGACUAUCUGUUC&CAAGAACUGGUCAGACCUUGCGAGUUUAUUUGUAAACACUGGA  
.((((((((((((((((((...(((&...)))))))))).....)))))))). -22.05  
>ENSG00000166747 hs-mir-199b 1141 1148  
CCCAGUGUUUAGACUAUCUGUUC&UCCUUCUAACUGGAACAUUUGUGUUGUAUCUGUAACACUGGC  
.((((((((((((((((((..(((&.....))))))..)).).....)))))))). -19.60  
mir-199b ENSMUSG00000031731 2000 nt UTR 2 hits 648 1126

-----1-----1-----  
-----

>ENSMUSG00000031731 hs-mir-199b 648 655  
CCCAGUGUUUAGACUAUCUGUUC&AAAAAGCUGGUUAGACCUUGAGAGGUUGUUUGUAAACACUGGA  
.((((((((((((((((((..(((&.....))))..)).).....)))))))). -23.60  
>ENSMUSG00000031731 hs-mir-199b 1126 1133  
CCCAGUGUUUAGACUAUCUGUUC&CUUCUUCUAACUGGAACAUUUGUGUUGUAUCUGUAACACUGGC  
.((((((((((((((((((..(((&.....))))..)).).....)))))))). -19.60  
mir-199b ENSRNOG00000015390 3310 nt UTR 2 hits 619 1095

-----1-----1-----  
-----

>ENSRNOG00000015390 hs-mir-199b 619 626  
CCCAGUGUUUAGACUAUCUGUUC&AAAAAUCUGGUCAGACCUUGAGAGGUGGUUGUUGUAAACACUGGA  
.((((((((((((((((((..(((&.....))))..)).).....)))))))). -27.80  
>ENSRNOG00000015390 hs-mir-199b 1095 1102  
CCCAGUGUUUAGACUAUCUGUUC&CUUCUUCUAACUGGAACAUUUGUGUUGUAUCUGUAACACUGGC  
.((((((((((((((((((..(((&.....))))..)).).....)))))))). -19.60

miRNA: mir-199b  
Human predicted target: ENSG00000173327  
Mouse predicted target: ENSMUSG00000004054  
Rat predicted target: ENSRNOG00000020773  
Hs Gene description: MITOGEN-ACTIVATED PROTEIN KINASE KINASE KINASE 11; MIXED LINEAGE KINASE 3; SH3 DOMAIN-CONTAINING PROLINE-RICH KINASE; PROTEIN-TYROSINE KINASE PTK1. [Source:RefSeq;Acc:NM\_002419] NM\_002419  
mir-199b ENSG00000173327 2536 nt UTR 2 hits 54 158

--1--1-----  
-----

>ENSG00000173327 hs-mir-199b 54 61  
CCCAGUGUUUAGACUAUCUGUUC&CCGAGCUCAGCUGCCUAGGAGGAGUCACAGCAUACACUGGA

.(((((((...(((.(((((((&..))))).))))).))))). -20.31  
>ENSG00000173327 hs-mir-199b 158 165

CCCAGUGUUUAGACUAUCUGUUC&GGGGUCAGGAACACUACACUGCACAGGAAGCCUUCACACUGGA  
.(((((((...(((.(((((((&..))))).))))).))))). -23.40  
mir-199b ENSMUSG00000004054 2518 nt UTR 2 hits 52 154

--1--1-----  
-----

>ENSMUSG00000004054 hs-mir-199b 52 59  
CCCAGUGUUUAGACUAUCUGUUC&CCCACGCUUCGGCUGCCUUCGAGGAGGCAUAGCAUACACUGGA

.(((((((...(((.(((((((&..))))).))))).))))). -19.70  
>ENSMUSG00000004054 hs-mir-199b 154 161

CCCAGUGUUUAGACUAUCUGUUC&GGGGUCAGGAACACUACACUGCACAGAAAGCCUUCACACUGGA  
.(((((((...(((.(((((((&..))))).))))).))))). -24.30  
mir-199b ENSRNOG00000020773 2000 nt UTR 2 hits 212 315

-----1--1-----  
-----

>ENSRNOG00000020773 hs-mir-199b 212 219  
CCCAGUGUUUAGACUAUCUGUUC&CUUGCGCUCCAGCUGCCUCAGAGGAGGCAUAGCAUACACUGGA

.(((((((...(((.(((((((&..))))).))))).))))). -19.60  
>ENSRNOG00000020773 hs-mir-199b 315 322

CCCAGUGUUUAGACUAUCUGUUC&GCGGUCAGGAACACUACACUGCACAGAAAGCCUUCACACUGGA  
.(((((((...(((.(((((((&..))))).))))).))))). -24.30

miRNA: mir-200b

Human predicted target: ENSG00000008710  
Mouse predicted target: ENSMUSG00000032855  
Rat predicted target: ENSRNOG00000010771

Hs Gene description: POLYCYSTIN 1 PRECURSOR (AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY DISEASE PROTEIN 1). [Source:SWISSPROT;Acc:P98161]

mir-200b ENSG00000008710 3017 nt UTR 2 hits 49 223  
-1-----1-----

-----  
>ENSG00000008710 hs-mir-200b 49 56

UAAUACUGCCUGGUAUGAUGAC&CGGGGUGGGCCGUGGAGUCGGAGUGGACACCGCUCAGUAUUAC  
(((((((...(((.(((((((&..))))).))))).))))). -19.80

>ENSG00000008710 hs-mir-200b 223 230  
UAAUACUGCCUGGUAUGAUGAC&GGGUCCCCUCCCCAGCUCUUUGGGAAGGACACAGCAGUAUUGG

.(((((((...(((.(((((((&..))))).))))).))))). -17.80

mir-200b ENSMUSG00000032855 2944 nt UTR 3 hits 82 256 546  
---1-----1-----1-----

-----  
>ENSMUSG00000032855 hs-mir-200b 82 89

UAAUACUGCCUGGUAUGAUGAC&CACACUGGCCUCUCAGAGCCAGGGUGGACACCACUCAGUAUUAC  
(((((((...(((.(((((((&..))))).))))).))))). -23.00



-----1-----1-----  
-----  
>ENSMUSG00000041847 hs-mir-200b 699 706  
UAAUACUGCCUGGUAAGAUGAC&UUAGAUUUUUGCAGGGAAAGGUCUAAUCCAGAAUCAGUAUUC  
.(((((((.((((....((...&.....))))).))))). -17.80  
>ENSMUSG00000041847 hs-mir-200b 835 842  
UAAUACUGCCUGGUAAGAUGAC&UAUUUUACUUUUUUGUGUGUUCGUGGAGACAUUUGCAGUAUUA  
(((((((.((((....((...&.....))))).)))). -  
19.40  
mir-200b ENSRNOG00000001849 2492 nt UTR 3 hits 628 764 2429

-----1-----1-----  
-----1--  
>ENSRNOG00000001849 hs-mir-200b 628 635  
UAAUACUGCCUGGUAAGAUGAC&UUGGAUUUACUGCAGGGAAAGGUCUAAUCCAGAAUCAGUAUUC  
.(((((((.((((....((...&.....))))).))))). -17.80  
>ENSRNOG00000001849 hs-mir-200b 764 771  
UAAUACUGCCUGGUAAGAUGAC&UAUUUUACUUUUUUGUGUGUUCGUGGAGACAUUUGCAGUAUUA  
(((((((.((((....((...&.....))))).)))). -  
19.10  
>ENSRNOG00000001849 hs-mir-200b 2429 2436  
UAAUACUGCCUGGUAAGAUGAC&GGGAGCCCAUCCUCCACCAGCAGCAGAGAGGGAUUCAGUAUUAU  
(((((((.((((....((...&.....))))).))))). -  
18.39

miRNA: mir-200b  
Human predicted target: ENSG00000110422  
Mouse predicted target: ENSMUSG00000027177  
Rat predicted target: ENSRNOG00000011358  
Hs Gene description: HOMEODOMAIN INTERACTING PROTEIN KINASE 3;  
HOMEODOMAIN-INTERACTING PROTEIN KINASE 3. [Source:RefSeq;Acc:NM\_005734]  
NM\_005734  
mir-200b ENSG00000110422 2737 nt UTR 4 hits 1038 1738 2139 2652  
-----1-----1-----  
-----1-----1--  
>ENSG00000110422 hs-mir-200b 1038 1045  
UAAUACUGCCUGGUAAGAUGAC&AUGAUGUGUUUUUUCUAGCUUGGGCAAACCAUGCAGUAUUU  
.(((((((.((((....&.....))))).))))). -19.90  
>ENSG00000110422 hs-mir-200b 1738 1745  
UAAUACUGCCUGGUAAGAUGAC&AUUGCAUUUGUUACUUUGGGGUGUGUUUUUGCAUCAGUAUUU  
.(((((((.((((....&.....)))).)))). -15.06  
>ENSG00000110422 hs-mir-200b 2139 2146  
UAAUACUGCCUGGUAAGAUGAC&GAAAUAAAUGUGCCUGAAUUGAUUUUAAAAUACAGUAUUAG  
(((((((.((((....&.....))))).))))). -  
12.85  
>ENSG00000110422 hs-mir-200b 2652 2659  
UAAUACUGCCUGGUAAGAUGAC&UGACAUAUAAUGGUAACUUCACAUUUUCAUAAUACAGUAUUA

((((((((((..(((.((((.((((.&.....))))).))))).)))).)))). -  
16.50

mir-200b ENSMUSG00000027177 2090 nt UTR 2 hits 1058 1748  
-----1-----1-----

>ENSMUSG00000027177 hs-mir-200b 1058 1065  
UAAUACUGCCUGGUAAGAUGAC&CAUGAUGUGCGCCUCCUUGCUUGGGCAGACCGUGCAGUAUUU  
.((((((((((..(((.((((.((((.&.....))))).))))).)))).)))). -19.30

>ENSMUSG00000027177 hs-mir-200b 1748 1755  
UAAUACUGCCUGGUAAGAUGAC&AGUUGCCUAUGUUAUUUUGGGGUGUGUUAUUGCAUCAGUAUUU  
.((((((((((..(((.((((.((((.&.....))))).))))).)))).)))). -17.20

mir-200b ENSRNOG00000011358 2072 nt UTR 2 hits 1057 1749  
-----1-----1-----

>ENSRNOG00000011358 hs-mir-200b 1057 1064  
UAAUACUGCCUGGUAAGAUGAC&CCAUGAUGUGCUCUUCUUGCUUGGGCAGACCAUGCAGUAUUU  
.((((((((((..(((.((((.((((.&.....))))).))))).)))).)))). -20.00

>ENSRNOG00000011358 hs-mir-200b 1749 1756  
UAAUACUGCCUGGUAAGAUGAC&AUUGCCUAUGUUAUUUUGGGGUGUGUUAUUGCAUCAGUAUUU  
.((((((((((..(((.((((.((((.&.....))))).))))).)))).)))). -14.20

miRNA: mir-200b  
Human predicted target: ENSG00000115963  
Mouse predicted target: ENSMUSG00000017144  
Rat predicted target: ENSRNOG00000004624  
Hs Gene description: RHO-RELATED GTP-BINDING PROTEIN RHOE (RHO8) (RND3).  
[Source:SWISSPROT;Acc:P52199] NM\_005168  
mir-200b ENSG00000115963 3792 nt UTR 2 hits 1584 1729  
-----1-----1-----

>ENSG00000115963 hs-mir-200b 1584 1591  
UAAUACUGCCUGGUAAGAUGAC&AAUAUGCUUUGAUUGAUGCAGCAUUAUGCUUUGGGCAGUAUUAC  
((((((((((..(((.((((.((((.&.....))))).))))).)))).)))). -  
27.20

>ENSG00000115963 hs-mir-200b 1729 1736  
UAAUACUGCCUGGUAAGAUGAC&AGUCACUGUGUAUGUUUGUUUGGUCAAUGUUUCCGCAGUAUUU  
.((((((((((..(((.((((.((((.&.....))))).))))).)))).)))). -19.30

mir-200b ENSMUSG00000017144 3855 nt UTR 2 hits 1647 1797  
-----1-----1-----

>ENSMUSG00000017144 hs-mir-200b 1647 1654  
UAAUACUGCCUGGUAAGAUGAC&AAUACGCUCUGACUGGUACAGCAUUAUGCUUUGGGCAGUAUUAC  
((((((((((..(((.((((.((((.&.....))))).))))).)))).)))). -  
27.20

>ENSMUSG00000017144 hs-mir-200b 1797 1804

UAAUACUGCCUGGUAUGAUGAC&AGUCACUUUGUAUGUUUGUUUGGUCAGUGUUUCCACAGUAUUU  
.(((((((((((((..(((..((((&.....))))).)))))))). -17.70  
mir-200b ENSRNOG00000004624 2000 nt UTR 2 hits 1658 1806

-----1-----1-

>ENSRNOG00000004624 hs-mir-200b 1658 1665  
UAAUACUGCCUGGUAUGAUGAC&AAUAUGCUCUGACUGGUACAGCGUCAUGCUUUGGGCAGUAUUAC  
(((((((((((..(((..((((&.....))))).)))))))). -  
29.00  
>ENSRNOG00000004624 hs-mir-200b 1806 1813  
UAAUACUGCCUGGUAUGAUGAC&GUCACUUUGUAUGUUUGUUUGGUCAGUGUUUCCACAGUAUUU  
.(((((((((((..(((..((((&.....))))).)))))))). -16.80

miRNA: mir-200b  
Human predicted target: ENSG00000127314  
Mouse predicted target: ENSMUSG00000020200  
Rat predicted target: ENSRNOG00000007048  
Hs Gene description: RAS-RELATED PROTEIN RAP-1B (GTP-BINDING PROTEIN SMG  
P21B). [Source:SWISSPROT;Acc:P09526] NM\_015646  
mir-200b ENSG00000127314 3273 nt UTR 3 hits 250 1125 1516

-----1-----1-----1-----

>ENSG00000127314 hs-mir-200b 250 257  
UAAUACUGCCUGGUAUGAUGAC&UAGAGUUUGCAGCUGGUAACCAGAGGCUACAUCAGUAUUAC  
(((((((((((.....&.....))))).)))))))). -  
16.00  
>ENSG00000127314 hs-mir-200b 1125 1132  
UAAUACUGCCUGGUAUGAUGAC&AUGUAAAGAUUGUGUGUCUAUCCAACAGGGAGCCACAGUAUUU  
.(((((((((((.....(((..((((&.....))))).)))))))). -16.80  
>ENSG00000127314 hs-mir-200b 1516 1523  
UAAUACUGCCUGGUAUGAUGAC&GAACUUUCCUUGAGAAAUAUUUUGUAAAUCAAGCAGUAUUAC  
(((((((((((..(((..(((.....&.....))))).)))))))). -  
18.80

mir-200b ENSMUSG00000020200 3340 nt UTR 3 hits 246 1121 3119

-----1-----1-----1-----

>ENSMUSG00000020200 hs-mir-200b 246 253  
UAAUACUGCCUGGUAUGAUGAC&UAGAGUAUGCAGCUGGUAACCAGAGGCUACAUCAGUAUUAC  
(((((((((((.....&.....))))).)))))))). -  
16.00  
>ENSMUSG00000020200 hs-mir-200b 1121 1128  
UAAUACUGCCUGGUAUGAUGAC&GUGUAAAGAUUGUGUGUCCAACAGGGAGCCACAGUAUUU  
.(((((((((((.....(((..((((&.....))))).)))))))). -16.80  
>ENSMUSG00000020200 hs-mir-200b 3119 3126  
UAAUACUGCCUGGUAUGAUGAC&UAGAGUAUGCAGCUGGUAACCAGAGGCUACAUCAGUAUUAC  
(((((((((((.....&.....))))).)))))))). -  
16.00



mir-200b ENSRNOG00000007048 3254 nt UTR 4 hits 251 1125 1610 3055  
-----1-----1-----1-----  
-----1-----  
>ENSRNOG00000007048 hs-mir-200b 251 258  
UAAUACUGCCUGGUAUGAUGAC&UAGAGUAUGCAGCUGGUAACCAGAGGCUACAUCAGUAUUAC  
((((((((((((((.....&.....)))))).).....)))))))). -  
16.00  
>ENSRNOG00000007048 hs-mir-200b 1125 1132  
UAAUACUGCCUGGUAUGAUGAC&GUGUAAAGAUUGUGUGUCCAACAGGGAGCCACAGUAUUU  
((((((((((((((.....(((((&.....)))))).).....)))))))). -16.80  
>ENSRNOG00000007048 hs-mir-200b 1610 1617  
UAAUACUGCCUGGUAUGAUGAC&GGACGUCUGCAACAAGCCUCCAGGCAAGAGCUCUCAGUAUUC  
((((((((((((((.....(((((&.....)))))).).....)))))))). -17.53  
>ENSRNOG00000007048 hs-mir-200b 3055 3062  
UAAUACUGCCUGGUAUGAUGAC&UAGAGUAUGCAGCUGGUAACCAGAGGCUACAUCAGUAUUAC  
((((((((((((((((((.....&.....)))))).).....)))))))). -  
16.00

miRNA: mir-200b  
Human predicted target: ENSG00000138668  
Mouse predicted target: ENSMUSG00000000568  
Rat predicted target: ENSRNOG00000002292  
Hs Gene description: HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN D0 (HNRNP D0)  
(AU-RICH ELEMENT RNA-BINDING PROTEIN 1). [Source:SWISSPROT;Acc:Q14103]  
mir-200b ENSG00000138668 2844 nt UTR 5 hits 40 258 1886 2003 2221  
-1-----1-----  
-1----1-----1-----  
>ENSG00000138668 hs-mir-200b 40 47  
UAAUACUGCCUGGUAUGAUGAC&UCCAUUUGCAACUUAUCCCAACAGGUGGUGAAGCAGUAUUU  
((((((((((((((.....(((((&.....)))))).).....)))))))). -16.90  
>ENSG00000138668 hs-mir-200b 258 265  
UAAUACUGCCUGGUAUGAUGAC&CUUCAGAAUCAAUUUGUGUUUUAUGCCCUUCCCCAGUAUUGU  
((((((((((((((.....(((((&.....)))))).).....)))))))). -  
13.10  
>ENSG00000138668 hs-mir-200b 1886 1893  
UAAUACUGCCUGGUAUGAUGAC&UAAUUUAUAAAACAUAUCACACAUUUAUGUUUAUACAGUAUUU  
((((((((((((((.....(((((&.....)))))).).....)))))))). -13.20  
>ENSG00000138668 hs-mir-200b 2003 2010  
UAAUACUGCCUGGUAUGAUGAC&UUCUAUUUUUUCUUCUUGUCUCCAGGUGGUGAAGCAGUAUUU  
((((((((((((((((((.....(((((&.....)))))).).....)))))))). -19.00  
>ENSG00000138668 hs-mir-200b 2221 2228  
UAAUACUGCCUGGUAUGAUGAC&CUUCAGAAUCAAUUUGUGUUUUAUGCCCUUCCCCAGUAUUGU  
((((((((((((((((((.....(((((&.....)))))).).....)))))))). -  
13.10  
mir-200b ENSMUSG00000000568 2357 nt UTR 5 hits 40 261 1431 1548 1769  
-1-----1-----1-----1-----  
-----

```

>ENSMUSG00000000568 hs-mir-200b      40      47
UAAUACUGCCUGGUAAGAUGAC&UCCAUUUGCAACUUAUCCCCAACAGGUGGUGAAGCAGUAUUU
.((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -16.90
>ENSMUSG00000000568 hs-mir-200b     261     268
UAAUACUGCCUGGUAAGAUGAC&AGUAUCAAUUUGUGUUUUUAUGCCCCCCCUCSCCCCCCAGUAUUGU
((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -
13.00
>ENSMUSG00000000568 hs-mir-200b     1431    1438
UAAUACUGCCUGGUAAGAUGAC&UUUAUAAAGCAUACCCACACAUUUAUGUUUAUACAGUAUUU
.((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -13.70
>ENSMUSG00000000568 hs-mir-200b     1548    1555
UAAUACUGCCUGGUAAGAUGAC&CUUUGUCCUUUUUCUUUGUCUCCAGGUGGUGAAGCAGUAUUU
.((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -19.00
>ENSMUSG00000000568 hs-mir-200b     1769    1776
UAAUACUGCCUGGUAAGAUGAC&AGUAUCAAUUUGUGUUUUUAUGCCCCCCCUCSCCCCCCAGUAUUGU
((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -
13.00

```

```

mir-200b  ENSRNOG00000002292  2000 nt UTR    3 hits 1122 1239 1459
-----1-----1-----1-----
-----

```

```

>ENSRNOG00000002292 hs-mir-200b     1122    1129
UAAUACUGCCUGGUAAGAUGAC&UUUAUAAAACAUACCCACACAUUUAUGUUUAUACAGUAUUU
.((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -13.70
>ENSRNOG00000002292 hs-mir-200b     1239    1246
UAAUACUGCCUGGUAAGAUGAC&CUGUGUCCCUUCUCUUUGUCUCCAGGUGGUGAAGCAGUAUUU
.((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -18.90
>ENSRNOG00000002292 hs-mir-200b     1459    1466
UAAUACUGCCUGGUAAGAUGAC&CAGUAUCAAUUUGUGUUUUUAUGCCCCCCCUCSCCCCCCAGUAUUGU
((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -
13.00

```

```

miRNA: mir-200b
Human predicted target: ENSG00000139910
Mouse predicted target: ENSMUSG00000021047
Rat predicted target: ENSRNOG00000004331
Hs Gene description: ONCONEURAL VENTRAL ANTIGEN-1 (NOVA-1) (PARANEOPLASTIC
RI ANTIGEN) (VENTRAL NEURON-SPECIFIC PROTEIN 1).
[Source:SWISSPROT;Acc:P51513]

```

```

mir-200b  ENSG00000139910      2000 nt UTR    2 hits 330 1128
-----1-----1-----
-----

```

```

>ENSG00000139910 hs-mir-200b      330      337
UAAUACUGCCUGGUAAGAUGAC&UGAUUGAAUGUAGACAGGGUAUUGCGUAUAGUUUCAGUAUUAG
((((((((((((.....(((((&.....)))))).....)))))).....)))))))). -
15.12
>ENSG00000139910 hs-mir-200b     1128     1135
UAAUACUGCCUGGUAAGAUGAC&AUGUUUUGUGGAGCAUUUUUAUGUCACCAACCAGACAGUAUUU

```

.(((((((.((((.(.(.(((&.....))))).)))))).))))). -22.70  
mir-200b ENSMUSG00000021047 3999 nt UTR 3 hits 329 1127 2303

-----1-----1-----  
-----1-----

>ENSMUSG00000021047 hs-mir-200b 329 336  
UAAUACUGCCUGGUAAGAUGAC&UGAUUGAAUGUAGACAGGGUAUGCGUAUAGUUUCAGUAUUAG  
(((((((.((((.(.(.(((&.....))))).)))))).))))). -  
15.12

>ENSMUSG00000021047 hs-mir-200b 1127 1134  
UAAUACUGCCUGGUAAGAUGAC&AUGUUUUGUGGAGCAUUUUUAUGUCACCAACCAGACAGUAUUU  
.(((((((.((((.(.(.(((&.....))))).)))))).))))). -22.70

>ENSMUSG00000021047 hs-mir-200b 2303 2310  
UAAUACUGCCUGGUAAGAUGAC&GCAUUUCAAAUGUCGGGUCUUGAAAUGUUUUGUUCAGUAUUAG  
(((((((.((((.(.(.(((&.....))))).)))))).))))). -  
15.66

mir-200b ENSRNOG00000004331 7451 nt UTR 2 hits 1126 2300

-----1-----  
-----1-----

>ENSRNOG00000004331 hs-mir-200b 1126 1133  
UAAUACUGCCUGGUAAGAUGAC&AUGUUUUGUGGAGCAUUUUUAUGUCACCAACCAGACAGUAUUU  
.(((((((.((((.(.(.(((&.....))))).)))))).))))). -22.70

>ENSRNOG00000004331 hs-mir-200b 2300 2307  
UAAUACUGCCUGGUAAGAUGAC&GCAUUUCAAAUGUCGGGUCUUUAAAUGUUUUGUUCAGUAUUAG  
(((((((.((((.(.(.(((&.....))))).)))))).))))). -  
15.66

miRNA: mir-200b  
Human predicted target: ENSG00000148516  
Mouse predicted target: ENSMUSG00000024238  
Rat predicted target: ENSRNOG00000017863  
Hs Gene description: TRANSCRIPTION FACTOR 8 (NIL-2-A ZINC FINGER PROTEIN)  
(NEGATIVE REGULATOR OF IL2). [Source:SWISSPROT;Acc:P37275] NM\_030751  
mir-200b ENSG00000148516 3932 nt UTR 7 hits 369 463 892 1243 1313  
1964 2960

-----1--1-----1-----1--1-----  
-----1-----1-----

>ENSG00000148516 hs-mir-200b 369 376  
UAAUACUGCCUGGUAAGAUGAC&UAAUUAGAUUAGCAUCUGGCAUUGUUUUAUCUUAUCAGUAUUU  
(((((((.((((.(.(.(((&.....))))).)))))).))))). -  
16.60

>ENSG00000148516 hs-mir-200b 463 470  
UAAUACUGCCUGGUAAGAUGAC&AAUUUUUUAUUGGUAACAUAUGCUAAAUCGCUUCAGUAUUU

```

((((((((((.....&.....)))))))). -11.90
>ENSG00000148516 hs-mir-200b      892      899
UAAUACUGCCUGGUAUGAUGAC&UUAAGCAAGACCUGUGUGCUGUAAGUGCCAUUUCAGUAUUU
((((((((((.....&.....)))))))). -13.90
>ENSG00000148516 hs-mir-200b     1243     1250
UAAUACUGCCUGGUAUGAUGAC&CAAUUUAUUAACAACAUUAGCUGAUUUUUACCUAUCAGUAUUU
((((((((((.....&.....)))))))). -
18.70
>ENSG00000148516 hs-mir-200b     1313     1320
UAAUACUGCCUGGUAUGAUGAC&UGCAACAUUUUUGUACUGUAUGUCUCAAACCUGGCAGUAUUAA
((((((((((.....&.....)))))))). -
27.20
>ENSG00000148516 hs-mir-200b     1964     1971
UAAUACUGCCUGGUAUGAUGAC&CAAGCCUGAACUGCUGUCAUUCUUUCAUCAUUAUCAGUAUUU
((((((((((.....&.....)))))))). -20.40
>ENSG00000148516 hs-mir-200b     2960     2967
UAAUACUGCCUGGUAUGAUGAC&AACUUUUCAGAAAGAAAACGUACAUGGACCUUCCAGUAUUC
((((((((((.....&.....)))))))). -16.70
mir-200b  ENSMUSG00000024238  3845 nt UTR      4 hits 303 811 1156 1226
-----1-----1-----1--1-----
-----
>ENSMUSG00000024238 hs-mir-200b      303      310
UAAUACUGCCUGGUAUGAUGAC&UACAGGAGGCUGGAUGGGCGUCCGGCAUGGCUAGCAGUAUUU
((((((((((.....&.....)))))))). -
23.60
>ENSMUSG00000024238 hs-mir-200b      811      818
UAAUACUGCCUGGUAUGAUGAC&GCCUUAAGCAAGACCUGUGCUCUAAGUGCCAUUCAGUAUUGC
((((((((((.....&.....)))))))). -
16.20
>ENSMUSG00000024238 hs-mir-200b     1156     1163
UAAUACUGCCUGGUAUGAUGAC&CAGGUGAUGAACAACAGCAGCUGAUUUUUACCUACCAGUAUUU
((((((((((.....&.....)))))))). -
18.70
>ENSMUSG00000024238 hs-mir-200b     1226     1233
UAAUACUGCCUGGUAUGAUGAC&UGCAACAUUUUUGUACUGUAUGUCUUUAAGCCUGGCAGUAUUAA
((((((((((.....&.....)))))))). -
25.30
mir-200b  ENSRNOG00000017863  3802 nt UTR     10 hits 280 371 934 1118 1188
1983 2074 2645 2829 2899
-----1--1-----1-----1--1-----
-----1--1-----1-----1-1-----
-----
>ENSRNOG00000017863 hs-mir-200b      280      287
UAAUACUGCCUGGUAUGAUGAC&UACAGGAAGCUCGAUGGGCAUCUGGCUUGGCUGGCAGUAUUU
((((((((((.....&.....)))))))). -
24.80
>ENSRNOG00000017863 hs-mir-200b      371      378

```

```

UAAUACUGCCUGGUAAGAUGAC&AAUUUUUUAUUGGUAACAUAUGCUAAAUCCACUUCAGUAUUU
.(((((((...((...&...)))))))). -12.60
>ENSRNOG00000017863 hs-mir-200b 934 941
UAAUACUGCCUGGUAAGAUGAC&GCUGAAGCACUGGGACAUUUCACACUUCUGUCCUCAGUAUUC
.(((((((...((...&...)))))))). -13.99
>ENSRNOG00000017863 hs-mir-200b 1118 1125
UAAUACUGCCUGGUAAGAUGAC&ACCCAGGUGAUGAACAGCAGCUGAUUUUUACCUACCAGUAUUAU
(((((((...((...&...)))))))). -
18.70
>ENSRNOG00000017863 hs-mir-200b 1188 1195
UAAUACUGCCUGGUAAGAUGAC&UGCAACAUUUUUGUACUGUACGUCUUCAAGCCUGGCAGUAUUAA
(((((((...((...&...)))))))). -
27.80
>ENSRNOG00000017863 hs-mir-200b 1983 1990
UAAUACUGCCUGGUAAGAUGAC&UUACAGGAAGCUCGAUGGGCAUCUGGCUUGGCUGGCAGUAUUAU
(((((((...((...&...)))))))). -
24.80
>ENSRNOG00000017863 hs-mir-200b 2074 2081
UAAUACUGCCUGGUAAGAUGAC&AAUUUUUUAUUGGUAACAUAUGCUAAAUCCACUUCAGUAUUU
.(((((((...((...&...)))))))). -12.60
>ENSRNOG00000017863 hs-mir-200b 2645 2652
UAAUACUGCCUGGUAAGAUGAC&GCUGAAGCACUGGGACAUUUCACACUUCUGUCCUCAGUAUUC
.(((((((...((...&...)))))))). -13.99
>ENSRNOG00000017863 hs-mir-200b 2829 2836
UAAUACUGCCUGGUAAGAUGAC&ACCCAGGUGAUGAACAGCAGCUGAUUUUUACCUACCAGUAUUAU
(((((((...((...&...)))))))). -
18.70
>ENSRNOG00000017863 hs-mir-200b 2899 2906
UAAUACUGCCUGGUAAGAUGAC&UGCAACAUUUUUGUACUGUACGUCUUCAAGCCUGGCAGUAUUAA
(((((((...((...&...)))))))). -
27.80

```

miRNA: mir-200b

Human predicted target: ENSG00000169554

Mouse predicted target: ENSMUSG00000026872

Rat predicted target: ENSRNOG00000004677

Hs Gene description: ZINC FINGER HOMEBOX PROTEIN 1B (SMAD INTERACTING PROTEIN 1) (SMADIP1). [Source:SWISSPROT;Acc:O60315] NM\_014795

mir-200b ENSG00000169554 3433 nt UTR 5 hits 392 455 813 898 1029

-----1--1-----1--1-----1-----1-----

```

>ENSG00000169554 hs-mir-200b 392 399
UAAUACUGCCUGGUAAGAUGAC&AUACAUUUUAAAAGGUGCCCGCACUACCAUACAUCAGUAUUU
.(((((((...((...&...)))))))). -15.90
>ENSG00000169554 hs-mir-200b 455 462
UAAUACUGCCUGGUAAGAUGAC&CCUUUUUAUUUAAUGUGCUCGCACUACAAUGCAUCAGUAUUAU

```

```

((((((((.....(((.(.((.(.(&.....))))).))).....)))))) -
14.60
>ENSG00000169554 hs-mir-200b      813      820
UAAUACUGCCUGGUAAGAUGAC&UGUUAAGCUCACCCUGUUCUUUGAAGCACCCAUGUCAGUAUUAG
((((((((((.(.((.....&.....))))).))).....)))) -
16.10
>ENSG00000169554 hs-mir-200b      898      905
UAAUACUGCCUGGUAAGAUGAC&AUUAAUUUCUGUACUUUUUUGUUCAUUAUUUUUGUCAGUAUUAC
((((((((((.(.((.....&.....))))).))).....)))) -
16.50
>ENSG00000169554 hs-mir-200b     1029     1036
UAAUACUGCCUGGUAAGAUGAC&AUUUCUAAUUUUUUUUUUUUUUUUCAUACUGUAGUGUACAGUAUUAAU
((((((((((.(.((.....&.....))))).))).....)))) -
14.80
mir-200b  ENSMUSG00000026872  2149 nt UTR      4 hits 464 826 911 1045
-----1-----1--1---1-----
-----
>ENSMUSG00000026872 hs-mir-200b      464      471
UAAUACUGCCUGGUAAGAUGAC&CCUGUUUAAUUUAAUGUGCCCGCACUACAGUGCAUCAGUAUUAC
((((((((((.(.((.....&.....))))).))).....)))) -
14.60
>ENSMUSG00000026872 hs-mir-200b      826      833
UAAUACUGCCUGGUAAGAUGAC&UGUUAAGCUCACCGUGUUCUUUGAAGCACCCGUGUCAGUAUUAG
((((((((((.(.((.....&.....))))).))).....)))) -
15.72
>ENSMUSG00000026872 hs-mir-200b      911      918
UAAUACUGCCUGGUAAGAUGAC&AUUAAUUUCUGUACUUUUUUGUUCAUUAUUUUUGUCAGUAUUAC
((((((((((.(.((.....&.....))))).))).....)))) -
16.50
>ENSMUSG00000026872 hs-mir-200b     1045     1052
UAAUACUGCCUGGUAAGAUGAC&AUUUCUAAUUUUUUUUUUUUUUUUCAUACUGUAGUGUACAGUAUUAAU
((((((((((.(.((.....&.....))))).))).....)))) -
14.80
mir-200b  ENSRNOG00000004677  3784 nt UTR      5 hits 461 816 905 1038 3530
-----1-----1--1---1-----
-----
>ENSRNOG00000004677 hs-mir-200b      461      468
UAAUACUGCCUGGUAAGAUGAC&CCUGUUUAAUUUAAUGUGCCCGCACUACAGUGCAUCAGUAUUAC
((((((((((.(.((.....&.....))))).))).....)))) -
14.60
>ENSRNOG00000004677 hs-mir-200b      816      823
UAAUACUGCCUGGUAAGAUGAC&UGUUAAGCUCACUCUGUUCUUUGAAGCACCCGUGUCAGUAUUAG
((((((((((.(.((.....&.....))))).))).....)))) -
16.00
>ENSRNOG00000004677 hs-mir-200b      905      912
UAAUACUGCCUGGUAAGAUGAC&UUUUCUGUACUUUUUUUUUUUGUUCAUUAUUUUUUUGUCAGUAUUAC

```

(((((((((((((.....(((((((.&.....)))))).....)))))))). -  
16.00  
>ENSRNOG00000004677 hs-mir-200b 1038 1045  
UAAUACUGCCUGGUAAGAUGAC&AUUUCUAAUUUUUUUUUUUAUUUCAUACUGUAGUGUACAGUAAUUU  
(((((((((((((.....(((((((.&.....)))))).....)))))))). -  
14.80  
>ENSRNOG00000004677 hs-mir-200b 3530 3537  
UAAUACUGCCUGGUAAGAUGAC&GUAAGCUUAGUUCUGAGAAACUGGGGAAGAGAGACCAGUAAUU  
.((((((((((((((.....(((((((.&.....)))))).....)))))))). -14.10

miRNA: mir-200b

Human predicted target: ENSG00000176165

Mouse predicted target: ENSMUSG00000020950

Rat predicted target: ENSRNOG00000004156

Hs Gene description: FORKHEAD BOX PROTEIN G1B (FORKHEAD-RELATED PROTEIN  
FKHL1) (TRANSCRIPTION FACTOR BF-1) (BRAIN FACTOR 1) (BF1) (HFK1).

[Source:SWISSPROT;Acc:P55315] NM\_005249

mir-200b ENSG00000176165 2922 nt UTR 2 hits 315 1959

-----1-----

-----1-----

>ENSG00000176165 hs-mir-200b 315 322  
UAAUACUGCCUGGUAAGAUGAC&GUCUAUCUCUAAGAGCCGCCAGAUUCCAUGUGUGCAGUAAUUU  
(((((((((((((.....(((((((.&.....)))))).....)))))))). -  
20.02

>ENSG00000176165 hs-mir-200b 1959 1966  
UAAUACUGCCUGGUAAGAUGAC&AUUUGUUAACAAUGUUAUAGUCUGAAAUGUGUUCUGCAGUAAUUGG  
(((((((((((((.....(((((((.&.....)))))).....)))))))). -  
16.30

mir-200b ENSMUSG00000020950 2925 nt UTR 2 hits 314 2614

-----1-----

-----1-----

>ENSMUSG00000020950 hs-mir-200b 314 321  
UAAUACUGCCUGGUAAGAUGAC&GUCUAUCUCAACAGGCUGCCAGAUUCCAUGUGUGCAGUAAUUU  
(((((((((((((.....(((((((.&.....)))))).....)))))))). -  
23.00

>ENSMUSG00000020950 hs-mir-200b 2614 2621  
UAAUACUGCCUGGUAAGAUGAC&UUAUGGAAUAAGUAUGUACUACCACGGAGGAAACACAGUAAUUA  
(((((((((((((.....(((((((.&.....)))))).....)))))))). -  
17.60

mir-200b ENSRNOG00000004156 2930 nt UTR 2 hits 315 2649

-----1-----

-----1-----

>ENSRNOG00000004156 hs-mir-200b 315 322  
UAAUACUGCCUGGUAAGAUGAC&GUCUAUCUCUAAGGCGCCAGAUUCCAUGUGUGCAGUAAUUU  
(((((((((((((.....(((((((.&.....)))))).....)))))))). -  
21.20

>ENSRNOG00000004156 hs-mir-200b 2649 2656

UAAUACUGCCUGGUAAGAUGAC&UUUAUGGAAUGAGUAUGUACUACACAGAGGAAAUACAGUAUUGA  
(((((((((((((((((((((.....&.....)))))))).))))).)))). -  
13.80

miRNA: mir-200b

Human predicted target: ENSG00000177189

Mouse predicted target: ENSMUSG00000031309

Rat predicted target: ENSRNOG00000006632

Hs Gene description: RIBOSOMAL PROTEIN S6 KINASE ALPHA 3 (EC 2.7.1.37)  
(S6K-ALPHA 3) (90 KDA RIBOSOMAL PROTEIN S6 KINASE 3) (P90-RSK 3)  
(RIBOSOMAL S6 KINASE 2) (RSK-2) (PP90RSK2) (INSULIN-STIMULATED PROTEIN  
KINASE 1) (ISPK-1). [Source:SWISSPROT;Acc:P51812] NM\_004586

mir-200b ENSG00000177189 2577 nt UTR 2 hits 588 1295

-----1-----1-----

>ENSG00000177189 hs-mir-200b 588 595

UAAUACUGCCUGGUAAGAUGAC&CUAUUAAAUCUGGUUAAAUAGUUCACCUGGAUUAACAGUAUUGU  
(((((((((((((((((((((.....&.....)))))))).))))).)))). -  
16.20

>ENSG00000177189 hs-mir-200b 1295 1302

UAAUACUGCCUGGUAAGAUGAC&AGUUUUCAUAAUGGCCACUGGGCCUGCUUAGAUUGCAGUAUUC  
(((((((((((((((((((((.....&.....)))))))).))))).)))). -17.97

mir-200b ENSMUSG00000031309 2553 nt UTR 3 hits 566 1249 1256

-----1-----11-----

>ENSMUSG00000031309 hs-mir-200b 566 573

UAAUACUGCCUGGUAAGAUGAC&CUAUUAAAUCUGGAUAAAUAGUUCACCUGGAUUAACAGUAUUGU  
(((((((((((((((((((((.....&.....)))))))).))))).)))). -  
15.70

>ENSMUSG00000031309 hs-mir-200b 1249 1256

UAAUACUGCCUGGUAAGAUGAC&AGAUUUCACAAUGGCCCCUGGCUGCACUUCAAGUGCAGUAUUC  
(((((((((((((((((((((.....&.....)))))))).))))).)))). -17.06

>ENSMUSG00000031309 hs-mir-200b 1256 1263

UAAUACUGCCUGGUAAGAUGAC&ACAAUGGCCCCUGGCUGCACUUCAAGUGCAGUAUUCAGUAUUC  
(((((((((((((((((((((.....&.....)))))))).))))).)))). -12.30

mir-200b ENSRNOG00000006632 2003 nt UTR 2 hits 570 1298

-----1-----1-----

>ENSRNOG00000006632 hs-mir-200b 570 577

UAAUACUGCCUGGUAAGAUGAC&CUAUUAAAUCUGGAUAAAUAGUUCACCUGGAUUAACAGUAUUGU  
(((((((((((((((((((((.....&.....)))))))).))))).)))). -  
15.70

>ENSRNOG00000006632 hs-mir-200b 1298 1305

UAAUACUGCCUGGUAAGAUGAC&CAGAUUUCGAAUGGCCUCCGGCUGCACUUCGGUGCAGUAUUC  
(((((((((((((((((((((.....&.....)))))))).))))).)))). -17.70



miRNA: mir-200b

Human predicted target: ENSG00000179387

Mouse predicted target: ENSMUSG00000035151

Rat predicted target: ENSRNOG00000011225

Hs Gene description: NM\_153702

mir-200b ENSG00000179387 2322 nt UTR 3 hits 611 701 1591

-----1--1-----1-----  
-----

>ENSG00000179387 hs-mir-200b 611 618  
UAAUACUGCCUGGUAAGAUGAC&UCUGUGAUUAUUGAGCAUAACUGAUGAGAGAAUGACAGUAUUGG  
(((((((((.((((((&...)).)))))).....)).)))))) -  
14.30

>ENSG00000179387 hs-mir-200b 701 708  
UAAUACUGCCUGGUAAGAUGAC&UGUUAUUUGAAAGCUUAAAGGCAUUUUCUCAUCUUCAGUAUUU  
(((((((((((.....)))))).....)).)))))) -12.93

>ENSG00000179387 hs-mir-200b 1591 1598  
UAAUACUGCCUGGUAAGAUGAC&GUUCACUUUAUUAACAUAUGUGGCAAUUUAGCUUUUCAGUAUUAC  
(((((((((.((((((&..)).)))))).....)).)))))) -  
15.31

mir-200b ENSMUSG00000035151 2000 nt UTR 2 hits 676 1538  
-----1-----1-----  
-----

>ENSMUSG00000035151 hs-mir-200b 676 683  
UAAUACUGCCUGGUAAGAUGAC&UUUUAUCCUAAGGAGUCUAGGCAUUUACUCCAGGUCAGUAUUU  
(((((((((((.....)))))).....)).)))))) -25.00

>ENSMUSG00000035151 hs-mir-200b 1538 1545  
UAAUACUGCCUGGUAAGAUGAC&CUUUGUUUUUAUAUACUAGAAAGGAUUCAGCUUUUCAGUAUUUAU  
(((((((((.((((((&.....)))))).....)).)))))) -  
14.73

mir-200b ENSRNOG00000011225 2000 nt UTR 2 hits 665 1390  
-----1-----1-----  
-----

>ENSRNOG00000011225 hs-mir-200b 665 672  
UAAUACUGCCUGGUAAGAUGAC&UCUUAUUUUUAAGGACUCUAGGCAUUUACUCCAGUCCAGUAUUU  
(((((((((.(((((.....&.....)))))).....)).)))))) -19.30

>ENSRNOG00000011225 hs-mir-200b 1390 1397  
UAAUACUGCCUGGUAAGAUGAC&UCUUAUUUUUAAGGACUCUAGGCAUUUACUCCAGUCCAGUAUUU  
(((((((((.(((((.....&.....)))))).....)).)))))) -19.30

miRNA: mir-202

Human predicted target: ENSG00000077274

Mouse predicted target: ENSMUSG00000041755

Rat predicted target: ENSRNOG00000004882

Hs Gene description: CALPAIN 6 (CALPAMODULIN) (CALPM) (CALPAIN-LIKE  
PROTEASE X-LINKED). [Source:SWISSPROT;Acc:Q9Y6Q1] NM\_014289

mir-202 ENSG00000077274 3474 nt UTR 2 hits 142 184

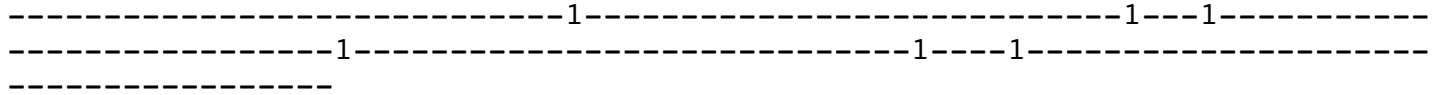
```

-----1-1-----
-----
>ENSG00000077274 hs-mir-202      142      149
AGAGGUUAUAGCGCAUGGGAAGA&AUAAUUAACUCUUCUCUCUUCUGAUAAAUCCCAUACCUCC
.((((((((((.....(((((((&.....)))))).....)).....)))))))). -19.00
>ENSG00000077274 hs-mir-202      184      191
AGAGGUUAUAGCGCAUGGGAAGA&CCAAUCCAAGUAGCAUCUGUAGCUACAUAACCUAUAUACCUCC
.(((((((((((((.....&.....))))).)).....)))))))). -18.45
mir-202      ENSMUSG00000041755      2014 nt UTR      2 hits 126 168
-----11-----
-----
>ENSMUSG00000041755 hs-mir-202      126      133
AGAGGUUAUAGCGCAUGGGAAGA&CAUUUAUUAUGUUUUCUCUUUUCUGAUUUUCCCAUACCUCC
.((((((((((.....((((((.&.....)))))).....)))))))). -19.41
>ENSMUSG00000041755 hs-mir-202      168      175
AGAGGUUAUAGCGCAUGGGAAGA&CUGAUCCAAGUAGCAUCAGUAGCUACAUAACCUAUAUACCUCC
.(((((((((((((.....&.....))))).)).....)))))))). -18.55
mir-202      ENSRNOG00000004882      3412 nt UTR      2 hits 127 169
-----11-----
-----
>ENSRNOG00000004882 hs-mir-202      127      134
AGAGGUUAUAGCGCAUGGGAAGA&CAUUUAUUAACGUUUUCUCUUUUCGGAUUUCCCAUACCUCC
.((((((((((.....((((((.&.....)))))).....)))))))). -18.50
>ENSRNOG00000004882 hs-mir-202      169      176
AGAGGUUAUAGCGCAUGGGAAGA&CUGAUCCAAGUAGCAUCAGUAGCUACAGAACCUAUAUACCUCC
.(((((((((((((.....&.....))))).)).....)))))))). -18.55

miRNA: mir-202
Human predicted target: ENSG00000110583
Mouse predicted target: ENSMUSG00000024764
Rat predicted target: ENSRNOG00000021179
Hs Gene description: NM_024771
mir-202      ENSG00000110583      4493 nt UTR      2 hits 875 1900
-----1-----
-1-----
-----
>ENSG00000110583 hs-mir-202      875      882
AGAGGUUAUAGCGCAUGGGAAGA&CGUUCUUUCUCCUCUGCCUCUACCUCUACCCCAAUACCUCCUG
((((((((((.....((((((.&.....)))))).....)))))))). -21.89
>ENSG00000110583 hs-mir-202      1900      1907
AGAGGUUAUAGCGCAUGGGAAGA&GCUAAAUAUUUAUUGUCUUAUGAUCAUGGAUUCUGAUACCUCCUC
((((((((((.....((((((.&.....)))))).....)))))))). -20.20
mir-202      ENSMUSG00000024764      4276 nt UTR      3 hits 779 1556 1682
-----1-----1-----1-----
-----
>ENSMUSG00000024764 hs-mir-202      779      786

```

AGAGGUUAUAGCGCAUGGGAAGA&UCCUGCCUGUUCUCACACCUCUCUUCUCAGCCCAGAUACCUCUG  
((((((((((...((((((&.....)))))))).))))). -27.20  
>ENSMUSG00000024764 hs-mir-202 1556 1563  
AGAGGUUAUAGCGCAUGGGAAGA&GGUCUGCUUUUGUCUGGCUUGCUAGCUUCUGGGCUAUACCUCUG  
((((((((((...((((((&.....)))))))).))))). -28.70  
>ENSMUSG00000024764 hs-mir-202 1682 1689  
AGAGGUUAUAGCGCAUGGGAAGA&CCUAAUCUCUGUCUGUCUAGAUAUGAAUCUCUGAUACCUCC  
.((((((((((...((((((&.....)))))))).))))). -20.40  
mir-202 ENSRNOG00000021179 4118 nt UTR 6 hits 744 1458 1562 2279  
3050 3172



>ENSRNOG00000021179 hs-mir-202 744 751  
AGAGGUUAUAGCGCAUGGGAAGA&GUCCUGCCUGUUCUCACACCUCUUCUCAGUCCAGAUACCUCUG  
((((((((((...((((((&.....)))))))).))))). -25.30  
>ENSRNOG00000021179 hs-mir-202 1458 1465  
AGAGGUUAUAGCGCAUGGGAAGA&GGUCUACCUUUGUCUGGCUUGCUAGCUUCGGGGCUAUACCUCUG  
((((((((((...((((((&.....)))))))).))))). -28.40  
>ENSRNOG00000021179 hs-mir-202 1562 1569  
AGAGGUUAUAGCGCAUGGGAAGA&ACAUGCUUGCUCUGUCUAGAUAUGAAUCUCUGAUACCUCC  
.((((((((((...((((((&.....)))))))).))))). -20.40  
>ENSRNOG00000021179 hs-mir-202 2279 2286  
AGAGGUUAUAGCGCAUGGGAAGA&GUCCUGCCUGUUCUCACACCUCUUCUCAGUCCAGAUACCUCUG  
((((((((((...((((((&.....)))))))).))))). -25.30  
>ENSRNOG00000021179 hs-mir-202 3050 3057  
AGAGGUUAUAGCGCAUGGGAAGA&UGUCUGGCUUGCUAGCUUCGGGGGGGGGGGGGGCUAUACCUCUG  
((((((((((...((((((&.....)))))))).))))). -27.03  
>ENSRNOG00000021179 hs-mir-202 3172 3179  
AGAGGUUAUAGCGCAUGGGAAGA&CUUUCUGAUCUCUGUCUAGAUAUGAAUCUCUGAUACCUCC  
.((((((((((...((((((&.....)))))))).))))). -20.40

miRNA: mir-202  
Human predicted target: ENSG00000113742  
Mouse predicted target: ENSMUSG00000020300  
Rat predicted target: ENSRNOG00000020689  
mir-202 ENSG00000113742 6172 nt UTR 2 hits 1019 2216  
-----1-----  
-----1-----  
-----

>ENSG00000113742 hs-mir-202 1019 1026  
AGAGGUUAUAGCGCAUGGGAAGA&CAUUUUGACGUUAAAAACAACAACAGAUUCUAGAGAUACCUCA  
.((((((((((...((((((&.....)))))))).))))). -17.20  
>ENSG00000113742 hs-mir-202 2216 2223  
AGAGGUUAUAGCGCAUGGGAAGA&GCACACUUUUCACUGACGGGAUAUCUCUUUAUGCAAUACCUCA  
.((((((((((...((((((&.....)))))))).))))). -22.40

mir-202 ENSMUSG00000020300 2665 nt UTR 2 hits 944 2150  
-----1-----  
-----1-----  
>ENSMUSG00000020300 hs-mir-202 944 951  
AGAGGUUAUAGCGCAUGGGAAGA&UCUCCAUUUUGACAUUAAAAACAACGUAUCUAGACAUACCUCA  
.((((((((((..((..((..(((&))))).)))).)))).)))). -15.55  
>ENSMUSG00000020300 hs-mir-202 2150 2157  
AGAGGUUAUAGCGCAUGGGAAGA&GCACACUUUUCACUGACGGGAUAUCUCUUUAUGCAAUACCUCA  
.((((((((((..(((((..(((&.....))))).)))).)))).)))). -22.40  
mir-202 ENSRNOG00000020689 2667 nt UTR 2 hits 947 2117  
-----1-----  
-----1-----  
>ENSRNOG00000020689 hs-mir-202 947 954  
AGAGGUUAUAGCGCAUGGGAAGA&UCUCCAUUUUGACAUUAAAAACAACACAUGUAGACAUACCUCA  
.((((((((((..(((((..(((&))))).)))).)))).)))). -19.19  
>ENSRNOG00000020689 hs-mir-202 2117 2124  
AGAGGUUAUAGCGCAUGGGAAGA&GCACACUUUUCACUGACGGGAUAUCUCUUUAUGCAAUACCUCA  
.((((((((((..(((((..(((&.....))))).)))).)))).)))). -22.40

miRNA: mir-202  
Human predicted target: ENSG00000134323  
Mouse predicted target: ENSMUSG00000037169  
Rat predicted target: ENSRNOG00000006308  
Hs Gene description: N-MYC PROTO-ONCOGENE PROTEIN.  
[Source:SWISSPROT;Acc:P04198]

mir-202 ENSG00000134323 2907 nt UTR 2 hits 505 869  
-----1-----1-----  
-----1-----  
>ENSG00000134323 hs-mir-202 505 512  
AGAGGUUAUAGCGCAUGGGAAGA&AUUAGACUGGAAGUUCAUACCUAAGUACUGUAAUAAUACCUCA  
.((((((((((..(((((..((..&.....))))).)))).)))).)))). -19.80  
>ENSG00000134323 hs-mir-202 869 876  
AGAGGUUAUAGCGCAUGGGAAGA&UAUAUAUUUAGUGCUGCAUCUUUAUAGCACUUUGAAAUACCUCA  
.((((((((((..(((((..((..&.....))))).)))).)))).)))). -21.20  
mir-202 ENSMUSG00000037169 2911 nt UTR 2 hits 500 871  
-----1-----1-----  
-----1-----  
>ENSMUSG00000037169 hs-mir-202 500 507  
AGAGGUUAUAGCGCAUGGGAAGA&AUUAGACUGGAAGUUCACACCUAAGUACUGUAAAGAAUACCUCA  
.((((((((((..(((((..((..&.....))))).)))).)))).)))). -19.80  
>ENSMUSG00000037169 hs-mir-202 871 878  
AGAGGUUAUAGCGCAUGGGAAGA&UAUAUAUUUAGUGCUGCACC UUAGAGCACUUUGAAAUACCUCA  
.((((((((((..(((((..((..&.....))))).)))).)))).)))). -19.20  
mir-202 ENSRNOG00000006308 2915 nt UTR 4 hits 495 874 1425 1804  
-----1-----1-----1-----1-----  
-----1-----  
>ENSRNOG00000006308 hs-mir-202 495 502

AGAGGUUAUAGCGCAUGGGAAGA&AUUAGACUGGAAGUUCACACCUAAGUACUGUAAGAAUACCUCA  
.((((((((((..(((((.....&.....)))))).)))).)))). -19.80  
>ENSRNOG00000006308 hs-mir-202 874 881  
AGAGGUUAUAGCGCAUGGGAAGA&UAUAUAUUUAGUGCUGCACCUUAGAGCACUUUGAAAUACCUCA  
.((((((((((..(((((.....&.....)))))).)))).)))). -19.20  
>ENSRNOG00000006308 hs-mir-202 1425 1432  
AGAGGUUAUAGCGCAUGGGAAGA&AUUAGACUGGAAGUUCACACCUAAGUACUGUAAGAAUACCUCA  
.((((((((((..(((((.....&.....)))))).)))).)))). -19.80  
>ENSRNOG00000006308 hs-mir-202 1804 1811  
AGAGGUUAUAGCGCAUGGGAAGA&UAUAUAUUUAGUGCUGCACCUUAGAGCACUUUGAAAUACCUCA  
.((((((((((..(((((.....&.....)))))).)))).)))). -19.20

miRNA: mir-202

Human predicted target: ENSG00000164062

Mouse predicted target: ENSMUSG00000032590

Rat predicted target: ENSRNOG00000019603

Hs Gene description: ACYLAMINO-ACID-RELEASING ENZYME (EC 3.4.19.1) (ACYL-  
PEPTIDE HYDROLASE) (APH) (ACYLAMINOACYL-PEPTIDASE) (DNF15S2 PROTEIN).

[Source:SWISSPROT;Acc:P13798] NM\_001640

mir-202 ENSG00000164062 2000 nt UTR 2 hits 1392 1514

-----1-----  
-----

>ENSG00000164062 hs-mir-202 1392 1399  
AGAGGUUAUAGCGCAUGGGAAGA&CCCAGCCCACCUCACACCCUCCCAGGUUGUCCACAUACCUCUC  
((((((((((..(((((.....&.....)))))).)))).)))). -22.40  
>ENSG00000164062 hs-mir-202 1514 1521  
AGAGGUUAUAGCGCAUGGGAAGA&UCCAUGCUGUGGGUUCUGGAACAGGGUGCCCAACCAUACCUCA  
.((((((((((..(((((.....&.....)))))).)))).)))). -22.37  
mir-202 ENSMUSG00000032590 2159 nt UTR 2 hits 1361 1483

-----1-----  
-----

>ENSMUSG00000032590 hs-mir-202 1361 1368  
AGAGGUUAUAGCGCAUGGGAAGA&GCUAGCCCUGCCUCACACCCUCUCAACACAUCCACAUACCUCUC  
((((((((((..(((((.....&.....)))))).)))).)))). -20.64  
>ENSMUSG00000032590 hs-mir-202 1483 1490  
AGAGGUUAUAGCGCAUGGGAAGA&UCCAGGCUGUGGGUUCUGGUUAAUUGUACCCAACCAUACCUCG  
.((((((((((..(((((.....&.....)))))).)))).)))). -19.50  
mir-202 ENSRNOG00000019603 2160 nt UTR 2 hits 1313 1435

-----1-----  
-----

>ENSRNOG00000019603 hs-mir-202 1313 1320  
AGAGGUUAUAGCGCAUGGGAAGA&GCCAGCCCUGCCUCACACCCUCUCAACUUGUCCACAUACCUCUC  
((((((((((..(((((.....&.....)))))).)))).)))). -20.64  
>ENSRNOG00000019603 hs-mir-202 1435 1442  
AGAGGUUAUAGCGCAUGGGAAGA&UCCAGGCUGUGGGUUCUGGUUAAUUGUACCCAACCAUACCUCA  
.((((((((((..(((((.....&.....)))))).)))).)))). -19.50

miRNA: mir-203

Human predicted target: ENSG00000108523

Mouse predicted target: ENSMUSG00000040746

Rat predicted target: ENSRNOG00000003879

Hs Gene description: NM\_015528

mir-203 ENSG00000108523 2210 nt UTR 2 hits 923 1724

-----1-----1-----

>ENSG00000108523 hs-mir-203 923 930
UGAAAUGUUUAGGACCACUAGA&UACUGGGAACGCCGAAGGUGGGAGGCCAUUUCAUAACAUAUUCU
(((((((((((((.....&.....)))))).....)))))))). -19.20

>ENSG00000108523 hs-mir-203 1724 1731
UGAAAUGUUUAGGACCACUAGA&UCCCAUCCUGCAGCAGUGAGUCCCGGAUCACCGAACAUUUCU
(((((((((((((.....&.....)))))).....)))))))). -21.10

mir-203 ENSMUSG00000040746 2198 nt UTR 2 hits 949 1685

-----1-----1-----

>ENSMUSG00000040746 hs-mir-203 949 956
UGAAAUGUUUAGGACCACUAGA&UACUGGGAACGCCGAGGUGAGAGGCCAUUUCAUAACAUAUUCU
(((((((((((((.....&.....)))))).....)))))))). -15.30

>ENSMUSG00000040746 hs-mir-203 1685 1692
UGAAAUGUUUAGGACCACUAGA&UCCCGUCUUGCAGCAGUGAGUCCCGGAUCACAGAACAUAUUCU
(((((((((((((.....&.....)))))).....)))))))). -21.10

mir-203 ENSRNOG00000003879 2200 nt UTR 3 hits 86 860 1552

---1-----1-----1-----

>ENSRNOG00000003879 hs-mir-203 86 93
UGAAAUGUUUAGGACCACUAGA&UCCAGUCUAAUAAGCUGAGGAUGAGGGGAUAGGGGACAUAUUCU
(((((((((((((.....&.....)))))).....)))))))). -15.60

>ENSRNOG00000003879 hs-mir-203 860 867
UGAAAUGUUUAGGACCACUAGA&UACUGGGAACGCCGAGGUGAGAGGCCAUUUCAUAACAUAUUCU
(((((((((((((.....&.....)))))).....)))))))). -15.30

>ENSRNOG00000003879 hs-mir-203 1552 1559
UGAAAUGUUUAGGACCACUAGA&UCCCGUCUUGCAGCAGUGAGUCCCGGAUCACAGAACAUAUUCU
(((((((((((((.....&.....)))))).....)))))))). -21.10

miRNA: mir-203

Human predicted target: ENSG00000122641

Mouse predicted target: ENSMUSG00000041324

Rat predicted target: ENSRNOG00000014320

Hs Gene description: INHIBIN BETA A CHAIN PRECURSOR (ACTIVIN BETA-A CHAIN) (ERYTHROID DIFFERENTIATION PROTEIN) (EDF). [Source:SWISSPROT;Acc:P08476]

NM\_002192

mir-203 ENSG00000122641 2458 nt UTR 3 hits 720 897 1311

-----1-----1-----1-----

```

>ENSG00000122641 hs-mir-203      720      727
UGAAAUGUUUAGGACCACUAGA&AGAAUGAAAGAUCAAGGAAAAAAGAAUACCAAGUUACAUUUCGU
((((((((((...((.....&.....)))))))))). -12.70
>ENSG00000122641 hs-mir-203      897      904
UGAAAUGUUUAGGACCACUAGA&UGAAAGGAAUAUGUUUGUCCAUCUGUUGGAUCCAACAUAUUCU
.((((((((((...((.....&.....)))))))))). -24.00
>ENSG00000122641 hs-mir-203     1311     1318
UGAAAUGUUUAGGACCACUAGA&UUGGUUUUUGACUCCUUUACAUCAUGAAACAGGACAUUUCAU
((((((((((...((.....&.....)))))))))). -16.91
mir-203      ENSMUSG00000041324    2082 nt UTR      4 hits 878 1056 1466 1749
-----1-----1-----1-----1-----

```

```

>ENSMUSG00000041324 hs-mir-203     878     885
UGAAAUGUUUAGGACCACUAGA&AGAAUGAAAGACCAAGGGAAGAAGAAUACCAAGUUACAUUUCGU
((((((((((...((.....&.....)))))))))). -12.70
>ENSMUSG00000041324 hs-mir-203    1056    1063
UGAAAUGUUUAGGACCACUAGA&UGAAAGGAAUAUGUUUGUCCAUCUGUUGGAUUCAAACAUAUUCU
.((((((((((...((.....&.....)))))))))). -21.10
>ENSMUSG00000041324 hs-mir-203    1466    1473
UGAAAUGUUUAGGACCACUAGA&UUUGGGUUUUGACUCUUUACAUCAUGAAACAGGACAUUUCAU
((((((((((...((.....&.....)))))))))). -16.40
>ENSMUSG00000041324 hs-mir-203    1749    1756
UGAAAUGUUUAGGACCACUAGA&UUUUUUUUCUUGCUCUUUACUCUGUAGUACGUGGGUACAUAUUCAA
((((((((((...((.....&.....)))))))))). -16.60
mir-203      ENSRNOG00000014320    2110 nt UTR      3 hits 771 948 1631
-----1-----1-----1-----

```

```

>ENSRNOG00000014320 hs-mir-203     771     778
UGAAAUGUUUAGGACCACUAGA&AGAGUGAAAGACCAAGGUAAAAAAGAAUACCAAGUUACAUUUCGU
((((((((((...((.....&.....)))))))))). -13.10
>ENSRNOG00000014320 hs-mir-203     948     955
UGAAAUGUUUAGGACCACUAGA&UGAAAGGAAUAUGUUUGUCCAUCUGUUGGAUUCAAACAUAUUCU
.((((((((((...((.....&.....)))))))))). -21.10
>ENSRNOG00000014320 hs-mir-203    1631    1638
UGAAAUGUUUAGGACCACUAGA&AUUUUUUUCUUGCUCUUUACUCUGUAUUACGUGGGUACAUAUUCAA
((((((((((...((.....&.....)))))))))). -16.60

```

```

miRNA: mir-203
Human predicted target: ENSG00000125347
Mouse predicted target: ENSMUSG00000018899
Rat predicted target: ENSRNOG00000008144
Hs Gene description: INTERFERON REGULATORY FACTOR 1 (IRF-1).
[Source:SWISSPROT;Acc:P10914] NM_002198
mir-203      ENSG00000125347    2868 nt UTR      2 hits 613 639
-----1-----
>ENSG00000125347 hs-mir-203      613      620

```

UGAAAUGUUUAGGACCACUAGA&AAAAAACUUGGCACUUUUUCGUGUGGAUCUUGCCACAUUUCU  
.(((((((((((((.....&.....)))))))).))))). -20.00  
>ENSG00000125347 hs-mir-203 639 646

UGAAAUGUUUAGGACCACUAGA&GAUCUUGCCACAUUUCUGAUCAGAGGUGUACACUAACAUUUCC  
.(((((((((((((.....&.....)))))))).))))). -16.50  
mir-203 ENSMUSG00000018899 2875 nt UTR 2 hits 612 638

-----11-----  
-----

>ENSMUSG00000018899 hs-mir-203 612 619  
UGAAAUGUUUAGGACCACUAGA&GAAAAAAAAAUGGCACUUUCUCUGUGGACUUUGCCACAUUUCU  
.(((((((((((((.....&.....)))))))).))))). -19.00  
>ENSMUSG00000018899 hs-mir-203 638 645

UGAAAUGUUUAGGACCACUAGA&GACUUUGCCACAUUUCUGAUCAGAGGUGUACACUAACAUUUCU  
.(((((((((((((.....&.....)))))))).))))). -16.90  
mir-203 ENSRNOG00000008144 2871 nt UTR 2 hits 614 640

-----11-----  
-----

>ENSRNOG00000008144 hs-mir-203 614 621  
UGAAAUGUUUAGGACCACUAGA&GAAAAAAAAAUGGCACUUUCUCUGUGGACUUUGCCACAUUUCU  
.(((((((((((((.....&.....)))))))).))))). -19.00  
>ENSRNOG00000008144 hs-mir-203 640 647

UGAAAUGUUUAGGACCACUAGA&GACUUUGCCACAUUUCUGAUCAGAAGUGUACACUAACAUUUCU  
.(((((((((((((.....&.....)))))))).))))). -16.90

miRNA: mir-203

- Human predicted target: ENSG00000155744
- Mouse predicted target: ENSMUSG00000038174
- Rat predicted target: ENSRNOG00000011327
- Rat predicted target: ENSRNOG00000012078
- Hs Gene description: NM\_173822

mir-203 ENSG00000155744 4800 nt UTR 3 hits 44 1197 2945  
-1-----1-----  
-----1-----  
-----

>ENSG00000155744 hs-mir-203 44 51  
UGAAAUGUUUAGGACCACUAGA&UCCUCCUCAUCUUUCUGCUUACCUUUUAAACUGAACAUUUCAU  
(((((((((((((.....&.....)))))))).))))). -18.90  
>ENSG00000155744 hs-mir-203 1197 1204

UGAAAUGUUUAGGACCACUAGA&AACACUGAUACUCAAUGUGACACAUUUUUUAUAGAACAUUUCU  
.(((((((((((((.....&.....)))))))).))))). -13.50  
>ENSG00000155744 hs-mir-203 2945 2952

UGAAAUGUUUAGGACCACUAGA&UCUUUUAGGUGAUGUGAAUUGACCUCAGUGAAGAAACAUUUCAU  
(((((((((((((.....&.....)))))))).))))). -17.40  
mir-203 ENSMUSG00000038174 2575 nt UTR 3 hits 38 741 1165

-1-----1-----1-----  
-----

>ENSMUSG00000038174 hs-mir-203 38 45



UGAAAUGUUUAGGACCACUAGA&CUGAUGCCCUUGUUCUGCUAACCUUCUACACUGAACAUUUCAU  
((((((((((((.....(((&.....)))))))).))))). -18.70  
>ENSMUSG00000038174 hs-mir-203 741 748  
UGAAAUGUUUAGGACCACUAGA&CAACAGGUCUCCCUCCUCCACAAGGACUUAAGGACAUUUCU  
((((((((((((.....&.....)))))))).))))). -18.34  
>ENSMUSG00000038174 hs-mir-203 1165 1172  
UGAAAUGUUUAGGACCACUAGA&AACACUGAUGCUUCUAUGUGACACAUUUGUAUAGAACAUCUUCU  
((((((((((((.....(((&.....)))))))).))))). -16.30  
mir-203 ENSRNOG00000011327 2572 nt UTR 3 hits 42 745 1166  
-1-----1-----1-----

>ENSRNOG00000011327 hs-mir-203 42 49  
UGAAAUGUUUAGGACCACUAGA&UGGUGUCCCUUGUUCUGCUUCCCUUCUACACUGAACAUUUCAU  
((((((((((((.....(((&.....)))))))).))))). -19.75  
>ENSRNOG00000011327 hs-mir-203 745 752  
UGAAAUGUUUAGGACCACUAGA&CAACAGGUCUCCCUCCUCCACAAGGACUUAAGGACAUUUCU  
((((((((((((.....&.....)))))))).))))). -17.94  
>ENSRNOG00000011327 hs-mir-203 1166 1173  
UGAAAUGUUUAGGACCACUAGA&AACACUGAUGCUUCAUGUGACACAUUUGUAUAGAACAUCUUCU  
((((((((((((.....((.....&.....)))))))).))))). -13.70  
mir-203 ENSRNOG00000012078 2572 nt UTR 3 hits 42 745 1166  
-1-----1-----1-----

>ENSRNOG00000012078 hs-mir-203 42 49  
UGAAAUGUUUAGGACCACUAGA&UGGUGUCCCUUGUUCUGCUUCCCUUCUACACUGAACAUUUCAU  
((((((((((((.....(((&.....)))))))).))))). -19.75  
>ENSRNOG00000012078 hs-mir-203 745 752  
UGAAAUGUUUAGGACCACUAGA&CAACAGGUCUCCCUCCUCCACAAGGACUUAAGGACAUUUCU  
((((((((((((.....&.....)))))))).))))). -17.94  
>ENSRNOG00000012078 hs-mir-203 1166 1173  
UGAAAUGUUUAGGACCACUAGA&AACACUGAUGCUUCAUGUGACACAUUUGUAUAGAACAUCUUCU  
((((((((((((.....((.....&.....)))))))).))))). -13.70

miRNA: mir-203  
Human predicted target: ENSG00000162702  
Mouse predicted target: ENSMUSG00000041483  
Rat predicted target: ENSRNOG00000009099  
Hs Gene description: ZINC FINGER PROTEIN 281 (ZINC FINGER DNA BINDING  
PROTEIN 99) (TRANSCRIPTION FACTOR ZBP-99) (GC-BOX-BINDING ZINC FINGER  
PROTEIN 1). [Source:SWISSPROT;Acc:Q9Y2X9] NM\_012482  
mir-203 ENSG00000162702 2316 nt UTR 4 hits 456 486 517 547  
-----1111-----

>ENSG00000162702 hs-mir-203 456 463  
UGAAAUGUUUAGGACCACUAGA&GUAUUGGAAUAUCCAAUUUACAGAUAGUAUGAUUAUACAUCUUCU  
((((((((.....((.....&.....)))))))).))))). -14.60  
>ENSG00000162702 hs-mir-203 486 493

```

UGAAAUGUUUAGGACCACUAGA&GAUAUACAUUUCAUCAUUUAAGUAAGGGAUCGAAAACAUUUCAA
((((((((((..(((..(....&.....)))))))).)))). -18.20
>ENSG00000162702 hs-mir-203      517      524
UGAAAUGUUUAGGACCACUAGA&GAAAACAUUUCAAAUUGCUCUAUCUGGGCUGAUAGACAUUUCGU
((((((((((.....((((&.....)))))))).)))). -20.10
>ENSG00000162702 hs-mir-203      547      554
UGAAAUGUUUAGGACCACUAGA&GAUAGACAUUUCGUCAUUUUAAGUAAGGGAUCGAAGACAUUUCAA
((((((((((..(((..(....&.....)))))))).)))). -18.30
mir-203      ENSMUSG00000041483      2321 nt UTR      5 hits 481 512 548 578 2114
-----111-1-----
-----1-----
>ENSMUSG00000041483 hs-mir-203      481      488
UGAAAUGUUUAGGACCACUAGA&GUAUUGGAAUAUCCAAUUUACAAAUAGUAUGAUACACAUUUCGU
((((((((((..(.....(((..&.....)))))))).)))). -13.70
>ENSMUSG00000041483 hs-mir-203      512      519
UGAAAUGUUUAGGACCACUAGA&AUACACAUUUCGUUGUUUAAGUUAAGGGAUCUUAACAUUUCAG
((((((((((((((((((..(....&.....)))))))).)))). -24.00
>ENSMUSG00000041483 hs-mir-203      548      555
UGAAAUGUUUAGGACCACUAGA&CAUUUCAGAUUGCUCUUUCUGGGCUAAUAGAAUUAUACAUUUCAU
((((((((((((((((((..(((..(....&.....)))))))).)))). -16.10
>ENSMUSG00000041483 hs-mir-203      578      585
UGAAAUGUUUAGGACCACUAGA&AAUAUACAUUUCAUCAUUUAAGUAAGGGAUCGAAAACAUUUCAA
((((((((((((((((((..(((..(....&.....)))))))).)))). -18.20
>ENSMUSG00000041483 hs-mir-203      2114      2121
UGAAAUGUUUAGGACCACUAGA&UGAAGAAAGGAGAUUACACUAGUCUCUGUGGAUUACAUUUCAU
((((((((((.....(((..(....&.....)))))))).)))). -17.90
mir-203      ENSRNOG00000009099      2341 nt UTR      5 hits 482 513 549 579 2090
-----111-1-----
-----1-----
>ENSRNOG00000009099 hs-mir-203      482      489
UGAAAUGUUUAGGACCACUAGA&GUAUUGGAAUAUCCAAUUUACAAAUAGUAUGAUACACAUUUCAU
((((((((((..(.....(((..&.....)))))))).)))). -14.40
>ENSRNOG00000009099 hs-mir-203      513      520
UGAAAUGUUUAGGACCACUAGA&AUACACAUUUCAUUGUUUAAGUUAAGGGAUCUUAACAUUUCAA
((((((((((((((((((..(....&.....)))))))).)))). -24.00
>ENSRNOG00000009099 hs-mir-203      549      556
UGAAAUGUUUAGGACCACUAGA&CAUUUCAAAUUGCUCUUUCUGGGCUGAUAGAAUUAUACAUUUCAU
((((((((((((((((((..(((..(....&.....)))))))).)))). -16.20
>ENSRNOG00000009099 hs-mir-203      579      586
UGAAAUGUUUAGGACCACUAGA&AAUAUACAUUUCAUCAUUUAAGUAAGGGAUCGAAAACAUUUCAA
((((((((((((((((((..(((..(....&.....)))))))).)))). -18.20
>ENSRNOG00000009099 hs-mir-203      2090      2097
UGAAAUGUUUAGGACCACUAGA&UGAAGAAAGGAGAUUACACUAGUCUCUGUGGAUCACAUUUCGU
((((((((((.....((((((..(....&.....)))))))).)))). -17.80

```

miRNA: mir-204  
Human predicted target: ENSG00000004848

Mouse predicted target: ENSMUSG00000035277  
Rat predicted target: ENSRNOG0000003047  
Hs Gene description: HOMEBOX PROTEIN ARX (ARISTALESS RELATED HOMEBOX).

[Source:SWISSPROT;Acc:Q96QS3] NM\_139058

mir-204 ENSG00000004848 2495 nt UTR 3 hits 585 1134 1866

-----1-----1-----

1-----

>ENSG00000004848 hs-mir-204 585 592  
UUCCCUUUGUCAUCCUAUGCCUG&UUAUCAUACACCAACCAAGGUUUUUAUAUCAAAACCAAGGGAAA  
((((((((.....(((&.....))))).))))). -  
19.25

>ENSG00000004848 hs-mir-204 1134 1141  
UUCCCUUUGUCAUCCUAUGCCUG&UCCUGGCAGAGGCCCCUGGUUUGAAUCCGAUCCUCAAGGGAAAC  
((((((((.....(((&.....))))).))))). -  
24.30

>ENSG00000004848 hs-mir-204 1866 1873  
UUCCCUUUGUCAUCCUAUGCCUG&GGGCUGGGUCUCGCCGACGCUCCAGGGUGAUGGGAAAGGGAAAG  
((((((((.....(((&.....))))).))))). -  
26.85

mir-204 ENSMUSG00000035277 2648 nt UTR 2 hits 569 1793

-----1-----1-----

-----

>ENSMUSG00000035277 hs-mir-204 569 576  
UUCCCUUUGUCAUCCUAUGCCUG&UUAUCAUACAACAACCAAGGUUUUUAUAUCAAAACCAAGGGAAA  
((((((((.....(((&.....))))).))))). -  
19.25

>ENSMUSG00000035277 hs-mir-204 1793 1800  
UUCCCUUUGUCAUCCUAUGCCUG&GGGCUGGGUCUCGCCAAUGCUCUCCAGGGUGAUGGGAAAGGGAAAG  
((((((((.....(((&.....))))).))))). -  
26.85

mir-204 ENSRNOG0000003047 2000 nt UTR 2 hits 574 1798

-----1-----1-----

-----

>ENSRNOG0000003047 hs-mir-204 574 581  
UUCCCUUUGUCAUCCUAUGCCUG&UUAUCAUACACCAACCAAGGUUUUUAUAUCAAAACCAAGGGAAA  
((((((((.....(((&.....))))).))))). -  
19.25

>ENSRNOG0000003047 hs-mir-204 1798 1805  
UUCCCUUUGUCAUCCUAUGCCUG&GGGCUGGGUCUCGCCAAUGCUCUCCAGGGUGAUGGGAAAGGGAAAG  
((((((((.....(((&.....))))).))))). -  
26.85

miRNA: mir-204

Human predicted target: ENSG00000095321  
Mouse predicted target: ENSMUSG00000026853  
Rat predicted target: ENSRNOG00000018145

Hs Gene description: CARNITINE O-ACETYLTRANSFERASE (EC 2.3.1.7) (CARNITINE ACETYLASE) (CAT). [Source:SWISSPROT;Acc:P43155] NM\_144782

mir-204 ENSG00000095321 2605 nt UTR 2 hits 1496 1713

-----1-----1-----  
-----

>ENSG00000095321 hs-mir-204 1496 1503  
UUCCCUUUGUCAUCCUAUGCCUG&ACAUCCACCUAGGUGUCCCGCAGCAGGGGGUGGAGAAAGGGAU  
.(((((((((((((.....)))))).)))))). -27.20

>ENSG00000095321 hs-mir-204 1713 1720  
UUCCCUUUGUCAUCCUAUGCCUG&AGCCCAGACAAUGGAGGAAUGGAUGGAGGCAGAGAAAGGGAU  
.(((((((((((((.....)))))).)))))). -23.40

mir-204 ENSMUSG00000026853 2636 nt UTR 4 hits 461 621 1947 2403  
-----1-----1-----

---1-----1-----

>ENSMUSG00000026853 hs-mir-204 461 468  
UUCCCUUUGUCAUCCUAUGCCUG&ACCUCCCCAUAGCUAAGGGUUAAGUCUUGUAGCCAAAGGGAC  
.(((((((((((((.....)))))).)))))). -19.70

>ENSMUSG00000026853 hs-mir-204 621 628  
UUCCCUUUGUCAUCCUAUGCCUG&AUGGUGUAUAAUGUGAUUAUGCCAGGUGAUCAAUAAAGGGAAG  
(((((((((((((.....)))))).)))))). -  
22.50

>ENSMUSG00000026853 hs-mir-204 1947 1954  
UUCCCUUUGUCAUCCUAUGCCUG&UGUUGGGGUCAUUCAAAUCCUCACUUUGGGGGGCUAAAGGGAAC  
(((((((((((((.....)))))).)))))). -  
22.37

>ENSMUSG00000026853 hs-mir-204 2403 2410  
UUCCCUUUGUCAUCCUAUGCCUG&CAGCUGUGGCAGGACAACCUGGAGAGAGUCCCUUAAAAGGGAC  
.(((((((((((((.....)))))).)))))). -20.10

mir-204 ENSRNOG00000018145 3194 nt UTR 2 hits 554 1625  
-----1-----1-----

-----

>ENSRNOG00000018145 hs-mir-204 554 561  
UUCCCUUUGUCAUCCUAUGCCUG&AUGGUUGCAUAAUGUGAUUCUGCCAGGCGAUCAAUAAAGGGAAG  
(((((((((((((.....)))))).)))))). -  
23.90

>ENSRNOG00000018145 hs-mir-204 1625 1632  
UUCCCUUUGUCAUCCUAUGCCUG&AUGGUUGCAUAAUGUGAUUCUGCCAGGCGAUCAAUAAAGGGAAG  
(((((((((((((.....)))))).)))))). -  
23.90

miRNA: mir-204

Human predicted target: ENSG00000116273

Mouse predicted target: ENSMUSG00000047777

Rat predicted target: ENSRNOG00000009046

Hs Gene description: NM\_153812

mir-204 ENSG00000116273 4360 nt UTR 3 hits 628 657 1398

-----11-----1-----  
-----  
-----

>ENSG00000116273 hs-mir-204 628 635  
UUCCCUUUGUCAUCCUAUGCCUG&CAGCUGGUGGUUCUAGGUUCCUUCUGUUUGUAAAAGGGAC  
.((((((((((..((..(((..&.....))))..))))..))))..))))..)))).. -19.92

>ENSG00000116273 hs-mir-204 657 664  
UUCCCUUUGUCAUCCUAUGCCUG&UUGUUAAAAGGGACAAUGUGGCCACUUCUCUGUGGAAAGGGAGU  
((((((((((..(((..&.....))))..))))..))))..))))..)))).. -  
19.10

>ENSG00000116273 hs-mir-204 1398 1405  
UUCCCUUUGUCAUCCUAUGCCUG&UAGGUUUUCAUAAGCAUUGUUUCUUUAAGGCAUGGAAAGGGGAAAG  
((((((((((.....(((..&.....))))..))))..))))..))))..)))).. -  
24.80

mir-204 ENSMUSG00000047777 3921 nt UTR 2 hits 534 2020  
-----1-----  
-----1-----  
-----

>ENSMUSG00000047777 hs-mir-204 534 541  
UUCCCUUUGUCAUCCUAUGCCUG&GGGGCAGUGGUUCUUGGGUUUUCACGGUUGGUUUAAAAGGGAC  
.((((((((((((((..(((..&..))))..))))..))))..))))..)))).. -21.75

>ENSMUSG00000047777 hs-mir-204 2020 2027  
UUCCCUUUGUCAUCCUAUGCCUG&AGAUGGCGGAUCUGGCAGAGCUGAACUGAUGAUGAAAAGGGAC  
.((((((((((((((((((..(((..&.....))))..))))..))))..))))..)))).. -24.51  
mir-204 ENSRNOG00000009046 3640 nt UTR 4 hits 478 1888 3455 3465

-----1-----  
-----2-----

>ENSRNOG00000009046 hs-mir-204 478 485  
UUCCCUUUGUCAUCCUAUGCCUG&GGGGUGAGUGGUGGUUCUUGGUUUUUCACUGUUAAAAGGGAC  
.((((((((((((((((((..(((..&..))))..))))..))))..))))..)))).. -21.25

>ENSRNOG00000009046 hs-mir-204 1888 1895  
UUCCCUUUGUCAUCCUAUGCCUG&GGGGUGAGUGGUGGUUCUUGGUUUUUCACUGUUAAAAGGGAC  
.((((((((((((((((((..(((..&..))))..))))..))))..))))..)))).. -21.25

>ENSRNOG00000009046 hs-mir-204 3455 3462  
UUCCCUUUGUCAUCCUAUGCCUG&GCAAAGCUGACUGAUAAUGGCUUUUAGCACGAUGCAAAGGGAC  
.((((((((((((((((((..(((..&.....))))..))))..))))..))))..)))).. -24.50

>ENSRNOG00000009046 hs-mir-204 3465 3472  
UUCCCUUUGUCAUCCUAUGCCUG&CUGAUAAUGGCUUUUAGCACGAUGCAAAGGGACCAAAGGGAC  
.((((((((((((((((((..(((..&.....))))..))))..))))..))))..)))).. -24.00

miRNA: mir-204  
Human predicted target: ENSG00000119771  
Mouse predicted target: ENSMUSG00000020627  
Rat predicted target: ENSRNOG00000005371  
Hs Gene description: NM\_025067  
mir-204 ENSG00000119771 3947 nt UTR 3 hits 1216 1252 2139

-----1-1-----  
-----1-----  
-----

>ENSG00000119771 hs-mir-204 1216 1223  
UUCCCUUUGUCAUCCUAUGCCUG&CAGAACCACUCUUCUUGUCACAUACGAACCUGAGAAAAGGGAAG  
(((((((((((((.....&.....)))))))).)))). -  
18.80  
>ENSG00000119771 hs-mir-204 1252 1259  
UUCCCUUUGUCAUCCUAUGCCUG&AAGGGAAGCCAGGAGGGAGGUCACACCAUGGCUCAAAAGGGAAG  
(((((((((((((((.....&.....)))))))).)))). -  
24.51  
>ENSG00000119771 hs-mir-204 2139 2146  
UUCCCUUUGUCAUCCUAUGCCUG&UGAAAAGCCAAGAAGACAAUUGAAGGUAAAAGUUGAAAGGGAC  
(((((((((((((.....&.....)))))))).)))). -18.10  
mir-204 ENSMUSG00000020627 2000 nt UTR 2 hits 1195 1402  
-----1-----1-----  
-----

>ENSMUSG00000020627 hs-mir-204 1195 1202  
UUCCCUUUGUCAUCCUAUGCCUG&CUCCAUGAGGUAAAAGCUGACGACCCAGGCCCCGGGAAAGGGAC  
(((((((((((((.....&.....)))))))).)))). -22.50  
>ENSMUSG00000020627 hs-mir-204 1402 1409  
UUCCCUUUGUCAUCCUAUGCCUG&CUCUUCUUGUUGCCUUCUGCAUAGUAACCUGAGAAAAGGGAAG  
(((((((((((((.....&.....)))))))).)))). -  
22.70  
mir-204 ENSRNOG00000005371 2000 nt UTR 2 hits 1103 1311  
-----1-----1-----  
-----

>ENSRNOG00000005371 hs-mir-204 1103 1110  
UUCCCUUUGUCAUCCUAUGCCUG&CUCUGUGAGGUAAAAGCUGAGGACCCAGGCCCCAGGAAAGGGAC  
(((((((((((((.....&.....)))))))).)))). -22.20  
>ENSRNOG00000005371 hs-mir-204 1311 1318  
UUCCCUUUGUCAUCCUAUGCCUG&CUCUUCUUGUUGCCUCGUUGCAUAGUAACCUGAGAAAAGGGAAG  
(((((((((((((.....&.....)))))))).)))). -  
22.70

miRNA: mir-204  
Human predicted target: ENSG00000146826  
Mouse predicted target: ENSMUSG00000036948  
Rat predicted target: ENSRNOG00000001376  
Hs Gene description: NM\_018275  
mir-204 ENSG00000146826 2591 nt UTR 2 hits 851 1364  
-----1-----1-----  
-----

>ENSG00000146826 hs-mir-204 851 858  
UUCCCUUUGUCAUCCUAUGCCUG&AUCAGACUCAUGUUUAUUAGGGAGUGAGGGAGCACAAAGGGAGG  
(((((((((((((.....&.....)))))))).)))). -  
27.80

>ENSG00000146826 hs-mir-204 1364 1371  
UUCCCUUUGUCAUCCUAUGCCUG&CCUUCUCAUUCACAAUUCUGAUACCAGGGAGUCCCAAAGGGAGG  
((((((((((...(((.....&.....)))))))).))))). -  
21.90

mir-204 ENSMUSG00000036948 2583 nt UTR 2 hits 393 1483  
-----1-----1-----  
-----

>ENSMUSG00000036948 hs-mir-204 393 400  
UUCCCUUUGUCAUCCUAUGCCUG&CACCCGCAGGGCUGAGAUUAGAGGGUGGUAGUGGUAAGGGAC  
((((((((((...(((.....&.....)))))))).))))). -24.10

>ENSMUSG00000036948 hs-mir-204 1483 1490  
UUCCCUUUGUCAUCCUAUGCCUG&CCACCAAAGGCAGGAGCUCACCAGACAGGCGUUUGAAAGGGAU  
((((((((((...(((.....&.....)))))))).))))). -22.90  
mir-204 ENSRNOG00000001376 4714 nt UTR 2 hits 2519 3626

-----1-----1-----  
-----

>ENSRNOG00000001376 hs-mir-204 2519 2526  
UUCCCUUUGUCAUCCUAUGCCUG&CACCUACAGGGCCAAGAUUAGAGGGUGGUAGUGGUAAGGGAC  
((((((((((...(((.....&.....)))))))).))))). -23.30

>ENSRNOG00000001376 hs-mir-204 3626 3633  
UUCCCUUUGUCAUCCUAUGCCUG&CCAACAAAGGCAGGAGCUCACCAGACAGGCGCUUGAAAGGGAU  
((((((((((...(((.....&.....)))))))).))))). -21.30

miRNA: mir-204  
Human predicted target: ENSG00000157540  
Mouse predicted target: ENSMUSG00000022897  
Rat predicted target: ENSRNOG00000001662  
Hs Gene description: DUAL-SPECIFICITY TYROSINE-PHOSPHORYLATION REGULATED  
KINASE 1A (EC 2.7.1.-) (PROTEIN KINASE MINIBRAIN HOMOLOG) (MNBH) (HP86)  
(DUAL SPECIFICITY YAK1-RELATED KINASE). [Source:SWISSPROT;Acc:Q13627]

NM\_101395  
mir-204 ENSG00000157540 4643 nt UTR 3 hits 159 575 1550  
-----1-----1-----1-----  
-----

>ENSG00000157540 hs-mir-204 159 166  
UUCCCUUUGUCAUCCUAUGCCUG&CAAAGCUGAUUUUUUUUUUAACUUGAAAAGAUUGCAAAGGGAC  
((((((((((...(((.....&.....)))))))).))))). -20.50

>ENSG00000157540 hs-mir-204 575 582  
UUCCCUUUGUCAUCCUAUGCCUG&CUCCAGCUUCCACAAACACCAUCUUCAGCUGUAUGAAAGGGAC  
((((((((((...(((.....&.....)))))))).))))). -14.61

>ENSG00000157540 hs-mir-204 1550 1557  
UUCCCUUUGUCAUCCUAUGCCUG&UGUUACAUCUAAGUGUGUUCAGGCUUCUGAAGGUAAGGGAC  
((((((((((...(((.....&.....)))))))).))))). -26.00  
mir-204 ENSMUSG00000022897 4862 nt UTR 4 hits 162 570 1541 2790

-----1-----1-----1-----  
-----1-----  
-----

>ENSMUSG00000022897 hs-mir-204 162 169  
UUCCCUUUGUCAUCCUAUGCCUG&AAAGCUGACUUUUUUUUUAACUUGAAAAGAUUGCAAAGGGAC  
.((((((((((.(.....&.....)))))))). -20.50  
>ENSMUSG00000022897 hs-mir-204 570 577  
UUCCCUUUGUCAUCCUAUGCCUG&CUCUAGCACACACAAACAUCAUCUUCAGCUGUGUGAAAGGGAC  
.(((((((.(.(.(.(.(((&.....))))).).)))))))). -15.00  
>ENSMUSG00000022897 hs-mir-204 1541 1548  
UUCCCUUUGUCAUCCUAUGCCUG&UGUCACAUUCUAAAUGUGUUCAGGCUUCUGAAGGGAAAGGGAC  
.((((((((((.(.(.(.(.(((&.....))))).).).)))))))). -25.70  
>ENSMUSG00000022897 hs-mir-204 2790 2797  
UUCCCUUUGUCAUCCUAUGCCUG&GGUAGGUAAAGCAGGCACAAUCCUGUCGCCUAUGUAAAGGGAAA  
((((((((((.(.....(((((&.....))))).).).)))))))). -  
20.41

mir-204 ENSRNOG00000001662 4611 nt UTR 4 hits 164 568 1545 2753  
-----1-----1-----1-----  
-----1-----  
-----

>ENSRNOG00000001662 hs-mir-204 164 171  
UUCCCUUUGUCAUCCUAUGCCUG&AAAGCUGACUUUUUUUUUAACUUGAAAAGAUUGCAAAGGGAC  
.((((((((((.(.....&.....)))))))). -20.50  
>ENSRNOG00000001662 hs-mir-204 568 575  
UUCCCUUUGUCAUCCUAUGCCUG&CUCCAGCACACACAAACAUCAUCUUCAGCUGUGUGAAAGGGAC  
.((((((((((.(.(.(.(.(((&.....))))).).)))))))). -15.00  
>ENSRNOG00000001662 hs-mir-204 1545 1552  
UUCCCUUUGUCAUCCUAUGCCUG&UGUCACAUUCUGAAUGUGCUCAGGCUUCUGAAGGGAAAGGGAU  
.((((((((((.(.(.(.(.(((&.....))))).).).)))))))). -25.80  
>ENSRNOG00000001662 hs-mir-204 2753 2760  
UUCCCUUUGUCAUCCUAUGCCUG&GUUAGGUCAAGCAGGCACAAUUUAGCGACCUGUGUAAAGGGAAA  
((((((((((.(.....(((((&.....))))).).).)))))))). -  
23.60

miRNA: mir-205  
Human predicted target: ENSG00000131634  
Mouse predicted target: ENSMUSG00000024168  
Rat predicted target: ENSRNOG00000016494  
Hs Gene description: NM\_024600  
mir-205 ENSG00000131634 2553 nt UTR 1 hits 2263

-----1-----  
>ENSG00000131634 hs-mir-205 2263 2270  
UCCUUCAUCCACCGGAGUCUG&UCUGCACAGCUAGUGUGGAAGGCCCGGCAGGGGGAAUGAAGGAU  
((((((((((.(.....&.....)))))))). -33.20  
mir-205 ENSMUSG00000024168 2526 nt UTR 2 hits 404 1025



-----1-----1-----

>ENSMUSG00000024168 hs-mir-205 404 411  
UCCUUCAUCCACCGGAGUCUG&GACUUUUACGAAGCAGGACAUCCAGGAAUCUUUUC AUGAAGGGU  
((((((((((...((((((.&.....)))))).))).....))))). -22.00

>ENSMUSG00000024168 hs-mir-205 1025 1032  
UCCUUCAUCCACCGGAGUCUG&CAGGAAUCACUGCUGGCAUAUGCAGCAAGAGGAAGAUGAAGGC  
.((((((((((...((((((.&.....)))))).))).....))))). -17.86  
mir-205 ENSRNOG00000016494 2528 nt UTR 2 hits 405 2205

-----1-----  
-----1-----

>ENSRNOG00000016494 hs-mir-205 405 412  
UCCUUCAUCCACCGGAGUCUG&UACUUUUACAAAGCAGAACAUCCAGGAAUCUUUUC AUGAAGGU  
.((((((((((...((((((.&.....)))))).))).....))))). -20.50

>ENSRNOG00000016494 hs-mir-205 2205 2212  
UCCUUCAUCCACCGGAGUCUG&CUGACCAGAGUAUUCUGGAUACUUUAAAAUAAUUGAAGGAA  
((((((((((...((((((.&.....)))))).))).....))))). -21.11

miRNA: mir-205

Human predicted target: ENSG00000132622

Mouse predicted target: ENSMUSG00000027325

Rat predicted target: ENSRNOG00000021244

Hs Gene description: PROTEIN C20ORF60. [Source:SWISSPROT;Acc:Q96MM6]  
NM\_052970

mir-205 ENSG00000132622 2943 nt UTR 2 hits 690 1741

-----1-----1-----  
-----1-----

>ENSG00000132622 hs-mir-205 690 697  
UCCUUCAUCCACCGGAGUCUG&AAAACACCCGUCUGGGAAGGCCCAAGGUCAGCUUAUGAAGGAC  
((((((((((...((((((.&.....)))))).))).....))))). -22.00

>ENSG00000132622 hs-mir-205 1741 1748  
UCCUUCAUCCACCGGAGUCUG&GAGGAGGACGAGGGAGGGGCAGGGUGGCAGCACAAAUGAAGGC  
.((((((((((...((((((.&.....)))))).))).....))))). -23.51  
mir-205 ENSMUSG00000027325 2000 nt UTR 2 hits 1043 1488

-----1-----1-----  
-----1-----

>ENSMUSG00000027325 hs-mir-205 1043 1050  
UCCUUCAUCCACCGGAGUCUG&CGCAGUACCUUCCUGAUCUUGUUGGCCCAUCUAUGAAGGAU  
((((((((((...((((((.&.....)))))).))).....))))). -18.90

>ENSMUSG00000027325 hs-mir-205 1488 1495  
UCCUUCAUCCACCGGAGUCUG&GGGGAGGAGACCGGAGAGGCAGGGUGGUGGAAGGAAUGAAGGC  
.((((((((((...((((((.&.....)))))).))).....))))). -25.41  
mir-205 ENSRNOG00000021244 2000 nt UTR 2 hits 1104 1545

-----1-----1-----  
-----1-----

>ENSRNOG00000021244 hs-mir-205 1104 1111  
UCCUUCAUCCACCGGAGUCUG&CACAGUACCUUCCUGAUCUUGGCCCAUCUAUGAAGGU

.(((((((.....(((((..&.....)))))).....))))). -17.10  
>ENSRNOG00000021244 hs-mir-205 1545 1552  
UCCUUCAUCCACCGGAGUCUG&GGGAGGAGACUGUGGAGAGGCAGGGUGUGGUAGGAAUGAAGGC  
.(((((((.....(((((..&.....)))))).....))))). -30.90

miRNA: mir-205

Human predicted target: ENSG00000155111

Mouse predicted target: ENSMUSG00000038481

Rat predicted target: ENSRNOG00000000583

mir-205 ENSG00000155111 6557 nt UTR 2 hits 2083 3755

-----  
-----1-----  
--1-----  
-----

>ENSG00000155111 hs-mir-205 2083 2090  
UCCUUCAUCCACCGGAGUCUG&AUGUGAUUGACUUAACAAGUGAAACUGUCUUAUAAUAUGAAGGU  
.(((((((.....(((((..&.....)))))).....))))). -17.43  
>ENSG00000155111 hs-mir-205 3755 3762  
UCCUUCAUCCACCGGAGUCUG&GCUUUUGAGUAAAUUUUAUGCAGCAGAAACUAUACAAUGAAGGAA  
(((((((.....(((((..&.....)))))).....))))). -19.20  
mir-205 ENSMUSG00000038481 4297 nt UTR 2 hits 2000 2631

-----  
-----1-----1-----  
-----

>ENSMUSG00000038481 hs-mir-205 2000 2007  
UCCUUCAUCCACCGGAGUCUG&CGCGCCUGUGACUGACUUAUAAAUGCCCUGUGAGAUGAAGGU  
.(((((((.....(((((..&.....)))))).....))))). -22.60  
>ENSMUSG00000038481 hs-mir-205 2631 2638  
UCCUUCAUCCACCGGAGUCUG&CUUUCUCUGUGAAGGAAGCGAAGCCUUCGUAUACAUGAAGGC  
.(((((((.....(((((..&.....)))))).....))))). -17.40  
mir-205 ENSRNOG00000000583 4096 nt UTR 4 hits 1620 1855 3774 4057

-----  
-----1-----  
1-----  
--1-----1-----

>ENSRNOG00000000583 hs-mir-205 1620 1627  
UCCUUCAUCCACCGGAGUCUG&AAAUAGUAAUACAGGCUAGCAUACCAGGGCCGAACAUGAAGGC  
.(((((((.....(((((..&.....)))))).....))))). -20.90  
>ENSRNOG00000000583 hs-mir-205 1855 1862  
UCCUUCAUCCACCGGAGUCUG&GGGUGGAAAACAGAGAGCAGGAGACAUUCCUUCAUGAAGGU  
.(((((((.....(((((..&.....)))))).....))))). -19.68  
>ENSRNOG00000000583 hs-mir-205 3774 3781  
UCCUUCAUCCACCGGAGUCUG&ACAGGCUUAUAGUGACAAGCAUACCAGGGCCGAACAUGAAGGC  
.(((((((.....(((((..&.....)))))).....))))). -20.51  
>ENSRNOG00000000583 hs-mir-205 4057 4064  
UCCUUCAUCCACCGGAGUCUG&CGUGACAAUAAACUCAUGUGGGAGUGUCAGGUGCCAUGAAGGU  
.(((((((.....(((((..&.....)))))).....))))). -21.16

miRNA: mir-206

Human predicted target: ENSG00000050030

Mouse predicted target: ENSMUSG00000046449

Rat predicted target: ENSRNOG00000002801

Hs Gene description: BA130N24.1 (NOVEL PROTEIN SIMILAR TO REV3L (REV3 (YEAST HOMOLOG)-LIKE, CATALYTIC SUBUNIT OF DNA POLYMERASE ZETA) (POLZ)) (FRAGMENT). [Source:SPTREMBL;Acc:Q9NST0]

mir-206 ENSG00000050030 7828 nt UTR 2 hits 303 1301

-----1-----1-----  
-----  
-----  
-----

>ENSG00000050030 hs-mir-206 303 310  
UGGAAUGUAAGGAAGUGUGUGG&UAUUUGGGGAAGUUGUCCUGUUAUUUACUAGAAACAUUCCAG  
((((((((((..((((((.....(&.....))))))..))))))..)))))).. -15.40

>ENSG00000050030 hs-mir-206 1301 1308  
UGGAAUGUAAGGAAGUGUGUGG&UCCCCUACUUUUUAAAAAAAAAUUCACAGCCCCAACAUCCU  
..((((((((((..((((((.....(&.....))))))..))))))..)))))).. -18.70

mir-206 ENSMUSG00000046449 2000 nt UTR 3 hits 310 1225 1853

-----1-----1-----  
1-----

>ENSMUSG00000046449 hs-mir-206 310 317  
UGGAAUGUAAGGAAGUGUGUGG&UAUUUGGGGGACUUGUCCUGUUAUUUACUAGAAACAUUCCAG  
((((((((((..((((((.....(&.....))))))..))))))..)))))).. -15.89

>ENSMUSG00000046449 hs-mir-206 1225 1232  
UGGAAUGUAAGGAAGUGUGUGG&CCUCCUUCACUACUUAAGAAACUUCACAGUUCCACAUCCU  
..((((((((((..((((((.....(&.....))))))..))))))..)))))).. -25.00

>ENSMUSG00000046449 hs-mir-206 1853 1860  
UGGAAUGUAAGGAAGUGUGUGG&GUGGGUGAGGAGAAUCUGUGAGGAGAGUUCAGGCACAUCCU  
..((((((((((..((((((.....(&.....))))))..))))))..)))))).. -15.90

mir-206 ENSRNOG00000002801 2000 nt UTR 4 hits 316 1260 1728 1891

-----1-----1-----1-----  
-1-----

>ENSRNOG00000002801 hs-mir-206 316 323  
UGGAAUGUAAGGAAGUGUGUGG&UGGGGACUUGUUUGUCCUGUUAUUUACUAGAAACAUUCCAG  
((((((((((..((((((.....(&.....))))))..))))))..)))))).. -15.49

>ENSRNOG00000002801 hs-mir-206 1260 1267  
UGGAAUGUAAGGAAGUGUGUGG&UCCCUUCCACUACUUAACAUCUUCACAGUUCCGACAUCCU  
..((((((((((..((((((.....(&.....))))))..))))))..)))))).. -25.20

>ENSRNOG00000002801 hs-mir-206 1728 1735  
UGGAAUGUAAGGAAGUGUGUGG&AAAUGGAAGGGAGCUUAUCAUGUAUAUAAGUAUACACAUCCC  
..((((((((((..((((((.....(&.....))))))..))))))..)))))).. -16.20

>ENSRNOG00000002801 hs-mir-206 1891 1898  
UGGAAUGUAAGGAAGUGUGUGG&GUAGGUGAGGAGAAGUCUGUGAGGAGAGUUCAGGCACAUCCC  
..((((((((((..((((((.....(&.....))))))..))))))..)))))).. -15.50

miRNA: mir-206

Human predicted target: ENSG00000074696

Mouse predicted target: ENSMUSG00000033629

Rat predicted target: ENSRNOG00000012607

Hs Gene description: BUTYRATE-INDUCED TRANSCRIPT 1.

[Source:RefSeq;Acc:NM\_016395] NM\_016395

mir-206 ENSG00000074696 3932 nt UTR 3 hits 105 1495 1588

-----1-----1-----1-----

>ENSG00000074696 hs-mir-206 105 112  
UGGAAUGUAAGGAAGUGUGUGG&AAUUCUCAGUGAGGCUAUCUUCUUUCCAGUAACAUCUCCU  
(((((((((((((((((((((.&.....)).)).)).....)))))))). -20.70

>ENSG00000074696 hs-mir-206 1495 1502  
UGGAAUGUAAGGAAGUGUGUGG&GUUGGCCAUUGUAAAAACAUCAGUUUCCUCUCAUACAUCUCAA  
((((((((((((((((((((((..&.....)))))).)).)).....)))))))). -23.30

>ENSG00000074696 hs-mir-206 1588 1595  
UGGAAUGUAAGGAAGUGUGUGG&AAGGAGUGAUAGCUCUUUCUGUUCUGCCAUCUCCAACAUCUCCU  
((((((((((..(((.(.(((.&.....)).)))))))). -21.30

mir-206 ENSMUSG00000033629 3468 nt UTR 2 hits 122 1072

-----1-----1-----

>ENSMUSG00000033629 hs-mir-206 122 129  
UGGAAUGUAAGGAAGUGUGUGG&GUUUUUUAAAGUAAGGCUGUCUCUCUUUCCAGUAACAUCUCCU  
((((((((((..(((.(.(((.&.....)).)))))))). -16.10

>ENSMUSG00000033629 hs-mir-206 1072 1079  
UGGAAUGUAAGGAAGUGUGUGG&UGGCUACUGUUCAAGACAGCUUCAGUCUCUCUACCACAUCUCCAU  
((((((((((..(((.(.(((.&.....)))))))). -17.76

mir-206 ENSRNOG00000012607 2000 nt UTR 2 hits 126 1276

-----1-----1-----

>ENSRNOG00000012607 hs-mir-206 126 133  
UGGAAUGUAAGGAAGUGUGUGG&UGUUUUUAAAGUAAGGCUGUCUCUUUCCAGUAACAUCUCCU  
((((((((((..(((.(.(((.&.....)).)))))))). -15.30

>ENSRNOG00000012607 hs-mir-206 1276 1283  
UGGAAUGUAAGGAAGUGUGUGG&UAGGGCCACCACAAGAGGUCUUGAGUCUCUUCACCACAUCUCCAU  
((((((((((..(((.(.(((.&.....)))))))). -23.23

miRNA: mir-206

Human predicted target: ENSG00000144233

Mouse predicted target: ENSMUSG00000041915

Rat predicted target: ENSRNOG00000016250

mir-206 ENSG00000144233 5464 nt UTR 2 hits 2393 4295

-----1-----

-----1-----

>ENSG00000144233 hs-mir-206 2393 2400  
UGGAAUGUAAGGAAGUGUGUGG&AGUGGUUUUUGGAGUGAAGAAGCCUACUCCCUGCACAUCUCCC  
.(((((((((((((...(&.....)))))))).))))). -21.80  
>ENSG00000144233 hs-mir-206 4295 4302  
UGGAAUGUAAGGAAGUGUGUGG&UCGUUUCUUCAGAGAAAUAUGUUCUAGAGAUUACAUCUCCAU  
(((((((((((.....&.....)))))))).))))). -17.55  
mir-206 ENSMUSG00000041915 5013 nt UTR 2 hits 1178 2285

-----1-----  
-----1-----  
-----

>ENSMUSG00000041915 hs-mir-206 1178 1185  
UGGAAUGUAAGGAAGUGUGUGG&GUCCAAACUGUUCGUGUUGCUCAUUUAAACUCUUGACAUCUCCC  
.(((((((((((...(&.....)))))))).))))). -19.20  
>ENSMUSG00000041915 hs-mir-206 2285 2292  
UGGAAUGUAAGGAAGUGUGUGG&UCAGUGGUUUCAGAGUGAAGUCGCCUACUCCUGCACAUCUCCC  
.(((((((((((...(&.....)))))))).))))). -23.00  
mir-206 ENSRNOG00000016250 4098 nt UTR 2 hits 1351 3879

-----1-----  
-----1-----  
-----

>ENSRNOG00000016250 hs-mir-206 1351 1358  
UGGAAUGUAAGGAAGUGUGUGG&CCAAACUGUUCGUGUUGCUCAUUUAAAAACUCUUGACAUCUCCC  
.(((((((((((...(&.....)))))))).))))). -18.61  
>ENSRNOG00000016250 hs-mir-206 3879 3886  
UGGAAUGUAAGGAAGUGUGUGG&CCAAACUGUUCGUGUUGCUCAUUUAAAAACUCUUGACAUCUCCC  
.(((((((((((...(&.....)))))))).))))). -18.61

miRNA: mir-206  
Human predicted target: ENSG00000145925  
Mouse predicted target: ENSMUSG00000025867  
Rat predicted target: ENSRNOG00000000105  
Hs Gene description: COMPLEXIN 2 (SYNAPHIN 1) (921-L).  
[Source:SWISSPROT;Acc:Q13329] NM\_006651  
mir-206 ENSG00000145925 2183 nt UTR 2 hits 295 357

-----1--1-----  
-----

>ENSG00000145925 hs-mir-206 295 302  
UGGAAUGUAAGGAAGUGUGUGG&GAAGCCUAAGGUCGUGCUAGUGUGGUGACCCCAUACAUCUCCU  
.(((((((((((...(&.....)))))))).))))). -18.60  
>ENSG00000145925 hs-mir-206 357 364  
UGGAAUGUAAGGAAGUGUGUGG&GAGGACCACUGUCCCCAGCCAGCCAAAGUAAUGACACAUCUCCAG  
(((((((((((.....&.....)))))))).))))). -18.50  
mir-206 ENSMUSG00000025867 2000 nt UTR 2 hits 340 402

-----1--1-----  
-----

>ENSMUSG00000025867 hs-mir-206 340 347  
UGGAAUGUAAGGAAGUGUGUGG&AUGGUCUAUGUUAUGUGGUGACACUCCCCCAUACAUCUCCU

.(((((((((((((.....)))))).)))).)))). -20.60  
>ENSMUSG00000025867 hs-mir-206 402 409  
UGGAAUGUAAGGAAGUGUGUGG&GAGGACCACUGUCCCCAGCCAGCCAAAGUAAUGACACAUUCCAG  
(((((((((((((.....)))))).)))).)))). -18.50  
mir-206 ENSRNOG00000000105 2000 nt UTR 2 hits 329 391

-----1-1-----  
-----  
>ENSRNOG00000000105 hs-mir-206 329 336  
UGGAAUGUAAGGAAGUGUGUGG&AUGGUCUACAUUAGUGUGGUAACACUCCCCCAUACAUCU  
.(((((((((((((.....)))))).)))).)))). -20.40  
>ENSRNOG00000000105 hs-mir-206 391 398  
UGGAAUGUAAGGAAGUGUGUGG&GAGGACCACUGUCCCCAGCCAGCCAAAGUAAUGACACAUUCCAG  
(((((((((((((.....)))))).)))).)))). -18.50

miRNA: mir-206

Human predicted target: ENSG00000152661  
Mouse predicted target: ENSMUSG00000050953  
Rat predicted target: ENSRNOG00000000805  
Hs Gene description: GAP JUNCTION ALPHA-1 PROTEIN (CONNEXIN 43) (CX43)  
(GAP JUNCTION 43 KDA HEART PROTEIN). [Source:SWISSPROT;Acc:P17302]

NM\_000165  
mir-206 ENSG00000152661 3730 nt UTR 2 hits 478 1609  
-----1-----1-----  
-----

--  
>ENSG00000152661 hs-mir-206 478 485  
UGGAAUGUAAGGAAGUGUGUGG&AAAAGACAGAGGAUUGUCCUUAAGUCCCGCUAAAACAUCU  
(((((((((((((.....)))))).)))).)))). -19.13  
>ENSG00000152661 hs-mir-206 1609 1616  
UGGAAUGUAAGGAAGUGUGUGG&ACAGUUUUGUACAAUGAAAUAUACUAAUUGUUUGACAUUCCAU  
(((((((((((((.....)))))).)))).)))). -18.10  
mir-206 ENSMUSG00000050953 3720 nt UTR 2 hits 477 1601  
-----1-----1-----  
-----

-  
>ENSMUSG00000050953 hs-mir-206 477 484  
UGGAAUGUAAGGAAGUGUGUGG&UGAAAAGACAGGUUGUCCUACAUCCCCGCUAAAAACAUCU  
(((((((((((((.....)))))).)))).)))). -20.10  
>ENSMUSG00000050953 hs-mir-206 1601 1608  
UGGAAUGUAAGGAAGUGUGUGG&AGGAGUUUUUGGACAAUGAGAAACUAAUUGUUUGACAUUCCAU  
(((((((((((((.....)))))).)))).)))). -17.30  
mir-206 ENSRNOG00000000805 2000 nt UTR 2 hits 480 1668  
-----1-----1-----  
-----

>ENSRNOG00000000805 hs-mir-206 480 487  
UGGAAUGUAAGGAAGUGUGUGG&GACAGAUUGUCCUACAUCSCSCSCSCSCCAAAAAACAUCU  
(((((((((((((.....)))))).)))).)))). -18.34



mir-206 ENSG00000166068 4376 nt UTR 2 hits 604 1440  
-----1-----1-----  
-----

>ENSG00000166068 hs-mir-206 604 611  
UGGAAUGUAAGGAAGUGUGUGG&CUGAAGUAGAUUAUAUAUAUAUAUCUACUGUCACAUUCCAU  
(((((((((((((...((((((...&.....)))))))))...)))))...)))). -19.50  
>ENSG00000166068 hs-mir-206 1440 1447  
UGGAAUGUAAGGAAGUGUGUGG&AUUAAAACUCUAACCAAGGAAAGGGUUCUUAAGAACAUCUCCC  
(((((((((((((...((((((...&.....)))))))))...)))))...)))). -18.60  
mir-206 ENSMUSG00000027351 2000 nt UTR 2 hits 584 1214

-----1-----1-----  
-----

>ENSMUSG00000027351 hs-mir-206 584 591  
UGGAAUGUAAGGAAGUGUGUGG&CUAGUUCUGAGGUAGAUGUGCACAUUCUGCCACCACAUUCCAU  
(((((((((((((...((((((...&.....)))))))))...)))))...)))). -24.30  
>ENSMUSG00000027351 hs-mir-206 1214 1221  
UGGAAUGUAAGGAAGUGUGUGG&UCAUCCACCAUUGUGAAUGGAAAUCUUAUACACCACAUUCCU  
(((((((((((((...((((((...&.....)))))))))...)))))...)))). -18.60  
mir-206 ENSRNOG00000005209 2003 nt UTR 2 hits 587 1222

-----1-----1-----  
-----

>ENSRNOG00000005209 hs-mir-206 587 594  
UGGAAUGUAAGGAAGUGUGUGG&CUAGCUCUGAGGUAGAUGUGCACACAUCUGCCACCACAUUCCAU  
(((((((((((((...((((((...&.....)))))))))...)))))...)))). -26.20  
>ENSRNOG00000005209 hs-mir-206 1222 1229  
UGGAAUGUAAGGAAGUGUGUGG&UCAUCCACCAUUGUGAAUGGAAAUCUCGUUAUACACAUUCCU  
(((((((((((((...((((((...&.....)))))))))...)))))...)))). -17.63

miRNA: mir-206  
Human predicted target: ENSG00000176697  
Mouse predicted target: ENSMUSG00000048482  
Rat predicted target: ENSRNOG00000005051  
Hs Gene description: BRAIN-DERIVED NEUROTROPHIC FACTOR PRECURSOR (BDNF).  
[Source:SWISSPROT;Acc:P23560] NM\_170733  
mir-206 ENSG00000176697 2498 nt UTR 3 hits 220 390 1322  
-----1-----1-----1-----  
-----

>ENSG00000176697 hs-mir-206 220 227  
UGGAAUGUAAGGAAGUGUGUGG&ACAGUCAUUUGCGCACAAACUUA AAAAAGUCUGCAUUACAUUCCU  
(((((((((((((...((((((...&.....)))))))))...)))))...)))). -22.61  
>ENSG00000176697 hs-mir-206 390 397  
UGGAAUGUAAGGAAGUGUGUGG&AAACACACACACACACAACAAA AUUGAACAAAACAUUCCGU  
(((((((((((((...((((((...&.....)))))))))...)))))...)))). -22.49  
>ENSG00000176697 hs-mir-206 1322 1329  
UGGAAUGUAAGGAAGUGUGUGG&CAAGGUCUAGGUGGAGGUGGGCAUGGUUAUUUGAGACAUUCCAA  
(((((((((((((...((((((...&.....)))))))))...)))))...)))). -18.60



mir-206 ENSMUSG00000048482 4854 nt UTR 2 hits 213 1306  
-----1-----1-----  
-----

>ENSMUSG00000048482 hs-mir-206 213 220  
UGGAAUGUAAGGAAGUGUGUGG&ACAGUCAUUUGCGCACAAACUUUAAAAGUCUGCAUUACAUCUCCU  
.(((((((((.(((((((((.&.....)))))))).))))). -25.00  
>ENSMUSG00000048482 hs-mir-206 1306 1313  
UGGAAUGUAAGGAAGUGUGUGG&AAGGUCUAGGAUGGAGGUGGGGAAUGGUACUUGAGACAUCUCCU  
.((((((((.....((((.....&.....)))))))).)))). -16.70

mir-206 ENSRNOG00000005051 2266 nt UTR 2 hits 217 1298  
-----1-----1-----  
-----

>ENSRNOG00000005051 hs-mir-206 217 224  
UGGAAUGUAAGGAAGUGUGUGG&ACAGUCAUUUGCGCACAAACUUUAAAAGUCUGCAUUACAUCUCCU  
.(((((((((.(((((((((.&.....)))))))).))))). -25.00  
>ENSRNOG00000005051 hs-mir-206 1298 1305  
UGGAAUGUAAGGAAGUGUGUGG&UGAGGUCUAGAUGGAGGUGGGGAAUGGUACUUGAGACAUCUCCU  
.((((((((.....((((.....&.....)))))))).)))). -16.70

miRNA: mir-206

Human predicted target: ENSG00000179036

Mouse predicted target: ENSMUSG00000020894

Rat predicted target: ENSRNOG00000006989

Hs Gene description: VESICLE-ASSOCIATED MEMBRANE PROTEIN 2 (VAMP-2)  
(SYNAPTOBREVIN 2). [Source:SWISSPROT;Acc:P19065] NM\_014232

mir-206 ENSG00000179036 3727 nt UTR 4 hits 964 1004 3291 3331  
-----1-1-----1-1-----  
-----

>ENSG00000179036 hs-mir-206 964 971  
UGGAAUGUAAGGAAGUGUGUGG&UGGACCAAUAUUCUGCCACUUCGGGUUUCUCCCUACAUCUCCU  
.(((((((((.(((((((((.&.....)))))))).))))). -23.70

>ENSG00000179036 hs-mir-206 1004 1011  
UGGAAUGUAAGGAAGUGUGUGG&CCUGCUCUCCAGUUUUAUGUGGGUACUCAACUGACAUCUCCU  
.(((((((((.(((((((((.&.....)))))))).))))). -17.50

>ENSG00000179036 hs-mir-206 3291 3298  
UGGAAUGUAAGGAAGUGUGUGG&UGGACCAAUAUUCUGCCACUUCGGGUUUCUCCCUACAUCUCCU  
.(((((((((.(((((((((.&.....)))))))).))))). -23.70

>ENSG00000179036 hs-mir-206 3331 3338  
UGGAAUGUAAGGAAGUGUGUGG&CCUGCUCUCCAGUUUUAUGUGGGUACUCAACUGACAUCUCCU  
.(((((((((.(((((((((.&.....)))))))).))))). -17.50

mir-206 ENSMUSG00000020894 3731 nt UTR 2 hits 952 992  
-----11-----  
-----

>ENSMUSG00000020894 hs-mir-206 952 959

UGGAAUGUAAGGAAGUGUGUGG&UGGACCAAUAUUCUGCCACUCGGGGUCUCUCCCUACAUCUCCU  
.(((((((((((((.....)))))).....))))). -23.70  
>ENSMUSG00000020894 hs-mir-206 992 999  
UGGAAUGUAAGGAAGUGUGUGG&CCUGCUCCCCAGUUUUAUGUGGGGCACUCAACUGACAUCUCC  
.(((((((((((((.....)))))).....))))). -20.70  
mir-206 ENSRNOG00000006989 4248 nt UTR 2 hits 1464 1504  
-----1-1-----

>ENSRNOG00000006989 hs-mir-206 1464 1471  
UGGAAUGUAAGGAAGUGUGUGG&UGGACCAAUAUUCUGCCACUUGGGGUCUCUCCCUACAUCUCCU  
.(((((((((((((.....)))))).....))))). -23.70  
>ENSRNOG00000006989 hs-mir-206 1504 1511  
UGGAAUGUAAGGAAGUGUGUGG&CCUGCUCCCCAGUUUUCGUGUGGGCAUUCAGCUGACAUCUCC  
.(((((((((((((.....)))))).....))))). -17.30

miRNA: mir-206  
Human predicted target: ENSG00000180318  
Mouse predicted target: ENSMUSG00000036602  
Rat predicted target: ENSRNOG00000004390  
Hs Gene description: CARTILAGE HOMEOPROTEIN 1 (CART-1).  
[Source:SWISSPROT;Acc:Q15699] NM\_006982  
mir-206 ENSG00000180318 2306 nt UTR 3 hits 1123 1476 2190  
-----1-----1-----

>ENSG00000180318 hs-mir-206 1123 1130  
UGGAAUGUAAGGAAGUGUGUGG&CCCCUUGAUUUACUUCUCCUCCUUAACCCUGUCACAUCUCCAA  
(((((((((((((.....)))))).....))))). -19.20  
>ENSG00000180318 hs-mir-206 1476 1483  
UGGAAUGUAAGGAAGUGUGUGG&AAGCUGAUGAUAGAAAUGAGUAAUGUCCUAAACAACAUCUCC  
.(((((((((((((.....&.....)))))).....))))). -15.00  
>ENSG00000180318 hs-mir-206 2190 2197  
UGGAAUGUAAGGAAGUGUGUGG&AUGGCAGUAAGAAUCUCAUGAAUUUCCUGUGUUAACAUCUCCAA  
(((((((((((((.....)))))).....))))). -21.10  
mir-206 ENSMUSG00000036602 3341 nt UTR 2 hits 1096 1460  
-----1-----1-----

>ENSMUSG00000036602 hs-mir-206 1096 1103  
UGGAAUGUAAGGAAGUGUGUGG&CUUCUUGAUUUCCUUCUACUCCUUCUCCUCCUCCUGUCACAUCUCCAA  
(((((((((((((.....)))))).....))))). -22.70  
>ENSMUSG00000036602 hs-mir-206 1460 1467  
UGGAAUGUAAGGAAGUGUGUGG&AGGCAGAUGAUGGAGAUGAGCAACAUCUAAACAACAUCUCCU  
.(((((((((((((.....&.....)))))).....))))). -18.20  
mir-206 ENSRNOG00000004390 3008 nt UTR 2 hits 1180 1518  
-----1-----1-----

>ENSRNOG00000004390 hs-mir-206 1180 1187

UGGAAUGUAAGGAAGUGUGUGG&CUUCUUUGAUUUACUUCUCCUCGCUUCCCCUGUCACAUCUCAA  
((((((((((...((((((...((&.....)))))))).))))). -23.50  
>ENSRNOG00000004390 hs-mir-206 1518 1525  
UGGAAUGUAAGGAAGUGUGUGG&AGGCAGAUGAUGGAGAUGAGAGAUGUCCUAAACAAACAUUCCU  
((((((((((...((((((...((&.....)))))))).))))). -16.57

miRNA: mir-210

Human predicted target: ENSG00000105371

Mouse predicted target: ENSMUSG00000001014

Rat predicted target: ENSRNOG00000020682

Hs Gene description: INTERCELLULAR ADHESION MOLECULE-4 PRECURSOR (ICAM-4)  
(LANDSTEINER- WIENER BLOOD GROUP GLYCOPROTEIN) (LW BLOOD GROUP PROTEIN)  
(CD242 ANTIGEN). [Source:SWISSPROT;Acc:Q14773] NM\_001544

mir-210 ENSG00000105371 2418 nt UTR 1 hits 1274

-----1-----  
-----

>ENSG00000105371 hs-mir-210 1274 1281  
CUGUGCGUGUGACAGCGGCUG&GGAUUCUAAUUUAGACGCCCGGAACGCUGCGGCACGCACAC  
((((((((((...((((((...((&.....)))))))).))))). -31.80  
mir-210 ENSMUSG00000001014 2099 nt UTR 1 hits 938

-----1-----  
-----

>ENSMUSG00000001014 hs-mir-210 938 945  
CUGUGCGUGUGACAGCGGCUG&CGACUCUAAUUUAGAAGCCUGCGAACGCUGCGGCACACGCACAC  
((((((((((...((((((...((&.....)))))))).))))). -32.20  
mir-210 ENSRNOG00000020682 2102 nt UTR 1 hits 1002

-----1-----  
-----

>ENSRNOG00000020682 hs-mir-210 1002 1009  
CUGUGCGUGUGACAGCGGCUG&CGACUCUAAUUUAGACGCCUGCGAACGCUGCGGCACACGCACAC  
((((((((((...((((((...((&.....)))))))).))))). -32.20

miRNA: mir-210

Human predicted target: ENSG00000171246

Mouse predicted target: ENSMUSG00000025582

Rat predicted target: ENSRNOG00000003741

Hs Gene description: NEURONAL PENTRAXIN I PRECURSOR (NP-I) (NP1).  
[Source:SWISSPROT;Acc:Q15818] NM\_002522

mir-210 ENSG00000171246 5672 nt UTR 2 hits 121 127

----11-----  
-----

>ENSG00000171246 hs-mir-210 121 128  
CUGUGCGUGUGACAGCGGCUG&UCCCCAGGAAUGAACCGAGGCCGUCGCCUUGCACACGCACAC  
((((((((((...((((((...((&.....)))))))).))))). -32.00

>ENSG00000171246 hs-mir-210 127 134  
CUGUGCGUGUGACAGCGGCUG&GGAAUGAACCGAGGCCGUCGCCCCUGCACACGCACACGCACAC  
.((((((((((...(((((&.....)))))).....)))))))). -29.43  
mir-210 ENSMUSG00000025582 5101 nt UTR 2 hits 120 126

-----11-----  
-----  
-----

>ENSMUSG00000025582 hs-mir-210 120 127  
CUGUGCGUGUGACAGCGGCUG&CCCCAGGAAUGACUCAAGGCCAUGGCCCCUGCACACGCACAC  
.((((((((((...(((((&.....)))))).....)))))))). -33.40  
>ENSMUSG00000025582 hs-mir-210 126 133  
CUGUGCGUGUGACAGCGGCUG&GGAAUGACUCAAGGCCAUGGCCCCUGCACACGCACACGCACAC  
.((((((((((...(((((&.....)))))).....)))))))). -30.20  
mir-210 ENSRNOG00000003741 5477 nt UTR 2 hits 128 134

-----2-----  
-----  
-----

>ENSRNOG00000003741 hs-mir-210 128 135  
CUGUGCGUGUGACAGCGGCUG&CCCCAGGAAUGACUCAAGGUCAUGGCCCCUGCACACGCACAC  
.((((((((((...(((((&.....)))))).....)))))))). -33.40  
>ENSRNOG00000003741 hs-mir-210 134 141  
CUGUGCGUGUGACAGCGGCUG&GGAAUGACUCAAGGUCAUGGCCCCUGCACACGCACACGCACAC  
.((((((((((...(((((&.....)))))).....)))))))). -30.20

miRNA: mir-211  
Human predicted target: ENSG00000004848  
Mouse predicted target: ENSMUSG00000035277  
Rat predicted target: ENSRNOG00000003047  
Hs Gene description: HOMEBOX PROTEIN ARX (ARISTALESS RELATED HOMEBOX).  
[Source:SWISSPROT;Acc:Q96QS3] NM\_139058  
mir-211 ENSG00000004848 2495 nt UTR 3 hits 585 1134 1866

-----1-----1-----  
1-----

>ENSG00000004848 hs-mir-211 585 592  
UUCCUUUGUCAUCCUUCGCCU&UUAUCAUACACCAACCAAGGUUUUUAUAUCAAAACCAAGGGAAA  
((((((((((...(((((&.....)))))).....)))))))). -17.85  
>ENSG00000004848 hs-mir-211 1134 1141  
UUCCUUUGUCAUCCUUCGCCU&UCCUGGCAGAGGCCCCUGGUUUGAAUCCGAUCCUCAAGGGAAC  
((((((((((...(((((&.....)))))).....)))))))). -23.00  
>ENSG00000004848 hs-mir-211 1866 1873  
UUCCUUUGUCAUCCUUCGCCU&GGGCUGGGUCUCGCCGACGCUCCAGGGUGAUGGGAAAGGGAAAG  
((((((((((...(((((&.....)))))).....)))))))). -26.02  
mir-211 ENSMUSG00000035277 2648 nt UTR 2 hits 569 1793

-----1-----1-----  
-----

>ENSMUSG00000035277 hs-mir-211 569 576  
UUCCUUUGUCAUCCUUCGCCU&UUAUCAUACAUCAACCAAGGUUUUUAUAUCAAAACCAAGGGAAA

((((((((.....(((&.....))))).))))). -17.85  
>ENSMUSG00000035277 hs-mir-211 1793 1800  
UCCCCUUGUCAUCCUUCGCCU&GGGUCUGGCCAAUGCUCGCCAGGGUGAUGGGAAAGGGAAG  
((((((((.....(((&.....))))).))))). -26.02  
mir-211 ENSRNOG00000003047 2000 nt UTR 2 hits 574 1798

-----1-----1--  
-----

>ENSRNOG00000003047 hs-mir-211 574 581  
UCCCCUUGUCAUCCUUCGCCU&UUAUCAUACACCAACCAAGGUUUUUAUAUCAAAACCAAGGGAAA  
((((((((.....(((&.....))))).))))). -17.85  
>ENSRNOG00000003047 hs-mir-211 1798 1805  
UCCCCUUGUCAUCCUUCGCCU&GGGUCUGGCCAAUGCUCGCCAGGGUGAUGGGAAAGGGAAG  
((((((((.....(((&.....))))).))))). -26.02

miRNA: mir-211

Human predicted target: ENSG00000095321  
Mouse predicted target: ENSMUSG00000026853  
Rat predicted target: ENSRNOG00000018145  
Hs Gene description: CARNITINE O-ACETYLTRANSFERASE (EC 2.3.1.7) (CARNITINE ACETYLASE) (CAT). [Source:SWISSPROT;Acc:P43155] NM\_144782  
mir-211 ENSG00000095321 2605 nt UTR 2 hits 1496 1713

-----1-----1-----

>ENSG00000095321 hs-mir-211 1496 1503  
UCCCCUUGUCAUCCUUCGCCU&ACAUCCACCUAGGUGUCCCGCAGCAGGGGGUGGAGAAAGGGGAU  
.((((((((.....(((&.....))))).))))). -26.90  
>ENSG00000095321 hs-mir-211 1713 1720  
UCCCCUUGUCAUCCUUCGCCU&AGCCAGACAAUGGAGGAAUUGGAUGGAGGCAGAGAAAGGGGAU  
.((((((((.....(((&.....))))).))))). -27.00  
mir-211 ENSMUSG00000026853 2636 nt UTR 4 hits 461 621 1947 2403

-----1-----1-----  
---1-----1-----

>ENSMUSG00000026853 hs-mir-211 461 468  
UCCCCUUGUCAUCCUUCGCCU&ACCUCCCAUAAGGUUAAGUCUUUGUAGCCAAAGGGAC  
.((((((((.....(((&.....))))).))))). -21.70  
>ENSMUSG00000026853 hs-mir-211 621 628  
UCCCCUUGUCAUCCUUCGCCU&AUGGUGGUAUAUGUGAUUAUGCCAGGUGAUCAAUAAAGGGAAG  
((((((((.....(((&.....))))).))))). -23.40

>ENSMUSG00000026853 hs-mir-211 1947 1954  
UCCCCUUGUCAUCCUUCGCCU&UGUUGGGUCAUCAAUCCUCACUUUGGGGGCUAAAGGGAAC  
((((((((.....(((&.....))))).))))). -21.36  
>ENSMUSG00000026853 hs-mir-211 2403 2410  
UCCCCUUGUCAUCCUUCGCCU&CAGCUGUGGCAGGACAACCUGGAGAGAGUCCCUAAAAGGGAC  
.((((((((.....(((&.....))))).))))). -19.62  
mir-211 ENSRNOG00000018145 3194 nt UTR 2 hits 554 1625

-----1-----1-----  
-----

>ENSRNOG00000018145 hs-mir-211 554 561  
UUCCCUUUGUCAUCCUUCGCCU&AUGGUUGCAUAAUGUGAUUCUGCCAGGCGAUCAAUAAAGGGAAG  
((((((((((.....(((((&.....)))))).....)))))))). -25.30  
>ENSRNOG00000018145 hs-mir-211 1625 1632  
UUCCCUUUGUCAUCCUUCGCCU&AUGGUUGCAUAAUGUGAUUCUGCCAGGCGAUCAAUAAAGGGAAG  
((((((((((.....(((((&.....)))))).....)))))))). -25.30

miRNA: mir-211

Human predicted target: ENSG00000105997

Mouse predicted target: ENSMUSG00000038270

Rat predicted target: ENSRNOG00000006281

Hs Gene description: HOMEBOX PROTEIN HOX-A3 (HOX-1E).

[Source:SWISSPROT;Acc:O43365] NM\_153632

mir-211 ENSG00000105997 3725 nt UTR 2 hits 1475 1821

-----1-----1-  
-----

>ENSG00000105997 hs-mir-211 1475 1482  
UUCCCUUUGUCAUCCUUCGCCU&GCUCCAAAAUCUGCACGCGGAGCGAAACAGUUUGAAAGGGAC  
((((((((((.....(((((&.....)))))).....)))))))). -20.50

>ENSG00000105997 hs-mir-211 1821 1828  
UUCCCUUUGUCAUCCUUCGCCU&ACUGACUGGCUAGAAGAGGCAAAGAAGGCACAGUAAAGGGAAA  
((((((((((.....(((((&.....)))))).....)))))))). -25.30

mir-211 ENSMUSG00000038270 2000 nt UTR 3 hits 674 1408 1743  
-----1-----1-----1-----

>ENSMUSG00000038270 hs-mir-211 674 681  
UUCCCUUUGUCAUCCUUCGCCU&CAAUGGUGUAUUGGCAUACAUAUAAAUAUUUUGAAAGGGAAA  
((((((((((.....(((((&.....)))))).....)))))))). -19.85

>ENSMUSG00000038270 hs-mir-211 1408 1415  
UUCCCUUUGUCAUCCUUCGCCU&GAUGGGGGGACGGGACUCUUCUAAAUUCACCUCAAAAGGGAC  
((((((((((.....(((((&.....)))))).....)))))))). -23.16

>ENSMUSG00000038270 hs-mir-211 1743 1750  
UUCCCUUUGUCAUCCUUCGCCU&CUGACUGGCUGGCAGAGUAAAAGGCAGAUACGGGAAAAGGGAAA  
((((((((((.....(((((&.....)))))).....)))))))). -22.70

mir-211 ENSRNOG00000006281 2881 nt UTR 2 hits 679 1422  
-----1-----1-----

>ENSRNOG00000006281 hs-mir-211 679 686  
UUCCCUUUGUCAUCCUUCGCCU&CAAUGGUGUAUUGGCAUACAUAUAAAUAUUUUGAAAGGGAAA  
((((((((((.....(((((&.....)))))).....)))))))). -19.85

>ENSRNOG00000006281 hs-mir-211 1422 1429  
UUCCCUUUGUCAUCCUUCGCCU&GAGGGGGUGGGGUGUCUCUUCUAAAUUCACCUUGAAAGGGAC  
((((((((((.....(((((&.....)))))).....)))))))). -25.06

miRNA: mir-211

Human predicted target: ENSG00000116273  
Mouse predicted target: ENSMUSG00000047777  
Rat predicted target: ENSRNOG00000009046  
Hs Gene description: NM\_153812

mir-211 ENSG00000116273 4360 nt UTR 3 hits 628 657 1398

-----11-----1-----  
-----  
-----

>ENSG00000116273 hs-mir-211 628 635  
UUCCCUUUGUCAUCCUUCGCCU&CAGCUGGUGGUUCUAGGUUCCUUCUGUUUGUAAAAGGGAC  
.((((((((((..(((((..&.....)))))).....))))). -19.22  
>ENSG00000116273 hs-mir-211 657 664  
UUCCCUUUGUCAUCCUUCGCCU&UUGUAAAAGGGACAAUGUGGCCACUUCUCUGUGGAAAGGGAGU  
((((((((((((((..(((((..&.....)))))).....))))). -18.41  
>ENSG00000116273 hs-mir-211 1398 1405  
UUCCCUUUGUCAUCCUUCGCCU&UAGGUUUUCAUAAGCAUUGUUUCUUAAAGGCAUGGAAAGGGGAAG  
((((((((((((((..(((((..&..)))))).....))))). -21.05  
mir-211 ENSMUSG00000047777 3921 nt UTR 2 hits 534 2020

-----1-----  
-----1-----  
-----

>ENSMUSG00000047777 hs-mir-211 534 541  
UUCCCUUUGUCAUCCUUCGCCU&GGGGCAGUGGUUCUUGGGUUUUCACGGUUGGUUAAAAGGGAC  
.((((((((((((((..(((((..&.....)))))).....))))). -19.20  
>ENSMUSG00000047777 hs-mir-211 2020 2027  
UUCCCUUUGUCAUCCUUCGCCU&AGAUGGCGGAUCUGGCAGAGCUGAACUGAUGAAAAGGGAC  
.((((((((((((((..(((((..&.....)))))).....))))). -24.97  
mir-211 ENSRNOG00000009046 3640 nt UTR 4 hits 478 1888 3455 3465

-----1-----  
-----1-----2-----

>ENSRNOG00000009046 hs-mir-211 478 485  
UUCCCUUUGUCAUCCUUCGCCU&GGGGUGAGUGGUGGUUCUUGGUUUUUCACUGUUAAAAGGGAC  
.((((((((((((((..(((((..&..)))))).....))))). -25.05  
>ENSRNOG00000009046 hs-mir-211 1888 1895  
UUCCCUUUGUCAUCCUUCGCCU&GGGGUGAGUGGUGGUUCUUGGUUUUUCACUGUUAAAAGGGAC  
.((((((((((((((..(((((..&..)))))).....))))). -25.05  
>ENSRNOG00000009046 hs-mir-211 3455 3462  
UUCCCUUUGUCAUCCUUCGCCU&GCAAAGCUGACUGAUAAUGGCUUUUAGCACGAUGCAAAGGGAC  
.((((((((((((((..(((((..&.....)))))).....))))). -22.20  
>ENSRNOG00000009046 hs-mir-211 3465 3472  
UUCCCUUUGUCAUCCUUCGCCU&CUGAUAAUGGCUUUUAGCACGAUGCAAAGGGACCCAAAGGGAC  
.((((((((((((((..(((((..&.....)))))).....))))). -23.40

miRNA: mir-211  
Human predicted target: ENSG00000146826  
Mouse predicted target: ENSMUSG00000036948  
Rat predicted target: ENSRNOG00000001376

Hs Gene description: NM\_018275

mir-211 ENSG00000146826 2591 nt UTR 2 hits 851 1364

-----1-----1-----  
-----

>ENSG00000146826 hs-mir-211 851 858  
UUCCCUUUGUCAUCCUUCGCCU&AUCAGACUCAUGUUUAUUAGGGAGUGAGGGAGCACAAAGGGAGG  
((((((((((..(((((((((((&.....))))))))))..)))))))). -31.80

>ENSG00000146826 hs-mir-211 1364 1371  
UUCCCUUUGUCAUCCUUCGCCU&CCUUCUCAUUCACAAUUCUGAUACCAGGGAGUCCCAAAGGGAGG  
((((((((((..((((((((((.....&.....))))))))..)))))))). -21.90

mir-211 ENSMUSG00000036948 2583 nt UTR 2 hits 393 1483

-----1-----1-----  
-----

>ENSMUSG00000036948 hs-mir-211 393 400  
UUCCCUUUGUCAUCCUUCGCCU&CACCCGCAGGGCUGAGAUUAGAGGGUGGUAGUGGUAAAGGGAC  
((((((((((..(((((((((((&.....))))))))..)))))))). -26.60

>ENSMUSG00000036948 hs-mir-211 1483 1490  
UUCCCUUUGUCAUCCUUCGCCU&CCACCAAAGGCAGGAGCUCACCAGACAGGCGUUUGAAAGGGAU  
((((((((((..((((((((((..(((((&.....))))))))..)))))))). -20.60

mir-211 ENSRNOG00000001376 4714 nt UTR 2 hits 2519 3626

-----1-----1-----  
-----

>ENSRNOG00000001376 hs-mir-211 2519 2526  
UUCCCUUUGUCAUCCUUCGCCU&CACCUACAGGGCCAAGAUUAGAGGGUGGUAGUGGUAAAGGGAC  
((((((((((..(((((((((((&.....))))))))..)))))))). -26.60

>ENSRNOG00000001376 hs-mir-211 3626 3633  
UUCCCUUUGUCAUCCUUCGCCU&CCAACAAAGGCAGGAGCUCACCAGACAGGCGCUUGAAAGGGAU  
((((((((((..((((((((((..(((((&.....))))))))..)))))))). -20.60

miRNA: mir-211

Human predicted target: ENSG00000157540

Mouse predicted target: ENSMUSG00000022897

Rat predicted target: ENSRNOG00000001662

Hs Gene description: DUAL-SPECIFICITY TYROSINE-PHOSPHORYLATION REGULATED  
KINASE 1A (EC 2.7.1.-) (PROTEIN KINASE MINIBRAIN HOMOLOG) (MNBH) (HP86)  
(DUAL SPECIFICITY YAK1-RELATED KINASE). [Source:SWISSPROT;Acc:Q13627]

NM\_101395

mir-211 ENSG00000157540 4643 nt UTR 3 hits 159 575 1550

-----1-----1-----1-----  
-----

>ENSG00000157540 hs-mir-211 159 166  
UUCCCUUUGUCAUCCUUCGCCU&CAAAGCUGAUUUUUUUUUUAACUUGAAAAGAUUGCAAAGGGAC  
((((((((((..((((((((((..(((((&.....))))))))..)))))))). -21.30

>ENSG00000157540 hs-mir-211 575 582  
UUCCCUUUGUCAUCCUUCGCCU&CUCCAGCUUCCACAAACACCAUCUUCAGCUGUAUGAAAGGGAC



```

(((((((((((((.....&.....))))))))))))). -14.30
>ENSG00000157540 hs-mir-211 1550 1557
UCCCCUUGUCAUCCUUCGCCU&UGUUACAUCUAAGUGUGUUCAGGCUUCUGAAGGUAAAGGGAC
(((((((((((((.....&.....))))))))))))). -22.90
mir-211 ENSMUSG00000022897 4862 nt UTR 4 hits 162 570 1541 2790
-----1-----1-----1-----1-----
-----1-----
>ENSMUSG00000022897 hs-mir-211 162 169
UCCCCUUGUCAUCCUUCGCCU&AAAGCUGACUUUUUUUUUAACUUGAAAAGAUUGCAAAGGGAC
(((((((((((((.....&.....))))))))))))). -21.30
>ENSMUSG00000022897 hs-mir-211 570 577
UCCCCUUGUCAUCCUUCGCCU&CUCUAGCACACACAAACAUCAUCUUCAGCUGUGUGAAAGGGAC
(((((((((((((.....&.....))))))))))))). -14.90
>ENSMUSG00000022897 hs-mir-211 1541 1548
UCCCCUUGUCAUCCUUCGCCU&UGUCACAUCUAUAUGUGUUCAGGCUUCUGAAGGGAAAGGGAC
(((((((((((((.....&.....))))))))))))). -23.70
>ENSMUSG00000022897 hs-mir-211 2790 2797
UCCCCUUGUCAUCCUUCGCCU&GGUAGGUAAAGCAGGCACAAUCCUGUCGCCUAUGUAAAGGGAAA
(((((((((((((.....&.....))))))))))))). -17.39
mir-211 ENSRNOG00000001662 4611 nt UTR 4 hits 164 568 1545 2753
-----1-----1-----1-----1-----
-----1-----
>ENSRNOG00000001662 hs-mir-211 164 171
UCCCCUUGUCAUCCUUCGCCU&AAAGCUGACUUUUUUUUUAACUUGAAAAGAUUGCAAAGGGAC
(((((((((((((.....&.....))))))))))))). -21.30
>ENSRNOG00000001662 hs-mir-211 568 575
UCCCCUUGUCAUCCUUCGCCU&CUCCAGCACACACAAACAUCAUCUUCAGCUGUGUGAAAGGGAC
(((((((((((((.....&.....))))))))))))). -14.90
>ENSRNOG00000001662 hs-mir-211 1545 1552
UCCCCUUGUCAUCCUUCGCCU&UGUCACAUCUGAAUGUGCUCAGGCUUCUGAAGGGAAAGGGAU
(((((((((((((.....&.....))))))))))))). -23.80
>ENSRNOG00000001662 hs-mir-211 2753 2760
UCCCCUUGUCAUCCUUCGCCU&GUUAGGUCAAGCAGGCACAAUUUAGCGACCUGUGUAAAGGGAAA
(((((((((((((.....&.....))))))))))))). -19.62

```

miRNA: mir-212

Human predicted target: ENSG00000053254

Mouse predicted target: ENSMUSG00000033713

Rat predicted target: ENSRNOG00000004709

Hs Gene description: CHECKPOINT SUPPRESSOR 1 (FORKHEAD BOX PROTEIN N3).

[Source:SWISSPROT;Acc:O00409] NM\_005197

mir-212 ENSG00000053254 3029 nt UTR 3 hits 666 1599 2775

```

-----1-----1-----1-----1-----
-----1-----
>ENSG00000053254 hs-mir-212 666 673

```

UAACAGUCUCCAGUCACGGCC&CUGAAGCCCGAUGACAUCUACGAGGUGGACGUUGGACUGUUC  
.((((((((.....(((.....(((&.....)))))).....)))))))). -20.50  
>ENSG00000053254 hs-mir-212 1599 1606  
UAACAGUCUCCAGUCACGGCC&UGUUUAAGGUUUAACCUUCUUCAGGGACAAAUUCUGACUGUUGG  
((((((((.....(((.....(((&.....)))))).....)))))))). -15.29  
>ENSG00000053254 hs-mir-212 2775 2782  
UAACAGUCUCCAGUCACGGCC&ACCUCUCUCCUGAAAGGCAGAGGUUCAACAUUCAGGACUGUUU  
.((((((((.....(((.....(((&.....)))))).....)))))))). -16.92  
mir-212 ENSMUSG00000033713 2310 nt UTR 2 hits 690 1592

-----1-----1-----

>ENSMUSG00000033713 hs-mir-212 690 697  
UAACAGUCUCCAGUCACGGCC&CUUGAGCCUGGUAACAUCUCCAGGCUGAAUACCAGACUGUUC  
.((((((((.....(((.....(((&.....)))))).....)))))))). -20.22  
>ENSMUSG00000033713 hs-mir-212 1592 1599  
UAACAGUCUCCAGUCACGGCC&UGUUUAAGGUUUAACCUUCUUCAGGGACAAAUUCUGACUGUUGG  
((((((((.....(((.....(((&.....)))))).....)))))))). -15.29  
mir-212 ENSRNOG00000004709 3495 nt UTR 2 hits 610 1753

-----1-----1-----

>ENSRNOG00000004709 hs-mir-212 610 617  
UAACAGUCUCCAGUCACGGCC&CUUGAGCCUGGUAACAUCUCCAGGUUGGACACCAGACUGUUC  
.((((((((.....(((.....(((&.....)))))).....)))))))). -23.10  
>ENSRNOG00000004709 hs-mir-212 1753 1760  
UAACAGUCUCCAGUCACGGCC&CUUGAGCCUGGUAACAUCUCCAGGUUGGACACCAGACUGUUC  
.((((((((.....(((.....(((&.....)))))).....)))))))). -23.10

miRNA: mir-212  
Human predicted target: ENSG00000088448  
Mouse predicted target: ENSMUSG00000031508  
Rat predicted target: ENSRNOG00000013618  
Hs Gene description: ANKYRIN REPEAT DOMAIN PROTEIN 10.  
[Source:SWISSPROT;Acc:Q9NXR5]

mir-212 ENSG00000088448 3097 nt UTR 2 hits 763 1753  
-----1-----1-----

>ENSG00000088448 hs-mir-212 763 770  
UAACAGUCUCCAGUCACGGCC&UAUUUGUAGAAACUGUCAGGUCAAAAUUUUAACUGACUGUUGA  
((((((((.....(((.....(((&.....)))))).....)))))))). -16.05  
>ENSG00000088448 hs-mir-212 1753 1760  
UAACAGUCUCCAGUCACGGCC&UUUAAGAGAGAUGAAACUUGAUGCCAUCCCGUUUGGACUGUUU  
.((((((((.....(((.....(((&.....)))))).....)))))))). -17.03  
mir-212 ENSMUSG00000031508 2901 nt UTR 2 hits 1283 2888

-----1-----1-----

>ENSMUSG00000031508 hs-mir-212 1283 1290  
UAACAGUCUCCAGUCACGGCC&GGACAGAGAUGUUUGAGAAUUGCUUGGCACAAUGUGACUGUUGG

((((((((((..((.....(((&.....)))))).....)))))))). -18.30  
>ENSMUSG00000031508 hs-mir-212 2888 2895  
UAACAGUCUCCAGUCACGGCC&UCCAGGUGUCCUGAGCACCUCGUGUCUGCUGACCUGACUGUUGG  
((((((((((..((.....(((&.....)))))).....)))))))). -22.30  
mir-212 ENSRNOG00000013618 3017 nt UTR 2 hits 884 931  
-----1-1-----  
-----  
>ENSRNOG00000013618 hs-mir-212 884 891  
UAACAGUCUCCAGUCACGGCC&CUCUUGGUUGCUUUGGUGUCUAGCAUCCCUUGAAGACUGUUA  
((((((((((..((.....(((&.....)))))).....)))))))). -20.96  
>ENSRNOG00000013618 hs-mir-212 931 938  
UAACAGUCUCCAGUCACGGCC&GACCCUUAUUUACAGUUUCAAGUCAGAGGAGCUGACUGUUC  
.((((((((((..((.....(((&.....)))))).....)))))))). -15.60

miRNA: mir-212

Human predicted target: ENSG00000128595  
Mouse predicted target: ENSMUSG00000029767  
Rat predicted target: ENSRNOG00000006197  
Hs Gene description: CALUMENIN PRECURSOR (IEF SSP 9302).  
[Source:SWISSPROT;Acc:O43852]

mir-212 ENSG00000128595 4307 nt UTR 2 hits 82 652  
---1-----1-----  
-----  
>ENSG00000128595 hs-mir-212 82 89  
UAACAGUCUCCAGUCACGGCC&CUUCUGGUUUACAUGAAAUUGUUUGCGCUACUGAGACUGUUAC  
((((((((((..((.....(((&.....)))))).....)))))))). -22.70  
>ENSG00000128595 hs-mir-212 652 659  
UAACAGUCUCCAGUCACGGCC&CAAUUGAUUUUCUUCUUUUUCCCCUGUAGGACUGACUGUUGG  
((((((((((..((.....(((&.....)))))).....)))))))). -19.30  
mir-212 ENSMUSG00000029767 4164 nt UTR 2 hits 81 3261  
---1-----1-----  
-----  
>ENSMUSG00000029767 hs-mir-212 81 88  
UAACAGUCUCCAGUCACGGCC&UACAGCUCUGGUUUCACAUAAAUUGCGCUACUGAGACUGUUUAU  
((((((((((..((.....(((&.....)))))).....)))))))). -22.80  
>ENSMUSG00000029767 hs-mir-212 3261 3268  
UAACAGUCUCCAGUCACGGCC&GUUCUCCAGAGGUGAGAGUGCCACUUAGAAACUGUGACUGUUA  
((((((((((..((.....(((&.....)))))).....)))))))). -20.20  
mir-212 ENSRNOG00000006197 4094 nt UTR 2 hits 88 3198  
---1-----1-----  
-----  
>ENSRNOG00000006197 hs-mir-212 88 95  
UAACAGUCUCCAGUCACGGCC&GGUCUGGUUUACAUAAAUUGUUUGCGCUACUGAGACUGUUUAU  
((((((((((..((.....(((&.....)))))).....)))))))). -21.75

>ENSRNOG00000006197 hs-mir-212 3198 3205  
UAACAGUCUCCAGUCACGGCC&GUUCUCCAGAGAUGAAGGUAUCACUUAGAAACUGUGACUGUUGA  
((((((((((..((((((..(((&.....)))))).....)))).)))))). -18.30

miRNA: mir-212

Human predicted target: ENSG00000160392  
Mouse predicted target: ENSMUSG00000049643  
Rat predicted target: ENSRNOG00000018408

mir-212 ENSG00000160392 2816 nt UTR 2 hits 621 853

-----1-----1-----  
-----

>ENSG00000160392 hs-mir-212 621 628  
UAACAGUCUCCAGUCACGGCC&GGCCCCUCGUCGGCGGUGGCGUCGAGCCUGUUGAGACUGUUGA  
((((((((((..((((((..(((&.....)))))).....)))).)))))). -29.94

>ENSG00000160392 hs-mir-212 853 860  
UAACAGUCUCCAGUCACGGCC&AAUCAUUUCCCCACUCCUUCAGGGUGAGUUGCAGGACUGUUU  
..((((((((((..((((((..(((&.....)))))).....)))).)))))). -18.50

mir-212 ENSMUSG00000049643 2000 nt UTR 2 hits 614 797

-----1-----1-----  
-----

>ENSMUSG00000049643 hs-mir-212 614 621  
UAACAGUCUCCAGUCACGGCC&GGCCCCUCGUCGACGGUGGCGGCGAACCUGUAAAGACUGUUGA  
((((((((((..((((((..(((&.....)))))).....)))).)))))). -25.20

>ENSMUSG00000049643 hs-mir-212 797 804  
UAACAGUCUCCAGUCACGGCC&GUGACUGCUGUUUUAUAUAUUUUUGUGACUUUGAGACUGUUU  
..((((((((((..((((((..(((&.....)))))).....)))).)))))). -26.30

mir-212 ENSRNOG00000018408 2000 nt UTR 2 hits 613 797

-----1-----1-----  
-----

>ENSRNOG00000018408 hs-mir-212 613 620  
UAACAGUCUCCAGUCACGGCC&GGCCCCUCGUCGACGGUGGCGGCGAACCUGUAAAGACUGUUGA  
((((((((((..((((((..(((&.....)))))).....)))).)))))). -25.20

>ENSRNOG00000018408 hs-mir-212 797 804  
UAACAGUCUCCAGUCACGGCC&AUGACUGCUGUUUUAUAUAUUUUUGUGACUUUCAGACUGUUU  
..((((((((((..((((((..(((&.....)))))).....)))).)))))). -23.20

miRNA: mir-214

Human predicted target: ENSG00000114738  
Mouse predicted target: ENSMUSG00000032577  
Rat predicted target: ENSRNOG00000014832  
Hs Gene description: MITOGEN-ACTIVATED PROTEIN KINASE-ACTIVATED PROTEIN  
KINASE 3; MAPKAP KINASE 3. [Source:RefSeq;Acc:NM\_004635] NM\_004635

mir-214 ENSG00000114738 3242 nt UTR 3 hits 232 1547 1570

-----1-----1-----  
-----

>ENSG00000114738 hs-mir-214 232 239

```

ACAGCAGGCACAGACAGGCAG&CCUAGAGAUGGGCAGGGCCUAGGGGCUGGGAGCUGCCUGCUGC
.(((((((((((((((((..&.....)))))).)))).)))). -29.50
>ENSG00000114738 hs-mir-214 1547 1554
ACAGCAGGCACAGACAGGCAG&UCUGCCCAGAGUGGCCACCCCAGCUGUGUGCCAGCCUGCUGA
.(((((((((((((((((..&.....)))))).)))).)))). -29.10
>ENSG00000114738 hs-mir-214 1570 1577
ACAGCAGGCACAGACAGGCAG&GCUGUGUGCCAGCCUGCUGAAGGGCGGGCAGAGUGCCUGCUGC
.(((((((((((((((((..&.....)))))).)))).)))). -32.43
mir-214 ENSMUSG00000032577 3252 nt UTR 4 hits 337 1552 1575 3074
-----1-----2-----
-----1-----
>ENSMUSG00000032577 hs-mir-214 337 344
ACAGCAGGCACAGACAGGCAG&UGGCGGAUAUACCCGUUUUUCUAUAAAGGAUGUGUCCUGCUGUG
(((((((((((((((((..&.....)))))).)))).)))). -26.50
>ENSMUSG00000032577 hs-mir-214 1552 1559
ACAGCAGGCACAGACAGGCAG&UCUGCCCACAGUGGCCACCCCAGCUGCGUGCCAGCCUGCUGA
.(((((((((((((((((..&.....)))))).)))).)))). -28.30
>ENSMUSG00000032577 hs-mir-214 1575 1582
ACAGCAGGCACAGACAGGCAG&GCUGCGUGCCAGCCUGCUGAAGGGCGGGCAGAGCGCCUGCUGC
.(((((((((((((((((..&.....)))))).)))).)))). -29.99
>ENSMUSG00000032577 hs-mir-214 3074 3081
ACAGCAGGCACAGACAGGCAG&UAGUUUUGGAAUGGCUGUUACAGAUCUGGACUUCUGCUGG
.(((((((((((((((((..&.....)))))).)))).)))). -24.31
mir-214 ENSRNOG00000014832 3117 nt UTR 4 hits 332 1273 2405 2428
-----1-----1-----
-----11-----
>ENSRNOG00000014832 hs-mir-214 332 339
ACAGCAGGCACAGACAGGCAG&GUGGUGGAUCUACCCUUUUUCUAUAAAGGAUGUAUCCUGCUGUG
(((((((((((((((((..&.....)))))).)))).)))). -21.80
>ENSRNOG00000014832 hs-mir-214 1273 1280
ACAGCAGGCACAGACAGGCAG&GUGGUGGAUCUACCCUUUUUCUAUAAAGGAUGUAUCCUGCUGUG
(((((((((((((((((..&.....)))))).)))).)))). -21.80
>ENSRNOG00000014832 hs-mir-214 2405 2412
ACAGCAGGCACAGACAGGCAG&UCUGCCCACAGUGGCCACCCCAGCUGCGUGCCAGCCUGCUGA
.(((((((((((((((((..&.....)))))).)))).)))). -28.30
>ENSRNOG00000014832 hs-mir-214 2428 2435
ACAGCAGGCACAGACAGGCAG&GCUGCGUGCCAGCCUGCUGAAGGGCGGGCAGAGUGCCUGCUGC
.(((((((((((((((((..&.....)))))).)))).)))). -32.43

```

miRNA: mir-214

Human predicted target: ENSG00000144233

Mouse predicted target: ENSMUSG00000041915

Rat predicted target: ENSRNOG00000016250

mir-214 ENSG00000144233 5464 nt UTR 3 hits 741 1845 4824

```

-----1-----
1-----
-----1-----

```

```

>ENSG00000144233 hs-mir-214      741      748
ACAGCAGGCACAGACAGGCAG&GUCUCCUGAUUACUGAACAGAGCUCGUGCAUGUAGCCUGCUGA
.((((((((((((((((((..&.....)))))))).))))). -30.50
>ENSG00000144233 hs-mir-214     1845     1852
ACAGCAGGCACAGACAGGCAG&AUGUAAAUGAAGAUGGAGGGGUCGUUUCGUGAUUCCUGCUGC
.((((((((((((((((((..&.....)))))))).))))). -23.40
>ENSG00000144233 hs-mir-214     4824     4831
ACAGCAGGCACAGACAGGCAG&GAGAGGUCUCCAGUUCACCAUCAGUCCUCAAGUCCUGCUGC
.((((((((((((((((((..&.....)))))))).))))). -21.40
mir-214      ENSMUSG00000041915  5013 nt UTR      3 hits 143 703 727
-----1-----11-----
-----
>ENSMUSG00000041915 hs-mir-214    143      150
ACAGCAGGCACAGACAGGCAG&UUUUUAUGAUGCUAGCUUCCGUUGCCAAGUCUGCCUCCUGCUGA
.((((((((((((((((((&.....)))))))).))))). -29.90
>ENSMUSG00000041915 hs-mir-214    703      710
ACAGCAGGCACAGACAGGCAG&AGUGGACAUUCUGGUACUCUCCUGCAUUGAGUCUCCUGCUGUG
((((((((((((((((((..&.....)))))))).))))). -25.80
>ENSMUSG00000041915 hs-mir-214    727      734
ACAGCAGGCACAGACAGGCAG&GCAUUGAGUCUCCUGCUGUGAGCUCUGUGGCAUAGCCUGCUGA
.((((((((((((((((((&.....)))))))).))))). -29.50
mir-214      ENSRNOG00000016250  4098 nt UTR      4 hits 305 898 2833 3426
-----1-----1-----1-----1-----
-----
>ENSRNOG00000016250 hs-mir-214    305      312
ACAGCAGGCACAGACAGGCAG&UUUUUAUGAUGCUAGCUUCCGUUGCCAAGUCUGCCUCCUGCUGA
.((((((((((((((((((&.....)))))))).))))). -29.90
>ENSRNOG00000016250 hs-mir-214    898      905
ACAGCAGGCACAGACAGGCAG&AGUCUCCUGGUGUUGAACAGAGCUCUGUGGCAUAGCCUGCUGA
.((((((((((((((((((&...)))))))).))))). -26.53
>ENSRNOG00000016250 hs-mir-214   2833     2840
ACAGCAGGCACAGACAGGCAG&UUUUUAUGAUGCUAGCUUCCGUUGCCAAGUCUGCCUCCUGCUGA
.((((((((((((((((((&.....)))))))).))))). -29.90
>ENSRNOG00000016250 hs-mir-214   3426     3433
ACAGCAGGCACAGACAGGCAG&AGUCUCCUGGUGUUGAACAGAGCUCUGUGGCAUAGCCUGCUGA
.((((((((((((((((((&...)))))))).))))). -26.53

```

```

miRNA: mir-214
Human predicted target: ENSG00000172425
Mouse predicted target: ENSMUSG00000039438
Rat predicted target: ENSRNOG00000014700
mir-214      ENSG00000172425      2000 nt UTR      3 hits 818 1143 1219
-----1-----1-----1-----
-----
>ENSG00000172425 hs-mir-214      818      825

```

ACAGCAGGCACAGACAGGCAG&UGGAGAGUAAAUUCCUGGAGCAAUUGCUAGGCCUGCCUGCUGUC  
((((((((((.....((((((&.....)))))).)))).)))). -27.00  
>ENSG00000172425 hs-mir-214 1143 1150  
ACAGCAGGCACAGACAGGCAG&CCCUGGUGAGAGGACUCAGGUGCCCUUCCUUUGGCCUGCUGC  
((((((((((.....((((((&.....)))))).)))).)))). -27.20  
>ENSG00000172425 hs-mir-214 1219 1226  
ACAGCAGGCACAGACAGGCAG&AGUACCAACCGUGCCUGAGCCCUUCCCAGAGGCCUCCUGCUGUG  
((((((((((.....((((((&.....)))))).)))).)))). -24.55  
mir-214 ENSMUSG00000039438 2071 nt UTR 2 hits 964 1024

-----1-1-----  
-----  
>ENSMUSG00000039438 hs-mir-214 964 971  
ACAGCAGGCACAGACAGGCAG&UCCUGGUCAGAGAAACCAGCUGCCUGUCUCUUGGCCUGCUGC  
((((((((((.....((((((&.....)))))).)))).)))). -35.00  
>ENSMUSG00000039438 hs-mir-214 1024 1031  
ACAGCAGGCACAGACAGGCAG&UCACUGUGGUCUCUCCAAGUGCCUCCCAGCGGCUGCCUGCUGUG  
((((((((((.....((((((&.....)))))).)))).)))). -29.20  
mir-214 ENSRNOG00000014700 2069 nt UTR 2 hits 1050 1110

-----1-1-----  
-----  
>ENSRNOG00000014700 hs-mir-214 1050 1057  
ACAGCAGGCACAGACAGGCAG&UCCUGGUGGGAGAAACCAGCUGCCUGUCUCUUGGCCUGCUGC  
((((((((((.....((((((&.....)))))).)))).)))). -35.00  
>ENSRNOG00000014700 hs-mir-214 1110 1117  
ACAGCAGGCACAGACAGGCAG&UCACCCUGGUCUCUCCAAGCCCUCCCAGAGGCUGCCUGCUGUG  
((((((((((.....((((((&.....)))))).)))).)))). -26.40

miRNA: mir-214  
Human predicted target: ENSG00000178209  
Mouse predicted target: ENSMUSG00000034332  
Mouse predicted target: ENSMUSG00000047477  
Mouse predicted target: ENSMUSG00000051472  
Mouse predicted target: ENSMUSG00000044374  
Rat predicted target: ENSRNOG00000004361  
Rat predicted target: ENSRNOG00000010499  
Hs Gene description: PLECTIN 1 (PLTN) (PCN) (HEMIDESMOSOMAL PROTEIN 1)  
(HD1). [Source:SWISSPROT;Acc:Q15149] NM\_031308  
mir-214 ENSG00000178209 3024 nt UTR 3 hits 194 1251 2060

-----1-----1-----  
-----1-----  
>ENSG00000178209 hs-mir-214 194 201  
ACAGCAGGCACAGACAGGCAG&ACAGCCUGUAUCUUGGGGACAGGGCUGGCCAGCCUGCUGG  
((((((((((.....((((((&.....)))))).)))).)))). -26.89  
>ENSG00000178209 hs-mir-214 1251 1258  
ACAGCAGGCACAGACAGGCAG&GGGUGGUGCCACACUGAGGCCGGGCCCCUGGGACCUGCUGC  
((((((((((.....((((((&.....)))))).)))).)))). -25.50  
>ENSG00000178209 hs-mir-214 2060 2067

ACAGCAGGCACAGACAGGCAG&ACCCUCCCUGCCCCGGCCCGGUAGAGGGUGCUCUGCCUGCUGG  
.(((((((((((((.((((.(((((&.....))))).)))))))))). -29.89  
mir-214 ENSMUSG00000034332 2001 nt UTR 1 hits 1402  
-----1-----  
-----  
>ENSMUSG00000034332 hs-mir-214 1402 1409  
ACAGCAGGCACAGACAGGCAG&CUGGAAGGUUGAGAACUACGCUGCAGGCGGUGUCACCUGCUGC  
.(((((((((((((.((((.(((((&.....))))).)))))))))). -24.80  
mir-214 ENSMUSG00000047477 2000 nt UTR 3 hits 406 1440 1928  
-----1-----1-----  
---1--  
>ENSMUSG00000047477 hs-mir-214 406 413  
ACAGCAGGCACAGACAGGCAG&CCCCAGACCUCUAAGCCAACCCCACUGGAUGUCUACCUGCUGG  
.(((((((((((((.((((.(((((&.....))))).)))))))))). -26.50  
>ENSMUSG00000047477 hs-mir-214 1440 1447  
ACAGCAGGCACAGACAGGCAG&AGAGUGGAGAAGGGAGCAGGCUGCACUGAGGUGGGCCUGCUGUG  
(((((((((((((.((((.(((((&.....))))).)))))))))). -31.10  
>ENSMUSG00000047477 hs-mir-214 1928 1935  
ACAGCAGGCACAGACAGGCAG&ACUAGGGCCACCCUUGCCAGGUGUCAGCAGCCUACCUGCUGG  
.(((((((((((((.((((.(((((&.....))))).)))))))))). -23.04  
mir-214 ENSMUSG00000051472 2000 nt UTR 1 hits 156  
-----1-----  
-----  
>ENSMUSG00000051472 hs-mir-214 156 163  
ACAGCAGGCACAGACAGGCAG&UUCUACCGAGAGGUGCCUGAGAGUCUGCGCCAGGACCUGCUGC  
.(((((((((((((.((((.(((((&.....))))).)))))))))). -28.10  
mir-214 ENSMUSG00000044374 2821 nt UTR 1 hits 1110  
-----1-----  
-----  
>ENSMUSG00000044374 hs-mir-214 1110 1117  
ACAGCAGGCACAGACAGGCAG&AUUCAAGUGCAAGGUUUUCCUCCGGUCACAGAUCUCCUGCUGG  
.(((((((((((((.((((.(((((&.....))))).)))))))))). -20.70  
mir-214 ENSRNOG00000004361 2000 nt UTR 4 hits 686 806 1011 1878  
-----1-----1-----1-----  
-1----  
>ENSRNOG00000004361 hs-mir-214 686 693  
ACAGCAGGCACAGACAGGCAG&GGGUUUGGGCUCUACCACCCCUAGAUGACCCCCCCCUGCUGUC  
(((((((((((((.((((.(.....&..))))).)))))))))). -19.21  
>ENSRNOG00000004361 hs-mir-214 806 813  
ACAGCAGGCACAGACAGGCAG&UGUGACCGCUCCAUCACUGUCACAAGGCUUGAGGACCUGCUGC  
.(((((((((((((.((((.(.....&..))))).)))))))))). -24.00  
>ENSRNOG00000004361 hs-mir-214 1011 1018  
ACAGCAGGCACAGACAGGCAG&UGGUGGGCUGGGAUGAGCCCCGCCCAACCCGAGAGCCUGCUGA  
.(((((((((((((.((((.(.....&..))))).)))))))))). -24.23  
>ENSRNOG00000004361 hs-mir-214 1878 1885  
ACAGCAGGCACAGACAGGCAG&GCCAGAGGGGCUGUGUUGACCAGGACAUAAGGUCGACCUGCUGC  
.(((((((((((((.((((.(.....&..))))).)))))))))). -24.65  
mir-214 ENSRNOG00000010499 2000 nt UTR 2 hits 156 1186



-----1-----1-----  
-----

>ENSRNOG00000010499 hs-mir-214 156 163  
ACAGCAGGCACAGACAGGCAG&UUCUACAGAGAGGUGCCCAGAGUCUGCGCCAGGACCUGCUGC  
.(((((((((.(((((.(((.&.....))))).)))))).).....)))))))). -26.10  
>ENSRNOG00000010499 hs-mir-214 1186 1193  
ACAGCAGGCACAGACAGGCAG&UUCUACAGAGAGGUGCCCAGAGUCUGCGCCAGGACCUGCUGC  
.(((((((((.(((((.(((.&.....))))).)))))).).....)))))))). -26.10

miRNA: mir-214

Human predicted target: ENSG00000181722

Mouse predicted target: ENSMUSG00000022708

Rat predicted target: ENSRNOG00000001529

Rat predicted target: ENSRNOG00000001966

Hs Gene description: ZINC FINGER PROTEIN 288 (DENDRITIC-DERIVED BTB/POZ  
ZINC FINGER PROTEIN). [Source:SWISSPROT;Acc:Q9HC78] NM\_015642

mir-214 ENSG00000181722 2321 nt UTR 3 hits 167 533 1377

-----1-----1-----1-----  
-----

>ENSG00000181722 hs-mir-214 167 174  
ACAGCAGGCACAGACAGGCAG&GUUUCAUUUUGUACUACAUGAAGAACUGUUUUUUGCCUGCUGG  
.(((((((((.(((((.(((.&.....))))).)))))).).....)))))))). -28.80

>ENSG00000181722 hs-mir-214 533 540  
ACAGCAGGCACAGACAGGCAG&AAUAUCACUUCUGGUUGAAAACCCAGAGGAAAGGCCUGCUGUU  
(((((((((.(((.&.....))))).)))))).).....)))))))). -19.30

>ENSG00000181722 hs-mir-214 1377 1384  
ACAGCAGGCACAGACAGGCAG&CCUGGGUUGAUGAGGGCCUCUGUGGCCAGCCCAUCCUGCUGUA  
(((((((((.(((((.(((.&.....))))).)))))).).....)))))))). -28.50

mir-214 ENSMUSG00000022708 2327 nt UTR 4 hits 180 533 661 1475

-----1-----1-----1-----1-----  
-----

>ENSMUSG00000022708 hs-mir-214 180 187  
ACAGCAGGCACAGACAGGCAG&GUUUCAUUUUGUACUACAUGAAGAACUGUUUUUUGCCUGCUGG  
.(((((((((.(((((.(((.&.....))))).)))))).).....)))))))). -28.80

>ENSMUSG00000022708 hs-mir-214 533 540  
ACAGCAGGCACAGACAGGCAG&GAAGAGCACUACAGAGUUUCUAGGAGCUGUAAGGCCUGCUGUC  
(((((((((.(((((.(((.&.....))))).)))))).).....)))))))). -27.00

>ENSMUSG00000022708 hs-mir-214 661 668  
ACAGCAGGCACAGACAGGCAG&AAUAUCACUUCUGGUUGAAAACCCAGAGGAAUGGCCUGCUGUU  
(((((((((.(((.&.....))))).)))))).).....)))))))). -21.19

>ENSMUSG00000022708 hs-mir-214 1475 1482  
ACAGCAGGCACAGACAGGCAG&GCCUGGGUUGCUAAGGGCCUCCGAGGCCCGCCACCCUGCUGUA  
(((((((((.(((((.(((.&.....))))).)))))).).....)))))))). -25.03

mir-214 ENSRNOG00000001529 2345 nt UTR 4 hits 183 524 652 1472

-----1-----1-----1-----1-----  
-----

>ENSRNOG00000001529 hs-mir-214 183 190

ACAGCAGGCACAGACAGGCAG&GUUUCAUUUUGUACUACAUGAAGAACUGUUUUUUGCCUGCUGG  
.(((((((((((((.....&.....)))))))).))))). -28.80  
>ENSRNOG00000001529 hs-mir-214 524 531  
ACAGCAGGCACAGACAGGCAG&AAGAGCACUACAAAUUUAUACGAGAUGUAAAGGCCUGCUGUC  
(((((((((((((.....&.....)))))))).))))). -24.40  
>ENSRNOG00000001529 hs-mir-214 652 659  
ACAGCAGGCACAGACAGGCAG&AAUAUCACUUCUGGUUGAAAACCCAGAGGAAAGGCCUGCUGUU  
(((((((((((((.....(((&.....)))))).))))). -19.30  
>ENSRNOG00000001529 hs-mir-214 1472 1479  
ACAGCAGGCACAGACAGGCAG&GCCUGGGUUGCUGAGGGCCUCCGAGGCCCGCCCGCCUGCUGUA  
(((((((((((((.....(((((..&)))))).))))). -26.45  
mir-214 ENSRNOG00000001966 2395 nt UTR 4 hits 183 516 644 1464  
-----1-----1-----1-----1-----

>ENSRNOG00000001966 hs-mir-214 183 190  
ACAGCAGGCACAGACAGGCAG&GUUUCAUUUUGUACUACAUGAAGAACUGUUUUUUGCCUGCUGG  
.(((((((((((((.....&.....)))))))).))))). -28.80  
>ENSRNOG00000001966 hs-mir-214 516 523  
ACAGCAGGCACAGACAGGCAG&AAGAGCACUACAAAUUUAUACGAGAUGUAAAGGCCUGCUGUC  
(((((((((((((.....&.....)))))))).))))). -24.40  
>ENSRNOG00000001966 hs-mir-214 644 651  
ACAGCAGGCACAGACAGGCAG&AAUAUCACUUCUGGUUGAAAACCCAGAGGAAAGGCCUGCUGUU  
(((((((((((((.....(((&.....)))))).))))). -19.30  
>ENSRNOG00000001966 hs-mir-214 1464 1471  
ACAGCAGGCACAGACAGGCAG&GCCUGGGUUGCUGAGGGCCUCCGAGGCCCGCCCGCCUGCUGUA  
(((((((((((((.....(((((..&)))))).))))). -26.45

miRNA: mir-216  
Human predicted target: ENSG00000065978  
Mouse predicted target: ENSMUSG00000028639  
Rat predicted target: ENSRNOG00000008122  
Hs Gene description: NUCLEASE SENSITIVE ELEMENT BINDING PROTEIN 1 (Y BOX  
BINDING PROTEIN-1) (Y-BOX TRANSCRIPTION FACTOR) (YB-1) (CCAAT-BINDING  
TRANSCRIPTION FACTOR I SUBUNIT A) (CBF-A) (ENHANCER FACTOR I SUBUNIT A)  
(EFI-A) (DNA-BINDING PROTEIN B) (DBPB). [Source:SWISSPROT;Acc:P16991]  
mir-216 ENSG00000065978 2401 nt UTR 2 hits 293 1979

-----1-----  
-----1-----  
>ENSG00000065978 hs-mir-216 293 300  
UAAUCUCAGCUGGCAACUGUG&UAAAGGUUUUUAAAUGUUUCAUAUCUGGUCAAGUUGAGAUUU  
.(((((((((((((...(((&.....)))))))).))))). -20.60  
>ENSG00000065978 hs-mir-216 1979 1986  
UAAUCUCAGCUGGCAACUGUG&CAAAAACAUUGGUUAAACAUCCAAUAUGUUAGAAUGAGAUUC  
.(((((((((((((.....&.....)))))))).))))). -17.10  
mir-216 ENSMUSG00000028639 2416 nt UTR 2 hits 310 1261  
-----1-----1-----1-----1-----

>ENSMUSG00000028639 hs-mir-216 310 317  
UAAUCUCAGCUGGCAACUGUG&UAACGGUUUUUAAAUUGUUUCAUAUCUGGUCAAGUUGAGAUUU  
.((((((((((((((...((((&.....))))))....)))))))). -20.60

>ENSMUSG00000028639 hs-mir-216 1261 1268  
UAAUCUCAGCUGGCAACUGUG&UAACGGUUUUUAAAUUGUUUCAUAUCUGGUCAAGUUGAGAUUU  
.((((((((((((((...((((&.....))))))....)))))))). -20.60

mir-216 ENSRNOG00000008122 2417 nt UTR 2 hits 310 1127  
-----1-----1-----

>ENSRNOG00000008122 hs-mir-216 310 317  
UAAUCUCAGCUGGCAACUGUG&UAACGGUUUUUAAAUUGUUUCAUAUCUGGUCAAGUUGAGAUUU  
.((((((((((((((...((((&.....))))))....)))))))). -20.60

>ENSRNOG00000008122 hs-mir-216 1127 1134  
UAAUCUCAGCUGGCAACUGUG&UAACGGUUUUUAAAUUGUUUCAUAUCUGGUCAAGUUGAGAUUU  
.((((((((((((((...((((&.....))))))....)))))))). -20.60

miRNA: mir-216

Human predicted target: ENSG00000120705

Mouse predicted target: ENSMUSG00000024360

Rat predicted target: ENSRNOG00000019450

Hs Gene description: EUKARYOTIC PEPTIDE CHAIN RELEASE FACTOR SUBUNIT 1  
(ERF1) (EUKARYOTIC RELEASE FACTOR 1) (TB3-1) (C11 PROTEIN).

[Source:SWISSPROT;Acc:P46055] NM\_004730

mir-216 ENSG00000120705 4206 nt UTR 2 hits 952 2224  
-----1-----

>ENSG00000120705 hs-mir-216 952 959  
UAAUCUCAGCUGGCAACUGUG&GGGAGGUGGAUGUGUUUCCUUGUGUUGGAUGGCAUGAGAUUUAU  
((((((((((((((...((((&.....))))))....)))))))). -20.70

>ENSG00000120705 hs-mir-216 2224 2231  
UAAUCUCAGCUGGCAACUGUG&UAUUAACCAUAUUUAAGAAUAUACUUUGUGUGCUUGAGAUUU  
.((((((((((((((...((((&.....))))))....)))))))). -15.00

mir-216 ENSMUSG00000024360 2506 nt UTR 2 hits 933 2217  
-----1-----

>ENSMUSG00000024360 hs-mir-216 933 940  
UAAUCUCAGCUGGCAACUGUG&GGGAGGCGGUGGUGUUUCCUUGUGUUGGAUGGCAUGAGAUUUAU  
((((((((((((((...((((&.....))))))....)))))))). -20.70

>ENSMUSG00000024360 hs-mir-216 2217 2224  
UAAUCUCAGCUGGCAACUGUG&UAUUAACCAUAUUUAAGAAUAUACUUUGUGUGCUUGAGAUUU  
.((((((((((((((...((((&.....))))))....)))))))). -14.30

mir-216 ENSRNOG00000019450 3037 nt UTR 3 hits 903 1534 2800  
-----1-----1-----

>ENSRNOG00000019450 hs-mir-216 903 910  
UAAUCUCAGCUGGCAACUGUG&AGGGAGGUGGUGGUGUUUCCUUGUGUUGGAUGGCAUGAGAUUUAU

(((((((((((((((((.....&.....)))))))).))))). -20.70  
>ENSRNOG00000019450 hs-mir-216 1534 1541  
UAAUCUCAGCUGGCAACUGUG&AGGGAGGUGGUGGUGUUUCCUUGUGUUGGAUGGCAUGAGAUUUAU  
(((((((((((((((((.....&.....)))))))).))))). -20.70  
>ENSRNOG00000019450 hs-mir-216 2800 2807  
UAAUCUCAGCUGGCAACUGUG&UAUUAACCAUAUUUAAGAAUAUAUUUUGUGUGCUUGAGAUUU  
(((((((((((((((((.....&.....)))))))).))))). -14.30

miRNA: mir-216  
Human predicted target: ENSG00000143614  
Mouse predicted target: ENSMUSG00000042390  
Rat predicted target: ENSRNOG00000015553  
Hs Gene description: TRANSCRIPTION REPRESSOR P66 COMPONENT OF THE MECP1  
COMPLEX. [Source:RefSeq;Acc:NM\_020699] NM\_020699  
mir-216 ENSG00000143614 5548 nt UTR 2 hits 1133 2371

-----1-----  
-----1-----  
-----1-----

>ENSG00000143614 hs-mir-216 1133 1140  
UAAUCUCAGCUGGCAACUGUG&ACUAGACGAAAGAAAGGAUUUCUCUCCAACAGUUGAGAUUC  
(((((((((((((((((.....&.....)))))))).))))). -19.90  
>ENSG00000143614 hs-mir-216 2371 2378  
UAAUCUCAGCUGGCAACUGUG&GUGCUCAGAGGUACGAGAUGCCCAAGUUUGUCAGUUGAGAUUAA  
(((((((((((((((((.....&.....)))))))).))))). -27.90  
mir-216 ENSMUSG00000042390 2118 nt UTR 2 hits 885 1105

-----1-----1-----  
-----1-----

>ENSMUSG00000042390 hs-mir-216 885 892  
UAAUCUCAGCUGGCAACUGUG&UGAGGACACAGAAGUCUGUUCAGGCCAACCAUCUUGAGAUUGU  
(((((((((((((((((.....&.....)))))))).))))). -19.56  
>ENSMUSG00000042390 hs-mir-216 1105 1112  
UAAUCUCAGCUGGCAACUGUG&ACAUAGAGGAGGAGGAAGAGUUUCUCCCGAAGUUGAGAUUC  
(((((((((((((((((.....&.....)))))))).))))). -18.11  
mir-216 ENSRNOG00000015553 5399 nt UTR 6 hits 875 2208 2496 3477  
4935 5223

-----1-----  
-----1-----1-----  
-----1-----1-----

>ENSRNOG00000015553 hs-mir-216 875 882  
UAAUCUCAGCUGGCAACUGUG&UGAGGACACAGAAGUCUGUUCAGGCCAAUCAUCUUGAGAUUGU  
(((((((((((((((((.....&.....)))))))).))))). -19.56  
>ENSRNOG00000015553 hs-mir-216 2208 2215  
UAAUCUCAGCUGGCAACUGUG&GUGCUCAGAGGUACACGGUGCCCAAGUUUUCAGUUGAGAUUAA  
(((((((((((((((((.....&.....)))))))).))))). -25.82  
>ENSRNOG00000015553 hs-mir-216 2496 2503  
UAAUCUCAGCUGGCAACUGUG&UGCUAGUGUAGCUCUGUGGCCCUUGCUCAGUCACUGAGAUUU  
(((((((((((((((((.....&.....)))))))).))))). -20.00

>ENSRNOG00000015553 hs-mir-216 3477 3484  
UAAUCUCAGCUGGCAACUGUG&UGAGGACACAGAAGUCUGUUCAGGCCAAUCAUCUUGAGAUUGU  
(((((((((((((..((((&.....)))))).....)))))))). -19.56  
>ENSRNOG00000015553 hs-mir-216 4935 4942  
UAAUCUCAGCUGGCAACUGUG&GUGCUCAGAGGUACACGGUGCCCAAGUUUUUCAGUUGAGAUUAA  
(((((((((((((((..((((&.....)))))).....)))))))). -25.82  
>ENSRNOG00000015553 hs-mir-216 5223 5230  
UAAUCUCAGCUGGCAACUGUG&UGCUAGUGUAGCUCUGUGGCCCUUUGCUCAGUCACUGAGAUUU  
..(((((((((((((((.....&.....)))))).)))). -20.00

miRNA: mir-216

Human predicted target: ENSG00000149126  
Mouse predicted target: ENSMUSG00000024695  
Rat predicted target: ENSRNOG00000012524  
Hs Gene description: ZINC FINGER PROTEIN 91 ISOFORM 1.  
[Source:RefSeq;Acc:NM\_053023]

mir-216 ENSG00000149126 5340 nt UTR 2 hits 839 1141  
-----1-----1-----  
-----

>ENSG00000149126 hs-mir-216 839 846  
UAAUCUCAGCUGGCAACUGUG&CACUUUGAACAUUGUGUGUUUUUGUGUUGUGGAACCUGAGAUUC  
..(((((((((((((..(((.....&.....)))))).....)))))))). -18.80

>ENSG00000149126 hs-mir-216 1141 1148  
UAAUCUCAGCUGGCAACUGUG&AAGAAUGUUAGGUUCAUGGUAACUAGUAUGCUCUUUGAGAUUU  
..(((((((((((((((..(((.....&.....)))))).)))).)))). -19.40  
mir-216 ENSMUSG00000024695 2110 nt UTR 2 hits 789 1083  
-----1-----1-----  
-----

>ENSMUSG00000024695 hs-mir-216 789 796  
UAAUCUCAGCUGGCAACUGUG&GCACUUUGAACAUUGUGUGUUUUUGUGUUGUGGAACCUGAGAUUC  
..(((((((((((((..(((.....&.....)))))).....)))))))). -18.80

>ENSMUSG00000024695 hs-mir-216 1083 1090  
UAAUCUCAGCUGGCAACUGUG&AAGUUUGAUAGGUUUUGUGGUAACUAGUGUGCUCUUUGAGAUUU  
..(((((((((((((((..(((.....&.....)))))).)))).)))). -19.40  
mir-216 ENSRNOG00000012524 2000 nt UTR 2 hits 814 1108  
-----1-----1-----  
-----

>ENSRNOG00000012524 hs-mir-216 814 821  
UAAUCUCAGCUGGCAACUGUG&CACUUUGAACAUUGUGUGUUUUUGUGUUGUGGAACCUGAGAUUC  
..(((((((((((((..(((.....&.....)))))).....)))))))). -18.80

>ENSRNOG00000012524 hs-mir-216 1108 1115  
UAAUCUCAGCUGGCAACUGUG&AAGUUUGAUAGGUUUUGUGGUAACUAGUGUGCUCUUUGAGAUUU  
..(((((((((((((((..(((.....&.....)))))).)))).)))). -19.40

miRNA: mir-216

Human predicted target: ENSG00000182324  
Mouse predicted target: ENSMUSG00000043170  
Rat predicted target: ENSRNOG00000021056  
Hs Gene description: POTASSIUM INWARDLY-RECTIFYING CHANNEL J14; INWARDLY  
RECTIFYING POTASSIUM CHANNEL KIR2.4. [Source:RefSeq;Acc:NM\_013348]

NM\_013348

mir-216 ENSG00000182324 2000 nt UTR 2 hits 588 946

-----1-----1-----

>ENSG00000182324 hs-mir-216 588 595  
UAAUCUCAGCUGGCAACUGUG&AAAAAAGACCUGUGGUUCCAGAAAGCUCAUUAGUUGAGAUUC  
.((((((((((((.....&.....)))))))))))). -17.80

>ENSG00000182324 hs-mir-216 946 953  
UAAUCUCAGCUGGCAACUGUG&ACAGAGUCAAGGAAGCAGUGGCAAUUCUAGAUUUCUGAGAUUU  
.((((((((.....(((((.&.....)))))).)).....)))))))). -19.76

mir-216 ENSMUSG00000043170 3148 nt UTR 2 hits 437 1376

-----1-----1-----

>ENSMUSG00000043170 hs-mir-216 437 444  
UAAUCUCAGCUGGCAACUGUG&AGAAAAGGCCAGUGGCUCAGAAAGCCAAGAGUUGAGAUUC  
.(((((((((((((((((.&.....)))))).)).....)))))))). -21.43

>ENSMUSG00000043170 hs-mir-216 1376 1383  
UAAUCUCAGCUGGCAACUGUG&UUCACCCUACAGAGGCUAAGAUACAGUGUAGGUCCUGAGAUUU  
.((((((((.....(((((.&.....)))))).)).....)))))))). -21.70

mir-216 ENSRNOG00000021056 2884 nt UTR 2 hits 468 2647

-----1-----

>ENSRNOG00000021056 hs-mir-216 468 475  
UAAUCUCAGCUGGCAACUGUG&AGAAAAGGCCCGUGGCUCCAAAGAGCCAAGAGUUGAGAUUC  
.(((((((((((((((((.&.....)))))).)).....)))))))). -20.73

>ENSRNOG00000021056 hs-mir-216 2647 2654  
UAAUCUCAGCUGGCAACUGUG&AAGACAGAAUGCUUUUUAUUUACCAUCCUUGAGUCUGAGAUUU  
.(((((((((((((((((.&...)))))).)).....)))))))). -19.46

miRNA: mir-218

Human predicted target: ENSG00000056661  
Mouse predicted target: ENSMUSG00000018537  
Rat predicted target: ENSRNOG00000012705  
Hs Gene description: DNA-BINDING PROTEIN MEL-18 (ZINC FINGER PROTEIN 144).  
[Source:SWISSPROT;Acc:P35227] NM\_007144

mir-218 ENSG00000056661 2000 nt UTR 2 hits 909 1013

-----1--1-----

>ENSG00000056661 hs-mir-218 909 916  
UUGUGCUUGAUCUAACCAUGU&CCUAGAGUGGAAGUGGGGUGGGUUAACCUCACACAAGCACAGA  
(((((((((((((((((((((.&.....)))))).)).....)))))))). -22.50

>ENSG00000056661 hs-mir-218 1013 1020

UUGUGCUUGAUCUAACCAUGU&CGGUCACCUUGGUCAGGACAGAGCAACUGCAUCUAAAAGCACAAAG  
((((((((((..(((.((((.((&.....)).))))).)).....)))))))). -17.80  
mir-218 ENSMUSG00000018537 2162 nt UTR 2 hits 793 890

-----1---1-----

>ENSMUSG00000018537 hs-mir-218 793 800  
UUGUGCUUGAUCUAACCAUGU&UCACUGGGGGCCUAGAGUAGAGGGUGGCCCCAGACAAGCACAGA  
((((((((((..(((.((((.((&.....)).))))).)).....)))))))). -22.00

>ENSMUSG00000018537 hs-mir-218 890 897  
UUGUGCUUGAUCUAACCAUGU&CUGAGGCCAGGCAGGGAUAGGACAGAGGCAUCUAGAAGCACAAAG  
((((((((((..(((.((((.((&.....)).))))).)).....)))))))). -17.80

mir-218 ENSRNOG00000012705 2200 nt UTR 2 hits 835 931

-----1---1-----

>ENSRNOG00000012705 hs-mir-218 835 842  
UUGUGCUUGAUCUAACCAUGU&CCCAGAGCCGAGGGUUGGGGUGGGUAACCCUGACAAGCACAGA  
((((((((((..(((.((((.((&.....)).))))).)).....)))))))). -21.59

>ENSRNOG00000012705 hs-mir-218 931 938  
UUGUGCUUGAUCUAACCAUGU&CGGAGGCCAGGCAGGGAUAGGACAGAGGCAUCUAGAAGCACAAAG  
((((((((((..(((.((((.((&.....)).))))).)).....)))))))). -17.80

miRNA: mir-218

Human predicted target: ENSG00000075240  
Mouse predicted target: ENSMUSG00000035900  
Rat predicted target: ENSRNOG00000016951  
Rat predicted target: ENSRNOG00000016968

mir-218 ENSG00000075240 4536 nt UTR 2 hits 807 1609  
-----1-----1-----

>ENSG00000075240 hs-mir-218 807 814  
UUGUGCUUGAUCUAACCAUGU&UGGGGACCAGUAAGGGCACAGGAUGGUGCAGGUAAAAGCACAU  
((((((((((..(((.((((.((&.....)).))))).)).....)))))))). -21.70

>ENSG00000075240 hs-mir-218 1609 1616  
UUGUGCUUGAUCUAACCAUGU&GGUGCUUUGGGGGGAGCUGCGCCGAUCACCAGAUUAAGCACAU  
((((((((((..(((.((((.((&.....)).))))).)).....)))))))). -21.50

mir-218 ENSMUSG00000035900 4090 nt UTR 3 hits 278 711 1359  
-----1-----1-----1-----

>ENSMUSG00000035900 hs-mir-218 278 285  
UUGUGCUUGAUCUAACCAUGU&GAUGGCACACAAGACACUGGUCCUCAGGCCUCGUAAGCACAGC  
((((((((((..(((.((((.((&.....)).))))).)).....)))))))). -16.30

>ENSMUSG00000035900 hs-mir-218 711 718  
UUGUGCUUGAUCUAACCAUGU&UCCUGUGAGGGCCAGACUGGCGUAGUGUCGGCAAAGCACAC  
((((((((((..(((.((((.((&.....)).))))).)).....)))))))). -17.70

>ENSMUSG00000035900 hs-mir-218 1359 1366

UUGUGCUUGAUCUAACCAUGU&CUGGGGGUGGGAAGGGCUUGCCAGGCAACCAGAUCAAGCACAC  
.((((((((((((((..((((&....).))))).))))).))))). -24.25  
mir-218 ENSRNOG00000016951 2000 nt UTR 1 hits 441

-----1-----  
-----

>ENSRNOG00000016951 hs-mir-218 441 448  
UUGUGCUUGAUCUAACCAUGU&CUAUUCUGUAAAAGAUUGGGAAGACAGUCAUGAGUCAAGCACAGU  
((((((((((((((..((((&....).))))).))))).))))). -21.70  
mir-218 ENSRNOG00000016968 2000 nt UTR 3 hits 271 678 1361

-----1-----1-----1-----  
-----

>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

miRNA: mir-218

Human predicted target: ENSG00000119547  
Mouse predicted target: ENSMUSG00000045991  
Rat predicted target: ENSRNOG00000018299  
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  
-----1-----1-----1-----  
-----

>ENSG00000119547 hs-mir-218 116 123  
UUGUGCUUGAUCUAACCAUGU&GGAUUCUAGCUGGGGCCUUCACUGGUGAUUUGAAAGCACAAU  
((((((((((((((..((((&....).))))).))))).))))). -19.22

>ENSG00000119547 hs-mir-218 768 775  
UUGUGCUUGAUCUAACCAUGU&AAAAACCAGUCAGUUCACUUGCGCUCAAAGUAUCAAGCACAAAC  
((((((((((((((..((((&....).))))).))))).))))). -20.50

>ENSG00000119547 hs-mir-218 876 883  
UUGUGCUUGAUCUAACCAUGU&UGAAGUCAUUGAGGAAUUGAUGAGAAUUAUGGCUUCAAGCACAU  
.((((((((((((((..((((&....).))))).))))).))))). -22.60

mir-218 ENSMUSG00000045991 2000 nt UTR 3 hits 175 824 948  
-----1-----1-----1-----  
-----

>ENSMUSG00000045991 hs-mir-218 175 182  
UUGUGCUUGAUCUAACCAUGU&AGAUUCUAGCUGGGGCCUUCACUGGUGACUUGAAAGCACAAU  
((((((((((((((..((((&....).))))).))))).))))). -19.22

>ENSMUSG00000045991 hs-mir-218 824 831  
UUGUGCUUGAUCUAACCAUGU&CAAAAAAAGUCAAUUCACUUGAGCUCAAAGUAUCAAGCACAAAC



((((((((((((((((.....&.....))))))))))))). -20.50  
>ENSMUSG00000045991 hs-mir-218 948 955  
UUGUGCUUGAUCUAACCAUGU&UGAAGUCAUUAGGGAAUUAUUGGGAAUAUGGCUUCAAGCACAU  
((((((((((((.....(((((&.....)))))))).)))))))). -22.60  
mir-218 ENSRNOG00000018299 2000 nt UTR 3 hits 157 806 930  
-----1-----1-----1-----  
-----  
>ENSRNOG00000018299 hs-mir-218 157 164  
UUGUGCUUGAUCUAACCAUGU&AGAUUCUUAACUGGGCCCUUCACUGGUGACUUGAAAGCACAAU  
((((((((((((.....(((((&.....)))))))).)))))))). -19.22  
>ENSRNOG00000018299 hs-mir-218 806 813  
UUGUGCUUGAUCUAACCAUGU&AAAAAAAAAGUCAAUUCACUUGAGCUCAAAGUAUCAAGCACAAAC  
((((((((((((.....&.....)))))))))))). -20.50  
>ENSRNOG00000018299 hs-mir-218 930 937  
UUGUGCUUGAUCUAACCAUGU&UGAAGUCAUUAGGGAAUUAUUGGGAAUAUGGCUUCAAGCACAC  
((((((((((((.....(((((&.....)))))))).)))))))). -22.50

miRNA: mir-218  
Human predicted target: ENSG00000133318  
Mouse predicted target: ENSMUSG00000024758  
Rat predicted target: ENSRNOG00000021202  
Hs Gene description: RETICULON PROTEIN 3 (NEUROENDOCRINE-SPECIFIC PROTEIN-  
LIKE 2) (NSP-LIKE PROTEIN II) (NSPLII). [Source:SWISSPROT;Acc:O95197]

NM\_006054  
mir-218 ENSG00000133318 3683 nt UTR 2 hits 168 3087  
-----1-----1-----  
-----1-----  
>ENSG00000133318 hs-mir-218 168 175  
UUGUGCUUGAUCUAACCAUGU&UUUUCUCCCAUCCUUCUCCUUAACCCUCAGUAUCAAGCACAAA  
((((((((((((.....&.....)))))))))))). -20.80  
>ENSG00000133318 hs-mir-218 3087 3094  
UUGUGCUUGAUCUAACCAUGU&GAUCUUCUGAAUCCUGGUGGCCUCCACAACAAAAGCACAAA  
((((((((((((.....(((((&.....)))))))).)))))))). -16.30  
mir-218 ENSMUSG00000024758 3929 nt UTR 2 hits 170 2955  
-----1-----1-----  
-----1-----

-----  
>ENSMUSG00000024758 hs-mir-218 170 177  
UUGUGCUUGAUCUAACCAUGU&GUUCUCUCCUCCUCCUCCUUAACCCUCAGUACCAAGCACAAAG  
((((((((((((.....&.....)))))))))))). -17.50  
>ENSMUSG00000024758 hs-mir-218 2955 2962  
UUGUGCUUGAUCUAACCAUGU&AGCAGCUGUCCAGAAUACCUGAUGGCCUCAAAACAAGCACAGA  
((((((((((((.....(((((&.....)))))))).)))))))). -19.04  
mir-218 ENSRNOG00000021202 3858 nt UTR 2 hits 174 3615  
-----1-----1-----  
-----1-----  
-----

>ENSRNOG00000021202 hs-mir-218 174 181  
UUGUGCUUGAUCUAACCAUGU&GUUCUCUCCCAUCCUCUCCCUUUACCCUCAGUACCAAGCACAAAG  
((((((((.....&.....)))))))). -17.50  
>ENSRNOG00000021202 hs-mir-218 3615 3622  
UUGUGCUUGAUCUAACCAUGU&GUUCCAGAAUACCUGAUGGUCGAUGGCCUCAAAACAAGCACAGA  
(((((((((((((..(((..&.....))))))..))).....)))))))). -19.90

miRNA: mir-218  
Human predicted target: ENSG00000149582  
Mouse predicted target: ENSMUSG00000002032  
Rat predicted target: ENSRNOG00000014218  
Hs Gene description: NM\_032780

mir-218 ENSG00000149582 3254 nt UTR 2 hits 550 801  
-----1-----1-----

>ENSG00000149582 hs-mir-218 550 557  
UUGUGCUUGAUCUAACCAUGU&CACAGAAACCAACCCUGACCCAGCGGUACCGGCCAAGCACAAA  
(((((((((((((..((..(((..&.....))))..))).....)))))))). -21.80  
>ENSG00000149582 hs-mir-218 801 808  
UUGUGCUUGAUCUAACCAUGU&AGCUAUGCAUCAUUUUCUACGGCGUUAGCACUUUAAGCACAU  
..(((((((((((((..(((..&.....))))..))).....)))))))). -19.90

mir-218 ENSMUSG00000002032 3196 nt UTR 2 hits 547 784  
-----1-----1-----

>ENSMUSG00000002032 hs-mir-218 547 554  
UUGUGCUUGAUCUAACCAUGU&GCUCAGGAACCAGCCCUUGCCCAGGGACCUGGCCAAGCACAAA  
(((((((((((((..((..(((..&.....))))..))).....)))))))). -20.90  
>ENSMUSG00000002032 hs-mir-218 784 791  
UUGUGCUUGAUCUAACCAUGU&AGCUCUGCAUCGUUUUGUACAAGUGUCUGCAUUUAAGCACAU  
..(((((((((((((..(((..&.....))))..))).....)))))))). -16.45

mir-218 ENSRNOG00000014218 3122 nt UTR 4 hits 494 731 1611 1848  
-----1-----1-----1-----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

miRNA: mir-218

Human predicted target: ENSG00000162105

Mouse predicted target: ENSMUSG00000037541

Rat predicted target: ENSRNOG00000020806

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

-----1-----1-----  
-----  
-----

-----1-----  
>ENSG00000162105 hs-mir-218 764 771  
UUGUGCUUGAUCUAACCAUGU&AAGGUGGCCAAGCAGAUGUCACAUGGAGUUAGUCAAAAGCACAAA  
((((((((((.((((((((((&.....)))))))).)))))))). -24.70  
>ENSG00000162105 hs-mir-218 1713 1720  
UUGUGCUUGAUCUAACCAUGU&UACUGCAAGUUUAAAUAGUUGUACAGAUAGUUUUAAGCACAAU  
((((((((((.((((((((((&.....)))))))).)))))))). -15.90  
>ENSG00000162105 hs-mir-218 6238 6245  
UUGUGCUUGAUCUAACCAUGU&ACACAUAGCCCUGCAGCCCUGCAGAGGUGGCCACAAGCACAAAG  
((((((((((.((((((((((&.....)))))))).)))))))). -22.00  
mir-218 ENSMUSG00000037541 2000 nt UTR 2 hits 675 1395

-----1-----1-----  
-----

>ENSMUSG00000037541 hs-mir-218 675 682  
UUGUGCUUGAUCUAACCAUGU&AGGGUGGCCAAAUGAAGUCACACGGAGUUAGUCAAAAGCACAAA  
((((((((((.((((((((((&.....)))))))).)))))))). -22.30  
>ENSMUSG00000037541 hs-mir-218 1395 1402  
UUGUGCUUGAUCUAACCAUGU&UACUGCAAGUUUAAAUAGUGUACAGAUAGUUCAUAAGCACAAU  
((((((((((.((((((((((&.....)))))))).)))))))). -18.40  
mir-218 ENSRNOG00000020806 2000 nt UTR 3 hits 687 755 1603

-----1--1-----1-----  
-----

>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&UACUGCAAGUUUAAAUACGUGUACAGAUAGUUCAUAAGCACAAU  
((((((((((.((((((((((&.....)))))))).)))))))). -19.10

miRNA: mir-218

Human predicted target: ENSG00000163936

Mouse predicted target: ENSMUSG00000006526

Rat predicted target: ENSRNOG00000017051

mir-218 ENSG00000163936 2257 nt UTR 2 hits 350 1666

-----1-----1-----  
-----

>ENSG00000163936 hs-mir-218 350 357  
UUGUGCUUGAUCUAACCAUGU&CCCCGUGUCCGACCACCGAGUGGCAAGGUGGAAGGAAGCACAGG  
(((((((((.(((.((((&.....)))))))))....)))))) -20.60  
>ENSG00000163936 hs-mir-218 1666 1673  
UUGUGCUUGAUCUAACCAUGU&UCCUUUUAGACCUGCAUGAGCACGUGUUUCACUUAAGCACAU  
(((((((((.(((.((((&.....)))))))))....)))))) -18.90  
mir-218 ENSMUSG00000006526 2645 nt UTR 2 hits 1430 2287

-----1-----1-----  
-----

>ENSMUSG00000006526 hs-mir-218 1430 1437  
UUGUGCUUGAUCUAACCAUGU&CCCACCGCCUCACGGGCUGAGGCCUUAGGUGAGACAAGCACAGA  
(((((((((.(((.((((....&.....)))))))))....)))))) -24.40  
>ENSMUSG00000006526 hs-mir-218 2287 2294  
UUGUGCUUGAUCUAACCAUGU&CUCCCUGUGGAUGUGCGCAUGCAACCAUACAGCAAAAAGCACAU  
(((((((((.(((.((((&.....)))))))))....)))))) -14.80  
mir-218 ENSRNOG00000017051 2000 nt UTR 2 hits 1479 1922

-----1-----1-----  
--1--

>ENSRNOG00000017051 hs-mir-218 1479 1486  
UUGUGCUUGAUCUAACCAUGU&ACUGGCAGUGAUAUGGCUGAAGCCUUCGGUGAGACAAGCACAAA  
(((((((((.(((.((((....&.....)))))))))....)))))) -24.80  
>ENSRNOG00000017051 hs-mir-218 1922 1929  
UUGUGCUUGAUCUAACCAUGU&UCACAGAGGUGAUCCGUAAGGUCCUCCCAGCUCCCAAGCACAGC  
(((((((((.(((.((((&..)))))))))....)))))) -17.29

miRNA: mir-221  
Human predicted target: ENSG00000112183  
Mouse predicted target: ENSMUSG00000038132  
Rat predicted target: ENSRNOG00000016925  
Hs Gene description: NM\_153020

mir-221 ENSG00000112183 3747 nt UTR 2 hits 403 1214  
-----1-----1-----  
-----

>ENSG00000112183 hs-mir-221 403 410  
AGCUACAUUGUCUGCUGGGUUUC&AAUCUAGUUGAACCAGGGAAUACAGAGCGAGCAAUAUGUAGCUU  
(((((((((.(((.((((&.....)))))))))....)))))) -  
22.50  
>ENSG00000112183 hs-mir-221 1214 1221  
AGCUACAUUGUCUGCUGGGUUUC&UUCAUCUCAUGGCAUAAAUAUUUAGUAAGUCUAGAUGUAGCG  
(((((((((.(((.((((&.....)))))))))....)))))) -20.60  
mir-221 ENSMUSG00000038132 2000 nt UTR 2 hits 493 1307

-----1-----1-----  
-----

>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  
-----1-----1-----1-----1-----1-----  
>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

miRNA: mir-221

Human predicted target: ENSG00000117016  
Mouse predicted target: ENSMUSG00000032890  
Rat predicted target: ENSRNOG00000011171  
Rat predicted target: ENSRNOG00000011337  
Hs Gene description: NM\_014747

mir-221 ENSG00000117016 7837 nt UTR 5 hits 510 613 2278 3590 4418  
-----1--1-----1-----1-----1-----  
-----1-----1-----1-----1-----1-----  
-----1-----1-----1-----1-----1-----  
>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&GUUAGUGACCCACAGGACAGUAUAGAUGUUUGGAUGUAGCA  
((((((((((..(((.((((.&.....)))))).....))))))..)))))))). -25.79  
>ENSG00000117016 hs-mir-221 3590 3597  
AGCUACAUGUCUGCUGGGUUUC&AUAAAAGACCUCCAAGGGUACUUCUUUGGAAAUGAAAUGUAGCA  
((((((((((..(((.((((.&.....)))))).....))))))..)))))))). -19.60  
>ENSG00000117016 hs-mir-221 4418 4425  
AGCUACAUGUCUGCUGGGUUUC&GGACCUUGUUCUCUGAUAAAGGGCUUAAUCUUCCAUGUAGCA

.(((((((((((((((((.(.(((((((.&)))))))).)).....))))). -19.52  
mir-221 ENSMUSG00000032890 2000 nt UTR 2 hits 456 564

-----1-----1-----  
-----

>ENSMUSG00000032890 hs-mir-221 456 463  
AGCUACAUGUCUGCUGGGUUUC&CUUUGCCUCUCCCAGCAUUGCUGCUUUUUUGAGGAAUGUAGCA  
.(((((((((((.(.(((((((.&.....)))))))).)).....))))). -25.16

>ENSMUSG00000032890 hs-mir-221 564 571  
AGCUACAUGUCUGCUGGGUUUC&CACUGGUGGUCAUCCCAUUGAAUGCACUCCACAGCAUGUAGCA  
.(((((((((((.(.(((((((.&.....)))))))).)).....))))). -21.60

mir-221 ENSRNOG00000011171 2199 nt UTR 2 hits 468 576  
-----1-----1-----  
-----

>ENSRNOG00000011171 hs-mir-221 468 475  
AGCUACAUGUCUGCUGGGUUUC&UUGCCUCUCCCAGCAUUGCUGCUCUUUUUGAGGAAUGUAGCA  
.(((((((((((.(.(((((((.&.....)))))))).)).....))))). -25.02

>ENSRNOG00000011171 hs-mir-221 576 583  
AGCUACAUGUCUGCUGGGUUUC&CGAUGGUGGUCAACCAUUGAACGCACUCCACAGCAUGUAGCA  
.(((((((((((.(.(((((((.&.....)))))))).)).....))))). -22.20

mir-221 ENSRNOG00000011337 2000 nt UTR 2 hits 468 576  
-----1-----1-----  
-----

>ENSRNOG00000011337 hs-mir-221 468 475  
AGCUACAUGUCUGCUGGGUUUC&UUGCCUCUCCCAGCAUUGCUGCUCUUUUUGAGGAAUGUAGCA  
.(((((((((((.(.(((((((.&.....)))))))).)).....))))). -25.02

>ENSRNOG00000011337 hs-mir-221 576 583  
AGCUACAUGUCUGCUGGGUUUC&CGAUGGUGGUCAACCAUUGAACGCACUCCACAGCAUGUAGCA  
.(((((((((((.(.(((((((.&.....)))))))).)).....))))). -22.20

miRNA: mir-221  
Human predicted target: ENSG00000119414  
Mouse predicted target: ENSMUSG00000026753  
Rat predicted target: ENSRNOG00000015145  
Hs Gene description: SERINE/THREONINE PROTEIN PHOSPHATASE 6 (EC 3.1.3.16)  
(PP6). [Source:SWISSPROT;Acc:O00743] NM\_002721  
mir-221 ENSG00000119414 2545 nt UTR 2 hits 267 1767

-----1-----1-----  
-----

>ENSG00000119414 hs-mir-221 267 274  
AGCUACAUGUCUGCUGGGUUUC&AGACUUGAGAAAUGUCUUAUACUCACACUGCUGCAUGUAGCUC  
(((((((((((.(.(((((((.&.....)))))))).)).....))))). -19.60

>ENSG00000119414 hs-mir-221 1767 1774  
AGCUACAUGUCUGCUGGGUUUC&AUUCAGGUGGAAAGGUAUUUUUAUCUCACAGGGAUUAUGUAGCUA  
(((((((((((.(.(((((((.&.....)))))))).)).....))))). -22.50

mir-221 ENSMUSG00000026753 2670 nt UTR 2 hits 259 1759

-----1-----1-----

>ENSMUSG00000026753 hs-mir-221 259 266  
AGCUACAUGUCUGCUGGGUUUC&AGACUUGAGAAAUGUCUAAUACUCACAUGCUGCAUGUAGCUC  
((((((((((..((((((((.....&.....)))))).....)))))))). -  
19.60

>ENSMUSG00000026753 hs-mir-221 1759 1766  
AGCUACAUGUCUGCUGGGUUUC&AUUCAGGUGGAAAGGUUUUUUAUCUCACAGGAAUAUGUAGCUA  
((((((((((..((((((((.....&.....)))))).....)))))))). -  
23.10

mir-221 ENSRNOG00000015145 4943 nt UTR 3 hits 261 1735 3951

-----1-----1-----

>ENSRNOG00000015145 hs-mir-221 261 268  
AGCUACAUGUCUGCUGGGUUUC&AGACUUGAGAAAUGUCUAAUACUCACAUGCUGCAUGUAGCUC  
((((((((((..((((((((.....&.....)))))).....)))))))). -  
19.60

>ENSRNOG00000015145 hs-mir-221 1735 1742  
AGCUACAUGUCUGCUGGGUUUC&AAUUCGGGUGGAAAGGUUUUUUAUCUCACAGGAAUAUGUAGCUA  
((((((((((..((((((((.....&.....)))))).....)))))))). -  
23.10

>ENSRNOG00000015145 hs-mir-221 3951 3958  
AGCUACAUGUCUGCUGGGUUUC&AAUUCGGGUGGAAAGGUUUUUUAUCUCACAGGAAUAUGUAGCUA  
((((((((((..((((((((.....&.....)))))).....)))))))). -  
23.10

miRNA: mir-221

Human predicted target: ENSG00000155111

Mouse predicted target: ENSMUSG00000038481

Rat predicted target: ENSRNOG00000000583

mir-221 ENSG00000155111 6557 nt UTR 2 hits 771 1852

-----1-----1-----

>ENSG00000155111 hs-mir-221 771 778  
AGCUACAUGUCUGCUGGGUUUC&GCAUUCAGUAAUUAAGAAUUACA AUUUUAACCUUCAUGUAGCUA  
((((((((((..((((((((.....&..)))))).....)))))))). -  
18.29

>ENSG00000155111 hs-mir-221 1852 1859  
AGCUACAUGUCUGCUGGGUUUC&UUUUUUAAAUAAGAAAUUAGCAGCCCUCUGCAUAAUGUAGCUG  
((((((((((..((((((((.....&.....)))))).....)))))))). -  
26.20

mir-221 ENSMUSG00000038481 4297 nt UTR 2 hits 2869 3267

-----1-----1-----  
-----1-----1-----

>ENSMUSG00000038481 hs-mir-221 2869 2876  
AGCUACAUGUCUGCUGGGUUUC&AAAGGUUUCUGGUCUUUGUAUUAAGUCACUUUUAGAUGUAGCUU  
((((((((((.....((..((..((&...))..))..)).....)))))))). -  
17.71

>ENSMUSG00000038481 hs-mir-221 3267 3274  
AGCUACAUGUCUGCUGGGUUUC&GUAGGGCUUGAAGCUUGCUCUUCUGAGUUAAGAUGUAGCA  
((((((((((.....((((((((((&.....))))))..)).....))))..))..)))). -20.60  
mir-221 ENSRNOG0000000583 4096 nt UTR 3 hits 724 887 2817

-----1-----1-----  
-----1-----1-----

>ENSRNOG0000000583 hs-mir-221 724 731  
AGCUACAUGUCUGCUGGGUUUC&UAAUAUUCAGUGAUUAAAAUUAUAAUUUUAACUUCAUGUAGCUA  
((((((((((.....((((((((((&.....))))))..)).....))))..))..)))). -  
18.75

>ENSRNOG0000000583 hs-mir-221 887 894  
AGCUACAUGUCUGCUGGGUUUC&GCGCGCUUCGUCCACUUGAGGGAAAAGCUUUUCCAUGUAGCUU  
((((((((((.....((.....((.....((&.....))..))..))..))..))..))..)))). -  
18.60

>ENSRNOG0000000583 hs-mir-221 2817 2824  
AGCUACAUGUCUGCUGGGUUUC&UAAUAUUCAGUGAUUAAAAUUAUAAUUUUAACUUCAUGUAGCUA  
((((((((((.....((((((((((&.....))))))..)).....))))..))..)))). -  
18.75

miRNA: mir-221  
Human predicted target: ENSG00000157404  
Mouse predicted target: ENSMUSG00000005672  
Rat predicted target: ENSRNOG00000002227  
Hs Gene description: MAST/STEM CELL GROWTH FACTOR RECEPTOR PRECURSOR (EC  
2.7.1.112) (SCFR) (PROTO-ONCOGENE TYROSINE-PROTEIN KINASE KIT) (C-KIT)  
(CD117 ANTIGEN). [Source:SWISSPROT;Acc:P10721] NM\_000222  
mir-221 ENSG00000157404 2000 nt UTR 2 hits 1030 1959

-----1-----  
----1-

>ENSG00000157404 hs-mir-221 1030 1037  
AGCUACAUGUCUGCUGGGUUUC&AGUGGGAAAACACUGCCAUCUUGAUUUUGGAUUCUUAUGUAGCA  
((((((((((.....((((((((((&.....))))))..)).....))))..))..)))). -21.80

>ENSG00000157404 hs-mir-221 1959 1966  
AGCUACAUGUCUGCUGGGUUUC&GAAAUUAUUUUGUGGCUUUUUUUGUAAAUAUUGAAAUGUAGCA  
((((((((((.....((.....((.....((&))))..)).....))))..))..)))). -17.00  
mir-221 ENSMUSG00000005672 4174 nt UTR 3 hits 447 1978 2854

-----1-----1-----  
-----1-----1-----



>ENSMUSG00000005672 hs-mir-221 447 454  
AGCUACAUGUCUGCUGGGUUUC&UGGCCUGAGAGCCAUCCUAAUGAUGGGAGAUUAUGUAGCA  
.(((((((((((((((((.&.....)))))).)).....))))).)))). -24.20  
>ENSMUSG00000005672 hs-mir-221 1978 1985  
AGCUACAUGUCUGCUGGGUUUC&GGAAUUAUUAUGUGGCUUUUUUGUAAAUAUUGAAAUGUAGCA  
.(((((((((((((.&.....)))))).)).....))))).)))). -16.50  
>ENSMUSG00000005672 hs-mir-221 2854 2861  
AGCUACAUGUCUGCUGGGUUUC&ACCAUUGGAACUGUCUGAGAAAGCCUCCUAUACCAUGUAGCC  
.(((((((((((((.&.....)))))).)).....))))).)))). -19.70  
mir-221 ENSRNOG00000002227 2843 nt UTR 2 hits 445 2061

-----1-----  
-----1-----  
>ENSRNOG00000002227 hs-mir-221 445 452  
AGCUACAUGUCUGCUGGGUUUC&GGCCCAGAGAGCCUCCAUAUGACGGGCAGAUGUAUGUAGCA  
.(((((((((((((((((((((.&.....)))))).)).....))))).)))). -28.40  
>ENSRNOG00000002227 hs-mir-221 2061 2068  
AGCUACAUGUCUGCUGGGUUUC&GGAAUUAUUAUGUGGCUUUUUUGUAAAUAUUGAAAUGUAGCA  
.(((((((((((((.&.....)))))).)).....))))).)))). -18.03

miRNA: mir-222  
Human predicted target: ENSG00000074317  
Mouse predicted target: ENSMUSG00000034891  
Rat predicted target: ENSRNOG00000018039  
Hs Gene description: BETA-SYNUCLEIN. [Source:SWISSPROT;Acc:Q16143]  
NM\_003085

mir-222 ENSG00000074317 2602 nt UTR 1 hits 273  
-----1-----  
-----  
>ENSG00000074317 hs-mir-222 273 280  
AGCUACAUCUGGCUACUGGGUCUC&CCAGUGUUGCCUCCUCCAUCCAGCGUCUGCGCGGAUGUAGCA  
.(((((((((((((((((((((.&.....)))))).)).....))))).)))). -  
30.20  
mir-222 ENSMUSG00000034891 2651 nt UTR 1 hits 327

-----1-----  
-----  
>ENSMUSG00000034891 hs-mir-222 327 334  
AGCUACAUCUGGCUACUGGGUCUC&CCCCUCACCCUCCAUAUUGGUCCAGUGUCUGCUCGGAUGUAGCA  
.(((((((((((((((((((((.&.....)))))).)).....))))).)))). -  
32.50  
mir-222 ENSRNOG00000018039 2000 nt UTR 1 hits 707

-----1-----  
-----  
>ENSRNOG00000018039 hs-mir-222 707 714  
AGCUACAUCUGGCUACUGGGUCUC&CCCCUCACCCUCCAUCUGGUCCAGUGUCUGCUCGGAUGUAGCA  
.(((((((((((((((((((((.&.....)))))).)).....))))).)))). -  
32.50

miRNA: mir-222

Human predicted target: ENSG00000112183

Mouse predicted target: ENSMUSG00000038132

Rat predicted target: ENSRNOG00000016925

Hs Gene description: NM\_153020

mir-222 ENSG00000112183 3747 nt UTR 2 hits 403 1214

-----1-----1-----

--

>ENSG00000112183 hs-mir-222 403 410  
AGCUACAUCUGGCUACUGGGUCUC&AAUCUAGUUGAACCAGGGAAUACAGAGCGAGCAAUAUGUAGCUU  
(((((((((((((.((((.((((.(((((&.....))))))..))))))..))))))..)))))).. -  
26.60

>ENSG00000112183 hs-mir-222 1214 1221  
AGCUACAUCUGGCUACUGGGUCUC&UUCAUCUCAUGGCAUAAAUUUAUUUAGUAAGUCUAGAUGUAGCG  
(((((((((((((((.((((.((((.(((((&.....))))))..))))))..))))))..)))))).. -  
28.40

mir-222 ENSMUSG00000038132 2000 nt UTR 2 hits 493 1307

-----1-----1-----

>ENSMUSG00000038132 hs-mir-222 493 500  
AGCUACAUCUGGCUACUGGGUCUC&AAUCUAGUUGAACCAGGGAAUACGGAGUGAGCAAUAUGUAGCUU  
(((((((((((((((.((((.((((.(((((&.....))))))..))))))..))))))..)))))).. -  
24.40

>ENSMUSG00000038132 hs-mir-222 1307 1314  
AGCUACAUCUGGCUACUGGGUCUC&UUCAUCUCAUGGCAUAAGUUAUUCAGUAGGUCUAGAUGUAGCA  
(((((((((((((((((((.((((.((((.(((((&.....))))))..))))))..))))))..)))))).. -  
31.90

mir-222 ENSRNOG00000016925 2400 nt UTR 3 hits 370 716 1532

-----1-----1-----1-----

>ENSRNOG00000016925 hs-mir-222 370 377  
AGCUACAUCUGGCUACUGGGUCUC&AAUCUAGCUGAACCAGGGAAUACGGAGUGCACAAUAUGUAGCUU  
(((((((((((((((.((((.((((.(((((&.....))))))..))))))..))))))..)))))).. -  
22.50

>ENSRNOG00000016925 hs-mir-222 716 723  
AGCUACAUCUGGCUACUGGGUCUC&AAUCUAGCUGAACCAGGGAAUACGGAGUGCACAAUAUGUAGCUU  
(((((((((((((((.((((.((((.(((((&.....))))))..))))))..))))))..)))))).. -  
22.50

>ENSRNOG00000016925 hs-mir-222 1532 1539  
AGCUACAUCUGGCUACUGGGUCUC&UUCAUCUCAUGGCAUAAGUUAUUCAGUAGGUCUAGAUGUAGCA  
(((((((((((((((((((((((.((((.((((.(((((&.....))))))..))))))..))))))..)))))).. -  
31.90

miRNA: mir-222

Human predicted target: ENSG00000117016

Mouse predicted target: ENSMUSG00000032890

Rat predicted target: ENSRNOG00000011171

Rat predicted target: ENSRNOG00000011337

Hs Gene description: NM\_014747

mir-222 ENSG00000117016 7837 nt UTR 5 hits 510 613 2278 3590 4418

-----1--1-----  
-----1-----1-----  
-----1-----  
-----

>ENSG00000117016 hs-mir-222 510 517  
AGCUACAUCUGGCUACUGGGUCUC&UUGACUCUCCCGGCUCUGCCACUGUUUUCUGAGAAAUGUAGCA  
.(((((((((((((.....&.....)))))).....)))).....))))). -  
24.06

>ENSG00000117016 hs-mir-222 613 620  
AGCUACAUCUGGCUACUGGGUCUC&GGCAGCUCUCCUGCCACUGAAUGCGUUCUGCAGCAUGUAGCA  
.(((((((((((((.....(((((.....&.....)))))).....)))).....)))).....))))). -  
20.09

>ENSG00000117016 hs-mir-222 2278 2285  
AGCUACAUCUGGCUACUGGGUCUC&GUUAGUGACCCACAGGACAGUAUAGAUGUUUGUGGAUGUAGCA  
.(((((((((((((.....(((((.....&.....)))))).....)))).....)))).....))))). -  
25.76

>ENSG00000117016 hs-mir-222 3590 3597  
AGCUACAUCUGGCUACUGGGUCUC&AUAAAGACCUCCAAGGGUACUUCUUGGAAAUGAAAUGUAGCA  
.(((((((((((((.....(((((.....&.....)))))).....)))).....)))).....))))). -  
20.55

>ENSG00000117016 hs-mir-222 4418 4425  
AGCUACAUCUGGCUACUGGGUCUC&GGACCUUGUUCUCUGAUAAAGGGCUUAAUCUUCUCCAUGUAGCA  
.(((((((((((((.....(((((.....&.....)))))).....)))).....)))).....))))). -  
22.00

mir-222 ENSMUSG00000032890 2000 nt UTR 2 hits 456 564

-----1--1-----  
-----

>ENSMUSG00000032890 hs-mir-222 456 463  
AGCUACAUCUGGCUACUGGGUCUC&CUUUGCCUCUCCAGCAUUGCUGCUUUUUUGAGGAAUGUAGCA  
.(((((((((((((.....&.....)))))).....)))).....)))).....))))). -  
23.60

>ENSMUSG00000032890 hs-mir-222 564 571  
AGCUACAUCUGGCUACUGGGUCUC&CACUGGUGGUCAUCCAUUGAAUGCACUCCACAGCAUGUAGCA  
.(((((((((((((.....&.....)))))).....)))).....)))).....))))). -  
24.49

mir-222 ENSRNOG00000011171 2199 nt UTR 2 hits 468 576

-----1--1-----  
-----

>ENSRNOG00000011171 hs-mir-222 468 475  
AGCUACAUCUGGCUACUGGGUCUC&UUGCCUCUCCAGCAUUGCUGCUCUUUUUUUGAGGAAUGUAGCA  
.(((((((((((((.....&.....)))))).....)))).....)))).....))))). -  
23.40

>ENSRNOG00000011171 hs-mir-222 576 583  
AGCUACAUCUGGCUACUGGGUCUC&CGAUGGUGGUCAACCCAUGAACGCACUCCACAGCAUGUAGCA  
.(((((((((((((((((((((...&.....)))))))).)))).)))). -  
22.30  
mir-222 ENSRNOG00000011337 2000 nt UTR 2 hits 468 576  
-----1-----1-----

>ENSRNOG00000011337 hs-mir-222 468 475  
AGCUACAUCUGGCUACUGGGUCUC&UUGCCUCUCCAGCAUUGCUGCUCUUUUUUGAGGAAUGUAGCA  
.(((((((((((((((((((((...&.....)))))))).)))).)))). -  
23.40  
>ENSRNOG00000011337 hs-mir-222 576 583  
AGCUACAUCUGGCUACUGGGUCUC&CGAUGGUGGUCAACCCAUGAACGCACUCCACAGCAUGUAGCA  
.(((((((((((((((((((((...&.....)))))))).)))).)))). -  
22.30

miRNA: mir-222  
Human predicted target: ENSG00000119414  
Mouse predicted target: ENSMUSG00000026753  
Rat predicted target: ENSRNOG00000015145  
Hs Gene description: SERINE/THREONINE PROTEIN PHOSPHATASE 6 (EC 3.1.3.16)  
(PP6). [Source:SWISSPROT;Acc:O00743] NM\_002721  
mir-222 ENSG00000119414 2545 nt UTR 2 hits 267 1767  
-----1-----1-----

>ENSG00000119414 hs-mir-222 267 274  
AGCUACAUCUGGCUACUGGGUCUC&AGACUUGAGAAAUGUCUAAUACUCACACUGCUGCAUGUAGCUC  
(((((((((((((((((((((...&.....)))))))).)))).)))). -  
22.40  
>ENSG00000119414 hs-mir-222 1767 1774  
AGCUACAUCUGGCUACUGGGUCUC&AUUCAGGUGGAAAGGUUUUUUAUCUCACAGGGAUAUGUAGCUA  
(((((((((((((((((((((...&.....)))))))).)))).)))). -  
19.39  
mir-222 ENSMUSG00000026753 2670 nt UTR 2 hits 259 1759  
-----1-----1-----

>ENSMUSG00000026753 hs-mir-222 259 266  
AGCUACAUCUGGCUACUGGGUCUC&AGACUUGAGAAAUGUCUAAUACUCACAUUGCUGCAUGUAGCUC  
(((((((((((((((((((((...&.....)))))))).)))).)))). -  
22.40  
>ENSMUSG00000026753 hs-mir-222 1759 1766  
AGCUACAUCUGGCUACUGGGUCUC&AUUCAGGUGGAAAGGUUUUUUAUCUCACAGGAAUAUGUAGCUA  
(((((((((((((((((((((...&.....)))))))).)))).)))). -  
19.39  
mir-222 ENSRNOG00000015145 4943 nt UTR 3 hits 261 1735 3951

-----1-----1-----

-----1-----

>ENSRNOG00000015145 hs-mir-222 261 268  
AGCUACAUCUGGCUACUGGGUCUC&AGACUUGAGAAAUGUCUAAUACUCACAUUGCUGCAUGUAGCUC  
(((((((((((((...(((...&.....))))))...)))))). -  
22.40

>ENSRNOG00000015145 hs-mir-222 1735 1742  
AGCUACAUCUGGCUACUGGGUCUC&AAUUCGGGUGGAAAGGUUUUAUCUCACAGGAAUAUGUAGCUA  
(((((((((((((...(((...&...)))))...))...)))). -  
20.95

>ENSRNOG00000015145 hs-mir-222 3951 3958  
AGCUACAUCUGGCUACUGGGUCUC&AAUUCGGGUGGAAAGGUUUUAUCUCACAGGAAUAUGUAGCUA  
(((((((((((((...(((...&...)))))...))...)))). -  
20.95

miRNA: mir-222  
Human predicted target: ENSG00000143418  
Mouse predicted target: ENSMUSG00000015714  
Rat predicted target: ENSRNOG00000021138  
Hs Gene description: TUMOR METASTASIS-SUPPRESSOR; L3 PIGMENT.  
[Source:RefSeq;Acc:NM\_013384] NM\_013384  
mir-222 ENSG00000143418 2900 nt UTR 1 hits 2450

-----1-----

>ENSG00000143418 hs-mir-222 2450 2457  
AGCUACAUCUGGCUACUGGGUCUC&AGCGGCCAGGUUGCCUUC AAGCUUGGCAUCAUGAUGUAGCA  
(((((((((((((...(((...&...)))))...))...)))). -  
34.21

mir-222 ENSMUSG00000015714 2777 nt UTR 1 hits 1884

-----1-----

>ENSMUSG00000015714 hs-mir-222 1884 1891  
AGCUACAUCUGGCUACUGGGUCUC&AGCGGCCUAGGUUGCCUUC AAGUUUGGCAUCAUGAUGUAGCA  
(((((((((((((...(((...&...)))))...))...)))). -  
31.91

mir-222 ENSRNOG00000021138 2000 nt UTR 1 hits 1835

1-----

>ENSRNOG00000021138 hs-mir-222 1835 1842  
AGCUACAUCUGGCUACUGGGUCUC&AGCGGCCUAGGUUGCCUUC AAGUUUGGCAUCAUGAUGUAGCA  
(((((((((((((...(((...&...)))))...))...)))). -  
31.91

miRNA: mir-222  
Human predicted target: ENSG00000155111

Mouse predicted target: ENSMUSG00000038481

Rat predicted target: ENSRNOG00000000583

mir-222 ENSG00000155111 6557 nt UTR 2 hits 771 1852

-----1-----  
1-----  
-----

>ENSG00000155111 hs-mir-222 771 778  
AGCUACAUCUGGCUACUGGGUCUC&GCAUUCAGUAAUUAAGAAUUACAAUUUUAAACCUUCAUGUAGCUA  
((((((((((..(((((.....&..)))))))).))))). -  
19.50

>ENSG00000155111 hs-mir-222 1852 1859  
AGCUACAUCUGGCUACUGGGUCUC&UUUUUUAAAUAAGAAUUAGCAGCCCUCUGCAUAAUGUAGCUG  
((((((((((..(((((.....&.....)))))))).))))). -  
24.00

mir-222 ENSMUSG00000038481 4297 nt UTR 2 hits 2869 3267

-----1-----1-----  
-----

>ENSMUSG00000038481 hs-mir-222 2869 2876  
AGCUACAUCUGGCUACUGGGUCUC&AAAGGUUUCUGGUCUUUGUAUUUAAGUCACUUUUAGAUGUAGCUU  
((((((((((..(((((.....&.....)))))))).))))). -  
21.70

>ENSMUSG00000038481 hs-mir-222 3267 3274  
AGCUACAUCUGGCUACUGGGUCUC&GUAGGGCUUGAAGCUUGCUUCUGAGUUAAGAUGUAGCA  
((((((((((..(((((.....&.....)))))))).))))). -  
24.76

mir-222 ENSRNOG00000000583 4096 nt UTR 3 hits 724 887 2817

-----1-----1-----  
-----1-----  
-----

>ENSRNOG00000000583 hs-mir-222 724 731  
AGCUACAUCUGGCUACUGGGUCUC&UAAUUAUCAGUGAUUAAAUAUAAUUUUAAACUUCAUGUAGCUA  
((((((((((..(((((.....&.....)))))))).))))). -  
18.35

>ENSRNOG00000000583 hs-mir-222 887 894  
AGCUACAUCUGGCUACUGGGUCUC&GCGCGCUUCGUCCACUUGAGGGAAAAGCUUUUCCAUGUAGCUU  
((((((((((..(((((.....&.....)))))))).))))). -  
18.10

>ENSRNOG00000000583 hs-mir-222 2817 2824  
AGCUACAUCUGGCUACUGGGUCUC&UAAUUAUCAGUGAUUAAAUAUAAUUUUAAACUUCAUGUAGCUA  
((((((((((..(((((.....&.....)))))))).))))). -  
18.35

miRNA: mir-222

Human predicted target: ENSG00000157404

Mouse predicted target: ENSMUSG00000005672

Rat predicted target: ENSRNOG00000002227  
Hs Gene description: MAST/STEM CELL GROWTH FACTOR RECEPTOR PRECURSOR (EC 2.7.1.112) (SCFR) (PROTO-ONCOGENE TYROSINE-PROTEIN KINASE KIT) (C-KIT) (CD117 ANTIGEN). [Source:SWISSPROT;Acc:P10721] NM\_000222  
mir-222 ENSG00000157404 2000 nt UTR 2 hits 1030 1959

-----1-----

----1-

>ENSG00000157404 hs-mir-222 1030 1037  
AGCUACAUCUGGCUCACUGGGUCUC&AGUGGGAAAACACUGCCAUCUAGUUUGGAUUCUUAUGUAGCA  
.(((((((((((((...((((&...))))))...)))...))))). -  
20.37

>ENSG00000157404 hs-mir-222 1959 1966  
AGCUACAUCUGGCUCACUGGGUCUC&GAAAUUAUUUUGUGGCUUUUUUGUAAAUAUUGAAAUGUAGCA  
.(((((((((((((...((((&...))))))...)))...))))). -  
19.45

mir-222 ENSMUSG00000005672 4174 nt UTR 3 hits 447 1978 2854

-----1-----

-----1-----

>ENSMUSG00000005672 hs-mir-222 447 454  
AGCUACAUCUGGCUCACUGGGUCUC&UGGCCUGAGAGCCAUCUUAUGAUGGGAGAUUAUUGUAGCA  
.(((((((((((((...((((&...))))))...)))...))))). -  
27.50

>ENSMUSG00000005672 hs-mir-222 1978 1985  
AGCUACAUCUGGCUCACUGGGUCUC&GGAAUUAUUUUGUGGCUUUUUUGUAAAUAUUGAAAUGUAGCA  
.(((((((((((((...((((&...))))))...)))...))))). -  
19.35

>ENSMUSG00000005672 hs-mir-222 2854 2861  
AGCUACAUCUGGCUCACUGGGUCUC&ACCAUUGGAACUGUCUGAGAAAGCCUCCUAUACCAUGUAGCC  
.(((((((((((((...((((&...))))))...)))...))))). -  
20.60

mir-222 ENSRNOG00000002227 2843 nt UTR 2 hits 445 2061

-----1-----

-----1-----

>ENSRNOG00000002227 hs-mir-222 445 452  
AGCUACAUCUGGCUCACUGGGUCUC&GGCCCAGAGAGCCUCCAUAUGACGGGCAGAUGUAUGUAGCA  
.(((((((((((((...((((&...))))))...)))...))))). -  
30.20

>ENSRNOG00000002227 hs-mir-222 2061 2068  
AGCUACAUCUGGCUCACUGGGUCUC&GGAAUUAUUACGUGGCUUUUUUGUAAAUAUUGAAAUGUAGCA  
.(((((((((((((...((((&...))))))...)))...))))). -  
19.35

miRNA: mir-223

Human predicted target: ENSG00000109670  
Mouse predicted target: ENSMUSG00000028086  
Rat predicted target: ENSRNOG00000010889

Hs Gene description: F-BOX PROTEIN FBW7 ISOFORM 2; ARCHIPELAGO, DROSOPHILA, HOMOLOG OF; F-BOX PROTEIN FBW7; F-BOX PROTEIN SEL-10; HOMOLOG OF C ELEGANS SEL-10. [Source:RefSeq;Acc:NM\_018315] NM\_018315

mir-223 ENSG00000109670 3622 nt UTR 2 hits 190 1261

-----1-----1-----

>ENSG00000109670 hs-mir-223 190 197  
UGUCAGUUUGUCAAAUACCCCAA&ACUAAGAAGGAAAAGAAGAAGAGAUGACAAACCAUACUGACAA  
((((((((((((.....&.....)))))).....))))). -  
18.30

>ENSG00000109670 hs-mir-223 1261 1268  
UGUCAGUUUGUCAAAUACCCCAA&GGGAAAACAACUGUUACAGUUUUUUAUUGCUCUGAGUAAACUGACAA  
((((((((.....&.....)))))).....))))). -  
17.00

mir-223 ENSMUSG00000028086 2086 nt UTR 2 hits 235 1176

-----1-----1-----

>ENSMUSG00000028086 hs-mir-223 235 242  
UGUCAGUUUGUCAAAUACCCCAA&ACAGACUAAGAAGGCAAGAAGAGACAAGAGACCGUAAACUGACAG  
((((((((.....&.....)))))).....))))). -  
18.10

>ENSMUSG00000028086 hs-mir-223 1176 1183  
UGUCAGUUUGUCAAAUACCCCAA&GAGGGCUGUGGUGAAUGGAAGAACAUAUCAUAGCAAACUGACAA  
((((((((.....&.....)))))).....))))). -  
22.10

mir-223 ENSRNOG00000010889 3663 nt UTR 2 hits 289 1212

-----1-----1-----

>ENSRNOG00000010889 hs-mir-223 289 296  
UGUCAGUUUGUCAAAUACCCCAA&CAGACUAAGGAGGUAAGAAGAAGACAAGAGACCGUAAACUGACC  
((((((((.....&.....)))))).....))))). -19.90

>ENSRNOG00000010889 hs-mir-223 1212 1219  
UGUCAGUUUGUCAAAUACCCCAA&GAGGGCUGUGGUGAAUGGAUGAACAUAUCAUAGUAAAACUGACAA  
((((((((.....&.....)))))).....))))). -  
22.10

miRNA: mir-223

Human predicted target: ENSG00000144283

Mouse predicted target: ENSMUSG00000026991

Rat predicted target: ENSRNOG00000005504

Hs Gene description: PLAKOPHILIN 4 (P0071). [Source:SWISSPROT;Acc:Q99569]

mir-223 ENSG00000144283 2000 nt UTR 2 hits 529 1975

-----1-----1-----

>ENSG00000144283 hs-mir-223 529 536  
UGUCAGUUUGUCAAAUACCCCAA&UAAUGCAAUGUGUCACUUGAAAAGAGAUUUGAAGAAACUGACAA



(((((((((((((.....&.....)))))))).))))). -  
20.90  
>ENSG00000144283 hs-mir-223 1975 1982  
UGUCAGUUUGUCAAAUACCCCAA&UCAGGAAAACAAGGAAUCGGAGCCAGCCCAAGCCAACUGACAA  
(((((((((((((.....&.....)))))))).))))). -  
17.20  
mir-223 ENSMUSG00000026991 2000 nt UTR 2 hits 545 1410  
-----1-----1-----  
-----  
>ENSMUSG00000026991 hs-mir-223 545 552  
UGUCAGUUUGUCAAAUACCCCAA&GUAUUGCAGUGUGUCAUUUGAAAAGAGAUUUGAAGAACUGACAG  
(((((((((((((.....&.....)))))))).))))). -  
21.90  
>ENSMUSG00000026991 hs-mir-223 1410 1417  
UGUCAGUUUGUCAAAUACCCCAA&UACACAGCAGAGGCCACUGGGUGACAUUCCUAAGGAACUGACAC  
(((((((((((((.....(((((.&.....)))))))).))))). -  
21.30  
mir-223 ENSRNOG00000005504 2000 nt UTR 2 hits 544 1379  
-----1-----1-----  
-----  
>ENSRNOG00000005504 hs-mir-223 544 551  
UGUCAGUUUGUCAAAUACCCCAA&GUAUUGCAGUGUGUCAUUUGAAAAGAGAUUUGAAGAACUGACAG  
(((((((((((((.....&.....)))))))).))))). -  
21.90  
>ENSRNOG00000005504 hs-mir-223 1379 1386  
UGUCAGUUUGUCAAAUACCCCAA&UCCACAGCAGAGGCUGCUGGGUAAUGUCCUGAGGAACUGACAC  
(((((((((((((.....(((((.&.....)))))))).))))). -  
25.40