

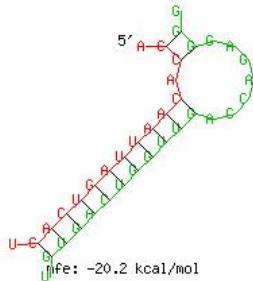
Figure S1: RNAhybrid mRNA/miRNA alignments

Bcap29

Bcap29: SPRET with miRNA-134

```
position 431
target 5' A A U 3'
          CC CAAUUAGUCAC
          GG GUUGGUUCAGUG
miRNA 3' G GAGACCA U 5'

mfe: -20.2 kcal/mol
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***Bcap29*: NIH with miRNA-134 No Predicted Alignment**

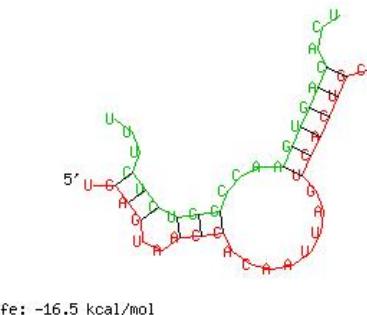
***Bcap29*: SPRET with miR-128**

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position 425
target 5'     U     UA     ACAAUUAG          C   3'
                  GAG   ACC           UCACUG
                  CUC   UGG           AGUGAC
miRNA 3' UUU           CCA           ACU 5'

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mfe: -16.5 kcal/mol



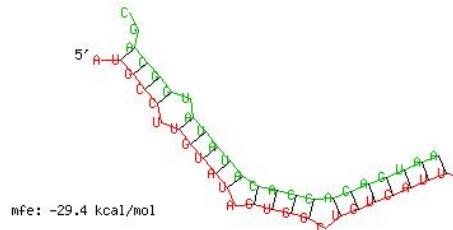
Bcap29: NIH with miR-128- no predicted alignment

Dgkb

Dgkb SPRET with *miR-489*

position 96
target 5' A U A C G 3'
UGCC UGUUAU GUGG UGUCAUU
ACGG AUAAUA CACC ACAGUAA
miRNA 3' CG U

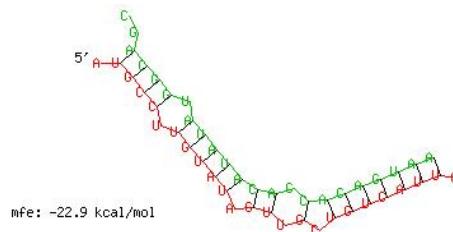
mfe: -29.4 kcal/mol



Dgkb NIH with *miR-489*

position 96
target 5' A U A **U** C G 3'
UGCC UGUUAU GU G UGUCAUU
ACGG AUAAUA CA C ACAGUAA
miRNA 3' CG U C 5'

mfe: -22.9 kcal/mol

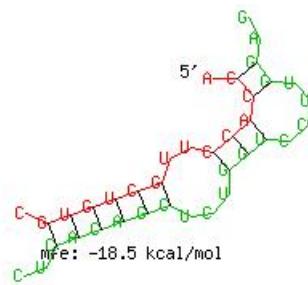


Etv1

Etv1 SPRET with *miR-673-5p*

position 43

target 5' A UU C 3'
 CC ACC GCUG GUG
 GG UGG CGACAC
 miRNA 3' GA UUCC UCU UC 5'
 mfe: -18.5 kcal/mol

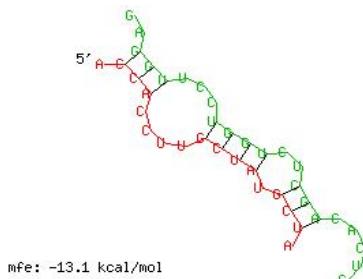


Etv1 NIH with *miR-673-5p*

position 43

target 5' A CCUU U A 3'
 CCA GCUA GCU
 GGU UGGU CGA
 miRNA 3' GA UCC CU CACUC 5'

mfe: -13.1 kcal/mol

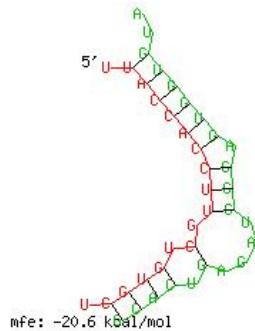


Etv1 SPRET with *miR-674*

position 41

target 5' U G U U 3'
 UACCAC CUU C GUGC
 GUGGUG GGG G CACG
 miRNA 3' AU A UAGA U 5'

mfe: -20.6 kcal/mol

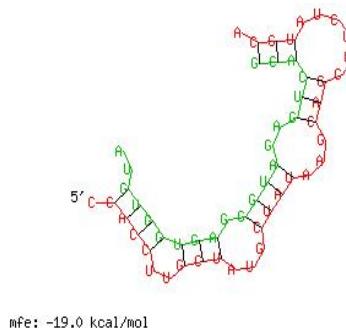


Etv1 NIH with *miR-674*

position 44

target 5' C UU AUG AAG CUUCUA A 3'
 CACC GCU CUAU CAG UGC
 GUGG UGA GGUA GUC ACG
 miRNA 3' AU G GA 5'

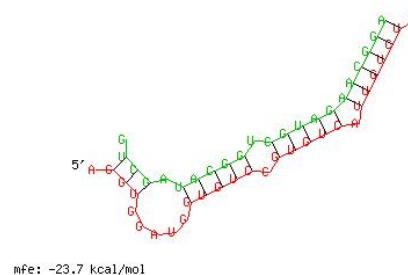
mfe: -19.0 kcal/mol



Hbp1

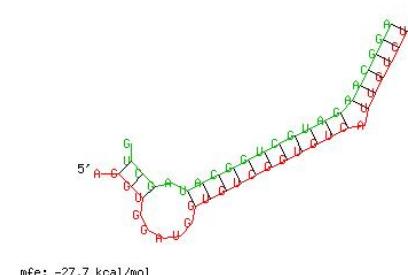
Hbp1 SPRET with *miR-31*

position 517
target 5' A GGAUG C A C 3'
 GGU GUGUC GUGUC UUGUCU
 UCG UACGG CGUAG AACGGA
miRNA 3' G A U 5'
mfe: -23.7 kcal/mol



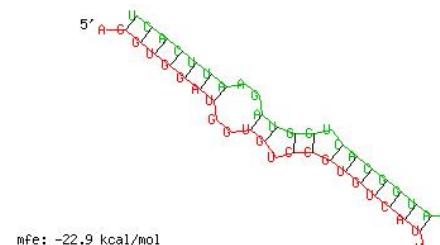
Hbp1 NIH with *miR-31*

position 517
target 5' A GGAUG A C 3'
 GGU GUGUC G GUGUC UUGUCU
 UCG UACGGUCGUAG AACGGA
miRNA 3' G A
mfe: -27.7 kcal/mol



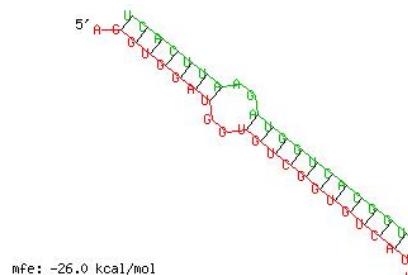
Hbp1 SPRET with *miR-183*

position 517
target 5' A GG U U 3'
 GGUGGAU UG CC GUGUCAU
 UCACUUA AU GG CACGGUA
miRNA 3' AG U U 5'
mfe: -22.9 kcal/mol



Hbp1 NIH with *miR-183*

position 517
target 5' A GG U 3'
 GGUGGAU UGUC G GUGUCAU
 UCACUUA AUGGUCACGGUA
miRNA 3' AG U 5'
mfe: -26.0 kcal/mol

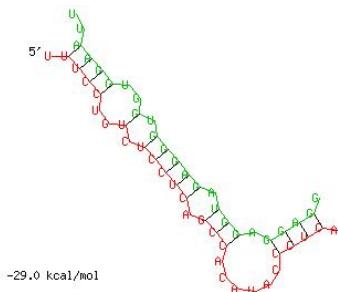


Hbp1* SPRET with *miR-5110

position 718

target 5' U UG C A ACAUAC A 3'
UUCC U UCCUC GCC CCUC
AAGG G GGGAG UGG GGAG
miRNA 3' UU UG U A A G 5'

mfe: -29.0 kcal/mol

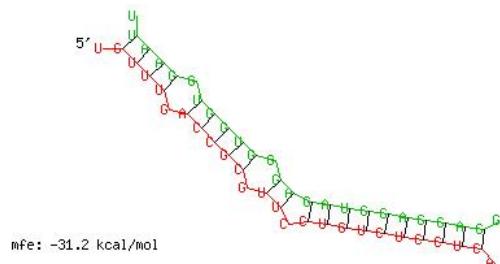


Hbp1* NIH with *miR-5110

position 714

target 5' U G G C A 3'
GUUU ACCGC UU CUGUCUCCUC
UAAG UGGUG GA GAUGGAGGAG
miRNA 3' U G G G 5'

mfe: -31.2 kcal/mol

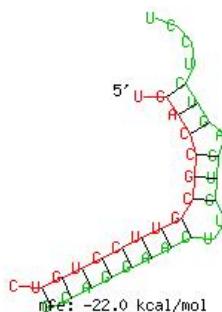


***Hbp1* SPRET with *miR-873* -no predicted alignments**

Hbp1* NIH with *miR-873

position 718

target 5' U C 3'
GAC CGC GUUCCUGU
CUU GUG CAAGGACG
miRNA 3' UCCU A UU 5'
mfe: -22.0 kcal/mol

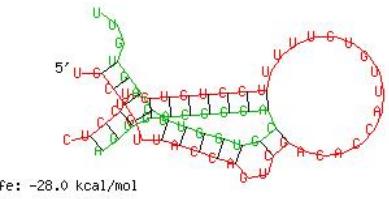


Hbp1 SPRET with *miR-92b*

position 690

target 5' U U GU ACACCAUUGUGUUUU U C 3'
 GCUG UACCA CG
 UGAC GUGGU GC
 miRNA 3' UUG

mfe: -28.0 kcal/mol

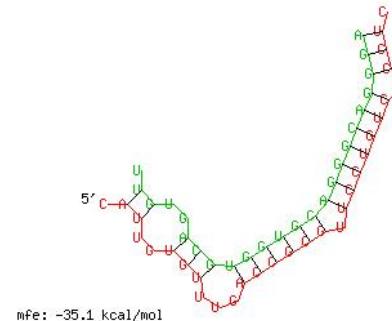


Hbp1 NIH with *miR-92b*

position 709

target 5' C UG UUG U U C 3'
 AU UGU ACCGCG UCCUGUC CCU
 UG ACG UGGUGC AGGGCAG GGA
 miRNA 3' U UG

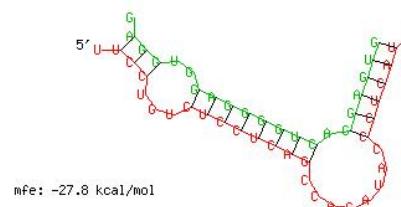
mfe: -35.1 kcal/mol



Hbp1 SPRET with *miR-1224*

position 719

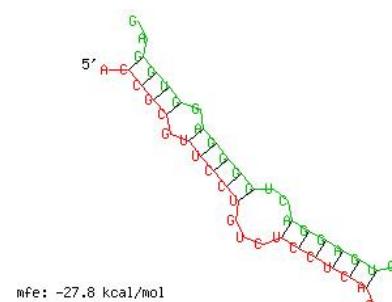
target 5' U UGU CCACAUAC C 3'
 UCC CUCCUCAG CCUCAU
 AGG GAGGGGUC GGAGUG
 miRNA 3' G UG A 5'
 mfe: -27.8 kcal/mol



Hbp1 NIH with *miR-1224*

position 720

target 5' A G GUC G 3'
 CCGC UUCCU UCCUCA
 GGUG AGGGG AGGAGU
 miRNA 3' GA G UC G 5'
 mfe: -27.8 kcal/mol

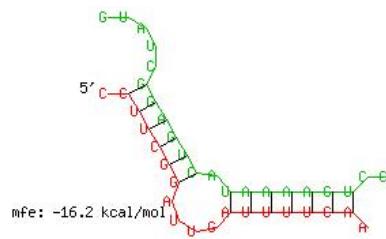


Ifid1

Ifid1 SPRET with *miR-875-3p*

position 181

target 5' C AUUG A 3'
CUUCGG AU_YUUCAG
GGAGUC UAAAAGU
miRNA 3' GUAUC A CC 5'
mfe: -16.2 kcal/mol



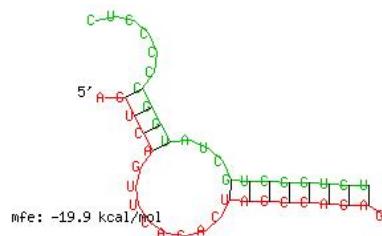
Ifid1 NIH with *miR-875-3p*-no predicted binding

Ifid1 SPRET with *miR-3085-3p*

position 199

target 5' A GUUCACAC G 3'
GUCA UA_YCCAGA
CGGU GUCGGUCU
miRNA 3' CUCCCC AUC 5'

mfe: -19.9 kcal/mol

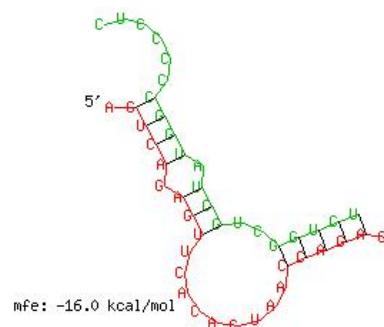


Ifid1 NIH with *miR-3085-3p*

position 200

target 5' A G UCACACUAA G 3'
GUCA AGU CCAGA
CGGU UCG GGUCU
miRNA 3' CUCCCC A UC 5'

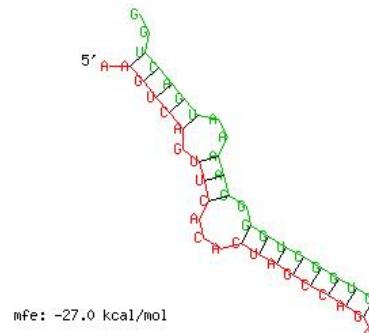
mfe: -16.0 kcal/mol



Ifrd1 SPRET with *miR-664**

position 198

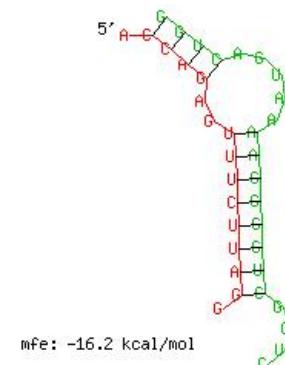
target 5' A G ACA A 3'
 AGUCA UUC CUAGCCAG
 UCAGU AAG GGUCGGUC
miRNA 3' GG AA G 5'
mfe: -27.0 kcal/mol



Ifrd1 NIH with *miR-664**

position 217

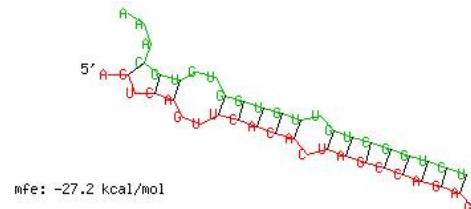
target 5' A AG G 3'
 CCAG UUUUUAG
 GGUC AAGGGGUC
miRNA 3' AGUAA GGUC 5'
mfe: -16.2 kcal/mol



Ifrd1 SPRET with *miR-3064-5p*

position 199

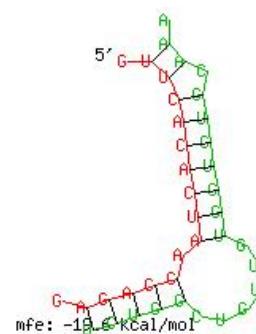
target 5' A U GU C G 3'
 G CA UCACA UAGCCAGA
 C GU GGUGU GUCGGUCU
miRNA 3' AAA GU U 5'
mfe: -27.2 kcal/mol



Ifrd1 NIH with *miR-3064-5p*

position 207

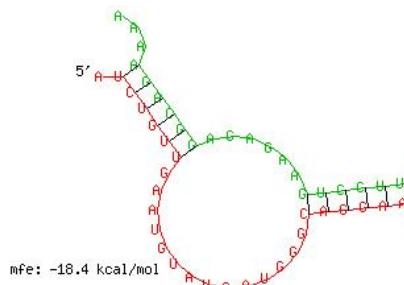
target 5' G A G 3'
 UU CACACUA CCAGA
 AA GUGUGGU GGUCU
miRNA 3' A C GUUGUC 5'
mfe: -19.6 kcal/mol



Twistnb

Twistnb SPRET with *miR-691*

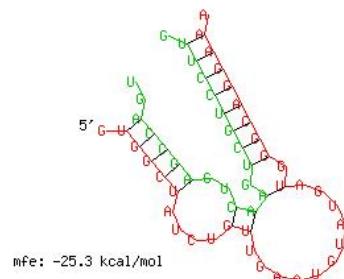
position 323
target 5' A GAAUGUAUGAUGGG A 3'
 UCUGUU CAGGAA
 AGACGG GUCCUU
miRNA 3' AAA AGAGAA A 5'
mfe: -18.4 kcal/mol



Twistnb NIH with *miR-691* no predicted binding

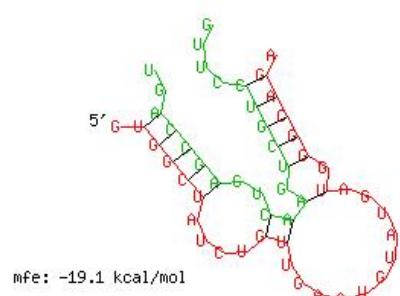
Twistnb SPRET with *miR-3074-5p*

position 317
target 5' G AUCU UGAAUGUAUGA G A 3'
 UGGCU GU U GGCAGGAA
 ACCGA CA A UCGUCCUU
miRNA 3' UG GU G 5'
mfe: -25.3 kcal/mol



Twistnb NIH with *miR-3074-5p*

position 317
target 5' G AUCU UGAAUGUAUGA G A 3'
 UGGCU GU U GGCAG
 ACCGA CA A UCGUC
miRNA 3' UG GU G CUUG 5'
mfe: -19.1 kcal/mol

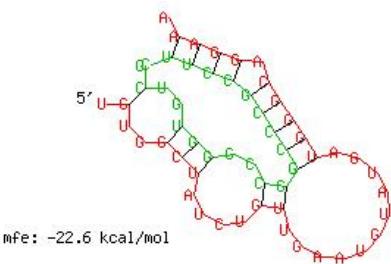


Twistnb* SPRET with *miR-718

position 316

target 5' U UG AUCU UGAAUGUAUGA A A 3'
 G GCU GU UGGC GAA
 C UGG CG GCCCG CCUU
miRNA 3' G UG GC C 5'

mfe: -22.6 kcal/mol



Twistnb* NIH with *miR-718

position 316

target 5' U UG AUCU UGAAUGUAUGA A A 3'
 G GCU GU UGGC GAA
 C UGG CG GCCCG CUU
miRNA 3' G UG GC C C 5'

mfe: -21.1 kcal/mol

