

RNAhybrid of the three gene-microRNA outlier pairs:

1. gene ENSG00000151553 / microRNA 199b-3p

RNAhybrid -s 3utr_human -m 100000 -t examples/ENSG00000151553.fasta -q RNAhybrid/199b-3p.fasta

result:

target: 10
length: 79289
miRNA : hsa-miR-199b-3p
length: 22

mfe: -29.3 kcal/mol
p-value: 0.998235

position 54049
target 5' G C UGCGGAA G 3'
GACUG UGUGC GGACUGCUGU
UUGGU ACACG UCUGAUGACA
miRNA 3' A U 5'

2. gene ENSG00000157778 / microRNA 500a-5p

RNAhybrid -s 3utr_human -m 100000 -t examples/ENSG00000157778.fasta -q RNAhybrid/500a-5p.fasta

result:

target: ENSG00000157778
length: 3674
miRNA : hsa-miR-500a-5p
length: 23

mfe: -28.5 kcal/mol
p-value: 0.593799

position 1725
target 5' C G 3'
CACCCAGGUGGU
GUGGGUCCAUCG
miRNA 3' AGA UUCCUAAU 5'

3. gene ENSG00000143195 / microRNA 199b-3p

RNAhybrid -s 3utr_human -m 100000 -t examples/ENSG00000143195.fasta -q RNAhybrid/199b-3p.fasta

result:

target: c hromosome:GRCh38:1:166895111:166976140:-1
length: 81032
miRNA : hsa-miR-199b-3p
length: 22

mfe: -28.3 kcal/mol
p-value: 0.999884

position 41570
target 5' G CU G C A 3'
AGCCA GUG GCAGGCU CUG
UUGGU UAC CGUCUGA GAC
miRNA 3' A A U A 5'