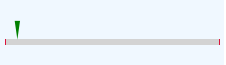
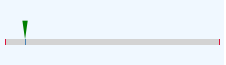
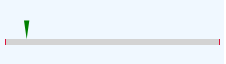
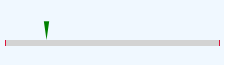
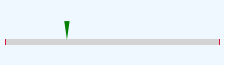
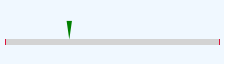
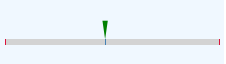
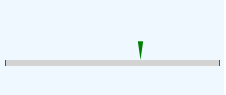
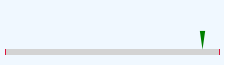
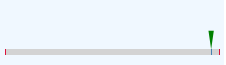


2D Structure	Local AU	Position	Conservation	Predicted By
7798 5'-ggacATGTTAGCT-CTACTTCa-3' UTR 3'-uugaUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed				
23193 5'-gtaTATGAAGGCCT-CTATCTCa-3' UTR 3'-uugAUACGU-UUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed				
25583 5'-ggggATTGACCT-CTATCTCc-3' UTR 3'-uugaUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed				
29042 5'-cgCTATGCGGT---CTATCTCt-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed				
30177 5'-cgCTACTACTA-CTACTACTTCt-3' UTR 3'-uuGAU-ACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed				
30198 5'-tagTACTGCTACTGCTACTTCt-3' UTR 3'-uugAU-ACGUUG--GAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed				
31051 5'-agaaATGGAATCTAGACCCTGCCTCa-3' UTR 3'-uugaUACGUUGGAU---GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed				
31325 5'-tcCCAGGCAATCTGACTACCTCt-3' UTR 3'-uuGAUACGUUGGA-UGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed				
60228 5'-ttcacaGTGATCTACCTGCCCTc-3' UTR 3'-uugauaCGUUGGAU-GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed				
65658 5'-acTTATGCCCACTCCATATCTCc-3' UTR 3'-uuGAUAC-GUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed				
74013 5'-ctcacaGTGATCTACCTGCCCTc-3' UTR 3'-uugauaCGUUGGAU-GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed				
82971 5'-gcCTGCTGTGACTTCCACCTCc-3' UTR 3'-uuGAU-ACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed				

2D Structure	Local AU	Position	Conservation	Predicted By
1318 5'-tgCCATCTGA CCTGC TGCCTCt -3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
4217 5'-tgCTTTGC--CCTGAC TGCCTCt -3' UTR 3'-uuGAUACGUUGGA-UGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
4820 5'-tcCTAGGC-ACCTAGCTC TGCCTCt -3' UTR 3'-uuGAUACGUUGGAU--GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
12306 5'-aggccTTCAC TCTGC TGCCTCc -3' UTR 3'-uugauACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
20005 5'-acaatTCCAAGGCTGC TGCCTCt -3' UTR 3'-uugauACGUU-GGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
20886 5'-ggTTGTGCTGCTTGCTATCTTt -3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
34396 5'-aaCTCAGAAATCTGCC TGCCTCt -3' UTR 3'-uuGAUACGUUGGAU-GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
47736 5'-gaaaaagatagacACTACCTCa-3' UTR 3'-uugauacguuggaUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M T
71109 5'-ctCAATG--ACTTCC TGCCTCt -3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
74361 5'-caggAGGCACTCACTGCCTCc -3' UTR 3'-uugaUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
79778 5'-ctgacTGCTTCCAAC TACCTTg-3' UTR 3'-uugauACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M

2D Structure	Local AU	Position	Conservation	Predicted By
4021 7mer-m8 4041 5'-aaCTAGTGTGG--TTCTACCTCt-3' UTR 3'-uuGAU-ACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	7mer-m8			
5028 Imperfect match 5048 5'-caggAAGTATCCT-CTTACTTCt-3' UTR 3'-uugaUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	Imperfect			
21264 7mer-m8 21285 5'-gtCTAGGGTGTAACTACCTCt-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	7mer-m8			
31267 7mer-m8 31287 5'-ctTTATCTATGT-CTTACCTCc-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	7mer-m8			
31332 Imperfect match 31353 5'-taaacacTAACTTCTTACTTCt-3' UTR 3'-uugauacGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	Imperfect			
33320 Imperfect match 33343 5'-aaCTATAGAGACTTTCTTACTTCt-3' UTR 3'-uuGAUA-CGUUG-GAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	Imperfect			
39633 Imperfect match 39657 5'-caaTATGCCAGTACCACTATCTCt-3' UTR 3'-uugAUAC--GUUG-GAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	Imperfect			
41196 7mer-m8 41217 5'-gaactccCAATCTTCTTACCTCc-3' UTR 3'-uugauacGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	7mer-m8			
41734 7mer-m8 41756 5'-agtgATAGCATCCACCTACCTCt-3' UTR 3'-uugaUA-CGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	7mer-m8			
46631 Imperfect match 46652 5'-atCTCACCAGCCCCTGCCTCc-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	Imperfect			
49418 Imperfect match 49440 5'-gtCTGAGTCAGCCCTCTGCCTCt-3' UTR 3'-uuGAUAC-GUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	Imperfect			

2D Structure	Local AU	Position	Conservation	Predicted By
5764 5'-ccacAGGTAGTCAGCTATCTCa-3' UTR 3'-uugaUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
18951 5'-taCTCTGAAATCCACCTGCCTCt-3' UTR 3'-uuGAUA CGUUGGAU-GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
19165 5'-tcTTATG-AGGCTACTCTACCTCt-3' UTR 3'-uuGAUA CGUUGGAU-GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M T
20343 5'-ttCCATAGGAGCC-ACTACTTCT-3' UTR 3'-uuGAUA CGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
25953 5'-ttCTGT-CAACCCAGCTGCCTCa-3' UTR 3'-uuGAUA CGUUGGAU-GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
43360 5'-gtaacTCCAACt-CTACCTCt-3' UTR 3'-uugauA CGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M T
46141 5'-taCAAAcCATTCTCTCTACCTCt-3' UTR 3'-uuGAUA CGUUGGA-UGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M T
48481 5'-ggcagcaCACCATACTACTTCa-3' UTR 3'-uugaua CGUUGG-AUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
53354 5'-ctgTAAACTACCTACCTACTCTCt-3' UTR 3'-uugAUA CGUUGGAU-GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M T
65228 5'-ggcagcaCACCATACTACTTCa-3' UTR 3'-uugaua CGUUGG-AUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
67826 5'-ttTTCTGCTACCTGCTGTCTCt-3' UTR 3'-uuGAUA CGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M

2D Structure	Local AU	Position	Conservation	Predicted By
4373 5'-tgCCATCTGACCTGCTGCCTCt-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16151413 765432 3'pairing Seed			☐	M
7272 5'-tgCTTTGC--CCTGACTGCCTCc-3' UTR 3'-uuGAUACGUUGGA-UGAUGGAGa-5' miRNA 16151413 765432 3'pairing Seed			☐	M
7875 5'-tcCTAGGC-ACCTAGCTCTGCCTCt-3' UTR 3'-uuGAUACGUUGGAU--GAUGGAGa-5' miRNA 16151413 765432 3'pairing Seed			☐	M
15361 5'-aggccTTCACCTCTGCTGCCTCc-3' UTR 3'-uugauACGUUGGAUGAUGGAGa-5' miRNA 16151413 765432 3'pairing Seed			☐	M
23060 5'-acaatTCCAAGGCTGCTGCCTCt-3' UTR 3'-uugauACGUU-GGAUGAUGGAGa-5' miRNA 16151413 765432 3'pairing Seed			☐	M
23941 5'-ggTTGTGCTGCTTGCTATCTTt-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16151413 765432 3'pairing Seed			☐	M
37451 5'-aaCTCAGAAATCTGCCTGCCTCt-3' UTR 3'-uuGAUACGUUGGAU-GAUGGAGa-5' miRNA 16151413 765432 3'pairing Seed			☐	M
50791 5'-gaaaaagatagacACTACCTCa-3' UTR 3'-uugauacguuggaUGAUGGAGa-5' miRNA 16151413 765432 3'pairing Seed			☐	M T
74164 5'-ctCAATG--ACTTCCGCTCt-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16151413 765432 3'pairing Seed			☐	M
77416 5'-caggAAGCCACTCACGCTCc-3' UTR 3'-uugaUACGUUGGAUGAUGGAGa-5' miRNA 16151413 765432 3'pairing Seed			☐	M

2D Structure	Local AU	Position	Conservation	Predicted By
3430 5'-gcCT-TGAAATCTACCTGCCTCt-3' UTR 3'-uuGAUACGUUGGAU-GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
3648 5'-ccCTA-GTGACATACCTGCCTCt-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
8006 5'-aaCTCAGAAATCTGCCCTGCCTCt-3' UTR 3'-uuGAUACGUUGGAU-GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
12762 5'-gaaaagacAGAC-ACTACCTCca-3' UTR 3'-uugauacGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M T
19782 5'-gtaacaGCAGTTTCACTACTTCa-3' UTR 3'-uugauacGUUGGA-UGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
38912 5'-gcgctctctcCTCGCTGCCTCt-3' UTR 3'-uugauacguuGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
39476 5'-aaCTCAGAAATCTGCCCTGCCTCt-3' UTR 3'-uuGAUACGUUGGAU-GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
40196 5'-gaTTGGCCAGCACTTCTACCTCca-3' UTR 3'-uuGAUACGUUG-GAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M T
47703 5'-acaaagacAGAC-ACTACCTCca-3' UTR 3'-uugauacGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M T
48042 5'-atCTCTGCATGTATATTACCTCca-3' UTR 3'-uuGAUACGUU-UGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M T
56586 5'-gcCTATGCTTCAGCTCCCTGCCTC-3' UTR 3'-uuGAUACG--UUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
69077 5'-gcaTATGTGACCTCAAAGCCCTGCCTCc-3' UTR 3'-uugAUACGUUGGA---U--GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
77394 5'-tcaaagacAAAC-ACTACCTCca-3' UTR 3'-uugauacGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M T
86748 5'-aaCTCAGAAATCTGCCCTGCCTCt-3' UTR 3'-uuGAUACGUUGGAU-GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
90403 5'-ttgagtctccagatCTACCTCt-3' UTR 3'-uugauacguuuggauGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M T

2D Structure	Local AU	Position	Conservation	Predicted By
642 5'-tgCCATCTGACCTGCTGCCTCt-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 3'pairing Seed	TGCCTC Imperfect		☐	M
3541 5'-tgCTTTGC--CCTGACTGCCTCc-3' UTR 3'-uuGAUACGUUGGA-UGAUGGAGa-5' miRNA 3'pairing Seed	TGCCTC Imperfect		☐	M
4144 5'-tcCTAGGC-ACCTAGCTCTGCCTCt-3' UTR 3'-uuGAUACGUUGGAU--GAUGGAGa-5' miRNA 3'pairing Seed	TGCCTC Imperfect		☐	M
11630 5'-aggccTTCACCTCTGCTGCCTCc-3' UTR 3'-uugauACGUUGGAUGAUGGAGa-5' miRNA 3'pairing Seed	TGCCTC Imperfect		☐	M
19329 5'-acaatTCCAAGGCTGCTGCCTCt-3' UTR 3'-uugauACGUU-GGAUGAUGGAGa-5' miRNA 3'pairing Seed	TGCCTC Imperfect		☐	M
20210 5'-ggTTGTGCTGCTTGCTATCTTt-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 3'pairing Seed	TATCTT Imperfect		☐	M
33720 5'-aaCTCAGAAATCTGCCTCt-3' UTR 3'-uuGAUACGUUGGAU-GAUGGAGa-5' miRNA 3'pairing Seed	TGCCTC Imperfect		☐	M
47060 5'-gaaaaagatagacACTACCTCa-3' UTR 3'-uugauacguuggaUGAUGGAGa-5' miRNA 3'pairing Seed	CTACCTCA 8mer		☐	M T
70433 5'-ctCAATG--ACTTCCGCTCt-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 3'pairing Seed	TGCCTC Imperfect		☐	M
73685 5'-caggAAGCCACTCACGCTCc-3' UTR 3'-uugaUACGUUGGAUGAUGGAGa-5' miRNA 3'pairing Seed	TGCCTC Imperfect		☐	M

2D Structure	Local AU	Position	Conservation	Predicted By
193 5'-tgCTTTGC--CCTGAC TGCCTC c-3' UTR 3'-uuGAUAC CGUU GGA-UG AUGGAG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
796 5'-tcCTAGGC-ACCTAGCTC TGCCTC t-3' UTR 3'-uuGAUAC CGUU GGAU--G AUGGAG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
8282 5'-aggcc TCAC TCTGC TGCCTC c-3' UTR 3'-uugau ACGUU GGAUG AUGGAG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
15981 5'-acaat TCCA AGGCTGC TGCCTC t-3' UTR 3'-uugau ACGUU -GGAUG AUGGAG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
16862 5'-ggTTGT GCTG CTTGC TATCTT t-3' UTR 3'-uuGAUAC CGUU GGAUG AUGGAG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
30372 5'-aaCTCAGAA TCTGCC TGCCTC t-3' UTR 3'-uuGAUAC CGUU GGAU-G AUGGAG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
43712 5'-gaaaa gata gacAC TACCTC a-3' UTR 3'-uugaua cg u gg aUG AUGGAG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M T
67085 5'-ctCAATG--ACTTCC TGCCTC t-3' UTR 3'-uuGAUAC CGUU GGAUG AUGGAG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
70337 5'-caggA AGCC ACTCAC TGCCTC c-3' UTR 3'-uugaUA CGUU GGAUG AUGGAG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
77947 5'-tgCCAT GTGA CTGCT TGCCTC t-3' UTR 3'-uuGAUAC CGUU GGAUG AUGGAG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
79679 5'-gggtcc TGA CCTGTGGC TACCTC c-3' UTR 3'-uugaua c GUU GGA --UG AUGGAG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M T

2D Structure	Local AU	Position	Conservation	Predicted By
8087 8108 5'-gctccgtCATTAACTACCTCa-3' UTR 3'-uugauacGUUGGAUGAUGGAGa-5' miRNA 3'pairing Seed	TACCTCA 8mer		☐	M T
12805 12827 5'-aactcaaaAACTGCCTGCCTCt-3' UTR 3'-uugauacGUUGGAUAUGGAGa-5' miRNA 3'pairing Seed	TGCCTC Imperfect		☐	M
16570 16592 5'-aaCTCTGAAATCTGCCTGCCTCt-3' UTR 3'-uuGAUACGUUGGAUAUGGAGa-5' miRNA 3'pairing Seed	TGCCTC Imperfect		☐	M
19920 19942 5'-aaCTCAGAAATTTACCTGCCTCt-3' UTR 3'-uuGAUACGUUGGAUAUGGAGa-5' miRNA 3'pairing Seed	TGCCTC Imperfect		☐	M
20246 20268 5'-ttCTTGGGAGTCTAGCTGCCTCt-3' UTR 3'-uuGAUACGUUGGAUAUGGAGa-5' miRNA 3'pairing Seed	TGCCTC Imperfect		☐	M
23019 23041 5'-aaCTCAGAAACCTGTCTGCCTCt-3' UTR 3'-uuGAUACGUUGGAUAUGGAGa-5' miRNA 3'pairing Seed	TGCCTC Imperfect		☐	M
26127 26148 5'-aaaTCTGCCAGTCT-TGCCTCc-3' UTR 3'-uugAUACGUUGGAUGAUGGAGa-5' miRNA 3'pairing Seed	TGCCTC Imperfect		☐	M
27192 27214 5'-aaTTATGTACAATTGCTACCTCt-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 3'pairing Seed	CTACCTC 7mer-m8		☐	M T
32210 32231 5'-gggtagagtACCTTCTACTTCt-3' UTR 3'-uugauacGUUGGAUGAUGGAGa-5' miRNA 3'pairing Seed	TACTTC Imperfect		☐	M
38273 38292 5'-atCCATGT-GCCT-TGCCTCt-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 3'pairing Seed	TGCCTC Imperfect		☐	M
52115 52136 5'-acaaccTGAGATTCTACCTCa-3' UTR 3'-uugauacGUUGGAUGAUGGAGa-5' miRNA 3'pairing Seed	CTACCTCA 8mer		☐	M T

2D Structure	Local AU	Position	Conservation	Predicted By
6720 5'-gcCT-TGAAATCTACC TGCCTC t-3' UTR 3'-uuGAUACGUUGGAU-GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 TGCCTC Imperfect		☐	M
6938 5'-ccCTA-GTGACATAC TGCCTC t-3' UTR 3'-uuGAUACGUUGGAU-GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 TGCCTC Imperfect		☐	M
11296 5'-aaCTCAGAAATCTGCC TGCCTC t-3' UTR 3'-uuGAUACGUUGGAU-GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 TGCCTC Imperfect		☐	M
16052 5'-gaaaagaCAGAC-AC TACCTC a-3' UTR 3'-uugauaCGUUGGAUGAUGGAGa-5' miRNA 7 6 5 4 3 2 Seed	 CTACCTCA 8mer		☐	M T
23072 5'-gtaacaGCAGTTTCAC TACTTC a-3' UTR 3'-uugauaCGUUGGA-UGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 TACTTC Imperfect		☐	M
42202 5'-gcgcttctctCCTGC TGCCTC t-3' UTR 3'-uugauaCGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 TGCCTC Imperfect		☐	M
42766 5'-aaCTCAGAAATCTGCC TGCCTC t-3' UTR 3'-uuGAUACGUUGGAU-GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 TGCCTC Imperfect		☐	M
43486 5'-gaTTGGCCAGCACTTC TACCTC a-3' UTR 3'-uuGAUACGUUG-GAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 CTACCTCA 8mer		☐	M T
50993 5'-acaaagaCAGAC-AC TACCTC a-3' UTR 3'-uugauaCGUUGGAUGAUGGAGa-5' miRNA 7 6 5 4 3 2 Seed	 CTACCTCA 8mer		☐	M T
51332 5'-atCTCTGCATGTATAT TACCTC a-3' UTR 3'-uuGAUACGU-UUGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 TTACCTCA 7mer-A1		☐	M T
59876 5'-gcCTATGCTTCAGCTCC TGCCTC c-3' UTR 3'-uuGAUACG--UUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 TGCCTC Imperfect		☐	M
72367 5'-gcaTATGTGACCTCAAAGCC TGCCTC c-3' UTR 3'-uugAUACGUUGGA--U--GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 TGCCTC Imperfect		☐	M
80684 5'-tcaaagaCAAC-AC TACCTC a-3' UTR 3'-uugauaCGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 CTACCTCA 8mer		☐	M T

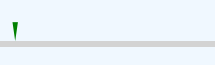
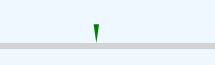
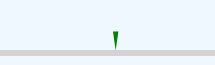
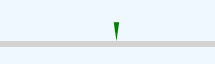
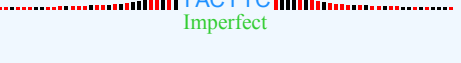
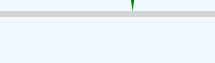
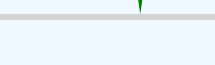
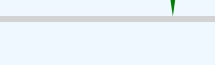
2D Structure	Local AU	Position	Conservation	Predicted By
3490 5'-aatggcGCCACCTAC TGCCTT c-3' UTR 3'-uugauaCGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 TGCCTT Imperfect		☐	M
22129 5'-agCTTG GTG ACCTCC TATCTC t-3' UTR 3'-uuGAUA CGUU GGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 TATCTC Imperfect		☐	M
25927 5'-tgCTGG GATG ACTAC TACTTC a-3' UTR 3'-uuGAUA CGUU GGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 TACTTC Imperfect		☐	M
35090 5'-ggggAT TTG ACCT-C TATCTC c-3' UTR 3'-uugaUA CGUU GGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 TATCTC Imperfect		☐	M
41961 5'-tatgAT GGA TGATGC TACCTC a-3' UTR 3'-uugaUA CGUU G-GAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 CTACCTCA 8mer		☐	M T
46574 5'-caagGT GC -ACTTCC TGCCTC t-3' UTR 3'-uugaUA CGUU GGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 TGCCTC Imperfect		☐	M
71395 5'-tgCTAT GC -ACC-AC TACTTT t-3' UTR 3'-uuGAUA CGUU GGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 TACTTT Imperfect		☐	M
72977 5'-aatgggt CAAC ATT TACTTC c-3' UTR 3'-uugaua cGUU GGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 TACTTC Imperfect		☐	M
78632 5'-tatacc GTGAC --AC TACCTC t-3' UTR 3'-uugaua CGUU GGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 CTACCTC 7mer-m8		☐	M T
84760 5'-tagTGG GCAA ATT- TACCTC c-3' UTR 3'-uugAU ACGU -UGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 CTACCTC 7mer-m8		☐	M T
91013 5'-acaaAT GCAC CCCATC TGCCTC t-3' UTR 3'-uugaUA CGU -UGGAU-GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 TGCCTC Imperfect		☐	M

2D Structure	Local AU	Position	Conservation	Predicted By
7228 5'-aatggcGCCACCTACTGCCTTc-3' UTR 3'-uugauaCGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
25867 5'-agCTTGGTGACCTCCATATCTc-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
29665 5'-tgCTGGGATGACTACTACTTca-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
38828 5'-ggggATTGACCT-CATATCTc-3' UTR 3'-uugaUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
45699 5'-tatgATGGAATGATGCTACCTCa-3' UTR 3'-uugaUACGUUG-GAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M T
50312 5'-caagGTGC-ACCTCCGTCCTc-3' UTR 3'-uugaUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
75133 5'-tgCTATGC-ACC-ACACTTTt-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
76715 5'-aatgggtCAACATTCACCTTc-3' UTR 3'-uugauaCGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
82370 5'-tataccGTGAC--ACTACCTc-3' UTR 3'-uugauaCGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M T
88498 5'-tagTGGGCAATT-CTACCTc-3' UTR 3'-uugAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M T
94751 5'-acaaATGCACCCCATCTGCCTc-3' UTR 3'-uugaUACGU-UGAU-GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M

2D Structure	Local AU	Position	Conservation	Predicted By
8291 5'-caaactACCacattctACCTTcc-3' UTR 3'-uugauACGUUGGAUGAGGAgA-5' miRNA 7mer-m8 3' pairing Seed	CTACCTC 7mer-m8		☐	(M) (T)
10227 5'-atctAI-CTATCTATCTATCTt-3' UTR 3'-uugAUACGUUGGAU-GAUGGAgA-5' miRNA Imperfect match 10248 3' pairing Seed	TATCTC Imperfect		☐	(M)
21447 5'-ctCAATTCATGTTCTACCTT-3' UTR 3'-uugAUACGUUGGAUGAGGAgA-5' miRNA 7mer-m8 3' pairing Seed	CTACCTC 7mer-m8		☐	(M) (T)
23077 5'-gaacCTGTAG-AGACTACCTTc-3' UTR 3'-uugauACGUUGGAUGAGGAgA-5' miRNA 7mer-m8 3' pairing Seed	CTACCTC 7mer-m8		☐	(M) (T)
28929 5'-caacATGAAACGTTCTACCTTc-3' UTR 3'-uugAUACGUUGGAUGAGGAgA-5' miRNA 7mer-m8 3' pairing Seed	CTACCTC 7mer-m8		☐	(M) (T)
38922 5'-atCT-TGTACC-ACTGCCTCa-3' UTR 3'-uugAUACGUUGGAUGAGGAgA-5' miRNA Imperfect match 38941 3' pairing Seed	TG CCTC Imperfect		☐	(M)
43566 5'-ttTTCTGCAGAAACTACCTTt-3' UTR 3'-uugAUACGUUGGAUGAGGAgA-5' miRNA Offset 6mer 43587 3' pairing Seed	CTACCT Offset 6mer		☐	(M)
51142 5'-tcCTCAGGAATACTACTACCTT-3' UTR 3'-uugAUACGUUG-GAU-GAUGGAgA-5' miRNA 7mer-m8 3' pairing Seed	CTACCTC 7mer-m8		☐	(M) (T)
79030 5'-aatGATTCTCCCTGCTGCCTCa-3' UTR 3'-uugAUACGUUGGAUGAGGAgA-5' miRNA Imperfect match 79051 3' pairing Seed	TG CCTC Imperfect		☐	(M)
96260 5'-ccggGTGTAGCCCATCTATCTt-3' UTR 3'-uugauACG-UUGGAUGAGGAgA-5' miRNA Imperfect match 96282 3' pairing Seed	TATCTC Imperfect		☐	(M)

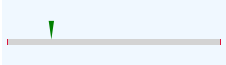
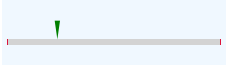
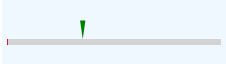
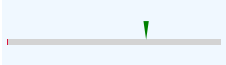
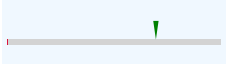
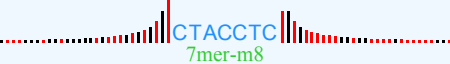
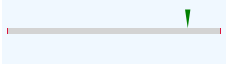
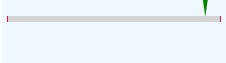
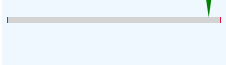
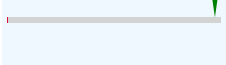
2D Structure	Local AU	Position	Conservation	Predicted By
17088 17110 5'-ttaTAGGCTTCAATCTACCTCc-3' UTR 3'-uugAUA^{16 15 14 13}CGUUGGAU-G^{7 6 5 4 3 2}AUGGAGa-5' miRNA 3' pairing Seed	7mer-m8		☐	M T
22471 22491 5'-ttgcAGGTAA-CAGCTACCTCa-3' UTR 3'-uugaUA^{16 15 14 13}CGUUGGAUG^{7 6 5 4 3 2}AUGGAGa-5' miRNA 3' pairing Seed	8mer		☐	M T
24206 24228 5'-ggaTATAAATAGTAGCTACCTCt-3' UTR 3'-uugAUA^{16 15 14 13}CGU-UGGAUG^{7 6 5 4 3 2}AUGGAGa-5' miRNA 3' pairing Seed	7mer-m8		☐	M T
29550 29572 5'-aaCTCAGAAATCTGCC^{Imperfect match}TGCCTCt-3' UTR 3'-uuGAUA^{16 15 14 13}CGUUGGAU-G^{7 6 5 4 3 2}AUGGAGa-5' miRNA 3' pairing Seed	Imperfect		☐	M
52140 52161 5'-ttaatTTCATTCTACTACCTCt-3' UTR 3'-uugauA^{16 15 14 13}CGUUGGAUG^{7 6 5 4 3 2}AUGGAGa-5' miRNA 3' pairing Seed	7mer-m8		☐	M T
52656 52676 5'-aaattc^{7mer-m8}aaAATCT-CTACCTCt-3' UTR 3'-uugaua^{16 15 14 13}cgUUGGAUG^{7 6 5 4 3 2}AUGGAGa-5' miRNA 3' pairing Seed	7mer-m8		☐	M T
57518 57540 5'-ccTTAATCAACTAAGCTATCTCa-3' UTR 3'-uuGAUA^{16 15 14 13}CGUUGGAU-G^{7 6 5 4 3 2}AUGGAGa-5' miRNA 3' pairing Seed	Imperfect		☐	M
70264 70287 5'-acCTTTTCCATCTACAC^{Imperfect match}TATCTCc-3' UTR 3'-uuGAUA^{16 15 14 13}CGUUGGA--UG^{7 6 5 4 3 2}AUGGAGa-5' miRNA 3' pairing Seed	Imperfect		☐	M
96747 96769 5'-ataTAAGTTGCTCACCTACCTCa-3' UTR 3'-uugAUA^{16 15 14 13}CGUUGGAU-G^{7 6 5 4 3 2}AUGGAGa-5' miRNA 3' pairing Seed	8mer		☐	M T
97031 97051 5'-aaaTAGGCAA-TGGCTGCCTCa-3' UTR 3'-uugAUA^{16 15 14 13}CGUUGGAUG^{7 6 5 4 3 2}AUGGAGa-5' miRNA 3' pairing Seed	Imperfect		☐	M

2D Structure	Local AU	Position	Conservation	Predicted By
21528 5'-tgCTGTCCAGCCTGAGCTGCCTCa-3' UTR 3'-uuGAUACGUUGGA--UGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed Imperfect match				
23206 5'-aaCTCAGAAATCTGCCATGCCTCt-3' UTR 3'-uuGAUACGUUGGAU-GAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed Imperfect match				
33098 5'-ctCTATCTCTATCT-CTATCTCt-3' UTR 3'-uuGAUA-CGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed Imperfect match				
33122 5'-ctCTATCTCTATCT-CTATCTCt-3' UTR 3'-uuGAUA-CGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed Imperfect match				
33152 5'-ctCTATCTCTACCT-CTACCTCt-3' UTR 3'-uuGAUA-CGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed 7mer-m8				
33165 5'-tctacctCTACCT-CTACCTCt-3' UTR 3'-uugauacGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed 7mer-m8				
33177 5'-tctacctCTACCT-CTACCTCt-3' UTR 3'-uugauacGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed 7mer-m8				
33189 5'-tctacctCTACCT-CTACCTCt-3' UTR 3'-uugauacGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed 7mer-m8				
33201 5'-tctacctCTACCT-CTACCTCt-3' UTR 3'-uugauacGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed 7mer-m8				
33244 5'-ctaTATCTATATCTATCTATCTCt-3' UTR 3'-uugAUACGU-UUGAU-GAUGGAGa-5' miRNA 16 15 14 7 6 5 4 3 2 3' pairing Seed Imperfect match				
46999 5'-agagcTGCACATCTGCTACCTac-3' UTR 3'-uugauACGU-UUGAUGAUGGAGa-5' miRNA 16 15 14 7 6 5 4 3 2 3' pairing Seed Offset 6mer				

2D Structure	Local AU	Position	Conservation	Predicted By
3461 5'-ctgcGTGCAGACTTCC<u>TGCCT</u>Ca-3' UTR : 3'-uugaUA<u>CGU</u>-UGGAUG<u>AUGGAG</u>a-5' miRNA : 3'pairing Seed 16 15 14 13 7 6 5 4 3 2	 TGCCTC Imperfect			
21760 5'-ctCTAT-CTGCCT-CTGCCTC-3' UTR : 3'-uuGAUA<u>CGU</u>UGGAUG<u>AUGGAG</u>a-5' miRNA : 3'pairing Seed 16 15 14 13 7 6 5 4 3 2	 TGCCTC Imperfect			
22058 5'-ctcacaGCGATCCTCC<u>TGCCT</u>Ct-3' UTR : 3'-uugaua<u>CGU</u>-GGAUG<u>AUGGAG</u>a-5' miRNA : 3'pairing Seed 16 15 14 13 7 6 5 4 3 2	 TGCCTC Imperfect			
23685 5'-tcTTATTGTGACCTTC<u>AACCT</u>Ct-3' UTR : 3'-uuGAUA<u>CGU</u>UGGAUG<u>AUGGAG</u>a-5' miRNA : 3'pairing Seed 16 15 14 13 7 6 5 4 3 2	 AACCTC Imperfect			
26122 5'-gtCTGTTCATCCTTC<u>AACCT</u>Ct-3' UTR : 3'-uuGAUA<u>CGU</u>UGGAUG<u>AUGGAG</u>a-5' miRNA : 3'pairing Seed 16 15 14 13 7 6 5 4 3 2	 AACCTC Imperfect			
26293 5'-gagcATATATTGAC<u>TACCT</u>Ct-3' UTR : 3'-uugaUA<u>CGU</u>UGGAUG<u>AUGGAG</u>a-5' miRNA : 3'pairing Seed 16 15 14 13 7 6 5 4 3 2	 CTACCTC 7mer-m8			
28735 5'-ccattaaaAAAGTACC<u>TACCT</u>Ct-3' UTR : 3'-uugaua<u>cgU</u>UGGAU-G<u>AUGGAG</u>a-5' miRNA : 3'pairing Seed 16 15 14 13 7 6 5 4 3 2	 CTACCTC 7mer-m8			
29935 5'-agaTGTGTCCCTTCAC<u>TACTT</u>Ca-3' UTR : 3'-uugAUA<u>CGU</u>UGGA-UGA<u>AUGGAG</u>a-5' miRNA : 3'pairing Seed 16 15 14 13 7 6 5 4 3 2	 TACTTC Imperfect			
31667 5'-ggCGATG--ACTTCC<u>TATCT</u>Ca-3' UTR : 3'-uuGAUA<u>CGU</u>UGGAUG<u>AUGGAG</u>a-5' miRNA : 3'pairing Seed 16 15 14 13 7 6 5 4 3 2	 TATCTC Imperfect			
39010 5'-atCTGTGT-GCCT-CTGCCTC-3' UTR : 3'-uuGAUA<u>CGU</u>UGGAUG<u>AUGGAG</u>a-5' miRNA : 3'pairing Seed 16 15 14 13 7 6 5 4 3 2	 TGCCTC Imperfect			

2D Structure	Local AU	Position	Conservation	Predicted By
149 5'-aaCAAGGCAGCCTAC <u>AACCTC</u> t-3' UTR : 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
15239 5'-atCT-TGCCCCC <u>AC</u> TGCCTCt-3' UTR : 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
16921 5'-ccagAAGCAACATGCTGCCTCt-3' UTR : 3'-uugaUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
32374 5'-ccTTAGGTATTCTCC <u>TGCCTC</u> t-3' UTR : 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
41023 5'-ggacGTACGACTTAAC <u>TGCCTC</u> c-3' UTR : 3'-uugaUACGUUGGA-UGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
43134 5'-aaCTCAGAAATCCTCC <u>TGCCTC</u> t-3' UTR : 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
49882 5'-aaatcccttGCTC- <u>CTACCTC</u> c-3' UTR : 3'-uugauacguUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M T
54753 5'-tcTTTTTCAGTTGTACT <u>TACTTC</u> t-3' UTR : 3'-uuGAUACGUUGG-AUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
58505 5'-acagATGCTCCCTCTC <u>TGCCTC</u> c-3' UTR : 3'-uugaUACGUUGGA-UGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
60994 5'-ctTTCTG-AAGTTT <u>CTACCTC</u> c-3' UTR : 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M T
71275 5'-ataatccCAGCCTTC <u>TGCCTC</u> t-3' UTR : 3'-uugauacGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
83251 5'-tcCTGTAAACCATCTACTGCCTCt-3' UTR : 3'-uuGAUA-CGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M

2D Structure	Local AU	Position	Conservation	Predicted By
1588 5'-agagATGC-TCTTGCTGCCTCt-3' UTR 3'-uugaUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match			☐	M
3299 5'-aaCAAAGCATGTGACTATCTCa-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match			☐	M
8096 5'-caTTGTGCAACTTACTATCTTg-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match			☐	M
11285 5'-ttagATG-AGTCTGCTATCTCt-3' UTR 3'-uugaUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match			☐	M
14426 5'-tgCTACTCACTACCCCTACCTCt-3' UTR 3'-uuGAUACGU--UGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed 7mer-m8			☐	M T
15797 5'-ccCTATGTAGCCCAGGCTACCTCa-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed 8mer			☐	M T
17735 5'-ttggATTGAGCCT-CTATCTCt-3' UTR 3'-uugaUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match			☐	M
19139 5'-ttcagcGTTATCTGCTACCTCt-3' UTR 3'-uugauACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed 7mer-m8			☐	M T
20237 5'-tgCTATGT-GCATTCTACCTCa-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed 8mer			☐	M T
25568 5'-atggtTGCTATTTTCTATCTCt-3' UTR 3'-uugauACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match			☐	M
25820 5'-taaggaGAAATCTTCTGCCTCt-3' UTR 3'-uugauACGUUGGAUGAUGGAGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match			☐	M

2D Structure	Local AU	Position	Conservation	Predicted By
17874 5'-agCCAAGCAATCTGCTACTTgg-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 3' pairing Seed	 TACTTG Imperfect		☐	M
20292 5'-tctcacCCATATCTACTTACTTCc-3' UTR 3'-uugauaCGU-UGGAUGAUGGAGa-5' miRNA 3' pairing Seed	 TACTTC Imperfect		☐	M
30535 5'-gggtagaatACCTTCTACTTct-3' UTR 3'-uugauaCGUUGGAUGAUGGAGa-5' miRNA 3' pairing Seed	 TACTTC Imperfect		☐	M
33848 5'-gcCCACGCAGGGTGCTGCCTCa-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 3' pairing Seed	 TGCCTC Imperfect		☐	M
56099 5'-tcCTGTCCAAATTGCTCCCTCc-3' UTR 3'-uuGAUACGUUGGAUGAUGGAGa-5' miRNA 3' pairing Seed	 TCCCTC Imperfect		☐	M
60045 5'-tcagAAGCAGTTAGCTATCTCc-3' UTR 3'-uugaUACGUUGGAUGAUGGAGa-5' miRNA 3' pairing Seed	 TATCTC Imperfect		☐	M
72883 5'-acaaagaCAGAC-ACTACCTCt-3' UTR 3'-uugauaCGUUGGAUGAUGGAGa-5' miRNA 3' pairing Seed	 CTACCTC 7mer-m8		☐	M T
79964 5'-aaCTCAGAAATCTGCCTGCCTCt-3' UTR 3'-uuGAUACGUUGGAU-GAUGGAGa-5' miRNA 3' pairing Seed	 TGCCTC Imperfect		☐	M
81344 5'-aaCTCAGAAATCTGCCTGCCTCt-3' UTR 3'-uuGAUACGUUGGAU-GAUGGAGa-5' miRNA 3' pairing Seed	 TGCCTC Imperfect		☐	M
83842 5'-atgaATGTATTGACTATCTCt-3' UTR 3'-uugaUACGU-UGGAUGAUGGAGa-5' miRNA 3' pairing Seed	 TATCTC Imperfect		☐	M

2D Structure	Local AU	Position	Conservation	Predicted By
2480 5'-ttCCTCT-GTTGG-CAGTCagt-3' UTR 3'-ggGGAGACCAGUUGGUCAGUgu-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed	 Offset 6mer CAGTCA Offset 6mer		☐	M
6307 5'-tgacaagaGTCAGCACAGTCACc-3' UTR 3'-ggggagacCAGUUG-GUCAGUGu-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed	 7mer-m8 CAGTCAC 7mer-m8		☐	M T
9433 5'-gacagCTCATTATTCAGTCACa-3' UTR 3'-ggggaGACCAGUUGGUCAGUGu-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed	 8mer CAGTCACA 8mer		☐	M T
20323 5'-ttCTTTATGTATACTAGTCACa-3' UTR 3'-ggGGAGACCAGUUGGUCAGUGu-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed	 7mer-A1 TAGTCACA 7mer-A1		☐	M T
23669 5'-gggCTTGGATCCACTAGTCACt-3' UTR 3'-gggGAGACCAGUUGGUCAGUGu-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed	 6mer AGTCAC 6mer		☐	M
33847 5'-ttCCTCT-GTTGG-CAGTCagt-3' UTR 3'-ggGGAGACCAGUUGGUCAGUgu-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed	 Offset 6mer CAGTCA Offset 6mer		☐	M
37675 5'-tgacaagaGTCAGCACAGTCACc-3' UTR 3'-ggggagacCAGUUG-GUCAGUGu-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed	 7mer-m8 CAGTCAC 7mer-m8		☐	M T
40801 5'-gacagCTCATTATTCAGTCACa-3' UTR 3'-ggggaGACCAGUUGGUCAGUGu-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed	 8mer CAGTCACA 8mer		☐	M T
51691 5'-ttCTTTATGTATACTAGTCACa-3' UTR 3'-ggGGAGACCAGUUGGUCAGUGu-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed	 7mer-A1 TAGTCACA 7mer-A1		☐	M T
55044 5'-gggCTTGGATCCACTAGTCACt-3' UTR 3'-gggGAGACCAGUUGGUCAGUGu-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed	 6mer AGTCAC 6mer		☐	M

2D Structure	Local AU	Position	Conservation	Predicted By
14076 5'-gaCCTTTAGACTTTTCAGTCATc-3' UTR 3'-ggGGAGACCAAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Offset 6mer			☐	M
18758 5'-atCCTGCTGGGC--CCAGTCATT-3' UTR 3'-ggGGA-GACCAAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Offset 6mer			☐	M
24546 5'-caaCTCTCCTAATACAGTCACt-3' UTR 3'-gggGAGACCAAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed 7mer-m8			☐	M T
26453 5'-ctgCTGTGTGACCACTAGTCACt-3' UTR 3'-gggGAGAC-CAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed 6mer			☐	M
30827 5'-tgggcCTGGTCAGTCAGTCGct-3' UTR 3'-ggggaGACCAAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match			☐	M
44323 5'-acaCCCTTCTCAA-TAGTCACa-3' UTR 3'-gggGAGACCAAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed 7mer-A1			☐	M T
64451 5'-acaCCCTTCTCAA-TAGTCACa-3' UTR 3'-gggGAGACCAAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed 7mer-A1			☐	M T
72758 5'-ggCTTCTGGACCTCCAGTCTC-3' UTR 3'-ggGGAGACCAAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match			☐	M
79586 5'-cgCCTCT-CCCACTCAGTTACc-3' UTR 3'-ggGGAGACCAAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match			☐	M
82257 5'-caCCTGTGGATTAATTAGTCACt-3' UTR 3'-ggGGAGACC-AGUUG-GUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed 7mer-m8			☐	M T
85896 5'-caatgCTTTCTCTCAGTCACt-3' UTR 3'-ggggaGACCAAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed 7mer-m8			☐	M T

2D Structure	Local AU	Position	Conservation	Predicted By
Offset 6mer 1487 5'-gaCCTTTGGAAGAGCAGTCAg-3' UTR 1508 3'-ggGGAGACCAGUUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M
Imperfect match 6992 5'-aggCTTT-ATAAGCCAGTTTa-3' UTR 7012 3'-gggGAGACCAGUUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M
7mer-m8 24738 5'-tagCTCAGG-CTATCAGTCACt-3' UTR 24758 3'-gggGAGACCAGUUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M T
7mer-m8 24808 5'-tagCTCAGG-CTATCAGTCACt-3' UTR 24828 3'-gggGAGACCAGUUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M T
7mer-m8 25014 5'-tagCTCAGG-CTATCAGTCACt-3' UTR 25034 3'-gggGAGACCAGUUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M T
7mer-m8 25049 5'-tagCTCAGG-CTATCAGTCACt-3' UTR 25069 3'-gggGAGACCAGUUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M T
7mer-m8 25216 5'-tagCTCAGG-CTATCAGTCACt-3' UTR 25236 3'-gggGAGACCAGUUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M T
7mer-m8 25251 5'-tagCTCAGG-CTATCAGTCACt-3' UTR 25271 3'-gggGAGACCAGUUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M T
7mer-m8 25418 5'-tagCTCAGG-CTATCAGTCACt-3' UTR 25438 3'-gggGAGACCAGUUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M T
Offset 6mer 40719 5'-gaCCTTTGGAAGAGCAGTCAg-3' UTR 40740 3'-ggGGAGACCAGUUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M
Imperfect match 44680 5'-ttaTTCTGGTCAAACAATCACt-3' UTR 44702 3'-gggGAGACCAG-UUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M
Imperfect match 50894 5'-tcCCACTTGGTCG--CAGTTACt-3' UTR 50913 3'-ggGGAGACCAGUUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M
Offset 6mer 51572 5'-agaCACT-GTTGCCAGTCAg-3' UTR 51592 3'-gggGAGACCAGUUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M
7mer-m8 65408 5'-aaaCCCTGACTAAGACAGTCACt-3' UTR 65430 3'-gggGAGAC-CAGUUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M T
Offset 6mer 76222 5'-ggTCTGTGAGTTCAGAGTCATg-3' UTR 76244 3'-ggGGAGAC-CAGUUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M
7mer-m8 76762 5'-gtCCTAAGTATCTCTCAGTCACt-3' UTR 76784 3'-ggGGAGAC-CAGUUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M T
Offset 6mer 77923 5'-gttgcCT-GTCAACCAGTCAgt-3' UTR 77943 3'-ggggaGACCAGUUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M
Imperfect match 87014 5'-tgCCTCTATTTAATTAGTCATa-3' UTR 87035 3'-ggGGAGACCAGUUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M
7mer-m8 89236 5'-ttTTTCTAATCA--CAGTCACt-3' UTR 89255 3'-ggGGAGACCAGUUGGUCAGUg-5' miRNA 3'pairing Seed			☐	M T

2D Structure	Local AU	Position	Conservation	Predicted By
Offset 6mer 5225 5'-gaCCTTCTGGAAGAGCAGTCAGt-3' UTR 3'-ggGGAGACCAAGUUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M
Imperfect match 10730 5'-aggCTTT-ATAAGCCAGTTACa-3' UTR 3'-gggGAGACCAAGUUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M
7mer-m8 28476 5'-tagCTCAGG-CTATCAGTCACt-3' UTR 3'-gggGAGACCAAGUUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M T
7mer-m8 28546 5'-tagCTCAGG-CTATCAGTCACt-3' UTR 3'-gggGAGACCAAGUUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M T
7mer-m8 28752 5'-tagCTCAGG-CTATCAGTCACt-3' UTR 3'-gggGAGACCAAGUUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M T
7mer-m8 28787 5'-tagCTCAGG-CTATCAGTCACt-3' UTR 3'-gggGAGACCAAGUUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M T
7mer-m8 28954 5'-tagCTCAGG-CTATCAGTCACt-3' UTR 3'-gggGAGACCAAGUUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M T
7mer-m8 28989 5'-tagCTCAGG-CTATCAGTCACt-3' UTR 3'-gggGAGACCAAGUUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M T
7mer-m8 29156 5'-tagCTCAGG-CTATCAGTCACt-3' UTR 3'-gggGAGACCAAGUUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M T
Offset 6mer 44457 5'-gaCCTTTGGAAGAGCAGTCAGc-3' UTR 3'-ggGGAGACCAAGUUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M
Imperfect match 48418 5'-ttaTTCGGTCAAAACAATCACt-3' UTR 3'-gggGAGACCAAG-UUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M
Imperfect match 54632 5'-tcCCACTGGTCG--CAGTTAct-3' UTR 3'-ggGGAGACCAAGUUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M
Offset 6mer 55310 5'-agaCACT-GTTGGCCAGTCAGg-3' UTR 3'-gggGAGACCAAGUUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M
7mer-m8 69146 5'-aaaCCCTGACTAAGACAGTCACt-3' UTR 3'-gggGAGAC-CAGUUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M T
Offset 6mer 79960 5'-ggTCTGTGAGTTTCAGCAGTCATg-3' UTR 3'-ggGGAGAC-CAGUUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M
7mer-m8 80500 5'-gtCCTAAGTATCTCTCAGTCACt-3' UTR 3'-ggGGAGAC-CAGUUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M T
Offset 6mer 81661 5'-gttgcCT-GTCAACCAGTCAGt-3' UTR 3'-ggggaGACCAAGUUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M
Imperfect match 90752 5'-tgCCTCTATTTAATTAGTCATa-3' UTR 3'-ggGGAGACCAAGUUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M
7mer-m8 92974 5'-ttTTTCTAATCA--CAGTCACt-3' UTR 3'-ggGGAGACCAAGUUGGUCAGUGu-5' miRNA 3'pairing Seed			☐	M T

2D Structure	Local AU	Position	Conservation	Predicted By
Offset 6mer 24544 5'-aaCTCCAGGGCATGCAGTCAc-3' UTR 3'-ggGGAGACCAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	CAGTCA Offset 6mer		☐	M
Offset 6mer 26489 5'-gggCTTTGGTTATTTCAGTCAg-3' UTR 3'-gggGAGACCAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	CAGTCA Offset 6mer		☐	M
Offset 6mer 31400 5'-gaCCTCTGGAAGAGGAGTCAat-3' UTR 3'-ggGGAGACCAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	CAGTCA Offset 6mer		☐	M
Imperfect match 37737 5'-tctgTGTGGTTATGCCAGTTAct-3' UTR 3'-ggggAGACCAGU-UGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	AGTTAC Imperfect		☐	M
Imperfect match 43153 5'-ctgtgtAGGTAAATCAGTTAct-3' UTR 3'-ggggagACCAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	AGTTAC Imperfect		☐	M
6mer 44509 5'-ttttaaGGTCTAATTAGTCACc-3' UTR 3'-ggggagACCAG-UUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	AGTCAC 6mer		☐	M
6mer 47665 5'-tcCCTATGGGAAACATAGTCACt-3' UTR 3'-ggGGAGACCAGUUG-GUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	AGTCAC 6mer		☐	M
Imperfect match 51657 5'-tgCTTGTGGGT-ACCAGTTAct-3' UTR 3'-ggGGAGACCAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	AGTTAC Imperfect		☐	M
Offset 6mer 63198 5'-taCTTCTACTTACACAGTCAAc-3' UTR 3'-ggGGAGACCAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	CAGTCA Offset 6mer		☐	M
Imperfect match 63656 5'-catagTTTGTCTATCAGTTAct-3' UTR 3'-ggggaACCAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	AGTTAC Imperfect		☐	M
Offset 6mer 65300 5'-aaggTTATTTAAGCAGTCAAt-3' UTR 3'-ggggAGACCAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	CAGTCA Offset 6mer		☐	M
7mer-m8 65311 5'-aagcagtcaTTATACCAGTCACt-3' UTR 3'-ggggagaccAGU-UGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	CAGTCAC 7mer-m8		☐	M T
8mer 70768 5'-tgctatatattCAATATCAGTCACa-3' UTR 3'-ggggagaccAGU--UGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	CAGTCACA 8mer		☐	M T
Imperfect match 76167 5'-tgCCTTTGGGAAAACATTCCACa-3' UTR 3'-ggGGAGACCAGUUGGUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	ATTCAC Imperfect		☐	M
8mer 87977 5'-acaTTCGATCTAACTTTTACAGTCACa-3' UTR 3'-gggGAGACCAG-UUG-----GUCAGUGu-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	CAGTCACA 8mer		☐	M T

2D Structure	Local AU	Position	Conservation	Predicted By
1161 5'-ttataCTGTGTATCAGTCAtt-3' UTR 3'-ggggaGAC-CAGUUGGUCAGUGu-5' miRNA 16151413 765432 3'pairing Seed			☐	M
3938 5'-gcCCTTTGGT--GCCAGTCAt-3' UTR 3'-ggGGAGACCAGUUGGUCAGUGu-5' miRNA 16151413 765432 3'pairing Seed			☐	M
22152 5'-aaataTTGGTATAGGTAGTCACa-3' UTR 3'-ggggaACCA-GUUGGUCAGUGu-5' miRNA 16151413 765432 3'pairing Seed			☐	M T
42143 5'-ttTCTGTGGAGCATCAGTCAtg-3' UTR : 3'-ggGGAGACCAGUUGGUCAGUGu-5' miRNA 16151413 765432 3'pairing Seed			☐	M
45654 5'-tgagagTGCTGAGCCAGTTAct-3' UTR 3'-gggggACCA-GUUGGUCAGUGu-5' miRNA 16151413 765432 3'pairing Seed			☐	M
47184 5'-atcaatcaatCAATCAGTCAg-3' UTR 3'-gggggaccAGUUGGUCAGUGu-5' miRNA 16151413 765432 3'pairing Seed			☐	M
57963 5'-ctgtgtactTCAAGTGTAGTCACa-3' UTR : 3'-gggggaccAGU--UGGUCAGUGu-5' miRNA 16151413 765432 3'pairing Seed			☐	M T
61073 5'-gataaaTGGGCGAATCAGTTACt-3' UTR 3'-gggggACCA-GUUGGUCAGUGu-5' miRNA 16151413 765432 3'pairing Seed			☐	M
62237 5'-tatataaGGTAATCCAGTTACc-3' UTR 3'-gggggacCA-GUUGGUCAGUGu-5' miRNA 16151413 765432 3'pairing Seed			☐	M
63140 5'-gcataCTGGTCTAGCAGTCATc-3' UTR 3'-ggggaACCA-GUUGGUCAGUGu-5' miRNA 16151413 765432 3'pairing Seed			☐	M
66221 5'-catcataactTCATTcAGTCACg-3' UTR 3'-gggggaccAGUUGGUCAGUGu-5' miRNA 16151413 765432 3'pairing Seed			☐	M T
72992 5'-atCCTCTCCGGTCTCATAGTCACt-3' UTR 3'-ggGGAGA---CCA-GUUGGUCAGUGu-5' miRNA 16151413 765432 3'pairing Seed			☐	M
81033 5'-caaacTTGCTTGAACcAGTCACc-3' UTR : 3'-ggggaACCA-GUUGGUCAGUGu-5' miRNA 16151413 765432 3'pairing Seed			☐	M T

2D Structure	Local AU	Position	Conservation	Predicted By
7243 7mer-m8 7264 5'-aacCCTGACT-AAGGCACCAGCt-3' UTR 3'-gccCGGACUAAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	CACCAGC 7mer-m8		☐	M T
8844 7mer-m8 8866 5'-ggGTGTCATAGAAAGCCACCAGCt-3' UTR 3'-gcCGGACUAAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	CACCAGC 7mer-m8		☐	M T
13581 Imperfect match 13605 5'-agGCACTGATTCAAATCATCAGCc-3' UTR 3'-gcCG-GACUAAAGUGUU-GUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	ATCAGC Imperfect		☐	M
23345 7mer-m8 23367 5'-ataatgctgggAGATCACCAGCt-3' UTR 3'-gccggacuaagUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	CACCAGC 7mer-m8		☐	M T
27230 Imperfect match 27252 5'-cacCCCCATTGGGGCATCAGCa-3' UTR 3'-gccGGACUAAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	ATCAGC Imperfect		☐	M
30945 7mer-m8 30969 5'-ggcCCAGGCTCTGCTAACACCAGCt-3' UTR 3'-gccGGACUAAAG-UG-UUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	CACCAGC 7mer-m8		☐	M T
32809 Imperfect match 32831 5'-ctcaggGTTAGGAGCACCGGct-3' UTR 3'-gccggaCUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	ACCGGC Imperfect		☐	M
40958 Imperfect match 40981 5'-acGTTTAACTTTAATACGCCAGCa-3' UTR 3'-gcCGGACU-AAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	GCCAGC Imperfect		☐	M
47856 Imperfect match 47878 5'-tccaaaGATTC-CAGTCATCAGCt-3' UTR 3'-gccggaCUAAGUGUU-GUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	ATCAGC Imperfect		☐	M
60006 7mer-m8 60025 5'-gacaCTGAT---CGTCACCAGCc-3' UTR 3'-gccgGACUAAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	CACCAGC 7mer-m8		☐	M T
60509 8mer 60533 5'-ggcCTTGAACTAGGACCACCAGCa-3' UTR 3'-gccGGACUAAAG-UGUU-GUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	CACCAGCA 8mer		☐	M T
64957 Imperfect match 64979 5'-ttctgTGATTGGGGCATCAGCa-3' UTR 3'-gccggACUAAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	ATCAGC Imperfect		☐	M
73737 7mer-m8 73756 5'-gacaCTGATTT---TCACCAGCc-3' UTR 3'-gccgGACUAAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	CACCAGC 7mer-m8		☐	M T
80628 Imperfect match 80650 5'-taGGCTGACTGAGACCATCAGCc-3' UTR 3'-gcCGGACUAAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed	ATCAGC Imperfect		☐	M

2D Structure		Local AU	Position	Conservation	Predicted By
736	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
2609	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
4482	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
6355	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
8228	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
10100	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
11973	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
13846	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
15718	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
17590	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
19460	5'-cacTTTGATTcATAACACCAagt-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
21340	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
23212	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
25085	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
26957	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
28829	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
30700	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
32571	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
34442	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
36312	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
38184	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
40056	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
41928	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
43800	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
45672	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
47544	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
49416	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
51288	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
53160	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
55032	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
56905	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
58765	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)
60632	5'-cacTTTGATTcATAACACCAagg-3' UTR 3'-gccGGACUAGAGUGUGUGGUGca-5' mRNA match 3'pairing Seed				(M)

2D Structure	Local AU	Position	Conservation	Predicted By
1450 5'-tgGCCTG--TCACAGACACCACC-3' UTR 3'-gccGGACUAAGUGU-UGUGGUCGa-5' miRNA 3'pairing Seed			☐	M
2309 5'-tccCTTTATTGCCCAATCATCAGCt-3' UTR 3'-gccGGACUAA--GUGUU-GUGGUCGa-5' miRNA 3'pairing Seed			☐	M
3154 5'-tgGCGGAATGTACTACCACCAGCa-3' UTR 3'-gccGGACUAAGUG-UUGUGGUCGa-5' miRNA 3'pairing Seed			☐	M T
3765 5'-ttgtgccATTTA-AACACCAGCa-3' UTR 3'-gccggacUAAGUGUUGUGGUCGa-5' miRNA 3'pairing Seed			☐	M T
8491 5'-taaCTTAAGTGATAACACACCAGCt-3' UTR 3'-gccGGACUAAGUGU-UGUGGUCGa-5' miRNA 3'pairing Seed			☐	M T
9437 5'-gctCATTATTCAGTCACACTAGCa-3' UTR 3'-gccGGACUAAGU-GUUGUGGUCGa-5' miRNA 3'pairing Seed			☐	M
15491 5'-accaCTGAGTCATCTCGCCAGCc-3' UTR 3'-gccgGACUAAGUGUUGUGGUCGa-5' miRNA 3'pairing Seed			☐	M
23669 5'-ggGCTTGGATCCACTAGTCACTAGCt-3' UTR 3'-gcCGGA-CUAAGUGUU--GUGGUCGa-5' miRNA 3'pairing Seed			☐	M
28472 5'-tattgTtACTATTAAcACCAGCa-3' UTR 3'-gccggACUAAGUGUUGUGGUCGa-5' miRNA 3'pairing Seed			☐	M T
32818 5'-tgGCCTG--TCACAGACACCACC-3' UTR 3'-gccGGACUAAGUGU-UGUGGUCGa-5' miRNA 3'pairing Seed			☐	M
33676 5'-tccCTTTATTGCCCAATCATCAGCt-3' UTR 3'-gccGGACUAA--GUGUU-GUGGUCGa-5' miRNA 3'pairing Seed			☐	M
34522 5'-tgGCAGAATGTACTACCACCAGCa-3' UTR 3'-gccGGACUAAGUG-UUGUGGUCGa-5' miRNA 3'pairing Seed			☐	M T
35133 5'-ttgtgccATTTA-AACACCAGCa-3' UTR 3'-gccggacUAAGUGUUGUGGUCGa-5' miRNA 3'pairing Seed			☐	M T
39859 5'-taaCTTAAGTGATAACACACCAGCt-3' UTR 3'-gccGGACUAAGUGU-UGUGGUCGa-5' miRNA 3'pairing Seed			☐	M T
40805 5'-gctCATTATTCAGTCACACTAGCa-3' UTR 3'-gccGGACUAAGU-GUUGUGGUCGa-5' miRNA 3'pairing Seed			☐	M
46858 5'-accaCTGAGTCATCTCGCCAGCc-3' UTR 3'-gccgGACUAAGUGUUGUGGUCGa-5' miRNA 3'pairing Seed			☐	M
55044 5'-ggGCTTGGATCCACTAGTCACTAGCt-3' UTR 3'-gcCGGA-CUAAGUGUU--GUGGUCGa-5' miRNA 3'pairing Seed			☐	M
59848 5'-tattgTtACTATTAAcACCAGCa-3' UTR 3'-gccggACUAAGUGUUGUGGUCGa-5' miRNA 3'pairing Seed			☐	M T

2D Structure	Local AU	Position	Conservation	Predicted By
9043 5'-ctcaaTGA ACT AC-AC ACCGGC t-3' UTR 3'-gccggAC UAAG UGUUG UGGUCG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
10775 5'-gttCCTG--TCTCGCC ACCGGC t-3' UTR 3'-gccGGAC UAAG UGUUG UGGUCG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
12234 5'-tgGCCTG ACCT GC-TC ACTAGC c-3' UTR 3'-gcCGGAC UAAG UGUUG UGGUCG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
23262 5'-acttaaa ATT TGTGAC ATCAGC a-3' UTR 3'-gccggac UAAG UGUUG UGGUCG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
36259 5'-ctcaCTGA ACT AC-AC ACCGGC t-3' UTR 3'-gccgGAC UAAG UGUUG UGGUCG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
39321 5'-cgGCCTG ACCT GC-TC ACTAGC c-3' UTR 3'-gcCGGAC UAAG UGUUG UGGUCG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M
39457 5'-acacaga ATT CGGAAGCT CACCAGC g-3' UTR 3'-gccggac UAAG UGUU--G UGGUCG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M T
45503 5'-acagCTA AGT CTT--C CACCAGC c-3' UTR 3'-gccgGAC UAAG UGUUG UGGUCG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M T
52973 5'-aaGCCAC AT --CATC CACCAGC c-3' UTR 3'-gcCGGAC UAAG UGUUG UGGUCG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M T
63998 5'-aatTCTCT AT TCAT ATCAGC a-3' UTR 3'-gccGGAC UAAG UGUUG UGGUCG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M T
67678 5'-ggcCCTC ATC -CATC ACCAGC a-3' UTR 3'-gccGGAC UAAG UGUUG UGGUCG a-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed			☐	M T

2D Structure	Local AU	Position	Conservation	Predicted By
19436 19458 5'-gtGCCTGGCAGACACACTAGCc-3' UTR 3'-gcCGGACUAAGUGUUGUGGUCga-5' miRNA 3'pairing Seed	ACTAGC Imperfect			
24104 24127 5'-tcagagGATTCAGAATTACCAGCa-3' UTR 3'-gccggaCUAAGUGUU-GUGGUCga-5' miRNA 3'pairing Seed	TACCAGCA 7mer-A1			
26928 26949 5'-tgGCTTGATT-ATTGCACCAGaa-3' UTR 3'-gcCGGACUAAGUGUUGUGGUCga-5' miRNA 3'pairing Seed	CACCAG Offset 6mer			
27995 28016 5'-attgCTGATTCA-GCCACCAGag-3' UTR 3'-gccgGACUAAGUGUUGUGGUCga-5' miRNA 3'pairing Seed	CACCAG Offset 6mer			
28623 28649 5'-ttggaTGATGCTGGAAGATCACCAGCt-3' UTR 3'-gccggaCUAAG----UGUUGUGGUCga-5' miRNA 3'pairing Seed	CACCAGC 7mer-m8			
49886 49907 5'-accataGATGC-CAGCATCAGCa-3' UTR 3'-gccggaCUAAGUGUUGUGGUCga-5' miRNA 3'pairing Seed	ATCAGC Imperfect			
58577 58600 5'-atcaTTAATGTATTCACACCAGCc-3' UTR 3'-gccgGACUAAGU-GUUGUGGUCga-5' miRNA 3'pairing Seed	CACCAGC 7mer-m8			
60728 60751 5'-attCCTGGATTTGCCACACTGGCa-3' UTR 3'-gccGGA-CUAAGUGUUGUGGUCga-5' miRNA 3'pairing Seed	ACTGGC Imperfect			
60789 60813 5'-ttaCCTGGACCAGAGAACTAGCt-3' UTR 3'-gccGGACUAAG--UGUUGUGGUCga-5' miRNA 3'pairing Seed	ATCAGC Imperfect			
75958 75980 5'-ccaCCTGAGTTATTGCTCCAGCc-3' UTR 3'-gccGGACUAAGUGUUGUGGUCga-5' miRNA 3'pairing Seed	TCCAGC Imperfect			

2D Structure	Local AU	Position	Conservation	Predicted By
3545 5'-tttTTTAATTCATATGAGACACTAGCt-3' UTR : : : : : : : : : : : : 3'-gccGGACUAAAGUGU---UGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 ACTAGC Imperfect		☐	M
11280 5'-gaGGCAGATTCTG-AACACCAGat-3' UTR : : : : : : : : : : : : 3'-gcCGGACUAAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 CACCAG Offset 6mer		☐	M
11856 5'-accaTTGA-TGGTAGCATCAGCa-3' UTR : : : : : : : : : : : : 3'-gccgGACUAAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 ATCAGC Imperfect		☐	M
28734 5'-ttaCCTGATGAGCCATCTCACCAAGCc-3' UTR : : : : : : : : : : : : 3'-gccGGACUA---AGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 CACCAGC 7mer-m8		☐	M T
33768 5'-attCTTGATCTTACAGCACAAGCc-3' UTR : : : : : : : : : : : : 3'-gccGGACUA-AGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 ACAAGC Imperfect		☐	M
38996 5'-gaGATTGGTTCCACAAGAGCAGCAGCa-3' UTR : : : : : : : : : : : : 3'-gcCGGACUAAAGUGUU---GUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 AGCAGC Imperfect		☐	M
53754 5'-cccaCTGAGCCATCTCACCAAGCc-3' UTR : : : : : : : : : : : : 3'-gccgGACUAAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 CACCAGC 7mer-m8		☐	M T
57829 5'-aaatagaACTCAGGACCACCAGCc-3' UTR : : : : : : : : : : : : 3'-gccggacUAAAGUGUU-GUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 CACCAGC 7mer-m8		☐	M T
64477 5'-gtGACTCAAATACCAACACCAGCt-3' UTR : : : : : : : : : : : : 3'-gcCGGACUAAAGU-GUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 CACCAGC 7mer-m8		☐	M T
64556 5'-taaCTGGGTTTGCAACACTGGCc-3' UTR : : : : : : : : : : : : 3'-gccGGACUAAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 ACTGGC Imperfect		☐	M
64661 5'-ggcCCTG-CTGACTGCGCCAGCc-3' UTR : : : : : : : : : : : : 3'-gccGGACUAAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 GCCAGC Imperfect		☐	M
64934 5'-tcaaagcATTATC--CACCAGCc-3' UTR : : : : : : : : : : : : 3'-gccggacUAAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 CACCAGC 7mer-m8		☐	M T
68091 5'-tgtTCTAGTACATCTTCACCAGCt-3' UTR : : : : : : : : : : : : 3'-gccGGACUAAAGU-GUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	 CACCAGC 7mer-m8		☐	M T

2D Structure	Local AU	Position	Conservation	Predicted By
13492 5'-aatCCTCGATCTTACAGCACAAGC-3' UTR 13516 3'-gccGGA-<u>CUA-AG</u>UGUUGUGGUCGa-5' miRNA 3'pairing Seed	ACAAGC Imperfect			
22512 5'-tgtaccaACTTGCAATCCCACCAGCc-3' UTR 22537 3'-gccggacUAAAGUGUU---GUGGUCGa-5' miRNA 3'pairing Seed	CACCAGC 7mer-m8			
22942 5'-atcCTTGATCTTACAACACAAGCt-3' UTR 22965 3'-gccGGACUA-AGUGUUGUGGUCGa-5' miRNA 3'pairing Seed	ACAAGC Imperfect			
28764 5'-tctTCTGATTATCACCACCACCa-3' UTR 28786 3'-gccGGACUAAGUGUUGUGGUCGa-5' miRNA 3'pairing Seed	ACCACC Imperfect			
29394 5'-aaGCCAGT-TTTGAATCATCAGCt-3' UTR 29415 3'-gcCGGACUAAGUGUUGUGGUCGa-5' miRNA 3'pairing Seed	ATCAGC Imperfect			
36814 5'-actTCTGGTAAGGACCCACCAGCt-3' UTR 36837 3'-gccGGACUAAGUGU-UGUGGUCGa-5' miRNA 3'pairing Seed	CACCAGC 7mer-m8			
38926 5'-gcaagTGCTTCCTGGCATCAGCa-3' UTR 38948 3'-gccggACUAAGUGUUGUGGUCGa-5' miRNA 3'pairing Seed	ATCAGC Imperfect			
43422 5'-ggGCCTAAGGT-CAGCATCAGCc-3' UTR 43443 3'-gcCGGACUAAGUGUUGUGGUCGa-5' miRNA 3'pairing Seed	ATCAGC Imperfect			
48093 5'-tacaagtTTCACCTCCCACCAGCa-3' UTR 48116 3'-gccggacuAAGUG-UUGUGGUCGa-5' miRNA 3'pairing Seed	CACCAGCA 8mer			
50201 5'-agggtacacgCCTGTCACCAGCa-3' UTR 50223 3'-gccggacuaaGUGUUGUGGUCGa-5' miRNA 3'pairing Seed	CACCAGCA 8mer			
59937 5'-gtaagaGTTTGCCCCATCAGCt-3' UTR 59959 3'-gccggaCUAAGUGUUGUGGUCGa-5' miRNA 3'pairing Seed	ATCAGC Imperfect			
60584 5'-tgGCCATAAACCATGGTCTCACAGCa-3' UTR 60612 3'-gcCGGACUAAGUGUU-----GUGGUCGa-5' miRNA 3'pairing Seed	CACCAGCA 8mer			
64985 5'-actTCTGTATTTGTCAGGCACTAGCa-3' UTR 65010 3'-gccGGAC-<u>UAA</u>GU-GU-UGUGGUCGa-5' miRNA 3'pairing Seed	ACTAGC Imperfect			
67719 5'-aaGTTTGATTTTGTCCACTAGCt-3' UTR 67742 3'-gcCGGACUAAGUGU-UGUGGUCGa-5' miRNA 3'pairing Seed	ACTAGC Imperfect			
78297 5'-ggGTGTGATTCCTCAAGCACCATCa-3' UTR 78320 3'-gcCGGACUAAGUGUU-UGGUCGa-5' miRNA 3'pairing Seed	ACCATC Imperfect			

2D Structure	Local AU	Position	Conservation	Predicted By
15705 5'-gtGCCTG GCAAG ACAC ACTAGC c-3' UTR 3'-gcCGGAC UAAG UGUUG UGGUCG a-5' miRNA 3'pairing Seed 16 15 14 13 7 6 5 4 3 2			☐	M
20373 5'-tcagagG ATT CAGA ATTACCAGC a-3' UTR 3'-gccgga CUAAG UGUU GUGGUCG a-5' miRNA 3'pairing Seed 16 15 14 13 7 6 5 4 3 2			☐	M T
23197 5'-tgGCTTG ATT -ATTGC ACCAG a-3' UTR 3'-gcCGGAC UAAG UGUUG UGGUCG a-5' miRNA 3'pairing Seed 16 15 14 13 7 6 5 4 3 2			☐	M
24264 5'-attgCTG ATT CA-GCC ACCAG a-3' UTR 3'-gccgGAC UAAG UGUUG UGGUCG a-5' miRNA 3'pairing Seed 16 15 14 13 7 6 5 4 3 2			☐	M
24892 5'-ttggaTG ATG CTGGAAGATC ACCAGC t-3' UTR 3'-gccggAC UAAG ---UGUUG UGGUCG a-5' miRNA 3'pairing Seed 16 15 14 13 7 6 5 4 3 2			☐	M T
46155 5'-accataG ATGC -CAGC ATCAGC a-3' UTR 3'-gccgga CUAAG UGUUG UGGUCG a-5' miRNA 3'pairing Seed 16 15 14 13 7 6 5 4 3 2			☐	M
54846 5'-atcaTTA ATGT ATT CACACCAGC c-3' UTR 3'-gccgGAC UAAG -GUUG UGGUCG a-5' miRNA 3'pairing Seed 16 15 14 13 7 6 5 4 3 2			☐	M T
56997 5'-attCCTGG ATT TGCCAC ACTGGC a-3' UTR 3'-gccGGA CUAAG UGUUG UGGUCG a-5' miRNA 3'pairing Seed 16 15 14 13 7 6 5 4 3 2			☐	M
57058 5'-ttaCCTGG ACC AGAGAAC ATCAGC t-3' UTR 3'-gccGGAC UAAG --UGUUG UGGUCG a-5' miRNA 3'pairing Seed 16 15 14 13 7 6 5 4 3 2			☐	M
72227 5'-ccaCCTG AGT TATTGC TCCAGC c-3' UTR 3'-gccGGAC UAAG UGUUG UGGUCG a-5' miRNA 3'pairing Seed 16 15 14 13 7 6 5 4 3 2			☐	M
80533 5'-catCCTG GCT CAC-CC ACCAG g-3' UTR 3'-gccGGAC UAAG UGUUG UGGUCG a-5' miRNA 3'pairing Seed 16 15 14 13 7 6 5 4 3 2			☐	M

2D Structure	Local AU	Position	Conservation	Predicted By
12357 12379 5'-gtGCCTGGCAAGACACACTAGCc-3' UTR 3'-gCCGGACUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match	ACTAGC Imperfect		☐	M
17025 17048 5'-tcagagGATTAGAATTACCAGCa-3' UTR 3'-gccggaCUAAGUGUU-GUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed 7mer-A1	TACCAGCA 7mer-A1		☐	M T
19849 19870 5'-tgGCTTGATT-ATTGCACCAGaa-3' UTR 3'-gCCGGACUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Offset 6mer	CACCAG Offset 6mer		☐	M
20916 20937 5'-attgCTGATTCA-GCCACCAGAg-3' UTR 3'-gccgGACUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Offset 6mer	CACCAG Offset 6mer		☐	M
21544 21570 5'-ttggaTGATGCTGGAAGATCACCAGCt-3' UTR 3'-gccggACUAAG---UGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed 7mer-m8	CACCAGC 7mer-m8		☐	M T
42807 42828 5'-accataGATGC-CAGCATCAGCa-3' UTR 3'-gccggaCUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match	ATCAGC Imperfect		☐	M
51498 51521 5'-atcaTTAATGATTACACACCAGCc-3' UTR 3'-gccgGACUAAGU-GUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed 7mer-m8	CACCAGC 7mer-m8		☐	M T
53649 53672 5'-attCCTGGATTTGCCACACTGGCa-3' UTR 3'-gccGGA-CUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match	ACTGGC Imperfect		☐	M
53710 53734 5'-ttaCCTGGACCAGAGAAACATCAGCt-3' UTR 3'-gccGGACUAAG--UGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match	ATCAGC Imperfect		☐	M
68879 68901 5'-ccaCCTGAGTTATTGCTCCAGCc-3' UTR 3'-gccGGACUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match	TCCAGC Imperfect		☐	M

2D Structure	Local AU	Position	Conservation	Predicted By
6835 5'-tttTTTAATTCATATGAGACACTAGCt-3' UTR : : : : : : : : : : : : : 3'-gccGGACUAAGUGU---UGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	ACTAGC Imperfect		☐	M
14570 5'-gaGGCAGATTCTG-AACACCAGat-3' UTR : : : : : : : : : : : : : 3'-gcCGGACUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	CACCAG Offset 6mer		☐	M
15146 5'-accaTTGA-TGGTAGCATCAGCa-3' UTR : : : : : : : : : : : : : 3'-gccgGACUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	ATCAGC Imperfect		☐	M
32024 5'-ttaCCTGATGAGCCATCTCACCAAGCc-3' UTR : : : : : : : : : : : : : 3'-gccGGACUA---AGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	CACCAGC 7mer-m8		☐	M T
37058 5'-attCTTGATCTTACAGCACAAGCc-3' UTR : : : : : : : : : : : : : 3'-gccGGACUA-AGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	ACAAGC Imperfect		☐	M
42286 5'-gaGATTGGTTCACAAGAGCAGCAGCa-3' UTR : : : : : : : : : : : : : 3'-gcCGGACUAAGUGUU---GUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	AGCAGC Imperfect		☐	M
57044 5'-cccaCTGAGCCATCTCACCAAGCc-3' UTR : : : : : : : : : : : : : 3'-gccgGACUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	CACCAGC 7mer-m8		☐	M T
61119 5'-aaatagaACTCAGGACCACCAGCc-3' UTR : : : : : : : : : : : : : 3'-gccggacUAAGUGUU-GUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	CACCAGC 7mer-m8		☐	M T
67767 5'-gtGACTCAAATACCAACACCAGCt-3' UTR : : : : : : : : : : : : : 3'-gcCGGACUAAGU-GUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	CACCAGC 7mer-m8		☐	M T
67846 5'-taaCTGGGTTTGCAACACTGGCc-3' UTR : : : : : : : : : : : : : 3'-gccGGACUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	ACTGGC Imperfect		☐	M
67951 5'-ggcCCTG-CTGACTGCGCCAGCc-3' UTR : : : : : : : : : : : : : 3'-gccGGACUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	GCCAGC Imperfect		☐	M
68224 5'-tcaaagcATTATC--CACCAGCc-3' UTR : : : : : : : : : : : : : 3'-gccggacUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	CACCAGC 7mer-m8		☐	M T
71381 5'-tgtTCTAGTACATCTTCACCAGCt-3' UTR : : : : : : : : : : : : : 3'-gccGGACUAAGU-GUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed	CACCAGC 7mer-m8		☐	M T

2D Structure	Local AU	Position	Conservation	Predicted By
7903 5'-ctcCGTGATAGAGGCCATCAGC-3' UTR 3'-gccGGACUAAGUGUUGUGGUCa-5' miRNA 3'pairing Seed	ATCAGC Imperfect		☐	(M)
8982 5'-acGCCTGGGTCACTTCAACAGC-3' UTR 3'-gccGGACUAAGUGUUGUGGUCa-5' miRNA 3'pairing Seed	AACAGC Imperfect		☐	(M)
12831 5'-tgGGTTGCTTTC-ACACCAGCt-3' UTR 3'-gccGGACUAAGUGUUGUGGUCa-5' miRNA 3'pairing Seed	CACCAGC 7mer-m8		☐	(M) (T)
17826 5'-gtagCTCCTTAACACACCAGCg-3' UTR 3'-gccgGACUAAGUGUUGUGGUCa-5' miRNA 3'pairing Seed	CACCAGC 7mer-m8		☐	(M) (T)
21234 5'-ggcaagaATGTAC-ACACCAGCt-3' UTR 3'-gccggacUAAGUGUUGUGGUCa-5' miRNA 3'pairing Seed	CACCAGC 7mer-m8		☐	(M) (T)
23456 5'-ataggTTATTTGAAACCATCAGCa-3' UTR 3'-gccggACUAAGUGUU-GUGGUCa-5' miRNA 3'pairing Seed	ATCAGC Imperfect		☐	(M)
31862 5'-ttGTTTGTTTTACTTTCACCAGCa-3' UTR 3'-gccGGACUAAGUG---UUGGUCa-5' miRNA 3'pairing Seed	CACCAGCA 8mer		☐	(M) (T)
32511 5'-taGTTTGATTTGCATTTACCAGCt-3' UTR 3'-gccGGACUAA---GUGUUGUGGUCa-5' miRNA 3'pairing Seed	ACCAGC 6mer		☐	(M)
33365 5'-tgggacGTTACCACCGGCg-3' UTR 3'-gccggaCUAAGUGUUGUGGUCa-5' miRNA 3'pairing Seed	ACCGGC Imperfect		☐	(M)
39712 5'-gtaggTGCTCATCATACCAGCa-3' UTR 3'-gccggACUAAGUGUUGUGGUCa-5' miRNA 3'pairing Seed	TACCAGCA 7mer-A1		☐	(M) (T)
40263 5'-ttagTTCATT-ATCACACCAGCc-3' UTR 3'-gccgGACUAAGUGUUGUGGUCa-5' miRNA 3'pairing Seed	CACCAGC 7mer-m8		☐	(M) (T)
45336 5'-ttaCTTGCTCTCCAATACCAGCc-3' UTR 3'-gccGGACUAAGUGUU-GUGGUCa-5' miRNA 3'pairing Seed	CACCAGC 7mer-m8		☐	(M) (T)
51037 5'-agGTCTGCTT-AGGGCACCGGC-3' UTR 3'-gccGGACUAAGUGUUGUGGUCa-5' miRNA 3'pairing Seed	ACCGGC Imperfect		☐	(M)
56216 5'-aatCCTGAGTGAACAACCAGCa-3' UTR 3'-gccGGACU-AAGUGUUGUGGUCa-5' miRNA 3'pairing Seed	CACCAGCA 8mer		☐	(M) (T)
56381 5'-accacagcTAAGAGCACCAGCa-3' UTR 3'-gccggacuaAGUGUUGUGGUCa-5' miRNA 3'pairing Seed	CACCAGCA 8mer		☐	(M) (T)
63104 5'-gaGCATGGCTCAT--CATCAGCg-3' UTR 3'-gccGGACUAAGUGUUGUGGUCa-5' miRNA 3'pairing Seed	ATCAGC Imperfect		☐	(M)
71306 5'-taatcacAATCGCTACATCAGCt-3' UTR 3'-gccggacUAAGUGUUGUGGUCa-5' miRNA 3'pairing Seed	ATCAGC Imperfect		☐	(M)
73933 5'-ccaCCGCTTTAT-CCACCAGCc-3' UTR 3'-gccGGACUAAGUGUUGUGGUCa-5' miRNA 3'pairing Seed	CACCAGC 7mer-m8		☐	(M) (T)
76771 5'-atcTCTAGTCACTAGAAGTCAACCAGCa-3' UTR 3'-gccGGACUAAGUG---UU-GUGGUCa-5' miRNA 3'pairing Seed	CACCAGCA 8mer		☐	(M) (T)
80620 5'-cacaCT-AGTCACCACACCAGCc-3' UTR 3'-gccgGACUAAGUGUUGUGGUCa-5' miRNA 3'pairing Seed	CACCAGC 7mer-m8		☐	(M) (T)

2D Structure	Local AU	Position	Conservation	Predicted By
11691 5'-gaaagca cTTC ACAGATAC ACCAGC a-3' UTR 3'-gccggac uAAG UGU--UG UGGUCG a-5' miRNA 16151413 765432 3'pairing Seed			☐	M T
16315 5'-gacCCTG ACTT CCATC CCCAGC a-3' UTR 3'-gccGGAC UAAG UGUUG UGGUCG a-5' miRNA 16151413 765432 3'pairing Seed			☐	M
21251 5'-ttcTCTA ATCC ACCTC ACCAGC t-3' UTR 3'-gccGGAC UAAG UGUUG UGGUCG a-5' miRNA 16151413 765432 3'pairing Seed			☐	M T
24647 5'-gcaagt cTTT GAAAC ACCAGC c-3' UTR 3'-gccggac uAAG UGUUG UGGUCG a-5' miRNA 16151413 765432 3'pairing Seed			☐	M T
31830 5'-agaCTTG-- TAA AGC ACCAGC t-3' UTR 3'-gccGGAC UAAG UGUUG UGGUCG a-5' miRNA 16151413 765432 3'pairing Seed			☐	M T
39921 5'-acGACTG-- TG AGGTC ACCAGC a-3' UTR 3'-gcCGGAC UAAG UGUUG UGGUCG a-5' miRNA 16151413 765432 3'pairing Seed			☐	M T
42229 5'-ttGCTGG GATT ACAAACGC ATCAGC t-3' UTR 3'-gcCGGAC UAAG UGUU--G UGGUCG a-5' miRNA 16151413 765432 3'pairing Seed			☐	M
49606 5'-cctagac AGT AACAGC ACTAGC c-3' UTR 3'-gccggac UAAG UGUUG UGGUCG a-5' miRNA 16151413 765432 3'pairing Seed			☐	M
76699 5'-ctcgCTG AGCC ATCTC GCCAGC c-3' UTR 3'-gccgGAC UAAG UGUUG UGGUCG a-5' miRNA 16151413 765432 3'pairing Seed			☐	M
76934 5'-cccaCTG AGCC ATCTC ACCAGC c-3' UTR 3'-gccgGAC UAAG UGUUG UGGUCG a-5' miRNA 16151413 765432 3'pairing Seed			☐	M T

2D Structure	Local AU	Position	Conservation	Predicted By
708mer92 5'-gcccttcaaaggccCACCAGCa-3' UTR 3'-gccggacuaaguguUGGUCGa-5' miRNA 3'pairingSeed				M T
35327mer-m83553 5'-tcagTTCATTCA-GACCACCAGCt-3' UTR 3'-gccgGACUAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed				M T
11641Imperfect match11663 5'-ctcCGTGATAGAGGCCATCAGCc-3' UTR 3'-gccGGACUAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed				M
12720Imperfect match12742 5'-acGCCTGGGTCACTTCAAACAGCt-3' UTR 3'-gccGGACUAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed				M
165697mer-m816590 5'-tgGGTTGCTTTC-ACACCAGCt-3' UTR 3'-gccGGACUAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed				M T
215647mer-m821586 5'-gtagCTCCTTAACACACCAGCg-3' UTR 3'-gccgGACUAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed				M T
249727mer-m824993 5'-ggcaagaATGTAC-ACACCAGCt-3' UTR 3'-gccggacUAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed				M T
27194Imperfect match27217 5'-ataggTATTTGAAACCATCAGCa-3' UTR 3'-gccgGACUAAGUGUU-GUGGUCGa-5' miRNA 3'pairingSeed				M
356008mer35625 5'-ttGTTGTTTACTTTCTCACCAGCA-3' UTR 3'-gccGGACUAAGUG---UUGUGGUCGa-5' miRNA 3'pairingSeed				M T
362496mer36274 5'-taGTTTGATTTTGCATTTTACCAGCt-3' UTR 3'-gccGGACUAA---GUGUUGUGGUCGa-5' miRNA 3'pairingSeed				M
37103Imperfect match37125 5'-tgggacGGTTACCATCACCGGCg-3' UTR 3'-gccggaCUAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed				M
434507mer-A143472 5'-gtaggTGCTCATCATACCAGCA-3' UTR 3'-gccggaCUAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed				M T
440017mer-m844022 5'-ttagTTCATT-ATCACACCAGCc-3' UTR 3'-gccgGACUAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed				M T
490747mer-m849097 5'-ttaCTTGGTCTCCAATACCAGCc-3' UTR 3'-gccGGACUAAGUGUU-GUGGUCGa-5' miRNA 3'pairingSeed				M T
54775Imperfect match54796 5'-agGTCTGCTT-AGGGCACCGGCc-3' UTR 3'-gccGGACUAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed				M
599548mer59977 5'-aatCCTGAGTGAACAACACCAGCa-3' UTR 3'-gccGGACU-AAUGUGUGGUCGa-5' miRNA 3'pairingSeed				M T
601198mer60141 5'-accacagctTAAGAGCACCAGCa-3' UTR 3'-gccggacuaAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed				M T
66842Imperfect match66862 5'-gaGCATGGCTCAT--CATCAGCg-3' UTR 3'-gccGGACUAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed				M
75044Imperfect match75066 5'-taatcacAATCGCTACATCAGCt-3' UTR 3'-gccggacUAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed				M
776717mer-m877692 5'-ccaCCGTCTTTAT-CCACCAGCc-3' UTR 3'-gccGGACUAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed				M T
805098mer80536 5'-atcTCTCAGTCACTAGAAGTCACCAGCa-3' UTR 3'-gccGGACUAAGUG---UU-GUGGUCGa-5' miRNA 3'pairingSeed				M T
843587mer-m884379 5'-cacacT-AGTCACACACCAGCc-3' UTR 3'-gccgGACUAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed				M T
94001Offset6mer94023 5'-gtcgaTAGTGTCTCAtACCAGat-3' UTR 3'-gccggaCUAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed				M

2D Structure	Local AU	Position	Conservation	Predicted By
102124 Imperfect match 5'-cctaCGGATTCATGGTACCAAGTa-3' UTR 3'-gccgGACUAAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed	ACCAAGT Imperfect			M
72517273 Imperfect match 5'-tcaggTCATTAATTACATCAGCa-3' UTR 3'-gccggACUAAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed	ATCAGC Imperfect			M
1083510859 7mer-A1 5'-tgGCATTGTATTTTGTAGTACCAAGCa-3' UTR 3'-gcCG-GAC-UAAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed	TACCAGCA 7mer-A1			M T
1200712027 8mer 5'-aaGCTTGCAATC-C--CACCAGCa-3' UTR 3'-gcCGGAC-UAAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed	CACCAGCA 8mer			M T
1242912452 Imperfect match 5'-attCTTGATCTTATAGCAACAGCc-3' UTR 3'-gccGGACUA-AGUGUUGUGGUCGa-5' miRNA 3'pairingSeed	ACAAGC Imperfect			M
1747517497 8mer 5'-ataCTAGTTTTATTTCCACCAGCa-3' UTR 3'-gccGGACUAAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed	CACCAGCA 8mer			M T
2218622210 8mer 5'-aaaagaaATATAAAGTCACCAGCa-3' UTR 3'-gccggacUAAAGUGUU--GUUGGUCGa-5' miRNA 3'pairingSeed	CACCAGCA 8mer			M T
3129931319 8mer 5'-aaGCTTGCAATC-C--CACCAGCa-3' UTR 3'-gcCGGAC-UAAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed	CACCAGCA 8mer			M T
4395043971 Imperfect match 5'-atagCTCAATCAC-ACACTAGCc-3' UTR 3'-gccgGACUAAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed	ACTAGC Imperfect			M
4937849400 Imperfect match 5'-ggGGTTGGGTCACATCTCCAGCt-3' UTR 3'-gcCGGACUAAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed	TCCAGC Imperfect			M
4995649979 7mer-m8 5'-actTCT-ATTAAATTATCACCAGCt-3' UTR 3'-gccGGACUAAGU--GUUGUGGUCGa-5' miRNA 3'pairingSeed	CACCAGC 7mer-m8			M T
6623566259 7mer-m8 5'-ctgtagttTTGAAAATACACCAGCt-3' UTR 3'-gccggacuAAGUGU--UGUGGUCGa-5' miRNA 3'pairingSeed	CACCAGC 7mer-m8			M T
7059270614 Imperfect match 5'-ctaCCTGTTTGTAGCCCCAGCc-3' UTR 3'-gccGGACUAAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed	CCCCAGC Imperfect			M
7103371057 8mer 5'-tgtTCTGAGCTACTGTGCACCAGCa-3' UTR 3'-gccGGACUAAAGUG--UUGUGGUCGa-5' miRNA 3'pairingSeed	CACCAGCA 8mer			M T
7522875250 Imperfect match 5'-tactggGACCCACATCCTAGCt-3' UTR 3'-gccggaCUAAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed	ACTAGC Imperfect			M
8344683468 7mer-m8 5'-gtaggTGAAAACCATCACCAAGCt-3' UTR 3'-gccggACUAAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed	CACCAGC 7mer-m8			M T
9574495764 8mer 5'-ctGCCTGTGTC-C-ACACCAGCa-3' UTR 3'-gccGGGACUAAAGUGUUGUGGUCGa-5' miRNA 3'pairingSeed	CACCAGCA 8mer			M T

2D Structure	Local AU	Position	Conservation	Predicted By
9321 5'-cttgCTGTTTCTACTGACTCCAGCt-3' UTR 9344 3'-gccgGACUAAGUG-UUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match	TCCAGC Imperfect		☐	M
30047 5'-gtGTTTCATTTCCAGCACCAACc-3' UTR 30069 3'-gcCGGACUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match	ACCAAC Imperfect		☐	M
32091 5'-ctataTTATTACAACACCACaa-3' UTR 32113 3'-gccggACUAAGUGUUGUGGUCga-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match	ACCACA Imperfect		☐	M
37099 5'-ggTCATGCTT-GTAATACCAGCa-3' UTR 37120 3'-gccCGGACUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed 7mer-A1	TACCAGCA 7mer-A1		☐	M T
50073 5'-tgacaccATTGCAC-ACACTAGCa-3' UTR 50095 3'-gccggacUAA-GUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match	ACTAGC Imperfect		☐	M
58838 5'-ttGCTTTCTTTAT-CCACCAGCt-3' UTR 58860 3'-gcCGGACUA-AGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed 7mer-m8	CACCAGC 7mer-m8		☐	M T
67470 5'-caGCTTGATCCACTTCACAAATATACCAGCa-3' UTR 67500 3'-gcCGGACU-----AAGUGU---UGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed 7mer-A1	TACCAGCA 7mer-A1		☐	M T
72421 5'-aaGCTTGATCTTACAGCACAAGCc-3' UTR 72444 3'-gcCGGACUA-AGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match	ACAAGC Imperfect		☐	M
78229 5'-gtgaacacaTCAGAACATCAGCg-3' UTR 78251 3'-gccggacuaAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match	ATCAGC Imperfect		☐	M
85173 5'-tccaCTGTTTTACAACACTAGAc-3' UTR 85197 3'-gccgGACU--AAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3'pairing Seed Imperfect match	ACTAGA Imperfect		☐	M

2D Structure	Local AU	Position	Conservation	Predicted By
1532 5'-aaaagTGTTTCAAATCACCAGat-3' UTR 3'-gccggACUAAGUGUU-GUGGUCga-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
12371 5'-ccacaacATAGTCAGCACCAGCa-3' UTR 3'-gccggacUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M T
19041 5'-caagTTGACTCACAAAACCAGCt-3' UTR 3'-gccgGACUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
19371 5'-ggGCTTGGGTCAC TTC TCCAGCc-3' UTR 3'-gcCGGACUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
19858 5'-acagCTGATTCTTCAGC CCCAGCt-3' UTR 3'-gccgGACUAAG-UGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
23326 5'-ttggtccATTTA-AACATCAGCa-3' UTR 3'-gccggacUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
25051 5'-gtaCCTGAAGTCTCGCAACCCAGCt-3' UTR 3'-gccGGACU--A-AGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
25695 5'-gcaCCTG---TGTGTCACCAGCa-3' UTR 3'-gccGGACUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M T
31310 5'-ttggtccATTTA-AACATCAGCa-3' UTR 3'-gccggacUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
40986 5'-acttagcATTC-C--CACCAGCa-3' UTR 3'-gccggacUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M T
46215 5'-agGCAT-ATTCA-AGC ACTAGCa-3' UTR 3'-gcCGGACUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M
50201 5'-cccaCTGAGCCATCTCACCAGCc-3' UTR 3'-gccgGACUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M T
73667 5'-agGCAT-ATTCA-AGC ACTAGCa-3' UTR 3'-gcCGGACUAAGUGUUGUGGUCGa-5' miRNA 16 15 14 13 7 6 5 4 3 2 3' pairing Seed			☐	M

2D Structure	Local AU	Position	Conservation	Predicted By
12468 5'-agcCCTGCATCAT--CACCAGCt-3' UTR 3'-gccGGACUAAUGUGUUGUGGUCGa-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed			☐	M T
16367 5'-cttCCTGATTCTAAACACCAGCg-3' UTR 3'-gccGGACUAAUGUGUUGUGGUCGa-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed			☐	M T
16477 5'-agtCATAAATT-TGACACCAGCc-3' UTR 3'-gccGGACUAAUGUGUUGUGGUCGa-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed			☐	M T
19867 5'-atGTCTGAGTAACCAGACCAGCa-3' UTR 3'-gcCGGACUAAUGUGUUGUGGUCGa-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed			☐	M T
27379 5'-gttgacGATTGCAGTTCCTCACCAGCa-3' UTR 3'-gccggaCUAA-GU--GUUGUGGUCGa-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed			☐	M T
39797 5'-taGCCTG--TCGCAGTTCACTAGCa-3' UTR 3'-gcCGGACUAAUGUU--GUGGUCGa-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed Imperfect match			☐	M
43671 5'-cctgCTGAGCCATGTCCGCCAGCc-3' UTR 3'-gccgGACUAAUGUGUUGUGGUCGa-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed Imperfect match			☐	M
58401 5'-caGTCTCACTCTTACAGACACACCAGCa-3' UTR 3'-gcCGGACU---AAGUGU-UGUGGUCGa-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed			☐	M T
63574 5'-atGTTTGTTTCACAGGCACCAGat-3' UTR 3'-gcCGGACUAA-GUGU-UGUGGUCGa-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed Offset 6mer			☐	M
64566 5'-ccaCGTGgTCCTGAGGGCACCAGCt-3' UTR 3'-gccGGACUA--AGUGUUGUGGUCGa-5' miRNA 16151413 7 6 5 4 3 2 3'pairing Seed			☐	M T

[illegible]