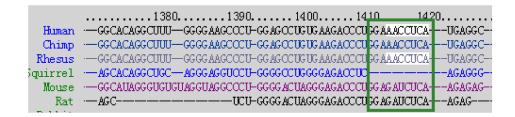
Figure S1. The binding site with the highest score between miR-377-5p and Arc 3'UTR predicted by the website.



Are 3'UTR 5'-GCTGCCGCCCAGGGCAACCGGCC-3'

Mmu-mir-377-5p 3'-CTTAAGTGGTTCCCGTTGGAGA-5'

	Pro	edicted consequential pairing of target rec miRNA (bottom)	jion (top) and	Site type	Context++ score	Context++ score percentile	Weighted context++ score	Conserved branch length	Рст
Position 436-442 of ARC 3' UTR	5'	CAGAGAUGCUGAGGG <mark>AACCUCAA</mark>		7mer-	-0.03	34	-0.03	0	N/A
mmu-miR-377-5p	3'	CUUAAGUGGUUCCCG <mark>UUGGAG</mark> A		A1					
Position 436-442 of ARC 3' UTR	5'	CAGAGAUGCUGAGGGAACCUCAA		7mer-	-0.03	20	-0.01	0	N/A
mmu-miR-672-5p	3'	AGUGUGUGAUGUGGUUGGAGU		A1					
Position 1273-1279 of ARC 3' UTR	5'	UGAUTUGOCCAGCUGAAACCUCAG	III	7mer-	-0.08	57	-0.08	0.113	N/A
mmu-miR-377-5p	3'	CUUAAGUGGUUOCOG <mark>uuggag</mark> a		Al					

Poorly conserved

	Pre	edicted consequential pairing of target region (to miRNA (bottom)	top) and	Site type	Context++ score	Context++ score percentile	Weighted context++ score	Conserved branch length	Рст
Position 1235-1241 of ARC 3' UTR rno-miR-377-5p	5' 3'	UGAUTUGOCCAGCUGGAACCUCAU CUUAAGUGGUUCCCGUUGGAGA		7mer- A1	-0.07	54	-0.07	0.113	N/A
Position 1235-1241 of ARC 3' UTR rno-miR-672-5p	5' 3'	UG AUTUGCOCAGCUGGAACCUCAU AGUGUGUGUCAUG UGGUGGAGU	П	7mer- A1	-0.04	44	-0.04	0.113	N/A

Poorly conserved

	Predicted consequential pairing of target region (top) and miRNA (bottom)			Site type	Context++ score	Context++ score percentile	Weighted context++ score	Conserved branch length	P _{CT}
Position 137-143 of DLG4 3' UTR mo-miR-194-3p	5' 3'	UCUAACUGGAUCGAGCOCACUGG UCUAUUGUCGUGGGGUGACC	ШШ	7mer- m8	-0.11	71	-0.11	0	N/A
Position 295-301 of DLG4 3' UTR mo-miR-194-3p	5' 3'	OCAUGC ACACAUAG ACCCACUGG UCUAUUGUCGUCG-GGGUG ACC	ШШ	7mer- m8	-0.12	73	-0.12	0.091	N/A