

Table S1 Information of novel miRNAs

Candidate Name	Mature Sequence	Perfect match in miRbase
chi-miR-203	gugaaauguuuaggaccacuag	hsa-miR-203a-3p, mmu-miR-203-3p
novel_71	aggcaagaugcuggcagcagcugu	
novel_54	cugugcgugugacagcggcuga	hsa-miR-210-3p, mmu-miR-210-3p
novel_587	cuaagccagggauugugggu	
novel_98	uugaacuguaagaaccacugg	
novel_704	auaucugugguuucugcac	
novel_100	uguaacagcaacuccauguggaa	
novel_494	uuuguucguucggcucgcguga	hsa-miR-375-3p, mmu-miR-375-3p
novel_120	uagcagcgggaaacaguacugcag	mmu-miR-503-5p
novel_24	ugagguaguagguuguauaguu	hsa-let-7a-5p, mmu-let-7a-5p, bta-let-7a-5p, oar-let-7a
novel_130	uaugugggacgguaaaccgcuu	mmu-miR-299a-3p
novel_697	gaggguuuggguuuggucguggga	
novel_131	uauugcacucgucggccucc	hsa-miR-92b-3p, hsa-miR-92b-3p, bta-miR-92b
novel_148	auagccaguugggaagaugc	bta-miR-7857-5p
novel_176	agcugguguugugaauccagccgu	
novel_463	ugccaagcccacgucaaagg	bta-miR-6123
novel_145	uagguaguuucauguuguuggg	hsa-miR-196a-5p, mmu-miR-196a-5p, bta-miR-196a
novel_586	aggaagucggagcugugcuuu	
novel_157	aaaauccgaacgaacuuuuugg	
novel_182	uaacagucuacagccauggucg	hsa-miR-132-3p, mmu-miR-132-3p, bta-miR-132
novel_566	ucucugucucaauccuguagu	
novel_234	agaaaccuggaugaacuuiuugg	bta-miR-2285r
novel_732	uagaauccacuccugacacca	
novel_218	agcugguguugugaauccagggcg	hsa-miR-138-5p, mmu-miR-138-5p, bta-miR-138
novel_206	aguacuggagcuccaaucaug	
novel_791	auuauaggaauugaaccu	
novel_258	aggccaaagcaaagcagcuguc	
novel_498	agaaaccgaacaaacuuiuuggc	
novel_421	cucacacacaccuccuccugcagu	
novel_306	uaugugggacgguaaaccau	
novel_244	gaaaguguaaggcaaggucugg	
novel_248	aaaggauucugcugucgguccacu	hsa-miR-541-5p, oar-miR-541-5p
novel_241	aacacccggacgaacuuiuugg	
novel_286	aagaacccgagcgaacuuiuugg	
novel_237	agaguugagucuggacgucccg	hsa-miR-219a-1-3p, bta-miR-219
novel_673	aaucauacaaggacaauuuuuu	oar-miR-539-3p
novel_574	ucacucagucgugccgaauuacu	
novel_599	uaaucucagcuggcaacugug	gga-miR-216a

Table S2 Primer sequences for miRNA and mRNA RT-qPCR and vector construction

miRNA Name	Forward primer sequence (5' to 3')	Reverse primer sequence (5' to 3')	RT stem-loop primer sequence (5' to 3')
chi-miR-143-3p	CCTGAGATGAAGCACTGT	GTCCGAGGTATTCGCACTGG	GTCGTATCCAGTGCAGGGTCCGAGGTA TTCGCACTGGATACGACCGAGCT
chi-miR-203	GGGGTGAAATGTTTAGGAC	CAGTGCGTGTCGTGGAGT	GTCGTATCCAGTGCAGGGTCCGAGGTA TTCGCACTGGATACGACCGCAATA
chi-miR-92a-3p	TGCCTATCGCACTTGTCC	CGCAGGGTCCGAGGTATTC	GTCGTATCCAGTGCAGGGTCCGAGGTA TTCGCACTGGATACGACACAGGC
chi-miR-200a	TAACACTGTCTGGTAACGATGC	GCAGGGTCCGAGGTATTCGCACT	GTCGTATCCAGTGCAGGGTCCGAGGTA TTCGCACTGGATACGACCATCGT
U6	GCTTCGGCAGCACATATACTAAAAT	CGCTTCACGAATTTGCGTGTCAT	CGCTTCACGAATTTGCGTGTCAT
<i>Itga6</i> -WT-UTR	AGCTTTGTTTAAACGCCCTTAAGAT ATCAGTTGTGC	GCTCTAGATATCAAATGCAAACAGA CCAG	
<i>Itga6</i> -MUT-UTR	AAATGCAGGAGGAAGTCAAGTCAC TGGTCTGTTTGC	GACTTCCTCCTGCATTTTAAACAAC TATAAACACCACTACATT	
<i>Itga6</i>	TCCATTACATTGCGTTTG	TCCACTATGATTGGCTCT	
<i>Ki67</i>	AAGAGGCAGCCCAAGTCAT	TTCTTAGCCTACTCCGGCCT	