

Figure S1. Flow chart of the screening of candidate circRNAs. AF, atrial fibrillation; circRNA/circ, circular RNA; FDR, false discovery rate.

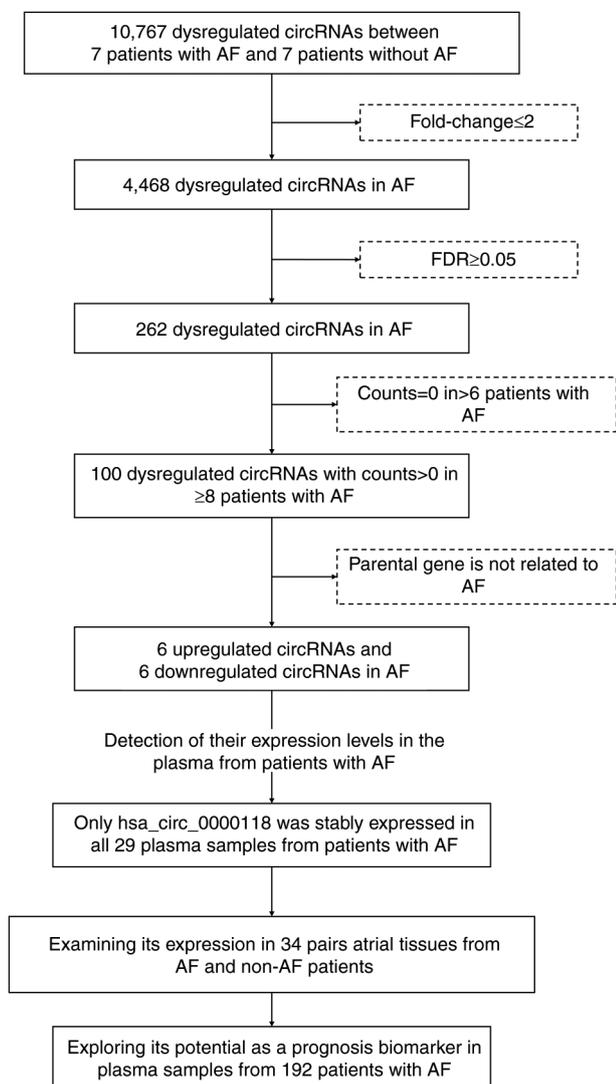


Figure S2. Diagram of dual-luciferase reporter gene experiment vector sequence of mmu_circ_0010297-WT and mmu_circ_0010297-MUT. circ, circular RNA; miR, microRNA; MUT, mutant; WT, wild-type.

MUT-mmu_circ_0010297

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GGAAAGGCCATTCCACTAACATATTGCCATCGACTCTAGCGACGGT-----CCATAGTGGATGCTTTGGATACC
|||||
GGAAAGGCCATTCCACTAACATATTCG----GAAGCTC-ACAGATGGGTGCCACCATAGTGGATGCTTTGGATACC
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WT-mmu_circ_0010297

Figure S3. Sequence alignment of hsa_circ_0000118 and mmu_circ_0010297. The query is the sequence of hsa_circ_0000118 and the Sbjct is the sequence of mmu_circ_0010297. circ, circular RNA; NW, Needleman-Wunsch; Sbjct, subject.

mmu_circ_0010297

Sequence ID: Query_57029 Length: 553 Number of Matches: 1

Range 1: 1 to 553

NW score	Identities	Gaps	Strand	Frame
750	484/554 (87%)	2/554 (0%)	Plus/Plus	
Query 1	GG AAGAGGAAGA ACGTCTGAGAAAT AAAATTCGAGCTGATCATGAGAAGGCCTTGG AAGA			60
Sbjct 1	GG AAGAAGAAGAGCGTCTGAGAAATAAGATTAGAGCTGACCATGAGAAAGCCCTGGAAGA			60
Query 61	AGCAAAAGAAAAATTAAGAAAGTCAAGAGAGGAAATTCGAGCAGAAATTCAGACAGAGAA			120
Sbjct 61	AGCAAAAGAAAAATTAAGAAAGTCAAGAGAGGAAATCCGTCAGAAATTCAGACAGAGAA			120
Query 121	AAATAAGGTAGTCCAAGAAATGAAGATAAAAGAGAACAAGCCACTGCCACCAGTCCCTAT			180
Sbjct 121	AAACAAAGTAGCCCAAGCAATGAAGACAAAAGAGACCAGGGTACTGCCGCCTGTCCCTGT			180
Query 181	TCCCAACCTTGTAGGAATACGTGGTGGAGACCCAGAAGATAATGACAT-AAGAGAGAAAA			239
Sbjct 181	CCCACAACGTGTAGGGGTCAGTGGTGGGGATCCAGAAGACATGGAGATCAAGA-AGAAAA			239
Query 240	GGGAAAAAATTAAGAGATGATGAAACATGCTTGGGATAACTATAGGACATATGGGTGGG			299
Sbjct 240	GAGACAAAATTAAGAGATGATGAAACATGCCTGGGATAATTACAGAACATACGGATGGG			299
Query 300	GACATAATGAACTCAGACCTATTGCAAGGAAAGGACACTCCCCTAACATATTTGGAAGTT			359
Sbjct 300	GACATAATGAACTAAGGCCTATTGCAAGGAAAGGCCATTCCACTAACATATTCGGAAGCT			359
Query 360	CACAAATGGGTGCTACCATAGTAGATGCTTTGGATACCCTTTATATCATGGGACTTCATG			419
Sbjct 360	CACAGATGGGTGCCACCATAGTGGATGCTTTGGATACCCTTTATATCATGGGGCTTCATG			419
Query 420	ATGAATTCCTAGATGGGCAAAGATGGATTGAAGACAACCTTGATTCAGTGTGAATTCAG			479
Sbjct 420	ATGAATTCATGGATGGGCAAAGATGGATTGAAGAAAACCTTGATTCAGTGTGAATTCAG			479
Query 480	AGGTGTCTGTGTTTGAAGTCAACATTCGATTTATTGGAGGCCTACTTGCAGCATATTACC			539
Sbjct 480	AAGTGTCTGTCTTTGAAGTTAACATTCGCTTTATTGGAGGGCTCCTCGCTGCATATTACC			539
Query 540	TATCAGGAGAGGAG 553			
Sbjct 540	TGTCAGGAGAGGAA 553			

Figure S4. MAN1A2 expression was determined by RT-qPCR when mmu_circular RNA_0010297 was knocked down using si3 or si5 (one-way ANOVA and the Sidak method). MAN1A2, mannosidase α class 1A member 2; NC, negative control; si, small interfering RNA, RT-qPCR, reverse transcription-quantitative polymerase chain reaction.

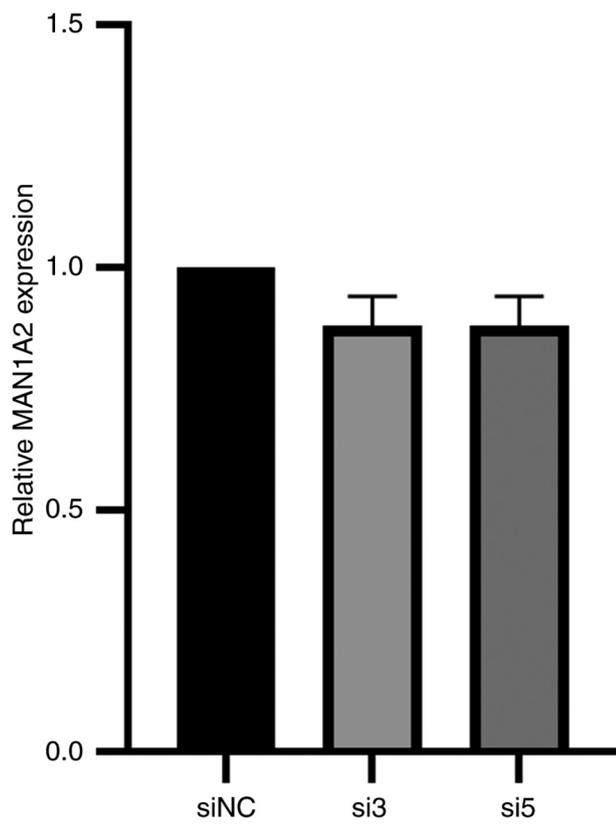


Figure S5. Transfection efficiency of miR-34a-5p mimics in mouse cardiac fibroblasts. miR, microRNA; NC, negative control.

miR-34a-5p in mouse cardiac fibroblasts cell line

