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Supplemental Information

**circFGFR4 Promotes Differentiation of Myoblasts
via Binding miR-107 to Relieve Its Inhibition
of Wnt3a**

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Supplementary information

Table S1 Stem-loop primers for reverse-transcribed miRNAs

miRNA ID	stem-loop primer
bta-miR-378	gtcgtatccagtcaggggtccgaggtattcgactggatacgacGCCTTC
bta-miR-107	gtcgtatccagtcaggggtccgaggtattcgactggatacgacGATAGC
bta-miR-25	gtcgtatccagtcaggggtccgaggtattcgactggatacgacTCAGAC
bta-miR-101	gtcgtatccagtcaggggtccgaggtattcgactggatacgacTTCAGT
bta-miR-128	gtcgtatccagtcaggggtccgaggtattcgactggatacgacAAAGAG
bta-miR-140	gtcgtatccagtcaggggtccgaggtattcgactggatacgacTCCGTG
bta-miR-7f	gtcgtatccagtcaggggtccgaggtattcgactggatacgacAACTAT
bta-miR-499	gtcgtatccagtcaggggtccgaggtattcgactggatacgacAAACAT
bta-miR-423-5p	gtcgtatccagtcaggggtccgaggtattcgactggatacgacAAAGTC

Table S2 Primers for qPCR

miRNA ID	Forward primer 5'→3'	Reverse primer 5'→3'
Bta-miR-107	ggAGCAGCATTGTACAGGGCTATC	GCAGGGTCCGAGGTATTC
bta-miR-378	gcgcACTGGACTTGGAGTC	GCAGGGTCCGAGGTATTC
bta-miR-25	gcgcgcCATTGCACTTGTCTC	GCAGGGTCCGAGGTATTC
bta-miR-101	gcgcgcgcTACAGTACTGTGATA	GCAGGGTCCGAGGTATTC
bta-miR-128	gcgcTCACAGTGAACCGGT	GCAGGGTCCGAGGTATTC
bta-miR-140	gcgcgcTACCACAGGGTAGAA	GCAGGGTCCGAGGTATTC
bta-miR-7f	gcgcgcacaTGAGGTAGTAGATTG	GCAGGGTCCGAGGTATTC
bta-miR-499	gcgcgcTTAAGACTTGCAGTG	GCAGGGTCCGAGGTATTC
bta-miR-423-5p	atttTGAGGGGCAGAGAGC	GCAGGGTCCGAGGTATTC
U6	GCTTCGGCAGCACATATACTAAAAT	CGCTTCACGAATTTGCGTGTGCAT
Wnt3a	GCAGAGGGCATCAAATC	CTGTTGTTGATGGTGGTG
β-actin	CATCCTGACCCTCAAGTA	CTCGTTGTAGAAGGTGTG
MyHC	TGCTCATCTACCAAGTTCC	CACTCTTCACTCTCATGGACC
MyoG	CAAATCCACTCCCTGAAA	GCATAGGAAGAGATGAACA
MyoD	ACGGCATGATGGACTACAGC	AGGCAGTCGAGGCTCGACA
BCL-2	ATGACCGAGTACCTGAAC	CATACAGCTCCACAAAGG
Caspase9	TGGTGGTCATCCTGTCTC	CATCCATCTGTGCCATAAAC
Caspase3	AGAACTGGACTGTGGTATT	TCTGCCTCAACTGGTATT
P53	CACAGCCAAAGAAGAAAC	CTCTCGGAACATCTCATAG

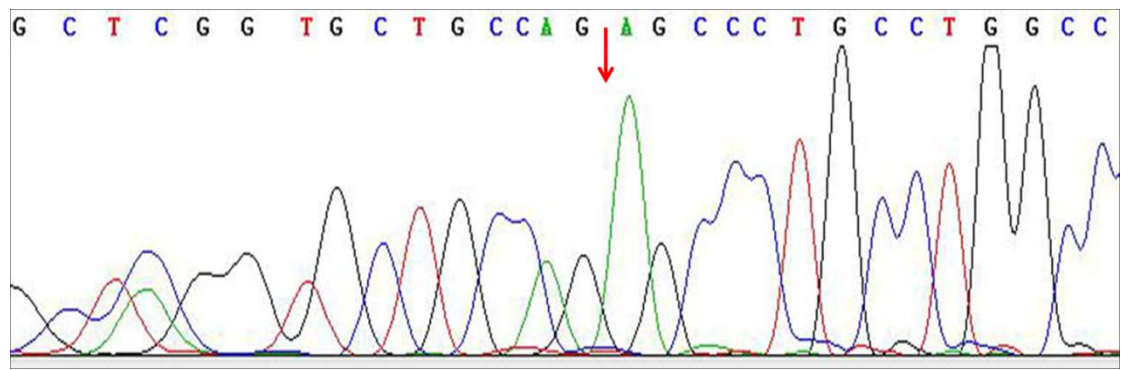
PCNA	TCCAGAACAAGAGTATAGC	TACAACAGCATCTCCAAT
CyclinD1	CCGTCCATGCGGAAGATC	CAGGAAGCGGTCCAGGTAG
CircFGFR4	GGCAACTCCATCGGCCTTTC	CCGCAGCATAACCGCAC

Table S3 Primers for vector construction

Name	Primer sequence 5'→3'
pcDNA-circFGFR4-F	CCCA <u>AAGCTTTT</u> TACCCCCAGCAAGCACCT
pcDNA-circFGFR4-R	GGGGT <u>ACCACGT</u> GCCCATTCAAGGGGC
Psi-CHECK-circFGFR4-W-F	CCG <u>CTCGAG</u> ACGACTTCTTTGTCAGAAAGAC
Psi-CHECK-circFGFR4-W-R	ATAAGAAT <u>GCGGCCG</u> CATTCTCTAAGTCAGGATCCA
Psi-CHECK-circFGFR4-Mut-F	GCCTGTGCGGTTATCATACGGGCGGGCTGAGC
Psi-CHECK-circFGFR4-Mut-R	GCTCAGCCCGCCCGTATGATAACCGCACAGGC
Psi-CHECK-Wnt3a-3'UTR-W-F	CCG <u>CTCGAG</u> GGCTTACCTGGTGTGTTCG
Psi-CHECK-Wnt3a-3'UTR-W-R	ATAAGAAT <u>GCGGCCG</u> CTCTGTTTGTCTAGCTCCTGTG
Psi-CHECK-Wnt3a-3'UTR-Mut-F	ATTTTATTTCCACCGATGCTATATCCACCAT
Psi-CHECK-Wnt3a-3'UTR-Mut-R	ATGGTGGATATAGCATCGGTGGAAATAAAAT

Notes: The nucleotides with underline is the restriction enzyme cutting site.

Figure S1



Text S1: CircFGFR4 sequence

circFGFR4>AGCCCTGCCTGGCCCCAGCCCGGAGCAGCAAGAGCAGGAGT
TGACGGTGGCCCTTGGGCAGCCTGTGCGGTTATGCTGCGGGCGGGCTGAG
CGCAGTGGCCACTGGTACAAGGAGGGCAGTCGCCTGACACCTGCTGGCCG
GGTACGAGGCTGGAGAGGCCGCTTGGAGATTGCCAGCTTCCTACCCGAGG
ATGCTGGCCAGTACCTCTGCCTATCACGAGGCTCCTTGCTTCTGCACAACG
TCACCTTGGTTGTGGACGACTCCATGACCTCCAGCAATGGCGACGAGGAC
CCCAAGATCCACAGGGGCCCCTTGAATGGGCACGTTTACCCCCAGCAAGC
ACCCTACTGGACGCACCCCCAGCGCATGGAGAAGAACTGCATGCTGTGC
CTGCCGGGAACACCGTCAAGTTCCGCTGTCCAGCTGCAGGCAACCCCATG
CCCACCATCCGCTGGCTCAAGGATGGACAGGACTTCCACGGGGAGCATCG
CATTGGAGGCATTCGGCTGCGCCACCAGCACTGGAGCCTGGTGATGGAAA
GCGTGGTGCCCTCTGACCGTGGCACTTACACCTGCCTCGTGGAGAATTCTT
TGGGCAGCATTGCTATAGCTACCTGCTGGACGTGCTGGAGCGGTCCCCGC
ACCGGCCCATCCTTCAGGCAGGGCTCCCAGCCAACACCACGGCTGTGGTG
GGCAGTGACGTGGAAGTCTGCTCTGCAAGGTGTACAGCGACGCCAGCCCCA
CATCCAGTGGCTGAAGCACATCGTCATCAACGGCAGCAGCTTCGGTGCCG
ACGGCTTCCCCTATGTGCAAGTCTTAAAGACAGCGGACATCAATAGCTCAG
AGGTGGAGGTCTTGTACCTTCGGAATGTATCTGCTGAGGATGCAGGCGAGT
ACACCTGCCTGGCGGGCAACTCCATCGGCCTTTCCTACCAGTCGGCCTGGC
TCACGGTGCTGCCAG