

Supplementary

Table S1. The protein-coding potential.

#ID	peptide_length	Fickett_score	pI	ORF_integrity	cod-ing_probability	label
LncA2B1	46	0.3262	9.0211	1	0.0158	noncoding
Linc-MD1	99	0.3399	10.1044	-1	0.1648	noncoding
HPRT1	219	0.4637	6.2108	1	0.9997	coding

Table S2. siRNAs sequences for RNA knockdown.

Fragment name	Sequences/ (5'→3')
si-lncA2B1	CAACATTCCATGACATGAA
si-HNRNPA2B1	GAGGGATCCTGCAAGCAAA
si-DHX9	GGACCTCAAGAATGAGTTA

Table S3. Primers for PCR.

Genes	Primer sequences/ (5'→3')	Product length
TCONS_00048554 (lncA2B1-1)	F: TGTGGCTACCTAATTTGCTTGT R: ACTTGCAGAAAAGTCCCATAGG	92 bp
TCONS_00048554 (lncA2B1-2)	F: TGTGACTTGTTTGCCGGTA R: TCTTCATACTGGCACCTCCTC	84 bp
TCONS_00070803	F: GAGGCAGGACAACCCATCTT R: GGGACAGTATGAGGTAGGGGAG	136 bp
TCONS_00024351	F: GAGCGAGTACATGGGAGGAA R: TTAGACTCCCCCTCCACACA	112 bp
TCONS_00085765	F: TTCAGTGTAGTCGCTGGCAC R: GCCCCTTCCATCAGCACATT	128 bp
TCONS_00109062	F: CTTCTCTCCTACTTCACAGCCC R: GAGAAGGCAAATGGGGTCAG	90 bp
TCONS_00042276	F: CAAGGGGTCACGATGTCTCA R: GGAGAAACCACCGACCAACC	107 bp
Pax3	F: CAAAAGAGAGAACCCCGGCA R: ACTCACTGAGGGTACGGTGT	94 bp
Pax7	F: AGCCAGAGTTTCAACGGGAG R: GTCGCCAACAGACAACACAC	93 bp
HDAC4	F: AAGCCAAATGCTTTCTCTGTCC R: GTGCTGGGCATGTGGTTCAC	97 bp
MyoG	F: GGCTGACAAATGCCAGACTATCC R: TGGTCCCTTGCTTTATCTCCCT	140 bp
MyHC	F: CTGGAATCCGGAGGCAGAA R: TTTTCGAAGGTAGGGAGCGG	105 bp
GAPDH	F: TGTGTGGATCTGACCTGCC R: AAGTCGCAGGAGACAACCTG	135 bp
pre-GAPDH	F: TCCCTCCACGATGCCAAAG R: GAAGCGGGCTGATAGTGCC	143 bp
β-actin	F: CATGTACGTTGCTATCCAGGC R: CTCCTTAATGTCACGCACGAT	250 bp
U6	F: GGAACGATACAGAGAAGATTAGC R: TGGAACGCTTCACGAATTTGCG	68 bp
HNRNPA2B1	F: ATGGAGGAGGAAGAGGAGGATATGG R: AGTTGTCATAACCACCTCCGTAGC	84 bp
DHX9	F: TGGAGGCTCTGGTTGTTGAAGT	90 bp

	R: GGCGGATTGTGTTTCAGCATACG	
bta-miR-206 ^a	F: CGTGGAATGTAAGGAAGTGTGTGG	
5.8s-rRNA ^a	F: GACTATGCCTGTCTGAGCGTCACTT	
LncA2B1 (52–269bp)	F1: TTTGGCCGGTAGGAACGTAG R1: TGTGGTGTTCACGCCATGT	237 bp
LncA2B1(141–394bp)	F2: TAAGGATTCCAGGGCAGTGT R2: CAGAGCCTTTTCAACCAGGAA	254 bp
LncA2B1 (375–878bp)	F3: TCCTGGTTGAAAAGGCTCTGG R3: GGAAGCGATGGTATGCTGGA	504 bp
LncA2B1 (202–2005bp)	F4: CAGTGGCTTGGCAACTTCAC R4: GCAGAAAAGTCCCATAGGCATC	1,804 bp
LncA2B1 (104–2005bp)	F5: GAAGAGGAGGTGCCAGTATGA R5: GCAACTTGCAGAAAAGTCCCATAGG	1,902 bp
LncA2B1 Sense	F:TAATACGACTCACTATAGGGGGCAAGAGAAAG TAACACATGACATCTTTCT	2,033 bp
LncA2B1 anti-Sense	R:CAAAAATTGAAAATGATCATGTTATAAGAAACT F:TAATACGACTCACTATAGGGCAAAAATTGAAAA TGATCATGTTATAAGAAACT	2,033 bp
	R: GGCAAGAGAAGTAACACATGACATCTTTCT	

^a Sense primers for mature miRNAs and 5.8 s rRNA RT-qPCR are provided here; GeneCopoeia were provided anti-sense primers as a Universal Adaptor PCR Primer.

Table S4. The primer sequences of gene cloning.

Genes	Primer sequences/ (5'→3')	Sites
pET-	F: CCGGAATTCGAAGAGGAGGTGCCAGTATGAA	EcoRI
lncA2B1	R: CCGCTCGAGCGCTGATTCCAGAGCCTTTTC	XhoI
pcDNA3.1-	F: CCGCTCGAGGGCAAGAGAAGTAACACATGACATCTTTCT	XhoI
lncA2B1	R: TGCTCTAGACAAAATTGAAAATGATCATGTTATAAGAAACT	XbaI
psicheck2-	F: CCGCTCGAGGGCAAGAGAAGTAACACATGACATCTTTCT	XhoI
lncA2B1	R: ATTTGCGGCCGCCAAAATTGAAAATGATCATGTTATAA- GAAACT	NotI

Table S5. The antibody information.

Name	Dilution	Manufacturer
Myosin heavy chain (MyHC)	1:100	DSHB, USA
Myogenin	1:500	
GAPDH	1:1,000	ZSGB-BIO, China
HRP Goat anti-mouse IgG	1:20,000	
HRP Goat anti-rabbit IgG	1:20,000	
Anti-PAX7 Antibody	1:1,000	Bioss, China
Anti-HDAC4 antibody	1:1,000	
Anti-Myosin VIIa	1:500	abcam, USA
Anti-HNRNPA2B1 rabbit polyclonal anti-body	1:500	BBI, China
Anti-DHX9 Antibody	1:100	BOSTER, China