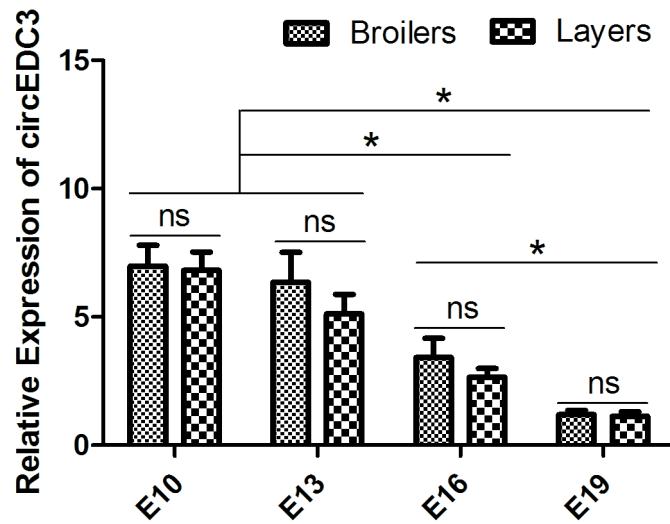


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3 Appendix A Expression pattern of circEDC3 in different lines and developing phases in chicken. qPCR results showing the
4 significant differential expressions of circEDC3 in different lines and developing phases in chicken. The Student's t-test was
5 used to compare expression levels among different groups. * $p < 0.05$.

6

Appendix B Composition and nutrient levels of the basal diet (air-dry basis) (g/kg)

Ingredients	content	Nutrient levels^b	content
Corn	553	ME (MJ/kg)	12.13
Soybean meal	365.7	CP	205
Admixture oil	28	Lys	11.5
Limestone	13.1	Met + Cys	8.1
CaHPO4	12.6	Ca	9
NaCl	12.6	TP	5.7
Premixa	3		
50% choline (50%)	10		
Lys	0.2		
Met	2.4		

a : The premix provided the following per kg of the diet: Cu 8 mg; Fe 90 mg; Zn 50 mg; Mn 80 mg; I 0.30 mg; Se 0.15 mg; vitamin A(Retinol) 10000 IU; vitamin D3(Cholecalciferol) 2,100 IU; vitamin E(tocopherol) 14.97 IU; vitamin K3(menaphthone) 0.6 mg; vitamin B1(thiamine) 2.0 mg; vitamin B2(Riboflavin) 4.0 ng; vitamin B12(cyanocobalamin) 0.01 mg; nicotinic acid 30.0 mg; folic acid 0.6 mg; biotin 0.15 mg; D-pantothenic acid 11 mg; phytase 700 U.

b : Nutrient levels are calculated value.

Appendix C RNA oligonucleotides in this study.

SiRNA	Sense Strands (5'→3')	Anti-Sense Strands (5'→3')
circEDC3-siRNA1	GAAUUCUGCACGGCAAUUGTT	CAAUUGCUGCGAGAAUUCTT
circEDC3-siRNA2	GCACGGCAAUUGUGUGGCCATT	UGGCACACAAUUGCCGUGCTT
circEDC3-siRNA3	UCUGCACGGCAAUUGUGUGTT	CACACAAUUGCCGUGCAGATT
NC siRNA	UUCUCCGAACGUGUCACGUTT	ACGUGACACGUUUCGGAGAATT

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Appendix D qPCR primers in this article

Gene	Primer sequence (5'-3')	Product length
circEDC3	F: CGGCACGATGAGAACAT R: ATCCACAGCGGACACT	193
CCND1	F: CTCCTATCAATGCCTCACA R: TCTGCTTCGTCCTCTACA	165
CCND2	F: GCACAACTTACTGACGATAG R: CTTCACAGACCTCCAACAT	125
PCNA	F: AACACTCAGAGCAGAAGAC R: GCACAGGAGATGACAACA	225
CDK2	F: CCAGAACCTCCTCATCAAC R: CAGATGTCCACAGCAGTC	171
Ki67	F: GCAACAACAAGGAGGGCTCG R: TTCAGGTGCCATCCCGTAAC	93
MYOD	F: GCCGCCGATGACTTCTATGA R: CAGGTCTCGAAGAAGTGCAT	66
MYOG	F: CGTGTGCCACAGCCAATG R: CCGCCGGAGAGAGACCTT	63
MYHC	F: GAAGGAGACCTCAACGAGATGG R: ATTCAAGGTGTCCCAGTCATCC	138
Caspase 3	F: TTCAGGTGCCATCCCGTAAC R: TCCACTGTCTGCTTCAATACC	186
Caspase 8	F: CCCTGAAGACAGTGCCATT R: GGGTCGGCTGGTCATTTCAT	106
Caspase 9	F: GCTTGTCCATCCCAGTCAA R: CAGTCTGTGGTCGCTCTTGT	95
Bcl-2	F: ATCGTCGCCTTCTTCGAGTT R: ATCCCATCCTCCGTTGTTCT	150
GAPDH	F: CCAGAACATCATCCCAGCGTC R: ACGGCAGGTCAACAA	136

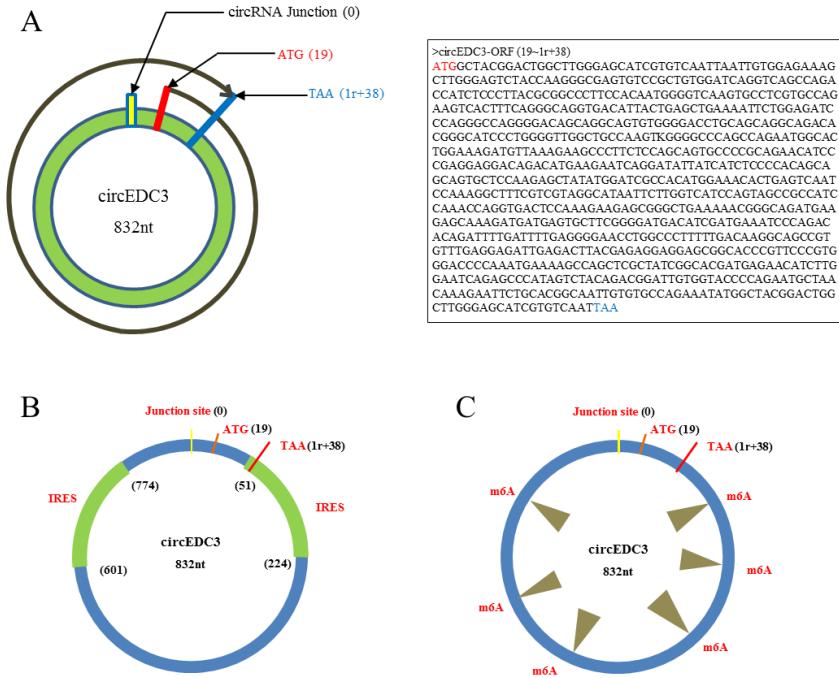
Appendix E Target miRNAs of circEDC3

	mfe(kcal/mol)	Seed compete	Position
gga-miR-103-2-5p	-29.4	7mer-m8	296
gga-miR-107-5p	-26.9	7mer-m8	296
gga-miR-1580	-20.4	7mer-m8	310
gga-miR-1592	-24.1	7mer-m8	224
gga-miR-1602	-26.2	7mer-m8	740
gga-miR-1626-5p	-23	7mer-m8	429
gga-miR-1669	-24.1	8mer	761
gga-miR-1680-5p	-28.4	7mer-m8	356
gga-miR-1685-3p	-18.2	8mer	180
gga-miR-1685-5p	-23.4	8mer	506
gga-miR-1696	-23.7	7mer-m8	396
gga-miR-1710	-21.4	8mer	543
gga-miR-1716	-36.3	8mer	334
gga-miR-1721	-23.9	7mer-m8	388
gga-miR-1728-3p	-24.8	7mer-m8	316
gga-miR-1737	-29	7mer-m8	409
gga-miR-1747-5p	-23.3	7mer-m8	113
gga-miR-1783	-24.5	7mer-m8	739
gga-miR-1792	-22.8	7mer-m8	697
gga-miR-1795	-18.6	7mer-m8	745
gga-miR-1802	-21.8	7mer-m8	145
gga-miR-187-3p	-29.2	7mer-m8	252
gga-miR-18a-3p	-30.2	7mer-m8	166
gga-miR-2131-5p	-18.1	7mer-m8	790
gga-miR-222b-5p	-26.4	7mer-m8	179
gga-miR-24-5p	-28.2	8mer	455
gga-miR-458a-3p	-27.7	8mer	416
gga-miR-551-5p	-16.8	7mer-m8	589
gga-miR-6552-5p	-28.4	8mer	342
gga-miR-6555-3p	-23.2	7mer-m8	420
gga-miR-6561-5p	-31.1	7mer-m8	293
gga-miR-6573-3p	-31.1	7mer-m8	139
gga-miR-6574-3p	-26.3	7mer-m8	757
gga-miR-6608-3p	-29.4	7mer-m8	399

gga-miR-6615-3p	-21.5	7mer-m8	294
gga-miR-6621-5p	-24.4	7mer-m8	258
gga-miR-6689-3p	-20.9	7mer-m8	485
gga-miR-6697-5p	-18.2	7mer-m8	472
gga-miR-7456-3p	-27.1	7mer-m8	93

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16 **Appendix F** Schematic diagrams of ORF, IRES, and m⁶A in circEDC3. (A) The Schematic diagram of ORF in
 17 circEDC3. (B) The Schematic diagram of IRES in circEDC3. (C) The Schematic diagram of m⁶A in circEDC3.