

Supplementary material for**Effects of treatment with a microRNA mimic or inhibitor on the developmental competence, quality, epigenetic status and gene expression of buffalo (*Bubalus bubalis*) somatic cell nuclear transfer embryos***S. Sah^A, A. K. Sharma^A, S. K. Singla^A, M. K. Singh^A, M. S. Chauhan^A, R. S. Manik^A and P. Palta^{A,B}*^AEmbryo Biotechnology Laboratory, Animal Biotechnology Centre, Indian Council of Agricultural Research–National Dairy Research Institute, GT Road, Karnal, Haryana, 132001 India.^BCorresponding author. Email: prabhatpalta@yahoo.com**Table S1. Details of locked nucleic acid (LNA) primers for miRNAs**

S. No.	miRNA	Target sequence	Exiqon Catalog number (for LNA universal primers)
1.	mir-423-3p	AAGCUCGGUCUGAGGCCCCUCAGU	2104383
2.	mir-103-3p	AGCAGCAUUGUACAGGGCUAUGA	204063
3.	mir-30c-5p	UGUAAACAUCCUACACUCUCAGC	204783
4.	mir-25-3p	CAUUGCACUUGUCUCGGUCUGA	204361
5.	mir-145-5p	GUCCAGUUUUCCCAGGAAUCCCU	204483
6.	mir-29b-3p	UAGCACCAUUUGAAAUCAGUGUU	204679
7.	mir-21-5p	UAGCUUAUCAGACUGAUGUUGACU	204230
8.	mir-34a-5p	UGGCAGUGUCUUAGCUGGUUGU	204486
9.	mir-302b-3p	UAAGUGCUUCCAUGUUUUAGUAG	204773
10.	mir-101-3p	UACAGUACUGUGAUAAACUGAA	204786
11.	mir-200b	UAAUACUGCCUGGUAUGAUG	2111631
12.	mir-26a-5p	UUCAAGUAAUCCAGGAUAGGCU	206023
13.	mir-22-3p	AAGCUGCCAGUUGAAGAACUGU	204606
14.	mir-374a-5p	UUAUAAUACAACCUGAUAAAGUG	204758
15.	mir-128-3p	UCACAGUGAACCGGUCUCUUU	205995

Table S2. PCR primers

Gene	Sequence	Annealing temperature (°C)	Product size (bp)	Acc. No
<i>DNMT3a</i>	F- GATGAACGCACAAGAGAGCG R- TCCTCCGATGAAGAGAGGGT	60	123	NM_001206502.1
<i>DNMT3b</i>	F- ATGTGGTGGCCATGAAGGTT R- CTGTGAGCAGCAGACACTTTGAT	60	100	NM_181813
<i>KLF4</i>	F- AAACCAAAGAGGGGAAGACGG R- TAAGGTTTCTCACCTGTGTGGG	60	140	NM_001105385.1
<i>OCT4</i>	F- GTTCTCTTTGGAAAGGTGTTC R- AACTCGGACCACGTCTTTC	60	514	AF022987
<i>NANOG</i>	F- ACTTTCCAACATCTTGAACCTC R- GTATGCCATTGCTATTTCTCGG	60	116	NM_001025344.1
<i>SOX2</i>	F- ACCAGCTCGCAGACCTACAT R- GGTAGTGCTGGGACATGTGA	60	265	NM_001105463.2
<i>SIRT1</i>	F- CCAACGGTTTCCATTCGTGT R- TATGGACCTATCCGAGGTCTTG	60	94	NM_001192980.2
<i>CDX2</i>	F- GAGAAGGAGTTTCACTACAGTCG R- TTCCTTTCCTTTGCTCTGCG	60	124	NM_001206299.1
<i>CCNE1</i>	F- CTGGATGTCCGGGTGCTTAGA R- CACCACTGATACCCTGAAACC	60	107	NM_001192776.1
<i>ACVR2B</i>	F- GGAAGAATCACAGGCAGAACTC R- ACTTCATTCCGACATTCATCCA	58	176	AB571118.1
<i>EZH2</i>	F- CAGATAAGGGCACAGCAGAAGA R- TTTGGTCCATCTATGTTGGGGG	60	109	NM_001193024.1
<i>HPRT1</i>	F-GAGAAGTCCGAGTTGAGTTTGGAA R-GGCTCGTAGTGCAAATGAAGAGT	60	191	NM_001034035.2
<i>GAPDH</i>	F- TCAAAGAAGGTGGTGAAGCAG R- CCCAGCATCGAAGGTAGAAG	58	123	NM_001034034.2