MicroRNA-212 Targets *SIRT2* to Regulate Lipogenesis in Bovine Mammary Epithelial Cell Line

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SUPPLEMENTARY FILE

Supplementary Materials and Methods

Cultivation of MAC-T cells and HEK 293T cells

The MAC-T cells and the HEK 293T cells were cultivated in complete DMEM/ F-12 medium (Gibco, cat: 11330032) mixed with 10% fetal bovine serum (FBS) (Gibco, cat: 10099141), 100 μ g/ ml penicillin, and 100 μ g/ ml streptomycin at 37°C in humid Cell culture incubator (150i, Thermo Fisher, USA) with 5% CO₂.

Primer sequences

The sequences of the miR-212 mimics used were 5'-

ACCUUGGCUCUAGACUGCUUACU-3' and 5'-

UAAGCAGUCUAGAGCCAAGGUUU-3'.

The sequence of the *miR-212* inhibitor were 5'-AGUAAGCAGUCUAGAGCCAAGGU-3'

The sequences of the *miR-375* mimics were 5'-UUUUGUUCGUUCGGCUCGCGUGA-3' and 5'-ACGCGAGCCGAACGAACAAAUU-3'

The sequence of the *miR-375* inhibitor was 5'-UCACGCGAGCCGAACGAACAAAA-3' The sequences of the *miR-655* mimics were 5'-AUAAUACAUGGUUAACCUCUCU-3' and 5'-AGAGGUUAACCAUGUAUUAUUU-3'

The sequence of the *miR-375* inhibitor was 5'-AGAGAGGUUAACCAUGUAUUAU-3'.

Supplementary Figure Legends

- **Fig. S1** miR-212, miR-375 and miR-655 were predicted to target the 3'UTR of *SIRT2*.
- **Fig. S2** The agarose gel electrophoresis results of RNA extraction from MAC-T cells.

Fig. S1

Position 162-168 of SIRT2 3'UTR	5'CUCCACCACCUCCCACCAAGGAG
bta-miR-212	3' UCAUUCGUCAGAUCUC <mark>GGUUCC</mark> A
Position 761-767 of SIRT2 3'UTR	5'UAGAGAUGAAUUAAAAACAAAAA
bta-miR-375	3' AGUGCGCUCGGCUUGC <mark>UUGUUU</mark> U
Position 318-325 of SIRT2 3'UTR	5'AGAACAUUUCUUCAAUGUAUUAA
bta-miR-655	3' UCUCUCCAAUUGGUACAUAAUA

Fig. S2

