

SUPPLEMENTARY TABLES

Supplementary Table 1. The primers used in this study are listed as follows.

| Primers | Sequence (5'-3') |
|---------------------|----------------------------------|
| circMBOAT2 Forward | TGGGCCTTTATCTTGCACTT |
| circMBOAT2 Reverse | AGGCAAAGA GTTGGCACTACTA |
| MBOAT2 Forward | GGGTATGACGAAAATGGAGCA GC |
| MBOAT2 Reverse | CTTTTGAGCCAAA GA GCTGTCTG |
| GAPDH Forward | CAAGGCTGAGAA CGGGAA G |
| GAPDH Reverse | TGAAGACGCCA GTGGACTC |
| MTOR Forward | AGCATCGGATGCTTAGGAGTGG |
| MTOR Reverse | CAGCCAGTCATCTTTGGA GA CC |
| CAMK2N1 Forward | GGACACCAACAA CTTCTTCGGC |
| CAMK2N1 Reverse | GTCGGTCATATTTTTCA GCA CGTC |
| BSDC1 Forward | CTGAGCCCTATGATGGCA CCAA |
| BSDC1 Reverse | ACTGGAAAGCCA GGCCTCAA |
| ZCCHC11 Forward | TGCTCAACAGGTGGCTGGTTCA |
| ZCCHC11 Reverse | GAGTTCTGTGGAAATGGCTGAGG |
| miR-1271-5p Forward | ACACTCCAGCTGGGCTTGGCACCTAGCAAG |
| miR-330-3p Forward | ACACTCCAGCTGGGGCAAAGCACACGGCCTG |
| miR-454 Forward | ACACTCCAGCTGGGTA GTGCAATATTGCTTA |
| miR-3666 Forward | ACACTCCAGCTGGGCA GTGCAA GTGTAGA |
| miR-889 Forward | ACACTCCAGCTGGGAATGGCTGTCCGTA GT |
| miRNA Reverse | GTGCA GGGTCCGAGGT |
| U6 Forward | CGCTTCGGCAGCACATATAC |
| U6 Reverse | TTCA CGAATTTGCGTGT CAT |
| 18S rRNA Forward | GGAGTATGGTTGCAAAGCTGA |
| 18S rRNA Reverse | TCCTGCTTTGGGGTTCGATT |

Supplementary Table 2. The probes used in this study are listed as follows.

| FISH Probes | Sequence (5'-3') |
|------------------------------|--|
| Cy3-U6 | TTTGCGTGTGTCATCCTTGCG |
| Cy3-18S | CTTCCTTGGATGTGGTAGCCGTTTC |
| Cy3-circMBOAT2 | UGGCACA CUA CAAA GUUGA CUUGUGCAUGUUCUCCACUCC |
| FAM 3-miR-1271-5p | TGAGTCTTGCTAGGTGCCAAG |
| Biotin-labeled probes | |
| Biotin-NC | CUGUACUUGUCCAACUCAAGUGCUAUACUUGGUA GAUCA GA |
| Biotin-circMBOAT2 | UGGCACA CUA CAAA GUUGA CUUGUGCAUGUUCUCCACUCC |
| Biotin-miR-1271-5p mimic | CUUGGCA CUA GCAAGCA CUCA |
| Biotin-mimic NC | CAGUACUUUUGUGUA GUA CAA |

Supplementary Table 3. The oligonucleotides transfected in this study are listed as follows.

| Oligonucleotides | Sequence (5'-3') |
|-----------------------------|--------------------------|
| si-NC sense | UUCUCCGAACGUGUCACGUTT |
| si-NC antisense | ACGUGACACGUUCGGAGAATT |
| si-circMBOAT2#1 sense | CAUGCACAAGUCAACUUUGTT |
| si-circMBOAT2#1 antisense | CAAAGUUGACUUGUGCAUGTT |
| si-circMBOAT2#2 sense | CACAAGUCAACUUUGUAGUTT |
| si-circMBOAT2#2 antisense | ACUACAAAGUUGACUUGUGTT |
| sh-circMBOAT2#1 sense | CAUGCACAAGUCAACUUUGTT |
| sh-circMBOAT2#1 antisense | CAAAGUUGACUUGUGCAUGTT |
| mimic NC sense | UUCUCCGAACGUGUCACGUTT |
| mimic NC antisense | ACGUGACACGUUCGGAGAATT |
| miR-1271-5p mimic sense | CUUGGCA CUA GCAAGCA CUCA |
| miR-1271-5p mimic antisense | AGUGCUUGCUGGUGCCAA GUU |
| inhibitor NC | CAGUACUUUUGUGUAGUCAA |
| miR-1271-5p inhibitor | ACGUGACACGUUCGGAGAATT |