

Table S1. Primer information for the buffalo *SQLE* gene.

Primer	Sequence (5'-3')	Production Size (bp)
1	F: GACTGTACACATACCTATAA R: TCAAATCTCTGAAGGGATAG	710
2	F: GGAAACAAGATTTGGAGACC R: TTCACCTTACTGTAACCCTG	703
3	F: GAACGATAAGGTATGAATAA R: TGAATCTGCAAGAAGGTGTG	620
4	F: CCTTGCTTGATTCACTCCAG R: TAGGACGAGGTTGCGTGGTG	665
5	F: ACACCACGCAACCTCGTCCT R: GCCTTCTCCCACCAAAGATG	499
6	F: ATCTCGGCCTACAAGCGGTG R: CTCCCCTTTCACGCAATCCA	721
7	F: TTGATGTTTGTCTCCCTGTT R: GTAGCGATAAGACAGCACGA	599
8	F: TCGTGCTGTCTTATCGCTAC R: CTTAATCAAACCCAGTTCGT	435
9	F: TCTGACTCTTTGTGACCCTG R: TTATCCTCTCCTTTGCCTTC	693
10	F: GGATCTTAAAGGATGCTTCA R: ACATCTCTGAGGCTAAGTGG	411
11	F: CCACTTAGCCTCAGAGATGT R: AAAGGACTTATTGACTTGGA	435
12	F: TTGTCCCTTGACCAGCAGAT R: TTTAGAAGCAGGAGGAGTAC	447

Table S2. Primer sequences used for qRT-PCR assay and siRNA sequences.

Genes	Primer Sequence (5'-3')	Annealing Temperature (°C)	Production Size (bp)
<i>SQLE</i>	F: GCAGCGCGCATAAGTGTATC R: GAGGAATCAGGCACAGCCTT	60	231
<i>GAPDH</i>	F: AGGTTGTCTCCTGCGACTTC R: ATTCTCAGTGTGGTGGAGGTG	60	263
<i>PCNA</i>	F: GAACCTCACCAGCATGTCCAA R: TTCACCAGAAGGCATCTTTACT	60	220
<i>P21</i>	F: GCCTTCCAGAGGCTCAACTT R: GCTTCGCTATGGTCCTCTCC	60	115
<i>SREBP1</i>	F: AGTAGCAGCGGTGGAAGT R: GCAGCGGCTCTGGATT	58	82
<i>JAK2</i>	F: TGAAGAAAACAGGTAATCAGACTGGA R: AACATTTTCTCGCTCAACAGCA	60	101
<i>RPS6KB1</i>	F: AAATGCTGCTTCTCGTCT R: GTTCTTCCCAGTTAATATGTCT	54	89
<i>eIF4E</i>	F: GTGACCTCGATCGTTTTTGG R: TAGTGGTGGAGCCGCTCTTA	55	264
si-SQLE (1103)	F: CCUAUAUUCUGUCAGCCUUTT R: AAGGCUGACAGAAUAUAGGTT		
si-SQLE (1843)	F: GCACCGCAGUUUAAAGCAATT R: UUGCUUUAAACUGCGGUGCTT		
si-SQLE (1960)	F: CCAAGGAAUUUGAGAGAAUTT R: AUUCUCUCAAUUCUUGGTT		
si-SQLE (2031)	F: CCUAGAAGCCUCUCAGAAUTT R: AUUCUGAGAGGCUUCUAGGTT		