Supplementary Table 1. Nucleotide sequence of primers used in RT-qPCR analyses

Gene Forward primer Reverse primer GenBank

 accession number

Amd11 5’-gatgtgcagtgctcaatcataag-3’ 5’-gaaacgtctcttggagacaaaca-3’ NM\_031011

Cdo12 5’-tggatcaaggaaatgggaag-3’ 5’-ggagtccgtgtgatcgtga-3’ NM\_052809

Csad3 5’-ggagaggcagatcagtctgg-3’ 5’-aggtggcactgaccagaaat-3’ NM\_021750

G6p4 5’-ctcactttccccatcaggtg-3’ 5’-gaaagtttcagccacagcaa-3’ NM\_013098

G6pd5 5’-ttatcatcatgggtgcatcg-3’ 5’-aaggtgtcttcgggtagaagg-3’ NM\_017006

Gck6 5’- gcccagttgttgactctggt -3’ 5’- catcaccttcttcaggtcttcc -3’ [NM\_012565](https://qpcr.probefinder.com/MainServlet.do)

Gnmt7 5’-gagtacaaggcgtggttgct-3’ 5’-cagcataatcgagtccactcct-3’ NM\_017084

Hprt18 5’-gaccggttctgtcatgtcg-3’ 5’-acctggttcatcatcactaatcac-3’ NM\_012583

Ldh9 5’- gatgatggatcttcagcatgg -3’ 5’- gcttggagtttgcagtcaca -3’ NM\_17025

Mat1a10 5’-gggtggtgagagacaccatt-3’ 5’-gcaggtcttgaagtcgaagc-3’ NM\_012860

Mat2a11 5’-tgtaggggaaggtcatccag-3’ 5’-tcacaagccactttagcatcag-3’ NM\_134351

Mat2b12 5’-aggcggtcctggagaataat-3’ 5’-aacctccccatacagaacagg-3’ NM\_001044282

Pck113 5’-gatgacattgcctggatgaa-3’ 5’-aaccgttttctgggttgatg-3’ NM\_198780

Sardh14 5’- ctcttctcagcagatgtcaacc -3’ 5’- taacagtcaggtcgctctcg -3’ NM\_053664

Sat115 5’- gaaacgaatgaggaaccacct -3’ 5’- tttgcttttcttccctttgc -3’ NM\_001007667

Sds16 5’-ccaaccttcaaagctacatgc-3’ 5’-gctgtcacgtagtggggtct-3’ NM\_053962

Srm17 5’-gtcctacgggaagtggtgaa-3’ 5’-tcaatgacatcctcatcgatct -3’ NM\_053464

# 1adenosylmethionine decarboxylase, 2cysteine dioxygenase, type 1, 3cysteine sulfinic acid decarboxylase, 4glucose-6-phosphatase, 5glucose-6-phosphate dehydrogenase, 6glucokinase, 7glycine *N*-methyltransferase, 8hypoxanthine phosphoribosyltransferase 1, 9lactate dehydrogenase, 10methionine adenosyltransferase I, 11methionine adenosyltransferase II, 12methionine adenosyltransferase II, 13Phosphoenolpyruvate carboxykinase 1, 14sarcosine dehydrogenase, 15spermidine/spermine N1-acetyl transferase 1, 16serine dehydratase, 17spermidine synthase.