Supplemental Table Primers used in this study

| **Gene** | **Sequence (5'-3')** | **Purpose** |
|---|---|---|
| *MDH* | F: CGTGATTGGGTACTTGGAAC | Reference gene used in real-time PCR |
| | R: TGGCAAGTGACTGGGAATGA | |
| q*ATG3a* | F: AAGGGGGCGGAGATGGTTC | Quantitative expression of *MdATG3a* |
| | R: GCACTTAGAGACGAGGTTATCGC | |
| *qATG3b* | F: AGGGAGATGGTTTTGAAACAGA | Quantitative expression of *MdATG3b* |
| | R: ACTTAGAGACGAGGTTATCGC | |
| q*ATG4* | F: CACAATCTTCTTCAGGCTGGAA | Quantitative expression of *MdATG5* |
| | R: CATCAAGGTCAGTTGCTTCTCT | |
| *qATG7a* | F: GCGGATATGAGCAACCTTGGC | Quantitative expression of *MdATG7a* |
| | R: ATCAATAGGCGCAACGACATCA | |
| q*ATG8c* | F: GCGTTCAAGATGGAGCACCCTC | Quantitative expression of *MdATG8c* |
| | R: CAGCCCTTTCCACAACCACTGG | |
| q*ATG8f* | F: TCGTAGACAATGTCCTCCCAGC | Quantitative expression of *MdATG8f* |
| | R: CCAAATGTGTTCTCGCCACTGT | |
| q*ATG8i* | F: GCAGCAGGCTTCACTTGACTCC | Quantitative expression of *MdATG8i* |
| | R: GGAATCCATGCGACTGGCTGTT | |
| q*ATG9* | F: ACTTCATGCGTCAGCCTTCAGA | Quantitative expression of *MdATG9* |
| | R: CGTTCCTCCAATCCAACCGTTG | |
| *qATG12* | F: ACAGTGCATTCTCGCCAAACCC | Quantitative expression of *MdATG12* |
| | R: CCCCATGCCATGGAGCAAGC | |
| q*NRT1.1* | F: CTGGCTGGTCCCACAGTTCTT | Quantitative expression of *MdNRT1.1* |
| | R: CTTCATTCCTTTCGGGCACTC | |
| *qNRT2.4* | F: CAGAAGGTGAACCCGGAAG | Quantitative expression of *MdNRT2.4* |
| | R: CAAGTGGAACGTCCTCATGTG | |
| q*NRT2.5* | F: TTGTGGTCCATCTAAGAACAAGGC | Quantitative expression of *MdNRT2.5* |
| | R: TCATCAGAGGGTCGGGTAACAG | |
| q*NRT2.7* | F: TCTCCAGGCAGACGAGCATT | Quantitative expression of *MdNRT2.7* |
| | R: GGAGCAAGTGATACTGGTTTGTTTC | |
| q*AMT1.1* | F: ATCCGACGCCAACTACACTTCTAC | Quantitative expression of *MdAMT1.1* |
| | R: CGATTTGGTCACAGATGAAGTGAG | |
| q*AMT1.2* | F: CTGGCTGGTCCCACAGTTCTT | Quantitative expression of *MdAMT1.2* |
| | R: CTTCATTCCTTTCGGGCACTC | |
| q*AMT1.6* | F: GTAACTTATTGTTCACCTCTGGGGC | Quantitative expression of *MdAMT1.6* |
| | R: CGTTCCTGAACGCGTCGAAT | |
| q*AMT2.1* | F: GTGACGATGGATCGATTGAGACTC | Quantitative expression of *MdAMT2.1* |
| | R: CCCGCTAACAAAATAAGAGTAATAGCT | |