

Primer sequences used for real-time PCR

| mRNA Target    | Accession No. | Primer Sequence (5'-3') |                       | Product Size (bp) |
|----------------|---------------|-------------------------|-----------------------|-------------------|
|                |               | Forward                 | Reverse               |                   |
| ATG12          | NM_001038495  | GCCTCGGAGCAGTTGTTTATTT  | GACCAGTTTACCATCACTGCC | 105               |
| BNIP3          | NM_053420     | AGCCATTGGATTGGGGATCTA   | ACAGCTCAGCGTGAATCCTC  | 113               |
| CTSL           | NM_013156     | CTCTGCTTGGGAACAGCCTT    | TCCACTCTTCCTCATTCGTGC | 115               |
| LC3            | NM_022867     | CGGGTTGAGGAGACACACAA    | CTTTGTTCTGAAGCTCCGGC  | 120               |
| MAFbx          | NM_133521     | GGATACTGCACTTTGGGGGA    | ATCAGCTCCAACAGCCTTACT | 101               |
| MuRF1          | NM_080903     | TTGAGGGCCATCGACTTTGG    | ATTGGTGTCCCTCTGTGGAC  | 100               |
| PGC-1 $\alpha$ | NM_031347     | ATGGAGTGACATAGAGTGTGCT  | AGAAAGCTGTCTGTGTCCAGG | 117               |
| REDD1          | NM_080906     | CACCGGCTTCAGAGTCATCA    | CGGGTCTCCACCACAGAAAT  | 136               |
| B2M            | NM_012512     | ACTGAATTCACACCCACCGA    | TACATGTCTCGGTCCCAGGT  | 115               |

ATG12, Autophagy related 12; B2M, beta-2 microglobulin; BNIP3, BCL2/adenovirus E1B 19kDa interacting protein 3; CTSL, Cathepsin-L; LC3, microtubule associated protein 1 light chain 3; MAFbx, muscle atrophy F-box; MuRF1, muscle specific RING finger 1; PGC-1 $\alpha$ , peroxisome proliferator-activated receptor gamma coactivator-1; REDD1, regulated in development and DNA damage 1