Primers used in Real-time PCR analysis (**mouse**)

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| **Gene name** | **Primers** |
| *Atrogin-1* | Forward: 5’-CTTCAAAGGCCTCACGATCAC-3’  Reverse: 5’-CAGCCTCTGCATGATGTTCAG-3’ |
| *MuRF1* | Forward: 5’-CAACCTGTGCCGCAAGTGT-3’  Reverse: 5’-GGGATTGCCACAGAGGATTAGA-3’ |
| *MUSA1* | Forward: 5’-GACGGTGTATGACCAGACCA-3’ |
| Reverse: 5’-TTCGTGCCAGGGTAAATGGA-3’ |
| *MyHC-I* | Forward: 5’-TGCTCTGGAGGCCTTTGG-3’ |
| Reverse: 5’-CCAAATCGAGAGGAGTTGTCATT-3’ |
| *MyHC-IIa* | Forward: 5’-CCCCGCCCCACATCTT-3’ |
| Reverse: 5’-GATTGACTGATTCTCCCTGTCTGTTA-3’ |
| *MyHC-IIx* | Forward: 5’-GGCCCCACCCCACATC-3’ |
| Reverse: 5’-CTCCCGATCTGTCAGCATGA-3’ |
| *MyHC-IIb* | Forward: 5’-CACAGAgTCAGGCGAGTTTTCC-3’ |
| Reverse: 5’-TCTAGCTGCCTCTTTAGTTCCTCAA-3’ |
| *IRE1α* | Forward: 5’-GCCGAAGTTCAGATGGAATC-3’ |
| Reverse: 5’-ATCAGCAAAGGCCGATGA-3’ |
| *ATF6* | Forward: 5’-GGACGAGGTGGTGTCAGAG-3’ |
| Reverse: 5’-GACAGCTCTTCGCTTTGGAC-3’ |
| *PERK* | Forward: 5’-CAGTGTTTGGCTTAGGGGCA-3’ |
| Reverse: 5’-TGGCTTGCTGAGGCTAGATG-3’ |
| *Bip* | Forward: 5’-AAACCAAGACATTTGCCCCAG-3’  Reverse: 5’-AGACACATCGAAGGTGCCG-3’ |
| *CHOP* | Forward: 5’-CCTAGCTTGGCTGACAGAGG-3’ |
|  | Reverse: 5’-CTGCTCCTTCTCCTTCATGC-3’ |
| *ATF4* | Forward: 5’-GGAATGGCCGGCTATGG-3’ |
|  | Reverse: 5’-TCCCGGAAAAGGCATCCT-3’ |
| *GADD34* | Forward: 5-CGGAAGGTACACTTCGCTGA-3’ |
|  | Reverse: 5’-CGGACTGTGGAAGAGATGGG-3’ |
| *Xbp1 spliced (Xbp1s)* | Forward: 5-GAGTCCGCAGCAGGTG-3’ |
|  | Reverse: 5’-GTGTCAGAGTCCATGGGA-3’ |
| *Xbp1 unspliced (Xbp1u)* | Forward: 5-AAGAACACGCTTGGGAATGG-3’ |
|  | Reverse: 5’-ACTCCCCTTGGCCTCCAC-3’ |
| *18s* | Forward: 5’- CCAGAGCGAAAGCATTTGCCAAGA-3’ |
|  | Reverse: 5’- TCGGCATCGTTTATGGTCGGAACT-3’ |