Primers used in Real-time PCR analysis (**rhesus macaques**)

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| **Gene name** | **Primers** |
| *Atrogin-1* | Forward: 5’- ACTATGTGGTCCGGCTGTTG -3’  Reverse: 5’- GGACTTGCCGACTCTTTGGA -3’ |
| *MuRF1* | Forward: 5’- AACAGGAGTGCTCCAGTCGG -3’  Reverse: 5’- ATGGTCTGCACACGGTCATT -3’ |
| *MUSA1* | Forward: 5’- TGCGGTAGCAGCACAACTTA -3’  Reverse: 5’- GAGGCCCATGGGATCTTCTG -3’ |
| *MyHC-I* | Forward: 5’- CCATGAAGGAGGAGTTCGCA -3’ |
| Reverse: 5’- CATCTTCCAGCTTGCGCTTC -3’ |
| *MyHC-IIa* | Forward: 5’- GGCTGATGCAGAGGAAAGGT -3’ |
| Reverse: 5’- CCTTCTCAACCTTGGCCAGT -3’ |
| *MyHC-IIx* | Forward: 5’- CCGAACCCAGCTTGAAGGAT -3’ |
| Reverse: 5’- AGTTCCTCAATACGGGCTTGT -3’ |
| *MyHC-IIb* | Forward: 5’- TCCAAGTTCAAGCTGAAGCAGA -3’ |
| Reverse: 5’- CCTTCTCAACCTTGGCCAGT -3’ |
| *ATF6* | Forward: 5’- TGAATGTGGTACCAGCCCCT -3’ |
| Reverse: 5’- AAGCCTCTGGTTCTCTGACA -3’ |
| *Bip* | Forward: 5’- CATCAACGAGCCTACGGCAG -3’  Reverse: 5’- CCTGACGTCTTTGCCAGTCT -3’ |
| *CHOP* | Forward: 5’- GCCACTTTCTGATTGTGTTCAA -3’ |
|  | Reverse: 5’- GGTACCCCCATTTTCGTCTGA -3’ |
| *ATF4* | Forward: 5’- GTGGAAGAATCGCCTGGTCT -3’ |
|  | Reverse: 5’- TTTGTCGGTTACAGCAACGC -3’ |
| *GADD34* | Forward: 5- GTTGTCCAGCAGTGGAGGAA -3’ |
|  | Reverse: 5’- CTCAGACGCCTCTCCTGAAC -3’ |
| *Xbp1 spliced (Xbp1s)* | Forward: 5- TGGTTGCTAAAGAGGAGGCG-3’ |
|  | Reverse: 5’- GGCTGGTAAGGAACTGGGTC-3’ |
| *Xbp1 unspliced (Xbp1u)* | Forward: 5- AAGGCGCTGAGGAGGAAACTG -3’ |
|  | Reverse: 5’- TGCACGTAGTCTGAGTGCTG -3’ |
| *18s* | Forward: 5’- CTGCGAATGGCTCATTAAATC -3’ |
|  | Reverse: 5’- CGGGTTGGTTTTGATCTGA -3’ |