|  |  |
| --- | --- |
| **Genes** | **Primer sequences (5**'**-3**'**)** |
| **Forward primer** | **Reverse Primer** |
| ***B2M*** ***Cyt B*** ***ND1******ND2******ND3******ND4L******ND4******ND5******ND6******COX1******COX2******COX3******ATP6******ATP8******Cyt B*****12s** | CAGCGTACTCCAAAGATTCA CATCCGACACAACAACAGCAGGATCCTTCACCCTCTCCACACCCAATCATCTTTTTTATTATTCTATCTCAGAAAAAACAAGCCCATATGAGGATCCCACCTAATATCCTCCGGCCTCACATCCTCTATACGGCGACATCGGGTTTATCCCAGTAACAAACGCCCCTAAGCCCGACATAGCATTCCCCCTACTACACTCATGGGCCGGAGTGTACGGCTCAACTTTCTCGGAGGAGCTACACTTGCACAACTAGACACATCAACATGACCAAATCCTCACCGGCCTAGGTCAACGAAACTAAGAGGAG | GAATGCTCCACTTTTTCAAT ATAAGCCTCGTCCTACGTGC GTTCTGATTCTCCTTCGGTGAGCCCGTGGGTTGTGATTGTGGAAGGAGGAGTGCAATTTCTCTGCGAAGACCAGTAAGATGAGGGCTAGGTTGGTTAGGTCCTGTTGCGGCTAGTAATTGTGTTAAATTTTGGTGGGTCAGGTTACCTGCTAAAGGGGATTCAAGGACAATAGGTATAAAGGCCGAAATGGTGGTTAGAGGCTGACTAGGAGGGTGAATACAAATAAATTTTCGTTCATTTTGTTTCTCCTCGTCCTACGTGTATATATAAGGGCTGGCACGAGATTTAC |

**Table S1** Genes and primer pairs used for mtDNA copy number and mitochondrial protein coding gene expression analysis

**B2M Amplification curves:**



**B2M Met Curve:**



**Cyt B Amplification Curve:**



**Cyt B Melt Curve:**



## **Figure S1:** Amplification plots and Melt Curve of Different Analysed Genesfor mt-DNA copy number analysis



***ND4***

***ND3***

***ND2***

***ND1***



***Cyt B***

***ND6***

***ND5***

***ND4L***



***ATP8***

***ATP6***

***COX3***

***COX2***

***COX1***

##  **Figure S2:** Melt Curve of 13 mitochondrial protein coding genes for relative gene expression analysis.