

Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: [10.6084/m9.figshare.15002640](https://doi.org/10.6084/m9.figshare.15002640)

Comparison between F- and M- mtDNAs from *Arctica islandica*

File name: Supplementary Data 2

Description: [10.6084/m9.figshare.15006705](https://doi.org/10.6084/m9.figshare.15006705)

Primers and PCR conditions for amplifying 16S and cytochrome b from *A. islandica*

File name: Supplementary Data 3

Description: 16S sequences from all *A. islandica* population used for phylogenetic analysis

File name: Supplementary Data 4

Description: Cytochrome b sequences from all *A. islandica* population used for phylogenetic Analysis

File name: Supplementary Data 5

Description: 16S sequences from animals used for molecular investigations

File name: Supplementary Data 6

Description: Cytochrome b sequences from animals used for molecular investigations