

Supplementary Table 2. The predicted phosphorylation sites on the Complex IV subunits shared among the three studied species.

The Complex IV subunit on which the predicted phosphorylated site is found, the respective kinase and the amino acid sequence motive around the predicted phosphorylation site are shown. The predicted phosphorylated residues (S or Y) are underlined. The alignment of the respective proteins in MEGA format (<https://www.megasoftware.net/>) can be found on GitHub: https://github.com/RNAdetective/supplements/blob/master/concatenated_mt-proteins-from-selectedBivalves.zip

Site number	Kinase			
	cdc2	PKA	PKC	SRC
Subunit Cox1				
1				
<i>A. islandica</i>	IILAS <u>AS</u> LD			
<i>G. gigas</i>	LILSS <u>AS</u> VD			
<i>M. edulis</i>	VLLSS <u>AS</u> MD			
2				
<i>A. islandica</i>			HYVL <u>S</u> MGAV	
<i>G. gigas</i>			HYVL <u>S</u> MGAV	
<i>M. edulis</i>			HYVL <u>S</u> MGAV	
Subunit Cox 2				
3				
<i>A. islandica</i>		LGYV <u>S</u> LYNL		
<i>G. gigas</i>		LSWP <u>S</u> MGLL		
<i>M. edulis</i>		LWXP <u>S</u> MINL		
Subunit Cox 3				
4				
<i>A. islandica</i>				ADSVY <u>G</u> SVF
<i>G. gigas</i>				SDGVY <u>G</u> SCF
<i>M. edulis</i>				ADSVY <u>G</u> SVF