

Supplementary Table 1. The predicted phosphorylation sites on the Complex I subunits shared among the three studied species.

The Complex I subunit on which the site is found, the respective kinase and the amino acid sequence motive around the predicted phosphorylation site are shown. The predicted phosphorylated residues (S, T 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	CKII	DNAPK	p38MAPK	PKA	Kinase	
					PKC	Unspecified
Subunit ND1						
1						
<i>A. islandica</i>					PNK <u>A</u> FKGA	
<i>G. gigas</i>					PDKT <u>S</u> VGGF	
<i>M. edulis</i>					PSKV <u>S</u> YMGI	
2						
<i>A. islandica</i>					CDSRYAFLG	
<i>G. gigas</i>					STSK <u>Y</u> AGVG	
<i>M. edulis</i>					SNSK <u>Y</u> SLLG	
3						
<i>A. islandica</i>	VEGE <u>S</u> ELVA					
<i>G. gigas</i>	VEAE <u>S</u> ELVS					
<i>M. edulis</i>	VEGE <u>S</u> ELVS					
Subunit ND3						
4						
<i>A. islandica</i>					YNEG <u>T</u> LDWV	
<i>G. gigas</i>					IFEG <u>S</u> VKWT	
<i>M. edulis</i>					YREG <u>S</u> LEWV	
Subunit ND 4						
5						
<i>A. islandica</i>				TVSAS <u>L</u> PLL		
<i>G. gigas</i>				TVGAS <u>F</u> PLL		
<i>M. edulis</i>				TVFGSLFFL		
Subunit ND5						
6						
<i>A. islandica</i>					MAAP <u>T</u> PVST	
<i>G. gigas</i>					MMAP <u>T</u> PVSS	
<i>M. edulis</i>					MAAP <u>T</u> PVSS	
7						
<i>A. islandica</i>				PTPV <u>S</u> TLVH		

<i>G. gigas</i>					PTPV <u>S</u> SLVH	
<i>M. edulis</i>					PTPV <u>S</u> SLVH	
	8					
<i>A. islandica</i>					STLV <u>T</u> AGVY	
<i>G. gigas</i>					STLV <u>T</u> AGVF	
<i>M. edulis</i>					STLV <u>T</u> AGVY	
	9					
<i>A. islandica</i>					VIAL <u>S</u> TLSQ	
<i>G. gigas</i>					VIAL <u>S</u> TLSQ	
<i>M. edulis</i>					VIAL <u>S</u> TLSQ	
	10					
<i>A. islandica</i>					IAL <u>S</u> TLSQL	
<i>G. gigas</i>					IAL <u>S</u> TLSQL	
<i>M. edulis</i>					IAL <u>S</u> TLSQL	
	11					
<i>A. islandica</i>		LSTL <u>S</u> QLGV				
<i>G. gigas</i>		LSTL <u>S</u> QLGL				
<i>M. edulis</i>		LSTL <u>S</u> QLSL				