

**Table S1.** Species names and NCBI accession numbers (or references) corresponding to multiple sequence alignment abbreviations.

Abbreviations	Species	NCBI accession numbers/ References
Mro	<i>Macrobrachium rosenbergii</i>	SRP049917
Cqa	<i>Cherax quadricarinatus</i>	AWK57536.1
Pva	<i>Penaeus vannamei</i>	Torfs et al., 2001
Ham	<i>Homarus americanus</i>	PRJNA300643
Spa	<i>Scylla paramamosain</i>	ALQ28575.1
Csa	<i>Callinectes sapidus</i>	Hui et al., 2012
Cbo	<i>Cancer borealis</i>	Saideman et al., 2007
Nvi	<i>Nezara viridula</i>	Predel et al., 2008
Aga	<i>Austrophasma gansbaaiense</i>	B3A0D7.1
Lma	<i>Leucophaea maderae</i>	P13049.3
Lmi	<i>Locusta migratoria</i>	P85867.1
Dme	<i>Drosophila melanogaster</i>	AAF62876.1

**Table S2. List of amino acid sequences corresponding to multiple sequence alignment abbreviations.**

>*Leucophaea maderae* PK1  
QTSFTPRLG  
>*Drosophila melanogaster* PK1  
SVPFKPRLG  
>*Locusta migratoria* PK1  
QDSGDGWPQQPFVPRLG  
>*Locusta migratoria* PK2  
QSVPTFTPRLG  
>*Nezara viridula* PK1  
FYAPFSPRLG  
>*Nezara viridula* PK2  
QLVSFRPRLG  
>*Nezara viridula* PK3  
SPPFAPRLG  
>*Austrophasma gansbaaiense* PK1  
SPPFAPRLG  
>*Austrophasma gansbaaiense* PK2  
DPPFSPRLG  
>*Austrophasma gansbaaiense* PK3  
SSGGGEGSGMWFGPRLG  
>*Macrobrachium rosenbergii* PK1  
DFAFSPRLG  
>*Macrobrachium rosenbergii* PK2  
SPFSPRLG  
>*Macrobrachium rosenbergii* PK3  
VTTAFIPRLG  
>*Scylla paramamosain* PK1  
DSAFAFSPRLG  
>*Scylla paramamosain* PK2

LYFAPRLG

>*Scylla paramamosain* PK3

TSFAFSPRLG

>*Cherax quadricarinatus* PK1

ADFAFSPRLG

>*Cherax quadricarinatus* PK2

ADFAFNPRLG

>*Cherax quadricarinatus* PK3

ADFAFRPRLG

>*Penaeus vannamei* PK1

DFAFSPRLG

>*Penaeus vannamei* PK2

ADFAFNPRLG

>*Callinectes sapidus* PK1

TNFAFSPRLG

>*Homarus americanus* PK1

GDGFAFSPRLG

>*Homarus americanus* PK2

GADFAFSPRLG

>*Homarus americanus* PK3

SDFAFSPRLG

>*Homarus americanus* PK4

AYFSPRLG

>*Homarus americanus* PK5

SLFSPRLG

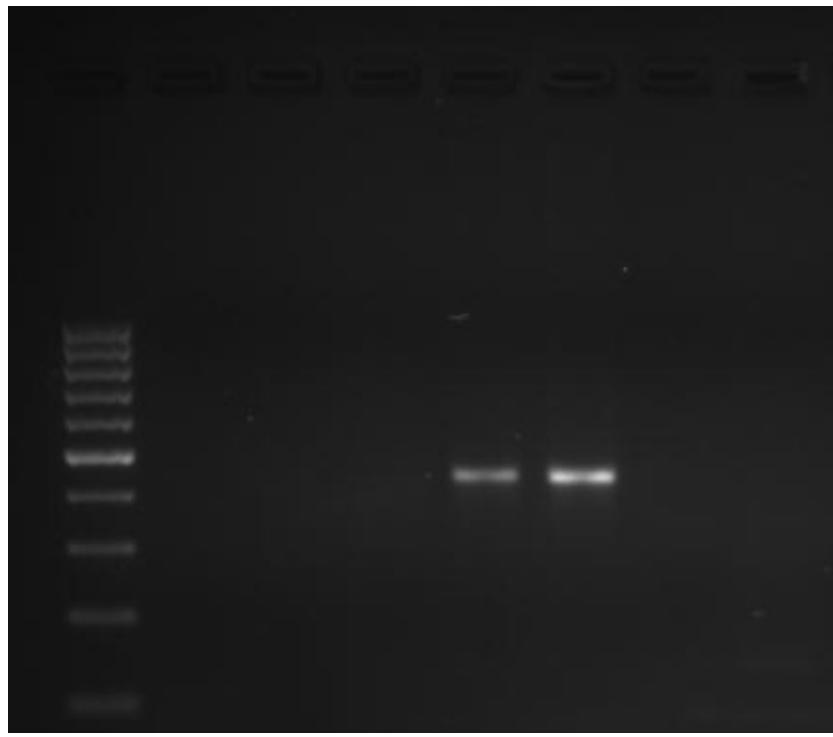
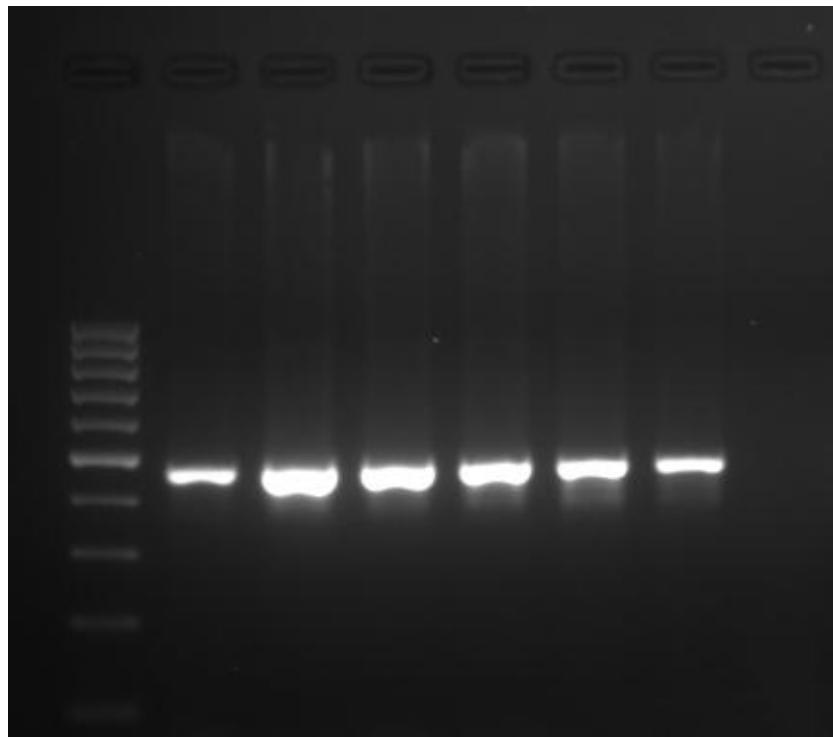
>*Cancer borealis* PK1

TNFAFSPRLG

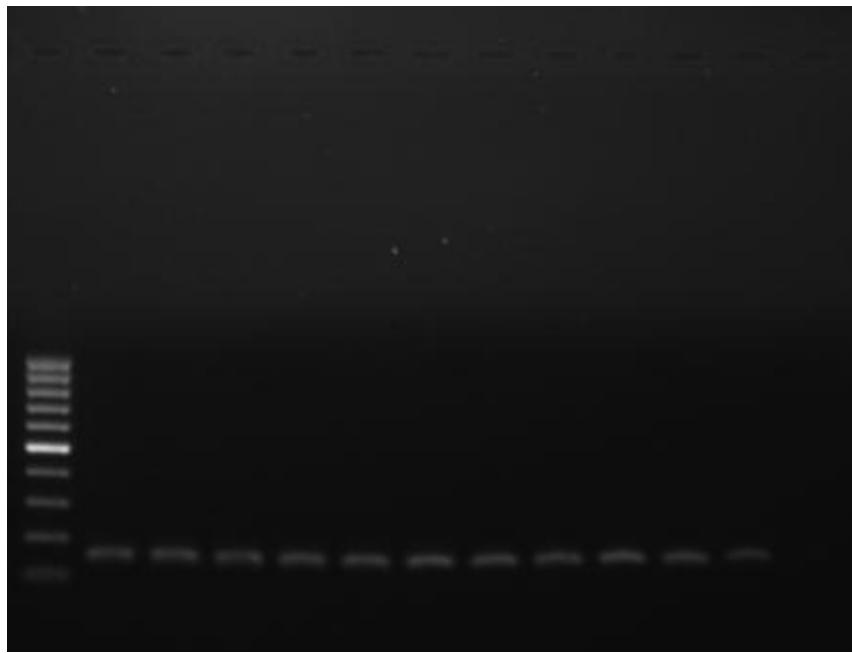
>*Cancer borealis* PK2

SGGFAFSPRLG

*MroPK*



Beta-actin



**Fig. S1. Full images of agarose gel showing tissue-specific expression of *MroPK* and *beta-actin* gene.**