

Supplementary Table S1.

The species and accession number for homologous sequence alignment.

Phylum	Species	Protein	Accession number
Vertebrata	<i>Homo sapiens</i>	PC4	NP_006704.3
	<i>Mus musculus</i>	PC4	NP_035424.1
	<i>Gallus gallus</i>	PC4	NP_001008479.1
	<i>Xenopus laevis</i>	PC4	XP_018122022.1
	<i>Oryzias latipes</i>	PC4	NP_001098187.1
	<i>Danio rerio</i>	PC4	NP_001002505.1
Urochorda	<i>Ciona intestinalis</i>	PC4	XP_002128161.1
Hemichordata	<i>Saccoglossus kowalevskii</i>	PC4	XP_002733216.1
Echinoderma	<i>Strongylocentrotus</i>	PC4	XP_001177085.1
	<i>purpuratus</i>		
	<i>Apostichopus japonicus</i>	PC4	PIK48924.1
Arthropoda	<i>Drosophila serrata</i>	PC4	XP_020808249.1
	<i>Bombus impatiens</i>	PC4	XP_003485628.1
Mollusca	<i>Pomacea canaliculata</i>	PC4	XP_025077372.1
	<i>Crassostrea virginica</i>	PC4	XP_022333594.1
Rotifera	<i>Brachionus plicatilis</i>	PC4	RNA25207.1
Nematoda	<i>Strongyloides ratti</i>	PC4	XP_024504874.1
Platyhelminthes	<i>Echinococcus granulosus</i>	PC4	XP_024353350.1

Cnidaria	<i>Stylophora pistillata</i>	PC4	XP_022799284.1
Placozoa	<i>Trichoplax sp. H2</i>	PC4	RDD43754.1
Porifera	<i>Amphimedon queenslandica</i>	PC4	XP_003389148.1
