

**Table S1: Peptide sequences employed to identify PdPV1 subunits.**

<b>PdPV1-1</b> (PV1-A1) Pdi67619_c0_g1	<b>PdPV1-2</b> (PV1-A2) Pdi37843_c0_g1	<b>PdPV1-3</b> (PV1-A3) Pdi14773_c0_g1	<b>PdPV1-4</b> (PV1-A4) Pdi37785_c0_g1	<b>PdPV1-5</b> (PV1-B1) Pdi118877_c0_g1	<b>PdPV1-6</b> (PV1-B3) Pdi33234_c0_g1
-	<b>XDEY(G)IMEINPPXXVXSQ</b>	<b>(S)QEYLLLDHIEASTQ</b>	-	<b>EXXMHDLVV</b>	
TFIDSPNK	VSVTPAEDMVDTMQK	SKPTPLQDMADLMEEIGVGWPK	SPQEIRDEMKDTEVLYSFK	QYDSEFK	MNLKDVNEITPVQLEER
SVEDYKDMLKEVDLVYSFK	VSVTPAEDMVDTMQK	QNLDDASNTGIDVLGGPGNAR	SPQEIRDEMKDTEVLYSFK	NKISFVQILR	GQTLQQYEAEK
SVEDYKDMLK	VSVTPAEDMVDTMQK	IYFFINIPR	YYIIEVKDSEK	YLAVVREPFTR	
SVEDYKDMLK	VSEQEILNMLSPLEIKHK	HLIVVKQNDLNLEK	MYIYINIPLEVDVDFASK	VYISSGFPPK	
SKSVEDYKDMLK	EGVDIWWGGPGEYHVKPEYLIR	ANGAYPPK	MVPVDMFDLAK	TLTLIKYTPSLK	
TLKFEGEPTQGAISHVQAYGEKIK	ATGVTPHKHFFVSSAR	TSVQYLTK	TKMVPVDMFDLAK	TLKQYDSEFKR	
TLKFEGEPTQGAISHVQAYGEK	KVSEQEILNMLSPLEIKHK	TMEQYMSEK	TLPLEGLTTQQR	TLKQYDSEFK	
FEGEPTQGAISHVQAYGEK	HFFVSSARDEVEVIGR	TMEQYMSEK	MYIYINIPLEVDVDFASK	GLFVKELGTSK	
EVDLVYSFKVVGSSR	LDPVGYMK		GFMEEEKDSFQK	CLNTALKDYPK	
EVDLVYSFK	HFFVSSAR		GFMEEEKDSFQK	GLFVKELGTSKYLAVVR	
INLPGDVISIAVGLNDK			DEMKDTEVLYSFK	LEISVPPSK	
INLPGDVISIAVGLNDKMR			DEMKDTEVLYSFK	KLEISVPPSK	
INLPGDVISIAVGLNDKMR			ALGAPSYQIVVEVNSLNR	NKISFVQILRLN	
IKTFIDSPNKGfyPLGR			AFYTNSSPPK		
SKSVEDYKDMLK			YYIIEVKDSEKSPQEIR		
MNESSYEK			KLEEVKLGK		
MNESSYEK			KLEEVKLGK		
			YYIIEVK		

Subunit names in parenthesis correspond to the general nomenclature adopted for Ampullariid PV1s followed by the unigene IDs taken from Ip et al. (2018). N-terminal sequences (bold) and internal aminoacid sequences of PdPV1 subunits were obtained by Edman degradation and MS/MS, respectively.

Figure S1: Subunit sequences of PdPV1.

**A**

**PdPV1-1** (Pdi67619\_c0\_g1)  
MLVATLILVALSAVFTNVVYASCQYIILDVNVKSKSVEDYKDMLEVDLVYSFKVVGSSRLLFVVRMNESSYEKLSKINLPGDVISIAGVDLNDKMR  
 TMGVDWKKWDELNPANLTLFERTLKFEGEPTQGAISHVQAYGEKIKTFIDSPFNKGFYPLGRTPFKAYFIISLFRCHQVGVGSAYALNLYNGPGD  
 STIKVEFLTKV

**PdPV1-2** (Pdi37843\_c0\_g1)  
MFVATSLLLALATLVATVASKDEYLIMEINPPKKVSESEQEILNMLSLEIKHKFRVTGTTKLWIVIKLDPVGYMKLDNITVPKGVSVTPAEDMVDTM  
 QKFGVFWPQASLTEENITLQFSHSYLDVTKQEQLTAMMVGYGEHVMVETLKSHPYQFYRATGVTPHKHHFFVSSARDEVEVIGREGVDIWGPG  
 EYHKPEYLIRI

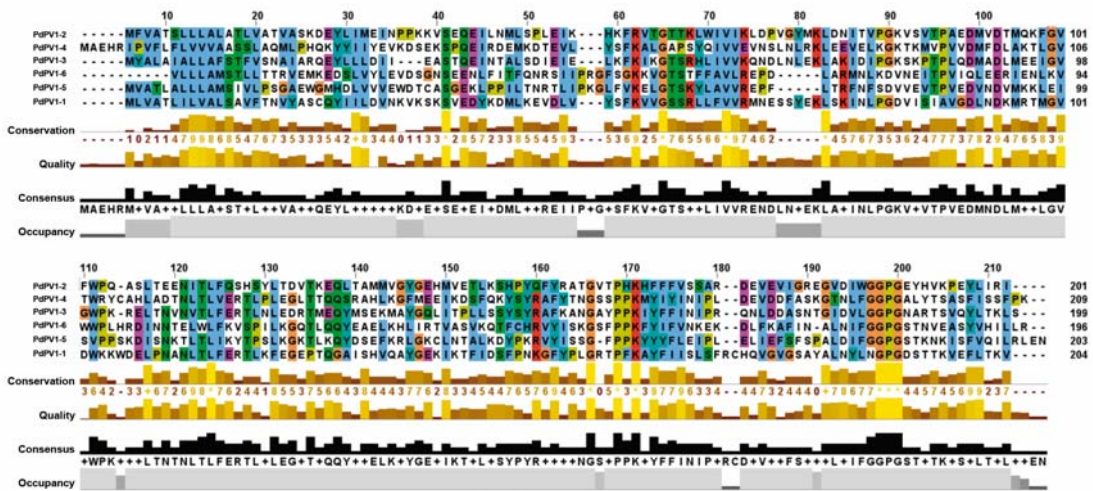
**PdPV1-3** (Pdi14773\_c0\_g1)  
MYALAIALLAFSTFVSNAIARQEYLLLDIIEASTQEINTALSDIEIELFKIKGTSRHLIVVKQNDLNLEKAKIDIPGKSKPTPLQDMADLMEEIGVGW  
 PKRELTVNVTFLFERTLNLEDRTMEQYMSSEKMAYGQLITPLSSYSYRAFKAANGAYPPKIYFFINIPRQNLDDASNTGIDVLGGPGNARTSVQYLT  
 KLS

**PdPV1-4** (Pdi37785\_c0\_g1)  
MAEHRIPVFLFLVVAASSLAQMLPHQKYIIEVVDKSEKSPQEIRDEMKTDEVLYSFKALGAPSYQIVVEVNSLNRKLEELVKGKTKMVPVVD  
 MFDLAKTLGVTWRYCAHLADTNTLTVERTLPLEGLTTQQRRAHLKGFMEIEKDSFKQKYSYRAFVYNGSSPPKMYIYINIPLEDDVDFASKGTLNFG  
 GPGALYTSASFISSFPK

**PdPV1-5** (Pdi118877\_c0\_g1)  
RQLATSSHIANLSSLEDCSRQSRMVATLALLLAMSIVLPSGAEWGMHDLVVVEWDTCASGEKLPILTNRTLIPKGLFVKELGTSKYLAVVREPFL  
 TRNFSDVVEVTPVEDVNDVMKKLEISVPPSKDISNKTLLIKYIPSLKGLTKLQYDSEFKRLGKCLNTALKDYPKRVYISSGFPPKYYFLEIPLIEF  
 SFSALDIFGGPGSTKNKISFVQILREN

**PdPV1-6** (Pdi33234\_c0\_g1)  
VLLAMSTLLTRVEMKEDSLVYLEVDGSEENLFTFQNRSIIPRGFSGKVGVTSTFFAVLREPDLARMNLKDVNEITPVIQLEERENLKVWVWPL  
 HRDINTELWLFKVPILKQTLQYEAELKHLIRTVASVKQTFCHRVIYSKGSFPPKFIYFVNKEKDLKAFINALNIFGGPGSTNVEASYVHILLR

**B**



A) Deduced amino acid sequences of the six PdPV1 subunits. Putative signal sequences are in italics and underlined. Potential phosphorylation sites are in bold underlined, potential N- and O-glycosylation sites are in bold and on black squares respectively. A conserved sequence is marked in bold red. B) Multiple sequence alignment of PdPV1 subunits.