

FIHEPWNASESVQRAAKCLIGKDYPLPMVNHAIASRANMERIKQVYQHLAKYRTPSGGCYEGDCTEKGGSAIAGVMTAAKVQHMNTSSMN.DSPSPTTILTSVNSSGNYMCR YIYEPWNAPESVQKAANCI <mark>V</mark> GVDYPKPMINHAESSRLNIERMKQV.QQLSHYRGLSLLASVPTIQEEAEPPMSDDSQASSSTGQASSPPHL <mark>S</mark> ITAPSTPPLSESSSPNSSPTAS	InsectJ
YIYEPWNAPESVQKAANCI <mark>v</mark> GVDYPKPMINHAESSRINIERMKQV.QQLSHYRGLSLLASVPTIQEEAEPPMSDDSQASSSSTGQASSPPHLSITAPSTPPLSESSSPNSSPTAS	FishE
FIYDPWNAPESVOKVAKCIIGVHYPKPMVNHAEASRINIERMKQIYQQLSCYRGLGLLATVPSNTANNEDSNGAGPSSGDTQERTHITVHTLPASSQSEFPAFAVSCG	FishD
YIYDPWNAPESVQKAAKCIIGVHYPMPMVHHAEASRLNIERMKQIYQQLSCYRGLGLLAMVPSNPNGNGENSTSLMGFKTGDMTKEVTTPSGYQMPPTSQGEWHGRTMVYS	
YIYDPWNAPEGIQKVAKCLIGVNYPKPMVNHAEASRLNIERMKQIYQQLSKYRGLGLLASVPSNSNGNGGLMGYAPGENVPSCSSSGNGGLMGYAPGENVPSCS	
YIYDPWNAPES <mark>I</mark> QKAAKCIIGVNYPKPMVNHAEASRLNIERMKQIYQQLSRYRGLGLLATVPSNPNGNGNGGLMGYSPGESISGCGSTGGAQLGTGDGHSVVQSCA	BirdF
YIYDPWNAPETVQKVAKCIIGVNYPKPMVNHAEASRLNIERMKQIYQQLSRYRGLGLLASVPSNPNGNGNGGLMSYSPGESMSGCSNNG	FrogH
YIYEPWSAPESVQKEAKCIIGIDYPKPIVNHAEASRMNIERMKQTYQQLSRYRGLCILASVPSCMEDLGGPMADSSQNISEAAPKQSLCN	FrogI
YIYEPWNAPESVQKAAKCIIGVDYPRPIVNHAETSRLNIERMKQIYQQLSRYRGLCLLASVPSCVEDLSHPVAEPGSSQ.AGSISNTGPRALSSG	MouseB
YIYEPWNAPESVQKAAKCIIGVDYPKPMVNHAETSRLNIERMKQIYQQLSRYRGLCLLASVPSCVEDISGPVPDSASGQ.GCS.TSTAVRLSQAE	
! !!*!**!**!**!*!!*!!**!!*!!*!!*!!**!*!!**!****	consensus

SNPP.AQSDHNGKVITYHQLLSGPDPRSALGGNGSGG	GDRGNAGVPDDT	rkhgdgtdgs	NHLMAGKESISQHQ	QSQLQHSHQAQ <mark>S</mark> LDQQS Q ENSNSV	ANS InsectJ
TSVPHTQRKRVRPSETPT					
QQLVNSVQPQPGYSGAG.MVGG					
QGDQQTSSIMTSQGFGNNGSTMCY	RQDAQ <mark>Q</mark> I	TG <mark>R</mark> GLHSS	IIQTSGKRHSEE.S	GPTTVS <mark>K</mark> V <mark>QRQ</mark> CSS.	FishC
GGNCSQGSGILHY					
LGDSHTGTSGIQQQGYCQASSILHY					
	'SHSDS <mark>Q</mark> QSYLN	1QA. <mark>R</mark> NPLHS	V.VSSGKRPNPEEE	CTQ <mark>S</mark> IGP <mark>KVQRQ</mark> SSH.	FrogH
VESPKRKRKVSEEEPHMKVRVLCA	ΔΡΕ <u>.</u>	.	TERP	PAK	FrogI
PASPKRKLEAAEEPPGEELTKRARVTEM	1PT		Q <mark>E</mark> PA	SKDS	MouseB
QAS <mark>P</mark> KRKHEGAEEPCPEELYKRAKVTGI	_PT		S <u>E</u> IS	8GK	BirdG
*	*	*	*** *	* * ***	consensus

 \overline{X} non conserved $\overline{X} \geq 50\%$ conserved