

YIYEPWNAPESVQKAAKCIIGVDYPRP <mark>I</mark> VNHAETSRLNIERMKQIYQQLSRYR	
YIYEPWNAPESVQKAAKCIIGVDYPKPMVNHAETSRLNIERMKQIYQQLSRYR	${ t BirdG}$
YIY <mark>EPWS</mark> APESVQKEAKCIIGIDYPKPIVNHAEASRMNIERMKQTYQQLSRYRGLCILASVPSCMEDLGGPMADSSQNISEAAPK	FrogI
YIY <mark>EPWNAPESVQKAANCIVGVDYPKPMI</mark> NHAE <mark>S</mark> SRLNIERMKQV.QQLSHYRGLSLLASVPTIQEEAEPPMSDDSQASSSSTGQASSPPHLSITAPS	FishE
YIYDPWNAPESIQKAAKCIIGVNYPKPMVNHAEASRLNIERMKQIYQQLSRYR	BirdF
YIYDPWNAPETVQKVAKCIIGVNYPKPMVNHAEASRLNIERMKQIYQQLSRYR	FrogH
YIY <mark>D</mark> PWNAPE <mark>GIQKV</mark> AKC <mark>LIGVN</mark> YPKPMVNHAEASRLNIERMKQIYQQLSRYR	MouseA
YIY <mark>D</mark> PWNAPESVQKAAKCIIGV <mark>H</mark> YPMPMVHHAEASRLNIERMKQIYQQLSCYRGLGLLAMVPSNPNGNGENSTSLMGFKTGDMTKEVTTPSGYQMPPTSQG	FishC
FIYDPWNAPESVQK <mark>V</mark> AKCIIGVHYPKPMVNHAEASR <mark>I</mark> NIERMKQIYQQLSCYRGLGLLATVPSN.TANNEDSNG.AGPSSGD.TQERTHITVHTLPASSQS	FishD
FI <mark>HEPWNASESVQRAAKCLICKDYPLPMVNHAIASRANMERIKQVYQH</mark> LAK <mark>YRTPSGGCYEGDCTEKGGSAIAGVMTAAKVQHMNTSSMNDSPSPTTILTSVNS</mark> SGNYMCRSN <mark>P</mark> P	InsectJ
*   *     *   *   * *   * *   * *   * *     *   * *     *   *	consensus

ALSSGPASPKRKLEAAEEPPGEEI	TKRARV <mark>T</mark> E	MPTQEPASKDS	MouseB
LSQAEQASPKRKHEGAEEPCPEEL	.YKRAKV <mark>TG</mark>	LPTSEISGKSL	BirdG
QSLCNVESPKRKRKVSEEEF	PHMKVRV <del>LC</del>	APETERPAKDF	FrogI
TPPLSESSPNSSPTASTSVPHTQ	RKRVRPSE'	TPSKQKTKVKHTSQARGLELKMDDQ	FishE
SVVQSCALGDSHTGTSGIQQQGYCQAS <mark>S</mark> ILHYAHGDNQQSHLLQA	AGRTALG <mark>TG</mark>	ISAGKRPNPEEETQSVGPKVQRQSTN	BirdF
ENVPSCSGGNCSQGSGILHYAHGDSQQTHSLKQ	GRSSAG <mark>TG</mark>	LSSGKRPSQEEDAQSVGPKVQRQSSN	MouseA
EWHGRTMVYSQGDQQTSSIMTSQGFGNNGSTMCYF	RQDAQQI <mark>TG</mark> RGLHSSII(	QTSGKR.HSEESGPTTVSKVQRQCSS	FishC
EFPAFAVSCGQQLVN <mark>S</mark> VQPQPGYSGAGMVGQAH	IKQTQRV <mark>RG</mark>	MTAFKR.HGEDRTTDFPSKIQRNDCN	FishD
AQSDHNGKVITYHQLLSGPDPRSALGGNGSGGDRGNAGVPDDTKH	IGDGTDGSNHLMAGKES:	ISQHQQSQLQHSHQAQSLDQQSQENSNSV	ANS InsectJ
*	**	** * * ***	consensus

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