



logo

NKFNDM	10320	.....MKAIIT	K	....FVT.....	KYGRQICSVAS.....	L...	AAIISVNS	CRGIYY	QPEE	PEGVK	KLAGKK.....		
BIJKPG	14450	.....MK..KEQ		....VIS.....	KLNAQGKKVLVI.....	V...	ATHYANVT	CPMMIY	QPKLK	ESVVK	KLRKF.....		
HGNADM	27685	.....MK..NK	K	....LTT.....	IYTKAIVKIARK.....	A...	AAMEAN	SCPCIGF	QPEI	PESVK	KLSIKK.....		
MDCENI	00055	.....MK..KTC		....LKD.....	KLLKGMAKTARQ.....	E...	AVKNANTA	CWVYHH	QDKL	PEKVKDL	RKF.....		
KDLBIP	03735	.....M..KDE		....LKK.....	LSLKLASKVILS.....	S...	AKTEAN	SCFFIGY	QPKLP	ENAK	KLRKF.....		
EAGELN	01575	.....		.....MKLIAKAAYE.....	V...	V...	AKKEAN	QCGFFFY	QKKLP	PGKVAAL	RKF.....	
OEMDBE	10990	.....		.....MNLLGG.....	LLLKLFSNFMAV.....	I...	GNAAKYNP	CASYLDE	PQVPE	L	KLDE.....	
CMOLJM	11405MENIFN.....	LFIKFFTITILEF.....	I...	GTVAGD	SV	CASYFDE	PEVPE	L	KLYEF.....			
FEJLPI	00875	.....MLTSLKT		....KKL.....	QMMQVISTMAIA.....	IATY	AMGTIGAD	CTFVIYE	PKMPE	AL	KNEMNK.....		
KGDHKK	15905	.....		.....MGILANFFT	K.....	I...	A..KNTS	SYCFVVF	PEPEV	PKSL	REE.....	
IELKKH	05580MN.....	FLFDTISNMISS.....	V...	S..QG	ASTFC	VLVVF	PEVP	PKSL	REE.....			
POBEHB	16565	.....MK.....		.....VTE.....	TMKDAALKVGM.....	M...	AKVDNT	NTTCLWINY	QPNPT	CIA	KMRQKGEI.....		
BBEHJI	01415	.....MKKKLTA		....ILV.....	YLAGAASVFALV.....	L...	GRISAARA	CAICFY	QPKVP	PDCMKE	KD.....		
OMBKGG	00295	.....MKKKKLIG		....ILV.....	YLASAASVFALI.....	L...	GRISAARA	CTYCY	YQPKVP	PDCMKQ	ED.....		
IEDBEK	17020	.....MLKKIKLIKKNANV		.....	RLSSSIASFALL.....	I...	TTIASNQR	CWYVMYEDSL	PKGHE	KLKKSHFY	F.....		
CECIIA	07125	.....MKIF	K	....IKK.....	ILALLISTVAML.....	I...	AKTSSNMCI	FWMLGEVPM	PKSLY	KR.....			
JOQHAA	00525	.....MKFSCDS		....VKA.....	KIMKTIIVTKSVK.....	A...	AEQNAN	SACLWLTN	TNQPT	P	KDLKKFRRF.....		
PMOCEP	06175	.....MKFSCDS		....VKA.....	KIMKTIIVAKSVK.....	A...	AEQNVN	SACVYIFN	QPTTP	P	KDLKKFRKF.....		
IHBLAH	10640	.....MKKNLNT		....VKA.....	KLMKSIIVRSVK.....	A...	AEQNAN	SACAWWLN	QLDPP	KDLRKL	RKF.....		
PKFKJB	10295	.....MKLNRNT		....VKS.....	KIMKTIIVSKSVK.....	A...	AEQNAN	SACIWVFN	QPEEP	PKELRKL	RKF.....		
CPAIGO	10695	.....MKKTRNT		....VRS.....	IIMKTIIVSKSVK.....	A...	AEQNAN	SACIWMFN	QPEEP	PKELKKL	RKF.....		
MDDLCH	05375	.....MKVTRNT		....VKS.....	KIMKTIIVSKSVK.....	A...	AEQNAN	SACLWFFN	QPEEP	KDLKKL	RKF.....		
EAGELN	06835	.....M.....		SSK.....	KFGKVL	SAAAG.....	V...	AKRGVNEA	CILYFY	QPVISQSMKEKL	RKDK.....			
DENMDO	11170MNTSS	KFSK.....	FLATKLSNLSTD.....	V...	AKTSTK	SCVPLFI	QPKMP	ES	L	KKDK.....			
NBMDEH	16040	.....MCKKA	K	....E.....	SILKLLADAGKK.....	A...	ALIGCG	SASLLGYH	QPKPE	EYMK	KKL.....		
NBMDEH	16070MCKKA	KE.....	SILKLLADAGKK.....	A...	ALIGCG	SASLLGYH	QPKPE	EFL	LDIAENAKNADNCI				
OBMPGG	07245	.....M.....		MKR.....	KMLELLAERSLR.....	N...	AEKSANAAS	QVFNY	QPKPE	KNISELIQKARK				
LBMBDI	03265	.....M.....	K	....MVK.....	KLASGMAKASLK.....	T...	AKSVCS	SASLFSYH	QPKPEK	SL	TKTK.....		
NLCFLM	05245MKFKV	KK.....	IIATAATKVCKI.....	S...	AESVSA	SACWAGLF	QPKPE	PKCL	K	KDK.....			
NOEPCL	18660	.....MKKLM	S	....IAK.....	KASTALAALALV.....	V...	ATTSVPSA	CYHWFA	CHIEPE	KL	RNLVNNK.....		
DENMDO	16440	.....MKKTL	L	....N.....	KAMALFAGLFTF.....	F...	ALATSASA	CVWCY	YQPEEP	KAL	REE.....		
NLCFLM	04095	.....MKNIL	K	....I.....	LSLKFTSNICTR.....	M...	ALSVSA	SACHWSAY	QPEEP	PKCL	LDIKNH.....		
IAJDHK	04775MKKKNL		WTLAAAVATV.....	F...	ATTMAT	SACIYFFY	QPEEP	ES	L	REK.....			
DDGPMO	12130	.....MKKKV		.....	LMSLAISTL.....	V...	ASLVATS	SACYWCY	FQPEEP	KSL	REE.....		
NLCFLM	02615	.....MKNRI		.....	LMSIATLATI.....	I...	ASIMATS	SACWYGHY	QPEEP	PKCL	REE.....		
BAPACM	19580	.....MKNKV		.....	LMLVATFATV.....	I...	ASIVATS	SACIWSHY	QPEEP	PKCL	RD.....		
FJFNPG	12830M.....		NTQF.....	KAGELIKLVLDL	R.....	T...	LSSSAN	STSCSFVY	QPKAP	KKLEMYNRRS	QSNVRVK.....			
OBMPGG	10480MKT	I	K.....	TIIC.....	KISP	AIACFTL.....	A...	LSINAN	SSTCFVMY	QPKAP	AKL	DEYKKIK.....		
CECIIA	03305	.....MMKNKSI	K	....KKVAK.....	VLIN....LGET.....	H...	ANEF....	STLLGFYE	PKVSD	L	KKKEK.....		
PHFKJA	15710	.....MKKENV	K	....EYVGK.....	LVLY....LAEK.....	Y...	ANTKAY	SL	CRGKAYBPKIP	SKLR	REGSYHEKNK.....		
NKANJB	12370MNK	KQNI	AV.....	TTLK....LIES.....	V...	ARMKANCL	CIGRFYE	PKVP	SKL	KK.....			
IDPMP	16520	MYLLEE	SGMSKR.....	QIMAK.....	KVLQ....ATEY.....	V...	AKKKANCL	CFGRFY	E	PKVP	QKL	KK.....			
IEDBEK	01220ML	KKTVA.....	GYLENVADFT.....	VDVLNEGIC	FFLH	QPPFP	ENAR	KMKHEK	EEEEENGKNSRFTN			
BAPACM	07440MKSMK	KQII	SIYEKVS	KIIDLICEFSMR.....	V...	GERSIGTCSM	FGAYBPKIP	VEL	L	DEDN.....			
ILLMLJ	08595MKEKMY	K	VL	SHLFQY.....	V...	GTKQLVMC	CHGILFET	KIP	DEL	KSKD.....			
NNIJIM	05930	.....MKE		....QSKAK.....	ETLLKCAQKVAERE	VLN.....	NMSN	WPNCGGIIH	QPKRP	KESIVL	KDKAVGE.....		
MGCJHI	08790	.....MK	K	....AEKQ.....	FLKVVKIVAKK.....	Q...	TIDPRFPE	CISFYH	QPKRP	KK.....			
KCEDFE	13615	.....MNK		....NVER.....	IVLEKVERL	TRKNANAT.....	QSYTDL	PKCTFLIH	QPKRP	KHQ.....			
GACLNI	17395	.....MKLL	K	....KIKMN.....	PSVMNLFVMA.....	I...	MVYAAN	TRCAWIGH	QPKMP	EDVRN	FKRM.....		
CCKMEK	03370	.....MRKK	K	....V.....	LAKGLERLSRL.....	A...	VRKT	VETRCMMYGH	QPLVP	KGMS	SFLSSK.....		
NABNIK	09950	.....MK	K	....YFLE.....	ILKRLSTLARA.....	T...	AVLSAN	TTSWWNAY	QPEMDNDV	KNLKKL			
IELKKH	00935MEK	IALK.....	LLKNMSELSFR.....	T...	AVLSAN	SASSWIAH	QAKEP	QAL	Q	KLKK.....			
MDCENI	11915	.....MKEKMK	K	....ALIR.....	FGPILTFIALQ.....	M...	GIFTANASSC	FSVY	QPKPE	PEGMA	KYKK.....		
AJBPED	04545MKT	TMK.....	PIVK.....	CGTALASLALK.....	V...	GVSTNKQA	CIFWYN	QPKPK	GIS	K	FRKP.....			
KDLBIP	05110MMIKFKN		YLRSN.....	VSLLKVMNV	CALA.....	L...	AVHTFNIT	CFYFHH	QPEVP	VD	AKRFRKF.....			
NABNIK	14550	.....MK	K	....DITS.....	TVLEKVGSLAVS.....	A...	IKLSAN	STCTFLNH	QAKMP	QDIKN	FKKK.....		
NABNIK	14515MK	KDVMS.....	TLLEGVGS	LAMS.....	T...	LKLSAN	STSAVL	SHQPKLP	KN	L	NQFKKSK.....		
NABNIK	02860MK	KNFKS.....	LALGVGR	LAVN.....	T...	LKLSAN	STSSFLSH	QPKMP	KNVQ	K	FKKK.....		
NABNIK	11045MK	KSKSS.....	ALLEKVGSLAIS.....	T...	MKLSAN	STSGFISH	QPKLP	KDVQ	K	FKKK.....			
NPEPEM	11325MSKFK	KENVM.....	KVINC...LALV.....	L...	VAASAN	SA	CFFYFH	QPEFP	KAAD	K	FRQIGND.....		
ECBEJG	06760MKQG	KNIVA.....	KILKG...IARK.....	S...	VNSGMD	SR	CMFLYH	QPKMP	SGIK	KI.....			
MCELEA	01295MKRE	KTFIA.....	KILRE...IARK.....	S...	VKVSSD	SR	CMYIMH	QPKMP	SDVGRIQ				
MOMOOA	00260MKKE	KTFIA.....	KMLRE...IARE.....	S...	VKASNG	SR	CMYLMH	QPKRP	SDAG	K	IQ.....		
NGJOPP	02845MKS	KNL.....	NQPA.....	KVLAN...LSLK.....	L...	GKMSAD	SA	CCYIYH	QPKMP	EAL	K	MMKKL.....		
KDLBIP	03960	..MEVVT	MKSNT.....	NNTA.....	KLMEK...LARK.....	S...	LELAAE	SR	CMYIYH	QPKMP	EAL	K	QFKK.....		
JMKFKC	07050MNMKN	DVVA.....	NVLEK...VARA.....	T...	AKATAD	TR	CMYFHH	QPKMP	AD	L	K	KLNK.....	
ACJJKH	07830MNMK	KNISA.....	KMLEK...VART.....	T...	AKATAD	SR	CVCILH	QPKMP	AD	L	K	K	FNK.....
consensus			*				*	*	*	*		***	*	*	*

 non-conserved
 ≥ 50% conserved