

humanCLN3	MGGCAGSRRRFS	DSEGEETVPEPRLPLLDH	QGAHWKNAVGF	WLLGLC	NNFSYVV	MLSAAH	60			
mouseCLN3	MGSSAGSWRRLE	DSEEREETDSEPQAPRL	DSRVLWKN	AVGF	WILGLC	NNFSYVV	MLSAAH 60			
zebrafishCLN3	MDRSVNSG-TAS	TSDEG-----	RCQRWRNC	VAFWLL	GLC	NNFAYVV	MLSAAH 47			
drosophilaCLN3	MTATKQQEAEAE	HDPQVVVTPGDAS	RSSSRQDRGL	WRDLT	SYWILGLC	NNYGYVV	MLSAAH 60			
celegansCLN3	-----	MDVASGGGR	PPRNS-----	VAFWLL	GLC	NNFAYVV	MLSAAK 37			
yeastCLN3	-----	MSDKSHQI	YCYFWLFGL	INNVLY	VVIL	SAAV	31			
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humanCLN3	DILSHKRTSGN	QSHVDPGPTPI----	PHNSSSRF	DCNSV	STA	AVLLADIL	PTLVIKLLA 115			
mouseCLN3	DILKQEQASGN	QSHVEPGPTPT----	PHNSSSRF	DCNSI	STA	AVLLADIL	PTLVIKLLA 115			
zebrafishCLN3	DILQ-KQESQ	NTTAPSPAPNGT	NIEFRNSS	SNSSRY	DCNP	VSTA	AVLLADIL	PTLLIKLTA 106		
drosophilaCLN3	DI IKQFNPN	DES-----	EESSSGR	NCHLV	STGA	ILLADV	LP	SLFVKILM 104		
celegansCLN3	DILEKDAKH	IEKPC-----	REHVTT	TRECQ	MMSTG	SVLLAD	IIPALLIKITA 83			
yeastCLN3	DIVG-----					PTLPK	SLVLLADIF	PSLAIKLCS 58		
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humanCLN3	PLGLHLLPY	SPRVLVSGICA	AGSFVLVAF	SHSVGT	SLCGV	VFA	SISSGLGE	VTFLSLTAF 175		
mouseCLN3	PLGLHLLPY	SPRVLVSGVCS	AGSFVLVAF	SQSVGL	SLCGV	VLAS	SISSGLGE	VTFLSLTAF 175		
zebrafishCLN3	PFIYHKVPY	GFRVLVCFFT	AVVSFLM	VSFSST	ISMSI	IGVIF	ASVSSGL	GELSFLSLSVF 166		
drosophilaCLN3	PFFPFWVNF--	RIALAVAF	SAAGFLLV	GFANA	EWMA	LLGVI	ITSASS	GIGETTFLAYSSR 162		
celegansCLN3	PMFIHRVP	FGIRHSIV	VLLQASS	FLIVGI	SDSTA	LALFG	VVLAS	FGSGLGEISYLALSSN 143		
yeastCLN3	PFFIDRIK	YSYRIW	SLITM	SCLGM	FLV	SFKN-L	FVCLLG	ISFASISSGFGE	VTFLQLTHY 117	
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humanCLN3	YPRAVISW	SSGTGGAGLL	GALSYLGL	TQ---AGL	SPQQT	LLSMLG	IPALLL	ASYFLLLT 232		
mouseCLN3	YPSAVISW	SSGTGGAGLL	GSLSYLGL	TQ---AGL	SPQHT	LLSMLG	IPVLLL	ASYFLLLT 232		
zebrafishCLN3	FSSDVL	SGWSGTGA	AGVAGALL	YSALTQ---AGL	TPQVT	LWIMLV	VPVILAV	SYFVLLV 223		
drosophilaCLN3	YNKNVIST	WSSGTGGAG	VIGSLSYA	SLRS---L	DFSPR	DTMLIM	LIFPAIE	AFWLLLR 219		
celegansCLN3	YPSTVVA	SWSSGTGG	AGLIGAS	AYALLT	DSKLLA	ISP	KHTMFIM	LTLPALFSVSYWSILK 203		
yeastCLN3	YKQISLN	GWSSGTGG	AGIIGGA	SYMFLT	S--IFK	VPVKLT	LLVFSLL	PF	AFLFYFKLESN 175	
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humanCLN3	SPEAQ-----	DPGGEEEEAE	SAARQPLIR	TEAP---ESK	PGSS-----	SSL	SLRER	274		
mouseCLN3	SPEPL-----	DPGGENEAE	TAARQPLIG	TETP---ESK	PGAS-----	WDL	SLQER	274		
zebrafishCLN3	FPHSFQ	WRCPEVSQ	SLSRGLN	SEERRAL	IEEDT	DTDE	DSEPA	LEDQDDKHIGPLTFTEK 283		
drosophilaCLN3	RPQ-----	VDILPVT	TVEST	EVLIS-----DEK	P-----	LVGF	KEK	250		
celegansCLN3	IPHSVQ-----	RAHFLQ	PSTWLVTG	DFIPADD	MRREE	VEEEEE	G-----	LLGIRED 248		
yeastCLN3	DTNLT-----	YQSLQQ	IDEAEDDQ	LVPFP	VAF	THTNAS	QSLYSTR--QHILQ	TVKR 224		
	..			::			:	:		
humanCLN3	-----	WTVFKGLL	WYIVPLV	VVYFAEY	FINQGL	FELL	FFWNT-----	311		
mouseCLN3	-----	WTVFKGLL	WYIIPLV	LWYFAEY	FINQGL	FELL	FFRNT-----	311		
zebrafishCLN3	-----	KYIIKGLL	KFIFPLA	LWYFAEY	FINQGL	MELLY	F	PDSD----- 320		
drosophilaCLN3	-----	LFYIKHL	FKYMLPL	CLVYFFE	YFINQGL	FELVY	FED-----	286		
celegansCLN3	RENSVDV	TSRRRQT	STTLER	VLPLLK	FMIPLI	SVYLA	EYYINQ	GLLELLEFDCSHG---- 304		
yeastCLN3	-----	LRRLV	F	PFYMPV	PLTTVY	LFEY	LINQAV	APTLLFPINGDERSK 265		
				::	::.*	**:	** *	***.: :	*	
humanCLN3	-----	SLSHAQ	QYRWYQ	MLYQAG	VFA	SRSSLR	CCRIR	FTWALA--LLQCL	NLVFLLADVW 364	
mouseCLN3	-----	SLSHAQ	QYRWYQ	MLYQAG	VFA	SRSSLQ	CCRIR	FTWVLA--LLQCL	NLALLADV 364	
zebrafishCLN3	-----	RLSHAQ	QYRWYQ	TVYQIG	VFVSRT	SLFC	KIRKIF	LMS--LLQ	CANAVLLVFAVY 373	
drosophilaCLN3	-----	IFLDK	DSQYRW	LNVDYQ	IGVFIS	RSSV	NLFQ	LDKIWLMS--IFQ	FVNVVYFLTEVI 340	
celegansCLN3	-----	FSMS	SESQYR	WFQVTY	QLGVFIS	RSSSN	YVTIPT	QYLKSLAVLQIF	NAGFFTITAI 360	
yeastCLN3	SMPFFF	HKYRDI	YVTYGT	LYQLGV	FISRS	FGHLM	MRSLY	ILA--FLQ	GVNLCITVLQSW 323	
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humanCLN3      FGFLPSIYLVFLIILYEGLLGGAAYVNTFHNIALETSDEHREFAMAATCISDTLGISLSG 424
mouseCLN3      LNFLPSIYLIIFIILYEGLLGGAAYVNTFHNIALETSDKHREFAMEAACISDTLGISLSG 424
zebrafishCLN3  YQFLPNISVVFVIIAFEGLLGGAAYVNTFFFIREESVEREREFAMATATVGDSLGIASFSA 433
drosophilaCLN3 WWYTPSIWIVFAIVLWEGLLGGAAYVNTFYRMSKEISPERQQFAMAMVVQSDSYGIALAG 400
celegansCLN3   YSFLPHILIAFLVILFEGLLGGAAYVNTFRAVHKEIPADSREFSMGVVSISDTIGIVFAG 420
yeastCLN3      FYVTHSPWAVMILIFYEGFLGGASYVNTFLNILEQEDPDETEFAMGAVSIADSFGVFLAA 383
               :  ::  :*:***.:*****  :  :           :*: *  .  .*: *: :.

humanCLN3      LLALPLHDFLCQLS----- 438
mouseCLN3      VLALPLHDFLCHLP----- 438
zebrafishCLN3  AAAFPVHHYFCSL----- 446
drosophilaCLN3 FLAIPVHNAICGLPAAARSLVW--- 422
celegansCLN3   FLAMPVHNRICSMMPM----- 435
yeastCLN3      LLGLGLEPKLCRHQIADDRPWCRME 408
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