



		H6	EL3	H7	CT		
1a	Humanm1	---LNQSKNNIPRARLKTLMKTVAFATSFVVCWTPYVVLGIWYWF	DEPML	--NRLSDPVDNHFHFLFAFLNCFDPLIYGYFSL	-----	328	
	Mousem1	---LNQSKNNIPRARLKTLMKTVAFATSFVVCWTPYVVLGIWYWF	DEPML	--NRVSEPVNHFFFLFAFLNCFDPLIYGYFSL	-----	327	
1b	Coelacanth	---LKRSKNNIPQARLKTLMKTIAFATSFIIICWAPYVVLGIWYWF	PEIIL	--RWVSDPVYHFFCLFGLLNCFDPLIYGYFSL	-----	329	
	Xenopusn2	L--ARSKNDLISKARLKTLMKTLVIVVSVFVVCWTPYVVLGIWYWF	QPEMI	--NQTPEYLNHSLFLFGLLHCTDPLVYGLYTPSFKEDLRSWIRRVSSLLSRRAKNSKQLAGSELNPKDLTSME	-----GPMSTAVTMQSVF	375	
1c	Anolen2	L--ARGKDDHISKARLKTLMKTLIVVASFVVCWTPYVVLGIWYWF	QPEMI	--RQMPPEYVNHFFFLFGLLHCTDPLVYGLYTPSFRDMKMKLGLKLTLLTHQEK	----LAVIVELKNKEDRE---QGRSSSVSNGGTMHTAF	373	
	Chickenn2	L--VRSQNDHISKARLKTLMKTLIVVASFVVCWTPYVVLGIWYWF	HPAMI	--QRMPEYINHSFFFLFGLLHCTDPLIYGLYTPSFRDVLCLRGIEAAISQHVHR	----KPIVSEKTTKDGVDV--NGQVTSGGSNGTTVNTVC	377	
2a	Coelacanth	L--ARSKDHFSKARLKTLMKTLIVVASFVVCWTPYVVLGIWYWF	QPEMI	--QKTPEYVNHFFFLFGLLHCTDPLIYGLYTPSFRDMMCLKRIDRGIHRHKNNSYNQSRDFMLNLKDNLNGEAFDNIKVGLTNGTMVQSIF	-----	337	
	Zebrafishn3	L--RRSGTDMIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	QPEML	--TVTPEYVHHLFVFGNLNSCCDPVIYGLYTPSFRDLIRF	----CCCR--HHKNTPRPQOPRHT	377	
2b	Zebrafishn3b	L--RRSGADMIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	QPEML	--QVTPEYVHHLFVFGNLNCCDPVIYGLYTPSFRADITS	----CFS--RRNQNSPKSLDRLSARRGGASGEAESDPGSGDQPSGQTA	377	
	Tetraodon3b	L--RRSGGDVIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	HPAMI	--QHTPEYVHHLFVFGNLNCCDPVIYGLYTPSFRADLADVVACCA	---RAADASPRSDRLSAPAGGAGVDMESDLSSNQSSNA	367	
2c	Fugun3b	L--RRSGRDVIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	HPAMI	--QHTPEYVHHLFVFGNLNCCDPVIYGLYTPSFRADLADVMACCCG	---HRAADASPRSDRLSAPVGGAAEMESDLSSNQSSNAG	367	
	Medakan3	L--RRSGTDIIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	QPEML	--RVTPEYVHHLFVFGNLNCCDPVIYGLYTPSFRADLAA	----CCR--WSKESSPMSLNLSTRRGPSSGHEPQ	363	
2a	Tetraodon3	L--RRSGTDIIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	QPEML	--RVTPEYVHHLFVFGNLNCCDPVIYGLYTPSFRADLAA	----CFR--QKRIKASARLPPQAGDEHTNQ	353	
	Fugun3	L--RRSGTDIIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	QPEML	--RVTPEYVHHLFVFGNLNCCDPVIYGLYTPSFRADLAA	----CFH--QKRRA--ARAPPNRARS	354	
2b	Coelacanth2a	A---LRCTRNYIPVVRMKTLMKTLVLI	STFIVC	WTPYVVLGIWYWFPEMINNQTVPESINHLFVFGLNSSLDPLVSRAGYLKIKRRAVSNT	-----	411	
	Zebrafishn1	---LRRSHSNIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	PEDEL	--EETVSHSLTHLFI	FGLFNALDPLIYGLFTIHFRLKGLKRYCRSAVLT-ESEN-NSIITGSLKCSFSPFRMCRVTSQGTGDPKONTSTVGEEDKAA	400	
2c	Medakan1	---LRRSHNNIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	FPEKM	--EETVSHSLTHLFI	FGLFNALDPLIYGLFTIHLRQARRRQISNAQT-ELEN-NSCLMQMSCLSAHRQNVSSGLSKHT-EEINDNSSTKNASSPIS	390	
	Tetraodon1	---LRRSHNNIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	FPEKM	--EETVSHSLTHLFI	FGLFNALDPLIYGLFTVRLHQLKRCRRTANTOT-DLEN-NTCLVHMTRFSSORHYASGAHETHK-EMIDD-TCTNCSRPIIP	389	
2a	Fugun1	---LRRSHNNIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	FPEKM	--EETVSHSLTHLFI	FGLFNALDPLIYGLFTIHLHQLKRCRRTANTOT-DLEN-NTCFVHMTRLSHLLHNASGGYHTDK-EEVND---	386	
	Medakan1b	---LRCCKNNIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	FPEKM	--EETVSHSLTHLFI	FGLFNALDPLIYGLFTIRFRGRRKCYGGATATL-SLES-KVVTAEAVKRSDDASASRGD-AGEKDNNSARTERQSSGGNI---	398	
2b	Fugun1b	---LRCCKNNIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	FPEKM	--EETVSHSLTHLFI	FGLFNALDPLIYGLFTIRFRGRRKCYGGATATL-SLES-KVVTAEAVKRSDDASASRGD-AGEKDNNSARTERQSSGGNI---	400	
	Tetraodon1b	---LRRSRDNIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	FPEHL	--EGKVSLSLTHLFI	FGLFNALDPLIYGLFTIRFRGRRKCYGGATATL-SLES-KVVTAEAVKRSDDASASRGD-AGEKDNNSARTERQSSGGNI---	341	
2c	Medakan2	---LRCCKNNIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	FPEKM	--EETVSHSLTHLFI	FGLFNALDPLIYGLFTIHFRLKGLRFFYGNAAEAT-DADI-NTVVVTGSFTCAASSLSLKRKLWHPQERLVLHRDNH-SKADLPS	390	
	Fugun2	---LRRSKNNIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	FPEKM	--EETVSHSLTHLFI	FGLFNALDPLIYGLFTIHFRLKGLRFFYGNAAEAT-DADI-NTVVVTGSFTCAASSLSLKRKLWHPQERLVLHRDNH-SKADLPS	413	
2a	Tetraodon2	---LRRSRNNIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	FPEHL	--EGKVSLSLTHLFI	FGLFNALDPLIYGLFTIHFRLKGLRFFYGNAAEAT-DADI-NTVVVTGSFTCAASSLSLKRKLWHPQERLVLHRDNH-SKADLPS	413	
	Zebrafishn2	---LRRSKNNIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	FPEHL	--EGKVSLSLTHLFI	FGLFNALDPLIYGLFTIHFRLKGLRFFYGNAAEAT-DADI-NTVVVTGSFTCAASSLSLKRKLWHPQERLVLHRDNH-SKADLPS	405	
2b	Xenopusn1	---LRRSKNNIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	FPEHL	--EGKVSLSLTHLFI	FGLFNALDPLIYGLFTIHFRLKGLRFFYGNAAEAT-DADI-NTVVVTGSFTCAASSLSLKRKLWHPQERLVLHRDNH-SKADLPS	398	
	Chickenn1	---LRRSGSNIPRARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	CPRAM	--QQKVPVPSLSHILFI	FGLFNALDPLIYGLFTIHFRLKGLRFFYGNAAEAT-DADI-NTVVVTGSFTCAASSLSLKRKLWHPQERLVLHRDNH-SKADLPS	386	
2c	Coelacanth2b	---LRRSKDHIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	SPDIA	--EMVSHSTHMLFI	FGLFNALDPLIYGLFTIHFRLKGLRFFYGNAAEAT-DADI-NTVVVTGSFTCAASSLSLKRKLWHPQERLVLHRDNH-SKADLPS	416	
	Humanm2/n3	FA-LRRSFDNRPRVRLRALRLALLVLLT	FILCWTPYVVLGIWYWF	SPSMLSE	--VPPSLSHILFI	FGLFNALDPLIYGLFTIHFRLKGLRFFYGNAAEAT-DADI-NTVVVTGSFTCAASSLSLKRKLWHPQERLVLHRDNH-SKADLPS	405
2a	Xenopusn3	---LRRSSNNIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	SPSMLSE	--VPPSLSHILFI	FGLFNALDPLIYGLFTIHFRLKGLRFFYGNAAEAT-DADI-NTVVVTGSFTCAASSLSLKRKLWHPQERLVLHRDNH-SKADLPS	400	
	Coelacanth2c	---LRRSYNNIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	SPSMLSE	--VPPSLSHILFI	FGLFNALDPLIYGLFTIHFRLKGLRFFYGNAAEAT-DADI-NTVVVTGSFTCAASSLSLKRKLWHPQERLVLHRDNH-SKADLPS	394	
2b	Lamprey1	---LRRSNNIPKARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	DRSIVSRKVVPHFVEEMSLT	FGLLNALDPLIYGLYFAAHV	REVRRCCRWPRTAADRDSSTPVTGFRYSASSVRSRRVFPACGEQPEATGAHPTPATRLLQR	407	
	Lamprey2	---CNHGPTLSRARARTLCMTALIVSFFVVCWTPYVVLGIWYWF	CIPAMASEDHI	PEAVSHGLFL	FGLLNALDPLIYGLYFAAHV	REVRRCCRWPRTAADRDSSTPVTGFRYSASSVRSRRVFPACGEQPEATGAHPTPATRLLQR	411
2c	Lamprey3	GVTLRCSNNIPRARLKTLMKTLIIIVSFFVVCWTPYVVLGIWYWF	WPSALDQGTLP	PEYINHIVFL	FGLLNALDPLIYGLYFAAHV	REVRRCCRWPRTAADRDSSTPVTGFRYSASSVRSRRVFPACGEQPEATGAHPTPATRLLQR	411
						FSGQWD-GTLCYRYCC-----CYCCWSSSSST-----RRRRSGTTTATTSSRGTMAS	422

1a	Humanm1	-----				
	Mousem1	-----				
1b	Coelacanth1a	-----				
	Xenopusn2	-----				
1c	Anolen2	-----				
	Chickenn2	-----				
2a	Coelacanth	-----				
	Zebrafishn3	-----				
2b	Zebrafishn3b	-----				
	Tetraodon3b	-----				
2c	Fugun3b	-----				
	Medekan3	-----				
2a	Teteaodon3	-----				
	Fugun3	-----				
2b	Coelacanth2a	-----				
	Zebrafishn1	DGKTKE		406		
2c	Medakan1	VSRI		394		
	Tetraodon1	VSKM		393		
2a	Fugun1	VSKM		390		
	Medekan1b	-----				
2b	Fugun1b	-----				
	Tetraodon1b	-----				
2c	Medakan2	PKGNNLLAESKAVRSLNOSRESIL		415		
	Fugun2	PFORFEISPTIKTNNNSNI		413		
2a	Tetraodon2	NLOGCSTOKLHLCST		420		
	Zebrafishn2	TKNALYSSGVATVE		412		
2b	Xenopusn1	GLNSSCL		395		
	Chickenn1	SAL		419		
2c	Coelacanth2b	-----				
	Humanm2/n3	-----				
2a	Xenopusn3	SGKCEQCRGKIMESFM		410		
	Coelacanth2c	EINCDLCKRNAENEM		427		
2b	Lamprey1	GCLVAGVPVNRAAGMAAGAKAFCDASGGGAGGGGGGEGCTEKLVCPESCI		460		
	Lamprey2	RSYLSSSVSAFVDFVRGHWSRRPHGDARAAAARVPSPTTVYVLSQLCDPHATQG		466		
2c	Lamprey3	ELEPQPTLATASVDLSAPLQRQGCPPVQ		450		