File: /media/morpheus/disk1/fst/pep_msa/FAM2444BTse Feb 1 12:09:07 2022 Page 1 of 5

Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Bos_taurus Equus_caballus Canis_lupus_familiaris Heterocephalus_glaber Pavo_muticus Pavo_cristatus Gallus_gallus Chelonia_mydas Rhinatrema_bivittatum Latimeria_chalumnae Xenopus_tropicalis		28 60
Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Bos_taurus Equus_caballus Canis_lupus_familiaris Heterocephalus_glaber Pavo_muticus Pavo_cristatus Gallus_gallus Chelonia_mydas Rhinatrema_bivittatum Latimeria_chalumnae Xenopus_tropicalis	***:.:	29 29 29 29 29 29 29 38 38 38 40 88 112
Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Bos_taurus Equus_caballus Canis_lupus_familiaris Heterocephalus_glaber Pavo_muticus Pavo_cristatus Gallus_gallus Chelonia_mydas Rhinatrema_bivittatum Latimeria_chalumnae Xenopus_tropicalis	#*::*: **::*: : GGLLMGYSPAGGATSPGVYQVSIFSPSAGASE	78 78 78 78 78 78 78 96 96 97 98 146

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Mus musculus		AREGI.PP	EEPSTVGIJSP-		· <mark>EGL</mark> <mark>GLG</mark> L <mark>G</mark>	v 113
Rattus norvegicus	LKRGPGLG-	AREGIPP	EEPSTVGLVSP-		· <mark>EGL</mark> <mark>GLG</mark> LG	V 113
Homo_sapiens	LKRGPGLG-	AREGI.PP	EEPSTVGLLGP-		· <mark>EGP</mark> <mark>GLGLG</mark>	V 113
Pan_troglodytes	I.KRGPGI.G-	AREGI.DD	EEDSTVGLLGD-		·EGP	V 113
Macaca mulatta	I.KRGPGI.G-	AREGULD	EEDSTVGLLGD-		·EGLGLGLG	V 113
Callithrix_jacchus	I.KRGPGI.G-	AREGULD	EEDSTVGLLGD-		· <mark>EGL</mark> <mark>GLGLG</mark>	V 113
Bos_taurus	I.KRGPGI.G-	APECISD	EEDDTVGLLGD-		· <mark>EGL</mark> <mark>GL</mark> KLG	V 113
Equus_caballus	LKRGPGLG-	AREGI.PP	EEPYTRGLLGP-		·EGLGLGLG	V 113
Canis_lupus_familiaris					·EGLGLGLG	
Heterocephalus_glaber	TKRGPGI.G-	AREGI.PP	EEDSAVGLLGD-		· <mark>EGL</mark> <mark>GLGL</mark> S	v 113
Pavo muticus					·TFEDGLLVDELSLC	
Pavo_cristatus	DKRTHWGG-	GVDSKRDGGLG	OAALEDDD		·TFEDGLLVDELSLC	G 138
Gallus_gallus	PKRTHWGG-	GVDSKRDGGLG	OSALEDDD		·TFEDGLLVDELSLC	G 138
Chelonia_mydas	PKRAHWGGT	GAFARODGIPG	EI.HPGODAPDA -		TALEDGLLVEELSLC	G 144
Rhinatrema bivittatum	PKRACWGS-	AANDRREGALG	OST RDRDOVDS	WPCCSPCST	DDPDALEDAFLAEELPLC	s 157
Latimeria_chalumnae					EEPDLYEDGLAHGELSLC	
Xenopus_tropicalis	DKBAHWCH-	DRSDGDI.G	OSELGGEDEEO-	Brookect	DNIEDGLLSVEVPLC	S 207
Nellopus_cropicaris	10	0 200	210	220	23024	0 207
		0			23024	O
	::***.* *	* * * * •		•		
Mus musculus	ASOHFSHHG	LCVVEHGGNTT		SPWTS	-GTOSTPWLSSN	A 150
Rattus_norvegicus					-GTOSTPWPSSN	
Homo_sapiens	ASOHFSHRG	LCVVEORSSVT		SSWTS	-GAWSPPCPPSN	A 150
Pan_troglodytes	ASOHESHRG	LCVVEORSSVT		SSWTS	-GAWSPPCPPSN	A 150
Macaca_mulatta	ASOHESHRG	LCVVEORSSVT		SSWTS	-GTWSPPCPPSN	A 150
Callithrix_jacchus	ASOHESHRG	LCVVEOGSSVT		SSWTS	-GAWSPPCPPSN	A 150
Bos_taurus	ASOHECHHG	LCVVEOGGSST		SPWTS	-GARSSPLPPSN	A 150
Equus_caballus	ASOHECHHG	LCVVEOGGSST		SPWTS	-GARSPCWHPSN	A 150
Canis_lupus_familiaris	TSOHECHHG	LCVVEOGGSST		SPWTS	-GAQSTPCPPSN	A 148
Heterocephalus_glaber	ASOHESHHG	LCVVEHGGSAT		SPWTA	-GPQSPSCPPSN	A 150
Pavo muticus	SAOHESHSG	LOVVEHRCVSS	<mark>P</mark>	SPKAN	·REDK-LQDTSSFWPQH	I 180
Pavo cristatus					REDK-LQDTSSFWPQH	
Gallus_gallus					REDK-LQDTSSFWPQH	
Chelonia_mydas					REDR-LREAASPWPOH	
Rhinatrema bivittatum					SGARDQGREGSPVSQH	
Latimeria_chalumnae					RDFRLVREVGTGATTFQQ	
Xenopus_tropicalis	SAOHESHSG	LHVTEHRGEAS	S	SSRESI	SRLR <mark>G</mark> SR <mark>LFASCQ</mark> Q	T 249
	25	0260	270	280	29030	0
						•
	: .					
Mus musculus	SFNTLHTRD		W	AF <mark>PD</mark> QGGQ-		C 170
Rattus_norvegicus	SCNTLHTRD		W	AF <mark>PD</mark> OGGO-	. – – – – – – – – – – G	C 170
Homo_sapiens	SCNTLHTRD		W	A <mark>SPDPGGO</mark> -	·G	5 170
Pan troglodytes	PCNTLHTRD		W	ASPDPGGO-		s 170
Macaca mulatta	SCNTLHTRD		W	ASPDPGGH-		s 170
Callithrix jacchus	SCNTLHTRD		w	ASPDPGGO-		s 170
Bos taurus	SCSTLHTRD		W	ASPDPRGO-		170
Equus caballus	SCNTLHTRD		W	ASPDPGGO-	v	s 170
Canis lupus familiaris	SCNSLHTRD		W	ASPDPGGO-	G	s 168
Heterocephalus glaber	SYNTLHTRD		W	ASPDPGGO-		s 170
Pavo muticus	ACSTLHTRD		<mark>-</mark>	SCPVPPGN-		0 198
Pavo cristatus	ACSTLHTED			SCPVPPGN-		0 198
Gallus_gallus						
Chelonia_mydas	ACSTLHRRD			SCPAOLGAC	PLG-SPRACGSVEGRECP	G 223
Rhinatrema bivittatum					DCWRKCRPAEGKEPQLFG	
Latimeria chalumnae					GEEPLHGGLRNGLPVAGG	
Xenopus tropicalis	DPHLVPTOG		TLH	SSPVEAOO-		V 270
<u> </u>					35036	

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Mus musculus	LGETPGPLHNLAQIGGKS	200
Rattus norvegicus	LGESPGPAPSGQLHTLDTDLHNLAQIGGKS	200
Homo_sapiens	LGESPGPAPPGQLHTLDTDLHSLAQIGGKS	200
Pan_troglodytes	LGESPGPLHSLAQIGGKS	200
Macaca mulatta	LGESPGPAPPGQLHTLDTDLHSLAQIGGKS	200
Callithrix jacchus	LGASPGPAPPGQLHTIDTDLHSLAQIGGKS	200
Bos taurus	LGSSLGPAPPGQLHTLDTDLHSLAQIGGKS	200
Equus_caballus	LGESPGPAPPGQLLTLDTDLHSLAQIGDKS	200
Canis_lupus_familiaris		198
Heterocephalus_glaber	LEDSPGSAPSGQLHTLDTDLHSLAQIGSKS	200
Pavo muticus	LADCWENGERMSGYNLLDPDLHNIAQKPQLDCGGT	233
Pavo_muticus Pavo_cristatus	LADCWENGERMSGYNLLDPDLHNIAQKPQLDCGGT	233
Gallus gallus	LADCWDNGERMSGHNLLDLD-LHNIAQKPQLDCGGR	233
	LAEAREQPAEGSGARREERASSQNRLDIDLHNIAQKPWAASGGR	267
Chelonia_mydas	HLQVGENSAEGHASGKASNLKSDGVGSQNILETNLHDIAQTCTRDSCVR	
Rhinatrema_bivittatum		309
Latimeria_chalumnae	LADPASHFCAGRSTRFAASGISVHGCSLRNGGATSSQNILDNDSVLHKIAQKDTRDFSLI LPDGLPHHAEEPTTNQHIL	385
Xenopus_tropicalis	370380390400410420	301
	370380390400410420	
	 * *	
Mus_musculus	<mark>PVARVGNG</mark> SN <mark>PWP</mark> R <mark>ESHGTANGHSP</mark>	225
Rattus_norvegicus	<mark>PVARVGNG</mark> SN <mark>PWPRESHGTANGHSP</mark>	225
Homo_sapiens	<mark>PVAGVGNGGSLWPRESPGTANGHSP</mark>	225
Pan_troglodytes	<mark>PVAGVGNGGSLWPRESPGPANGHSP</mark>	225
Macaca_mulatta	<mark>PVAGVGNGGS</mark> LLPR <mark>ESPGT</mark> A <mark>NGHSP</mark>	225
Callithrix_jacchus	<mark>PVAGVGNGRSLWPRESPGT</mark> A <mark>NGHSP</mark>	225
Bos_taurus	LVSGVGNGGSPWPRESPGTANGCSP	225
Equus_caballus	<mark>PVAGVGNGGSPWPRESPGT</mark> A <mark>NGHSP</mark>	225
Canis_lupus_familiaris	<mark>PVAGVGNGGSPWPRESPGTANGHSP</mark>	223
<pre>Heterocephalus_glaber</pre>	<mark>PVARVDNGGSPWPRESPGT</mark> A <mark>NGHSP</mark>	225
Pavo_muticus	GE-K <mark>PGSSPAH</mark> SCGAGKAEEW-PVVANGCKEPLAPQMLLSPEPSNLSSQ	280
Pavo_cristatus	GE-K <mark>PGSSPAH</mark> SCGAGKAEEW-PVVANGCKEPLAPQMLLSPEPSNLSSQ	280
Gallus_gallus	GE-K <mark>PGSSPPEP</mark> SNLNSQ	280
Chelonia_mydas	GEEQTGGSPPESNGLGSS	315
Rhinatrema_bivittatum	HDELAGASEHWGLTOSGHLALNSKKMSN-GSL <mark>PGGS</mark> KE <mark>PTTP</mark> RSESSKVOISEANGLTSS	368
Latimeria_chalumnae	EGVEPGTLEGQGPAPTSPEGVSGSQEQAVPNGGKEQTPPERARMPVSCANGLASS	440
Xenopus_tropicalis	DPVLHSIAQPKGPAQMPAQANGN-LAAEPVLKEPLSPQLQPPTEGPSPA	349
	430440450460470480	
	* .* .**:** : : **:*. : : : : : : : : :	
Mus musculus	EHTPPGPGPPGPCPTKRRLLPAGE-TLDVSSEDEGPAPRRRGTLGCPLA	274
Rattus_norvegicus	EHTPPGPGPPGPCPTKRRLLPAGE-ALDVSSEDEGPAPRRRRGTLGCPLA	274
Homo_sapiens	EHTPPGPGPPGPCPTKRRLLPAGE-APDVSSEEEGPAPRRRRGSLGHPTA	274
Pan troglodytes	EHTPPGPGPPGPCPTKRRLLPAGE-APDVSSEEEGPAPRRRGSLGHPTA	274
Macaca mulatta	EHTPPGPGPPGPCPTKRRLLPAGE-APDVSSEEEGPAPRRRGSLGHPTA	274
Callithrix_jacchus	EHTPPGPGPPGPCPTKRRLLPAGE-APDINSEEEGPAPRRRGTLGHPTA	274
Bos taurus	EHTPPGPGPPGPCPTKRRLLPAGE-ALDVSSEDEGPAPRRRRGTLGHPPA	274
Equus_caballus	EHTPPGPGPPGLCPTKRRLLPAEE-ALDVSSEDEGPAPRRRGTLGHPPA	274
Canis lupus familiaris	EHTPPGPGPPGPCPTKRRLLPAGE-ALDVSSEDEGPAPRRRGTLGHPSA	272
Heterocephalus glaber	EHTPPGPGPPGPCPTKRRLLPAGE-ALDVSSEDEGPAPRRRRGTLGHPPA	274
Pavo muticus	EKTPCGNSSSSSCPAKRKLLPAGEIMADSCSEDESLSQLVRKKRALPCHPVPTA	334
Pavo_muticus Pavo cristatus	EKTPCGNSSSSSCPAKRKLLPAGEIMADSCSEDESLSQLVRKKRALPCHPVPTA EKTPCGNSSSSSCPAKRKLLPAGEIMADSCSEDESLSQLVRKKRALPCHPVPTA	334
Gallus_gallus	EKTPCGNSSSSSGSSSCPAKRKLLPAGE-MADSCSEDESLSQLVRKKRALPCHPVPTA EKTPCMGSRPPGAGGGS-CAAKRKLLPSGEGVADSCSEDESVAP-ARKKRAPLCHPILTA	339
Chelonia_mydas	EKTPCMGSRPPGAGGGS-CAARRKLLPSGEGVADSCSEDESVAP-ARKKRAPLCHPILTA EKTPLTSGKPSSSSGSG-WAVKRKLLQSSE-TADSCSEDESQSP-AKRKRVQPSHPVLAS	373
Rhinatrema_bivittatum		425
Latimeria_chalumnae	EKTPIASKQLGSGHGGG-CCAKRKLLQASD-ASESCSEDESQAS-AKRSRIQLSRSISAS	497
Xenopus_tropicalis	ETPPGPSRLCTPGSSAVKRKLLPSSE-SADSCSEDEGHGKKWRGGQGCQALHGA	402
	490500510520530540	

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Mus_musculus	ANSSDAKATPFWSHLLPGPKEPVLDPTDCSPMGRRLKGARRLKLSSLRTLRKGPGLLSPP	334
Rattus_norvegicus	ANSSDAKATPFWSHLLPGPKEPVLDPTDRSPMGRRLKGARRLKLSSLRTLRKGPGLLSPP	334
Homo_sapiens	ANSSDAKATPFWSHLLPGPKEPVLDPTDCGPMGRRLKGARRLKLSPLRSLRKGPGLLSPP	334
Pan_troglodytes	ANSSDAKATPFWSHLLPGPKEPVLDPTDCGPMGRRLKGARRLKLSPLRSLRKGPGLLSPP	334
Macaca_mulatta	ANSSDAKATSFWSHLLPGPKEPVLDPTDCSPMGRRLKGARRLKLSPLRSLRKGPGLLSPP	334
Callithrix_jacchus	ANSSDAKATPFWSHLLPGPKEPVLDPTDCSPMGRRLKGARRLKLSPLRNLRKGPGLLSAP	334
Bos_taurus_	ANSSDAKATPFWSHLLPGPKEPVLDPTDCNPMGRRLKGARRLKLSSLRSLRKGPGLLSPP	334
Equus_caballus	ANSSDAKATPFWSHLLPGPKEPVLDPTDCSPTGRRLKGACRLKLSSLRSLRKGPGLLSPP	334
Canis_lupus_familiaris	ANSSDAKATPFWSHLLPGPKEPVLDPTDCSPMGRRLKGARRLKLSSLRSLRKGPGLLSPP	332
Heterocephalus_glaber	ANSSDAKATPFWNHLLPGPKEPVLDPKDCSPMVRRLKGARHLKLSSLRSLRKGPGLLSPP	334
Pavo_muticus	CRSTDAKGAPFWNHLLPAAKGSADCTTVGRRLKSGLRLKSRHLRSSLRRGTRS	387
Pavo_cristatus	CRSTDAKGAPFWNHLLPAAKGSADCTTVGRRLKSGLRLKSRHLRSSLRRGTRS	387
Gallus_gallus	CRSTDAKGAPFWNHLLPTAKSSADCTTVGRRLKSGLRLKSRHLRSSLRRGTRS	392
Chelonia_mydas	CRSTDAKGAPFWNHLLPGAKRSADGTAVGRRLKSGLRLKSRHLRSSLRKGPVGTRP	429
Rhinatrema_bivittatum	CR <mark>STDAKAAP</mark> FWNHLL <mark>P</mark> SARD <mark>PP</mark> KSCTDCSSIRQRLKS <mark>G</mark> LQFKSRHLR-SLRK <mark>G</mark> -VAGRT	483
Latimeria_chalumnae	CRSTDAKAAPFWNHLLPSARGLSKGSSDCTNIGRRLKNGLRLKTRHLRSGRRPTRT	553
Xenopus_tropicalis	CRSTDSKAAPFWNHLLPAARHSQKILSDHSGRRPKRGLRLKSRSPISPQKGP	454
	550560570580590600	
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Mus_musculus	SASPFPTPAVSRTLLGNFEESLLRGRFAPSGHIEGFTAEIGASGSYCPQHVTLPVTVTFF	394
Rattus_norvegicus	SASPFPTPAVSRTLLGNFEESLLRGRFAPSGHIEGFTAEIGASGSYCPQHVTLPVTVTFF	394
Homo_sapiens	SASPVPTPAVSRTLLGNFEESLLRGRFAPSGHIEGFTAEIGASGSYCPQHVTLPVTVTFF	394
Pan_troglodytes	SASPVPTPAVSRTLLGNFEESLLRGRFAPSGHIEGFTAEIGASGSYCPQHVTLPVTVTFF	394
Macaca_mulatta	SASPVPTPAVSRTLLGNFEESLLRGRFAPSGHIEGFTAEIGASGSYCPQHVTLPVTVTFF	394
Callithrix_jacchus	SASPVPTPAVSRTLLGNFEESLLRERFAPSGHIEGFTAEIGASGSYCPQHVTLPVTVTFF	394
Bos_taurus	SASPVPAPAVSRTLLGNFEESLLRGRFAPSGRIEGFTAEIGASGSYCPQHVTLPVTVTFF	394
Equus_caballus	SASPVPTPAVSRTLLGNFEESLLQGRFAPSGHIEGFTAEIGASGSYCPRHVTLPVTVTFF	394
Canis_lupus_familiaris	SASPVPTPAVSRTLLGNFEESLLRGRFAPSGHIEGFTAEIGASGSYCPQHVTLPVTVTFF	392
Heterocephalus_glaber	SASPIPTPAISRTLLGNFEESLLRGRFAPSGHIEGFTAEIGASGSYCPQHVTLPVTVTFF	394
Pavo_muticus	SASSWATTTVSHALL <mark>GNFEESILKGRFAPSGRIEGFTAEIGASGSYCPQHVTLP</mark> VDVTYF	447
Pavo_cristatus	SAASWATTTVSHALL <mark>GNFEESILKGRFAPSGRIEGFTAEIGASGSYCPQHVTLP</mark> VDVTYF	447
Gallus_gallus	SAASWATTTVSHALL <mark>GNFEESILKGRFAPSGRIEGFTAEIGASGSYCPQHVTLP</mark> VDVTYF	452
Chelonia_mydas	SAAAWATTSISHALL <mark>GNFEES</mark> IL <mark>KGR</mark> FA <mark>PSG</mark> RIEGFTAEIGASGSYCPQHATL <mark>P</mark> VDVTYF	489
Rhinatrema_bivittatum	SPEPWATSAISRSLLGNFEESILKGRFVPSGCIEGFTAEIGASGSYCPQHATLPVQVTYF	543
Latimeria_chalumnae	STGAWATSSISRSLLGNFEESILKGRFTPSGKIEGFTAEIGASGSYCPQHVTLPVEVTYF	613
Xenopus_tropicalis	AARSWANSCI <mark>SRP</mark> LL <mark>GNFEES</mark> ILRGRFAP <mark>SGQIEGFTAEIGASGSYCPQHVT</mark> LPVTVTYF	514
	610620630640650660	
_	.:**:*:****::.* .:*:********* ********	
Mus_musculus	DVSEQNAPAPFLGVVDLTPLGRKGYSVPKVGTIQVTLFNPNQTVVKMFLVTFDFSDMPAA	454
Rattus_norvegicus	DVSEQNAPAPFLGVVDLNPLGRKGYSVPKVGTIQVTLFNPNQTVVKMFLVTFDFSDMPAA	454
Homo_sapiens	DVSEQNAPAPFLGIVDLNPLGRKGYSVPKVGTVQVTLFNPNQTVVKMFLVTFDFSDMPAA	454
Pan_troglodytes	DVSEQNAPAPFLGIVDLNPLGRKGYSVPKVGTVQVTLFNPNQTVVKMFLVTFDFSDMPAA	454
Macaca_mulatta	DVSEQNAPAPFLGIVDLNPLGRKGYSVPKVGTVQVTLFNPNQTVVKMFLVTFDFSDMPAA	454
Callithrix_jacchus	DVSEQNAPAPFLGVMDLKPLGRKGYSVPKVGTIQVTLFNPNQTVVKMFLVTFDFSDMPAA	454
Bos_taurus_	DVSEQNAPAPFLGVVDLSPLGRKGYSVPKVGTIQVTLFNPNQTVVKMFLVTFDFSDMPAA	454
Equus_caballus	NVSEQNAPAPFLGVVDLLPLGRKGYSVPKVGTIQVTLFNPNQTVVKMFLVTFDFSDMPAG	454
Canis_lupus_familiaris		452
Heterocephalus_glaber	DVSEQNAPAPFLGVVDLNSLGRKGYSVPKVGTIQVTLFNPNQTVVKMFLVTFDFSDMPAA	454
Pavo_muticus	DI <mark>SE</mark> HSV <mark>PSP</mark> FLGVIDLEALGKKGYSVPKAGTIQVTLFNPNKTVVKMFLVTYDFQDMPAN	507
Pavo_cristatus	DI <mark>SE</mark> HSV <mark>PSPFLGVIDLEALGKKGYSVPKAGTIQVTLFNPNKTVVK</mark> MFLVTYDFQDMPAN	507
Gallus_gallus	DISEHSVPSPFLGVIDLEALGKKGYSVPKAGTIQVTLFNPNKTVVKMFLVTYDFQDMPAN	512
Chelonia_mydas	DI <mark>SE</mark> HSA <mark>PSPFLGVIDLEALGKKGYSVPKAGTIQVTLFNPNKTVVK</mark> MFLVTYDFQ <mark>DMP</mark> AS	549
Rhinatrema_bivittatum	DI <mark>SE</mark> HSV <mark>PSP</mark> FLGVIDLEALGKKGYSVPKAGTIQVTLFNPNKTVVKMFLVTYDFKDM <mark>PT</mark> S	603
Latimeria_chalumnae	DISEHSAPSPFLGVISLESLGRKGYSVPKTGTIQVTLFNPNTTVVKMFLVTYDFNDMPPN	673
Xenopus_tropicalis	HI <mark>SE</mark> HSV <mark>P</mark> SPFLGVINLEAVGKKGYSVPSTGTIQVTLFNPNKTVVKMFLVTYDLKDMPPN	574
	670680690700710720	

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Mus_musculus				493
Rattus_norvegicus				493
Homo_sapiens				493
Pan_troglodytes				493
Macaca_mulatta				493
Callithrix_jacchus				493
Bos_taurus				493
Equus_caballus				493
Canis_lupus_familiaris				491
Heterocephalus_glaber				493
Pavo_muticus				556
Pavo_cristatus				556
Gallus_gallus				561
Chelonia_mydas				597
Rhinatrema_bivittatum			~	661
Latimeria_chalumnae			~	722
Xenopus_tropicalis				631
	730740	750 76	0770780	
_	* :: ** :******:*:			
Mus_musculus	SGRLSLHGDIRLLFSRRSLEI			
Rattus_norvegicus	SGRLSLHGDIRLLFSRRSLEI			
Homo_sapiens	SGRLSLHGDIRLLFSRRSLEI			
Pan_troglodytes	SGRLSLHGDIRLLFSRRSLEI			
Macaca_mulatta	SGRLSLHGDIRLLFSRRSLEI			
Callithrix_jacchus	SGRLSLHGDIRLLFSRRSLEI			
Bos_taurus_	SGRLSLHGDIRLLFSRRSLEI			
Equus_caballus	SGRLSLHGDIRLLFSRRSLEI			
Canis_lupus_familiaris	SGRLSLHGDIRLLFSRRSLEI			
Heterocephalus_glaber	SGRLSLHGDIRLLFSRRSLEI			
Pavo_muticus	SGKIYLHDNIRLLFSRKSIEV			
Pavo_cristatus	SGKIYLHDNIRLLFSRKSIEV			
Gallus_gallus	SGKIYLHDNIRLLFSRKSIEV	/ <mark>DSGIPYE</mark> LKSF TE MPR N P	<mark>RYSPWP</mark> 606	
Chelonia_mydas	SGKIYLHNDIRLLFSRKSIEV			
Rhinatrema_bivittatum	SEKIYLHKDIRLLFSRKSIE		~	
Latimeria_chalumnae	SGKIYLHDDIRLLFSRKSIE			
Xenopus_tropicalis	SGKIYLHGDIRLLFSRKSIE			
	790800	81082	0	