File: /home/ceglab2/Desktop/ajinkya/pavo/MS**P**@CIVest Feb 16 12:14:26 2022 Page 1 of 7

Gallus gallus	MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVSAVQAAVSNLVRVGKE	60
Anas platyrhynchos	MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVSAVQAAVSNLVRVGKE	60
Pavo muticus	MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVSAVQAAVSNLVRVGKE	60
Pavo cristatus	MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVSAVQAAVSNLVRVGKE	60
Chelonia mydas	MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKE	60
Homo_sapiens	MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKE	60
Macaca mulatta	MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKE	60
Pan troglodytes	MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKE	60
Callithrix jacchus	MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKE	60
Heterocephalus_glaber	MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKE	60
Equus_caballus	MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKE	60
Bos_taurus	MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKE	60
Pteropus_alecto	MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKE	60
Mus_musculus	MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKE	60
Ornithorhynchus_anatinus	MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKE	60
Rhinatrema_bivittatum	MPVFHTKTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKE	60
Xenopus_tropicalis	MPVFHTKTIESILEPVAQQISHLVIMHEEGEVDGKAIPELTAPVAAVQAAVSNLVRVGKE	60
	15060	
Galler maller	***************************************	100
Gallus_gallus	TVQTTEDQILKRDMPPAFIKVENACTKLVRAAQMLQADPYSVPARDYLIDGSRGILSGTS	120 120
Anas_platyrhynchos Pavo muticus	TVQTTEDQILKRDMPPAFIKVENACTKLVRAAQMLQADPYSVPARDYLIDGSRGILSGTS TVQTTEDQILKRDMPPAFIKVENACTKLVRAAQMLQADPYSVPARDYLIDGSRGILSGTS	120
Pavo_muticus Pavo_cristatus	TVOTTEDOILKRDMPPAFIKVENACTKLVRAAQMLQADPYSVPARDYLIDGSRGILSGTS TVOTTEDOILKRDMPPAFIKVENACTKLVRAAQMLQADPYSVPARDYLIDGSRGILSGTS	120
Chelonia mydas	TVQTTEDQILKRDMPPAFIKVENACTKLVQAAQMLQADPISVPARDILIDGSRGILSGTS TVQTTEDQILKRDMPPAFIKVENACTKLVQAAQMLQADPYSVPARDYLIDGSRGILSGTS	120
Homo_sapiens	TVQTTEDQILKRDMPPAFIKVENACTKLVQAAQMLQSDPYSVPARDYLIDGSRGILSGTS TVQTTEDQILKRDMPPAFIKVENACTKLVQAAQMLQSDPYSVPARDYLIDGSRGILSGTS	120
Macaca mulatta	TVQTTEDQILKRDMPPAFIKVENACTKLVQAAQMLQSDPISVPARDILIDGSRGILSGTS TVQTTEDQILKRDMPPAFIKVENACTKLVQAAQMLQSDPYSVPARDYLIDGSRGILSGTS	120
Pan_troglodytes	TVQTTEDQILKRDMPPAFIKVENACTKLVQAAQMLQSDPYSVPARDYLIDGSRGILSGTS	120
Callithrix jacchus	TVOTTEDOILKRDMPPAFIKVENACTKLVQAAQMLQSDPYSVPARDYLIDGSRGILSGTS	120
Heterocephalus glaber	TVQTTEDQILKRDMPPAFIKVENACTKLVQAAQMLQSDPYSVPARDYLIDGSRGILSGTS	120
Equus caballus	TVQTTEDQILKRDMPPAFIKVENACTKLVQAAQMLQSDPYSVPARDYLIDGSRGILSGTS	120
Bos taurus	TVQTTEDQILKRDMPPAFIKVENACTKLVQAAQMLQSDPYSVPARDYLIDGSRGILSGTS	120
Pteropus alecto	TVQTTEDQILKRDMPPAFIKVENACTKLVQAAQMLQSDPYSVPARDYLIDGSRGILSGTS	120
Mus musculus	TVOTTEDOILKRDMPPAFIKVENACTKLVQAAQMLQSDPYSVPARDYLIDGSRGILSGTS	120
Ornithorhynchus anatinus	TVQTTEDQILKRDMPPAFIKVENACTKLVQAAQMLQADPYSVPARDYLIDGSRGILSGTS	120
Rhinatrema bivittatum	TVQTTEDQILKRDMPPAFIKVENACTKLVQAAQMLQADPYSVPARDYLIDGSRGILSGTS	120
Xenopus tropicalis	TVQTTEDQIMKRDMPPAFIKVENACAKLVQAAQMLHADPYSVPARDYLIDGSRGILSGTS	120
	708090100110120	

Gallus_gallus	DLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQ	180
Anas_platyrhynchos	DLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQ	180
Pavo_muticus	DLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQ	180
Pavo_cristatus	DLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQ	180
Chelonia_mydas	DLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQ	180
Homo_sapiens	DLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQ	180
Macaca_mulatta	DLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQ DLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDEROO	180 180
Pan_troglodytes Callithrix_jacchus	DLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQ	180
	DLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQ	
Heterocephalus_glaber Equus_caballus	DLLLTFDEAEVRIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQ DLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQ	180 180
Bos taurus	DLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQ	180
Pteropus alecto	DLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDEROO	180
Mus_musculus	DLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQ	180
	DLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQ	180
Rhinatrema bivittatum	DLLLTFDEAEVRKIIRVCRGILEYLIVAEIVETMEDLVTYTKNLGPGMTKMAKMIDERQQ	180
Xenopus tropicalis	DLLLTFDEAEVRKIIRVCKGILEYLTVAEVVESMEDLVTYTKNLGPGMTKMAKMIDEROO	180
<u>F</u> <u>F</u>	130140150160170180	

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	*********** **:************************	
Gallus_gallus	ELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNTKSQGIEEALKNRNFTVEKMSAE	240
Anas_platyrhynchos	EL <mark>THQEHR</mark> VMLVNSMNTVKELLPVLISAMKIFVTTKNSKSQGIEEALKNRNFTVEKMSAE	240
Pavo_muticus	ELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNTKSQGIEEALKNRNFTVEKMSAE	240
Pavo_cristatus	ELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNTKSQGIEEALKNRNFTVEKMSAE	240
Chelonia_mydas	ELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKSSKSQGIEEALKNRNFTVEKMSAE	240
Homo_sapiens	ELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNSKNQGIEEALKNRNFTVEKMSAE	240
Macaca mulatta	ELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNSKNQGIEEALKNRNFTVEKMSAE	240
Pan troglodytes	ELTHOEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNSKNOGIEEALKNRNFTVEKMSAE	240
Callithrix_jacchus	ELTHOEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNSKNOGIEEALKNRNFTVEKMSAE	240
Heterocephalus glaber	ELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNSKNQGIEEALKNRNFTVEKMSAE	240
Equus caballus	ELTHOEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNSKNOGIEEALKNRNFTVEKMSAE	240
Bos_taurus	ELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNSKNQGIEEALKNRNFTVEKMSAE	240
Pteropus alecto	ELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNSKNQGIEEALKNRNFTVEKMSAE	240
- -		
Mus_musculus	ELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNSKNQGIEEALKNRNFTVEKMSAE	240
Ornithorhynchus_anatinus	ELTHQEHRVMLVNSMNMVKELLPVLISAMKIFVTTKNSKSQGIEEALKNRNFTVEKMSAE	240
Rhinatrema_bivittatum	ELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKSSKSQGVEEALKNRNFTVGKMNTE	240
Xenopus_tropicalis	ELTHQEHRVMLVNSMNTVKDLLPVLISAMKIFVTTKNSRSQGIEEALKNRNFTVEKMSAE	240
	190210220230240	
	*********** ***** ******* *:**:***.**:	
Gallus gallus	INEIIRVLOLTSWDEDAWA <mark>SKKDTEAMKR</mark> ALALIDSKMNOAKGWLRDPNAPPGDAGEOAI	300
Anas platyrhynchos	INEIIRVLOLTSWDEDAWASKKDTEAMKRALALIDSKMNOAKGWLRDPNAPPGDAGEOAI	300
Pavo muticus	INEIIRVLOLTSWDEDAWAS-KDTEAMKRALALIDSKMNOAKGWLRDPNAPPGDAGEOAI	299
Pavo cristatus	INEIIRVLQLTSWDEDAWAS-KDTEAMKRALALIDSKMNQAKGWLRDPNAPPGDAGEQAI	299
Chelonia mydas	INEIIRVLOLTSWDEDAWAS-KDTEAMKRALALIDSKMNOAKGWLRDPNASPGDPGEOAI	299
Homo_sapiens	INEIIRVLOLTSWDEDAWAS-KDTEAMKRALASIDSKLNOAKGWLRDPSASPGDAGEOAI	299
Macaca mulatta	INEIIRVLOLTSWDEDAWAS-KDTEAMKRALASIDSKLNOAKDWLHDPSAFPGDAGEOAI	299
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Pan_troglodytes	INEIIRVLQLTSWDEDAWA <mark>SKKDTE</mark> AMKRALASIDSKLNQAKGWLRDPSASPGDAGEQAI	300
Callithrix_jacchus	INEIIRVLQLTSWDEDAWA <mark>SKKDTE</mark> AMKRALASID <mark>SKLNQAKG</mark> WLRDPSASPGDAGEQAI	300
Heterocephalus_glaber	INEIIRVLQLTSWDEDAWAS-KDTEAMKRALASIDSKLNQAKGWLRDPSASPGDAGEQAI	299
Equus_caballus	INEIIRVLQLTSWDEDAWA <mark>SKKDTEAMKR</mark> ALASIDSKLNQAKGWLRDPSASPGDAGEQAI	300
Bos_taurus	INEIIRVLQLTSWDEDAWAS-KDTEAMKRALASIDSKLNQAKGWLRDPNASPGDAGEQAI	299
Pteropus_alecto	INEIIRVLQLTSWDEDAWAS-KDTEAMKRALASIDSKLNQAKGWLRDPSASPGDAGEQAI	299
Mus_musculus	INEIIRVLQLTSWDEDAWAS-KDTEAMKRALASIDSKLNQAKGWLRDPNASPGDAGEQAI	299
Ornithorhynchus_anatinus	INEIIRVLQLTSWDEDAWAS-KDTEAMKRALASIDSKLNQAKGWLRDPNASPGDAGEQAI	299
Rhinatrema_bivittatum	INEIIRVLQLTSWDEDAWANKKDTEAMKRALGLIESKLNQAKGWLRDPNASPGDAGEQAI	300
Xenopus_tropicalis	INEIIRVLQLTSWDEDAWASKKDTEAMKRALALIDSKINQAKGWLRDPNAPPGDVGEQAV	300
	$\dots \dots 250 \dots 260 \dots 270 \dots 280 \dots 290 \dots 300$	
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Gallus gallus	RQILDEAGKAGELCAGKERREILGTCKTLGQMTDQLADLRARGQGATPMAMQKAQQVSQG	360
Anas_platyrhynchos	ROILDEAGKAGELCAGKERREILGTCKTLGOMTDOLADLRARGOGATPMAMOKAQOVSOG	360
Pavo muticus	ROILDEAGKAGELCAGKERREILGTCKTLGOMTDOLADLRARGOGATPMAMOKAQOVSOG	359
Pavo cristatus	RQILDEAGKAGELCAGKERREILGTCKTLGQMTDQLADLRARGQGATPMAMQKAQQVSQG	359
Chelonia mydas	RQILDEAGKVGELCAGKERREILGTCKMLGQMTDQVADFRARGQGATPMAIQKAQQVSQG	359
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Homo_sapiens	RQILDEAGKVGELCAGKERREILGTCKMLGQMTDQVADLRARGQGSSPVAMQKAQQVSQG	359
Macaca_mulatta	RQILDEAGKVGELCAGKERREILGTCKMLGQMTDQVADLRARGQGSSPVAMQKAQQVSQG	359
Pan_troglodytes	RQILDEAGKVGELCAGKERREILGTCKMLGQMTDQVADLRARGQGSSPVAMQKAQQVSQG	360
Callithrix_jacchus	RQILDEAGKVGELCAGKERREILGTCKMLGQMTDQVADLRARGQGSSPVAMQKAQQVSQG	360
Heterocephalus_glaber	RQILDEAGKVGELCAGKERREILGTCKMLGQMTDQVADLRARGQGASPVAMQKAQQVSQG	359
Equus_caballus	RQILDEAGKVGELCAGKERREILGTCKMLGQMTDQVADLRARGQGASSVAMQKAQQVSQG	360
Bos_taurus	RQILDEAGKVGELCAGKERREILGTCKMLGQMTDQVADLRARGQGASPVAMQKAQQVSQG	359
Pteropus_alecto	RQILDEAGKVGELCAGKERREILGTCKMLGQMTDQVADLRARGQGASPVAMQKAQQVSQG	359
Mus_musculus	RQILDEAGKVGELCAGKERREILGTCKMLGQMTDQVADLRARGQGASPVAMQKAQQVSQG	359
Ornithorhynchus_anatinus	RQILDEAGKVGELCAGKERREILGTCKVLGQMTDQVADFRARGQGGTPAAMQKAQQISQG	359
Rhinatrema bivittatum	RQILDEAGKVGELCAGKERRDILGTCRTLGQLTDQVSDLRARGQGATPMAMQKAQQVSQG	360
Xenopus tropicalis	RQILDEAGKVGELCAGTERKDILGICRTLGQMTDQVSDLRARGQGATPIAMQKAQQVSQG	360
FF	310320330340350360	

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	::**:**:**:**	
Gallus_gallus	LDLLTAKVENAARKLEAMTNSKQAIAKKIDAAQNWLADPNGGSEGEEHIRGIMSEARKVA	420
Anas_platyrhynchos	LDMLTAKVENAARKLEAMTNSKQAIAKKIDAAQNWLADPNAGSEGEEHIRGIMAEARKVA	420
Pavo_muticus	LDLLTAKVENAARKLEAMTNSKQAIAKKIDAAQNWLADPNGGSEGEEHIRGIMAEARKVA	419
Pavo_cristatus	LDLLTAKVENAARKLEAMTNSKQAIAKKIDAAQNWLADPNGGSEGEEHIRGIMAEARKVA	419
Chelonia_mydas	LDLLTAKVENAARKLEAMTNSKQAIAKKIDAAQNWLADPNGGSEGEEQIRGIMAEARKIA	419
Homo_sapiens	LDVLTAKVENAARKLEAMTNSKQSIAKKIDAAQNWLADPNGGPEGEEQIRGALAEARKIA	419
Macaca_mulatta	LDVLTAKVENAARKLEAMTNSKQSIAKKIDAAQNWLADPNGGPEGEEQIRGALAEARKIA	419
Pan_troglodytes	LDVLTAKVENAARKLEAMTNSKQSIAKKIDAAQNWLADPNGGPEGEEQIRGALAEARKIA	420
Callithrix_jacchus	LDVLTAKVENAARKLEAMTNSKQSIAKKIDAAQNWLADPNGGPEGEEQIRGALAEARKIA	420
Heterocephalus_glaber	LDVLTAKVENAARKLEAMTNSKQSIAKKIDAAQNWLADPNGGPEGEEQIRGALAEARKIA	419
Equus_caballus	LDVLTAKVENAARKLEAMTNSKQSIAKKIDAAQNWLADPNGGPEGEEQIRGALAEARKIA	420
Bos_taurus	LDVLTAKVENAARKLEAMTNSKOSIAKKIDAAONWLADPNGGPEGEEQIRGALAEARKIA	419
Pteropus_alecto	LDVLTAKVENAARKLEAMTNSKQSIAKKIDAAQNWLADPNGGPEGEEQIRGALAEARKIA	419
Mus_musculus	LDVLTAKVENAARKLEAMTNSKOSIAKKIDAAONWLADPNGGPEGEEQIRGALAEARKIA	419
Ornithorhynchus_anatinus	LDMLTAKVENAARKLEAMTNSKQSIAKKIDAAQNWLADPNGGPEGEEQIRGVLAEARKIA	419
Rhinatrema_bivittatum	LDLLTAKVENAARKLEAMTNSKOAIAKKIDAAONWLADPNGGPEGEEHIRGILAEAKKIA	420
Xenopus_tropicalis	LDVLTSKVKNAAHKLEALTNSKQAIGKKIDAAQSWLADPNGGPEGEENIRTILAEAKKIA	420
	370380390400410420	

Gallus gallus	ELCEEPKERDDILRSLGEISALTAKLSDLRRHGKGDSPEARALAKOIATSLONLOSKTNR	480
Anas platyrhynchos	ELCEEPKERDDILRSLGEISALTAKLSDLRRHGKGDSPEARALAKQIATALONLOSKTNR	480
Pavo muticus	ELCEEPKERDDILRSLGEISALTAKLSDLRRHGKGDSPEARALAKQIATSLQNLQSKTNR	479
Pavo cristatus	ELCEEPKERDDILRSLGEISALTAKLSDLRRHGKGDSPEARALAKQIATSLQNLQSKTNR	479
Chelonia mydas	ELCEDPKDRDDILRSLGEISALTAKLSDLRRHGKGDSPEARVLAKOVATSLONLOSKTNR	479
Homo_sapiens	ELCDDPKERDDILRSLGEISALTSKLADLRRQGKGDSPEARALAKQVATALQNLQTKTNR	479
Macaca mulatta	ELCDDPKERDDILRSLGEISALTSKLADLRRQGKGDSPEARALAKQVATALQNLQTKTNR	479
Pan troglodytes	ELCDDPKERDDILRSLGEISALTSKLADLRROGKGDSPEARALAKOVATALONLOTKTNR	480
Callithrix_jacchus	ELCDDPKERDDILRSLGEISALTSKLADLRRQGKGDSPEARALAKQVATALQNLQTKTNR	480
Heterocephalus glaber	ELCDDPKERDDILRSLGEISALTSKLADLRROGKGDSPEARALAKOVATALONLOTKTNR	479
Equus caballus	ELCDDPKERDDILRSLGEISALTSKLADLRRQGKGDSPEARALAKQVATALQNLQTKTNR	480
Bos_taurus	ELCDDPKERDDILRSLGEISALTSKLGDLRROGKGDSPEARALAKOVATALONLOTKTNR	479
Pteropus_alecto	ELCDDPKERDDILRSLGEIAALTSKLADLRRQGKGDSPEARALAKQVATALQNLQTKTNR	479
	ELCDDPKERDDILRSLGEIAALTSKLGDLRRQGKGDSPEARALAKQVATALQNLQTKTNR	479
Mus_musculus Ornithorhynchus anatinus	ELCDDPKERDDILRSLGEISALTTKLSDLRRQGKGDSPEARALAKQVATALQNLQIKINR	479
	DLCEDPKERDDILRSLGEIAALTAKLSDLRRQGKGDSPEARALAKQLATSLQNLQTKTNR	480
Rhinatrema_bivittatum		480
Xenopus_tropicalis	DLCEDPKDKEDILRSLGEIAALTAKLTDLRRQGKGDSHEARALAKQIATSLQNLQTKVNR	400
	430440450460470480	

Collug gollug		540
Gallus_gallus	AVANTRPVKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGRRLANVMMGPYRQ AVANTRPVKAAVHLEGKIEOAORWIDNPTVDDRGVGOAAIRGLVAEGRRLANVMMGPYRO	
Anas_platyrhynchos		540
Pavo_muticus	AVANTRPVKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGRRLANVMMGPYRQ	539
Pavo_cristatus	AVANTRPVKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGRRLANVMLGPYRQ	539
Chelonia_mydas	AVANTRPVKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGRRLANVMIGPYRQ	539
Homo_sapiens	AVANSRPAKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGHRLANVMMGPYRQ	539
Macaca_mulatta	AVANSRPAKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGHRLANVMMGPYRQ	539
Pan_troglodytes	AVANSRPAKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGHRLANVMMGPYRQ	540
Callithrix_jacchus	AVANSRPAKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGHRLANVMMGPYRQ	540
Heterocephalus_glaber	AVANSRPAKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGHRLANVMMGPYRQ	539
Equus_caballus	AVANSRPAKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGHRLANVMMGPYRQ	540
Bos_taurus_	AVANSRPAKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGHRLANVMMGPYRQ	539
Pteropus_alecto	AVANTRPAKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGHRLANVMMGPYRQ	539
Mus_musculus	AVANSRPAKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGHRLANVMMGPYRQ	539
Ornithorhynchus_anatinus	AVANSRPVKAAVHLEGKIEQAHRWIDNPTVDDRGVGQAAIRGLVAEGHRLANVMMGPYRQ	539
Rhinatrema_bivittatum	AVANSRPVKAAVNLEGKIEQAQRWIDNPTVDDRGVGQAAVRGLVAEGRRLANVMMGPYRQ	540
Xenopus_tropicalis	AVA <mark>NSRP</mark> VKAAVNM <mark>EGKVEQAQRWIDNPSVDDKG</mark> VGQAAIRGLVAEGRRLANSMIGPFRQ	540
	$\dots \dots 490 \dots \dots 500 \dots \dots 510 \dots \dots 520 \dots \dots 530 \dots \dots 540$	

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Gallus_gallus	DLLAKCDRVDQLAAQLADLAARGEGESPQARAIAAQLQDSLKDLKARMQEAMTQEVSDVF	600
Anas platyrhynchos	DLLAKCDRVDQLAAQLADLAARGEGESPQARAIAAQLQDSLKDLKARMQEAMTQEVSDVF	600
Pavo muticus	DLLAKCDRVDQLAAQLADLAARGEGESPQARAIAAQLQDSLKDLKARMQEAMTQEVSDVF	599
Pavo cristatus	DLLAKCDRVDQLAAQLADLAARGEGESPQARAIAAQLQDSLKDLKARMQEAMTQEVSDVF	599
Chelonia_mydas	DLLAKCDRVEOLAAOLADLAARGEGESPOARAIATOLODSLKDLKTRMOEAMTOEVSDIF	599
Homo_sapiens	DLLAKCDRVDQLTAQLADLAARGEGESPQARALASQLQDSLKDLKARMQEAMTQEVSDVF	599
Macaca_mulatta	DLLAKCDRVDQLTAQLADLAARGEGESPQARALASQLQDSLKDLKARMQEAMTQEVSDVF	599
Pan troglodytes	DLLAKCDRVDQLTAQLADLAARGEGESPQARALASQLQDSLKDLKARMQEAMTQEVSDVF	600
Callithrix_jacchus	DLLAKCDRVDQLTAQLADLAARGEGESPQARVLASQLQDSLKDLKARMQEAMTQEVSDVF	600
Heterocephalus glaber	DLLAKCDRVDQLTAQLADLAARGEGESPQARALASQLQDSLKDLKAQMQEAMTQEVSDVF	599
Equus caballus	DLLAKCDRVDQLTAQLADLAARGEGESPQARALASQLQDSLKDLKARMQEAMTQEVSDVF	600
Bos taurus	DLLAKCDRVDQLTAQLADLAARGEGESPQARALASQLQDSLKDLKARMQEAMTQEVSDVF	599
Pteropus alecto	DLLAKCDRVDQLTAQLADLAARGEGESPQARALASQLQDSLKDLKARMQEAMTQEVSDVF	599
Mus musculus	DLLAKCDRVDQLTAQLADLAARGEGESPQARALASQLQDSLKDLKAQMQEAMTQEVSDVF	599
Ornithorhynchus anatinus		599
Rhinatrema bivittatum	DMLAKCDRVEQLAAQLADMAARGEGDTPQARVVAAQLQESLKDLKAKMQEAMTQEVSDVF	600
Xenopus_tropicalis	DMMAKCDRVEQLAGQLAELALRGEGDTPLAQAVAAQLQEALKDLKGKMQEAMTQEVSDVF	600
kenopus_cropicaris	550560570580590600	000

Gallus_gallus	<mark>SDTTTP</mark> IKLLAVAATA <mark>P</mark> SD <mark>TPNREE</mark> VF <mark>EERAANFENHAAR</mark> LGATAEKAAAV <mark>G</mark> TANKTTVE	660
Anas_platyrhynchos	SDTTTPIKLLAVAATAPSDTPNREEVFDERAANFENHAARLGATAEKAAAVGTANKTTVE	660
Pavo_muticus	SDTTTPIKLLAVAATA <mark>PSDTPNREEVFEERAANFENHAARLGATAEKAAAVGTANKTT</mark> VE	659
Pavo_cristatus	SDTTTPIKLLAVAATA <mark>PSDTPNREEVFEERAANFENHAARLGATAEKAAAVGTANKTT</mark> VE	659
Chelonia_mydas	SDTTTP1KLLAVAATA <mark>PPD</mark> APNRDEVF <mark>DER</mark> AANFENHAARL <mark>G</mark> ATAEKAAAV <mark>GT</mark> ANKTTVE	659
Homo_sapiens	SDTTTPIKLLAVAATAPPDAPNREEVFDERAANFENHSGKLGATAEKAAAVGTANKSTVE	659
Macaca_mulatta	SDTTTPIKLLAVAATAPPDAPNREEVFDERAANFENHSGKLGATAEKAAAVGTANKSTVE	659
Pan_troglodytes	SDTTTPIKLLAVAATA <mark>PP</mark> DA <mark>PNREE</mark> VFDERAA <mark>NFENHSGKLGATAEKAAAVGTANKST</mark> VE	660
Callithrix_jacchus	SDTTTPIKLLAVAATAPPDAPNREEVFDERAANFENHSGKLGATAEKAAAVGTANKSTVE	660
Heterocephalus_glaber	SDTTTP1KLLAVAATAPPDAPNREEVFDERAANFENHSGRLGATAEKAAAVGTANKSTVE	659
Equus_caballus	SDTTTPIKLLAVAATA <mark>PP</mark> DA <mark>PNREEVFDERAANFENHSGRLGATAEKAAAVGTANKSTVE</mark>	660
Bos_taurus	SDTTTPIKLLAVAATAPPDAPNREEVFDERAANFENHSGRLGATAEKAAAVGTANKSTVE	659
Pteropus_alecto	SDTTTPIKLLAVAATAPPDAPNREEVFDERAANFENHSGRLGATAEKAAAVGTANKSTVE	659
Mus_musculus	SDTTTP1KLLAVAATAPPDAPNREEVFDERAANFENHSGRLGATAEKAAAVGTANKSTVE	659
Ornithorhynchus_anatinus		659
Rhinatrema_bivittatum	SDTTTPIKLLAVAATSPPDAPNREEVFNERAANFENHAARLGATAEKAAAVGTANKTTVE	660
Xenopus_tropicalis	<mark>SDTTTP</mark> IKLLAVAATS <mark>PSDTPNR</mark> DEVFEERATNFESH <mark>S</mark> ARL <mark>G</mark> ATAEKAAAV <mark>GS</mark> ANKATVE	660
	610620630640650660	

Gallus_gallus	GIQATVKSARELTPQVVSAARILLRNPGNQAAYEHFETMKNQWIDNVEKMTGLVDEAIDT	720
Anas_platyrhynchos	GIQATVKSARELTPQVVSAARILLRNPGNQAAYEHFETMKNQWIDNVEKMTGLVDEAIDT	720
Pavo_muticus	GIQATVKSARELTPQVVSAARILLRNPGNQAAYEHFETMKNQWIDNVEKMTGLVDEAIDT	719
Pavo cristatus	GIQATVKSARELTPQVVSAARILLRNPGNQAAYEHFETMKNQWIDNVEKMTGLVDEAIDT	719
Chelonia mydas	GIQAAVKSARELTPQVISAARILLRNPGNQAAYEHFETMKNQWIDNVEKMTGLVDEAIDT	719
Homo sapiens	GIQASVKTARELTPOVVSAARILLRNPGNOAAYEHFETMKNOWIDNVEKMTGLVDEAIDT	719
Macaca mulatta	GIQASVKTARELTPQVVSAARILLRNPGNQAAYEHFETMKNQWIDNVEKMTGLVDEAIDT	719
Pan troglodytes	GIOASVKTARELTPOVVSAARILLRNPGNOAAYEHFETMKNOWIDNVEKMTGLVDEAIDT	720
Callithrix_jacchus	GIQASVKTARELTPOVVSAARILLRNPGNOAAYEHFETMKNOWIDNVEKMTGLVDEAIDT	720
Heterocephalus glaber	GIQASVKTARELTPQVVSAARILLRNPGNQAAYEHFETMKNQWIDNVEKMTGLVDEAIDT	719
Equus caballus	GIQASVKTARELTPQVVSAARILLRNPGNQAAYEHFETMKNQWIDNVEKMTGLVDEAIDT	720
Bos taurus	GIQASVKTARELTPOVVSAARILLRNPGNOAAYEHFETMKNOWIDNVEKMTGLVDEAIDT	719
Pteropus alecto	GIOASVKTARELTPOVVSAARILLRNPGNOAAYEHFETMKNOWIDNVEKMTGLVDEAIDT	719
Mus musculus	GIQASVKTARELTPQVISAARILLRNPGNQAAYEHFETMKNQWIDNVEKMTGLVDEAIDT	719
Ornithorhynchus anatinus		719
Rhinatrema bivittatum	GIQAAVKTSRDLTPQVVSAARILLRNPGNQAAYEHFETMKNQWIDNVEKMTGLVDEAIDT	720
Xenopus tropicalis	GIQAAVKSARELTPQVVSAARILLRNPGNQAAYEHFETMKNQWIDNVEKMTGLVDEAIDT	720
	670680690710720	, 20

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**********************************
                          <mark>KS</mark>LLDASEEAIKKDLDKCKVAMANMQPQMLVAGATSIARRANRILLVAKREVENSEDPKF
                                                                                              780
Gallus_gallus
                          KSLLDASEEAIKKDLDKCKVAMANMQPQMLVAGATSIARRANRILLVAKREVENSEDPKF
Anas_platyrhynchos
                                                                                              780
                          KSLLDASEEAIKKDLDKCKVAMANMQPQMLVAGATSIARRANRILLVAKREVENSEDPKF
Pavo muticus
                                                                                              779
                          KSLLDASEEAIKKDLDKCKVAMANMQPQMLVAGATSIARRANRILLVAKREVENSEDPKF
                                                                                              779
Pavo_cristatus
Chelonia_mydas
                          KSLLDASEEAIKKDLDKCKVAMANIQPQMLVAGATSIARRANRILLVAKKEVENSEDPKF
                                                                                              779
                          K<mark>S</mark>LL<mark>DASEEAIKKDLDKCK</mark>VAMANI<mark>QPQ</mark>MLVAGATSIARRANRILLVAKREVENSEDPKF
                                                                                              779
Homo_sapiens
                          KSLLDASEEAIKKDLDKCKVAMANIQPQMLVAGATSIARRANRILLVAKREVENSEDPKF
                                                                                              779
Macaca_mulatta
                          KSLLDASEEAIKKDLDKCKVAMANIQPQMLVAGATSIARRANRILLVAKREVENSEDPKF
                                                                                              780
Pan_troglodytes
                          K<mark>S</mark>LL<mark>DASEEAIKKDLDKCKVAMANIQPQ</mark>MLVA<mark>GATS</mark>IARRANRILLVAKREVENSEDPKF
Callithrix_jacchus
                                                                                              780
Heterocephalus_glaber
                          KSLLDASEEAIKKDLDKCKVAMANIOPOMLVAGATSIARRANRILLVAKREVENSEDPKF
                                                                                              779
                          KSLLDASEEAIKKDLDKCKVAMANIQPQMLVAGATSIARRANRILLVAKREVENSEDPKF
                                                                                              780
Equus_caballus
Bos_taurus
                          KSLLDASEEAIKKDLDKCKVAMANI<mark>QPQ</mark>MLVAGATSIARRANRILLVAKREVENSEDPKF
                                                                                              779
                          KSLLDASEEAIKKDLDKCKVAMANI<mark>OPO</mark>MLVAGATSIARRANRILLVAKREVENSEDPKF
Pteropus_alecto
                                                                                              779
Mus musculus
                          <mark>KS</mark>LLDASEEAIKKDLDKCKVAMANIQPQMLVAGATSIARRANRILLVAKREVENSEDPKF
                                                                                              779
                          KSLLDASEEAIKKDLDKCKVAMANIQPQMLVAGATSIARRANRILLVAKREVENSEDPKF
Ornithorhynchus anatinus
                                                                                              779
                          KSLLDASEEAIKKDIDKCKVAMANMQPQMLVAGATSIARRANRILLVAKKEVENSEDPKF
Rhinatrema_bivittatum
                                                                                              780
                          R<mark>S</mark>LLDA<mark>SEEAIKKDIDKCKVAMANMQPQ</mark>MLVAGA<mark>TSIARRANR</mark>ILLVAKREMENSEDPKF
Xenopus tropicalis
                                                                                              780
                           ......730......740......750......760......770.......780
                          <mark>reavkaasdelsktisp</mark>mvmda<mark>k</mark>ava<mark>gnisdpgloksfldsgyr</mark>il<mark>g</mark>ava<mark>kvre</mark>af<mark>opo</mark>e
Gallus_gallus
                                                                                             840
                          REAVKAASDELSKTISPMVMDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQE
                                                                                             840
Anas_platyrhynchos
                          REAVKAASDELSKTISPMVMDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQE
                                                                                              839
Pavo muticus
                          REAVKAA<mark>SDELSKTISP</mark>MVMDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQE
Pavo_cristatus
                                                                                              839
Chelonia_mydas
                          REAVKAASDDLSKTISPMVMDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQE
                                                                                             839
                          REAVKAASDELSKTISPMVMDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQE
                                                                                             839
Homo_sapiens
Macaca_mulatta
                          REAVKAASDELSKTISPMVMDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQE
                                                                                             839
Pan_troglodytes
                          REAVKAA<mark>SDELSKTISP</mark>MVMDAKAVA<mark>GNISDPG</mark>LQKSFLDSGYRILGAVAKVREAFQPQE
                                                                                              840
                          REAVKAASDELSKTISPMVMDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQE
Callithrix_jacchus
                                                                                             840
Heterocephalus_glaber
                          REAVKAASDELSKTISPMVMDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQE
                                                                                              839
                          REAV<mark>KAASDELSKTISP</mark>MVMDAKAVA<mark>GNISDPG</mark>LQKSFLDSGYRIL<mark>G</mark>AVAKVREAFQPQE
Equus_caballus
                                                                                             840
Bos_taurus
                          REAVKAASDELSKTISPMVVDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQE
                                                                                             839
Pteropus_alecto
                          REAVKAASDELSKTISPMVMDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQE
                                                                                             839
Mus musculus
                          REAVKAA<mark>SDELSKTISP</mark>MVMDAKAVA<mark>GNISDPG</mark>LQKSFLDSGYRILGAVAKVREAFQPQE
                                                                                             839
                          REAVKAASDELSKTISPMVMDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQE
Ornithorhynchus_anatinus
                                                                                             839
                          REAVKVASDELSKTISPMVMDAKAVAGNISDPGLQKGFLDSGYRILGAVAKVREAFQPQE
                                                                                             840
Rhinatrema_bivittatum
Xenopus_tropicalis
                          <mark>RDAVKNASDELSKTISPMVMEAK</mark>AVA<mark>GNISNPALQKG</mark>FL<mark>DSGYR</mark>IL<mark>G</mark>AVA<mark>K</mark>VREAFQPPE
                                                                                              840
                           ......790......800......810......820......830......840
                                     * • * * * * *
                          PDFPPPPP-DLEHLHLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEAINQPM
                                                                                             899
Gallus gallus
                          PDFPPPPP-DLEQLHLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEAINQPM
                                                                                             899
Anas_platyrhynchos
Pavo_muticus
                          PDFPPPPP-DLEHLHLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEAINQPM
                                                                                             898
Pavo_cristatus
                          PDFPPPPP-DLEHLHLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEAINQPM
                                                                                              898
                          PDFPPPPPPDIEQLHLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEVINQPM
                                                                                             899
Chelonia_mydas
                          PDFPPPPP-DLEQLRLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEVINQPM
                                                                                              898
Homo sapiens
Macaca_mulatta
                          PDFPPPPP-DLEQLRLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEVINQPM
                                                                                             898
                          PDFPPPPP-DLEQLRLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEVINQPM
                                                                                              899
Pan troglodytes
                          PDFPPPPP-DLEQLRLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEVINQPM
                                                                                             899
Callithrix_jacchus
Heterocephalus_glaber
                          PDFPPPPP-DLEQLRLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEVINQPM
                                                                                             898
Equus_caballus
                          PDFPPPPP-DLEQLRLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEVINQPM
                                                                                              899
                          PDFPPPPP-DLEQLRLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEVINQPM
                                                                                             898
Bos_taurus
                          PDFPPPPP-DLEQLRLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEAINQPM
                                                                                             898
Pteropus alecto
                          PDFPPPPP-DLEQLRLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEVINQPM
Mus musculus
                                                                                             898
898
                          PDFPPPPP-DLDQLHLADEPAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEVVNQPM
Rhinatrema_bivittatum
                                                                                             899
                          PEFPPPPD--LDQLRLSDEAAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKVGEVVNQPM
Xenopus_tropicalis
                                                                                              898
                           ......850......860......870......880......890......900
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G	* • * * * * * * * * * * * * * * * * * *	
~ 11 11	•	0.40
Gallus_gallus	MMAARQLHDEARKWSSKPVTVINEAAEAGVDIDEEDDADVEFSLPSDIED	949
Anas_platyrhynchos	MMAAR <mark>QLHDEARKWSSKP</mark> VTVVN <mark>E</mark> AAEA <mark>G</mark> VDID <mark>E</mark> ED <mark>DAD</mark> VEFTL <mark>P</mark> SDIED MMAAR <mark>QLHDEARKWSSK</mark>	949
Pavo_muticus	MMAARQLHDEARKWSSK	915
Pavo_cristatus	MMAARQLHDEARKWSSK MMAARQLHDEARKWSSK	915
Chelonia_mydas	MMAARQLHDEARKWSSK	916
Homo_sapiens	MMAARQLHDEARKWSSKPGIPAAEVGIGVVAEADAADA-AGFPVPPDMED	947
Macaca_mulatta	MMAARQLHDEARKWSSKPGIPAAEVGIGVVAEADAADA-AGFPVPPDMED	947
Pan_troglodytes	MMAARQLHDEARKWSSKPGIPAAEVGIGVVAEADAADA-AGFPVPPDMED	948
Callithrix_jacchus	MMAARQLHDEARKWSSKPGIPAAEVGIGVVAEADAADA-AGFPVPPDMED	948
Heterocephalus_glaber	MMAARQLHDEARKWSSKPGIPAAEVGIGVVAEADAADA-VGFPVPSDMED	947
Equus_caballus	MMAARQLHDEARKWSSKPGNPAAEVGLSVVAEADAADA-VGFPVPPDMED	948
Bos_taurus_	MMAARQLHDEARKWSSKPGNPAAKVGISVVAEAEAADA-VGFPVPPDMED	947
Pteropus_alecto	MMAA <mark>RQLHDEARKWSSK</mark> L <mark>G</mark> NPAAQVGIGVVAEAETADA-VGFPVPLDMED	947
Mus_musculus	MMAARQLHDEARKWSSK	915
	MMAARQLHDEARKW <mark>SSKPG</mark> KEAAEA <mark>G</mark> VG-VAEVDDADA-VEYTL <mark>P</mark> SDLED	946
Rhinatrema_bivittatum	MVAARQLHDEARKWSSKPAVTPEAHEATEADVEIDEEEEEDADDVEFTLPSDNED	954
Xenopus_tropicalis	MVAARQLHDEARKWSSKSPGNSDYPAPQGREAVVSEVEQEQEEEEEEASVEFALSSDIED	958
	910920930940950960	

Gallus_gallus	DYEPELLLMPTNQPVNQPILAAAQSLHREATKWSSKGNDIIAAAKRMALLMAEMSRLVRG	1009
Anas_platyrhynchos	DYEPELLLMPTNQPVNQPILAAAQSLHREATKWSSKGNDIIAAAKRMALLMAEMSRLVRG	1009
Pavo_muticus	GNDIIAAA <mark>KR</mark> MALLMAEM <mark>SR</mark> LVRG	939
Pavo_cristatus	<mark>GND</mark> IIAAA <mark>KRMALLMAEMSR</mark> LV <mark>RG</mark>	939
Chelonia_mydas	<mark>GND</mark> IIAAAKRMALLMAEMSRLVRG	940
Homo_sapiens	DYEPELLLMPSNOPVNOPILAAAQSLHREATKWSSKGNDIIAAAKRMALLMAEMSRLVRG	1007
Macaca_mulatta	DYEPELLLMPSNQPVNQPILAAAQSLHREATKWSSKGNDIIAAAKRMALLMAEMSRLVRG	1007
Pan_troglodytes	DYEPELLLMPSNQPVNQPILAAAQSLHREATKWSSKGNDIIAAAKRMALLMAEMSRLVRG	1008
Callithrix_jacchus	DYEPELLLMPSNQPVNQPILAAAQSLHREATKWSSKGNDIIAAAKRMALLMAEMSRLVRG	1008
Heterocephalus_glaber	DYEPELLLMPSSQPVNQPILAAAQSLHREATKWSSKGNDIIAAAKRMALLMAEMSRLVRG	1007
Equus_caballus	DYEPELLLMPSNQPVNQPILAAAQSLHREATKWSSKGNDIIAAAKRMALLMAEMSRLVRG	1008
Bos taurus	DYEPELLLMPSNOPVNOPILAAAOSLHREATKWSSKGNDIIAAAKRMALLMAEMSRLVRG	1007
Pteropus_alecto	DYEPELLLMPSNQPVNQPILAAAQSLHREATKWSSKGNDIIAAAKRMALLMAEMSRLVRG	1007
Mus musculus	GNDIIAAAKRMALLMAEMSRLVRG	939
	DYEPELLLMPTSQPVNQPILAAAQSLHREATKWSSKGNDIIAAAKRMALLMAEMSRLVRG	1006
Rhinatrema bivittatum	DYEPELLLMPTNOPUNOPILAAAQALHREATKWSSKGNDIIAAAKRMALLMAEMSRLVRG	1014
Xenopus tropicalis	DYEPELLLVPEGQPVNQPMLAAAQSLHREATKWSSKGNDIIAAAKRMALLMAEMSRLVRG	1018
	970980990100010101020	
	** *******************	
Gallus_gallus	GSGNKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILS	1069
Anas_platyrhynchos	GSGNKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILS	1069
Pavo muticus	GSGNKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILS	999
Pavo cristatus	GSGNKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILS	999
Chelonia mydas	VSGNKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILS	1000
Homo sapiens	GSGTKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILS	1067
Macaca mulatta	GSGTKRALIOCAKDIAKASDEVTRLAKEVAKOCTDKRIRTNLLOVCERIPTISTOLKILS	1067
Pan troglodytes	GSGTKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILS	1068
Callithrix_jacchus	GSGTKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILS	1068
Heterocephalus glaber	GSGTKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILS	1067
Equus caballus	GSGTKRALIOCAKDIAKASDEVTRLAKEVAKOCTDKRIRTNLLOVCERIPTISTOLKILS	1068
Bos_taurus	GSGTKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILS	1067
Pteropus_alecto	GSGTKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILS	1067
Mus musculus	GSGTKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILS	999
Ornithorhynchus_anatinus		1066
Rhinatrema bivittatum	GSGNKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILS	1074
Xenopus_tropicalis	GSGNKRALIQCAKDIAKASDEVTKLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILS	1074
TOTOPUS_CTOPICATIS	103010401050106010701080	10/0

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Gallus_gallus	TVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFT	1125
Anas_platyrhynchos	TVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFT	1125
Pavo_muticus	TVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFT	1055
Pavo_cristatus	TVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFT	1055
Chelonia_mydas	TVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKLEQMLDSLFAGL	1060
Homo_sapiens	TVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFT	1123
Macaca_mulatta	TVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFT	1123
Pan_troglodytes	TVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFT	1124
Callithrix_jacchus	TVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFT	1124
Heterocephalus_glaber	TVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFT	1123
Equus_caballus	TVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFT	1124
Bos_taurus	TVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFT	1123
Pteropus_alecto	TVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFT	1123
Mus_musculus	TVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFT	1055
Ornithorhynchus_anatinus	TVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFT	1122
Rhinatrema_bivittatum	TVKATMLGRTNISEEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFT	1130
Xenopus_tropicalis	TVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGCT	1134
	$\dots 1090 \dots 1100 \dots 1110 \dots 1120 \dots 1130 \dots 1140$	

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Gallus_gallus		L <mark>R</mark> W\	7RK	r <mark>p</mark> w:	<u> </u>			1136
Anas_platyrhynchos		L <mark>R</mark> W	/RK	r <mark>p</mark> w:	∀Q			1136
Pavo_muticus		L <mark>R</mark> W	/RK	r <mark>p</mark> w:	Y<mark>Q</mark>−−			1066
Pavo_cristatus		L <mark>R</mark> W	/RK	r <mark>p</mark> w:	∀Q			1066
Chelonia_mydas	$\mathbf{E}\mathbf{R}\mathbf{L}$	L <mark>G</mark> IS	KQ:	L <mark>P</mark> NI	NNLL	KHK	KPF	1082
Homo_sapiens		LRW	/RK	r <mark>p</mark> w:	Y Q−−			1134
Macaca_mulatta		L <mark>R</mark> W	/RK	r <mark>p</mark> w:	7 <mark>Q</mark>			1134
Pan_troglodytes		L <mark>R</mark> W	/RK	r <mark>p</mark> w:	Y<mark>Q</mark>−−			1135
Callithrix_jacchus		L <mark>R</mark> W	/RK	r <mark>p</mark> w:	Y<mark>Q</mark>−−			1135
Heterocephalus_glaber		L <mark>R</mark> W	/RK	r <mark>p</mark> w:	7 <mark>Q</mark>			1134
Equus_caballus		L <mark>R</mark> W	/RK	r <mark>p</mark> w:	7 <mark>Q</mark>			1135
Bos_taurus		L <mark>R</mark> W	/RK	r <mark>p</mark> w:	7 <mark>Q</mark>			1134
Pteropus_alecto		L <mark>R</mark> W	/RK	r <mark>p</mark> w:	7 <mark>Q</mark>			1134
Mus_musculus		L <mark>R</mark> W	/RK	r <mark>p</mark> w:	Y<mark>Q</mark>−−			1066
Ornithorhynchus_anatinus		L <mark>R</mark> W	/RK	r <mark>p</mark> w:	∀Q			1133
Rhinatrema_bivittatum		L <mark>R</mark> W	/RK	r <mark>p</mark> w:	Y<mark>Q</mark>−−			1141
Xenopus_tropicalis		L <mark>R</mark> W2	\RK	r <mark>p</mark> w:	7 Q−−			1145
	• • •	1	L15	0	• • • •	116	0	