File: /home/ceglab2/Desktop/ajinkya/pavo/MS**N**ATEGRIE Seb 15 16:16:59 2022 Page 1 of 7

Pavo_muticus Pavo_cristatus Anas_platyrhynchos Gallus_gallus Chelonia_mydas Pan_troglodytes Macaca_mulatta Callithrix_jacchus Homo_sapiens Mus_musculus Heterocephalus_glaber Bos_taurus Equus_caballus Pteropus_alecto Ornithorhynchus_anatinus Rhinatrema_bivittatum Xenopus_tropicalis	MDFQINLSKAAHNSPFSKTFPIPTLRGTHGLPQVFTFFLDTRKHILTPGKQSWLSQFPSR	60
Pavo_muticus Pavo_cristatus Anas_platyrhynchos Gallus_gallus Chelonia_mydas Pan_troglodytes Macaca_mulatta Callithrix_jacchus Homo_sapiens Mus_musculus Heterocephalus_glaber Bos_taurus Equus_caballus Pteropus_alecto Ornithorhynchus_anatinus Rhinatrema_bivittatum Xenopus_tropicalis	RTTLFLPPWSPAGSGAQVPICLGTEGGASWVQDLTGSKRDISGQTGREVGRAAPRKRNQK	120
Pavo_muticus Pavo_cristatus Anas_platyrhynchos Gallus_gallus Chelonia_mydas Pan_troglodytes Macaca_mulatta Callithrix_jacchus Homo_sapiens Mus_musculus Heterocephalus_glaber Bos_taurus Equus_caballus Pteropus_alecto Ornithorhynchus_anatinus Rhinatrema_bivittatum Xenopus_tropicalis	TLAQEATPGTRGALGRTRPLTPFTEEETEARDGLCGVSAPPSTVSPKARSRAGRFLCPGS	180

File: /home/ceglab2/Desktop/ajinkya/pavo/MS**P**/AffEG**B**/Jeplseb 15 16:16:59 2022 Page 2 of 7

Pavo_muticus Pavo_cristatus Anas_platyrhynchos Gallus_gallus Chelonia_mydas Pan_troglodytes Macaca_mulatta Callithrix_jacchus Homo_sapiens Mus_musculus Heterocephalus_glaber Bos_taurus Equus_caballus Pteropus_alecto Ornithorhynchus_anatinus Rhinatrema_bivittatum	ASCLLLAPGPADAAGEECVSGGSGRRLRPRERDRTRREGGAAASFLPGGGSGPPSPLLPP	22
Xenopus_tropicalis	190200210220230240	
Pavo_muticus Pavo_cristatus Anas_platyrhynchos Gallus_gallus Chelonia_mydas Pan_troglodytes Macaca_mulatta Callithrix_jacchus Homo_sapiens Mus_musculus Heterocephalus_glaber Bos_taurus Equus_caballus Pteropus_alecto Ornithorhynchus_anatinus Rhinatrema_bivittatum Xenopus_tropicalis	QTNLTLLTWVGVLCC QTNLTLLTWVGILCC DRNIWFESTLFLSPLKQLHVCTSMQFYFCLLVTINHKIWLSGFVFQINLKFLTWAGILCC	15 15 82 17 17 13 13 299 13 13 14 20
Pavo_muticus Pavo_cristatus Anas_platyrhynchos Gallus_gallus Chelonia_mydas Pan_troglodytes Macaca_mulatta Callithrix_jacchus Homo_sapiens Mus_musculus Heterocephalus_glaber Bos_taurus Equus_caballus Pteropus_alecto Ornithorhynchus_anatinus Rhinatrema_bivittatum Xenopus_tropicalis	LIWSGSAQQGGSDCIKANAKSCGECIQAGPNCGWCKKTDFLQEGEPTSARCDDLAALKSK LIWSGSAQQGGSDCIKANAKSCGECIQAGPNCGWCKKTDFLQEGEPTSARCDDLAALKSK LIWSGFGQQAGSDCIKANAKSCGECIQAGPNCGWCKKTDFLQEGEPTSARCDDLAALKSK LIWSGSAQQGGSDCIKANAKSCGECIQAGPNCGWCKKTDFLQEGEPTSARCDDLAALKSK LIWSGSAQQGGSDCIKANAKSCGECIQAGPNCGWCKEENFLQEGEPTSARCDDLAALKSK SIWHGFAQPGGSDCIKANAKSCGECIQAGPNCGWCKEENFLQEGEPTSARCDDLEALKSK SVCCVFAQTDENRCLKANAKSCGECIQAGPNCGWCTNSTFLQEGMPTSARCDDLEALKKK SICCVFGQTDENRCLKANAKSCGECIQAGPNCGWCTNSTFLQEGMPTSARCDDLEALKKK SVCCVFGQTDENRCLKANAKSCGECIQAGPNCGWCTNSTFLQEGMPTSARCDDLEALKKK SVCCVFAQTDENRCLKANAKSCGECIQAGPNCGWCTNSTFLQEGMPTSARCDDLEALKKK LICSVFGQTDKNRCLKANAKSCGECIQAGPNCGWCTNSTFLQEGMPTSARCDDLEALKKK SVCCVFGQTDKNRCLKANAKSCGECIQAGPNCGWCTNSTFLQEGMPTSARCDDLEALKKK SVCCVFGQADENRCLKANAKSCGECIQAGPNCGWCTNSTFLQEGMPTSARCDDLEALKKK SVCCVFGQADENRCLKANAKSCGECIQAGPNCGWCTNSTFLQEGMPTSARCDDLEALKKK SICYVFGQADENRCLKANAKSCGECIQAGPNCGWCTNSTFLQEGMPTSARCDDLEALKKK SICYVFGQADENRCLKANAKSCGECIQAGPNCGWCTNSTFLQEGMPTSARCDDLEALKKK SICKVFGQTGGNECLKANAKSCGECIQAGPNCGWCTNSTFLQEGMPTSARCDDLEALKKK SICKVFGQTGGNECLKANAKSCGECIQAGPNCGWCTNSTFLQEGMPTSARCDDLAALKSK LALCINAQQGGTECLKANAKSCGECIQAGPNCGWCTKVNFLQEGEPTSARCDDLAALKNK 310320330340350360	75 75 142 77 77 73 73 359 73 73 74 80 16 73

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Darra mutiana	:**** : :: :**: .: : * ****:**: * : .** **** . * GCPEQDIENPRGSKRVLEDREVTNRKIGAAEKLKPEAITQIQPQKLVLQLRVGEPQTFSL	125
Pavo_muticus		135 135
Pavo_cristatus	GCPEQDIENPRGSKRVLEDREVTNRKIGAAEKLKPEAITQIQPQKLVLQLRVGEPQTFSL	
Anas_platyrhynchos	GCPMED IENPRGSKQVLEDREVTNRKIGAAEKLKPEAITQIQPQKLVLKLRVGEPQTVSL	202
Gallus_gallus	GCPEQDIENPRGSKRVLEDREVTNRKIGAAEKLKPEAITQIQPQKLVLQLRVGEPQTFSL	137
Chelonia_mydas	GCSLNKTENPRGTKEILKNKEVTNRSKSTTENLKPEDITQIQPQQLILKLRTGEPQTFSL	137
Pan_troglodytes	GCPLDDIENPRGSKDIKKNKNVTNRSKGTAEKLKPEDITQIQPQQLVLRLRSGEPQTFTL	133
Macaca_mulatta	GCPPDDIENPRGSKDIKKNKNVTNRSKGTAEKLKPEDITQIQPQQLVLRLRSGEPQTFTL	133
Callithrix_jacchus	GCPPDDIENPRGSKDIKKNKNVTNRSKGTAEKLKPEDITQIQPQQLVLRLRSGEPQTFTL	419
Homo_sapiens	GCPPDDIENPRGSKDIKKNKNVTNRSKGTAEKLKPEDITQIQPQQLVLRLRSGEPQTFTL	133
Mus_musculus	GCQPSDIENPRGSQTIKKNKNVTNRSKGMAEKLRPEDITQIQPQQLLLKLRSGEPQKFTL	133
Heterocephalus_glaber	GCHPDDIENPRGSKTIRKNKNVTNRNKGAAGKLRPEEITQIQPQQLTLQLRSGEPQMFTL	133
Bos_taurus	GCHPNDIENPRGSKDIKKNKNVTNRSKGTAEKLQPEDITQIQPQQLVLQLRSGEPQTFTL	134
Equus_caballus	GCHPDDIENPRGSKDIKKNKNVTNRSKGTAEKLQPEDITQIQPQQLVLQLRSGEPQTFAL	140
Pteropus_alecto	GCHPDDIENPRGSKDIKKNKNVTNRSKGTAEKLQPEDITQIQPQQLVLQLRSGEPQTFAL	76
Ornithorhynchus_anatinus	GCLPEDIENPRGSKNIRKNKNVTNRSKGTAEKLQPEDITQIQPQQLVLKLRSGEPQTFAL	133
Rhinatrema_bivittatum	MTENPRGNQTRSKDKDVTNRNKGNLQKLKPEDITQIKPQQLVLQLRSGEPQTFPL	55
Xenopus_tropicalis	GCPEEDIQNPRGRKQKLKDIPITNKGKGERMDPANITQIRPQQLVFELRSGEPQTFNL	132
	370380390400410420	
	·*·***********************************	
Pavo_muticus	KFKRAEDYPIDLYYLMDLSYSMKDDLENVKSLGTALMREMEKITSDFRIGFGSFVEKTVM	195
Pavo_cristatus	KFKRAEDYPIDLYYLMDLSYSMKDDLENVKSLGTALMREMEKITSDFRIGFGSFVEKTVM	195
Anas_platyrhynchos	KFKRAEDYPIDLYYLMDLSYSMKDDLENVKSLGTALMQEMQKITSDFRIGFGSFVEKTVM	262
Gallus_gallus	KFKRAEDYPIDLYYLMDLSYSMKDDLENVKSLGTALMREMEKITSDFRIGFGSFVEKTVM	197
Chelonia_mydas	TFKRAEDY <mark>P</mark> IDLYYLMDLSYSMKDDLENVKSLGTALMREMKKITSDFRIGFGSFVEKTVM	197
Pan_troglodytes	KFKRAEDYPIDLYYLMDLSYSMKDDLENVKSLGTDLMNEMRRITSDFRIGFGSFVEKTVM	193
Macaca_mulatta	KFKRAEDYPIDLYYLMDLSYSMKDDLENVKSLGTDLMNEMRRITSDFRIGFGSFVEKTVM	193
Callithrix_jacchus	KFKRAEDYPIDLYYLMDLSYSMKDDLENVKSLGTDLMNEMRRITSDFRIGFGSFVEKTVM	479
Homo_sapiens	KFKRAEDYPIDLYYLMDLSYSMKDDLENVKSLGTDLMNEMRRITSDFRIGFGSFVEKTVM	193
Mus_musculus	KFKRAEDYPIDLYYLMDLSYSMKDDLENVKSLGTDLMNEMRRITSDFRIGFGSFVEKTVM	193
Heterocephalus_glaber	KFKRAEDYPIDLYYLMDLSYSMKDDLENVKSLGTDLMYKMKSITSDFRIGFGSFVEKTVM	193
Bos_taurus_	KFKRAEDYPIDLYYLMDLSYSMKDDLENVKSLGTDLMNEMRRITSDFRIGFGSFVEKTVM	194
Equus_caballus	KFKRAEDYPIDLYYLMDLSYSMKDDLENVKSLGTDLMNEMRRITSDFRIGFGSFVEKTVM	200
Pteropus_alecto	KFKRAEDYPIDLYYLMDLSYSMKDDLENVKSLGTDLMNEMRRITSDFRIGFGSFVEKTVM	136
Ornithorhynchus_anatinus		193
Rhinatrema_bivittatum	TFKRAEDYPIDLYYLMDLSYSMKDDLENVKRLGTDLMKEMKKITSDFRIGFGSFVEKTVM	115
Xenopus_tropicalis	TFRRAEDYPIDLYYLMDLSFSMKDDLENVKSLGTALMTEMEKITSDFRIGFGSFVEKTVM	192
	430450460470480	
	******* *** **** ******** ** ** ** ** *	
B	* * * * * * *	055
Pavo_muticus	PYISTTPAKLRNPCTGDQNCTSPFSYKNVLSLTSEGNKFNELVGKQHISGNLDSPEGGFD	255
Pavo_cristatus	PYISTTPAKLRNPCTGDQNCTSPFSYKNVLSLTSEGNKFNELVGKQHISGNLDSPEGGFD	255
Anas_platyrhynchos	PYISTTPAKLRNPCTGDQNCTSPFSYKNVLSLTSEGNRFNELVGKQQISGNLDSPEGGFD	322
Gallus_gallus	PYISTTPAKLRNPCTGDQNCTSPFSYKNVLSLTSEGNKFNELVGKQHISGNLDSPEGGFD	257
Chelonia_mydas	PYISTTPAKLRNPCTGDQNCTSPFSYKNVLNLTSNGKTFNELVGKQHISGNLDSPEGGFD	257
Pan_troglodytes	PYISTTPAKLRNPCTSEQNCTSPFSYKNVLSLTNKGEIFNELVGKQRISGNLDSPEGGFD	253
Macaca_mulatta	PYISTTPAKLRNPCTSEQNCTSPFSYKNVLSLTNKGEVFNELVGKQRISGNLDSPEGGFD	253
Callithrix_jacchus	PYISTTPAKLRNPCTSEQNCTSPFSYKNVLSLTNKGEVFNELVGKQRISGNLDSPEGGFD	539
Homo_sapiens	PYISTTPAKLRNPCTSEQNCTSPFSYKNVLSLTNKGEVFNELVGKQRISGNLDSPEGGFD	253
Mus_musculus	PYISTTPAKLRNPCTSEQNCTSPFSYKNVLSLTDRGEFFNELVGQQRISGNLDSPEGGFD	253
Heterocephalus_glaber	PYISTTPAKLRNPCTSEQNCTSPFSYKNVLSLTDKGEVFNELVGKQRISGNLDSPEGGFD	253
Bos_taurus	PYISTTPAKLRNPCTNEQNCTSPFSYKNVLSLTDKGEVFNELVGKQRISGNLDSPEGGFD	254
Equus_caballus	PYISTTPAKLRNPCTSEQNCTSPFSYKNVLSLTDKGEVFNELVGKQRISGNLDSPEGGFD	260
Pteropus_alecto	PYISTTPAKLRNPCTSEQNCTSPFSYKNVLSLTDKGEVFNELVGKQRISGNLDSPEGGFD PYISTTPAKLRNPCTGDONCTSPFSYKNVLNLTDKGEVFNELVGKOHISGNLDSPEGGFD	196
Ornithorhynchus_anatinus		253
Rhinatrema_bivittatum	PYISTTPAKLRNPCTGDQNCTSPFSYKNVLNLTDNGNLFNDLVSKQHISGNLDSPEGGFD	175
Xenopus_tropicalis	PYISTTPAKLINPCTSDQNCTSPFSYKNVLNLTSDGKLFNDLVGKQQISGNLDSPEGGFD	252
	490500510520530540	

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_	******* ***************************	
Pavo_muticus	AIMQVAVCGDQIGWRNVTRLLVFSTDAGFHFAGDGKLGGIVLPNDGKCHLENNMYTMSHY	315
Pavo_cristatus	AIMQVAVCGDQIGWRNVTRLLVFSTDAGFHFAGDGKLGGIVLPNDGKCHLENNMYTMSHY	315
Anas_platyrhynchos	AIMQVAVCGDQIGWRNVTRLLVFSTDAGFHFAGDGKLGGIVLPNDGRCHLENNVYTMSHY	382
Gallus_gallus	AIMQVAVCGDQIGWRNVTRLLVFSTDAGFHFAGDGKLGGIVLPNDGKCHLENNMYTMSHY	317
Chelonia_mydas	AIMQVAV <mark>CGTQIGWRN</mark> VTRLLVFSTDAGFHFAGDGKLGGIVLPNDGRCHLENNMYTMSHY	317
Pan_troglodytes	AIMQVAV <mark>CGS</mark> LI <mark>GWRN</mark> VTRLLVFSTDAGFHFA <mark>GDGK</mark> L <mark>GG</mark> IVL <mark>PNDGQCHLENN</mark> MYTMSHY	313
Macaca_mulatta	AIMQVAV <mark>CGS</mark> LI <mark>GWRN</mark> VTRLLVFSTDA <mark>G</mark> FHFA <mark>GDGK</mark> L <mark>GG</mark> IVL <mark>PNDGQCHLENNMYTMSHY</mark>	313
Callithrix_jacchus	AIMQVAV <mark>CGS</mark> LI <mark>GWRN</mark> VTRLLVFSTDAGFHFAGDGKLGGIVLPNDGQCHLENNMYTMSHY	599
Homo sapiens	AIMQVAVCGSLIGWRNVTRLLVFSTDAGFHFAGDGKLGGIVLPNDGQCHLENNMYTMSHY	313
Mus musculus	AIMQVAVCGSLIGWRNVTRLLVFSTDAGFHFAGDGKLGGIVLPNDGQCHLENNVYTMSHY	313
Heterocephalus glaber	AIMOVAVCGSLIGWRNVTRLLVFSTDAGFHFAGDGKLGGIVLPNDGOCHLENNVYTMSHY	313
Bos taurus	AIMOVAVCGSLIGWRNVTRLLVFSTDAGFHFAGDGKLGGIVLPNDGOCHLENDVYTMSHY	314
Equus caballus	AIMQVAVCGSLIGWRNVTRLLVFSTDAGFHFAGDGKLGGIVLPNDGQCHLENDVYTMSHY	320
Pteropus alecto	AIMQVAVCGSLIGWRNVTRLLVFSTDAGFHFAGDGKLGGIVLPNDGQCHLENDVYTMSHY	256
Ornithorhynchus anatinus		313
Rhinatrema bivittatum	AIMQVAVCGEQIGWRNVTRLLVFSTDAGFHFAGDGKLGGIVLPNDGRCHLVNNMYTMSHY	235
<u> </u>		
Xenopus_tropicalis	AIMQVAVCGEQIGWRNVTRLLVFSTDAGFHFAGDGKLGGIVLPNDGKCHLHGNMYTMSHY	312
	550560570580590600	

Pavo_muticus	YDY <mark>PSIAHLVQKLSENNIQT</mark> IFAV <mark>TEEFQAVYKELKNLIPKSAVGTLSSNSSN</mark> VIQLIID	375
Pavo_cristatus	YDYPSIAHLVQKLSENNIQTIFAVTEEFQAVYKELKNLIPKSAVGTLSSNSSNVIQLIID	375
Anas_platyrhynchos	YDY <mark>P</mark> SIAHLV <mark>OKLSENNIQTIFAVTEEFQAVYKELKNLIPKS</mark> AVGTLSSNSSNVIQLIID	442
Gallus gallus	YDY <mark>P</mark> SIAHLVQKL <mark>SENNIQTIFAVTEEFQAVYKELKNLIPKSAVGTLSSNSSNVIQ</mark> LIID	377
Chelonia_mydas	YDYPSIAHLVOKLSENNIOTIFAVTEEFOAVYKELKNLIPKSAVGTLSANSSNVIOLIID	377
Pan_troglodytes	YDYPSIAHLV <mark>OKLSENNIOTIFAVTEEFOPVYKELKNLIPKSAVGTLSANSSN</mark> VIOLIID	373
Macaca mulatta	YDYPSIAHLVQKLSENNIQTIFAVTEEFQPVYKELKNLIPKSAVGTLSANSSNVIQLIID	373
Callithrix jacchus	YDYPSIAHLVOKLSENNIQTIFAVTEEFQPVYKELKNLIPKSAVGTLSSNSSNVIQLIID	659
Homo sapiens	YDYPSIAHLVQKLSENNIQTIFAVTEEFQPVYKELKNLIPKSAVGTLSANSSNVIQLIID	373
Mus musculus	YDYPSIAHLVQKLSENNIQTIFAVTEEFQPVYKELKNLIPKSAVGTLSGNSSNVIQLIID	373
Heterocephalus glaber	YDYPSIAHLVOKLSENNIQTIFAVTEEFOPVYKELKNLIPKSAVGTLSANSSNVIHLIID	373
		374
Bos_taurus	YDYPSIAHLVQKLSENNIQTIFAVTEEFQPVYKELKNLIPKSAVGTLSANSSNVIQLIID	_
Equus_caballus	YDYPSIAHLVQKL <mark>SENNIQT</mark> IFAVTEEFQPVYKELKNLIPKSAVGTLSANSSNVIQLIID	380
Pteropus_alecto	ydypsiahlv <mark>ok</mark> l <mark>senniqtifavteefqpvykelknlipks</mark> av <mark>gtlsanssnviq</mark> liid	316
Ornithorhynchus_anatinus		373
Rhinatrema_bivittatum	YDYPSIAHLVQKL <mark>SENN</mark> IQTIFAVTEEFQPVYKELKNLIPKSAVGTLSANSSNVIELIIE	295
Xenopus_tropicalis	YDYPSIAHLVQKLSENNIQTIFAVTEDFQPVYQELKNLIPKSAVGTLSSNSSNVIQLIID	372
	610620630640650660	

Pavo muticus	AYNSLSSEVILENSKLPKGVTISYKSYCKNGVNDTQEDGRKCSNISIGDEVRFEINVTAN	435
Pavo cristatus	AYNSLSSEVILENSKLPKGVTISYKSYCKNGVNDTQEDGRKCSNISIGDEVRFEINVTAN	435
Anas platyrhynchos	AYNSLSSEVILENSKLPKGVAISYKSYCKNGVNDTQEDGRKCSNISIGDEVRFEINVTAY	502
Gallus_gallus	AYNSLSSEVILENSKLPKEVTISYKSYCKNGVNDTQEDGRKCSNISIGDEVRFEINVTAN	437
Chelonia mydas	AYNSLSSEVILENSKLPKGVTINYKSYCKNGVNGTGENGRKCSNISIGDEVKFEISVTAN	437
Pan_troglodytes	AYNSLSSEVILENGKLSEGVTISYKSYCKNGVNGTGENGRKCSNISIGDEVQFEISITSN	433
Macaca mulatta	AYNSLSSEVILENGKLSEGVTISYKSYCKNGVNGTGENGRKCSNISIGDEVQFEISITSN	433
Callithrix_jacchus	AYNSLSSEVILENSKLSEGVTISYKSYCKNGVNGTGENGRKCSNISIGDEVQFEISITSN	719
Homo_sapiens	AYNSLSSEVILENGKLSEGVTISYKSYCKNGVNGTGENGRKCSNISIGDEVQFEISITSN	433
Mus_musculus	AYNSLSSEVIL <mark>ENSKLP</mark> DGVTINYKSYCKNGVNGTGENGRKCSNISIGDEVQFEISITAN	433
Heterocephalus_glaber	AYNSLSSEVIL <mark>ENSKLPEGVTINYKSYCKNGVNGTGENGRKCSNISIGDEVQFE</mark> ISITAN	433
Bos_taurus_	AYNSLSSEVIL <mark>ENSKLPEGVTINYKSYCKNGVNGTGENGRKCSNISIGDEV</mark> QFEISITAN	434
Equus_caballus	AYNSLSSEVIL <mark>ENSKLPEGVTINYKSYCKNGVNGTGENGRKCSNISIGDEV</mark> QFEISITSN	440
Pteropus_alecto	AYNSLSSEVIL <mark>ENSKLPEGVTINYKSYCKNGVNGTGENGRKCSNISIGDEVQFE</mark> ISITSN	376
Ornithorhynchus_anatinus		433
Rhinatrema_bivittatum	SYNSLSSEVILENSKLPEGVTINYKSYCKNGVNGTGENGRKCSNISIGDEVQFEISVTAH	355
Xenopus_tropicalis	SYNSLSSELILENSKL <mark>PEGVTISYKSFCKNG</mark> VK <mark>GTGEDGRKCSNISIGDQVEFEISVT</mark> AH	432
	670680690700710720	

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Pavo_muticus	ECPKKGQNETIKIKPLGFTEEVEINLQFICECLCQGEGEPNSPACHDGNGTFECGACRCN	495
Pavo cristatus	ECPKKGQNETIKIKPLGFTEEVEINLQFICECLCQGEGEPNSPACHDGNGTFECGACRCN	495
Anas platyrhynchos	ECPKKGONETIKIKPLGFTEEVEINLOFICECOCOSEGEPNSPACHEGNGTFECGACRCN	562
Gallus_gallus	ECPKKGONETIKIKPLGFTEEVEIHLOFICDCLCOSEGEPNSPACHDGNGTFECGACRCN	497
Chelonia mydas	ECPKKGONETIKIKPLGFTEEVEINLOFICECQCOSEGIPHSPDCHEGNGTFECGACRCN	497
Pan troglodytes	KCPKK-DSDSFKIRPLGFTEEVEVILOYICECECOSEGIPESPKCHEGNGTFECGACRCN	492
Macaca mulatta	KCPKK-DSDSFKIRPLGFTEEVEVILOYICECECOSEGIPESPKCHEGNGTFECGACRCN	492
Callithrix_jacchus	KCPKK-DSDAFKIRPLGFTEEVEVILQYICECECQSEGIPGSPKCHEGNGTFECGACRCN	778
Homo_sapiens	KCPKK-DSDSFKIRPLGFTEEVEVILOYICECECOSEGIPESPKCHEGNGTFECGACRCN	492
Mus musculus	KCPNK-ESETIKIKPLGFTEEVEVVLQFICKCNCQSHGIPASPKCHEGNGTFECGACRCN	492
_	KCPNK-NSETIKIKPLGFTEEVEVILOFICECECOSEGIADSPKCHDGNGSFECGACRCN	492
Heterocephalus_glaber		_
Bos_taurus	KCPNK-NSETIKIKPLGFTEEVEIILQFICECECQGEGIPGSPKCHDGNGTFECGACRCN	493
Equus_caballus	KCPNK-NSETIKIKPLGFTEEVEVVLQFICECECQSEGVPSSPRCHEGNGTFECGACRCN	499
Pteropus_alecto	KCPNK-NSETIKIKPLGFTEEVEIILQFICECECQSEGIPGSPKCHEGNGTFECGACRCN	435
Ornithorhynchus_anatinus	KCPKKGQNETIKIKPLGFTEEVEINLQFICECECQNEGIPESSKCHGGNGTFECGACRCN	493
Rhinatrema_bivittatum	KCPKRGQNETIKIKPLGFTEEVEIILQFICECKCQETGIPESPDCHYGNGTFECGACRCN	415
Xenopus_tropicalis	KCPKKGQAESIKIKPLGFTEEVEIVLQFICECDCQEKGTPNSPECHHGNGTFECGACRCN	492
	730740750760770780	
	:*: *****************************	
Pavo_muticus	EGR I GR L CECST DE V N SEDMDAY CRRENSTE I CSNNGEC I CGQC V CKKRENT NEVYSGKY	555
Pavo_cristatus	EGRIGRLCECSTDEVNSEDMDAYCRRENSTEICSNNGECICGQCVCKKRENTNEVYSGKY	555
Anas_platyrhynchos	EGRIGRICECSTDEVNSEDMDAYCRRENSTEICSNNGECICGOCVCKKRENTNEVYSGKY	622
Gallus gallus	EGRIGRLCECSTDEVNSEDMDAYCRRENSTEICSNNGECICGQCVCKKRENTNEVYSGKY	557
Chelonia mydas	EGRIGKECECSTDEVNSEDMDAYCRRENSTEICSNNGECICGOCVCKKRENTNEVYSGKY	557
Pan troglodytes	EGRVGRHCECSTDEVNSEDMDAYCRKENSSEICSNNGECVCGQCVCRKRDNTNEIYSGKF	552
Macaca mulatta	EGRVGRHCECSTDEVNSEDMDAYCRKENSSEICSNNGECVCGOCVCRKRDNTNEIYSGKF	552
Callithrix_jacchus	EGRVGRHCECSTDEVNSEDMDAYCRKENSSEICSNNGECICGOCVCRKRDNTNEIYSGKF	838
Homo_sapiens	EGRVGRHCECSTDEVNSEDMDAYCRKENSSEICSNNGECVCGQCVCRKRDNTNEIYSGKF	552
Mus musculus	EGRVGRHCECSIDEVNSEDMDAYCRKENSSEICSNNGECVCGQCVCRKRDNINEIISGKF	552
_	EGRVGRHCECSIDEVNSEDMDAICKRENSSEICSNNGECVCGQCVCRKRDNINEIISGKF EGRVGRHCECSIDEVNSEDMDAYCRKENSSEICSNNGECVCGQCVCRKRDNINEIYSGKF	552
Heterocephalus_glaber		
Bos_taurus	EGRVGRHCECSTDEVNSEDMDAYCRKENSSEICSNNGECVCGQCVCRKRDNTNEIYSGKF	553
Equus_caballus	EGRVGRHCECSTDEVNSEDMDAYCRKENSSEICSNNGECVCGQCVCRKRDNTNEIYSGKF	559
Pteropus_alecto	EGRVGRHCECSTDEVNSEDMDAYCRKENSSEICSNNGECVCGQCVCRKRDNTNEIYSGKF	495
Ornithorhynchus_anatinus		553
Rhinatrema_bivittatum	EGRIGRLCECSTDEVNSEDMDAYCRKENSSEICSNNGECICGQCVCKKRENTNEIYSGKY	475
Xenopus_tropicalis	EGRIGKECECSTDEVNSEDMDAYCRRENSSEICSNNGDCICGQCVCKKRDNPNEVYSGKY	552
	790800810820830840	
	******* * * * *******	
Pavo_muticus	CECDNFNCDRSNGLICGGNGICKCRVCECFPNFTGSACDCSLDTTPCLAANGQICNGRGT	615
Pavo_cristatus	CECDNFNCDRSNGLICGGNGICKCRVCECFPNFTGSACDCSLDTTPCLAANGQICNGRGT	615
Anas platyrhynchos	CECDNFNCDRSNGLICGGNGICKCRVCECFPNFTGSACDCSLDTTPCMASNGQICNGRGT	682
Gallus gallus	CECDNFNCDRSNGLICGGNGICKCRVCECFPNFTGSACDCSLDTTPCMAGNGQICNGRGT	617
Chelonia mydas	CECDNFNCDRSNGLICGGNGVCKCRVCECYPNFTGSACDCSLDKSSCMASNGQICNGRGT	617
Pan_troglodytes	CECDNFNCDRSNGLICGGNGVCKCRVCECNPNYTGSACDCSLDTSTCEASNGOICNGRGI	612
Macaca mulatta	CECDNFNCDRSNGLICGGNGVCKCRVCECNPNYTGSACDCSLDTSTCEASNGOICNGRGI	612
Callithrix jacchus	CECDNFNCDRSNGLICGGNGVCKCRVCECYPNYTGSACDCSLDTSTCVASNGQICNGRGI	898
Homo_sapiens	CECDNFNCDRSNGLICGGNGVCKCRVCECNPNYTGSACDCSLDTSTCEASNGQICNGRGI	612
Mus musculus	CECDNFNCDRSNGLICGGNGVCRCRVCECYPNYTGSACDCSLDTGPCLASNGQICNGRGI	612
Heterocephalus_glaber	CECDNFNCDRSNGLICGGNGVCRCRVCECIPNITGSACDCSLDTGPCLASNGQICNGRGV	612
Bos taurus	CECDNFNCDRSNGLICGGNGVCRCRVCECIPNITGSACDCSLDTAPCVASNGQICNGRGV CECDNFNCDRSNGLICGGNGVCKCRVCECNPNYTGSACDCSLDTTSCMAVNGQICNGRGV	613
Equus_caballus	CECDNFNCDRSNGLICGGNGVCKCRVCECNPNYTGSACDCSLDTTSCMATNGQICNGRGI	619
Pteropus_alecto	CECDNFNCDRSNGLICGGNGVCKCRVCECNPDYTGSACDCSLDTTSCMATNGQICNGRGI	555
Ornithorhynchus_anatinus	CECDNFNCDRSNGLICGGNGVCKCRVCECNPNFTGSACDCSLDTSSCLASNGQICNGRGI	613
Rhinatrema_bivittatum	CECDNFNCDRSNGLICGGNGICKCRVCECFSNFTGSACDCSLDTASCEASNGQICNGRGT	535
Xenopus_tropicalis	CECDNFNCDRSNGLICGGKGVCKCRVCECFPNYSGSACDCSEDTSTCMAKNGQICNGRGI	612
	850860870880890900	

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Pavo muticus	CECGTCNCTDPKFQGPTCEMCQTCLGVCAEHKDCVQCRAFSKGEKKETCSQECMHFNMTL	675
Pavo cristatus	CECGTCNCTDPKFQGPTCEMCQTCLGVCAEHKDCVQCRAFSKGEKKETCSQECMHFNMTL	675
Anas_platyrhynchos	CECGTCNCTDPKFQGPTCEMCQTCLGVCAEHKDCVQCRAFDKGEKKETCSQECMHFNMTR	742
Gallus gallus	CECGTCNCTDPKFQGPTCEMCQTCLGVCAEHKDCVQCRAFEKGEKKETCSQECMHFNMTR	677
Chelonia mydas	CECGTCNCTDAKFOGPTCEMCOTCLGVCAEHKDCVQCRAFKKGEKKDTCSQGCKNFSMTL	677
Pan_troglodytes	CECGVCKCTDPKFOGOTCEMCOTCLGVCAEHKECVOCRAFNKGEKKDTCTOECSYFNITK	672
Macaca mulatta	CECGVCKCTDPKFQGQTCEMCQTCLGVCAEHKECVQCRAFNKGEKKDTCTQECSYFNITK	672
Callithrix_jacchus	CECGVCKCTDPKFQGQTCEMCQTCLGVCAEHKECVQCRAFNKGEKKDTCAQECSYFNITK	958
Homo sapiens	CECGVCKCTDPKFQGQTCEMCQTCLGVCAEHKECVQCRAFNKGEKKDTCTQECSYFNITK	672
Mus musculus	CECGACKCTDPKFOGPTCETCOTCLGVCAEHKECVOCRAFNKGEKKDTCAOECSHFNLTK	672
Heterocephalus_glaber	CECGVCKCTDPKFOGOTCETCOTCLGVCAEHKECVOCRAFNKGEKKDRCAEECSHFNLTK	672
Bos taurus	CECGACKCTDPKFQGPTCEMCQTCLGVCAEHKECVQCRAFNKGEKKDTCAQECSHFNITK	673
Equus_caballus	CECGACKCTDPKFQGPTCEMCQTCLGVCAEHKECVQCRAFNKGEKKDTCAQECSHFNITK	679
Pteropus alecto	CECGTCKCTDPKFQGPTCEMCQTCLGVCAEHKECVQCRAFNKGEKKDTCAQECSHFNITK	615
Ornithorhynchus anatinus	CECGSCKCTDPKFOGPTCEMCOTCLGVCAEHKECVOCRAFDKGEKKDTCVOECSHFNMTL	673
Rhinatrema bivittatum	CECGRCKCTDPKFQGATCEMCOTCPGVCAEHKECVQCRAFKKGEKKDTCMQECMYFNMTT	595
Xenopus tropicalis	CDCGRCKCTDPKFQGPTCELCQTCVGVCTEHKECVQCRAFQKGEKQEVCLEQCMHFNISL	672
	910920930940950960	
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Pavo_muticus	VESRDKLPQPGQPDPLSHCKEKDVDDCWFYFTYSVNSNGEANVHVVETPECPSGPDIIPI	735
Pavo_cristatus	VESRDKLPQPGQPDPLSHCKEKDVDDCWFYFTYSVNSNGEANVHVVETPECPSGPDIIPI	735
Anas_platyrhynchos	VESRDKLPQPGQPDPLSHCKEKDVDDCWFYFTYSVNSNGEANVHVVETPECPSGPDIIPI	802
Gallus_gallus	VESRDKLPQPGQPDPLSHCKEKDVDDCWFYFTYSVNSNGEASVHVVETPECPSGPDIIPI	737
Chelonia_mydas	VESRDKLPQPGQPDPLTHCKEKDVDDCWFYFTYSVNANNDAIVHVVETPECPTGPDIIPI	737
Pan_troglodytes	VESRDKLPQPVQPDPVSHCKEKDVDDCWFYFTYSVNGNNEVMVHVVENPECPTGPDIIPI	732
Macaca_mulatta	VESRDKLPQPVQPDPVSHCKEKDVDDCWFYFTYSVNGNNEVMVHVVENPECPTGPDIIPI	732
Callithrix_jacchus	VESREKLPQPVQPDPVSHCKEKDVDDCWFYFTYSVNGNNEIMVHVVENPECPTGPDIIPI	1018
Homo_sapiens	VESRDKLPQPVQPDPVSHCKEKDVDDCWFYFTYSVNGNNEVMVHVVENPECPTGPDIIPI	732
Mus_musculus	VESREKLPQPVQVDPVTHCKEKDIDDCWFYFTYSVNGNNEAIVHVVETPDCPTGPDIIPI	732
Heterocephalus_glaber	VESRDKLPQPVQVDPLSHCKEKDVDDCWFYFTYSVNGNNEAIVHVVETPDCPTGPDIIPI	732
Bos_taurus_	VENRDKLPQPGQVDPLSHCKEKDVDDCWFYFTYSVNGNNEATVHVVETPECPTGPDIIPI	733
Equus_caballus	VENRDKLPQPGQVDPLSHCKEKDVDDCWFYFTYSVNGNNEAIVHVVETPECPTGPDIIPI	739
Pteropus_alecto	VENRDKLPQPGQVDPLSHCKEKDVDDCWFYFTYSVNGNNEAIVHVVETPECPTGPDIIPI	675
Ornithorhynchus_anatinus	VENRDKLPQPGQVDPLSHCKEKDADDCWFYFTYSVNGNNEAIVHVVETPECPTGPDIIPI	733
Rhinatrema_bivittatum	VENSKKLPQPGQADALTHCKEKDAEDCWFYFTYSVNGNGEVLVHVVETPECPSGPDIIPI	655
Xenopus_tropicalis	VESREDLPQPGQAEALTHCKEKDAEDCWFYFTYSVDSKNEVLVHVVKEPECPSGPDIIPI	732
	97098099010101020	

Pavo muticus	VAGVVAGIVLIGLALLLIWKLLMIIHDRREFAKFEKEKMNAKWDTGENPIYKSAVTTVVN	795
Pavo cristatus	VAGVVAGIVLIGLALLLIWKLLMIIHDRREFAKFEKEKMNAKWDTGENPIYKSAVTTVVN	795
Anas platyrhynchos	VAGVVAGIVLIGLALLLIWKLLMIIHDRREFAKFEKEKMNAKWDTGENPIYKSAVTTVVN	862
Gallus gallus	VA <mark>G</mark> VVA <mark>G</mark> IVLI <mark>G</mark> LALLLIW <mark>K</mark> LLMIIHDRREFAKFEKEKMNAKWDTQENPIYKSPINNFKN	797
Chelonia mydas	VAGVVAGIVLIGLALLLIWKLLMIIHDRREFAKFEKEKMNAKWDTGENPIYKSAVTTVVN	797
Pan troglodytes	VA <mark>G</mark> VVA <mark>G</mark> IVLI <mark>G</mark> LALLLIW <mark>K</mark> LLMIIHDRREFAKFEKEKMNAKWDTQENPIYKSPINNFKN	792
Macaca mulatta	VA <mark>G</mark> VVA <mark>G</mark> IVLIGLALLLIW <mark>K</mark> LLMIIHDRREFAKFEKEKMNAKWDTQENPIYKSPINNFKN	792
Callithrix jacchus	VA <mark>G</mark> VVA <mark>G</mark> IVLIGLALLLIW <mark>K</mark> LLMIIHDRREFAKFEKEKMNAKWDTQENPIYKSPINNFKN	1078
Homo_sapiens	VAGVVAGIVLIGLALLLIWKLLMIIHDRREFAKFEKEKMNAKWDTGENPIYKSAVTTVVN	792
Mus_musculus	VAGVVAGIVLIGLALLLIWKLLMIIHDRREFAKFEKEKMNAKWDTGENPIYKSAVTTVVN	792
Heterocephalus_glaber	VA <mark>G</mark> VVA <mark>G</mark> IVLI <mark>G</mark> LALLLIW <mark>K</mark> LLMIIHDRREFAKFEKEKMNAKWDTGENPIYKSAVTTVVN	792
Bos_taurus	VAGVVAGIVLIGLALLLIWKLLMIIHDRREFAKFEKEKMNAKWDTQENPIYKSPINNFKN	793
Equus_caballus	VAGVVAGIVLIGLALLLIWKLLMIIHDRREFAKFEKEKMNAKWDTQENPIYKSPINNFKN	799
Pteropus_alecto	VAGVVAGIVLIGLALLLIWKLLMIIHDRREFAKFEKEKMNAKWDTGENPIYKSAVTTVVN	735
Ornithorhynchus_anatinus	VAGVVAGIVLIGLALLLIWKLLMIIHDRREFAKFEKEKMNAKWDTQENPIYKSPINKFKN	793
Rhinatrema_bivittatum	VAGVVAGIVLIGLALLLIWKLLMIIHDRREFAKFEKEKMNAKWDTQENPIYKSPINNFKN	715
Xenopus_tropicalis	VAGVVAGIVLIGLALLLIWKLLMIIHDRREFAKFEKEKMNAKWDTQENPIYKSPINNFKN	792
	103010401050106010701080	

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Pavo_muticus	PKYEGK	801
Pavo_cristatus	PKYEGK	801
Anas_platyrhynchos	PKYEGK	868
Gallus_gallus	<mark>PNYG</mark> RKAGL	806
Chelonia_mydas	PKYEGK	803
Pan_troglodytes	PNYGRKAGL	801
Macaca_mulatta	<mark>PNYG</mark> RKAGL	801
Callithrix_jacchus	<mark>PNYG</mark> RKAGL	1087
Homo_sapiens	PKYEGK	798
Mus_musculus	PKYEGK	798
Heterocephalus_glaber	PKYEGK	798
Bos_taurus	<mark>PNYGRKAGL</mark>	802
Equus_caballus	PNYGRKAGL	808
Pteropus_alecto	PKYEGK	741
Ornithorhynchus_anatinus	PNYGRKAGL	802
Rhinatrema_bivittatum	<mark>PNYG</mark> RKAAL	724
Xenopus_tropicalis	<mark>PNYG</mark> RKAAL	801
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