File: /home/ceglab2/Desktop/ajinkya/pavo/MS**PADA: II4:ps**Feb 15 17:02:59 2022 Page 1 of 5

Pavo_muticus Pavo cristatus		
Gallus gallus	MRGNYINRSEGSKFPIYRALPAPAEGGAVPTRRPRSQPEGSGVYKAQDWRPEGTAAPGFT	60
Anas_platyrhynchos		
Chelonia_mydas		
Xenopus_tropicalis Rhinatrema bivittatum		
Bos_taurus		
Equus_caballus		
Pteropus_alecto		
Homo_sapiens		
Pan_troglodytes Macaca_mulatta		
Callithrix jacchus		
Mus_musculus		
Ornithorhynchus_anatinus		
Latimeria_chalumnae	1 10 00 10 10 60	
	1102030405060	
	:	
Pavo_muticus	<mark>MKA</mark> RRAC <mark>G</mark> LT	10
Pavo_cristatus Gallus gallus	MKARRACGLTMKARRSRPAGGAALRARRSFWGIOSERREDESAARLRPDAAVSAFAAGNGRSDGERGWRGVSGCW	10 120
Anas platyrhynchos	MTALRSFGLT	10
Chelonia mydas	MAALRIFGLT	10
Xenopus_tropicalis	<mark>MKVDPI</mark> R <mark>IFGL</mark> T	12
Rhinatrema_bivittatum	MAALRIFGST	10
Bos_taurus Equus caballus	MAVAS <mark>R</mark> RAS <mark>G</mark> WALLLMAAAS <mark>RS</mark> AS <mark>G</mark> WALLL	15 15
Pteropus_alecto	MAAASRSASGWALLF	15
Homo_sapiens	<mark>maaa</mark> s <mark>rs</mark> as <mark>g</mark> walll	15
Pan_troglodytes	<mark>MAAA</mark> S <mark>RS</mark> AS <mark>G</mark> WALLL	15
Macaca_mulatta	<u>Maaa</u> s <mark>Ws</mark> as <mark>c</mark> walll	15
Callithrix_jacchus Mus musculus	MAAAS <mark>RS</mark> AS <mark>G</mark> WALLLMTPASRSACRWALLL	15 15
		9
Latimeria_chalumnae	MEFLRIFGIA	10
	708090100110120	
	**.** * . * . * * * **.** . *	
Pavo muticus	LLLVLLQQSASGSGVFQLKLHEFVNSRGALASGELCTPHCRTFFRVCLKHFQAVV	65
Pavo_cristatus	LLLVLLQQSAS <mark>GSG</mark> VFQLKLH <mark>E</mark> FVNS <mark>RG</mark> ALA <mark>SGELCTPHCRTFFR</mark> VCLKHFQAVV	65
Gallus_gallus	PRRDGAVLCSFVQSASGSGVFQLKLHEFVNSRGALASGEPCAPHCRTFFRVCLKHFQAVV	180
Anas_platyrhynchos Chelonia mydas	fllmvlqogvagsgvfolelhefvnshgsla <mark>sgkpcaphcrt</mark> ffrvclkhfoavv fllmiloorvsgsgvfolelhefansogslasgkpcsphcrtffrvclkhfoavv	65 65
Xenopus_tropicalis	FLLILVKQVSSSGVFQLELHEFINTNGMLVNGKSCLPNCRTFFKICLKHYQTVV	66
Rhinatrema_bivittatum	FLFMIFQQVSCSGVFQLELQEFENSDGLLANGKSCLPDCRTFFWICLKHFQMVV	64
Bos_taurus	LVALW-QQPAAGSGVFQLQLQEFANERGVLASGRPCEPGCRTFFRVCLKHFQAVV	69
Equus_caballus	LVALW-QQRAAGSGVFQLQLQEFANERGVLASGRPCEPGCRTFFRVCLKHFQAVV	69
Pteropus_alecto Homo_sapiens	LVALW-QQRAAGSGVFQLQLREFA <mark>NERG</mark> VLA <mark>SGRPCEPGCRT</mark> FFRVCLMHFQAVF LVALW-QQRAAGSGVFQLQLQEFINERGVLASGRPCEPGCRTFFRVCLKHFQAVV	69 69
Pan troglodytes	LVALW-QQRAAGSGVFQLQLQEFINERGVLASGRPCEPGCRTFFRVCLKHFQAVV	69
Macaca_mulatta	LVALW-QQRAAGSGVFQLQLQEFVNERGVLASGRPCEPGCRTFFRVCLKHFQAVV	69
Callithrix_jacchus	LVALW-QQRAA <mark>GSG</mark> VFQLQLQEFV <mark>NERG</mark> VLA <mark>SGRPCEPGCRT</mark> FFRV <mark>CLKHFQ</mark> AVV	69
Mus_musculus	LAVLWPQQRAAGSGIFQLRLQEFVNQRGMLANGQSCEPGCRTFFRICLKHFQATF	70
Ornithorhynchus_anatinus Latimeria chalumnae	LDH <mark>GAAGSG</mark> VFQLQLRDFANEGGLLA <mark>SGR</mark> SCQPHCRTFFRVCLKHFQAVV ILLRTLHQVS <mark>GSG</mark> VFQLRLQEFDNVQSLLQDGSSCLPSCRAFFRVCLKHFQTVV	59 64
nacimeria_charumnae	130140150160170180	0.1

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                                                                                .*::****** :*:* *:*::
                                   SPGSCTFGSIITPVLGVNSFSIR--DTERFDSPIKLPFNFTWPGTFSLIIQAWHAPANYL
Pavo_muticus
                                                                                                                             123
                                    <mark>spg</mark>sctfgsiitpvlgvnsfsir--dterfds<mark>p</mark>ikl<mark>pfnftwpgtfs</mark>liiqawha<mark>p</mark>anyl
Pavo_cristatus
                                                                                                                             123
                                   <mark>spg</mark>sctfgsiitpvlgvnsfsir--dterfdspikl<mark>pfnftwpgt</mark>fsliiqawhapanyl
Gallus_gallus
                                                                                                                             238
                                    <mark>SPGPCTFGS</mark>II<mark>TP</mark>VL<mark>GTNS</mark>FSV<mark>K</mark>--D<mark>T</mark>EKFDS<mark>P</mark>IKL<mark>PFNFTWPGTFS</mark>LIIQAWHAPANYL
Anas_platyrhynchos
                                                                                                                             123
                                   S<mark>PGSCTFGSIVTPVLGVNS</mark>FSVK--ETERFGSPIKL<mark>PFNFTWPGTFSLIIEAWHAP</mark>ANYL
SPGSCTFGSVITPVLGSNTFSIK--GMEGFTNPIKLPFNFTWPKTFSLIIEAFHSPTDLS
SPGPCTFGSVVT<mark>P</mark>VLGTNSFSVK--ALEGFSSPLKL<mark>PFNFTWPGTFS</mark>LIIEAFHAPSDYL
Chelonia_mydas
                                                                                                                             123
                                                                                                                             124
Xenopus_tropicalis
Rhinatrema_bivittatum
                                                                                                                             122
                                   S<mark>PGPCTFGSVSTPVLGTNSFAVGDNSSGGGRNPLQLPFNFTWPG</mark>TFSLIIEAWHA<mark>PG</mark>DDL
S<mark>PGPCTFGSVSTP</mark>VLGTNSFAVGDDSSGGGRNPLQL<mark>PFNFTWPG</mark>TFSLIIEAWHAPGDDL
                                                                                                                             129
Bos_taurus
Equus caballus
                                                                                                                             129
                                   <mark>spgpCTFGSVSTP</mark>VL<mark>GTNSFAVGDDSSGGGRNP</mark>LQL<mark>PFNFTWPGT</mark>FSLIIEAWHA<mark>PGD</mark>DL
                                                                                                                             129
Pteropus alecto
                                    S<mark>PGPCTFGTVSTP</mark>VL<mark>GTNSFAVRDDSSGGGRNP</mark>LQLPFNFTWPGTFSLII<mark>E</mark>AWHAPGDDL
                                                                                                                             129
Homo_sapiens
Pan_troglodytes
                                    S<mark>PGPCTFGTVSTP</mark>VL<mark>GTNSFAVRDDSSGGGRNPLQLPFNFTWPGTFS</mark>LII<mark>E</mark>AWHA<mark>PGD</mark>DL
                                                                                                                             129
                                   <mark>spgpctfgsvstp</mark>vlgtnsfavrddssgggrnplqlpfnftw<mark>pg</mark>tfsliieawhapgddl
                                                                                                                             129
Macaca_mulatta
Callithrix_jacchus
                                    S<mark>PGPCT</mark>FGSVSTPVLGTNSFAVRDDSSGGGRN<mark>P</mark>LQLPFNFTWPGTFSLIIEAWHA<mark>PG</mark>DDL
                                                                                                                             129
                                   S<mark>EGPCTFG</mark>NVSTPVLGTNSFVVRDKNSGSGRNPLQLPFNFTWPGTFSLNIQAWHTPG</mark>DDL
S<mark>PGPCTFGT</mark>VSTPVLGVDSFAVRDESHGGRRNPLQLPFNFTWPGTFSLIIEAWHAPGD</mark>NL
                                                                                                                             130
Mus musculus
Ornithorhynchus_anatinus
                                                                                                                             119
                                   <mark>TPGDCTFGSVLTP</mark>VL<mark>GSRS</mark>FQVE---DESFR<mark>NPIQLPFNFTWPGSFT</mark>LIIEAWFSLADSQ
Latimeria chalumnae
                                                                                                                             121
                                    ......190......200......210......220......230......240
                                                    **:. *: * ** * * : .
                                                                                           :* :****:*.:.**
                                   PQGSRLPPEEWLISQMAIQRSLAVGEVWSQDVQSS-PLTQLRYSYRVVCSENYYGESCSR
PQGSRLPPEEWLISQMAIQRSLAVGEVWSQDVQSS-PLTQLRYSYRVVCSENYYGESCSR
Pavo_muticus
                                                                                                                             182
                                                                                                                             182
Pavo_cristatus
                                   PQGSRPPPEEWLISQMAIQRSLAVGEVWSQDVQSS-PLTQLRYSYRVVCSENYYGESCSR
                                                                                                                             297
Gallus gallus
                                   PQGSQLPSEDWLISQMAIQRSLAVGEDWSQDVQKG-PLTQLRYSYRVVCSENYYGDSCSR
PEGSRAPAEEWLISQVAIQRPLAVGENWSQDVQSS-SQTQLRFSYRVICSEHYYGDSCSR
Anas_platyrhynchos
                                                                                                                             182
Chelonia_mydas
                                                                                                                             182
                                    -----QQEIKISQFTIQK<mark>P</mark>LNVGEEWSRDIQSGGSQIQLKFSYRVVCSENYYGESCSR
                                                                                                                             177
Xenopus_tropicalis
                                   PAAAGSIDRALSISQFAIQRPLAVGEAWLPDVQQG-PQTQLRYSYRVICSEHYYGESCTR
RPEA--LPPDALISKIAIQGSLAVGQNWLLDEQTSPL-TRLRYSYRVICSDNYYGDSCSR
RPEA--LTPDALISKIAIQGSLAVGQNWLLDEQTSLL-TRLRYSYRVICSDNYYGDSCSR
Rhinatrema_bivittatum
                                                                                                                             181
Bos_taurus
                                                                                                                             186
Equus_caballus
                                                                                                                             186
                                   RPEA--MPPNALISKITIQGSLAVGQNWLLDEQTGPLPTRLSYSYRVICGDNYYGDSCSR
                                                                                                                             187
Pteropus_alecto
                                   RPEA--LPPDALISKIAIQGSLAVGQNWLLDEQTSTL-TRLRYSYRVICSDNYYGDNCSR
RPEA--LPPDALISKIAIQGSLAVGQNWLLDEQTSTL-TRLRYSYRVICSDNYYGDNCSR
Homo_sapiens
                                                                                                                             186
Pan_troglodytes
                                                                                                                             186
                                   RPEA--LPPDALISKIAIQGSLAVGQNWLLDEQTSTL-TRLRYSYRVICSDNYYGDNCSR
Macaca mulatta
                                                                                                                             186
Callithrix_jacchus
                                   RPEA--LPSDALISKIAIQGSLAVGQNWLLDEQTSTL-TRLRYSYRVICSDNYYGDNCSR
                                                                                                                             186
Mus_musculus RPET--SPGNSLISQIIIQGSLAVGKIWRTDEQNDTL-TRLSYSYRVICSDNYYGESCSR
Ornithorhynchus_anatinus PAGP--QSADALISKMAIQRPLAVGEDWSLDEQSGPR-TRLRYSYRVICSDHYYGDSCSR
                                                                                                                             187
                                                                                                                             176
Latimeria_chalumnae
                                   PADT--KNPALLISRVAIKNQLAVGVEWFQDFHGDQQ-AKLRFSYRVICSEDYYGKNCSS
                                                                                                                             178
                                    ......250......260......270......280......290......300
                                   *** *:* **** *:.:* :*: ** *:** *: * * : .* *.*. ** * .***
                                   LCKRRDDRFGHYVCEADGSLTCLPGWTGEYCTKPICLSGCAEQNGYCTKPGECICRSGWQ
                                                                                                                             242
Pavo muticus
                                   LCKRRDDRFGHYVCEADGSLTCLPGWTGEYCTKPICLSGCAEQNGYCTKPGECICRSGWQ
Pavo cristatus
                                                                                                                             242
                                   LCKRRDDRFGHYVCEADGSLTCLPGWTGEYCTKPICLSGCAEQNGYCTKPGECICRSGWQ
                                                                                                                             357
Gallus_gallus
                                   LCKRRDDRFGHYVCEADGSLACLPGWTGEYCTEPICLSGCTEQNGYCNKPGECICRPGWQ
LCKRRDDPFGHYVCEPDGSLACLPGWTGEYCTEPICLSGCTEQNGYCNKPGECICRPGWQ
Anas_platyrhynchos
                                                                                                                             242
Chelonia_mydas
                                                                                                                             242
                                   LCKPRDDRFGHYLCEPDGRVSCLKGWKGEYCAEPICLDGCSEQNGYCNKPGECTCRPGWQ
                                                                                                                             237
Xenopus tropicalis
                                   LCKARDDTFGHYVCEPDGTLTCLPGWTGEYCSDP1CLTGCSEINGKCKKPGECICLPGWQ
Rhinatrema_bivittatum
                                                                                                                             241
                                   LCKKRNDHFGHYVCQPDGSLSCLPGWTGEYCEQPICLSGCHEQNGYCSKPAECICRPGWQ
                                                                                                                             246
Bos taurus
                                   LCKKRNDHFGHYVCQPDGSLSCLPGWTGEYCEQPVCLSGCHEQNGYCSKPAECICRPGWQ
Equus_caballus
                                                                                                                             246
Pteropus_alecto
                                   LCKKRNDHFGHYVCQPNGSLSCLPGWTGEYCDQPICLSGCHEQNGYCSKPAECICRPGWQ
                                                                                                                             247
                                   LCKKRNDHFGHYVCQPDGNLSCLPGWTGEYCQQPICLSGCHEQNGYCSKPAECLCRPGWQ
LCKKRNDHFGHYVCQPDGNLSCLPGWTGEYCQQPICLSGCHEQNGYCSKPAECLCRPGWQ
Homo_sapiens
                                                                                                                             246
Pan_troglodytes
                                                                                                                             246
                                   LCKKRNDHFGHYVCQPDGNLSCLPGWTGEYCQQPICLSGCHEQNGYCSKPAECLCRPGWQ
Macaca mulatta
                                                                                                                             246
Callithrix_jacchus
                                   LCKKRNDHFGHYVCQPDGNLSCLPGWTGEYCQQPICLSGCHEQNGYCSKPAECLCRPGWQ
                                                                                                                             246
Mus_musculus LCKKRDDHFGHYECQPDGSLSCLPGWTGKYCDQPICLSGCHEQNGYCSKPDECICRPGWQOrnithorhynchus_anatinus LCKRRDDHFGHYVCQADGSLSCLPGWTGEYCDQPVCLAGCTEQTGYCNKPGECLCRPGWQO
                                                                                                                             247
                                                                                                                             236
                                   LCKPRDDHFGHYNCDADGQ<mark>PTCFPG</mark>WEGKYCQT<mark>P</mark>ICL<mark>SGC</mark>SK<mark>QN</mark>GYCNKTDECICRPGWQ
Latimeria_chalumnae
                                                                                                                             238
                                    .....310.....320......330......340......350......360
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rage 5 or 5		
	** * ** ** * . * * **** * * * * * * * * * * * * * * * * * * * *	
Pavo muticus	GRYCDECIPHIGCRHGTCKTOWOCICDEGWGGLFCDODLNYCTHHRPCKNGATCMNTGOG	302
Pavo_muticus Pavo cristatus	GRYCDECIPHIGCRHGTCKTQWQCICDEGWGGLFCDQDLNYCTHHRPCKNGATCMNTGQG	302
Gallus_gallus	GRYCDECIPHIGCRHGTCKTQWQCICDEGWGGLFCDQDLNYCTHHRPCKNGATCMNTGQG GRYCDECIPHIGCRHGTCKTQWQCICDEGWGGLFCDQDLNYCTHHRPCKNGATCMNTGQG	302 417
Anas_platyrhynchos	GRYCDECIPHIGCRHGTCKTQWQCICDEGWGGLFCDQDLNYCTHHKPCKNGATCMNTGQG	302
Chelonia_mydas	GRYCDECIPHIGCRHGTCKTQWQCICDEGWGGLFCDQDLNYCTHHKPCKNGATCLNTGQG	302
Xenopus_tropicalis	GRFCNECIPHNGCRHGTCQIQWQCICDEGWGGLFCDQDLNYCTHHKPCKNGATCMNTGQG	297
Rhinatrema_bivittatum	GRFCDECIPHMGCRHGSCKIPWQCICDEGWGGLFCDQDLNYCTHHKPCKNGATCTNTGQG	301
Bos_taurus	GRLCNECIPHNGCRHGTCSTPWQCTCDEGWGGLFCDQDLNYCTHHSPCKNGATCSNSGQR	306
Equus_caballus	GRLCNECIPHNGCRHGTCNTPWQCTCDEGWGGLFCDQDLNYCTHHSPCKNGATCSNSGQR	306
Pteropus_alecto	GRLCNECIPHNGCRHGTCTTPWQCTCDEGWGGLFCDQDLNYCTHHSPCKNGATCSNSGQR	307
Homo_sapiens	GRLCNECIPHNGCRHGTCSTPWQCTCDEGWGGLFCDQDLNYCTHHSPCKNGATCSNSGQR	306
Pan_troglodytes	GRLCNECIPHNGCRHGTCSTPWQCTCDEGWGGLFCDQDLNYCTHHSPCKNGATCSNSGQR	306
Macaca_mulatta	GRLCNECIPHNGCRHGTCSTPWQCTCDEGWGGLFCDQDLNYCTHHSPCKNGATCSNSGQR	306
Callithrix_jacchus	GRLCNECIPHNGCRHGTCSIPWQCTCNEGWGGLFCDQDLNYCTHHSPCKNGATCSNSGQR	306
Mus_musculus	GRLCNECIPHNGCRHGTCSIPWQCACDEGWGGLFCDQDLNYCTHHSPCKNGSTCSNSGPK	307
Ornithorhynchus_anatinus	GRLCDRCIPHVGCRHGTCSIPWQCTCDEGWGGLFCDQDLNYCTHHTPCKNGATCSNTGQG	296
Latimeria_chalumnae	GRFCDKCVRYPGCVHGTCEKPWDCQCVEGWGGILCDHDLNYCTHHKPCQNGATCLNTGQG	298
	370380390410420	
_	*** * **: * .* * : : * * * * * * * * * *	
Pavo_muticus	SYTCSCKPGFTGVDCEHEISECDSNPCRNGGSCTDMENGYRCVCPPGYYGAHCEHSALTC	362
Pavo_cristatus	SYTCSCKPGFTGVDCEHEISECDSNPCRNGGSCTDMENGYRCVCPPGYYGAHCEHSALTC	362
Gallus_gallus	SYTCSCKPGFTGVDCEHEISECDSNPCRNGGSCTDMENGYRCVCPPGYYGAHCEHSALTC	477
Anas_platyrhynchos	SYTCSCKPGFTGVDCEHEISECDSNPCRNGGSCTDLENGYHCLCPPGYYGTHCEHSALTC	362
Chelonia_mydas	SYTCSCKPGFTGVDCEHEISECDSNPCRNGGSCTDMENGYHCLCPPGYYGAHCEHSALTC	362
Xenopus_tropicalis	SYTCSCPPGFSGVNCEDKIRECDSNPCRNGGSCRDLENGYRCECPQGYDGSHCEKSVLNC	357
Rhinatrema_bivittatum	SYTCSCKPGFSGVDCEHKISECDSNPCRNGGSCTDMENSYICECPQGYYGVHCENSALNC	361
Bos_taurus_	SYTCTCRPGYTGVDCELELSECDSNPCRNGGSCKDQEDGYHCLCPPGYYGLHCEHSTLSC	366
Equus_caballus	SYTCTCRPGYTGVDCELELSECDSNPCRNGGSCKDQEDGYHCLCPPGYYGLHCEHSTLSC	366
Pteropus_alecto	SYTCICRPGYTGVDCELKLSKCDSNPCRNGGSCKDQEDGYHCLCPPGYYGLHCEHSTLSC	367
Homo_sapiens	SYTCTCRPGYTGVDCELELSECDSNPCRNGGSCKDQEDGYHCLCPPGYYGLHCEHSTLSC	366
Pan_troglodytes	SYTCTCRPGYTGVDCELELSECDSNPCRNGGSCKDQEDGYHCLCPPGYYGLHCEHSTLSC	366
Macaca_mulatta	SYTCTCRPGYTGVDCELELSECDSNPCRNGGSCKDQEDGYHCLCPPGYYGLHCEHSTLSC	366
Callithrix_jacchus	SYTCSCRPGYTGVDCELELSECDSNPCRNGGSCKDQEDGYHCLCPPGYYGVHCEHSTLSC	366
Mus_musculus	GYTCTCLPGYTGEHCELGLSKCASNPCRNGGSCKDQENSYHCLCPPGYYGQHCEHSTLTC	367
Ornithorhynchus_anatinus		356
Latimeria_chalumnae	SYTCTCKPGFSGVDCEHKISECDSSPCRNGGSCKDLENGYECRCPPRYSGFHCEHRTLTC	358
	430440450460470480	
	· ***** *   *   *   * ********** ** * *   · *	
Danie mutiene	· · · · · · · · · · · · · · · · · · ·	400
Pavo_muticus	IDSPCFNGGTCLEKEQGASYTCICPFGFTGSNCEKKVDRCTSNPCANDGNCFYLGQIRVC	422
Pavo_cristatus	IDSPCFNGGTCLEKEQGASYTCVCPFGFTGSNCEKKVDRCTSNPCANDGNCFYLGQIRVC	422
Gallus_gallus	IDSPCFNGGTCLEKEQGASYTCVCPFGFTGSNCEKKVDRCTSNPCANDGNCFYLGQIRVC	537
Anas_platyrhynchos	IDSPCFNGGTCLEKEQGASYTCVCPFGFTGSNCEKKVDRCTSNPCANDGNCFYLGQIHVC	422
Chelonia_mydas	VDSPCFNGGTCLEKDQGASYTCRCPLGFTGSNCEKKVDKCTSNPCANGGHCFDLGQLRVC	422
Xenopus_tropicalis	GNSPCFNGGTCREREVGASYTCQCPLGFTGSNCEKKVDKCTRNPCLNGGQCFDFGKTQLC	417
Rhinatrema_bivittatum	ADSPCFNGGTCRERELGASYTCVCPLGFTGSNCEKKVDRCTSNPCLNGGQCFDLGHTRVC	421
Bos_taurus	ADSPCFNGGSCRERNQGTSYACECPPNFTGSNCEKKVDRCTSNPCANGGQCLNRGPNRVC	426
Equus_caballus	ADSPCFNGGSCQERNQGASYACECPPNFTGSNCEKKVDRCTSNPCANGGQCLSRGPTRMC	426
Pteropus_alecto	ADSPCFNGGSCRERNQGASYACECPPSFTGSNCEKKVDRCTSNPCANGGQCLNRGPNRIC	427
Homo_sapiens	ADSPCFNGGSCRERNQGANYACECPPNFTGSNCEKKVDRCTSNPCANGGQCLNRGPSRMC	426
Pan_troglodytes	ADSPCFNGGSCRERNQGANYACECPPNFTGSNCEKKVDRCTSNPCANGGQCLNRGPSRMC	426
Macaca_mulatta	ADSPCFNGGSCRERNQGASYACECPPNFTGSNCEKKVDRCTSNPCANGGQCLNRGPSRMC	426
Callithrix_jacchus	ADSPCFNGGSCRERNQGASYACECPPTFTGSNCEKKVDRCTSNPCANGGQCLNRGPSRMC	426
Mus_musculus	ADSPCFNGGSCRERNQGSSYACECPPNFTGSNCEKKVDRCTSNPCANGGQCQNRGPSRTC	427
Ornithorhynchus_anatinus		416
Latimeria_chalumnae	ADFPCFNGGSCLEISKGNSYSCVCPFGFTGSNCEKKVDRCTSNPCENGGVCYDIGHKRFC	418
	490500510520530540	

File: /home/ceglab2/Desktop/ajinkya/pavo/MS**PARA: II4:ps**Feb 15 17:02:59 2022 Page 4 of 5

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Pavo muticus	RCRAGFSGQKCEININDCARSPCSNGGTCHDLINDYTCTCLPGYSGRNCDIKTR-DECAS	481
Pavo cristatus	RCRAGFSGQKCEININDCARSPCSNGGTCHDLINDYTCTCLPGYSGRNCDIKTR-DECAS	481
Gallus_gallus	RCRAGFSGQKCEININDCARSPCSNGGTCHDLINDYTCTCLPGYSGRNCDIKTR-DECAS	596
Anas_platyrhynchos	RCRPGFSGKKCEININDCARNPCSNGGTCHDLINDYTCTCLPGYSGRNCDIKTR-DECAS	481
Chelonia mydas	RCRTGFSGQKCEININECARNPCSNGGSCHDLINDYTCTCLPGYTGRNCDIKTR-DECAS	481
Xenopus tropicalis	RCRPGFTGPTCAINIDDCAKNPCLNGGICTDAVNDYYCDCPPGYRGRTCNVKTIECIL	475
Rhinatrema bivittatum	RCRSGFTGPKCEVNINDCYRNPCSNGGSCRDLINDYDCTCMAGYSGKNCDVRIG-DECAF	480
Bos_taurus	RCRPGFTGAHCEINISDCARSPCVHGGTCHDLENGFVCTCPAGFSGRRCEVRMPAEACAS	486
Equus_caballus	RCRPGFTGTHCERHISDCARSPCAHGGTCHDLENGLVCTCPPGFSGRRCEVRTPSDICAS	486
Pteropus_alecto	RCRPGFTGTHCELHISDCARSPCAHGGTCHDLENGLVCTCPAGFSGRRCEVRTPSDACAS	487
Homo_sapiens	RCRPGFTGTYCELHVSDCARNPCAHGGTCHDLENGLMCTCPAGFSGRRCEVRTSIDACAS	486
Pan_troglodytes	RCRPGFTGTYCERHISDCARNPCAHGGTCHDLENGLMCTCPAGFSGRRCEVRTSIDACAS	486
Macaca_mulatta	RCRPGFTGTYCERHVSDCARNPCAHGGTCHDLESGLMCTCPAGFSGRRCEVRTSIDACAS	486
Callithrix_jacchus	RCRPGFTGTYCERHMSDCARNPCAHGGTCHDLENGFMCTCPAGFSGRRCEVPTSSDACAS	486
Mus_musculus	RCRPGFTGTHCELHISDCARSPCAHGGTCHDLENGPVCTCPAGFSGRRCEVRITHDACAS	487
Ornithorhynchus_anatinus		476
Latimeria_chalumnae	RCLSGFTGQRCEFSINKCDQHPCANGGACIDRINDYACICPYGYSGRTCAIGPK-DDCAS	477
	550560570580590600	
	** * .**	
Pavo muticus	GPCENGGTCYSGLYSANFVCYCPSGFMGSRCELPVYSVPITLPPKPVPWIAISMGVG	538
Pavo cristatus	GPCENGGTCYSGLYSANFVCYCPSGFMGSRCELPVYSVPITLPPKPVPWIAISMGVG	538
Gallus gallus	GPCENGGTCYSGLYSANFVCYCPSGFMGSRCELPVYSVPITLPPKPVPWIAISMGVG	653
Anas platyrhynchos	GPCENGGTCYSGLYSANFVCYCPSGFMGSRCELPVYSVPITLPPKPVPWIAISMGVG	538
Chelonia_mydas	GPCQNGATCYGGLYNANFLCNCPYGFMGSRCEFPVYTVPVPYPPKPVPWIAISMGVG	538
Xenopus tropicalis	-PCMNGGTCYIGPYDNNCDCPPGFMGSLCENPIEPKVDFPWVAVFMGAG	523
Rhinatrema_bivittatum	RPCQNGGTCHGGRYDNNFACACPYGFMGSRCEFTVYPVTVTQTPDEDNSFPWVAIFMGAG	540
Bos taurus	GPCFNGATCYPGLPPDNFVCNCPYGFVGSRCEFRMSMPPTFPWVAVSLGVG	537
Equus caballus	GPCFNGATCYTGLSTDSFVCNCPYGFVGSRCEFPVSMPPSFPWVAVSLGVG	537
Pteropus_alecto	GPCYNGATCYTGPSPDNFVCNCPYGFVGSHCEFPVSMPPSFPWVAVSLGVG	538
Homo_sapiens	SPCFNRATCYTDLSTDTFVCNCPYGFVGSRCEFPVGLPPSFPWVAVSLGVG	537
Pan_troglodytes	S <mark>PCFNRATCYT</mark> DLSTDTFVCNCPYGFVGSRCEFPVGLPPSFPWVAVSLGVG	537
Macaca_mulatta	S <mark>PCFN</mark> RATCYTDLSTDTFVCNCPYGFVGSRCEFPVGLPPSFPWVAVSLGVG	537
Callithrix_jacchus	S <mark>PCLNRATCYT</mark> DLSTDTFV <mark>CNCPYGFVGSHCEFP</mark> VGL <mark>PPSFPWVAVSLG</mark> VG	537
Mus_musculus	GPCFNGATCYTGLSPNNFVCNCPYGFVGSRCEFPVGLPPSFPWVAVSLGVG	538
Ornithorhynchus_anatinus		531
Latimeria_chalumnae	GPCLNGGTCSSEPYGIHFVCHCLVSFTGIRCEMPVITVPVPMPPAGFPWMAVSMAVG	534
	$\dots \dots 610 \dots 620 \dots 630 \dots 640 \dots 650 \dots 660$	
Pavo muticus	LVALLILFCMIAMVIROMRMHPQQDLETMNNLSDFQKDNLIPASQLKNTNKNKDLEV	595
Pavo_cristatus	LVALLILFCMIAMVIRQMRMHPQQDLETMNNLSDFQKDNLIPASQLKNTNKNKDLEV	595
Gallus_gallus	LVALLILFCMIAMVIROMRMOPOOD LETMNNLSDFOKDNLIPASOLKNTNKNKDLEV	710
Anas_platyrhynchos	LVALLILFCMIAMVIROMRMHPEQDLETMNNLSDFOKDNLIPASQLKNTNKNKDLEV	595
Chelonia_mydas	LVALLVLFCMIAMVIROMRRHPEQDLETMNNLSDFOKDNLIPASQLKNTNKNKDLEV	595
Xenopus_tropicalis	FVGVLVLLCMVIITFRHFRKQPLHESNTMNNLSDFQKGNLIPASQLKNINKKKDLEV	580
Rhinatrema_bivittatum	LVALLLLFCMIVMVVRHIRKHPQQDTETMNNLSDFQKDNLIPASQLKNTNKKKDLEV	597
Bos_taurus	LVVVLVLLCMVAVAVRQLRLRRPDGGSRE-AMNNLSDFQKDNLIPTAQLKNTNQKKELEV	596
Equus_caballus	LVVVLVLL <mark>G</mark> MVAVAV <mark>RQLR</mark> LRR <mark>PDDDSRE-AMNNLSDFQKDNLIPTAQLKNTNQKKELE</mark> V	596
Pteropus_alecto	LVVVLVLL <mark>G</mark> MVAVAV <mark>RQLR</mark> LRR <mark>PDDGSR</mark> E-AMNNLSDFQKDNLIPAAQLKNTNQKKELEV	597
Homo_sapiens	LAVLLVLL <mark>G</mark> MVAVAV <mark>RQLR</mark> LRR <mark>PDDGSR</mark> E-AMNNLSDFQKDNLIPAAQLKNTNQKKELEV	596
Pan_troglodytes	LAVLLVLL <mark>G</mark> MVAVAV <mark>RQLR</mark> LRR <mark>PDDGS</mark> SE-AMNNLSDFQKDNLIPAAQLKNTNQKKELEV	596
Macaca_mulatta	LAVLLVLL <mark>G</mark> MVAVAV <mark>RQLR</mark> LRR <mark>PDDGSR</mark> E-AMNNLSDFQKDNLIPAAQLKNTNQKKELEV	596
Callithrix_jacchus	LAVLLVLLGMVAVAVRQLRLRRPDDGSRE-AMNNLSDFQKDNLIPAAQLKNTNQKKELEV	596
Mus_musculus	LVVLLVLLVMVVVAVRQLRLRRPDDESRE-AMNNLSDFQKDNLIPAAQLKNTNQKKELEV	597 501
Ornithorhynchus_anatinus Latimeria chalumnae	LVAVLVLLAMVAVAV <mark>RQLR</mark> ARRA <mark>EPGPGGGTMNNL</mark> SDF <mark>QKDNLVPAGQLKNTNQKKELE</mark> V LVALLMFLCLIVIILRHIHRQRGLG-QELEAMNNRSDFQRDNLIPTSQLKNTNKKMDLEV	591 593
natimeria_chaiumnae	670680690710720	533
	/100/20	

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Pavo_muticus	DCVLEKSNY	- <mark>KP</mark> KNHK	L <mark>DYN</mark> LVKDLTS	RGT-HE	D <mark>KYY</mark> K <mark>SEK</mark>	C <mark>LG</mark> D-K	S <mark>PLRLHSEKP</mark>	649
Pavo_cristatus	DCVLEKSNY	- <mark>KP</mark> KNHK	L <mark>DYN</mark> LVKDLTS	RGT-HE	D <mark>kyy</mark> k <mark>sek</mark>	C <mark>LG</mark> D-K	S <mark>PLRLHS</mark> EKP	649
Gallus_gallus	DCGLEKSNY	- <mark>KP</mark> KNHK	L <mark>DYN</mark> LVKDLTS	RGT-QE	D <mark>kyy</mark> k <mark>sek</mark>	C <mark>LGE</mark> -K	S <mark>PLRLHSEKP</mark>	764
Anas_platyrhynchos	DCGLEKSNY	- <mark>KP</mark> KNHK	L <mark>DYN</mark> LVKDLTS	RGT-QE	D <mark>KYY</mark> K <mark>SEK</mark>	C <mark>LG</mark> D-K	S <mark>PLRLHSEKP</mark>	649
Chelonia_mydas	DCGLEKSNY	- <mark>KP</mark> KNHI	L <mark>DYN</mark> LVKDLTS	RGT-QE	D <mark>kyy</mark> k <mark>sek</mark>	C <mark>LGE-</mark> K	<mark>PPLRLYS</mark> EKP	649
Xenopus_tropicalis	DCGIEKSNY	- <mark>K</mark> LK <b>NHT</b>	L <mark>DCNLTHG</mark> MIG	NVS <mark>SGIGKG</mark>	NKFHN <mark>SE</mark> K	CLEEEK	FPLRFHSDKP	639
Rhinatrema bivittatum	NCGLEKSNY	- <mark>K</mark> RK <mark>NH</mark> A	V <mark>D</mark> FNLMKDLTG	GIIGGTGKE	E <mark>KFH</mark> K <mark>GE</mark> K	CLEEEK	S <mark>PLHLHSEKP</mark>	656
Bos_taurus	DCGLDKSNC	GKQQNHT:	L <mark>DYN</mark> LA <mark>PG</mark> LLG	RGILP	GK <mark>YS</mark> H <mark>S</mark> DK	S <mark>LGE-K</mark>	A <mark>PLRIHS</mark> EKP	651
Equus_caballus	DCGLDKSN(	GKQQ <mark>NHT</mark>	L <mark>DYN</mark> LA <mark>PGP</mark> LG	R <mark>GTI</mark> L	GK <mark>YS</mark> HGDK	S <mark>LGE-K</mark>	A <mark>P</mark> LRLHSEKP	651
Pteropus_alecto	DCGLDKSN(	GKQQ <mark>NHT</mark>	L <mark>DYN</mark> LA <mark>PGP</mark> LG	R <mark>GTM</mark> S	GKYSH <mark>S</mark> DK	S <mark>LGE-K</mark>	A <mark>P</mark> LRL <mark>HSEKP</mark>	652
Homo_sapiens	DCGLDKSN(	GKQQ <mark>NHT</mark>	L <mark>DYN</mark> LA <mark>PGP</mark> LG	R <mark>GTMP</mark>	GK <mark>FP</mark> H <mark>S</mark> DK	S <mark>LGE-K</mark>	A <mark>P</mark> LRLHSEKP	651
Pan_troglodytes			L <mark>DYN</mark> LA <mark>PGP</mark> LG					651
Macaca_mulatta	DCGLDKSN(	GKQQNHT:	L <mark>DYN</mark> LA <mark>PGP</mark> LG	R <mark>GTMP</mark>	GKFPH <mark>S</mark> DK	S <mark>LGE-K</mark>	A <mark>P</mark> LRLHSEKP	651
Callithrix_jacchus	DCGLDKSN(	GKQQ <mark>NHT</mark>	L <mark>DYN</mark> LA <mark>PGPP</mark> G	R <mark>GTMP</mark>	GKFPH <mark>S</mark> DK	S <mark>LGE-K</mark>	A <mark>P</mark> LRLHSEKP	651
Mus_musculus			L <mark>DYN</mark> LA <mark>PGLLG</mark>					652
Ornithorhynchus_anatinus	DCGEDKSY	TKPLNGR	H <mark>DPN</mark> LA <mark>P</mark> AAP –	T	A <mark>KYP</mark> L <mark>S</mark> DK	GLGE-K	V <mark>PLRIP</mark> SDRP	641
Latimeria chalumnae		-KQKNRT	L <mark>DYN</mark> LVKDLKD	<mark>G</mark> LLQE	D <mark>KCL</mark> K <mark>SE</mark> K	CLEEEK	V <mark>PLRLHSEQH</mark>	648
_			.740					
	*****:**.	.*****	*: :*:****	*:****				
Pavo muticus		-	*: :*:**** SVFVI <mark>TEERN</mark> E	-			683	
	ECRISAICS	PRDSMYQ	SVFVI <b>TEERNE</b>	CIIATEV			683 683	
Pavo_muticus Pavo_cristatus Gallus gallus	ECRISAICS ECRISAICS	PRDSMYQ	SVFVI <mark>TEERNE</mark> SVFVI <mark>TEERNE</mark>	CIIA <mark>TE</mark> V CIIA <b>TE</b> V				
Pavo_cristatus	ECRISAICS ECRISAICS ECRISAICS	PRDSMYQ PRDSMYQ PRDSMYQ	SVFVI <mark>TEERNE</mark> SVFVI <mark>TEERNE</mark> SVFVI <b>TEERN</b> E	CIIA <mark>TE</mark> V CIIA <mark>TE</mark> V CIIATEV			683	
Pavo_cristatus Gallus_gallus	ECRISAICS ECRISAICS ECRISAICS ECRISAICS	PRDSMYQ PRDSMYQ PRDSMYQ PRDSMYQ	SVFVITEERNE SVFVITEERNE SVFVITEERNE SVFVITEERNE	CIIATEV CIIATEV CIIATEV CIIATEV			683 798	
Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas	ECRISAICS ECRISAICS ECRISAICS ECRISAICS ECRISAICS	PRDSMYQ PRDSMYQ PRDSMYQ PRDSMYQ PRDSMYQ	SVFVITEERNE SVFVITEERNE SVFVITEERNE SVFVITEERNE SVFVITEERNE	CIIATEV CIIATEV CIIATEV CIIATEV CVIATEV			683 798 683	
Pavo_cristatus Gallus_gallus Anas_platyrhynchos	ECRISAICS ECRISAICS ECRISAICS ECRISAICS ECRISAICS ECRISAICS ECRISAICS	PRDSMYQ PRDSMYQ PRDSMYQ PRDSMYQ PRDSMYQ SRDSMYQ	SVFVITEERNE SVFVITEERNE SVFVITEERNE SVFVITEERNE SVFVITEERNE SITVIAEERNE	CIIATEV CIIATEV CIIATEV CIIATEV CVIATEV CVIATEV			683 798 683 683	
Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas Xenopus_tropicalis Rhinatrema_bivittatum	ECRISAICS ECRISAICS ECRISAICS ECRISAICS ECRISAICS ECRISAICS ECRISTICS ECRISTICS	PRDSMYQ: PRDSMYQ: PRDSMYQ: PRDSMYQ: PRDSMYQ: SRDSMYQ: PRDSMYQ:	SVFVITEERNE SVFVITEERNE SVFVITEERNE SVFVITEERNE SVFVITEERNE SITVIAEERNE SIFVIAEERNE	CIIATEV CIIATEV CIIATEV CIIATEV CVIATEV CVIATEV CVIATEV			683 798 683 683 673	
Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas Xenopus_tropicalis Rhinatrema_bivittatum Bos_taurus	ECRISAICS ECRISAICS ECRISAICS ECRISAICS ECRISAICS ECRISTICS ECRISTICS ECRISTICS	PRDSMYQ: PRDSMYQ: PRDSMYQ: PRDSMYQ: PRDSMYQ: SRDSMYQ: PRDSMYQ: PRDSMYQ: PRDSMYQ:	SVFVITEERNE SVFVITEERNE SVFVITEERNE SVFVITEERNE SVFVITEERNE SITVIAEERNE SIFVIAEERNE SVCLISEERNE	CIIATEV CIIATEV CIIATEV CIIATEV CVIATEV CVIATEV CVIATEV CVIATEV			683 798 683 683 673 690 685	
Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas Xenopus_tropicalis Rhinatrema_bivittatum Bos_taurus Equus_caballus	ECRISAICS ECRISAICS ECRISAICS ECRISAICS ECRISAICS ECRISTICS ECRISTICS ECRISTICS ECRISAICS	PRDSMYQ PRDSMYQ PRDSMYQ PRDSMYQ PRDSMYQ SRDSMYQ PRDSMYQ PRDSMYQ PRDSMYQ	SVFVITEERNE SVFVITEERNE SVFVITEERNE SVFVITEERNE SITVIAEERNE SIFVIAEERNE SVCLISEERNE SVCLISEERNE	CIIATEV CIIATEV CIIATEV CIIATEV CVIATEV CVIATEV CVIATEV CVIATEV CVIATEV			683 798 683 683 673 690	
Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas Xenopus_tropicalis Rhinatrema_bivittatum Bos_taurus Equus_caballus Pteropus_alecto	ECRISAICS ECRISAICS ECRISAICS ECRISAICS ECRISTICS ECRISTICS ECRISAICS ECRISAICS ECRISAICS ECRISAICS	PRDSMYQ PRDSMYQ PRDSMYQ PRDSMYQ PRDSMYQ SRDSMYQ PRDSMYQ PRDSMYQ PRDSMYQ PRDSMYQ PRDSMYQ	SVFVITEERNE SVFVITEERNE SVFVITEERNE SVFVITEERNE SITVIAEERNE SIFVIAEERNE SVCLISEERNE SVCLISEERNE SVCLISEERNE	CIIATEV CIIATEV CIIATEV CIIATEV CVIATEV CVIATEV CVIATEV CVIATEV CVIATEV CVIATEV	GLICPSSN	CPPAF	683 798 683 683 673 690 685 685	
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