

CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

File: /home/ceglab2/Desktop/ajinkya/pavo/MSDAAHATFeb 15 16:27:55 2022

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Pavo_muticus	-----	
Pavo_cristatus	-----	
Gallus_gallus	-----	
Anas_platyrhynchos	-----	
Chelonia_mydas	-----	
Homo_sapiens	-----	
Callithrix_jacchus	-----	
Pan_troglodytes	MTAHLEFQVTSLTQLTCTROPQTCNEHTGRGEICTPGSVGTNSRGVSGARGPGPPAGQTRF	60
Macaca_mulatta	-----	
Equus_caballus	-----	
Pteropus_alecto	-----	
Bos_taurus	-----	
Mus_musculus	-----	
Ornithorhynchus_anatinus	-----	
Rhinatrema_bivittatum	-----	
Xenopus_tropicalis	-----	
Latimeria_chalumnae	-----	
	1.....10.....20.....30.....40.....50.....60	

Pavo_muticus	-----	MKNS	4
Pavo_cristatus	-----	MKNS	4
Gallus_gallus	-----	MKNS	4
Anas_platyrhynchos	-----	MVAP	4
Chelonia_mydas	-----		
Homo_sapiens	-----		
Callithrix_jacchus	-----		
Pan_troglodytes	RNAGRALARPLQOHGLLAIAPGAPRVPESEGRGGRAGTAAGACSEADARCAAPPKGS	GGKR	120
Macaca_mulatta	-----		
Equus_caballus	-----		
Pteropus_alecto	-----		
Bos_taurus	-----		
Mus_musculus	-----		
Ornithorhynchus_anatinus	-----		
Rhinatrema_bivittatum	-----		
Xenopus_tropicalis	-----	MFLTTNEATGDGLRLTVQA	19
Latimeria_chalumnae	-----	MQNSGNQKPPQ	10
70.....80.....90.....100.....110.....120		

Pavo_muticus	RAAPRPVMLP--AWEMCAYLFLTIG	SHFYSFYEVYQVS	QKYED	45
Pavo_cristatus	RAAPRPVMLP--AWEMCAYLFLTIG	SHFYSFYEVYQVS	QKYED	45
Gallus_gallus	RAAPRPVVLPL--AWEMCAYLFLTIG	SHFYSFYEAQVS	QKYED	45
Anas_platyrhynchos	GAVVGLLLLLSLVYKSCKSKCSLGEQGVSVPLLCSSGADCEVREAFSPDP-AEKPDYEG			63
Chelonia_mydas	-----MLP--LWEMFLYLLLSLG	FHFYSFCEVYRVS	REYEE	34
Homo_sapiens	-----MLP--RWELALYLLASLG	FHFYSFYEVYKVS	EHEE	34
Callithrix_jacchus	-----MLP--RWELALYLLASLG	FHFYSFYEVYKVS	EHEE	34
Pan_troglodytes	VASRGSPQPP--PMSLGLGSAERGV	LGTRGARERCRRRRPGOPGEHEE		166
Macaca_mulatta	-----MSLGLGSAERGV	LGTRGSRERCRRRRPGOPGEHEE		35
Equus_caballus	-----MLP--RWELALYLLASLG	FHFYSFYEVYKVS	EHEE	34
Pteropus_alecto	-----MLP--RWELSLYLLASLG	FHFYSFFEYKVS	EHEE	34
Bos_taurus	-----MLP--RWELSLYLLASIG	FHFYSFYEVYKVS	EHEE	34
Mus_musculus	-----MLP--GWELTLCLVSLG	FHFYSFYEVYKVS	EHEE	34
Ornithorhynchus_anatinus	-----MLP--PWEMTLYLVLVSLG	FHFYSFYEVYKVS	EHEE	34
Rhinatrema_bivittatum	-----MLL--EWEMLIYLLLSFG	FYLVSFYEVYIVSR	EYEE	34
Xenopus_tropicalis	LDSRTMKVPLPQWELAIYLLVSLG	IHVYSFYEVYLVSK	EHEE	62
Latimeria_chalumnae	KPALRIVRLP--RWEIGIYLVLSFG	SHLYSFYEVHKISR	DYED	51
130.....140.....150.....160.....170.....180			

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	..*.*.:*:***.***.*:*.:.:.*:.*	
Pavo_muticus	EIDRSFGLEQGTFLFWGLKKDALDFEWSYWIEWGREHLLWLLAGHLLVSQMCRLFMDEYKP	105
Pavo_cristatus	EIDRSFGLEQGTFLFWGLKKDALDFEWSYWIEWGREHLLWLLAGHLLVSQMCRLFMDEYKP	105
Gallus_gallus	EIDRSFGLEQGTFLFWGLKKDALDFEWSYWIEWGREYILWLLAGHLLVSQMCRLFMDEYKP	105
Anas_platyrhynchos	DIDRNFGLQGTFLFWGLKKDPLDFEWSYVVEWGRERILWLLAGHLLVSQMCRLFMEKYKP	123
Chelonia_mydas	ELEREFEELEKDTLFWGLKKDPTDFEWSFWMWGWKERI IWLLLGHLMVVSQMSRFLFMEKYKP	94
Homo_sapiens	ELDQEFEELETDTLFGGLKKDATDFEWSFWMWGWKQWLWVLLLGHMVVSQMATLLARKHRP	94
Callithrix_jacchus	ELDQEFEELETDTLFGGLKKDATDFEWSFWMWGWKQWLWVLLLGHMVVSQIATLLARKHRP	94
Pan_troglodytes	ELDQEFEELETDTLFGGLKKDATDFEWSFWMWGWKQWLWVLLLGHMVVSQMATLLAR----	222
Macaca_mulatta	ELDQEFEELETDTLFGGLKKDATDFEWSFWMWGWKQWLWVLLLGHMVVSQMATLLARKHRP	95
Equus_caballus	ELDQEFEELETDTLFGGLKKDPTDFEWSFWMWGWKQRLWVLLLGHVAVSQMAHLLARKHRP	94
Pteropus_alecto	QLDREFDLGTGILFGGLKKDRTDFEWSFWMWGWKQLWVLLLGHVVSQMANQIARKHRP	94
Bos_taurus	ELDREFDLETGTFLRGLKKDPTDFEWSFWMWGWKERLWVFLGHMSVSOVANLISRKHKP	94
Mus_musculus	ELDQEFEELEMTLFGGLKKDPTDFEWNFWMWGWKRRLVWLFIGHMAVSQLATLLTKKHRP	94
Ornithorhynchus_anatinus	ELEREFEELEVDPFLFGGLKKDSTDFEWSFWMWGWGRWQLAWLLLGHVLSQGAVILAGKHRP	94
Rhinatrema_bivittatum	ELDREFEELEKDPFLWGWFKKDTDFEWSFWMWGWKWPLLWLLIGHVVSQMTIRAFITGKFQP	94
Xenopus_tropicalis	ELTQEFGLLEADLSLGLKKDATDFEWSFWTEWARWPLL YLLLGHVLSQLCRHCFOQIHP	122
Latimeria_chalumnae	DLDSFEFELEKGFIFWGFKKDPTDFEWSFWTEWGRSLLWTL LGHVIIISOVTSVVISLRL	111
190.....200.....210.....220.....230.....240	

Pavo_muticus	WCLMVYGMVACWFLLGIKGFAVILLHTAVSFAVAQFQIPLLTWLCSLILLSTLHIPAVEE	165
Pavo_cristatus	WCLMVYGMVACWFLLGIKGFAVILLHTAVSFAVAQFQIPLLTWLCSLILLSTLHIPAVEE	165
Gallus_gallus	WCLMVYGMAACWFLLGIKGFAVILLHTAISFAVAQFQIPLLTWLCSLILLSTLHIPAVEE	165
Anas_platyrhynchos	WCLMVYGMAACWFLLGIKGFAVILLYATISFAVAQFQISLLTWMCSLVLLSTLHIPAVEE	183
Chelonia_mydas	WCLMTYGMVACWFLLGINGLAVILLHIAISFSVAQFQTAVLTWLCSLLLLSTLRVPAVEE	154
Homo_sapiens	WILMLYGMWACWCVLGTPGVAMVLLHTTISFCVAQFRSQLLTWLCSLLLLSTLRLOGVEE	154
Callithrix_jacchus	WILMLYGMWACWCVLGTPGVAMVLLHTTISFCVAQFRSQLLSWLCSLLLLSTLRLOGVEE	154
Pan_troglodytes	-----	222
Macaca_mulatta	WILMLYGMWACWCVLGTPGVAMVLLHTTISFCVAQFRSQLLSWLCSLLLLSTLRLOGVEE	155
Equus_caballus	WILTAYGMWACWCVLGAPGVAMVFLHTTISFCVAQFRSLLLSWLCSLLLLSTLRLODMEE	154
Pteropus_alecto	WILTAYGMWACWCVLGIPGTATIFLHTLISFCVAQFRSLFLSWLCSLLLLSTLRLODVEE	154
Bos_taurus	WILAVYGMWACRCVLGTQGTAMVLIHATISFCVAQFRSQFLSWLCSLSLLSTLRLODVEE	154
Mus_musculus	WIVMVYGMWACWCVLGAPGVVMVLLHTTIAFCVAQFRSVLLSWLCSLLLLSTLRLODVEE	154
Ornithorhynchus_anatinus	TVLMIYGMAACWCVLGVRGLALVLLHVFISFCVAQFKIPLLSWLCSLLLLSSLRVQALEE	154
Rhinatrema_bivittatum	LVSVGYGMMGCWLLLVGNGLLMVIFHSAISFVVAQWKTIPVLTWLCSLLLLSTLHMRAVEE	154
Xenopus_tropicalis	WFLMAYGMFACWLLLGAKGLALIFLNICVVSFAVAQLKIPFLIWLSSVIMLLMLHVRAVED	182
Latimeria_chalumnae	WFLMAYGMMACFLVFLGLKGLVILLHTLASFTVAQLRRPILLSWLCSLMLLYTLHMSSLEE	171
250.....260.....270.....280.....290.....300	

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Pavo_muticus	AKRKWYDTENEY Y L L L F T V S V L C L F N T S F S L E Y C W H G H ----- ARK S S H S F L W M L A Y V	218
Pavo_cristatus	AKRKWYDTENEY Y L L L F T V S V L C L F N T S F S L E Y C W H G H ----- A Q K S S H S F L W M L A Y V	218
Gallus_gallus	AKREWYDTENEY Y L L L F T V S V R C L F N T S F S L E Y C W N G R ----- A Q K S S H S F L W M L A Y V	218
Anas_platyrhynchos	AKRKWYDNENEY Y L L L F T V S V R C L F Y T S F S L E Y C W H E P ----- A Q K S S H S F L W M L A Y V	236
Chelonia_mydas	AKRGWYDTENEY Y L L L F T L T V H C L Y Y T S F S L E Y C W H G S ----- T Q K R Y Y S F F W M L A Y M	207
Homo_sapiens	VKRRWYKTENEY Y L L Q F T L T V R C L Y Y T S F S L E L C W Q Q L ----- P A A S T S Y S F P W M L A Y V	208
Callithrix_jacchus	VKRRWYKTENEY Y L L Q F T L T V R C L Y Y T S F S L E L C W Q Q L ----- P A A C T S Y S F P W M L A Y V	208
Pan_troglodytes	-KRRWYKTENEY Y L L Q F T L T V R C L Y Y T S F S L E L C W Q Q L ----- P A A S T S Y S F P W M L A Y V	275
Macaca_mulatta	VKRRWYKTENEY Y L L Q F T L T V R C L Y Y T S F S L E L C W Q Q L ----- P A A S S Y S F P W M L A Y V	209
Equus_caballus	VKRGWYQ TENEY Y L L Q F T L T V R C L Y Y T S F S L E F C W R Q L ----- P A E H T S Y S F P W M V A Y V	208
Pteropus_alecto	IKRGWYKTENEY Y L L Q F T L T V R C L Y Y T S F S L E F C W Q R L ----- P A G G T - F S F P W M L A Y V	207
Bos_taurus	VKRGWYKTENEY Y L L Q F T L T V R C L Y Y T S F S L E L C W Q P P ----- P A E R P F Y S L P W M L A Y V	208
Mus_musculus	VKRRWYKTENEY Y L L Q F T L T V R C L Y Y T S F S L E L C R Q P P S A Q P T P S A Q G A S H Y P W L L T Y V	214
Ornithorhynchus_anatinus	VKREWYET E S E F Y L L L F T L T V R C L F Y T S F S L E Y C W H K G ----- P W K R S H S F V W M L T Y V	207
Rhinatrema_bivittatum	VQRDWYETENEY Y L L V F T L T V R C L Y Y T S F S L E Y C W H T S ----- S Q E S C H S F R W M L I Y I	207
Xenopus_tropicalis	VQRGWYV SENEY Y L L V F T M T V R C L F Y T S F G L E W C S E Q K ----- L N P A S T Y S F P A M L A Y V	236
Latimeria_chalumnae	IQRDWYETENEY Y L L L F S L A I C S L R Y T S F S L E H C W Y Q S ----- S E K K Y K L F L W M L A Y L	224
310.....320.....330.....340.....350.....360	

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Pavo_muticus      FYYPMFHNGPLMNFDEFKQMRKQEAFLKTNLGIILVGIIRIFFFWWCLAELMIHFMYIH 278
Pavo_cristatus    FYYPMFHNGPLMNFDEFKQMRKQEAFLKTNLGIILVGIIRIFFFWWCLAELMIHFMYIH 278
Gallus_gallus     FYYPMFHNGPLMNFDEFKQMRKQEAFLKTNLVILIVGIIRIFFFWWCLAELMIHFMYIH 278
Anas_platyrhynchos FYYPLFHNGPLMNFDEFKQMRKQEAFLKTNVGIILVGIIRIFFFWWCLAELMIHLMYIH 296
Chelonia_mydas    FYYPVFHNGPIMTFNEFTKQMRPEACSLKSNLCILLGIVRIFFWWLAELMIHLMYIH 267
Homo_sapiens      FYYPVFHNGPILSFSEFIKQMQQEHDSLKASLCVLAALGLGRLLCWWWLAELMAHLMYMH 268
Callithrix_jacchus FYYPVFHNGPILSFSEFIKQMQQEHDSLKASLCVLAALGLGRLLCWWWLAELMAHLMYMH 268
Pan_troglodytes   FYYPVFHNGPILSFSEFIKQMQQEHDSLKASLCVLAALGLGRLLCWWWLAELMAHLMYMH 335
Macaca_mulatta    FYYPVFHNGPILSFSEFIKQMQQEHESLKGNLCALALGLGRLLCWWWLAELMAHLMYMH 269
Equus_caballus    FYYPVFHNGPILSFSEFIKQMQQEHCSLKANLPVLVLGLGRLLCSWWLAELMVHLMYH 268
Pteropus_alecto   FYYPVFHNGPILGFTEFIKQMQQEHGPLKFSLPVLARGLGRLLFCGWCLAELMVHLMYH 267
Bos_taurus        FYYPVFHNGPVLVSFPEFIAQMQQEQSPKTSLSILALGLGRLLFYWWLAELMVHLMYH 268
Mus_musculus      FYYPVFHNGPILNFEFFROMQMQPELNSLQHSCLIVAKGLGRLLCWWWLAELMVHLMYH 274
Ornithorhynchus_anatinus FYYPVFHNGPILNFEFFSKQLSQEAHSLKANLRLVLGGVRLFCWWWLAELMIHLMYMH 267
Rhinatrema_bivittatum FYYPMFHNGPIMNFDKFSKQMLKPEIRILRADVFTLIVGIVRIFFFWSLAELMIHFMMH 267
Xenopus_tropicalis FYYPVFHNGPVITYNQFAKQMSQCKRN-SSPLIYVLLDMARLFLWWGLAELMIHLMYMH 295
Latimeria_chalumnae FYYPVFHNGPVISYDEFKQIQKQOTRVSKMEVYALTLSICRIFLWWLAESMIHLMYIH 284
.....370.....380.....390.....400.....410.....420

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Pavo_muticus      AICSTSSSLEAMSYPWALGGVALAQLFFVYKYLVLVYGIAALLLRMDGLRPPALPRCVSLM 338
Pavo_cristatus    AICSTSSSLEAMSYPWALGGVALAQLFFVYKYLVLVYGIAALLLRMDGLRPPALPRCVSLM 338
Gallus_gallus     AICSTSSSLEAMSYPWALGGVALAQLFFVYKYLVLVYGIAALLLRMDGLRPPALPRCVSLM 338
Anas_platyrhynchos AICSSSPLEAVSYWALGGVALAQLFFVYKYLVLVYGVPSSLLLRMDGLKPPALPRCVSLM 356
Chelonia_mydas    AIYSSSHLEAVSYWTLGGGLAQLFFVYKYLVLVFGIPALIIRMDGLKPPALPRCVSTM 327
Homo_sapiens      AIYSSIPLLETVSCWTLGGGLAQLFFVYKYLVLVFGVPALLMRDLGLTPPALPRCVSTM 328
Callithrix_jacchus AIYSSIPLLGTVSCWTLGGGLAQLFFVYKYLVLVFGVPALLMRDLGLTPPALPRCVSTM 328
Pan_troglodytes   AIYSSIPLLETVSCWTLGGGLAQLFFVYKYLVLVFGVPALLMRDLGLTPPALPRCVSTM 395
Macaca_mulatta    AIYSSIPLLGAVSWTLGGGLAQLFFVYKYLVLVFGVPALLMRDLGLTPPALPRCVSTM 329
Equus_caballus    AIYSSIPLLGAVSWTLGGGLAQLFFVYKYLVLVFGVPALLMRDLGLTPPALPRCVSTM 328
Pteropus_alecto   AIYSSAPLLGAVSWTLGGGLAQLFFVYKYLVLVFGVPALLMRDLGLTPPALPRCVSTM 327
Bos_taurus        AIYSSASLLRAVSWTLGGGLAQLFFVYKYLVLVFGVPALLMRDLGLRPPALPRCVSTM 328
Mus_musculus      ALYSSAPLLESVSCWTLGGGLAQLFFVYKYLVLVFGVPALLMRDLGLTPPALPRCVSTM 334
Ornithorhynchus_anatinus ALCSSTPHLEAVSYWTLGGGLAQLFFVYKYLVLVFGVPALIMQMDGLSPPALPRCVSTM 327
Rhinatrema_bivittatum AIYSSYSLLSEVSWTLGGGLAQLFFVYKYLVLVFGVPALVVRMDGLEPPLPRCVSTM 327
Xenopus_tropicalis ALYSSHSLLLETVSCWALGGGLAQLFFVYKYLVLVGLPALIVRLDGLDPPALPRCVSTM 355
Latimeria_chalumnae AIPSSNTVLDVAVESWALGGGLAQLFFVYKYLVLVFGIPNLVVRMDGIEPRLPRCVSTM 344
.....430.....440.....450.....460.....470.....480

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Pavo_muticus      HSFTKMWRSFDFVGLHRLFLVRYIYVPMGGSQSSLPGLMFLSTALTFAFVSYWGGQSYLWYW 398
Pavo_cristatus    HSFTKMWRSFDFVGLHRLFLVRYIYVPMGGSQSSLPGLMFLSTALTFAFVSYWGGQSYLWYW 398
Gallus_gallus     HSFTKMWRSFDFVGLHRLFLVRYIYVPMGGSQSSLPGLMFLSTALTFAFVSYWGGQSYLWYW 398
Anas_platyrhynchos HSFTKMWRSFDFVGLHHFLVRYIYVPMGGSQSSLPGLMIFSTVLTFAFVSYWGGQSYLWYW 416
Chelonia_mydas    HSFTGMWRSFDFVGLHFLIRYIYIPMGGSQHGSVFGMLFSTAITFSFVSYWGGHNYLWFW 387
Homo_sapiens      FSFTGMWRYFDFVGLHNFILIRYVYIPVGGSQHGLLGTLFSTAMTFAFVSYWGGYDYLWCW 388
Callithrix_jacchus FSFTGMWRYFDFVGLHNFILIRYVYIPVGGSQHGLLGTLFSTAMTFAFVSYWGGYDYLWCW 388
Pan_troglodytes   FSFTGMWRYFDFVGLHNFILIRYVYIPVGGSQHGLLGTLFSTAMTFAFVSYWGGYDYLWCW 455
Macaca_mulatta    FSFTGMWRYFDFVGLHNFILIRYVYIPVGGSQHGLLGTLFSTAMTFAFVSYWGGYDYLWCW 389
Equus_caballus    FSFTGMWRYFDFVGLHNFILIRYVYIPVGGSQHGLLGTLFSTAMTFAFVSYWGGYDYLWCW 388
Pteropus_alecto   FSFTGMWRYFDFVGLHDFILIRYVYIPVGGSQHGLLGTLFSTAMTFAFVSYWGGYDYLWWS 387
Bos_taurus        FSFTGMWRHFDVGLHDFILIRYVYIPVGGSQHGLLGFSTAMTFAFVSFWHGGNDYLWCW 388
Mus_musculus      FSFTGMWRYFDFVGLHNFILIRYVYIPVGGSQHGLLGTLLSTATTFAFVSYWGGSYEDLWCW 394
Ornithorhynchus_anatinus FSFTGMWRYFDFVGLHRLIRYIYVPGGSRHGPFGMLFSAAVAFAFVSYWGGHNYLWCW 387
Rhinatrema_bivittatum YSFTGMWRTFDFVGLHRLIRYIYIPMGGSQCGWHGMLLSTAMTFAFVSYWGGHGYLWYW 387
Xenopus_tropicalis YSFTGIWRSFDFVGLHRLFLVRYIYIPLGGSQRGLHGMLLSSALTIFVCCWHAHEYLWYW 415
Latimeria_chalumnae YSFTGMWRHFDVGLHRLIRYIYIPMGGSQHGSIGMMLSTAMAFGFVYVYHGGHNYLWNW 404
.....490.....500.....510.....520.....530.....540

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Pavo_muticus      GVLNWLGVIVENGVKRILSASLIQDLIECFSPRVRRRLHAVLASVCTSMILILSNLIFLG 458
Pavo_cristatus    GVLNWLGVIVENGVKRILSASLIQDLIECFSPRVRRRLHAVLASVCTSMILILSNLIFLG 458
Gallus_gallus     GVLNWLGVIVENGVKRILSVSIIQDLIERFFSPRVRRRLHAVLASVCTSMILILSNLIFLG 458
Anas_platyrhynchos GALNCLGVIVENGIKRILSVSLIRDLIEHFFSPRIRRRRLHAILASVCTSMILILSNLIFLG 476
Chelonia_mydas    AALNWLGIITAENGVKRLLSVSLVRDLIDRFFSPRICRRRLHAALAAVSTSMILILSNLVFLG 447
Homo_sapiens      AALNWLGVTVENGVRRLVETPCIQDSLARYFSQAARRRFHAALASCSTSMILILSNLVFLG 448
Callithrix_jacchus AALNWLGVTVENGVRRLVETPCIQDSLARYFSQAARRRFHAALASCSTSMILILSNLVFLG 448
Pan_troglodytes   AALNWLGVTVENGVRRLVETPCIQDSLARYFSQAARRRFHAALASCSTSMILILSNLVFLG 515
Macaca_mulatta    AALNWLGVTVENGVRRLVETPCIQDSLTRYFSQAARRRFHAALVSCSTSMILILSNLVFLG 449
Equus_caballus    AALNWLGVTVENGVRRLVETPCIQHSLAQFFSPQAARRRFHAALASCSTSMILILSNLVFLG 448
Pteropus_alecto   AALNWLGVTVENGVRRLVETPWQDFLVRFLSPQAARRRFHAALASCSTSMILILSNLVFLG 447
Bos_taurus        ATLNLWLGVTVENGVRRLVETPCIQHSLAQFLSPQAARRRFHAALASCSTSMILILSNLVFLG 448
Mus_musculus      AALNWLGVTVESGVRRLLETPCVRETARHLSPQAARRRFHAALASCSTSMILILSNLVFLG 454
Ornithorhynchus_anatinus AALNWLGVIAENGVRKLFSVSFQDCLDRFLSPRALRRRLHAALASCSTSMILILSNLVFLG 447
Rhinatrema_bivittatum AAFNWIGVTAIEYGMKRVLSISAVQDVIDQFVSPKMYHRIHAALAAVSTSMILILTNLIFLG 447
Xenopus_tropicalis AALNWIGLVAEHAGKLLDIPVVOHADVRLSPKMHROIHAALASVSTALLILTNLIFLG 475
Latimeria_chalumnae AVLNLWLGVILENGVKKVLISIPSIQNLIELSFSQAEQRRGHAALAAFSTAMLILSNLIFLG 464
.....550.....560.....570.....580.....590.....600

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Pavo_muticus      GNHVGKIYWNRIIFMEGWPWATLTVLGLLYCYAHIGIEWEHSYAATOE----- 505
Pavo_cristatus    GNHVGKIYWNRIIFMEGWPWATLTVLGLLYCYAHIGIEWEHSYAATOE----- 505
Gallus_gallus     GNHVGKVIYWNRIIFMEGWPWATLTVLGLLYCYAHVIGIEWEHSYAVTPE----- 505
Anas_platyrhynchos GNHVGKIYWNRIIFMEGWPWATLTVLGFLYCYAHVIGIEWERTYAVN----- 521
Chelonia_mydas    GNQVGKIYWNRIIFVEGWPWTTLVLGFLYCYSHVIGIEWDRTHHVD----- 492
Homo_sapiens      GNEVGKTYWNRIIFIQGWPPVTLVLGFLYCYSHVIGIAWAQTYATD----- 493
Callithrix_jacchus GNEVGKTYWNRIIFIQGWPPVTLVLGFLYCYSHVIGIAWAQTYAMD----- 493
Pan_troglodytes   GNEVGKTYWNRIIFIQGWPPVTLVLGFLYCYSHVIGIAWAQTYATD----- 560
Macaca_mulatta    GNEVGKTYWNRIIFIQGWPPVTLVLGFLYCYSHVIGIAWAQTYAMD----- 494
Equus_caballus    GNQVGKIYWNRIIFIQGWPPVTLVLGFLYCYSHVIGIAWAQTYAMD----- 493
Pteropus_alecto   GNQVGKIYWNRIIFIQGWPPVTLVLGFLYCYSHVIGIAWAQTYSVN----- 492
Bos_taurus        GSOVGKIYWNRIIFIQGWPPVTLVLGFLYCYSHVIGIAWAHTYSCH----- 493
Mus_musculus      GIOVGKTYWNRIIFLQGWPPVTLVLGFLYCYSHVDIAWAQTYTVL----- 499
Ornithorhynchus_anatinus GNQVGQTYWNRIIFIQGWPPVTLVLGFLYCYSHVIGIAWAETTYTVN----- 492
Rhinatrema_bivittatum GEHVGEIYWNRIIFVQGWPPVTLVLGFLYCCSNIGIKWDRMYSRH----- 492
Xenopus_tropicalis GEQVGAIYWNRLRFVQGWPPVPLTILGCLFCFSQVGIEWNLFFPHYKGRFPICSVTKIIT 535
Latimeria_chalumnae GNQVGTIYWNRIIFVQGNQNDM----- 484
.....610.....620.....630.....640.....650.....660

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