File: /home/ceglab2/Desktop/ajinkya/pavo/MSPARE:CIRIE-Feb 15 15:31:33 2022 Page 1 of 7

| Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Mus_musculus Equus_caballus Pteropus_alecto Bos taurus | MAGAQPGVHALQLKPVCVSDTLKKGIKFVKWDDDSTVVTPIILRTDPQGFFFYWTDQN MAGAQPGVHALQLKPVCVSEALKKGVKFVKWDDDSTVVTPIILRTDPQGFFFYWTDQN MAGAQPGVHALQLKPVCVSDLLKKGTKFVKWDDDSTVVTPIILRTDPHGFFFYWTDQN MAGAQPGVHALQLKPVCVSDSLKKGTKFVKWDDDSTIVTPIILRTDPQGFFFYWTDQN MAGAQPGVHALQLKPVCVSDSLKKGTKFVKWDDDSTIVTPIILRTDPQGFFFYWTDQNKV MAGAQPGVHALQLKPVCVSDSLKKGIKFVKWDDDSTIVTPIILRTDPQGFFFYWTDQN MAGAQPGVHALQLKPVCVSDSLKKGTKFVKWDDDSTIVTPIILRTDPQGFFFYWTDQN MAGAQPGVHALQLKPVCVSDSLKKGTKFVKWDDDSTIVTPIILRTDPQGFFFYWTDQN MAGAQPGVHALQLKPVCVSDSLKKGTKFVKWDDDSAIVTPIILRTDPQGFFFYWTDQN MAGAQPGVHALQLKPVCVSDSLKKGTKFVKWDDDSAIVTPIILRTDPQGFFFYWTDQN MAGAQPGVHALQLKPVCVSDSLKKGTKFVKWDDDSAIVTPIILRTDPQGFFFYWTDQN MAGAQPGVHALQLKPVCVSDSLKKGTKFVKWDDDSAIVTPIILRTDPQGFFFYWTDQN MAGAQPGVHALQLKPVCVSDSLKKGTKFVKWDDDSAIVTPIILRTDPQGFFFYWTDQN MAGAQPGVHALQLKPVCVSDSLKKGTKFVKWDDDSAIVTPIILRTDPQGFFFYWTDQN MAGAQPGVHALQLKPVCVSDSLKKGTKFVKWDDDSAIVTPIILRTDPQGFFFYWTDQN | 58 58 58 58 58 58 58 58 |
|---|--|---|
| Ornithorhynchus_anatinus | | 58 |
| Rhinatrema_bivittatum Xenopus_tropicalis | MAGAQPGVHALQLKPVCVSDNLKKGTKCIKWDDDSTVVSPIFLRMDPQGFFLYWTDQN MAGAQPGVHALQLKRVCVSDNMKKGTKCMKWDDDSTLVYPIILKMDPNGFFLYWTDQN 1102030405060 | 58 58 |
| Parro mutique | :***** *:.*: ** ** ** *:*** *:**** | 25 |
| Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Mus_musculus Equus_caballus Pteropus_alecto Bos_taurus Ornithorhynchus_anatinus Rhinatrema_bivittatum Xenopus_tropicalis | | 35 35 116 116 115 115 115 115 115 115 115 11 |
| Pavo_muticus | YLNLVAFQEDIAKEWSDEVFSLATNLLAQNMSRDAFLEKAYTKLKLQVTPEGRIPLKNIY | 95 |
| Pavo_cristatus Gallus gallus | YLNLVAF <mark>O</mark> EDIA <mark>KEWSDEVFSLATN</mark> LLAONMSRDAFLEKAYTKLKLOVTPEGRIPLKNIY YLNLVAFOEDIAKEWSDEVFSLATNLLAONMSRDAFLEKAYTKLKLOVTPEGRIPLKNIY | 95 176 |
| Anas_platyrhynchos | YLNLVAFQEDIA <mark>KEWSDE</mark> VF <mark>SLATN</mark> LLAQNMSRDAFL <mark>EKAYTK</mark> LKLQV <mark>TPEGRIP</mark> LKNIY | 176 |
| Chelonia_mydas Homo sapiens | YLNLVAF <mark>QEEIAKEWTDKVFSLATN</mark> LLAHNMSRDAFLEKAYTKLKLQV <mark>TPEGRIPLK</mark> SIY HLNLVAF <mark>QEEVAKEWTNEVFSLATN</mark> LLA <mark>ONMSRD</mark> AFLEKAYTKLKLQVTPEGRIPLKNIY | 176 175 |
| Pan_troglodytes | HLNLVAFQEEVA <mark>KEWTNE</mark> VF <mark>SLATNLLAQNMSRD</mark> AFL <mark>EKAYTK</mark> LKLQV <mark>TPEGRIP</mark> LKNIY | 179 |
| Macaca_mulatta Callithrix_jacchus | HLNLVAF <mark>QEEVAKEWTNEVFSLATN</mark> LLAQNMSRDAFLEKAYTKLKLQV <mark>TPEGRIPLKNIY</mark> HLNLVAF <mark>QEEVAKEWTNEVFSLATNLLAQNMSRD</mark> AFLEKAYTKLKLQV <mark>TPEGRIPLKN</mark> IY | 175 175 |
| Mus_musculus Equus_caballus | HLNLVAF <mark>QEEVAKEWTNEVFSLATNLLAQNMSRD</mark> AFLEKAYTKLKLQV <mark>TPEGRIPLKN</mark> IY HLNLVAF <mark>QEEVAKEWTNEVFSLATNLLAQNMSRD</mark> AFLEKAYTKLKLQVTPEGRIPLKNIY | 175 175 |
| Pteropus_alecto | YLNLVAFQEEVA <mark>KEWTNE</mark> VF <mark>SLATNLLAQNMSRD</mark> AFL <mark>EKAYTK</mark> LKLQV <mark>TPEGRIP</mark> LKNIY | 175 |
| Bos_taurus Ornithorhynchus_anatinus | HLNLVAF <mark>QEEVAKEWTNEVFSLATNLLAQNMSRD</mark> AFLEKAYTKLKLQV <mark>TPEGRIPLKN</mark> IY HLNLVAF <mark>QEELAKEWADEVFSLATNLLAQNMSRD</mark> AFLEKAYTKLKLQVTPEGRIPLKNIY | 175 175 |
| Rhinatrema_bivittatum Xenopus_tropicalis | HLNLVVFQEEIAKEWADEIFSLATNLLAQNMSRDAFLEKAFTKLKLQVNPEGRIPVKNIY YLNLVAFQEEIAKEWTDEVFSLATNLLAQNMSRDAFLEKAYTKLKLQANPEGRIPVKNIN 130140150160170180 | 176 176 |

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|--------------------------|--|-----|
| Pavo muticus | RLFSADRKRVETALEACNLPSSRNDSIPODDFTPDVYRVFLNNLCPRPEIDHIFSEFGAK | 155 |
| Pavo cristatus | RLFSADRKRVETALEACNLPSSRNDSIPQDDFTPDVYRVFLNNLCPRPEIDHIFSEFGAK | 155 |
| Gallus_gallus | RLFSADRKRVETALEACNLPSSRNDSIPODDFTPDVYRVFLNNLCPRPEIDHIFSEFGAK | 236 |
| Anas platyrhynchos | RLFSADRKRVETALEACNLPSSRNDSIPQDDFTPDVYRVFLNNLCPRPEIDHIFSEFGAK | 236 |
| Chelonia mydas | RLFSADRKRVETALEACSLPSARNDSIPOEDFTPEAYRVFLNNLCPRPEIDHIFSEFGAK | 236 |
| Homo_sapiens | RLFSADRKRVETALEACSLPSSRNDSIPQEDFTPEVYRVFLNNLCPRPEIDNIFSEFGAK | 235 |
| Pan_troglodytes | RLFSADRKRVETALEACSLPSSRNDSIPQEDFTPEVYRVFLNNLCPRPEIDNIFSEFGAK | 239 |
| Macaca mulatta | RLFSADRKRVETALEACSLPSSRNDSIPOEDFTPEVYRVFLNNLCPRPEIDNIFSEFGAK | 235 |
| Callithrix_jacchus | RLFSADRKRVETALEACSLPSSRNDSIPQEDFTPEVYRVFLNNLCPRPEIDNIFSEFGAK | 235 |
| Mus musculus | RLFSADRKRVETALEACSLPSSRNDSIPOEDFTPDVYRVFLNNLCPRPEIDNIFSEFGAK | 235 |
| Equus_caballus | RLFSADRKRVETALEACSLPSSRNDSIPOEDFTPEVYRVFLNNLCPRPEIDNIFSEFGAK | 235 |
| Pteropus alecto | RLFSADRKRVETALEACSLPSSRNDSIPODDFTPEVYRVFLNNLCPRPEIDNIFSEFGAK | 235 |
| Bos taurus | RLFSADRKRVETALEACSLPSSRNDSIPOEDFTPEVYRVFLNNLCPRPEIDNIFSEFGAK | 235 |
| Ornithorhynchus_anatinus | RLFSADRKRVETALEACSLPSSRNDSIPQEDFTPEVYRVFLNNICPRPEIDNIFSEFGAK | 235 |
| Rhinatrema bivittatum | RLFSADRKRVETALESCSLPSGRNDSIPOEDFVPEVYRIFLNTLCPRPEIDHIFSEFGAK | 236 |
| Xenopus_tropicalis | RLFSADRKRVETALEACNLPSGRSDSIPQDDFTPEVYKVFLNNICPRPEIDNIFSEFGSK | 236 |
| nonopub_oroprourib | 190200210220230240 | |
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| | | |
| | *:.:*:**: :*** ************ ******* :* * :*::** | |
| Pavo_muticus | SKPYLTVDQMMEFINLKQRDPRLNEILYPPLKQEQVQQLIEKYEPNSNLAKKGQISVDGF | 215 |
| Pavo_cristatus | SKPYLTVDQMMEFINLKQRDPRLNEILYPPLKQEQVQQLIEKYEPNSNLAKKGQISVDGF | 215 |
| Gallus_gallus | SKPYLTVDQMMEFINLKQRDPRLNEILYPPLKQEQVQQLIEKYEPNSNLAKKGQISVDGF | 296 |
| Anas_platyrhynchos | SKPYLTVDQMMEFINLKQRDPRLNEILYPPLKQEQVQQLIEKYEPNSNLAKKGQISVDGF | 296 |
| Chelonia_mydas | SRPYLTVDQMMEFINYKQRDPRLNEILYPPMKQEQVQQLIEKYEPNNTLAKKGQISVDGF | 296 |
| Homo_sapiens | SKPYLTVDQMMDFINLKQRDPRLNEILYPPLKQEQVQVLIEKYEPNNSLARKGQISVDGF | 295 |
| Pan_troglodytes | SKPYLTVDQMMDFINLKQRDPRLNEILYPPLKQEQVQVLIEKYEPNNSLARKGQISVDGF | 299 |
| Macaca_mulatta | SKPYLTVDQMMDFINLKQRDPRLNEILYPPLKQEQVQVLIEKYEPNSSFAKKGQISVDGF | 295 |
| Callithrix_jacchus | SKPYLTVDQMMDFINLKQRDPRLNEILYPPLKQEQVQVLIEKYEPNSSLAKKGQISVDGF | 295 |
| Mus_musculus | SKPYLTVDQMMDFINLKQRDPRLNEILYPPLKQEQVQVLIEKYEPNSSLAKKGQMSVDGF | 295 |
| Equus_caballus | SKPYLTVDQMMDFINLKQRDPRLNEILYPPLKQEQVQVLIEKYEPNNSLAKKGQISVDGF | 295 |
| Pteropus_alecto | SKPYLTVDQMMDFINLKQRDPRLNEILYPPLKQEQVQVLIEKYEPNSSLAKKGQISVDGF | 295 |
| Bos_taurus | SKPYLTVDQMMDFINLKQRDPRLNEILYPPLKQEQVQVLIEKYEPNNSLAKKGQISVDGF | 295 |
| Ornithorhynchus_anatinus | SRPYLTVDQMMEFINFKQRDPRLNEILYPPLKQEQVQQLIEKYEPNNNLAKKGQISVDGF | 295 |
| Rhinatrema_bivittatum | SKPYLSVDQMMEFINSKQRDPRLNEILYPPLKQEQVQQLIEKYEPNNSLAKRGLMSIEGF | 296 |
| Xenopus_tropicalis | SKAHLTVDELTEFINSKQRDPRLNEILYPPLKQEQVQQLIEKYEPNSPLATGGQISVEGF | 296 |
| | 250260270280290300 | |
| | | |
| | . * * . * * * * * * * * * * * * * * * * | |
| Pavo muticus | MRYLSGEENGVVPPEKLDLNEDMSQPLSHYFINSSHNTYLTAGQLAGNSSVEMYRQVLLS | 275 |
| Pavo cristatus | MRYLSGEENGVVPPEKLDLNEDMSOPLSHYFINSSHNTYLTAGOLAGNSSVEMYROVLLS | 275 |
| Gallus gallus | MRYLSGEENGVVPPEKLDLNEDMSQPLSHYFINSSHNTYLTAGQLAGNSSVEMYRQVLLS | 356 |
| Anas platyrhynchos | MRYLSGEENGVVPPEKLDLNEDMSQPLSHYFINSSHNTYLTAGQLAGNSSVEMYRQVLLS | 356 |
| Chelonia_mydas | MRYLGGEENGVVPPEKLDLNEDMSQPLSHYLINSSHNTYLTAGQLAGNSSVEMYRQVLLS | 356 |
| Homo_sapiens | MRYLSGEENGVVSPEKLDLNEDMSQPLSHYFINSSHNTYLTAGQLAGNSSVEMYRQVLLS | 355 |
| Pan troglodytes | MRYLSGEENGVVSPEKLDLNEDMSQPLSHYFINSSHNTYLTAGQLAGNSSVEMYRQVLLS | 359 |
| Macaca mulatta | MRYLSGEENGVVSPEKLDLNEDMSQPLSHYFINSSHNTYLTAGQLAGNSSVEMYRQVLLS | 355 |
| Callithrix_jacchus | MRYLSGEENGVVSPEKLDLNEDMSOPLSHYFINSSHNTYLTAGOLAGNSSVEMYROVLLS | 355 |
| Mus musculus | MRYLSGEENGVVSPEKLDLNEDMSOPLSHYFINSSHNTYLTAGOLAGNSSVEMYROVLLS | 355 |
| Equus_caballus | MRYLSGEENGVVSPEKLDLNEDMSQPLSHYFINSSHNTYLTAGQLAGNSSVEMYRQVLLS | 355 |
| Pteropus_alecto | MRYLSGEENGVVSPEKLDLNEDMSQPLSHYFINSSHNTYLTAGQLAGNSSVEMYRQVLLS | 355 |
| Bos_taurus | MRYLSGEENGVVSPEKLDLNEDMSQPLSHYFINSSHNTYLTAGQLAGNSSVEMYRQVLLS | 355 |
| Ornithorhynchus anatinus | | 355 |
| Rhinatrema bivittatum | TRYLNGEENGVVPPEKLDLNEDMSOPLSHYFINSSHNTYLTAGOLAGNSSVEMYROVLLS | 356 |
| Xenopus_tropicalis | MNYLSGEENGVVPPEKLDLNEDMSQPVSHYFINSSHNTYLTAGQLAGNSSVEMYRQVLLA | 356 |
| "C"Obap_crobicatio | 310320330340350360 | 550 |
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|--------------------------|--|-----|
| Pavo muticus | GCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPFPILLSFENHV | 335 |
| Pavo cristatus | GCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPFPILLSFENHV | 335 |
| Gallus_gallus | GCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPFPILLSFENHV | 416 |
| Anas platyrhynchos | GCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPFPILLSFENHV | 416 |
| Chelonia_mydas | GCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPFPILLSFENHV | 416 |
| Homo_sapiens | GCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPFPILLSFENHV | 415 |
| Pan_troglodytes | GCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPFPILLSFENHV | 419 |
| Macaca mulatta | GCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPFPILLSFENHV | 415 |
| Callithrix_jacchus | GCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPFPILLSFENHV | 415 |
| Mus musculus | GCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPFPILLSFENHV | 415 |
| Equus_caballus | GCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPFPILLSFENHV | 415 |
| Pteropus alecto | GCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPFPILLSFENHV | 415 |
| Bos taurus | GCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPFPILLSFENHV | 415 |
| Ornithorhynchus anatinus | GCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPYPILLSFENHV | 415 |
| Rhinatrema bivittatum | GCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPYPILLSFENHV | 416 |
| Xenopus_tropicalis | GCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPYPVVLSFENHV | 416 |
| | 370380390400410420 | |
| | | |
| | | |
| _ | <u>*************************************</u> | |
| Pavo_muticus | DSPKQQAKMAEYCRLIFGDALLMDPLEKYPLEPGVPLPSPMDLMYKILVKNKKKSHKSAD | 395 |
| Pavo_cristatus | DSPKQQAKMAEYCRLIFGDALLMDPLEKYPLEPGVPLPSPMDLMYKILVKNKKKSHKSAD | 395 |
| Gallus_gallus | DSPKQQAKMAEYCRLIFGDALLMDPLEKYPLEPGVPLPSPMDLMYKILVKNKKKSHKSAD | 476 |
| Anas_platyrhynchos | DSPKQQAKMAEYCRLIFGDALLMDPLEKYPLEPGVPLPSPMDLMYKILVKNKKKSHKSAD | 476 |
| Chelonia_mydas | DSPKQQAKMAEYCRLIFGDALLMDPLEKYPLESGIPLPSPMDLMYKILVKNKKKSQKSAD | 476 |
| Homo_sapiens | DSPKQQAKMAEYCRLIFGDALLMEPLEKYPLESGVPLPSPMDLMYKILVKNKKKSHKSSE | 475 |
| Pan_troglodytes | DSPKQQAKMAEYCRLIFGDALLMEPLEKYPLESGVPLPSPMDLMYKILVKNKKKSHKSSE | 479 |
| Macaca_mulatta | DSPKQQAKMAEYCRLIFGDALLMEPLEKYPLESGVPLPSPMELMYKILVKNKKKSHKSSE | 475 |
| Callithrix_jacchus | DSPKQQAKMAEYCRLIFGDALLMEPLEKYPLESGVPLPSPMDLMYKILVKNKKKSHKSSE | 475 |
| Mus_musculus | DSPKQQAKMAEYCRLIFGDALLMEPLEKYPLESGVPLPSPMDLMYKILVKNKKKSHKSSE | 475 |
| Equus_caballus | DSPKQQAKMAEYCRLIFGDALLMEPLEKYPLESGVPLPSPMDLMYKILVKNKKKSHKSSE | 475 |
| Pteropus_alecto | DSPKQQAKMAEYCRLIFGDALLMEPLEKYPLESGVPLPSPMDLMYKILVKNKKKSHKSSE | 475 |
| Bos_taurus | DSPKQQAKMAEYCRLIFGDALLMEPLDKYPLESGVPLPSPMDLMYKILVKNKKKSHKSSE | 475 |
| Ornithorhynchus_anatinus | | 475 |
| Rhinatrema_bivittatum | DSPKQQAKMAEYCKLIFGDGLLTDPLEKYPLESGVPLPSPMDLMYKILVKNKKKSHKSSD | 476 |
| Xenopus_tropicalis | DSPKQQAKMAEYCKQIFGDGLLTDILEKYPLDSGVPLPSPMDLKYKILIKNKKKSHKSSD | 476 |
| | 430440450460470480 | |
| | | |
| | * **** ***** *::** ******: **: **: ** *:* ***** | |
| Pavo muticus | GSAKKKLSEQASNTCSDTSSMFEPSSPGAGEAEIESDD-DDDYDDDCKKSSMDEGTAGSE | 454 |
| Pavo cristatus | GSAKKKLSEQASNTCSDTSSMFEPSSPGAGEAEIESDD-DDDYDDDCKKSSMDEGTAGSE | 454 |
| Gallus_gallus | GSAKKKLSEQASNTCSDTSSMFEPSSPGAGEAEIESDD-DDDYDDDCKKSSMDEGTAGSE | 535 |
| Anas platyrhynchos | GSAKKKLLEQASNTCSETSSMFEPSSPGAGEAEIESDD-DDDYDDDCKKSSMDEGTAGSE | 535 |
| Chelonia mydas | GSSKKKLSEOASNTCSDTSSGFEPSSPGAGEAEIESDD-DDDYDDDCKKSSTDEGTAGSE | 535 |
| Homo_sapiens | GSGKKKLSEQASNTYSDSSSMFEPSSPGAGEADTESDD-DDDD-DDCKKSSMDEGTAGSE | 533 |
| Pan troglodytes | GSGKKKLSEQASNTYSDSSSMFEPSSPGAGEADTESDD-DDDD-DDCKKSSMDEGTAGSE | 537 |
| Macaca mulatta | GSGKKKLSEOASNTCSDSSSMFEPSSPGAGEADTESDD-DDDD-DDCKKSSMDEGTAGSE | 533 |
| Callithrix_jacchus | GSGKKKLSEQASNTYSDSSSVFEPSSPGAGEADTESDD-DDDD-DDCKKSSMDEGTAGSE | 533 |
| Mus musculus | GSGKKKLSEQASNTYSDSSSVFEPSSPGAGEADTESDD-DDDD-DDCKKSSMDEGTAGSE | 533 |
| Equus_caballus | GSGKKKLSEQASNTYSDSSSVFEPSSPGAGEADTESDD-DDDD-DDCKKSSMDEGTAGSE | 533 |
| Pteropus alecto | GSNKKKLSEQASNTYSDSSSVFEPSSPGAGEADTESDD-DDDD-DDCKKSSMDEGTAGSE | 533 |
| Bos_taurus | GSGKKKLSEQASNTYSDSSSVFEPSSPGAGEADTESDD-DDDD-DDCKKSSMDEGTAGSE | 533 |
| Ornithorhynchus anatinus | GSAKKKLSEQASNTYSDTSSVFEPSSPGTGEADIESDD-DDDDEDDCKKSSMDEGTAGSE | 534 |
| Rhinatrema bivittatum | GSAKKKLSEOASNTCSDTSSVFEPSSPGAGEADIESDE-DDEDDDDCKKSMDEGTAGNE | 535 |
| Xenopus_tropicalis | RSGKKKLTEQASNTCSDTSSVFEPSSPGAGEAEIESEEEDDDDDDCKKSSMDEGTAGKE | 536 |
| | 490510520540 | 230 |
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| Pavo muticus | AMATEEMSNLVNYIQPVKFESFEVSKKRNKSFEMSSFVETKGLEQLTKSPVEFVEYNKMQ | 514 |
| Pavo cristatus | AMATEEMSNLVNYIOPVKFESFEVSKKRNKSFEMSSFVETKGLEOLTKSPVEFVEYNKMO | 514 |
| Gallus gallus | AMATEEMSNLVNYIOPVKFESFEVSKKRNKSFEMSSFVETKGLEOLTKSPVEFVEYNKMO | 595 |
| Anas platyrhynchos | AMATEEMSNLVNYIOPVKFESFEVSKKRNKSFEMSSFVETKGLEOLTKSPVEFVEYNKMO | 595 |
| Chelonia mydas | AMATEEMSNLVNYIOPVKFESFEISKKRNRSFEMSSFVETKGLEOLTKSPVEFVEYNKRO | 595 |
| Homo sapiens | AMATEEMSNLVNYIOPVKFESFEISKKRNKSFEMSSFVETKGLEOLTKSPVEFVEYNKMO | 593 |
| Pan_troglodytes | AMATEEMSNLVNYIQPVKFESFEISKKRNKSFEMSSFVETKGLEQLTKSPVEFVEYNKMQ | 597 |
| Macaca mulatta | AMATEEMSNLVNYIOPVKFESFEISKKRNKSFEMSSFVETKGLEOLTKSPVEFVEYNKMO | 593 |
| Callithrix_jacchus | AMATEEMSNLVNYIOPVKFESFEISKKRNKSFEMSSFVETKGLEOLTKSPVEFVEYNKMO | 593 |
| Mus musculus | AMATEEMSNLVNYIOPVKFESFEISKKRNKSFEMSSFVETKGLEOLTKSPVEFVEYNKMO | 593 |
| Equus_caballus | AMATEEMSNLVNYIOPVKFESFEISKKRNRSFEMSSFVETKGLEOLTKSPVEFVEYNKMO | 593 |
| Pteropus alecto | AMATEEMSNLVNYIOPVKFESFEISKKRNRSFEMSSFVETKGLEOLTKSPVEFVEYNKMO | 593 |
| Bos taurus | AMATEEMSNLVNYIOPVKFESFEISKKRNRSFEMSSFVETKGLEOLTKSPVEFVEYNKMO | 593 |
| Ornithorhynchus anatinus | AMATEEMSNLVNYIOPVKFESFETSKKCNKSFEMSSFVETKGLEOLTKSPVEFVEYNKMO | 594 |
| Rhinatrema bivittatum | ASATEEMSNLVNYIOPVKFETFEMSKKRNKSFEMSSFVETKGLEOLTKSPVEFVEYNKMO | 595 |
| Xenopus tropicalis | ASATEEMSNLVNYIQPVKFESFESSKKRNKSFEMSSFVETKGLEQLTKSPVEFVEYNKMQ | 596 |
| Memopub_cropredirb | 550560570580590600 | 330 |
| | | |
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| | ******************************* | |
| Pavo muticus | LSRIYPKGTRVDSSNYMPQVFWNAGCQMVALNFQTVDLSMQINMGMYEYNGKSGYRLKPE | 574 |
| Pavo cristatus | LSRIYPKGTRVDSSNYMPQVFWNAGCQMVALNFQTVDLSMQINMGMYEYNGKSGYRLKPE | 574 |
| Gallus gallus | LSRIYPKGTRVDSSNYMPOVFWNAGCOMVALNFOTVDLSMOINMGMYEYNGKSGYRLKPE | 655 |
| Anas platyrhynchos | LSRIYPKGTRVDSSNYMPQVFWNAGCQMVALNFQTVDLSMQINMGMYEYNGKSGYRLKPE | 655 |
| Chelonia mydas | LSRIYPKGTRVDSSNYMPQVFWNAGCQLVALNFQTVDLSMQINMGMYEYNGKSGYRLKPE | 655 |
| Homo sapiens | LSRIYPKGTRVDSSNYMPQLFWNAGCQMVALNFQTMDLAMQINMGMYEYNGKSGYRLKPE | 653 |
| Pan_troglodytes | LSRIYPKGTRVDSSNYMPQLFWNAGCQMVALNFQTMDLAMQINMGMYEYNGKSGYRLKPE | 657 |
| Macaca mulatta | LSRIYPKGTRVDSSNYMPOLFWNAGCOMVALNFOTMDLAMOINMGMYEYNGKSGYRLKPE | 653 |
| Callithrix_jacchus | LSRIYPKGTRVDSSNYMPQLFWNAGCQMVALNFQTMDLAMQINMGMYEYNGKSGYRLKPE | 653 |
| Mus musculus | LSRIYPKGTRVDSSNYMPOLFWNAGCOMVALNFOTVDLAMOINMGMYEYNGKSGYRLKPE | 653 |
| Equus caballus | LSRIYPKGTRVDSSNYMPQLFWNAGCQMVALNFQTVDLAMQINMGMYEYNGKSGYRLKPE | 653 |
| Pteropus alecto | LSRIYPKGTRVDSSNYMPQLFWNAGCQMVALNFQTMDLAMQINMGMYEYNGKSGYRLKPE | 653 |
| Bos_taurus | LSRIYPKGTRVDSSNYMPQLFWNAGCQMVALNFQTVDLAMQINMGMYEYNGKSGYRLKPE | 653 |
| Ornithorhynchus anatinus | LSRIYPKGTRVDSSNYMPQVFWNAGCQMVALNFQTVDLAMQINMGMYEYNGKSGYRLKPE | 654 |
| Rhinatrema bivittatum | LSRIYPKGTRVDSSNYMPOVFWNAGCOMVALNFOTIDLSMOLNMGMYEYNGKSGYRLKPE | 655 |
| Xenopus tropicalis | LSRIYPKGTRVDSSNYMPQVFWNAGCQLVALNFQTIDLSMQLNMGMYEYNGKCGYRLKPE | 656 |
| | 610620630640650660 | |
| | | |
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| | ************************************* | |
| Pavo_muticus | FMRRPDKHFDPFTESIVDGIVANTLSVKIISGQFLSDKKVGTYVEVDMFGLPVDTRRKAL | 634 |
| Pavo_cristatus | FMRRPDKHFDPFTESIVDGIVANTLSVKIISGQFLSDKKVGTYVEVDMFGLPVDTRRKAL | 634 |
| Gallus_gallus | FMRRPDKHFDPFTESIVDGIVANTLSVKIISGQFLSDKKVGTYVEVDMFGLPVDTRRKAL | 715 |
| Anas_platyrhynchos | FMRRPDKHFDPFTEGIVDGIVANTLSVKIISGQFLSDKKVGTYVEVDMFGLPVDTRRKAL | 715 |
| Chelonia_mydas | FMRRPDKHFDPFTESIVDGIVANTLSVKIISGQFLSDKKVGTYVEVDMFGLPVDTRRKAL | 715 |
| Homo_sapiens | FMRRPDKHFDPFTEGIVDGIVANTLSVKIISGQFLSDKKVGTYVEVDMFGLPVDTRRKAF | 713 |
| Pan_troglodytes | FMRRPDKHFDPFTEGIVDGIVANTLSVKIISGQFLSDKKVGTYVEVDMFGLPVDTRRKAF | 717 |
| Macaca_mulatta | FMRRPDKHFDPFTEGIVDGIVANTLSVKIISGQFLSDKKVGTYVEVDMFGLPVDTRRKAF | 713 |
| Callithrix_jacchus | FMRRPDKHFDPFTEGIVDGIVANTLSVKIISGQFLSDKKVGTYVEVDMFGLPVDTRRKAF | 713 |
| Mus_musculus | FMRRPDKHFDPFTEGIVDGIVANTLSVKIISGQFLSDKKVGTYVEVDMFGLPVDTRRKAF | 713 |
| Equus_caballus | FMRRPDKHFDPFTEGIVDGIVANTLSVKIISGQFLSDKKVGTYVEVDMFGLPVDTRRKAF | 713 |
| Pteropus_alecto | FMRRPDKHFDPFTEGIVDGIVANTLSVKIISGQFLSDKKVGTYVEVDMFGLPVDTRRKAF | 713 |
| Bos_taurus | FMRRPDKHFDPFTEGIVDGIVANTLSVKIISGQFLSDKKVGTYVEVDMFGLPVDTRRKAF | 713 |
| Ornithorhynchus_anatinus | FMRRPDKHFDPFTEGIVDGIVANTLSVKIISGQFLSDKKVGTYVEVDMFGLPVDTRRKAF | 714 |
| Rhinatrema_bivittatum | FMRRPDKHFDPFTESTVDGIVANTLSVKIISGQFLSDKKVGTYVEIDMFGLPVDTRRKAF | 715 |
| Xenopus_tropicalis | FMRRPDKHFDPFTETTVDGIVANTVSVKIISGQFLSDKKVGTYVEVDMFGLPVDTKRKAF | 716 |
| | 670680690700710720 | |

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| | ******* **** **** ******** **** **** **** | |
|----------------------------|--|------------|
| Pavo muticus | KTKTSQGNAVNPVWEEETIVFKKVVLPTLACLRLAVYEEGGKFIGHRILPVSAIRPGYHY | 694 |
| Pavo cristatus | KTKTSOGNAVNPVWEEETIVFKKVVLPTLACLRLAVYEEGGKFIGHRILPVSAIRPGYHY | 694 |
| Gallus_gallus | KTKTSOGNAVNPVWEEETIVFKKVVLPTLACLRLAVYEEGGKFIGHRILPVSAIRPGYHY | 775 |
| Anas platyrhynchos | KTKTSOGNAVNPVWEEETIVFKKVVLPSLACLRLAVYEEGGKFIGHRILPVSAIRPGYHY | 775 |
| Chelonia mydas | KTKTSOGNAVNPVWEEEPIVFKKVVLPSLACLRIAVYEEGGKFIGHRILPVSAIRPGYHY | 775 |
| Homo sapiens | KTKTSOGNAVNPVWEEEPIVFKKVVLPTLACLRIAVYEEGGKFIGHRILPVOAIRPGYHY | 773 |
| Pan_troglodytes | KTKTSOGNAVNPVWEEEPIVFKKVVLPTLACLRIAVYEEGGKFIGHRILPVOAIRPGYHY | 777 |
| Macaca mulatta | KTKTSQGNAVNPVWEEEPIVFKKVVLPTLACLRIAVYEEGGKFIGHRILPVQAIRPGYHY | 773 |
| Callithrix_jacchus | KTKTSQGNAVNPVWEEEPIVFKKVVLPTLACLRIAVYEEGGKFIGHRILPVQAIRPGYHY | 773 |
| Mus musculus | KTKTSOGNAVNPVWEEEPIVFKKVVLPSLACLRIAAYEEGGKFIGHRILPVOAIRPGYHY | 773 |
| Equus_caballus | KTKTSOGNAVNPVWEEEPIVFKKVVLPSLACLRIAVYEEGGKCIGHRILPVOAIRPGYHY | 773 |
| Pteropus alecto | KTKTSOGNAVNPVWEEEPIVFKKVVLPSLACLRIAVYEEGGKFIGHRILPVPAIRPGYHY | 773 |
| Bos taurus | KTKTSQGNAVNPIWEEEPIVFKKVVLPSLACLRIAVYEEGGKFIGHRILPVQAIRPGYHY | 773 |
| Ornithorhynchus_anatinus | KTKTSQGNAVNPVWEEEPIVFKKVVLPSLACLRIAVYEEGGKFIGHRLLPVQAIRPGYHY | 774 |
| Rhinatrema bivittatum | KTKTSQGNAVNPVWEEEPIVFKKVVLPSLTCLRIAVYEEGGKFIGHRILPVSAIRPGYHY | 775 |
| Xenopus tropicalis | KTKTSQGNAVNPVWEEEPIVFKKVVLPSLACLRIAAYEEGGKFIGHRLLPVPALRPGYHY | 776 |
| | 730740750760770780 | |
| | | |
| | | |
| Barra marké mara | *.***:* ** ***:*:*:******************** | 854 |
| Pavo_muticus | ICLRNERNQPLTLPALFVYIEVKDYVPDTYADVIEALSNPIRYVNLMEQRAKQLAALTLE | 754 |
| Pavo_cristatus | ICLRNERNQPLTLPALFVYIEVKDYVPDTYADVIEALSNPIRYVNLMEQRAKQLAALTLE | 754 |
| Gallus_gallus | ICLRNERNQPLTLPALFVYIEVKDYVPDTFADVIEALSNPIRYVNLMEQRAKQLAALTLE | 835 |
| Anas_platyrhynchos | ICLRNERNQPLTLPALFVYIEVKDYVPDTYADVIEALSNPIRYVNLMEQRAKQLAALTLE | 835 |
| Chelonia_mydas | ICLRNERNQPLMLPAVFVYIDVKDYVPDTYADVIEALSNPIRYVNLMEQRAKQLAALTLE | 835 |
| Homo_sapiens | ICLRNERNQPLTLPAVFVYIEVKDYVPDTYADVIEALSNPIRYVNLMEQRAKQLAALTLE | 833 |
| Pan_troglodytes | ICLRNERNQPLTLPAVFVYIEVKDYVPDTYADVIEALSNPIRYVNLMEQRAKQLAALTLE | 837 833 |
| Macaca_mulatta | ICLRNERNQPLMLPAVFVYIEVKDYVPDTYADVIEALSNPIRYVNLMEQRAKQLAALTLE | 833 |
| Callithrix_jacchus | ICLRNERNOPLTLPAVFVYIEVKDYVPDTYADVIEALSNPIRYVNLMEQRAKQLAALTLE ICLRNERNOPLTLPAVFVYIEVKDYVPDTYADVIEALSNPIRYVNLMEQRAKQLAALTLE | 833 |
| Mus_musculus | ISLRNERNOPLHLPAVFVYIEVKDYVPDTYADVIEALSNPIRYVNLMEQRAKQLAALTLE ISLRNERNOPLMLPAVFVYIEVKDYVPDTYADVIEALSNPIRYVNLMEQRAKQLAALTLE | 833 |
| Equus_caballus | ICLRNERNOPLTLPAVFVYIEVKDYVPDTYADVIEALSNPIRYVNLMEQRAKQLAALTLE | 833 |
| Pteropus_alecto Bos_taurus | ICLRNERNOPLHLPAVFVYIEVKDYVPDTYADVIEALSNPIRYVNLMEQRAKQLAALTLE ICLRNERNOPLMLPALFVYIEVKDYVPDTYADVIEALSNPIRYVNLMEQRAKQLAALTLE | 833 |
| Ornithorhynchus anatinus | ICLRNERNOPLMLPAUFVYIEVKDYVPDTYADVIEALSNPIRYVNLMEQRAKQLAALTLE | 834 |
| Rhinatrema bivittatum | ICLRNEKNLPLMLPAIFVHIEVKDYVPDTFADVIEALSNPIRYVNLMEQRARQLAALTLE | 835 |
| Xenopus tropicalis | ICLRNEKNVPLTLPALFVYIEVKDYVPDTFADVIEALSNPIRYVNLMEQRARQLVALTLE | 836 |
| xellopus_clopicalis | 790800810820830840 | 630 |
| | | |
| | | |
| | **:* *** : *:.:* .* *.:****:. :::*. *. *:*** **.** | |
| Pavo_muticus | DEEEVKKEVDHGDA <mark>P</mark> SEAN <mark>SEPRPTPAENGVNHT</mark> ASL <mark>TPKPATQ</mark> VVHSQ <mark>PTPG</mark> LVKAPAK | 814 |
| Pavo_cristatus | DEEEVKKEVDHGDAPSEANSEPRPTPAENGVNHTASLTPKPATQVVHSQPTPGLVKAPAK | 814 |
| Gallus_gallus | DEEEVKKEVDHGDAPSEANSEPRPTPAENGVNHTASLTSKPTTQVVHSQPTPGLVKAPAK | 895 |
| Anas_platyrhynchos | DEEEVKKEVDHGDA <mark>PSEANNEPRPTPAENGLNCTASLTPKPATQVVHSQPTPGS</mark> VKAPAK | 895 |
| Chelonia_mydas | DEEEVKKEVDQGDA <mark>PSEDKSEPRPTPAENGLSHSTSLTMKP</mark> ATQVVHSQ <mark>P</mark> VSGSVKA <mark>P</mark> AK | 895 |
| Homo_sapiens | DEEEVKKEADPGETPSEAPSEARTTPAENGVNHTTTLTPKPPSQALHSQPAPGSVKAPAK | 893 |
| Pan_troglodytes | DEEEVKKEADPGETPSEAPSEARTTPAENGVNHTTTLTPKPPSQALHSQPAPGSVKAPAK | 897 |
| Macaca_mulatta | DEEEVKKEAD <mark>PGETPSETPSEVRTTPAENGVNHTTSLTPKPPSQALHSQPAPGSVKAP</mark> AK | 893 |
| Callithrix_jacchus | DEEEVKKEAD <mark>PGETP</mark> SEA <mark>PSEARTTPAENGVNHTTSLTPKPP</mark> SQALHSQ <mark>PAPGSVKAP</mark> AK | 893 |
| Mus_musculus | DEEEVKKEAD <mark>PGETSSEAP</mark> SETRTT <mark>P</mark> AENGVNHTASLA <mark>PKPP</mark> SQAPHSQPA <mark>PG</mark> SVKAPAK | 893 |
| Equus_caballus | DEEEVKKEAD <mark>PGETP</mark> SEA <mark>PSEARTTPAENGVNHTTSLTPKPP</mark> SQALHSQPA <mark>PG</mark> SVKAPAK | 893 |
| Pteropus_alecto | DEEEVKKEADPGETPSEAPSEARTTPAENGVNHTTSLVPKPPSQALHSQPAPGSVKAPAK | 893 |
| Bos_taurus | DEEEVKKEADPGETPSEAPSEARPTPAENGVNHTTSLTPKPPSQALHSQPAPGSVKAPAK | 893 |
| Ornithorhynchus_anatinus | | 894 |
| Rhinatrema_bivittatum | DEEEPKKEIESGDTPAEANNEPRPAPAENGVNHTTTLTPKTLTPSVHAQPTPGSVKVPAK | 895 |
| Xenopus_tropicalis | DEEEVKKEVEAGEAPSEANSEPRPAPAENGLNHASTLTPKPSCQTVHSQPVPGSVKVPAK | 896 |
| | 850860870880890900 | |

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|--------------------------------------|--|------------|
| Para mutimum | | 074 |
| Pavo_muticus | TEDLIQSVLTEVEAQTIEELKQQKSFVKLQKKHYKEMKDLVKRHHKKTTDLIKEHTAKYN | 874 874 |
| Pavo_cristatus | TEDLIQSVLTEVEAQTIEELKQQKSFVKLQKKHYKEMKDLVKRHHKKTTDLIKEHTAKYN | 955 |
| Gallus_gallus | TEDLIQSVLTEVEAQTIEELKQQKSFVKLQKKHYKEMKDLVKRHHKKTTDLIKEHTAKYN | 955 955 |
| Anas_platyrhynchos Chelonia mydas | TEDLIQSVLTEVEAQTIEELKQQKSFVKLQKKHYKEMKDLVKRHHKKTTDLIKEHTAKYN | 955 |
| _ - | TEDLIQSVLTEVEAQTIEELKQQKSFVKLQKKHYKEMKDLVKKHHKKTTDLIKEHTAKYN | 953 |
| Homo_sapiens | TEDLIQSVLTEVEAQTIEELKQQKSFVKLQKKHYKEMKDLVKRHHKKTTDLIKEHTTKYN TEDLIQSVLTEVEAQTIEELKQQKSFVKLQKKHYKEMKDLVKRHHKKTTDLIKEHTTKYN | 953 957 |
| Pan_troglodytes Macaca_mulatta | TEDLIQSVLTEVEAQTIEELKQQKSFVKLQKKHYKEMKDLVKRHHKKTTDLIKEHTTKYN | 957 |
| Callithrix_jacchus | TEDLIQSVLTEVEAQTIEELKQQKSFVKLQKKHYKEMKDLVKRHHKKTTDLIKEHTTKYN | 953 |
| Mus_musculus | TEDLIQSVLTEVEAQTIEELKQQKSFVKLQKKHYKEMKDLVKRHHKKTTELIKEHTTKYN | 953 |
| Equus caballus | TEDLIQSVLTEVEAQTIEELKQQKSFVKLQKKHYKEMKDLVKRHHKKTTDLIKEHTTKYN | 953 |
| Pteropus_alecto | TEDLIQSVLTEVEAQTIEELKQQKSFVKLQKKHYKEMKDLVKRHHKKTTDLIKEHTTKYN | 953 |
| Bos_taurus | TEDLIQSVLTEVEAQTIEELKQQKSFVKLQKKHYKEMKDLVKRHHKKTTDLIKEHTTKYN | 953 |
| Ornithorhynchus anatinus | SEDLIQSVLTEVEAQTIEELKQQKAFVKLQKKHYKEMKDLVKRHHKKTTDLIKEHTTKYN | 954 |
| Rhinatrema bivittatum | TEDLIQSILTEVEAQTIEELKQQKSFVKLQKKHYKEMKDLVKRHHKKTTDLIKEHTAKYN | 955 |
| Xenopus_tropicalis | TEDLILSVLTEVEAQTIEELKQQKAFVKLQKKHYKEMKDLVKRHHKKTTDLIKEHTAKYN | 956 |
| xenopus_cropicaris | 910920930940950960 | 930 |
| | 910920930940930 | |
| | | |
| | *** ***** *** *** *** * * *** * * *** * | |
| Pavo muticus | EIONDYLRRRAVLEKTAKROSKKRSETGS-PDHGLSTIEQELAALDSEMTOKLVELKEKO | 933 |
| Pavo_cristatus | EIONDYLRRRAVLEKTAKROSKKRSETGS-PDHGSSTIEOELAALDSEMTOKLVELKEKO | 933 |
| Gallus gallus | EIQNDYLRRRAVLEKTAKRDSKKRSETGS-PDHGSSTIEQELASLDSEMTQKLVELKEKQ | 1014 |
| Anas platyrhynchos | EIQNDYLRRRAVLEKTAKRDSKKKSETGS-PDHSSSTIEQELAALDSEMTQKLVELKEKQ | 1014 |
| Chelonia mydas | EIQNDYLRRRAVLEKTTKRDTKKRCETGS-PDH-SSTIEQELAALDSEMTQKLIELKEKQ | 1013 |
| Homo_sapiens | EIQNDYLRRRAALEKSAKKDSKKKSEPSS-PDHGSSTIEQDLAALDAEMTQKLIDLKDKQ | 1012 |
| Pan troglodytes | EIONDYLRRRAALEKSAKKDSKKKSEPSS-PDHGSSTIEODLAALDAEMTOKLIDLKDKO | 1016 |
| Macaca mulatta | EIONDYLRRRAALEKSAKKDSKKKSEPSS-PDHGSSTIEODLAALDAEMTOKLIDLKDKO | 1012 |
| Callithrix_jacchus | EIONDYLRRRAALEKSAKKDSKKKSEPSS-PDHGSSTIEODLAALDAEMTOKLIDLKDKO | 1012 |
| Mus musculus | EIONDYLRRRAALEKSAKKDSKKKSEPSS-PDHGSSAIEODLAALDAEMTOKLIDLKDKO | 1012 |
| Equus caballus | EIQNDYLRRRAALEKTAKKDSKKKSEPSS-PDHGSSTIEQDLAALDAEMTQKLIDLKDKQ | 1012 |
| Pteropus alecto | EIONDYLRRRAALEKTARKDSKKKSEPSS-PDHGSSMIEODLAALDAEMTOKLIDLKDKO | 1012 |
| Bos taurus | EIONDYLRRRAALEKTAKKDNKKKSEPSS-PDHVSSTIEODLAALDAEMTOKLVDLKDKO | 1012 |
| Ornithorhynchus anatinus | EIONDYLRRRAVLEKTAKRDSKKKSEASS-PDHGSSTIEODLAALDAEMTOKLIELKDKO | 1013 |
| Rhinatrema bivittatum | EIQNDYLRRRAVLEKSAKRDSKKKSETSS-PDHNSSTIEQDLAALDAEMAQKLIELKEQQ | 1014 |
| Xenopus tropicalis | EIQSDYLRRRAILEKTAKRDSKKKCEASSSPDHNSSTVEQDLSALDAEMAQKLIELKEQQ | 1016 |
| | 970980990100010101020 | |
| | | |
| | | |
| | **:****** ******** *************** ****** | |
| Pavo muticus | QQQLLNLRQEQYYSEKYQKREHIKLLIQKLTDVAEECQNSQLKKLKETCEKEKKELKKKM | 993 |
| Pavo_cristatus | QQQLLNLRQEQYYSEKYQKREHIKLLIQKLTDVAEECQNSQLKKLKETCEKEKKELKKKM | 993 |
| Gallus_gallus | QQQLLNLRQEQYYSEKYQKREHIKLLIQKLTDVAEECQNSQLKKLKETCEKEKKELKKKM | 1074 |
| Anas_platyrhynchos | QQQLLNLRQEQYYSEKYQKREHIKLLIQKLTDVAEECQNSQLKKLKETCEKEKKELKKKM | 1074 |
| Chelonia_mydas | QQQLLNLRQEQYYSEKYQKREHIKLLIQKLTDVAEECQSSQLKKLKETCEKEKKELKKKM | 1073 |
| Homo_sapiens | QQQLLNLRQEQYYSEKYQKREHIKLLIQKLTDVAEECQNNQLKKLKEICEKEKKELKKKM | 1072 |
| Pan_troglodytes | QQQLLNLRQEQYYSEKYQKREHIKLLIQKLTDVAEECQNNQLKKLKEICEKEKKELKKKM | 1076 |
| Macaca_mulatta | QQQLLNLRQEQYYSEKYQKREHIKLLIQKLTDVAEECQNNQLKKLKEICEKEKKELKKKM | 1072 |
| Callithrix_jacchus | QQQLLNLRQEQYYSEKYQKREHIKLLIQKLTDVAEECQNNQLKKLKEICEKEKKELKKKM | 1072 |
| Mus_musculus | QQQLLNLRQEQYYSEKYQKREHIKLLIQKLTDVAEECQNNQLKKLKEICEKEKKELKKKM | 1072 |
| Equus_caballus | QQQLLNLRQEQYYSEKYQKREHIKLLIQKLTDVAEECQNNQLKKLKEICEKEKKELKKKM | 1072 |
| Pteropus_alecto | QQQLLNLRQEQYYSEKYQKREHIKLLIQKLTDVAEECQNNQLKKLKEICEKEKKELKKKM | 1072 |
| Bos_taurus | QQQLLNLRQEQYYSEKYQKREHIKLLIQKLTDVAEECQNNQLKKLKEICEKEKKELKKKM | 1072 |
| Ornithorhynchus_anatinus | QQQLLNLRQEQYYSEKYQKREHIKLLIQKLTDVAEECQSNQLKKLKEICEKEKKELKKKM | 1073 |
| Rhinatrema_bivittatum | QQRLLNLRQEQYYSEKYQKREHIKQLIQKLTDVADECQNSQLKKLKETCEKEKKELKKKM | 1074 |
| Xenopus_tropicalis | QQQLLNLRQEQYYSEKYQKREHIKQLIQKLTDVAEECQSNQLKKLKETCEKEKKELKKKM | 1076 |
| | 103010401050106010701080 | |

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| | ******:**:**:**:**:** | |
|---|---|--|
| Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Mus_musculus Equus_caballus Pteropus_alecto Bos_taurus Ornithorhynchus_anatinus Rhinatrema_bivittatum Xenopus_tropicalis | DKKRQEKITEAKSKDKNQMEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLIEKHKEIR DKKRQEKITEAKSKDKNQMEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLIEKHKEIR DKKRQEKITEAKSKDKNQMEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLIEKHKEIR DKKRQEKITEAKSKDKNQMEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLIEKHKEIR DKKRQEKITEAKSKDKNQMEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLVEKHKEIR DKKRQEKITEAKSKDKSQMEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLVEKHKEIR DKKRQEKITEAKSKDKSQMEEEKTEMIRSYIQEVVQYIKRLEEAQSKRQEKLVEKHKEIR DKKRQEKITEAKSKDKSQMEEEKTEMIRSYIQEVVQYIKRLEEAQSKRQEKLVEKHKEIR DKKRQEKITEAKSKDKSQMEEEKTEMIRSYIQEVVQYIKRLEEAQSKRQEKLVEKHKEIR DKKRQEKITEAKSKDKSQMEEEKTEMIRSYIQEVVQYIKRLEEAQSKRQEKLVEKHKEIR DKKRQEKITEAKSKDKSQMEEEKTEMIRSYIQEVVQYIKRLEEAQSKRQEKLVEKHNEIR DKKRQEKITEAKSKDKSQMEEEKTEMIRSYIQEVVQYIKRLEEAQSKRQEKLVEKHNEIR DKKRQEKITEAKSKDKSQMEEEKTEMIRSYIQEVVQYIKRLEEAQSKRQEKLVEKHKEIR DKKRQEKITEAKSKDKSQMEEEKTEMIRSYIQEVVQYIKRLEEAQSKRQEKLVEKHKEIR DKKRQEKITEAKSKDKSQMEEEKTEMIRSYIQEVVQYIKRLEEAQSKRQEKLVEKHKEIR DKKRQEKITEAKSKDKSQMEEEKTEMIRSYIQEVVQYIKRLEEAQSKRQEKLVEKHKEIR DKKRQEKITEAKSKDKSQMEEEKTEMIRSYIQEVVQYIKRLEEAQSKRQEKLVEKHKEIR DKKRQEKITEAKSKDKSQMEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLVEKHKEIR DKKRQEKITEAKSKDKSQMEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLVEKHKEIR DKKRQEKITEAKSKDKSQMEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLVETHKEIR DKKRQEKITEAKSKDKSQLEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLVETHKEIR DKKRQEKVTETKSKDKNQMEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLVETHKEIR DKKRQEKVTETKSKDKNQMEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLVETHKEIR DKKRQEKVTETKSKDKNQMEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLVETHKEIR DKKRQEKVTETKSKDKNQMEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLVETHKEIR DKKRQEKVTETKSKDKNQMEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLVETHKEIR DKKRQEKVTETKSKDKNQMEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLVETHKEIR DKKRQEKVTETKSKDKNQMEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLUETHKEIR DKKRQEKVTETKSKDKNQMEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLUETHKEIR DKKRQEKVTETKSKDKNQMEEEKTEMIRSYIQEVVQYIKRLEDAQSKRQEKLUETHKEIR | 1053 1053 1134 1134 1133 1132 1136 1132 1132 1132 1132 1132 |
| Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Mus_musculus Equus_caballus Pteropus_alecto Bos_taurus Ornithorhynchus_anatinus Rhinatrema_bivittatum Xenopus_tropicalis | *********** **:*********************** | 1113 1113 1194 1194 1193 1192 1196 1192 1192 1192 1192 1193 1194 1196 |
| Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Chelonia_mydas Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Mus_musculus Equus_caballus Pteropus_alecto Bos_taurus Ornithorhynchus_anatinus Rhinatrema_bivittatum Xenopus_tropicalis | * * : : ***.: SNHKPLQSEEELEEDNSEKVFDTTF 1138 SNHKPLQSEEELEEDNSEKVFDTTF 1219 SNHKPLQSEEELEEDNSEKVFDTTF 1219 LNHKPLQSEEELEEDNSEKVFDTTF 1219 LNHKPLQSEELEEDNSEKVFDTTF 1218 VNHKTPSSEE-LGGDIPGKEFDTPL 1216 VNHKTPSSEE-LGGDIPGKEFDTPL 1220 VNHKTPSSEE-LGGDIPGKEFDTPL 1216 VNHKTPSSEE-LGGDIPGKEFDTPL 1216 VNHKTPSSEE-LGGDIPGKEFDTPL 1216 LNHRPPSSEE-LEGDNPGKEFDTPL 1216 LNHRPPSSEE-LEGDNPGKEFDTPL 1216 LNHRPPSSEE-LEGDNPGKEFDTPL 1216 LNHKPPQNEEGLEEDNHEKVFDTPL 1218 LNHKPPNEDEVEEDNPEKVFDTPL 1219 SPVSGNHRSPAHEAEGAAENPDKAFDTSL 1225 | |