CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

File: /media/morpheus/disk1/fst/pep_msa/KDHDaft2.flsue Feb $\,1\,12:30:40\,2022\,$ Page 1 of 3

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Pavo_muticus Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris Xenopus_tropicalis Rhinatrema_bivittatum	MGSRGCA-LLLLG-AALPLLGSAAVSPEQSLAWGPGLEAGLALPVRYFYMGSRGCA-LLLLG-AALPLLGSAAVSPEQSLAWGPGLEAGLALPVRYFYMGSRGCALLLLLG-AALPLLGSAAVSPERSLVWGPGLEAGLALPVRYFYMGSRGCALLLLLG-AALPLLGSAAVSPERSLVWGPGLEAGLALPVRYFYMQALPLG-LQLALLVAAGAG-ARVSAPRSLAWGPGLQAAAVLPVRYFFMRGVRRALLLPPLQLALLVAAGTG-ARVSAPRSLAWGPGLHADAVLPVRYFFMRRLPRALLLQ-LRLALLVAAGAPEVLVSAPRSLVWGPGLQAAVVLPVRYFYMRRLPRALLLQ-LRLALLVAAGAPEVLVSAPRSLVWGPGLQAAVVLPVRYFYMRSLPWALLLQ-LRLALLVAAGAPEVLVSAPRSLVWGPGLQAAVVLPVRYFYMRRLPRALLLLRLALLVAAGAPEAPVSAPRSLVWGPGLQAAVALPVRYFF	47 48 46 51 51 51 51 51 55 60
Pavo_muticus Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris Xenopus_tropicalis Rhinatrema_bivittatum	:*:*::*::*:::*::::::::::::::::::::::::	107 107 108 106 111 111 111 110 111 111 113 119
Pavo_muticus Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris Xenopus_tropicalis Rhinatrema_bivittatum	** **:*: ::*:**: **:** *********** :* **:** * **:** .* KGLKIEILYGDKHVAQSPYILKGPVYHEYCDCPEEDPEIWQNVFSCPSQEPQITKDFISF KGLKIEILYGDKHVAQSPYILKGPVYHEYCDCPEEDPEIWQNVFSCPSQEPQITKDFISF KGLKIEILYGDKHVAQSPYILKGPVYHEYCDCPEEDPEIWQNVFSCPSQEPQITKDFISF KGLKIEILHGSEHVAHSPYILKGPVYHEYCDCPEDDPQVWQETLSCPASEPQIEQDFVSF EGLKIEILYGGEHVAQSPYILKGPVYHEYCDCPEDDPQAWQKTLSCPANEPQIEQDFISF EGLKIEVLYGDEHVAQSPYILKGPVYHEYCECPE-DPQAWQKTLSCPTKEPQIAKDFASF EGLKIEVLYGDEHVAQSPYILKGPVYHEYCECPE-DPQAWQKTLSCPTKEPQIAKDFASF EGLKIEVLYGDEHVAQSPYILKGPVYHEYCECPE-DPQAWQKTLSCPTKEPQIAKDFASF AGLKIEVLYGDEHVAQSPYILKGPVYHEYCECPE-NPQAWQKTLSCPTKEPQIAKDFASF EGLKIEVLYGDEHVAQSPYILKGPVYHEYCECPE-DPQAWQKTLSCPTKEPQIAKDFASF AGLKIEVLYGDEHVAQSPYILKGPVYHEYCECPEEDPQAWQKTLSCPTKEPQIAKDFASF AGLKIEVLYGDEHVAQSPYILKGPVYHEYCECPEEDPQAWQKTLSCPTKEPQIAKDFASF QGLMIEVLHGDKHVAQSPYILKGPVYHEYCECPEEDPQAWQRTLSCPTKEPQIAKDFASF QGLMIEVLHGDKHVAQSPYILKGPVYHEYCDCPEEDPQAWQETLSCPDTEAQISKDFDPF KGLMIEVLHGEKQVAQSPYILKGPVYHEYCDCPEEDPWAWQKALSCPSEEQQITKDFESF 130140150160170180	167 168 166 171 170 170 169 171 171 173
Pavo_muticus Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris Xenopus_tropicalis Rhinatrema_bivittatum	*:*:* :* .*:*::*:: ***:*******:: *::*::*:********	224 224 225 223 228 227 227 226 228 231 229 236

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Pavo_muticus	KVHLPNVEFYLNVGDWPVEYRKANDTPGPIPIISWCGSVDSRDIVLPTYDIT	276
Pavo_cristatus	KVHLPNVEFYLNVGDWPVEYRKANDTPGPIPIISWCGSVDSRDIVLPTYDIT	276
Gallus_gallus	KVHLPNVEFYLNVGDWPVEYRKVNDTPGPIPIISWCGSVDSRDIVLPTYDVT	277
Mus_musculus	KVTLPDLEFYINLGDWPLEHRKVNDTPGPIPIISWCGSLDSRDIILPTYDVT	275
Rattus_norvegicus	KVTLPDLEFYINLGDWPLEHRKVNDTPGPIPIISWCGSLDSRDIILPTYDVT	280
Homo_sapiens	KVLLPDLEFYVNLGDWPLEHRKVNGTPSPIPIISWCGSLDSRDVVLPTYDIT	279
Pan_troglodytes	KVLLPDLEFYVNLGDWPLEHRKVNGTPSPIPIISWCGSLDSRDVVLPTYDIT	279
Macaca_mulatta	KVLLPDLEFYVNLGDWPLEHRKVNGTPSPIPIISWCGSLDSRDVVLPTYDIT	279
Callithrix_jacchus	KVLLPDLEFYVNLGDWPLEHRKVNGTPSPIPIISWCGSLDSRDIVLPTYDIT	278
Equus_caballus	KVLLPDLEFYVNLGDWPLEHRKVNETPGPLPIISWCGSLDSRDVILPTYDIT	280
Canis_lupus_familiaris		291
Xenopus_tropicalis	KVRLPDFEFYINVGDWPVEHRKANDTPGPLPMISWCGSADSRDIILPTYDIT	281
Rhinatrema_bivittatum	KVHLPDFEFYINVGDWPVEHRKVNATPGPLPIISWCGSADSRDIILPTYDIS	288
	250260270280290300	
	** ********* * * ********* ** ** **	
Danie muhi sus		226
Pavo_muticus	HSTLETLRGVTNDLLSIQGNTGPFWDNKTEQALFRGRDSREERLHLVKLSKENPELLDAG	336 336
Pavo_cristatus	HSTLETLRGVTNDLLSIQGNTGPFWDNKTEQALFRGRDSREERLHLVKLSKENPELLDAG HSTLETLRGVTNDLLSIQGNTGPFWDNKTEQALFRGRDSREERLYLVKLSKENPELLDAG	336
Gallus_gallus		337
Mus_musculus	HSTLEAMRGVTNDLLSVQGNTGPSWINKTEKAFFRGRDSREERLQLVLLSKENPQLLDAG	
Rattus_norvegicus	HSTLEAMRGVTNDLLSVQGNTGPSWINKTEKAFFRGRDSREERLQLVLLSKENPQLLDAG	340
Homo_sapiens	HSMLEAMRGVTNDLLSIQGNTGPSWINKTERAFFRGRDSREERLQLVQLSKENPQLLDAG	339
Pan_troglodytes	HSMLEAMRGVTNDLLSIQGNTGPSWINKTERAFFRGRDSREERLQLVQLSKENPQLLDAG	339
Macaca_mulatta	HSTLEAMRGVTNDLLSIQGNTGPSWINKTERAFFRGRDSREERLQLVQLSKENPQLLDAG	339
Callithrix_jacchus	HSTLEAMRGVTNDLLSIQGNTGPSWINKTERAFFRGRDSREERLQLVQLSQKNPQLLDAG	338
Equus_caballus	HSTLEAMRGVTNDLLSIQGNTGPSWINKTEKAFFRGRDSREERLQLVQLAKENPQLLDAG	340
Canis_lupus_familiaris		351
Xenopus_tropicalis	HSTLETLRGVTNDLLSIQGHTGPSWSNKTEQGFFRGRDSREERLQLVHMSRKHPELLDAG	341
Rhinatrema_bivittatum	HSTLETLRGVTNDLLSIQGHTGPPWNNKTEQAFFRGRDSREERLQLVQLSKKNPDLLDAG	348
	310320330340350360	
	****** * * **** * *********************	
Pavo_muticus	I <mark>TG</mark> YFFFR <mark>EKEKE</mark> L <mark>GK</mark> VPLM <mark>G</mark> FF <mark>D</mark> FF <mark>KYKYQ</mark> VNVDGTVAAYRFPYLLL <mark>GDS</mark> LVL <mark>KQDS</mark> QY	396
Pavo_cristatus	I <mark>TG</mark> YFFFR <mark>EKEKE</mark> L <mark>GKVP</mark> LMGFFDFFKYKYQVNVDGTVAAYRFPYLLL <mark>GDS</mark> LVLKQDSQY I <mark>TG</mark> YFFFR <mark>EKEKE</mark> L <mark>GKVP</mark> LMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY	396
Pavo_cristatus Gallus_gallus	ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY	396 397
Pavo_cristatus Gallus_gallus Mus_musculus	ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY	396 397 395
Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus	ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY	396 397 395 400
Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens	ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY	396 397 395 400 399
Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes	ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY	396 397 395 400 399 399
Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta	ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY	396 397 395 400 399 399 399
Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus	ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY	396 397 395 400 399 399 399 398
Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus	ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY	396 397 395 400 399 399 399 398 400
Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris	ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY	396 397 395 400 399 399 398 400 411
Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris Xenopus_tropicalis	ITGYFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSRY ITGYFFFFEELEELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSKY	396 397 395 400 399 399 398 400 411 401
Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris	ITGYFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFRELEEELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSKY ITGYFFFRELEEELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFRELEEELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY	396 397 395 400 399 399 398 400 411
Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris Xenopus_tropicalis	ITGYFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSRY ITGYFFFFEELEELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSKY	396 397 395 400 399 399 398 400 411 401
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Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris Xenopus_tropicalis Rhinatrema_bivittatum Pavo_muticus Pavo_cristatus Gallus_gallus	ITGYFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFRELEEELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFRELEEELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFRELEEELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRPPYLMLGDSLVLKQDSPY ITGYFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRPY	396 397 395 400 399 399 398 400 411 401 408
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Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris Xenopus_tropicalis Rhinatrema_bivittatum Pavo_muticus Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus	ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFTQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFTELEEELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFTELEEELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFTELEEELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFTELEELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFTTULKPWKHYVPVKRSLEDLLEKIKWAKENDEEAQKIAKEGQSVARELLQPHRLYC YEHFYTVLKPWKHYVPVKRSLEDLLEKIKWAKENDEEAQKIAKEGQSVARELLQPHRLYC YEHFYTVLKPWKHYVPVKRSLEDLLEKIKWAKENDEEAQKIAKEGQSVARELLQPHRLYC YEHFYTVLKPWKHYVPVKRSLEDLLEKIKWAKENDEEAQKIAKEGQSVARELLQPHRLYC YEHFYTVLKPWKHYVPIKRNLGDLLEKIKWAKENDEEAQKIAKEGQSVARELLQPHRLYC YEHFYVLKPWKHYVPIKRNLGDLLEKVKWAKENDEEAKKIAKEGQLTARDLLQPPRLYC YEHFYVLKPWKHYVPIKRNLGDLLEKVKWAKENDEEAKKIAKEGQLTARDLLQPPRLYC	396 397 395 400 399 399 398 400 411 401 408
Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris Xenopus_tropicalis Rhinatrema_bivittatum Pavo_muticus Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens	ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFRELEEELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKAKLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKAKLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKAKLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFREKEVELGKAKLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFREKEVELGKAKLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFREKECLGKAKLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFREKECLGKAKLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKAKIKIKGFDFKYKYQVNDGTVAAYRPY IKMYDDAYARYPYLMLGDSLVLKQDSAKYANDLEACKINGAGQUTATDLLQPPRLYCY YEHFYTOLKPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLTATDLLQPPRLYCY YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLTATDLLQPPR	396 397 395 400 399 399 398 400 411 401 408 456 457 455 460 459
Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris Xenopus_tropicalis Rhinatrema_bivittatum Pavo_muticus Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes	ITGYFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFYQEKEKELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFYQEKEKELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFYQEKEKELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFYQEKEKELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFYQEKEKELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFYQEKEKELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFYQEKEKELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFYVLKPWKHYVPVKRSLEDLLEKIKWAKENDEEAQKIAKEGQSVARELLQPHRLYC YEHFYTVLKPWKHYVPVKRSLEDLLEKIKWAKENDEEAQKIAKEGQSVARELLQPPRLYC YEHFYVALKPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLTARDLLQPPRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLMARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLMARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLMARDLLQPHRLYC	396 397 395 400 399 399 398 400 411 401 408 456 457 460 459 459
Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris Xenopus_tropicalis Rhinatrema_bivittatum Pavo_muticus Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta	ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYYQVNVDGTVAAYRPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYYQVNVDGTVAAYRPY ITGYFFREKYKYYPUNDGTVAAYNPY ITGYFFREKYKY	396 397 395 400 399 399 398 400 411 401 408 456 457 455 460 459 459
Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris Xenopus_tropicalis Rhinatrema_bivittatum Pavo_muticus Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus	ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFRELEEELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFRELEEELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFRELEEELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFRELEEELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYYQNNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEKULGKAKLIGFFDFFKYKYYQNNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEKELGKAKLIGFFDFFNYKYYQNNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEKELGKAKLIGKEGQVARELLQPHRLYC YEHFYTVLKPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLTARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLMARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLMARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLMARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLMARD	396 397 395 400 399 399 398 400 411 401 408 456 457 455 460 459 459 459 458
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Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris Xenopus_tropicalis Rhinatrema_bivittatum Pavo_muticus Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris	ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLLGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLLGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFPQEKEKELGKAKLLGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFPELEEELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEKELGKAKLGGGVARCLLQPHRLYC YEHFYTVLKPWKHYVPVKRSLEDLLEKIKWAKENDEEAKIAKEGQLTARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLMARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLMARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLMARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLMARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLTARELLQPHRLYC YEHFYMALOPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLTARELLQPHRL	396 397 395 400 399 399 398 400 411 401 408 456 457 459 459 459 459 458 460 471
Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris Xenopus_tropicalis Rhinatrema_bivittatum Pavo_muticus Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris Xenopus_tropicalis	ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFRELEEELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYYQVNVDGTVAAYRYPYLMLGDLLEKVKWAKENDEEAKKIAKEGQLTARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLMARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLMARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLMARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKIAKEGQLTARELLQPHRLYC YEH	396 397 395 400 399 399 398 401 401 408 456 457 459 459 459 459 459 460 471 461
Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris Xenopus_tropicalis Rhinatrema_bivittatum Pavo_muticus Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris	ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFGEKEKELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFTELEEELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFTEKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFTEKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFTEKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFTEKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFTEKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFTEKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFTEKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFFTEKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFTEKEVELEGKASLIGFFDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFTTEKEVELGCHASLIGFTDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVLKQDSPY ITGYFFTTEKEVELGCHASLIGFTDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVKQDSPY ITGYFFTTEKEVELGCHASLIGFTDFFKYKYQVNVDGTVAAYRFPYLMLGDSLVKQDSPY ITGYFFTTEKEVELGCHASTATATATATATATATATATATATATATATATATATAT	396 397 395 400 399 399 398 400 411 401 408 456 457 459 459 459 459 458 460 471
Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris Xenopus_tropicalis Rhinatrema_bivittatum Pavo_muticus Pavo_cristatus Gallus_gallus Mus_musculus Rattus_norvegicus Homo_sapiens Pan_troglodytes Macaca_mulatta Callithrix_jacchus Equus_caballus Canis_lupus_familiaris Xenopus_tropicalis	ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFREKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRFPYLLLGDSLVLKQDSQY ITGYFFFQEKEKELGKVPLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSQY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQESPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLMGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKAKLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFQEKEKELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFRELEEELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYYQVNVDGTVAAYRYPYLMLGDSLVLKQDSPY ITGYFFFREKEVELGKASLIGFFDFFKYKYYQVNVDGTVAAYRYPYLMLGDLLEKVKWAKENDEEAKKIAKEGQLTARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLMARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLMARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKKIAKEGQLMARDLLQPHRLYC YEHFYMALEPWKHYVPIKRNLSDLLEKVKWAKENDEEAKIAKEGQLTARELLQPHRLYC YEH	396 397 395 400 399 399 398 401 401 408 456 457 459 459 459 459 459 460 471 461

CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

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Pavo_muticus	YYY.	KVL	QK	ΊΑE	RQA	SK	PE:	IRI)GME	LVP	QP	DD R	DS	VCS	CHI	RKK <mark>P</mark>	LR	E D L	504
Pavo_cristatus	YYY.	KVL	QK	ÆΕ	RQA	SK	PE]	IRI	OGME	LVP	QP	DD R	DS	V <mark>C</mark> S	CHI	RKK <mark>P</mark>	LR	E DL	504
Gallus_gallus	YYY.	KVL	QK	ÆΕ	RQA	SE	PE:	IRI	OGME	LVP	QP	DD R	DS	V <mark>C</mark> S	CHI	RKK <mark>P</mark>	LR	E DL	505
Mus_musculus	YYY.	RVL	QK	ΆE	RQA	SK	PM:	IRI	OGME	LVP	QP	DDG	TS	ICC	CHI	RRRP	ER	EEL	503
Rattus_norvegicus	YYY.	RVL	QK	ÆΕ	RQV	SK	PM:	IRI	OGME	RV <mark>P</mark>	QP	DD S	TS	VRÇ	CHI	RKR <mark>P</mark>	ER	EEL	508
Homo_sapiens	YYY	ZVL	QK	ÆΕ	RQS	SK	PE	/RI	OGME	LVP	QΡ	ED S	TZ	YI <mark>C</mark> Č	CHI	RKK <mark>P</mark>	SR	EEL	507
Pan_troglodytes	YYY	QVL	QK	ÆΕ	RQS	SK	PE	/RI	OGME	LVP	QP	ED S	T.Z	YI <mark>C</mark> Č	CHI	RKK <mark>P</mark>	SR	EEL	507
Macaca_mulatta	YYY	QVL	QK	ÆΕ	RQS	SK	PE	/RI	OGME	LVP	QP	EDN	TZ	YI <mark>C</mark> Č	CHI	RKK <mark>P</mark>	SR	EEL	507
Callithrix_jacchus	YYY	QVL	QK	ÆΕ	RQS	SK	PE	/RI	OGME	LVP	QP	ED S	T.Z	YI <mark>C</mark> Č	CHI	RKK <mark>P</mark>	SR	EEL	506
Equus_caballus	YYY	RVL	QK	ÆΕ	RQS	SK	PE:	IRI	OGME	LVP	QP	KDN	E	ICC	CHI	RKR <mark>P</mark>	LR	EEL	508
Canis_lupus_familiaris	YYY.	RVL	QK	ΆE	RQS	SR	PK	IRI	OGME	LVP	QP	DD N	TS	M <mark>C</mark> Ç	CHI	RERP	FR	EEL	519
Xenopus_tropicalis	YYY.	KLF	EN	'AK	RQI	'SK	PE:	ERE	ENME	HVP	QP	DD S	SZ	MCC	CHI	RKKR	SK	EEL	509
Rhinatrema_bivittatum	YVY	KVF	QT'	AK	RQI	SA	PE:	IR/	AGME	LVP	QΤ	EDN	AS	A <mark>C</mark> H	CHI	RKEF	LK	EEL	516
			. 49	0.			. 50	00.			51	0			520)			