## CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

File: /media/morpheus/disk1/fst/pep\_msa/KCTD20:psue Feb 1 12:27:15 2022 Page 1 of 2

	** :	
Mus_musculus Rattus_norvegicus Pan_troglodytes Macaca_mulatta Homo_sapiens Callithrix_jacchus Heterocephalus_glaber Canis_lupus_familiaris Equus_caballus Pavo_muticus Pavo_cristatus Gallus_gallus Chelonia_mydas	MNVHQGSDGDWSLQPELSCLGDE	23 23 23 23 23 23 23 49 23 57 57 57
Mus_musculus Rattus_norvegicus Pan_troglodytes Macaca_mulatta Homo_sapiens Callithrix_jacchus Heterocephalus_glaber Canis_lupus_familiaris Equus_caballus Pavo_muticus Pavo_cristatus Gallus_gallus Chelonia_mydas	: *:	82 82 82 82 82 108 82 115 115 115
Mus_musculus Rattus_norvegicus Pan_troglodytes Macaca_mulatta Homo_sapiens Callithrix_jacchus Heterocephalus_glaber Canis_lupus_familiaris Equus_caballus Pavo_muticus Pavo_cristatus Gallus_gallus Chelonia_mydas	: *: *: *: *: *: *: *: *: *: *: *: *: *:	142 141 142 142 142 141 168 142 172 172 172
Mus_musculus Rattus_norvegicus Pan_troglodytes Macaca_mulatta Homo_sapiens Callithrix_jacchus Heterocephalus_glaber Canis_lupus_familiaris Equus_caballus Pavo_muticus Pavo_cristatus Gallus_gallus Chelonia_mydas	**************************************	202 201 202 202 202 201 228 202 232 232 232 201

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File: /media/morpheus/disk1/fst/pep\_msa/KCTD20:psue Feb 1 12:27:15 2022 Page 2 of 2

Mus_musculus Rattus_norvegicus Pan_troglodytes Macaca_mulatta Homo_sapiens Callithrix_jacchus Heterocephalus_glaber Canis_lupus_familiaris Equus_caballus Pavo_muticus	**************************************	262 261 262 262 262 262 261 288 262 292
Pavo_marieds Pavo_cristatus Gallus_gallus Chelonia_mydas	DYLCINFDFNTIKCODLSALLHELSNDGAHKQFDSYLEELILPIMVDSARKGERECHIVV DYLCINFDFNTIKCODLSALLHELSNDGAHKQFDSYLEELILPIMVDSARKGERECHIVV DYLCINFDFNTIKCODLSALLHELSNDGAHKQFDNYLEELILPIMVGSAKKGERECHIVV250260270280290300	292 292 261
Mus_musculus Rattus_norvegicus Pan_troglodytes Macaca_mulatta Homo_sapiens Callithrix_jacchus Heterocephalus_glaber Canis_lupus_familiaris Equus_caballus Pavo_muticus Pavo_cristatus Gallus_gallus Chelonia_mydas	LTDEDSVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKTVLKERGLKNIRIGIE LTDEDSVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKTVLKERGLKNIRIGIE LTDEDSVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKTVLKERGLKNIRIGIE LTDEDSVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKTVLKERGLKNIRIGIE LTDEDSVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKTVLKERGLKNIRIGIE LTDEDSVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKTVLKERGLKNIRIGIE LTDEDSVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKTVLKERGLKNIRIGIE LTDEDSVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKTVLKERGLKNIRIGIE LTDEDSVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKTVLKERGLKNIRIGIE LTDEDTVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKAVLKERGLKNIRIGIE LTDEDTVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKAVLKERGLKNIRIGIE LTDEDTVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKAVLKERGLKNIRIGIE LTDEDTVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKAVLKERGLKNIRIGIE LTDEDTVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKAVLKERGLKNIRIGIE LTDEDTVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKAVLKERGLKNIRIGIE LTDEDTVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKTVLKEHGLKNIRIGIE LTDEDTVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKTVLKEHGLKNIRIGIE LTDEDTVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKTVLKEHGLKNIRIGIE LTDEDTVDWDEDHPPPMGEEYSQILYSSKLYRFFKYIENRDVAKTVLKEHGLKNIRIGIE	322 321 322 322 322 321 348 322 352 352 352 321
Mus_musculus Rattus_norvegicus Pan_troglodytes Macaca_mulatta Homo_sapiens Callithrix_jacchus Heterocephalus_glaber Canis_lupus_familiaris Equus_caballus Pavo_muticus Pavo_cristatus Gallus_gallus Chelonia_mydas	GYPTCKEKIKRRPGGRSEVIYNYVQRPFIQMSWEKEEGKSRHVDFQCVRSKSLTNLVAAG GYPTCKEKVKRRPGGRSEVIYNYVQRPFIQMSWEKEEGKSRHVDFQCVRSKSLTNLVTVG GYPTCKEKVKRRPGGRSEVIYNYVQRPFIQMSWEKEEGKSRHVDFQCVRSKSLTNLVTVG GYPTCKEKVKRRPGGRSEVIYNYVQRPFIQMSWEKEEGKSRHVDFQCVRSKSLTNLVTVG GYPTCKEKVKRRSGGRSEVIYNYVQRPFIQMSWEKEEGKSRHVDFQCVRSKSLTNLVTVG GYPTCKEKVKRRSGGRSEVIYNYVQRPFIQMSWEKEEGKSRHVDFQCVRSKSLTNLVAVG370380390400410420	382 381 382 382 382 381 408 382 412 412 381
Mus_musculus Rattus_norvegicus Pan_troglodytes Macaca_mulatta Homo_sapiens Callithrix_jacchus Heterocephalus_glaber Canis_lupus_familiaris Equus_caballus Pavo_muticus Pavo_cristatus Gallus_gallus Chelonia_mydas	EDVLEDQEIIMHHPPQVDELDRLNAPLSQMAPNDFQD 419  EDVLEDQEIIMHHPPQVDELDRLNAPLAQMAPNDFQD 418  DDVLEDQEILMHHPPQVDELDRLNAPLSQMASNDFQD 419  DDVLEDHEILMHHPPQVDELDRLNAPLSQMASNDFQD 419  DDVLEDQEILMHHPPQVDELDRLNAPLSQMASNDFQD 419  EDVLEDQEILMHHPPQVDELDRLNAPLSQMASNDFQD 419  EDVLEDQEILMHHPPQVDELDRLNAPLSQMASNDFQD 419  EDVLEDPEMLMHHPPQVDELDRLNAPLVQMVSHDFQD 418  EDVLEDHEILMHHPPQVDELDRLNAPLSQMASNDFQD 445  EDVLEDQEVLMYHPPQVDELDRLNAPLSQMASNDFQD 445  EDVLEDQEVLMYHPPQVDELDRLNAPLSQMASNDFQD 419  DDVSEDHEVIMHHPPQVDELDRLNAPFSQMAVNDLPD 449  DDVSEDHEVIMHHPPQVDELDRLNAPFSQMAVNDLPD 449  EDVSEDQELLMHHPPQVDELDRLNAPFSQMAVNDLPD 449  EDVSEDQELLMHHPPQVDELDRLNAPFSQMAVNDLPD 449  EDVSEDQELLMHHPPQVDELDRLNAPFSQMAVNDLPD 449  EDVSEDQELLMHHPPQVDELDRLNAPFSQIVPNDLPD 418	