CLUSTAL O(1.2.4) multiple sequence alignment

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Homo_sapiens                MPDNRQPRNRQPRIRSGNEPRSAPAMEPDG-----RGAWAHSRAALDRLEKLLRCSRCTN          55
Felis_catus                 -----MPGNRQLRVRSGNEPRPAPAMEPEG-----RGAWAHSRAAFDRLEKLLRCSRCTN          50
Canis_lupus_familiaris      -------------------------------------------------------SNSSN          5
Mus_musculus                ------MPRRPPRVCSGNQPAPVPAMEPAT-----DGLWAHSRAALARLEKLLRCSRCAN          49
Monodelphis_domestica       -----MQRDQPLKVRSGNEQWPESSMQPAGGGGVGAGAWNHSREALELLETQLRCSRCLN          55
Ovis_aries                  RGAGHARGNRQPRVRSGNQSHPAPAMKPAG-----LGAWAHSRAALDRLEKLLRCSRCTN          55
                                                                                        *.. *

Homo_sapiens                ILREPVCLGGCEHIFCSNCVSDCIGTGCPVCYTPAWIQDLKINRQLDSMIQLCSKLRNLL          115
Felis_catus                 ILREPVCLGGCEHIFCSNCVSDCIGTGCPVCYTPAWIQDVKINRQLDSMIQLCSKLRNLL          110
Canis_lupus_familiaris      ILREPVCLGGCEHIFCSNCVSDCIGTGCPVCYTPAWIQDVKINRQLDSMIQLCSKLRNLL          65
Mus_musculus                ILKEPVCLGGCEHIFCSGCISDCVGSGCPVCYTPAWILDLKINRQLDSMIQLSSKLQNLL          109
Monodelphis_domestica       ILREPVCLGGCEHIFCSVCVGDCIGTECPVCHTPAWIQDVKINRQLDNMIQLCSRLRNLL          115
Ovis_aries                  ILREPVCLGGCEHIFCSYCVSDCIGSECPVCYTPAWIQDVKINRQLDSMIQLCSKLRNLL          115
                            **:***********:***** *:.**:*: ****:***** *:**:****.****.*:*:***

Homo_sapiens                HDNELSDLKEDKPRKSL-FNDAGNKKNSIKMWFSPRSKKVRYVVSKASVQTQPAIKKDAS          174
Felis_catus                 HDNKLSDLKEDTSRQNV-FNDAENKKNSIKMWFSPRSKKVRYVVTKVSVQTQPQVIDDGN          169
Canis_lupus_familiaris      HDDKLSDLKEDTSRENL-FNDAENKKNSIKMWFSPRSKKVRYVVSKVSVQTHPQVISDEN          124
Mus_musculus                HDNK--DSKDNTSRASL-FGDAERKKNSIKMWFSPRSKKVRYVVTKVSVQTQPQKAKDDK          166
Monodelphis_domestica       HNTTGTDEEESTPRTRASLDEDENNKKFIKMWFSPRSKKVRYVLNKTLVQTQPQPVENE-          174
Ovis_aries                  HDTDLSDMKEETSRKRL-FKDAQSKKNSIKMWFSPRSKKVRYTVSKLSVQTHPSVKNDEN          174
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Homo_sapiens                AQ-QDSYEFVSPSPPADVSERAKKASARSGKKQKKKTLAEINQKWNLEAEKEDGEFDS--          231
Felis_catus                 AQQASVYKFVSTSPPTSVPERAKKASTRSRKKQKKKTLAEINQEWNFEAEKEDGEPDS--          227
Canis_lupus_familiaris      ARQASMYEFVSTSPPTSVSERAKKARTRSRKKQKKKTLTEINQKWNLEAEKEDDELDS--          182
Mus_musculus                AQEASMYEFVSATPPVAVPKSAKTASRTSAKKHPKKSVAKINREENLRPETKDSRFDS--          224
Monodelphis_domestica       -QDYQAFEFSSSSLEKDSPQRPKKVTRKTRKKQKKRSLVEINKKWDLEEEKQKEIHQPDE          233
Ovis_aries                  AQQTSMYEFVSMTPPVEVSERPKKPSTKSRKKQKKKTLAEVNQKWNLEAEKEDGDLDS--          232
                             :  . ::* * :      :  *.    : **: *:::.::*:: ::. *.:.   :

Homo_sapiens                --KEESKQKLVSFCSQPSVISSPQINGE--IDLLASGSLTESECFGSLTEVSLPLAEQIE          287
Felis_catus                 --KEEFKEKLVSFCSQPSVIASPQTNGG--IDLLASDSVTESECSRSLTEVSLPLAEQIE          283
Canis_lupus_familiaris      --KEEFKEKLVSFCSQPSVNPSPQANGE--IDLLASGSVTESQCFSSLAEVSLPLAEQIE          238
Mus_musculus                --KEELKEEKVVSCSQIPVMERPRVNGE--IDLLASGSVVEPECSGSLTEVSLPLAEHIV          280
Monodelphis_domestica       SFNEKPKEKSVSFCNQPSVLGTPENPPVLNGDLLDHGSVTEAVPTAVVTESSPLPVTQAD          293
Ovis_aries                  --KEESKEKLVSFCSQPSVIPNLQINGE--IDLLASGSVTESECFGSLAEVFLPLAEHIE          288
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Homo_sapiens                SPDTKSRNEV-VTPEK-VCKNYLTSKKSLPLENNGKRGHHN--RLSSPISKRCRTSILST          343
Felis_catus                 SPETGSRNED-ATPEKNACVDHLTSKQPLPSGHNGRPGRRS--RRSSPVSKRCRSSIPGT          340
Canis_lupus_familiaris      SPELESRNEE-LTPQKNLCENPLPPKQSLPSGHSGRRGRRS--SRSSPISKRCRSSIPGT          295
Mus_musculus                SPDTVSKNEE--TPEKKVCVKDLRS-----GGSNGNRKGCH--RPTTSTSDSCGSNIPST          331
Monodelphis_domestica       SVEMDRDSEVASSHPESFCEDNFTSETSLPLRNGGAWERQQPNSFVVPVSKRPRRR---R          350
Ovis_aries                  SPETESKNEV-VTPEKTVSANYLPSKKSLPSGCNGKLGHHD--RIFSPVSKRCRSSSRST          345
                            * :    .*   :  :  . . :          .*             *.

Homo_sapiens                SGDFVKQTVPSENIPLPE-------CSSPPSCKRKVGGTSGRKNSNMSDEFISLSPGT--          394
Felis_catus                 SGQ---QMLLSENKPLPG-------CSSPPPSKRKVGDTLRRKNSNISDESMSLSPGT--          388
Canis_lupus_familiaris      SSQ---HTVLSESKPLPG-------CSSPPSSKLKIGDTLRRKNSNLSVESMTLSPGT--          343
Mus_musculus                SRGIGEPALLAENVVLVD-------CSSLPSGQLQVDVTLRRK-SNASDDPLSLSPGT--          381
Monodelphis_domestica       SQQRVRRASLSSDVPLESLTPREESAPSPTSKSLADEPFLRVRNSDVLNDSINFSPHKSS          410
Ovis_aries                  GGNSVKQTVLSENMPLPA-------CSSPPSN-KKAGDTLRRRSHTILDESISLSPGT--          395
                            .         :..  *         . *           :      : :.:** .

Homo_sapiens                ---PPSTLSSSSYRRVMSSPSAMKLLPN--MAVKRNHRGETLLHIASIKGDIPSVEYLLQ          449
Felis_catus                 ---PPSTLNSPSYRRMMFSPSAVKLSPGSLTAVKRNHRGETLLHIASIKGDLPSVEYLLQ          445
Canis_lupus_familiaris      ---PPSALNSPRYRRMMSSPSATKLSPNSLTAVKRNHRGETLLHIASIKGDVPSVEYLLQ          400
Mus_musculus                ---PPPLLNNSTHRQMMSSPSTVKLSSG-MPARKRNHRGETLLHIASIKGDIPSVEYLLQ          437
Monodelphis_domestica       GTSSSSLLNSPCQPWIVSSPSVVKMSPTSPMTVKRNHRGETLLHIASIKGDIPSVERLLQ          470
Ovis_aries                  ---PPSALNSPSYRRMMCSPSATKLWPVSLTAVKRNHRGETLLHIASIKGDIPSVEYLLQ          452
                                     *..     :: ***. *:      : ************:*****:**** ***

Homo_sapiens                NGSDPNVKDHAGWTPLHEACNHGHLKVVELLLQHKALVNTTGYQNDSPLHDAAKNGHVDI          509
Felis_catus                 NGSDPNVKDHAGWTPLHEACNHGHLKVVELLLQHKALVNSTGYQNDSPLHDAAKNGHMDI          505
Canis_lupus_familiaris      NGSDPNVKDHAGWTPLHEACNHGHLKVVELLLQHQALVNTPGYQNDSPLHDAARNGHLEI          460
Mus_musculus                NGNDPNVKDHAGWTPLHEACSHGHLKVVELLLQHNALVNTPGYQNDSPLHDAVKSGHIDI          497
Monodelphis_domestica       NGSDPNVKDHAGWTPLHEACNHGHQKVVELLLEHKALVNTTGYQNDSPLHDAVRNGHVSI          530
Ovis_aries                  SGSDPNVKDHAGWTPLHEACNHGHLKVVELLLQHKALVNTTGYQNDSPLHDAVKNGHVDI          512
                            .*.*******************.*** ******:*:*:***: ***********.:.*:*:.*

Homo_sapiens                VKLLLSYGASRNAVNIFGLRPVDYTDDESMKSLLLLPEKNESSSASHCSV-MNTGQRRDG          568
Felis_catus                 VKLLLSYGASRNAVNIFGLRPVDYADGENMKSLLLLPEQNESSSTRHCSV-TNTGQRRDG          564
Canis_lupus_familiaris      VKLLLASGASRDAVNIFGLRPVDYADNENMKSLLLLPEKNESSSTRHYSV-PNTGQRRDG          519
Mus_musculus                VKVLLSHGASRNAVNIFGVRPVDYTDNENIRSLLLLPEENESFSTSQCSI-VNTGQRKNG          556
Monodelphis_domestica       AKLLLSHGASRSAVNIFGLRPVDYAETEAMKSVLLLPEESEIYEIGQCSKSLNTSYRRDD          590
Ovis_aries                  VKLLLAYGASREAVNIFGLRPVDYADSKDMKSLLLLPEKKASSSISHCSV-VNTGQRRDG          571
                            .*:**: ****.*******:*****:: : :.*:*****:.   .  : *   **. *::.

Homo_sapiens                PLVLIGSGLSSEQQKMLSELAVILKAKKYTEFDSTVTHVVVPGDAVQSTLKCMLGILNGC          628
Felis_catus                 PLVLIGSGLSSEQQKMLSELAVILKAKKCAEFDSTVTHVIVPGDTVQSTLKCMLGILNGC          624
Canis_lupus_familiaris      PLVLIGSGLSSEQQKMLSELAAILKAKKCAEFDNTVTHVIVPGDTVQSTLKCMLGILNGC          579
Mus_musculus                PLVFIGSGLSSQQQKMLSKLETVLKAKKCMEFDSTVTHVIVPDEEAQSTLKCMLGILSGC          616
Monodelphis_domestica       PLVLLSSGLTSDQQKLLSKLSAVLKAKKCTEFNSMVTHIIVPGDTAQRTMKCILGIISGC          650
Ovis_aries                  PLALIGSGLSSEQQKMLSELVTILKAKKCAEFDSTVTHVIVPGDTVQSTLKCMLGILSGC          631
                            **.:.:.**:*:***:**:* .:*****  **:. ***::**.: .* *:**:***:.**
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Homo_sapiens                WILKFEWVKACLRRKVCEQEEKYEIPEGPRRSRLNREQLLPKLFDGCYFYLWGTFKHHPK          688
Felis_catus                 WILKFEWVKACLQRKACEQEEKYEIPEGPQRSRLNKEQLLPKLFDGCYFYFGGAFKHHPK          684
Canis_lupus_familiaris      WILKFEWVKACLQRKACEQEEKYEIPEGPHRSRLNKEQLLPKLFDGCYFYFGGTFKHHPK          639
Mus_musculus                WILKFDWVKACLDSKVREQEEKYEVPGGPQRSRLNREQLLPKLFDGCYFFLGGNFKHHPR          676
Monodelphis_domestica       WILKFDWVKACLESRMCEPEEKYEILGGPQRSRLNREQLLPKLFDGCYFYFEGIFKHHSK          710
Ovis_aries                  WILKFEWVKACLQSKECEQEEKYEIPEGPQKSRLNREQLLPKLFDGCYFYLGGTFKHHPK          691
                            *****:******  :  * *****:  **::****:*************:: * **** :

Homo_sapiens                DNLIKLVTAGGGQILSRKPKPDSDVTQTINTVAYHARPDSDQRFCTQYIIYEDLCNYHPE          748
Felis_catus                 DNLVKLVTAAGGQVLSRKPKPDSDVTQTINTVAYHAKADSDQRFCTQYIIYEDLSNHRPE          744
Canis_lupus_familiaris      DNLIKLVTAAGGQVLSRKPKPDSDVTQTINTVAYHARPDSDQRFCTQYIIYEDLSNHHPK          699
Mus_musculus                DDLLKLIAAAGGKVLSRKPKPDSDVTQTINTVAYHAKPESDQRFCTQYIVYEDLFNCHPE          736
Monodelphis_domestica       DELVKLAKESGGQILNRKPKPDSDVTQTINTVSYHARPDSDQRFCTQYIIYDAFSNYHPE          770
Ovis_aries                  DNLIKLVAAGGGQILIRKPKPDSDVTQTINTVAYHAKPDSDQRFCTQYIIYEDLSNYRPE          751
                            *:*:**   .**::* ***********************:***: :***********:*: : * :*:

Homo_sapiens                RVRQGKVWKAPSSWFIDCVMSFELLPLDS        777
Felis_catus                 RVRQGKVWMAPSSWFIDCVMSFELLPLDS        773
Canis_lupus_familiaris      RVRQGKVWMAPSSWFIDCVMSFELLPLDS        728
Mus_musculus                RVRQGKVWMAPSTWLISCIMAFELLPLDS        765
Monodelphis_domestica       RVRQGKVWMAPSNWFIDCLMAFQVLPVTK        799
Ovis_aries                  RVRQGKVWMAPSSWFIDCVMSFELLPLDN        780
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