<html><head><style type="text/css"></style></head><body><pre style="word-wrap: break-word; white-space: pre-wrap;">CLUSTAL 2.1 multiple sequence alignment

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humanCLCN5          MAMWQGAMDNRGFQQGSFSSFQNSSSDEDLMDIPATAMDFSMRDDVPPLDREVGEDKSYN 60
mouseCLCN5          MAMWQGAMDNRGFHQGSFSSFQSSSSDEDLMDIPGTAMDFSMRDDVPPLDREIEGNKSYN 60
zebrafishCLCN5      -------MDNTGYCGESFNSLQSGTSDEDLVEIAGATLDFSSTDDVPPLDRDYGSGVSYG 53
                           *** *:   **.*:*..:*****::*..:::***  ********:   . **.

humanCLCN5          GG-GIGSSNRIMDFLEEPIPGVGTYDDFNTIDWVREKSRDRDRHREITNKSKESTWALIH 119
mouseCLCN5          GG-GIGSSNRVMDFLEEPIPGVGTYDDFNTIDWVREKSRDRDRHREITNKSKESTWALIH 119
zebrafishCLCN5      AGEGPNGIPKLMDLLDEPVPGVGTYEDFNTIDWVREKSKDRDRHREIAIKSKESTWALLK 113
                    .* * ..  ::**:*:**:******:***********:********: *********::

humanCLCN5          SVSDAFSGWLLMLLIGLLSGSLAGLIDISAHWMTDLKEGICTGGFWFNHEHCCWNSEHVT 179
mouseCLCN5          SVSDAFSGWLLMLLIGLLSGSLAGLIDISAHWMTDLKEGICTGGFWFNHEHCCWNSEHVT 179
zebrafishCLCN5      RISDAFSGWLLMLLVGLMSGALAGGIDISAHWMTDLKEGVCLNGFWFNHEHCCWNSNETT 173
                     :************:**:**:*** **************:* .*************:..*

humanCLCN5          FEERDKCPEWNSWSQLIISTDEGAFAYIVNYFMYVLWALLFAFLAVSLVKVFAPYACGSG 239
mouseCLCN5          FEHRDKCPEWNSWAQLIINTDQGAFAYIVNYFMYVLWALLFAFLAVSLVKAFAPYACGSG 239
zebrafishCLCN5      FQERDKCPKWKSWAELIVGTNSGPFAYIMNYLMYVSWALLFSFLAVSLVRAFAPYACGSG 233
                    *:.*****:*:**::**:.*:.*.****:**:*** *****:*******:.*********

humanCLCN5          IPEIKTILSGFIIRGYLGKWTLVIKTITLVLAVSSGLSLGKEGPLVHVACCCGNILCHCF 299
mouseCLCN5          IPEIKTILSGFIIRGYLGKWTLVIKTITLVLAVSSGLSLGKEGPLVHVACCCGNILCHCF 299
zebrafishCLCN5      IPEIKTILSGFIIRGYLGKWTLMIKTITLVLAVSSGLSLGKEGPLVHVACCCANILCHLF 293
                    **********************:*******************************.***** *

humanCLCN5          NKYRKNEAKRREVLSAAAAAGVSVAFGAPIGGVLFSLEEVSYYFPLKTLWRSFFAALVAA 359
mouseCLCN5          NKYRKNEAKRREVLSAAAAAGVSVAFGAPIGGVLFSLEEVSYYFPLKTLWRSFFAALVAA 359
zebrafishCLCN5      TKYRRNEAKRREVLSAAAAVGVSVAFGAPIGGVLFSLEEVSYYFPLKTLWRSFFAALVAA 353
                    .***:**************.****************************************

humanCLCN5          FTLRSINPFGNSRLVLFYVEFHTPWHLFELVPFILLGIFGGLWGALFIRTNIAWCRKRKT 419
mouseCLCN5          FTLRSINPFGNSRLVLFYVEFHTPWHLFELVPFIVLGIFGGLWGALFIRTNIAWCRKRKT 419
zebrafishCLCN5      FTLRSINPFGNSRLVLFYVEFHSPWHLLELIPFILLGIFGGIWGAFFIRANIWWCRRRKT 413
                    **********************:****:**:***:******:***:***:** ***:***

humanCLCN5          TQLGKYPVIEVLVVTAITAILAFPNEYTRMSTSELISELFNDCGLLDSSKLCDYENR-FN 478
mouseCLCN5          TQLGKYPVVEVLIVTAITAILAFPNEYTRMSTSELISELFNDCGLLDSSKLCDYENH-FN 478
zebrafishCLCN5      TRLGHYPVLEVLVVTAVTAVLAFPNSYTRMSTSELISELFNDCGLLDSSQLCNYSNVSVT 473
                    *:**:***:***:***:**:*****.************************:**:*.*  ..

humanCLCN5          TSKGGELPDRPAGVGVYSAMWQLALTLILKIVITIFTFGMKIPSGLFIPSMAVGAIAGRL 538
mouseCLCN5          TSKGGELPDRPAGVGIYSAMWQLALTLILKIVITIFTFGMKIPSGLFIPSMAVGAIAGRL 538
zebrafishCLCN5      KSSSDALPDRPAGPDVYTAMWQLSLALIFKMLITVVTFGMKLPSGLFIPSMAVGAIAGRL 533
                    .*... ******* .:*:*****:*:**:*::**:.*****:******************

humanCLCN5          LGVGMEQLAYYHQEWTVFNSWCSQGADCITPGLYAMVGAAACLGGVTRMTVSLVVIMFEL 598
mouseCLCN5          LGVGMEQLAYYHHDWGIFNSWCSQGADCITPGLYAMVGAAACLGGVTRMTVSLVVIMFEL 598
zebrafishCLCN5      LGVGMEQLAYYHHDWVIFRGWCSPGADCITPGLYAMVGATACLGGVTRMTVSLVVIMFEL 593
                    ************::* :*..*** ***************:********************

humanCLCN5          TGGLEYIVPLMAAAMTSKWVADALGREGIYDAHIRLNGYPFLEAKEEFAHKTLAMDVMKP 658
mouseCLCN5          TGGLEYIVPLMAAAMTSKWVADALGREGIYDAHIRLNGYPFLEAKEEFAHKTLAMDVMKP 658
zebrafishCLCN5      TGGLEYIVPLMAATMTSKWVADALGREGIYEAHIRLNGYPFLESKEEFSHKTLAMDVMRP 653
                    ************:***************:***********:****:*********:*

humanCLCN5          RRNDPLLTVLTQDSMTVEDVETIISETTYSGFPVVVSRESQRLVGFVLRRDLIISIENAR 718
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mouseCLCN5          RRNDPLLTVLTQDSMTVEDVETIISETTYSGFPVVVSRESQRLVGFVLRRDLIISIENAR 718
zebrafishCLCN5      RRSDPPLSVITQDGMNVEEVESLIAETSYSGFPVVVSHESQRLVGFVQRRDLVISIDNAR 713
                    **.** *:*:***.*.**:**::*:**:*********:********* ****:***:***

humanCLCN5          KKQDGVVSTSIIYFTEHSPPLPPYTPPTLKLRNILDLSPFTVTDLTPMEIVVDIFRKLGL 778
mouseCLCN5          KKQDGVVSTSIIYFTEHSPPMPPYTPPTLKLRNILDLSPFTVTDLTPMEIVVDIFRKLGL 778
zebrafishCLCN5      QRQEGVVSASRIFFTEYTPPQPPNSPPPLKLRGIMDLSPFTVTDHTAMDIVVDIFRKLGL 773
                    ::*:****:* *:***::** ** :**.****.*:********* *.*:***********

humanCLCN5          RQCLVTHNGRLLGIITKKDVLKHIAQMANQDPDSILFN 816
mouseCLCN5          RQCLVTHNGRLLGIITKKDVLKHIAQMANQDPDSILFN 816
zebrafishCLCN5      RQCLVTHNGRLLGIITKKDILKHMAQMANRDPDSILFN 811
                    ******************:***:*****:********
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