

Multiple alignment including HEX 70a, HEX 70b, HEX 70c and HEX110 using ClustalW 1.83

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HEX70a MFIPSHQVVLVGLLAFS-LVGAEEYDTKTADKDFLLKQKKVYNLLYRVAQPALANITWYN
HEX70b MIV---IMKAGFLFLASLCLLVQAVPNKVADKTYVTRQKNIEYELFWHVDQPTVYHPELYQ
HEX70c MLSK--VVLVALAAICGAQGASYAGRHTADMDFLHKQKKIFDLLLLYVRQADLSDAEWYD
HEX110 M-----RYFIIILLALVALGVCAPNVKQRAADQDLLNKQDVIQLLQKISQP-IPNQELQN
      *           *       .       .       :.***       : :*: : :*: : * . : .       :

HEX70a EGQAWNIEANIDSYTNAAAVKEFLSIYKHGMPL-RGELFSLYYPQLLREMSALFKLFYHA
HEX70b KARTFNLVENLDNYNDKEAVNEFMQLLKHGMPL-RGQVFTMMNKEMRHQAVVLFRLLYSA
HEX70c VGRNYDMESNMDMYKDKNVVQKFLWVYKQGMFLSRNAIFTPLNSEQKYEVRLFFELLYNA
HEX110 LGASYDIESNSHQYKNPIIVMYIYAGAVKAGLVQPQGTTFSNSISQLRKEVSLLYRILLGA
      .   ::: * . *: : * : * *: . . * : : : * : : : *

HEX70a KDFDIFFKTALWAKNNINEAQYIISLYTAVITRPDTKFIQLPPLYEMCPYFFFNSEVLQK
HEX70b KTFDVFYNTAVWARFNVNEQMYLYALSVAVIHRPDTKLMKLPPMYEVMPHLYFNDEVMQK
HEX70c KDFQTFYKTAAWARLRMNSGMFTTAFSIAVLYRPDTKYMKFPAIYEIYPNYFFDSSVIEE
HEX110 KDYQTFLKTAAWARVHVNEGQFLKAFVAAVLTRQDTQGVIFPPVYEILPQHHLDSRVIQE
      * : : * : ** **: . : . : : : ** : * **: : :*. : **: * . : . : * : :

HEX70a ANHALIFGKLDTKTSG-KYKEYIIPANYSGWYLNHDYLNENKLIYFIEDIGLNTYYFFLR
HEX70b AYNIAMGDTADMKKTYNNIDYYLLAANYTGWYLTKHNVPEQRLNYFTEDVGLNHFYFMLN
HEX70c AQNLKMSRGSSVVTGMNNIETYIVNTNYSSKNMREYNDPEYKLDYFMEDVELNAYYYYMR
HEX110 AQNIAIQN----TQGKNNQQNILIPVNYS----ALLSHDEQQLSYFTQDIGLAAYYAQVN
      * : : : . : : : .*** : * : * * : * : * : * : .

HEX70a QAFPFWLPSKEYDLP-----DYRGEEYLYSHKLLLN
HEX70b HNYPPFMLSNSLNFP-----QIRGEFYFFLHKQVLN
HEX70c EMLPYWMSSSQYHMPK-----EIRGQLYYFLHKQLMT
HEX110 LAGYIQEQNQOQOQOQPLTQOQYQOQIVGKYLQOQAGQOQOQANIGRAQYLYLHQQLLA
      . . . . . ** * : * : :

HEX70a RYYLERLSNDLPHLEEFDWQKPFYPGYPTMTYSNGLPFPQRPISNFPYKYKYIREIM
HEX70b RYYLERLSNDMGEVSYVSLDHPIPTGYPTMRFRNGLAFPQRETGATVPLHMQKYVQMIH
HEX70c RYFLERMSNDLGKTAEFDNKPINSGFYSTIMYSNGVTFPQRNRFSSLPYKYKYLNVIN
HEX110 RYELNRLSNGLGPIKDIDYEN-VQSLYQPHLRGLNGLEFAGRPQNLQLQSQRNQLIQYVA
      ** *: *: *: : . . : : . : : ** : * . * . : : :

HEX70a NKESRISAAIDSGYILNNDGKWHNIYSEKGLNILGNIIEGNADSYNTEFYGSIDTLARKI
HEX70b DLHTRISTAIDLGYVVDYSGNHVKLYTKQGLNVLGNIVQGNQSVNVQLYGQLDLLVRKV
HEX70c ALEMRLMDAIDSGYLIDEYGKKIDIYTPEGLNMLGNVIEGSSDSINTKFYGYMDILARDI
HEX110 TLEKRLRDAIDSGNVITPQGVFLSLYQPGMNILGDLIEGTGRSVNPRYYGSLQAAARKL
      . * : *** * : : * . : * :*: *: *: *: * . * * . ** : .*:

HEX70a LGYNLEAASKYQIVPSALEIFSTSMKDPAFYRIYKRIIDYYHSYKMHQKPYNKDEIYPN
HEX70b LGFGYESNVKYQVVPALQMWSTSLRDPVFFSIYKTILDYYHKKYKENLPKYTTEELNFPG
HEX70c LGYNFDFQNKNNLIPSALQSYSTSMRDPAFYMLYQNILSYFLRYKKLQPPQYSQSELQMPG
HEX110 LGNAPEVENIWDYTPSSLELGEVAVHDPVFYQLYKKVMNLYQOYQOQSLPVYQYNDLILPG
      ** : : **: : . : *: *: : * : * . : : * .

HEX70a LKIESFTVDKLITYFEQFDTTINNGLLLEEQRNDDK--PFLIKIRQYRLNHNKPFNFHITI
HEX70b VSIESVTVDKLITYFDHFESMLNNGVSIQSHAKAKN---TMIKARQYRLNHNKPFTYHIVV
HEX70c VKFESVNIDKLYTYFDKCDTLINNAVAVENFKGG-M--YLRLKARRACMNYERFTYKINI
HEX110 VTIQNVDVSQVLTLFTDFYVDLDAVTGHQSQQQOQEEQTQSRVRAHLKRLDHQPYQYKIAV
      : : : . : : * * * . : : : . : : : : : : : : : : : : : : : : : :

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HEX70a NADKPMK-AAIRIFIGPKYDSH-HKLIIEIPEDLKIFYEIDNWMLDLNSGLNKITRNSLDC
 HEX70b NSDKNVK-GMVRIFLGPKYDEFHGHEVDLVHNYMN-FMQMDEFVVLNKSGSNTIERNSHES
 HEX70c HSDKETK-GMMRIFLGPAFDEIKHDMVYLQKYFYLFMEMDRFAVTLRPGSNSIERQSSSES
 HEX110 HSEQNVPGAVVRVFLGPKHDHQ-GRPISISKNHQFLVFDLQFIQNLHAGENTIIRNSQQA
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HEX70a SPVS-S-----
 HEX70b SPFDDS-----
 HEX70c SSMDDES-----
 HEX110 SSSNPLNVPYGPVIEQSLTYQDQQYQVVSVDQYQQLKEQGQISQVGGGIQQNVEVLPEN
 * . .

HEX70a -----
 HEX70b -----
 HEX70c -----
 HEX110 GNSWSQQQVQQAQQVQQQMQAAMAAVQQSQQRHQHAAQMIYGHQQSHHGLHINSSPSSVQ

HEX70a -----
 HEX70b -----
 HEX70c -----
 HEX110 QGVQGMNVPYGMQRGQSGGQTWSNSQVQGVAVPGSGIVASGQQHAGGWQSIYAQPQTVQD

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HEX70a  NITY
HEX70b  NVAL
HEX70c  MNV-
HEX110  DITQ

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