CLUSTAL 2.1 multiple sequence alignment

humanDNM2   MGNRGMEELIPLVNKLQDAFSSIGQSCHLDLPQIAVVGGQSAGKSSVLENFVGRDFLPRG 60
mouseDNM2   MGNRGMEELIPLVNKLQDAFSSIGQSCHLDLPQIAVVGGQSAGKSSVLENFVGRDFLPRG 60
zebrafishDNM2   MGNRGMEDLIPLINKLQDAFSSIGQSCNLELPQIAVVGGQSAGKSSVLENFVGRDFLPRG 60
                 *******:****:*************:*:*********************************

humanDNM2   SGIVTRRPLILQLIFSKTEHAEFLHCKSKKFTDFDEVRQEIEAETDRVTGTNKGISPVPI 120
mouseDNM2   SGIVTRRPLILQLIFSKTEYAEFLHCKSKKFTDFDEVRQEIEAETDRVTGTNKGISPVPI 120
zebrafishDNM2   SGIVTRRPLILQLVNSKAEYAEFLHCKGRKFVDFDEVRMEIEAETDRITGSNKGISAVPI 120
                 *************: **:*:*******.:**.****** ********:**:*****.***

humanDNM2   NLRVYSPHVLNLTLIDLPGITKVPVGDQPPDIEYQIKDMILQFISRESSLILAVTPANMD 180
mouseDNM2   NLRVYSPHVLNLTLIDLPGITKVPVGDQPPDIEYQIKDMILQFISRESSLILAVTPANMD 180
zebrafishDNM2   NLRVYSPNVLNLTLIDLPGMTKVAVGDQPQDIEYQIRDMLQFISKENCLILAVTPANMD 180
                 *******:***********:***.***** ******:**::****:*..***********

humanDNM2   LANSDALKLAKEVDPQGLRTIGVITKLDLMDEGTDARDVLENKLLPLRRGYIGVVNRSQK 240
mouseDNM2   LANSDALKLAKEVDPQGLRTIGVITKLDLMDEGTDARDVLENKLLPLRRGYIGVVNRSQK 240
zebrafishDNM2   LANSDALKISKEVDAQGLRTIGVITKLDLMDEGTDARDILENKLLPLRRGYIGVVNRSQK 240
                 ********:.****.*******************************:**************

humanDNM2   DIEGKKDIRAALAAERKFFLSHPAYRHMADRMGTPHLQKTLNQQLTNHIRESLPALRSKL 300
mouseDNM2   DIEGKKDIRAALAAERKFFLSHPAYRHMADRMGTPHLQKTLNQQLTNHIRESLPTLRSKL 300
zebrafishDNM2   DIDGRKDIRAALAAERKFFLSHPAYRHMAERMGTPYLQKTLNQQLTNHIRDTLPALRSKL 300
                 :*:**************************:*****:*****************::**:*****

humanDNM2   QSQLLSLEKEVEEYKNFRPDDPTRKTKALLQMVQQFGVDFEKRIEGSGDQVDTLELSGGA 360
mouseDNM2   QSQLLSLEKEVEEYKNFRPDDPTRKTKALLQMVQQFGVDFEKRIEGSGDQVDTLELSGGA 360
zebrafishDNM2   QSQLLSLEKEVEEYKNFKPDDPARKTKALLQMVQQFGVDFEKRIEGSGDQVDTLELSGGA 360
                 *****************:****:*************************************

humanDNM2   RINRIFHERFPFELVKMEFDEKDLRREISYAIKNIHGVRTGLFTPDMAFEAIVKKQIVKL 420
mouseDNM2   RINRIFHERFPFELVKMEFDEKDLRREISYAIKNIHGVRTGLFTPDLAFEAIVKKQVVKL 420
zebrafishDNM2   RINRIFHERFPFELVKMEFDEKELRREISYAIKNIHGVRTGLFTPDLAFEAIVKQQIVKL 420
                 **********************:*********************:*******:*:***

humanDNM2   KEPSLKCVDLVVSELATVIKKCAEKLSSYPRLREETERIVTTYIREREGRTKDQILLLID 480
mouseDNM2   KEPCLKCVDLVIQELISTVRQCTSKLSSYPRLREETERIVTTYIREREGRTKDQILLLID 480
zebrafishDNM2   KEPCLKCVDLVVSELATLIHKGTEKLNSYPRLREETERIVTTHVRERESKTKEQVMLLID 480
                 .****:.** : ::: :.**.*****************::****.:**:*:*:*****

humanDNM2   IEQSYINTNHEDFIGFANAQQRSTQLNKKRAIPNQGEILVIRRGWLTINNISLMKGGSKE 540
mouseDNM2   IEQSYINTNHEDFIGFANAQQRSTQLNKKRAIPNQGEILVIRRGWLTINNISLMKGGSKE 540
zebrafishDNM2   IELSYINTNHEDFIGFANAQQRSAAVTKKRAVPNQ----VIRRGWLTIN-ISIMKGGSKD 535
                 ** ******************: :.****:***   ********** **:*******:

humanDNM2   YWFVLTAESLSWYKDEEEKEKKYMLPLDNLKIRDVEKGFMSNKHVFAIFNTEQRNVYKDL 600
mouseDNM2   YWFVLTAESLSWYKDEEEKEKKYMLPLDNLKIRDVEKGFMSNKHVFAIFNTEQRNVYKDL 600
zebrafishDNM2   YWFVLTAESLSWYKDEEEKEKKFMLPLDNLKLRDVEKSFMSNKHTFGIFNTEQRNVYKDL 595
                 *********************:*********:*****.******.*.************

humanDNM2   RQIELACDSQEDVDSWKASFLRAGVYPEKDQAENEDGAQENTFSMDPQLERQVETIRNLV 660
mouseDNM2   RQIELACDSQEDVDSWKASFLRAGVYPEKDQAENEDGAQENTFSMDPQLERQVETIRNLV 660
zebrafishDNM2   RQIELACATQEDVDSWKASFLRAGVYPEKDQVENGD-VSADSLSMDPQLERQVETIRNLV 654
                 ******* :*************************.** * .. :::*****************

humanDNM2   DSYVAIINKSIRDLMPKTIMHLMINNTKAFIHHELLAYLYSSADQSSLMEESADQAQRRD 720

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mouseDNM2        DSYVAIINKSIRDLMPKTIMHLMINNTKAFIHHELLAYLYSSADQSSLMEESAEQAQRRD 720
zebrafishDNM2    DSYISIVNKSIRDLMPKTIMHLMINSAKEFIYSELLAYLYSSGDQNSLMEESAEQEQRRD 714
                 ***::*:******************.:* **: *********.**.*******:* ****


humanDNM2        DMLRMYHALKEALNIIGDISTSTVSTPVPPPVDDTWLQSASSHSPTPQRRPVS-SIHPPG 779
mouseDNM2        DMLRMYHALKEALNIIGDISTSTVSTPVPPPVDDTWLQNTSGHSPTPQRRPVS-SVHPPG 779
zebrafishDNM2    EMLRMYNALKEALKIIGDISTSTITTPVPAPVDDTWIHTDP--SPPSQRKPSGGSAPPPG 772
                 :*****:*******:*********::****.******::. .  **..**:* . *  ***


humanDNM2        RPPAVRGPTPGPPLIPVPVGAAASFSAPPIPSRPGPQSVFANSDLFPAPPQIPSRPVRIP 839
mouseDNM2        RPPAVRGPTPGPPLIPMPVGATSSFSAPPIPSRPGPQSVFANNDPFSAPPQIPSRPARIP 839
zebrafishDNM2    RPPAVRGPTPGAPAQP-PLNPSPAFGAPPVPSRP-----TTLEPAVAPPPQVPSRPARVP 826
                 ***********.*   * *:..:.:*.***:****     : .  ...***:****.*:*


humanDNM2        PGIPPGVPSRRPPAAPSRPTIIRPAEPSLLD 870
mouseDNM2        PGIPPGVPSRRAPAAPSRPTIIRPAEPSLLD 870
zebrafishDNM2    PTVPPGIP-RRPPAAPNRPTIIRPTEPSLLD 856
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