

Figure 2–figure supplement 1

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Homo sapiens: -MPALSR--WASLPGPSMREAAFMYSTAVAI FLVILVAALQGSAPRESP-LPYHIPLDPEGSELSWNVSYTQEAIFHQLLVRRLLKAGVLFGMSDRGEL
Mus musculus: MQAHLHQPCWSSLSPSPSVREAAASYGTAVAI FLVILVAALRGSPPESP-FPYHIPLDPEGILELSWNVSYVQEIIFHQLQVQGLRAGVLFGMSDRGEM
Danio rerio: -MRLINK-----DLRLQDVTLMYLTVLATVVVLLVASYPAPAGQSRPTLAYHIPLDPSSGQLELSWNI SYPKQEVLLLEVKKELHHGII LGMSDRGEP
Danio rerio mutant: -MRLINK-----DLRLQDVTLMYLTVLATVVVLLVASYPAPAGQSRPTLAYHIPLDPSSGQLELSWNI SYPKQEVLLLEVKKELHHGII LGMSDRGEP

Homo sapiens: ENADLVVLWTDGDTAYFADAWSDDKGOIHLDPQDDYQLLQVQRTPEGLTLLFKRPFGTCDPKDYLI EDGTVHLVYGILEEPFRSL EAINSGSGLQMGLQRY
Mus musculus: ENADLIMLWTDGDRAYFADAWSDDKGOIHLDSQQDYQLLQVQRTDGLSLLFKRPFVTCDDPKDYVI EDDTVHLVYGILEEPFQSL EAINSGSGLHTGLQRY
Danio rerio: TNADLVILWDDGHKSYPGDAWSDSEGRVTLDTQQDYQLLETHQSTEGFFLLFKRSFSTCDPHDYII EEGTVHII YTMLEHPILSLH ELNII SRLQPGVQRY
Danio rerio mutant: TNADLVILWDDGHKSYPGDAWSDSEGRVTLDTQQDYQLLETHQSTEGFFLLFKRSFSTCDPHDYII EEGTVHII YTMLEHPILSFVA-----

Homo sapiens: QLLKPNIPPELP SDACTMEVQAPNIQIPSQETTYWCYIKELPKGFSRHHII KYEPIVTKGNEALVHHMEVFQCAPEMDSVPHFSGPCDSKMKPDRNLNYC
Mus musculus: QLLKSEVPTSPMPEDVQTMDIRAPDILIPDNETTYWCYITELPPRFPRHHII MYEAI VTEGNEALVHHMEVFQCAAESEDFPQFNGPCDSKMKPDRNLNYC
Danio rerio: LLLRPDTPSPHLPKDVRTL EVLAPDVI IPTQETTYWCYIYQLPPNLPKNHIVMYESVITPGNEAIVHHIEVFECSPQMDIVPQYSGSCDSKMKPRNLNYC
Danio rerio mutant: LLLRPDTPSPHLPKDVRTL EVLAPDVI IPTQETTYWCYIYQLPPNLPKNHIVMYESVITPGNEAIVHHIEVFECSPQMDIVPQYSGSCDSKMKPRNLNYC

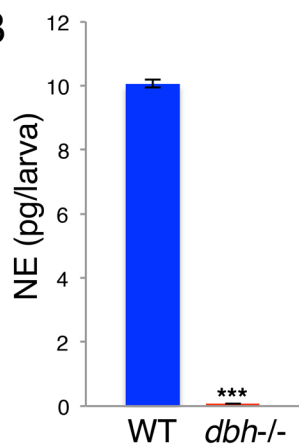
Homo sapiens: RHVLA AAWALGAKAFYYP EEEAGLAFGGPGSSRYLRLEVHYHNP LVI EGRNDSGIRLYYTAKLRRFNAGIMELGLVYTPVMAIPPRETAFILTGCTDKCT
Mus musculus: RHVLA AAWALGAKAFYYP KEAGVPFGGPGSSPFLRLEVHYHNP RKIQGRQDSSGIRLHYTATLRRYDAGIMELGLVYTPVMAIPPRETAFVLTGCTDKCT
Danio rerio: RHVLA AAWAMGAEPFYYPADAGLPMGGEGSSRFLRLEVHYHNP LLLSGRRDSSGIRLWYSPSLRRFDAGIMELGLVYTPVMAIPPRQRSFQLTGCTAKCT
Danio rerio mutant: RHVLA AAWAMGAEPFYYPADAGLPMGGEGSSRFLRLEVHYHNP LLLSGRRDSSGIRLWYSPSLRRFDAGIMELGLVYTPVMAIPPRQRSFQLTGCTAKCT

Homo sapiens: QLALPPSGI IIFASQLHHTLGRKVVTVLVRDGREWEIVNODNHYSHPHQEI RMLKKVVS VHPGDVLITSTCTYNTEDRELATVGGFGILEEMCVNYVHHY
Mus musculus: QMALQDSGI IIFASQLHHTLGRKVVTVLARDGQERKVVNRDNHYSHPHQEI RMLKKVVT VYPGDVLITSTCTYNTENKTLATVGGFGILEEMCVNYVHHY
Danio rerio: QTALPVGGI IIFASQLHHTLAGLGVRTVLVRGGQEVVVQEDKHFS THYQIIRVLQKMTVLPGDALLTTCRFNTEDRSKVTVGGFGIMEEMCVNYVHHY
Danio rerio mutant: QTALPVGGI IIFASQLHHTLAGLGVRTVLVRGGQEVVVQEDKHFS THYQIIRVLQKMTVLPGDALLTTCRFNTEDRSKVTVGGFGIMEEMCVNYVHHY

Homo sapiens: PQTQLELCKSAVDAGFLQKYFHLINRFNNEVDCTCPQASVSQQFTSVPWNSFNRDVLKALYSFAPISMHCNKSSAVRFQGEWNLOPLPKVIISTLEETPQ
Mus musculus: PQTQLELCKSAVDAGFLQKYFHMVNRFSSEEVCTCPQASVPPQFSSVPWNSFNRDMLKALYDYAPISMHCNKTSAVRFPGEWNLOPLPKITSTLEETPQ
Danio rerio: PRTQLELCKSHVDTDYLOKYSFLINRFQGRSCSCPQTSVEEQFSSVSWDSFSGEVLNSLYVTAPFSMHCNQSTAQLFPGDWEKQEIIPVVT AQLQRAPY
Danio rerio mutant: PRTQLELCKSHVDTDYLOKYSFLINRFQGRSCSCPQTSVEEQFSSVSWDSFSGEVLNSLYVTAPFSMHCNQSTAQLFPGDWEKQEIIPVVT AQLQRAPY

Homo sapiens: CPTSQGRSPAGPTV-VSIGGGKG
Mus musculus: CPIRQTQSPANPTVPITTEADAE
Danio rerio: CEINRRVASNNDSPTTEVRADSSG
Danio rerio mutant: -----

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