#Ebf/COE

>Bs\_Ebf

MAMIVPDFGSDMTSALRDQPMLPITGWMQTNLVEPIHMPQPGILRIHRAEFSIQPPKNLRKSNFFNFSLLFYDNRGLPARATKTEFKNFVEEASSEHCSGTEKANNGVHYEITFILSNGVSVLQDIYVRLVDAANRERIICYEGQDKNPEMRRVLLTHEIMCSRCCDHKSCGNRNETPSDPTFDKGQGPYDIKFFLKCNQNCLKNAGNPRDMRRFAVAISTDVDMKFPLAYSETMFVHNNSKHGRRAKTDLENGKRSSGPCITSVCPSEGWVTGGTTVIIVGNNFTRDMQVAFDTTIVFTEFVSEHALKIQSPGYHLTGPVEVTITIKNKQYCKNQPGRFTYTALNEPSIEYGFQRLMKMIPRHQADPLQISKEMILTRAAELLEAFSVRPYSQLQSAPPPPLQNSFTSTSSTMMASAMGGYNVPNQYAPFAAQDRMDSNGYSPHAGPQHSSNISLSSIGAVTNAPPYGSPVNGYVGPPTFTNMTNSSANMFCNAGLLPQSPNPAMNCLSGSGTTPGIFSFSPANMISAVKQKSAFAPVIRAHNTPSPNHSGVSETTIHEINGYT\*

>Ci\_COE
MATMAGPQLSGPAVRGWMQTTLVEPMPNGNVGLHRAHFEKQPPNNLRKSNFFHFVLALYDRQGQPVEIERSAFVGFVENETEIAGEKTNNGIQYRLQLLYHSGVRTEQDVFVRLIDSATKQSITYEGQDKNPEMRRVLLTHEIMCSRCCDKKSCGNRNETPSDPVVIDRYFLKFFLKCNQNCLKNAGNPRDMRRFQVVVSTTVHVDGHVLAVSDNMFVHNNSKHGRRARRVDPSEASPTIKAINPAEGWTTGGATVVIVGENFFDGLQVVFGSMVVWSELITQHAIRVQTPPRHLPGVVEVTLSYKNKQFCSGAPGRFVYTALNEPTLDYGFQRLLKTVPRHPGDPERLPKEIILKRAADVMEAVISRQYAPPSQMPPSAGITPPAPHLAAAPCAPPGSFVPQSASAAMAVAMNGYAAAAVSSQFGGTPDRFDTGSDSGYSRGNSVSPRNGYSPQTTPHSLNSGSIGSMVGLTTVGVVPAPAPYHCAPSFNSYSSASGPTFTNMNNTSPGLFSGSGIIPPSPHNGMNPLPSSGTTPGIFSFSPANMISAAKQKSAFAPVH
RPHNSPSPLAPSNGNIALNGYS
>Cs\_COE
NMDGPQLPGSAVRGWMQTSLIEPMASGNVGLHRAHFEKQPPNNLRKSNFFHFVLALYDRQGQPVEIERSAFVGFIENETEIAGENTNNGIQYRLQLLYQNGLRTEQDVYVRLIDSATKQSITYEGQDKNPEMRRVLLTHEIMCSRCCDKKSCGNRNETPSDPVVIDRYFLKFFLKCNQNCLKNAGNPRDMRRFQVVVSTTVHVDGHVLAVSDNMFVHNNSKHGRRARRVDPSEASPMIKAINPAEGWTTGGATVVIVGDNFFDGLQVVFGSMVVWSELITQHAIRVQTPPRHLPGVVEVTLSYKNKQFCSGAPGRFVYTALNEPTLDYGFQRLLKTIPRHPGDPERLPKEIILKRAADVMEAVISRQYASPSQMHPSSGITPPTPHLGATPCPPSGSFVPQSASAAMAVAMNGYAAAAVSSQFVGNPDRFDNGSDSGYSRGNSVSPRNGYSPQTTPHSLNSGSIGSMVGLTTVGAVPAPYHGPPSFNSYSTSGPTFTNMNNSSPGIFPGSSIIPPHTHNGMNGLPSSGTTPGIFSFSPASMISAAKQKSAFAPVHRPHNSPSPMAPPNSSLVENSES

>M0\_COE

MSNLPSQQLAPLRGWVQTGLVDTMPSAGLHRAHFEKQPPGNLRKSNFFHFVLALYDRQGQPVEVERTAFIDFVEGDREAVTATGEKTHNGIHYRLQLLYHNGVRTEQDLFVRLIDSVTKQAISYEGQDKNPEMRRVLLTHEIMCSRCCEKKSCGNRNETPSDPVVIDRYFLKFFLKCNQNCLKNAGNPRDMRRFQVVISTTVHVDGHVLAVSDNMFVHNNSKHGRRARRLEPTDATPVIKALSPSEGWTTGGATVIIVGDNFFDGLQVVFGSMIVWSELVTQHAIRVQTPPRHVPGVVEVTLSYKNKQFCKGSPGRFVYTALNEPTIDYGFQRLLKAIPRHPGDPERLPKEIVLKRAADVMEAVMTRPYNQVPAPPPAPMHNTFNGSSPAMMAAGVNTYNHSVQMAPSQYTITTPDRLDSANGSDSGKIIIDTTLGGYSRGSVSPKTGYSPQATPHSTANVGLSAVSGNAPPYCAAMNGYSNPTFTNMTNSSSNMFAGTGLFPTSPNGGMNALPTCGTTPGIFSFSPANMISAVKQKSAFAPVVRNHNSPSPGPAGAVDQIPNVSVMPSGLTEINTYT

>Pm\_COE

TMPGQQLVPAVRGWMQTSLVESSSSVSLHRAHFEKQPPNNLRKSNFFHFVLALYDRQGQPVEVERSAFAGFVENETEVAGEKTNNGIHYRLQLLYHNGIRTEQDVFVRLIDSATKQSIVYEGQDKNPEMRRVLLTHEIMCSRCCDKKSCGNRNETPSDPVVIDRYFLKFFLKCNQNCLKNAGNPRDMRRFQVVVSTTVHVDGHVLAVSDNMFVHNNSKHGRRARRVDPAEATPAIKAINPSEGWTTGGATVIIVGDNFFDGLQVIFGSMVVWSELITQHAIRVQTPPRHLPGVVEVTLSYKNKQFCGAAPGRFVYTALNEPTLDYGFQRLLKTVPRHPGDPERLPKEIILKRAADLMEAFQYKYNPHGQMGSTGAVPPPPHLAPPPTGNHGSFVPQASVAMAAAAMNGYAAAAVSSGFVPATERFDTTGSDSGYSRGNSVSPRNGYSPQGTPNSVTSGSQGVMSALTTVAAAPAPSAYNSTQPFNSYTCAAPTFTNMTNPSTALFSGSSILPSSPPNPMNPLSSSTTPGIFSFSPANMISAAKQKSAFAPVIRPHNSPSPLASSNGNLGSTIMHALNGYS\*

>Hr\_COE

MSNLSSQQLAPVRGWIQTSLVDALPSVGLHRAHFEKQPPSNLRKSNFFHFVLALYDRQGQPVEIERTAFIDFVENETAICYEGQDKNPEMRRVLLTHEIMCSRCCEKKSCGNRNETPSDPVIIDRYFLKFFLKCNQNCLKNAGNPRDMRRFQVVVCTTVQVDGHVLAVSDNMFVHNNSKHGRRAKRIEPAEATPSIKAMSPSEGWTTGGATVIIVGDNFFDGIQVVFGSMIVWSELITQHAIRVQTPPRHLPGVVEVTLSYKNKQFCKGTPGRFVYTALNEPTIDYGFQRLLKCIPRHPGDPERLPKEIVLKRAADVMEAFMSRPYNQVTPAPSAPLQGSYNGSTSAMAAASGYHTGVPVHNQYSISTPDRLDSVNGSDSGKNRGLSYSRGNSVSPKTGYSPQSTTHNVLNTGLTSIGAVTNVSHYGTTMNAYSCPPTFTNMTNTASNMFCNTGLLPPSPNSAMNGLPAAGPTPGIFSFSPANMISAVKQKSAFAPVIRAHNSPSSSSGTPGPGILQGTYYKENIFFTFPCVICKNLFVELDIAKIPDDFRDKIRLGICLQRVPLLYISVTI\*

>Mm\_COE1
MFGIQESIQRSGSSMKEEPLGSGMNAVRTWMQGAGVLDANTAAQSGVGLARAHFEKQPPSNLRKSNFFHFVLALYDRQGQPVEIERTAFVGFVEKEKEANSEKTNNGIHYRLQLLYSNGIRTEQDFYVRLIDSMTKQAIVYEGQDKNPEMCRVLLTHEIMCSRCCDKKSCGNRNETPSDPVIIDRFFLKFFLKCNQNCLKNAGNPRDMRRFQVVVSTTVNVDGHVLAVSDNMFVHNNSKHGRRARRLDPSEGTPSYLEHAATPCIKAISPSEGWTTGGATVIIIGDNFFDGLQVIFGTMLVWSELITPHAIRVQTPPRHIPGVVEVTLSYKSKQFCKGTPGRFIYTALNEPTIDYGFQRLQKVIPRHPGDPERLPKEVILKRAADLVEALYGMPHNNQEIILKRAADIAEALYSVPRNHNQLPALANTSVHAGMMGVNSFSGQLAVNVSEASQATNQGFTRNSSSVSPHGYVPSTTPQQTNYNSVTTSMNGYGSAAMSNLGGSPTFLNGSAANSPYAIVPSSPTMASSTSLPSNCSSSSGIFSFSPANMVSAVKQKSAFA
PVVRPQTSPPPTCTSTNGNSLQAISGMIVPPM

>Mm\_COE2
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GNGFRAMTGLVVPPM
>Mm\_COE3
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>Mm\_COE4
MFPAQDALPRGGLHLKEEPLLPSSLGSVRSWMQSAGILDSNTAAQSGVGLARAHFEKQPPSNLRKSNFFHFVLAMYDRQGQPVEVERTAFIDFVEKDREPGTEKTNNGIHYRLRLVYNNGLRTEQDLYVRLIDSMSKQAIIYEGQDKNPEMCRVLLTHEIMCSRCCDRKSCGNRNETPSDPVIIDRFFLKFFLKCNQNCLKNAGNPRDMRRFQVVVSTTVSVDGHVLAVSDNMFVHNNSKHGRRARRLDPSEAATPCIKAISPGEGWTTGGATVIIIGDNFFDGLQVVFGNVLLWSELITPHAIRVQTPPRHIPGVVEVTLSYKSKQFCKGAPGRFVYTALNEPTIDYGFQRLQKVIPRHPGDPERLPKEVLLKRAADLAEALYGVPSSNQELLLKRAADVAEALYSAPRAPAPLGPLAPSHPHPAVVGINAFSSPLAIAVGDTTPEPGYARSCGSASPRFAPSPGSQQSSYGSGLGAGLGSYGAPGVTGLGVPGSPSFLNGSTATSPFAIMPSSPPLAAASSMSLPAAAPTTSVFSFSPVNMICAVKQRSAFAPVLRPP
SSPSQACPRAHREGLPDQPFEDTDKFHSAARGLQGLAYS
>Bf\_Coe
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FSPANMISAVKQKSAFAPVVRPQSSPSPAGASSNGTGLQGGWTPTIPSAVC
>Nv\_COE
MSFDMQEQDENSMKNDRPVVGCLQHRVLEPQVTSTASGLLDRCHFEKQPPANLRKSNFFHFVLAFFDHNGQAVEIERASFIDFIEHLPEDKNVRNGALYRVLLLYSNGIRTEQDIFVRLIDAATKQIVPYEGQDKNPEMRRILLTHEVMCSRCCEKKSCGNKNETPSDPVVVDRYCLKFFMKCNQNCLKNAGNPKDMRRFQVHVSTSVDPMYDMIACSDNMFVHNNSKHGRRTRSRADGNEQDTSADDPCIKAICPNEGWTIGGSNVILIGDNFFDGLQVVFGSFIVWSEFITPHALRVQAPPSPMPGVVKVYLMHKEKQYCKYAPAKFGYTALVEPTIDYGFQRLSKLIPRHPGDPERIPKEIVLKRAADLAETLYQMPRTPTQVHPSQYASTGLATPKSPALVGGQHYVTLLPDSMTNVFTQSITPDNQPIAYSSHNDNASDQTDMNNNVVQSSNSSRLTSNATLSGVTNMSNHDSHHNGVMASSDEGLSAIATVSNSCYGNGSPALSCMAVPASPGYFTGAFIPQSPSLPPTPNSVPPSSNNSIFSFPPNMIQAVKQ
KSAFNPVSRGPESTAHPRSPAVVQGVMTSTYNGPFAVPV

>Af\_COE
MRQILKEEPVPRAWPQPALADNGTVGVGRAHFEKQPPSNLRKSNFFHFVIALYDRHGQPIEIERTSFMGVEKDQESEGQKTNNGIQYSLHLLYSNGSYECNRDIFYRCIKNVSRQAIMYEGQDKNPEMCRVLLTHEVMCSRCCDKKSCGNRNETPSDPVIIDRFFLKFFLKCNQNCLKNAGNPRDMRRFQVVISTQVGVEGPLLAVSDNMFVHNNSKHGRRTKRLDPSDPGEYNSLYTPVPLQTPCIKAISPNEGWTSGGSTVIIIGENFFDGLQVVFGSMLVWSELITPNAIRVQTPPRQIPGVVEVTLSYKTKQFCKGAPGRFVYVSLNEPTIDYGFQRLQKLIPRHPGDPEKLPKEIILKRAADLAEALYSMPRSGNAGITGAPRSPGSGHPPAPPTSSSATAFNSYTGQLAVTVQENGSAAKWTDDGSSVTTGAGAGGGGGGGGSVGGSVGGSADAYRQSSSASPRGVVTGGGYCGSSASTPHSHSTNGSYSVANPYTGSPTLYTSPHEQYGIFYTSGDGSAFAPVVRPPTTSVPPHWSTQHHLATAAQ

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#MESP

> Bs\_MESP

MMRKLRVYDGRPMPYVRNGPILQRRQFDNYYRVFPSNREIASLREKNRVQHLTAQLLTLKSYIPESWFPEGCERRNASKIVILRAAISYIRYLTDLLNKAGVSSGIAATGKENARDPELQEVTEYIDEVYEKQCKPRCESRPPAVAAFR\*

>Ci\_MESP
MELSMHQDPIDDWLMELLRENECGTDSNDFQEQQLVKKTDVFSTTAQQHAQLESSENIYPSIASQVRPFTRNNANIYHSQEQCPKFPNTHRHAFGKQRNERNPLTNVCLNKQHTNQKPDSCVPKNRYYRTLKLKSKRQTASERERLRMQKITEQLMTLKHHLPDHYFRNDNPSKVQILRKSISYIHTLSKLLQEGKT

>Cs\_MESP
MEHILEPIEDSIDQRLDELLQENICEGPTFNTGNAPRRKEMQIEYRCQAQQPSNKNDQPRQRFYNELNQTWLLSNNSLPVLEQHSVTVCKRKTEEINRRPLGAVCVNTKPMSQVKHVQRTAKRISGNEYCNRRSKRQIASERERLRMQQISRELMNLKRHLPEYLFCDKNPSKIQILRNSITYIKNLSSFLYVDSKTQNLSL

>Bf\_MESP
MAYATTDFFENDDGLSSLLRADTPVTSADRDGSDSSPSFEDSGLSSGGSPESSALLLNGGSRRRRRRRKPRLTGLSKQRQAANERERVRMQNLTAALGVLREHIPPPVAPKDKRLSKIETLKLAIGYIDYLRRVLQESTENAASLLPPSLESLAKEDAEFDIDGSFEIKGQDKEQRRRRKDRTARHRLTTPHFNAKKSQQTKPAPRPTAAKVRPRPSTVSSCSPKSGGSNDGMSVKLET

>Moc\_ME

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>Phm\_MESP

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>Hr\_MESP

MQRSFPEDNSYQIYQYRCQSEWNRQVHPSLLTPQCDVENNPFSFFNDTSLYSTGQQENRAGTQIMQEIQYKNERTSNTGPLRTRKSNFTKAKPYAIGLASRNGRSERRKTASDREKLRMQGVTRQLNVLKDHLPSSWLPDKAKTSKINILRIAISYINYLSEQLSADNADNVHHDAHENTCKIDFELQDIIDYIDDSYCGNLEQGEQRTKLSLFR\*

>Dr\_Me-a
MDASTFSLQLQNCSFFLPDSQNQSFAVSDAGYYSATGSLSPTSSIDSCSFSPPAYSLLPQIFPKSIQKTDVQPPKRTGRPKSKFPGVKRQTASEREKLRMRDLTKALHHLRTFLPASVAPVGKTLTKIETLRLAIQYISCLSDQLGCGEDVEICEAQDEVISTSASVFDNFSSASSASQSLPAQQFMSMSCYQTQNPVQGDFHSFPAQDVWFSQRHNFFHGQC

>Dr\_Me-b
MQTSSKNRWSSSSSESEFSSISSPETTSPDQSFSPPHQTKPPCSKLVKSSNIMRKKRRLRLKNPSERRQNASEKEKLRMRDLTKALHHLRSFLPASVAPVGQTLTKIETLRLTIQYISFLSSQLGLSEEELSYRRQENSSGCSLSSFECSSVNGGFVGTEQGYALCDGQYEDCSGYGGQYRERYGGLTQQHSTEQNGLVSIDGFIQSQQCGQMTQTPYQVYGKNFGYHLVPQTYWR

>MmMesP1
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>MmMesP2
MAQSSPPQSLQGLVPLGLLPGLGLGSAIGLHVSGLVLRFVRFLPFYATRRPSQPAGPARSTRTTQATAPRRTRPAPAGGQRQSASEREKLRMRTLARALQELRRFLPPSVAPAGQSLTKIETLRLAIRYIGHLSALLGLSEDSLRRRRRRSADAAFSHRCPQCPDGGSPSQAQMLGPSLGSAMSSGVSWGCPPACPGPLISPENLGNRISNVDPRVTPPYCPQIQSPLHQSLERAADSSPWAPPQACPGMQMSPEPRNKTGHWTQSTEPAELTKVYQSLSVSPEPRLSLGSPLLLPRPSCQRLQPQPQPQPQWGCWGHDAEVLSTSEDQGSSPALQLPVASPTPSSGLQLSGCPELWQEDLEGPPLNIFY

>DrMeso
MAQIDVDVFTAKVLSHWDWSREDRSFGDSASSPESESFDSACSSPDARSSPTAGCEHAEQQKPKVKMSMRRRMKASEREKLRMRSLAEALHQLRDYLPPGYSRRGQPLTKIQTLKYTIQYIKELSGILEQQ

>Mm\_pMg1
MDNLGETFLSLEDGLDSSDTAGLLASWDWKSRARPLELVQESPTQSLSPAPSLESYSEVALPCGHSGASTGGSDGYGSHEAAGLVELDYSMLAFQPPYLHTAGGLKGQKGSKVKMSVQRRRKASEREKLRMRTLADALHTLRNYLPPVYSQRGQPLTKIQTLKYTIKYIGELTDLLNSSGREPRPQSV

>Dm\_sg
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>Ci\_E12
MFSSKSSSISGIENSNHGNVYSSKSYAESTGWSAPTDPPRESYSSPTNYPNTVTNTAARSPNVVVGQPGGSGKPPMTPGPYGYPREQSVMLNLHRPNSSSPNSSNNNNNPYPNKRRQPEVHAPGKRRRGPYSPTQSEDYHSYQAPITPGDPMHGSGDWSSPGYTGTMGQYGQCHPAERMQDYRPDSSPHMGSCQQTGMHGSYPNLTSPYGINEIYQNNSGFQASPAATPSPMLGNNQWRQHPVESFPNQHNTPSQSLDDVVAVLGDHAGIHNEMHRQQVGYPPHTPITWGSQNGSDVAGYSRMAHSNTPLISPTNSTNMSGNTANYPLSQPPASHQTRQIFSPTGTSNVQPASINSDNTSNSGASSIDDNILNIKKEKDSADLKVKTNSRAAKTKARSASSKSMEDKVDDDDESKEERDLRRSSIGSKDNDEDLTAEEREKREKDRRMANNARERLRVRDINEAFKELGHMVQIHMNQDKPQTKLTILHHAVQVILGLEHEVRERNLNPKAACLKRRDEEKAATSSMQQQPAVDEGRLSNTIHAQPSKRSRSGSGVTAPVAPGYPGASTHPNYHQNPHNQGDPNSIPQHPYGIKHYGPHPGEMMTSESMSSFNEHGYVSPDVMGMDPGVQLDTPFSTGHP

>Hs\_ITF-1
MNQPQRMAPVGTDKELSDLLDFSMMFPLPVTNGKGRPASLAGAQFGGSGLEDRPSSGSWGSGDQSSSSFDSRTFSEGTHFTESHSSLSSSTFLGPGLGGKSGERGAYASFGRDAGVGGLTQAGFLSGELALNSPGPLSPSGMKGTSQYYPSYSGSSRRRAADGSLDTQPKKVRKVPPGLPSSVYPPSSGEDYGRDATAYPSAKTPSSTYAPFYVADGSLHPSAELWSPPGQAGFGPMLGGGSSPLPLPPGSGPVGSSGSSSTFGGLHQHERMGYQLHGAEVNGGLPSASSFSSAPGATYGGVSSHTPPVSGADSLLGSRGTTAGSSGDALGKALASIYSPDHSSNNFSSSPSTPVGSPQGLAGTSQWPRAGAPGALSPSYDGGLHGLQSKIEDHLDEAIHVLRSHAVGTAGDMHTLLPGHGALASGFTGPMSLGGRHAGLVGGSHPEDGLAGSTSLMHNHAALPSQPGTLPDLSRPPDSYSGLGRAGATAAASEIKREEKEDEENTSAADHSEEEKKELKAPRARTSPDEDEDDLLPPEQKAEREKERRVANNARERLRVRDINEAFKELGRMCQLHLNSEKPQTKLLILHQAVSVILNLEQQVRERNLNPKAACLKRREEEKVSGVVGDPQMVLSAPHPGLSEAHNPAGHM

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#MRF

>BsMRF
MPSLSSTDGSATRVMNSSSMDQQQDIIVSKDVFVNSPVDSDSDDSFRQSPNESRRFGDTFIHPDSGIDHDFNLDDFAVNSTPLDTLCRPGDPDFEGFDLSSDQQDYVFSPSTILDLKLTDGIEDWKPGDVFENITTEVLDNNEESKSDIKAEYDDSEFLDLTDVDTLPFDLGNTARDTSLSQNNIFVNAPVSVRSKRKGVIQDAGTVLNLSLLDRGFDQENCLQTRAVNNYIPFVANGIHGNIGHLGYSQGNVLAQNQQLNFLSNIPQQQVQVEGLSFNTNDLNSLAELLMTPKEQTSVKPSTRLAPCSTLLPGSKIMTTSPSKESCVQSNCDMQHARDEFMDHEESSSNSDGGEPNFFNHSLNYEIINNAGVNFQRSDVIDSNDHSTSSHHFSTTIIPDSSGIGATVSSTTDILSQSCEAIQGEFSVGYGSHACHPNGQQCLVWACKACKRKSGPHDRRRAATLRERRRLKRVNEAYETLKRCSCSNPNQRLPKVEILRNAINYIENLQRMLYESNESAEKWPENNSQSSIQQQGVTDDISSPKQLCSETTITEHHALSEIKLENDFDSISAASSSGEQVLNLSTSTSFARTSNYNTDLQSMNLSSTST

>Mo\_MRF

MYFEIPNFVMASQLDSVVNEKGNDVMLSYAPGSPTNESNSGSEFEPTADAKNELGLIELPAITNENQLIQTAFASSDVVDNSKCDIFDPTMLINSSGQDVKLEYDPSEFLDLNDVDAFEFSLENSIADASRQNDNVFQTNDKETHLQPISNMLPYLQTTETGQSKSPDINTIADLLNCNPERRQQPNTRLAPCASLLPDPKVSLGPNNFATSSIPQLSSSDVTQCIPTMNYDQMTPTFVT

DHSSNLLMTSNMASYTMNATPVQDMEVTDSNHTSHPNGHQCLVWACKACKRKTGPHDRRRAATLRERRRLKRVNEAYETLKRCACTNPNQRLPKVEILRNAISYIDNLQQLLYGDKVTTTPSKDDTKLDESSLASNVKTPPRSGLSCSPGHVGLLDKSLSPESIFQMNGQVVTSVSQGGGRL

>Ci\_MRF
MTCISLEELDLSSIFSNSSSYFTSYATNPIMTSQKRMPSRLKRASSDVLLSDTAVSPESREVSGVLSELDELKRCVEGNYIGIDAEKSDISILEELSNMASGCSDSDVAYSSPDSRYGSTGNLTSKTSFGSAMSFRDAGIGGPIPRGSSLRNPDIRGKRNSIEVKQENEQNPIEFVLESFLNSNETSKPRMPESRVEDIQFTGPPISSIEPTITFASTEENHNDTVKAMMQYLTETNQMCQESSVSEQIIFSDLNSVSASDSLPSVEELLQIPNEKSRSFKPDNTAKHQPTLHRPKHFHNQVANQQHVPILNPELQSFESFSPVMNNGLITPTNTFTSNRMMELSPLSDLHSLSQDEDMDTKMSHYHHTSHPNGHQCLVWACKACKRKTGPHDRRRAATLRERRRLKRVNQAYDALKRCACANPNQRLPKVEILRNAITYIYNLQHMLYGDQQSDAKSPETKPETTLSLGEIFVSKTEIDSPFYQSDDVRLTSSRTSSPVESLLESTSSSFIMSDLGDENIQPQVL

>Cs\_MRF

MTCISLEELDLSSIFSNSNNYYSGYATSNIMTTQKRTPPRLKRASSDVLLSDTAVSPNCRGVSGVLSELEELKRCVEGNYIGIDAGKSDISILEELSHLATNCTDSDAAYSPGSRDSTLSNRASFGSEMNFQNPGIGGPMSRGNSPQNYDLRCKRMDVKQENEANTIEFMLESFLGSNETSKQKQDHRTEDTQSTPISSIEPTITFATNDETHTVKAMMQYLSDTNQMCQDNSVSEQIIF

SDLNSVSASETSLPSVEELLQIPNEKPSSFKTGNTAKTQSMHSRPKHFNGQMLNQTQIPINNVMSPEVQSYESYTPVLSSGMLSSNTFSSNRMMELSPLSDLQSLSQDDEMDSKMSHYHHTSHPNGHQCLVWACKACKRKTGPHDRRRAATLRERRRLKRVNQAYDSLKRCACANPNQRLPKVEILRNAITYIYNLQRMLYGEQNSEAKTSVSKPEATLTLGETFISKTECESPFFETDD

VRMTSSRTPSPVSSLIESGPSFVISELGEENIEPKQDRLSASLFPNDVTTPTSMVDDVITITEESTTTPNTDEENTPVANRLNSDTKGASSLVCLSSIVERID

>Hr\_AMD1
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>Hr\_anis

MPSIMMSSKMADNIMTSSPEGQSHIISNDVFITSPMHSVEGERSTPDIRDLSDNFINPPEHIGGIGNGGFNLNEITTSSAIENLCFITSNSTSSYQNATLNCNSSEQLIFSPSGIFETNNTTGDVKLSNSELTLDDDVTNTNDVGEWKTCDIFDTSVNLSTKSQQINSQNEIKLNYDPTDYLDLNDVDAFEFEFENSIADASLRNNNLTFNTSQIQTQSTNQNEKHHILNLSILEPTFSD

DGDKDGYMHANNSVLPFNPRPELQILGQDFNGHLNLLSSPEQLLESTPNQMDLTTDANVILNPHDLSSLAEFLAVSPDRNAIIRNSLTPGRLAPCSTLLPGSKIATLKSMDKPYIPVHDLTITTTNEMVHTVTPGQSIISNAYSNSVDHLDISNAIDLTNQNAYPFQIGQSNSNIITNTTNTGFDITNAKIFSISDTLNDSGFASSNTDASDATYSDHTHQGSHTSHPNGHQCLVWACKA

CKRKTGPHDRRRAATLRERRRLKRVNEAYENLKRCACSNPNQRLPKVEILRNAITYIENLQRILYEASENGENEYRSKNATHASAIKFMTSSFEDDDVKPFAKRIRLDNTSSVVKRGSHVKPVRNESLTSGMMSQNTSLITQSMTSASIATLITDSDVSSLAMNKETTCDNSMMIDLKAELGQLIKTSGNHDAVLITDISGRYVKPQ\*

>Pm\_Anis

MFSNGSVCLQSLMATPEMTSQLRFVTQSPRRKRSSHDVLLSESISEREVSESRDAKTKEEEQKRMDEIAMKSDLSILEELTNFTSSTTHSDVMFTSPEPVFPTQTDQYVVSPQLGPVQGLKTQGQVTLEKPIKKEQIDNSANFELALENLLESDYVIASEPKLHYPVVTSFDEEAAAPPISSIEPTLTFGNCEENEDAIKAMMQYFTEGTPAKRPHLSIDTALPSVEELLSLSSSSEKSRDFKPSHKVPNPVTSAVFPSNKIDMRTSAFTNSEQLIFKSDAMTNFSEDALDFDAHSNTERVHFAKIPGLQISNSLSGSDGMFDQGDEENSLSSFHHTSHPNGHQCLAWACKACKRKSGPHDRRRAATLRERRRLKRVNQAYETLKRCACANPNQRLPKVEILRNAITYICNLQRILYGDHQQPEEQADKTGNSLASTTHAEALSAFSSPASMSPNFCNGNDVIRLAMTSPSTPVSPVNTEGCTDALNEQLSMLQRGDDVSLTSPPGVMCFSEDSVDHTSPTTSVNSDTKRNSSLVCLSSIVESITDEL\*

>Pm\_AMD1
MTCLPFEELDFASYMFSNGSVCLQSLMATPEMTSQLRFVTQSPRRKRSSHDVLLSESISEREVSESRDAKTKEEEQKRMDEIAMKSDLSILEELTNFTSSTTHSDVMFTSPEPVFPTQTDQYVVSPQLGPVEGLKTQGQVTLEKPIKKEQIDNSANFELALENLLESDYVIASEPKLHYPVVTSFDEEAAAPPISSIEPTLTFGNCEENEDAIKAMMQYFTEGTPAKRPHLSIDTALPSVEELLSLSSSSEKSRDFKPSHKVPNPVTSAVFPSNKIDMRTSAFTNSEQLIFKSDAMTNFSEDALDFDAHSNTERVHFAKIPGLQISNSLSGSDGMFDQGDEENSLSSFHHTSHPNGHQCLAWACKACKRKSGPHDRRRAATLRERRRLKRVNQAYETLKRCACANPNQRLPKVEILRNAITYICNLQRILYGDHQQPEEQADKTGNSLASTTHAEALSAFSSPASMSPNFCNGNDVIRLAMTSPSTPVSPVNTEGCTDALNEQLSMLQRGDDVSLTSPPGVMCFSEDSVDHTSPTTSVNSDTKRNSSLVCLSSIVESITDEL

>Af\_MRF
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>Sp\_SUM1
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>Mm\_myog
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>Mm\_MRF4
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>Mm\_Myf5
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>Mm\_MyoD1
MELLSPPLRDIDLTGPDGSLCSFETADDFYDDPCFDSPDLRFFEDLDPRLVHMGALLKPEEHAHFPTAVHPGPGAREDEHVRAPSGHHQAGRCLLWACKACKRKTTNADRRKAATMRERRRLSKVNEAFETLKRCTSSNPNQRLPKVEILRNAIRYIEGLQALLRDQDAAPPGAAAFYAPGPLPPGRGSEHYSGDSDASSPRSNCSDGMMDYSGPPSGPRRQNGYDTAYYSEAARESRPGKSAAVSSLDCLSSIVERISTDSPAAPALLLADAPPESPPGPPEGASLSDTEQGTQTPSPDAAPQCPAGSNPNAIYQVL

>Bf\_MRF1
MEFVELSSCRFDATPTFCDRPAAPNATVLPGEHFPVPNGSYESDHGDGHVLAPGPSFHGPGRCLLWACKACKKKTVPIDRRKAATMRERRRLVKVNEAFDILKKKSCANPNQRLPKVEILRNAISYIEQLHKLLRDSKENSSGEVSDSSAPSPGSCSDGMAAHSPHSFCTDTSGNSSWEHGDRHHGNGHENQSCGNNVSSLDCLSLIVQSISTIEGEENNNASNPPR

>Bf\_MRF2
MMNYTELSSCRFQFDTSYPQSPDQGLDMFGSLQVPAPMEAYGGYGESAGHVPTPAAAAHGPGRCLMWACKTCRSRKASRHDRRKAATMRERRRLVKVNEAFEVLKKKTHMKPNQKTPKVDILRNAIAYIEQLHQTLRDGQENSAGQSADSPAASPGACSDGMSANSPDSVWSDTSGTFQGEDNMASFGCDDVTASWSSASCLDSLSLVVQNISAFAAQDSHQGYTPLRS

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# Nkx

>Bs\_Nk4
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GFSYTTITSNPGSVPMAPTGLNGSGFMSSPNSTTGGYLNEYGYSASYSSPSGQLQDPSYPYSHHQATYPPTDNATTLPRHHSPNSHQYASLPYSQPHQQTCVPAVQNGSSPQPTHFYPRGGPASEAGSEELIDPSGPGDMADTANNFPSSQPFPRSGVDRDNADSNGLYHVNESMHARTDVSQFNASKSPESQNKLTESDATPDDVSIHMEESEKLDNVSNSSGSPEDDDKKKPEEDPSK
SRQRTRRKPRVLFSQAQVFELERRFKQQRYLSAPEREHLAQLLTLTSTQVKIWFQNRRYKCKRQRQDKTLELASACPPRKVHVPVLIRDGQPCLPSPTGSIPGGHPSLQASYSAPYNVTVSPYHSYPSSYTSCGYNTYHPNSNTYSHNAAAAAAAAAYGSAATAGYNPLSAPPMGSGMSAVGGIAGSTLHHQSAVRPTTFATMQGQMQQQPIRNHSTTDYMYKFGLCT\*

>Bs\_Ttf1
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>Bs\_Nk2.2
MTLISKDVDAVECSLHSHRPNASGFSVKDILDLPVSNTRTDFCLGNGHYNRAERLQNVGVPHYPHGSERGETKYSISQHHPGDLYQPHYKGEGIRYYPTRSENLSYPSKNPYSESSCGEAPYYSGCDTEIGLLRRPSESGSPHCEQQRKFIDRFEQDRSPTSPQTPKYTEIGYLENDASGMRLNSVGSPVASGSPCSTTNHDHSPFHRVSYQTSCSDPRIASDVSFPEKEESIQTLDTNSTSRQETRNPDSVLTEEYPNPETRWEQQDTMTKFIADGNDVNEGEAPDSTSCNAEKSPSSDENEDEEEMDMDVGGKKRKRRVLFSKAQTYELERRFRHQKYLSAPEREALANAIRLTPTQVKIWFQNHRYKMKRAKQDKGSISGFDHMGPLQSPRRVVVPVLINNGKPCHSAGHYPGLSVGQDASSNPSVYGPSFHHSPHYEDSMRGYSHMPLGFDMRRPLTGSSVHSQYGNSVQQSSYSYEPTYHLSAYSQRYPSSHPASSPQYAASSYTPPYTPGSANLGPQGPTHYGLEQQFWQ

>Am\_vnd
MADKNKILPWSMLSYQTSLLNHVWYSQLAFSNRILESFKMPRSTSFHIHDILQLDSKPSQEETEVQGSTTVLPTTNDVPSTYQQFFEHTTAMLQPAIYANLNRGTLPPPPPPLLAWPTGPTLPTTLPQPLEEVNVLQQPDSTSPTISDLSFPPKQEANHECKEEESAEFEDEQQANEIQPHETEHKKRKRRVLFSKAQTFELERRFRQQKYLSAPEREHLASIIRLTPTQVKIWFQNHRYKTKRAATEASGSGCSPRRVAVPLLIKDGKPCQSKLMEPATYPATGQVPMPPYIQKPYWW

>Am\_Scro
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>Am\_tin
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>Mm\_nkx2.2
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>Mm\_Nkx2.1
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>Mm\_Nkx2.4
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>Mm\_Nkx2.5
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>Mm\_Nkx2.6
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>Mm\_Nkx2.8
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>CsNK4
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>Cs-TTF1
MSVSPKHSTTTPFSVTDILSPLEESYGNGSVDGIVSGRREFSELYCGMDSGTTSSTGIHVPNLGGGGSTGSISSPMPSYRQPVMGSPPHHSIHHQQMPVTNPYQSATGVNGAYNLHPMPTPPQTTFHTMSGTGGGPMYGNGGVSDLPPYNNVQSHWYGAPSNPDPRFVPSYPRLQIGYGSMMPGTGMDGMHKSLLPPSQRRKRRVLFSQAQVFELERRFKQQKYLSAPEREHLAQMIHLTPTQVKIWFQNHRYKNKRSLKDKQTQDMGVQQQQPQNSVNPQQQHTNEMTHSNPAQLQPIPSNIAPGGSRTPQETYSPVPSGIPPQQGMEEVSDAAHRMVHITNQNGEQSSPRQIAMSDGQACHETTIIESPNLQMSMPSVVHSTDSESGLVPFSSVIKLEEVNVESNETAAGNHGINVPQTHYLGSTHHHDLMNVNVAALNSVDAYQNHHHHNHIPIGNSVLHDPSILYSVYR

>Ci\_TTF1
MSVSPKHSTTTPFSVTDILSPLEESYGTGSVEGIVSGRREFSELYSNMESGAASSAGIHVPNLGGGGSTGSISSPMTSYRQPMMGTPPHHSIHHQQMSSANPYQTAAGMNGSYNLHPMPTPPQTSFHAMPGSGGPTPYGNGGVPELPPYNNVQSPWYGAPSNPDPRFVPSYPRLQITGYGSMMPGTGMDGMHKTLLPPSQRRKRRVLFSQAQVFELERRFKQQKYLSAPEREHLAQMIHLTPTQVKIWFQNHRYKNKRSLKDKQTQEMSVQQQQQQQQQSQTSGNAQPQHTNDLSHSNPSQLQPVASAVPGGTRTPQETYSPVPTGVQASQPGMVDGNDGHRMVHISNQNGDQSSPRHLTMSDGSCHDSTIIESPNMQMPMPNVVQPTDTEAGLGPFSSVIKLEEVNADSAEGSGGNSGNIVPQTHYLGSTHHHDLMNVNVTTLNAVDAYQHHPHHNHIPIGNTVLNDQSILYSVYR

>Ci\_Nk4
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>Mo\_Nk4

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STSDVTPYSLGGSRSGSEGNVSAFADGLSSSSSQQQYSSTSTEVSSIDNVNNQTADSEKSDNVSNCSESPTDGEKKKTEDDASKNRPRTRRKPRVLFSQAQVFELERRFKQQRYLSAPEREHLAQILKLTSTQVKIWFQNRRYKCKRQRQDKTLELAGACPPRRVAVPVLVRDGKPCLGGPGGPMGGGNPSLQVPYSAAPYNVTVTPYHSYPSSYNSCGYNSYPHNPHANYSSATAPYGS

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>Mo\_Nkx2

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EVDNENCMGGLSSVQQYVAPEQHQDMISVNVTTLNTAHATQESSGSPSPYLTHPQPHHHHLTASNGIVNNSILYGLYR

>Hr\_Nkx4

MCRGQNIPKAVRFINEIGFNLFKFRPVTGSTFSILHVTDSAHAKSEKSDNLSNCSGSPRDEDKKKREEDGTKNRQRTRRKPRVLFSQAQVFELERRFKQQRYLSAPEREHLAQILKLTSTQVKIWFQNRRYKCKRQRQDKTLELASACPPRRVAVPVLVRDGKPCLGSPTGHMNGTHQLNPYSAPYNVTVTPYHNYPSSYSSCGYNSYHHPHNPAASYTAAAYGSAAASAGYNTLSGAAM

GAGMGGVGGLPGSALHHHQSATVGVAPSHFSAMQGQVQQGASIRNHSTTDYMYKLGLLKTVNSLTHIIRLTCSNACSSKRIIYHIYIFLNLIEISSTIRRFSIKTQRLFSGNSG\*

>Hr\_Ttf1
MSLSPKQHQSSSTTTPFSVTDILSPLEDHYAGSEVNRGNTNGEVNSNHNHCINISNSNILYNNQQLLSLEQQGHSSLSVRHYESCPTSATGPVHLSAMDPGSLVAVSAALNVPSIGDQSVMGSMSPTGGSVSSIPLYRHPMSIGTSQHGVHHQQMQATMPYQSMNSSAAMGMNGGYNLHTIPPSQSSFHSMSGAGSGSTGYCNGGMADLASYNNVQSSPGWYSTPTNPDPRFGTMPMSRYLTPSPGMGMNTYGGMNMMTGTGMDGMHKPMLPSSQRRKRRVLFSQAQVFELERRFKQQKYLSAPEREHLAQMIRLTPTQVKIWFQNHRYKNKRALKENGSDVQTPSQTTSNENSTQNQGPSQHQQQTNSLMQGQQTYSPNNQVNINCQQNEGGNQQHHMVESVADHQHDQGTQSPRRISVPVLVKDGKPCSAGSAGTPNGSIMTDGMDGVSQASAQESLNAETAIMNVYGNGHLKIDGCGNGNDNSLCVAGATLVAPSPQGHYIGTSQHQDLISVNVSTLSTENMPPMAYHPLQSQHHHLPGASSVVNNSLLYGIYR

>Pm\_Nk4

MQLLHSTRLELASLVPAAPFRSLYNAGQCKEFAPQCDESDLVMRFCFADETCYLRYSEKSDNFSESNCSGSPEESDKKKGDEDGMKARHRTRRKPRVLFSQAQVFELERRFKQQRYLSAPEREHLAQILKLTSTQVKIWFQNRRYKCKRMRQDKTLELASIGPPRRVAVPVLVRDGKPCLGGPGAGIQNSHAPYSAPYNVTVTPYHNYPNSYNSCGYNSYSHPNPNAYAPGAAAAAAVAG

AAAAAYGTAVSAGYNGLSGPGMSGGQGGPMAGYPTPTLHPQHPNPVAMGSSPFGTSTMSPGQVGQPGLHPTPSDYMYKLGLCT\*

>Pm\_Nkx2

MSLSPKQTTTTPFSVTDILSPLDEPYGQHGPATVDDGGNLQTRREIHDSYSSASMDPGHSAVASSGLHVPSLGSSLSTGSTSPPMSSLYRQPMSMGTPPHHGVHHHQQIPAASVPYQSMPTAAAVAAGMNSGYNLHPMAPAPQATFHTMPGSGSSGYCNGTVADLPSYNNVQATGWYGAPANPDPRFGTVSMSRYLNPSAGMGMNTYGGVNMMSGTGMDGMHKSLLPASQRRKRRVLFSQ

AQVFELERRFKQQKYLSAPEREHLAQMIHLTPTQVKIWFQNHRYKNKRSLKDKQAQVDSVTVVTQQQQGSQNSNSQNHHSEINHQQQQQQAMASGNHTPQQTYSPATVAGSGNTGQVQVVTSMVDNADGSHHMVHGMVQQNQQNGDHSPSRRAVMSDVSVGSDRGVEESPNMHLALTPVAQSNLPEPGMPNGNEVGMGQFATTVKIEEVNVVGSEASVPHSHYLSSTNNSQHQDLMNVNV

TTLNTVDAYQQAQHHGHHHLAIGNTMLNDSSLLYGVYR\*

>Bf\_Nk4
MMLPSPVNSTPFSVKDILNLADTGFDDSESGGLPSPEETMLATVQQNHVRCEQLTIGSTTTHHGVCGSTAAMLTSTQKQCMQAGNIDRPCESGNMGLLKKDDRKDDSDDEPPKIPPQAQRQRQRRKPRVLFSQAQVFELERRFKQQRYLSAPEREQLAQMLKLTSTQVKIWFQNRRYKCKRQRTDKTLELTHPPPRRVAVPVLVRDGKPCQMTPPPYSAPYNVSVNPYGYNMNVHGTYSSYNFNSGYSTNYTTYNATVPPVQTVTTMQPPPYSLQPGVHQGIRAW

>Bf\_Nkx2-1
MESISPKQTTPFSVTDILSPLEEMYKKPMDGTMTGGYAGTMNAAAAGMGAGGYRQQVTQPLQHQSMNVPVSNPYMHVPTQLSHGMANPYCNGNVSDLPHYNEHVRNTASSWYGANPDPRFSFPRLMGGHSGGMGNMGMSLGTIEGPKPILPTTQRRKRRVLFSQAQVYELERRFKQQKYLSAPEREHLAQLINLTPTQVKIWFQNHRYKCKRQDKERQKSSTDQPSQQQQQQQQPQQQQQQQQQQQVSQHQAGQVQGQAGQQNMCAAGNSPRRVAVPVLVKDGKPCGNTPSTTPVTGVTANMSAATPQLNPQSQANIIGTTVATVNVNGLNSHMSSGNYANNTMSSCSSSQYLLQQGRAW

>Mm\_NK3
MAVRGSGTLTPFSIQAILNKKEERGGLATPEGRPAPGGTEVAVTAAPAVCCWRIFGETEAGALGGAEDSLLASPARTRTAVGQSAESPGGWDSDSALSEENEGRRRCADVPGASGTGRARVTLGLDQPGCELHAAKDLEEEAPVRSDSEMSASVSGDHSPRGEDDSVSPGGARVPGLRGAAGSGASGGQAGGVEEEEEPAAPKPRKKRSRAAFSHAQVFELERRFNHQRYLSGPERADLAASLKLTETQVKIWFQNRRYKTKRRQMAADLLASAPAAKKVAVKVLVRDDQRQYLPGEVLRPPSLLPLQPSYYYPYYCLPGWALSTCAAAAGTQ

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#MYH Type II Myosin Heacy chain

# class II type Myosins

>Bs\_MYH9/10/11
AMNPPKFTKVEDMADLTCLNEASVLHNLTDRYYSGLIYTYSGLFCVVVNPYKFYPIYTEKVIEVYKGRKRHEVPPHVFAITDTAYRSMLQDREDQSILCTGESGAGKTENTKKVIQYLAHVAASPKSGKVSHGGTNLSYGELEQQLLQANPILEAFGNAKTVKNDNSSRFGKFIRINFDASGYIAGANIETYLLEKARVIQQASNERTFHIFYQLITGANKELQKDLLLEDISKYRFISNGSLSVPGHKDSDEFQETLNAMEIMNIAPSDVKSMLKVISAVMQFGNMDFKKERSSDQACMPDNTVAQRLCALLGIDVVSFTKALLKPKIKVGRDFVQKAQTKEQVDFAVEALAKAIYERLFRWLVHRINRSLDRSTRQGASFIGILDIAGFEIFETNSYEQLCINMTNEKLQQLFNHTMFILEQEEYRREGIDWKFIDFGLDLQPCINLIENPSNPPGILALLDEECWFPKATDKSFVEKLVKEQGNHPKFMKPKSLKDKGDFIIVHYAGKVEYTAKKWLMKNMDPLNDNVTDLLHNSNDEFVAGLWKDMSKVVGMENLVGADKPFGSSTYKTRKGMFRTVGALYKDQLGRLMTTLRNTNPNFVRCIIPNYEKKPGKIVAHLVLEQLRCNGVLEGIRICRQGFPNRIPFQEFRQRYEILTPNVLPKGFMDGKKAAVKMLEELDLDENLFRIGQSKIFFRGGVLAHLEEERDL

>Bs\_MYH2
BEAFGNAKTIRNDNSSRFGKFVRTHFGNTGKLASGDIETYLLEKSRVIFQQGGERGFHIFYQICSGAKPELLESLLVTTDPYSYRYISQGEVTVSGLDDSDELRATDSAFDVLGFTPEEKMGIYKIMGSIMHAGNMKFKQKPRDEQAEADGTEDADKISYLLGINSSEFVKAMTQRVRVGNDYVTKGQTVKQVYYSCGAMCKAVYDRLFSWLVKRINETLSTKMPRSFFIGVLDIAGFEIFDFNSFEQLCINFTNEKLQQFFNHHMFVLEQEEYKREGIDWEFIDFGLDLQACIELIEKPLGIMSILEEECMFPKASDSTFKEKLYTNHLGKSNNFIKPRPQIKRKFEAHFELIHYAGIVGYNIEGWLEKNKDPLNNSVVALYRKSTLKVLATVWEGYVSPDDVTEQKKAGRGKRQKGGSFQTVSSLHRESLNRLMTNLRSTQPHFVRCIIPNEMKQPGMMDNSLVLHQLRCNGVLEGIRICRKGFPSRILYAEFKQRYRILNPNAAPEGQFMDSKKATEKLMASLEMDSSQFKFGLTKIFFKAGMLGELEDMRDQRLSLIITMIQSRARGKQMRIEYQRMLERRQALIVIQANLRSYFAVRNWEWMRLMFKIKPLLKSAESAKEREAIEKEMGDVKEVLEKEKKRRQELEENQVSLIQEKNDLVLQLTAEQENLQDAEDRCDQLIRTKVELESKIKDIVERLEDEEEVSNDLVSKKRKLEDECSELKKDIDNLELTLAKVEKEKHATENKVRNLTDEVTTLEETVAKIQKEKKALQEAHQQTLDDLQLEEDKVNSLTKQKSKLEQQVDDLEASLEHEKKVRMDMERAKRKLEGDLRLAQESIMDLENDRQRNEEKLKKKEFEFNQLSTKLEDEQALISQLQRKIKELQSRIEELEEELDAERAARAKAEKQKTDMSRELEELSERLEEAGGATSAQVELNKRREAEFSKLRRELEESNLAHESMLSTLRKKHADSDAELTEQVDNLQRVKQKLEKEKSELKMEIDDLSTNVESVTKGKLQFEKLSRNLEDQLSEAKAKNEEMGRELSELNQKHARLSSEKGELGRAVEEKEAIMSQYTRTRNSMQQQIEELKRLLEEESKAKSALAHGVQSSRHDNDLLREQYEDEQEAKAELQRALSKANAEVAQWRTKYETDAIQRTEELEEAKKKLAARLQDAEEAVEAAQAKASSLEKTKQRLQGELEDMSIEIEKSNSAAAALDKRQRNFDKVLAEQKQKSEELQVDLEQSQKEARSLSTELFKMKNAYEEALDALETIKRENKNIQEEISDLTDQLGEGGKSIHELEKARRSLEHERTELQAAFEEAEAAVENEESKVLRLQVELAQTKQDFERRLQEKDEEIDNARRNASRSIESMQATLDAESKARSEAQRIKKKMESDINDLEMQIAHTNRQAHDAIRQLKDSQASSKEMQMQVDDAIRRNEDMQEQQSVTERRANLLQAELEEMGASLEQAERGRKLAEGELMEVSERANLLHAQNTALINQKRKLEGEIQTMQSDVEEAVQEQRDAEEKAKKAITDAAMMAEELKKEQDQSAHLERMKRNMEQNVKDLQMRLDEAEQVALKGGRKQVQKLETRVRELENEVDAEQRRHVETSKLLRKAERRNKEVTYQSDEDKKNLLRMQDLVEKLQVKVKTYKRQCEEAEEQANVNLSKYRKLAHELDDAEERAEMAESALAKLRSKARESVGSGLGGKLGSSYKGVE

>Bs\_MYH3
MNPPKFEQASDMANMTFLNEATVLYNLRSRYASMRIYTYSGLFCVCVNPYKWLPVYGARVVGMFRGKKRNEVPPHLFCVADNAYHDMLLDRENQSILITGESGAGKTENTKKVIQYFANIAASQKQDAAAEKKGNLEDQIVQTNPVLEAWGNAKTIRNNNSSRFGKFIRIHFGTTGKLSGGDIESYLLEKSRVIFQLSAERSYHIFYQMLSSKKPELLDQLCVTDNAADYRYVSNGVLTVDNMDDTLEFGYTDEAFDILGFTASEKFESYKITCGCMLFGNMVYKQRPREEQAEVENVDVADKVAHLFGINSNELCKSITRPRVKVGNEYVQKGQTQDQCYYGTGALSKAVYDRYFKWLVMRLNETLDTKLPRNYFIGVLDIAGFEIFDFNSFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWEFIDFGMDLQACIDLLEKPMGIFSVLEEESIVPKATDTTFKNKLYTGHEKKSKAFLKPKPGRKSNADFTVAHYAGLVDYNVTGWLEKNKDPLNESVLGLFRKSTSKLMAGLFPEDAPDTGGKKRKKKGGSFQTVSALYREQLNKLMTNLRNTKPHFVRCLIPNEMKQCGTMDAALVLGQLRCNGVLEGIRICRKGFPNRMQYPEFKQRYQILAAKKVAGIVDSKKATEIILSHIELDTAMYKIGHTKVFFKAGILADLEDKRDE

>Bs\_MYHE
MNPPRYKKCEDMVNMTHLNEASVLNNLKERYESFMIYTYSGLFCVTVNPYKMLPVYNSYVIAAYKGKRRTEMPPHLYSIADNAYTEMLMNRENQSMLITGESGAGKTVNTKKVIQYFALVAAQGGGGQNDDKGTLEDQIVQCNPAMEAFGNAKTARNDNSSRFGKFIRIHFGSTGSLASGDIEHYLLEKSRVIFQQGGERNYHIFYQLISGSKPELIDQLLLTKDPYDYKSISQGVVTVDGLDDGAELILTDDAFKILGFTPEEVNGIYRIMAGIMHQQNMKFKNKQREEQAEPDGTEDADKVSYLLGLNSADFLKYLCHPRVKVGNEYVTKGQTVNQVSYGMGALSKGVFEKHFNWLVKIINNSLSTKLPRSYFIGVLDIAGFEIFDFNSFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIDWVFIDFGMDLAACIELIEKPLGIMSILEEECMFPKASDKTFLDKLYQNHLGKTKSFGKPVKKTKFEAHFELHHYAGSVGYSITDWLEKNKEPLNNSVVELYKKSSLKLMQTIWEGYVSADDNSGGGGKGGKRKKGGSFQTVSSMHRESLNKLMTNLRSTAPHFVRCIVPNETKTPGSMDNHVVLHQLRCNGVLEGIRICRKGFPNRLPYGDFKQRYRILNPNAVPDGQFLDSKKASEKVLTSLENIDHEKYKLGHTKVFFRAGMLGVLEELRDN

>Hr\_MYHE
MIASLVQLSLLDSCYSASNVIHIQRKNSLYYVERLWSITSLYKMATLDLSMFQDAAQYLRMSQQEMLELQTQKPDGKKYAWVPDKQHAYLQGEVISSEGGKAKLKTLEEGKEVTLKEDDVQLMNPPRYNKCEDMVNMTHLNEASVLKNLNDRYKAFMIYTYSGLFCVTVNPYKMLPVYAPYVIQAYKGKRRTEMPPHLYSIADNAYTEMLMNRENQSMLITGESGAGKTVNTKKVIQYFALVAAADDGSSGNDDKGTLEDQIVQCNPAMEAFGNAKTMRNDNSSRFGKFIRIHFGSTGSLASGDIEHYLLEKSRVIWQQGGERNYHIFYQIISGGKPELIDQLLVTKDPYDFKSISQGVVTINNLDDGEELRLTDEAFHVLGFTQEEINGIYRIMAAIMHQQNMKFKNKQREEQAEPDGTEDADKVAYLLGMNSADFLKYICHPRVKVGNEFVTKGQTVPQVTYAIGGLSKGVFEKHFNWLVKIINQSLSTKLPRSYFIGVLDIAGFEIFDFNSFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIDWVFIDFGMDLAAVIELIEKPLGIMSILEEECMFPKATDNSFKEKLYQNHLGKTKAFGKPVKKTKFEAHFELHHYAGTVAYSVTDWLEKNKEPLNNSVVELYKKSSLKLMQTIWEGYVSTDDASSGGGKGKRKKGGSFMTVSSMHRESLNKLMTNLRSTAPHFVRCIVPNDTKTPGEMDPHIVLHQLRCNGVLEGIRICRKGFPNRLPYGDLKQRYNILNPNVVPEGQFLDSKKASEKLLGSLDIDHTQYRLGHTKVFFRAGMLGVLEELRDSKLSTIFKLIQARLRAKLMQIEYNKLIEQRVAVRVIQSNLRAFFGVRDWEWMKLMFKIKPLLQTAEAAKEFEQLEAENEELKTNYEKESKRRKELEESQVSLIQEKNDLLLQVQSEQDRIEDAEDRCDQLIRTKVELDGKVKELTERLEDEEELNNELVSKKRKLEDECSELKKDIDDLEITLAKVEKEKHATENKLKNLQEELASQDEQIAKLQKEKKALQEAHQQTLDDLQSEEDKVNSLTKQKSKLEQQVDDLEASLEQEKKLRMDLERTKRKLEGDLRLTQETVMDLENDKQRLEEKLKKQEFEYSQLATKLEDEQALVMQLQKKIKELQARIEELEEELEAERAARAKVEKQRADLSRELEELSERLEEAGGATAAQIELNKRREAEFSKLRRELEESNLAHEATVSTLRKKHADSSAEMSEQIDNLQRVKQKLEKEKSEMKMEVDDLAANVESVTKAKLNYEKMARNLEEQYSESKTKCDNFMKEVNELNAAKARLTSEVGELSRQLEEREHLMAQLTRSKNSSSQQIEELKRVVEEETKAKAALAHSVQASRHDNDLLREQYEEEQEGKAELQRALSKANAEVAQWRNKYETDAIQRTEELEEAKKKLAARLQEAEEQVEATQAKCASLEKTKNRLQGELEDLTVDLERSNSAAAALDKKQRNFDKVLSEHKQKEEEIQVELEQAQKEARGLSTELFKMKNAYEESLDALETVKRENKNLQEEIADLTDQLGEGGKSIHELEKAKRTLEHERNEIQAALEEAEGAIEGEESKVLRLQVELAQIKQDFERRLSEKEQEIDNQRRNQQRSLESMQTTLDSESKSRQEAVRMKKKMEGDLNDLEIQLGHATRQAGEAQKTVKTAQAHIKDLEMQVDESQRQSDDFQEQFAVIERRENLVKAEIDELRAALEQAERGRKLAETELLESSERSNLLHTQNTALINQKRKLEGELQNMQAEVEEAVQEQRNAEEKAKKSITDAATMAEELKKEQDLSSHLERMKKNMEQTVKDLQQRLDEAEQVALKGGKKQVQKLETRVRELENELDSEQRRNSESVKNQRKFERKLKEVTYQAEEDKKNLVRIQDLVDKLQIKVKTYKRQAEEAEEQANQNMSKYRKLQHELDDAEERADMAESSLNKLRSKAKNM\*

>Hr\_MYH3
MENRSEFSPAALLSSRRRSRRFSKQTSQAEKQALNDTDDVYRLLKYGVKAHEVSDDTNIHTKNCNFEHDHTFQKSENSVVLKSVCKTSMSRFVETNTVSQNSTQFLQNCDSTTVGGEEEEEKTLENSFISPQFGEESLEFEESIGFDSNYSIDSYNLYNNELHIEEEVFDKDSIELKVSSATNMASESGSDYEVDTDVVNSWLDEPTAVQSSKRTFSSEKTIKSARIPASSKMVGVDLTTGNFVCDSRTVQRDGNELANVHDMEQETVADLEERNEQLVKAKQELETTVADLSERLEEEEATNEQLSAAKRKLEKQNDDLQHDVEDLESNVSRLEKDKQSLELKIRNLNADVDQRDQNIDRLQKEKKQLEQINQQTLEDLQAMEDKANHLGKLKIKLEQQIEDVEDQLEQERRLRTDLDKAKRKLETDLHNAHETISELEKDKAGLEDVIRKKDFEANQLATRLEDESNLVAQLQRKIKELQARIEDLESELEQERQARTKVERSRNELQRELEGLGEQLEEAGGATVAQFELNKRREADYLKLRREYEETVLQSDAALSSLKKKHSDMVSELTDQVESLTRVKGKIDKERSMLRIEVDDLASQLEEVTKIKARAEANCRSLEDTVVDSKVRIEEHIRTINEVTIMKSKLTNENIDISHQLEEAENKVNSLTRFKSNLTSQTEELKRLVEEETKAKQSLGHALQAARHDLDLMREQVEEEQEGKAELQRALSKANAEVANWRTKYETDAIQRTEELEEAKKKLAIRLQEAEEQTENALAKCASLEKTKIRLTNEVEDLTIDLERANATIAALDKRQRDFDKELASWKMRVEELQAELDAAQRECRNYSTEIYKLRASYEETIEQIEIVKRENKTLSEEIGDLMDQLGAGGRTLHESEKARKKAEMESDELRTALEEAEGALEIEEGKVLRLQLELTQVKADIDRRLQEKDEEFESTRKNHARAIESLQASLDIEIKARTDATRAKKKIEAQLNDLEMQLDHANRNLAEQLKLVRKFQLTIKEMQDQMDEDQRIHDELREQYSIQERKLNILLSELEETRSSLESNERARKMAEHELLEITERVNIMSAQNSALSSAKRKLETENDQMRGEFEEALAEARNADERAKKAVGDAARMAEELRQEQLHVMSVEKIKKSLEIQVHEISIKLDEAEANALKGGRRALAALQMRVKDLENELEAEQRRHAETTKNFRKMDRRLKELSFQADEDQKNQLRMQELVEKLQAKLKQYKKMTEEAEEQANLNLAKYRKVTHDLEEAEERADISESALSKVRSKSRYMSGSTGPGGSYSYSISRKVVTTKGASSSAYES\*

>Hr\_MYH9/10/11
MQLEELDLDGNLYRTGKSKIFFRGGVLAHLEEERDLRLTDIIIQFQAACRGFLARKFFAKRKDQLRAIRVIQRNALAYLKLRNWPWWRLFTKVKPLLDVTRQEEDLHAKEKELKTVMEKRDQLEEDLSHVEKKYAQVCEEKLALAERLAQEQELAEEAEDSRARLALKKVDLEVLLNELETRLEDEEERSLSLSNERKKLQVCIADLEDNLEKEEAARQKLQLEKVTSEAKIKKYEEDLAITDENLNKIQRERKSLEERVNELQASLADEEDKAKTYGKQNHKYEAIIADLEERLKREEKLRMELEKIKRKLEAEIAELKDTIEDLQLQRDDLKSQCQRKDDEIAKLNEKLDQDQAERTTLTKVLREVENAKSELQEDLEAERVQRAKSEKNKRDLKEELDALKAELEDSIDSTTAQQETRVKREMELESLRNHLKEENETHEQQIQDMRKKQTMQLEELQVEIDSYKKSKSSLEKAKNAVESECSEVIEELRLVTQAKADSDSKRRKQDTVIQEYSAKLQDTERQRNDLQDKYTKSQNELDTFSQNLEQLESQLSRSTKDVSQLNMQVQDLQAQLQEESSAKLKLTSQIRGLDDDRNNLEEQLEEEEEARRNVEKQLATANAAMIELKKTMAGDNEAIEHLEENKKRLQRDLEEKTQALEDKSAQADKLDKTNKRLTNEVDDLNLELDKYRQQMTMMDKKQRQFDKALADERQISTKYADEKDRAVREAMEKEARAISLMDQCESLMAKVEDLEKKRKAQQQELEELVSSTDASGKNVHGLEKSKRALESQLEEMKTQLEELEDELQLTEDSKLRLEVNMQAIKSNYDRDVQQREEQAEEKRKSILKQLREMEAELEEERKQKSAAIAAKKKLEMDLSDIDGHLEGAAKAKEDALKQLKKSQAQMKECIRDLDDVRASRDDLALVARDLEKKSKSKDADILQLHEDLATSERSRKNIEQERDDLSDELQNSMKEKTTLQDEKRKMEIQLSDMEEEKEDVEQSLEFTEDKLRKAIAQAEQAQNELQMERSSAQKAENARAQLDRQNKELKLKLAEMEQMVRTKQKNAIAAMESKILNLEDQLEAESKDRAAAFKQVRRTEKKAKEISMQVEDERRQTDLYKEQVDKLNTRVKGLKRQVDDAEEEVSRANASKRKIQRELDETMEQTEALQRENNQLRNKVRLSELNLYMQCTDQRDNHKMNPLTWYVLFDATVVIVTLLNLFRFTPVALCPRLNFAFLFLIQSGGRSDLPRSKRDRYIHIVLKP\*

>Mo\_MYHE\_v1
MTVSASHRDSLNRLMNNLKSTSPHFVRCIVPNGTKTPGTMDGEIVLHQLRCNGVLEGIRICRKGFPNRLPYGDFKQRYRILNAEACPEGQFLDSKKASEKLLGSLDVDHTQYKLGHTKVFFRAGFLGVLEELRDDKLSSIFKLIQARIRAKLMKIEYNKLIEARVATRVIQSNLRAFFGLRNWEWMKLMFKIKPLLQTAEAAKEREQLEKEFEETKEQLEKESKRRKELEESQVSLIQEKNDLVLQLQSEQDRIDDAEDRCDQLIKTKVELDGKIKEIQERLEDEEELNNDLVSKKRKLEDECSELKKDIDDLEITLAKVEKEKHATENKLKNLQEELASQDEQIAKLQKEKKALQESHQQTLDDLQSEEDKQEFEYSQLATKLEDEQALVSQLQKKIKELQARIEELEEELEAERAARAKIEKQRSDLSRELEELSERLEEAGGATAAQVELNKRREAEFSKLRREFEESNLSHEATVSTLRKKQADTAAEMSEQIDNLQRVKQKLEKEKSEMKMEIDDLATNVESVTKAKLNYEKMARNLEEQLSEAKTKGDNLTKEVNELNAAKARLSSENGEYQRQLEEREHLMAQLTRSKNSSAQQIDELKRVVEEETKAKSALAHAVQAARHDNDLLREQYEEEQEAKADLQRALSKANAEVAQWRNKYETDAIQRTEELEEAKKKLASRLQDAEEQVEAAQAKAGSLEKTKNRLQGELEDMTIDLERVNSAAASLDKKQRNFDKVLAEHKQKYEEIQVELEQSQKEARSLSTELFKMKNAYEESLDGLETVKRENKNLQEEIADLTDQIGEGGKSIHELEKAKRSLEQERNEIQAALEEAEAAIEGEESKVLRLQVELAQNKQDFERRLAEKEEEIDNQRRNSQRSLESMQTTLDSESKSRQEAVRIKKKMEGDLNDLEIQLGHSNKQVGESQKQSKSLQAHVKDLELQVDESQRQSEDCQEQLAVVERRSNLLMGEIEELRSALEQAERGRKLAETELLESSERSNLLHTQNTALINQKRKLEGEIQTMQGEVEESVQEQRNAEDKAKKAIVDAATMAEELKKEQDMSAHLERMKKNMEQTVKDLQQRLDEAEQVALKGGKKHVQKLETRVRELENELDAEQRRNNDALKGQRKYERKLKEVTYQAEEDKKNLTRIQDLVDKLQIKVKTYKRQAEEAEEQANANLGKYRKLQHELDDAEERADMAESALNKLRSKARDIKYRFCIPAVYKVNEVFNSKEYLLYRNTCGLFKTTCGSSSF

>Mo\_MYH3
MLKLMHVLSLCVRNSILIDLVIATAITFYQNGTKSIERDCEGKIDLVTLLEIFFIGECGPEDDPMLFLRPTEKEKLQFASQSYDSKKNIWVPNKKEGYLKGEVVKREDGKVTVNTSRGDELVLKEDDIQQQNPPKFEQTSDMANMTFLNEASVLYNLRTRYACMRIYTYSGLFCVCINPYKWLPVYGARVVGMFRGKKRSEVPPHLFCIADNAYHDMLQDRENQSILITGESGAGKTENTKKVIQYFANIAAASAIKSEAEQKKGNLEDQIVQTNPVLEAWGNAKTVRNNNSSRFGKFIRIHFGTSGKLSGGDIESYLLEKSRVIFQLKAERSYHIFYQVLTSGRPELLNSLMVEPDAGQYKNVSNGVLVVDNMDDKMEFDFTDEAFDILGFTATEKAESYKVTIGTMLFGNMLYKQRPREEQAEVDSTDIADKVAHLFAINSSELCKGMTRPRVKVGNEFVQKGQTAQQCTYSTGALCKAIYDKYFKWMVFRLNETLDTKLPRNYFIGVLDIAGFEIFEFNSFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWTFIDFGMDLQKCIDLLEKPMGVLSILEEESIVPKATDDTFKNKLYDQHEKKSEAFLKPKPGRKGNAHFTVKHYAGEVGYNVTGWLEKNKDPLNNTVVSLFQKSSSKLMSSLFPVVADEVGKKKKKGGSFQTVSALYREQLNKLMTQLRNTKPHFVRCIIPNEMKQPGVLDSHLVLNQLKCNGVLEGIRICRKGFPNRMQYPEFKQRYQILAAKKVASIVDSKKATEIILSHIELDTNMYKIGHTKVFFKAGILAELEDQRDEVLAVIVTGMQARARGKLMRIEFKKMIERRRAAKVIQRNVRKFVQFRDWQWWKLYTKVKPLLNVVRVEDELKAKDEEIADLKGKLEKEGVLRKEYEEKSVTLLSEKNDLMLQLQAEQETLAEMEERNELLVKQKQDLDTQVADLSERVEEEESNNEKLSAAKRQLEKQSEDLRSDVEDLEGNIGRLEKDKQGLELKVRNLNSDVEQRDDNINRLQKEKKQLEQVNQQTLEDLQAMEDKANHLGKLKIKLEQQIEDVEDQLEQERKIRADVEKAKRKLESSLHEANDNIMDLEKDKSNLEDNLKKKEFELNQRSSQLEDEQNLVLQLQRKIKELQGRIEELESELESERSARSKVERNRNEIARELDQLGEQLEEAGGATQAQIELNKRRESDYLKLRRDYEEAVMQSDANLGSLKKKHSEMQQELSEQVEGLTRVKAKIEKERNQLRVEVEDLTSQLDDMSKAKSRAEANSRVLEEQSMDLKVRIEEHTRSVTELTSFQTKLTNENIDISHQLEDAESKASGLSRIKANITAQVEELKRSFEEESKAKQSLNHALQAARHDLDLMREHVEEEQEGKMELQRALSKANSEVANWRTKYETDAIQRTEELEEAKKKLALRLQEAEEQTENALAKCASLEKTKLRLTNEVEDLTIDLERANATIAALDKRQRDFDKELAIWKQRVEELQADLDQSQRECRNYSTEIYKLRASYDECIEQIEIIRRENKVLTEEIGDLTDQLGAGGRTLHESEKARKKAEMECEELRTALEEAEGALEIEEGKVLRLQLELTQVKADIDRRLQEKDEEFESTRKNHARAMESMQASLDAEIKGRTDAVRAKKKLEAQLNDVEMQLEHANRNLAEQHKLCRKLQTTIKEMQDQMDEDQRIHEELREQYSLQEHKIHILTSELEETRVSLETNERARKQAEAELIDATERLNALSSQNAALSGLKRKLETENEQMRGELDDALSEARNADDRAKKAVGDAARMAEELRQEQQHVMSIERVKKSLEVQVHETQLKLEEAEANALKGGKRQIASLQARVKDLNSDLDAEQRRHAETLKNFRKMERRMKELAFQADEDQKNQARLQELVERLQAKLKQYKKMAEEAEEQANANLAKYRKVTHELDEAEERAEISESALNKIRSKSKYLSGSGGGAGGSYSYTISRKNNVLKSSASMPYDSYSHKNSLIGGFASYHLLSGRSTPTHDNDVFSSNIPSWRTSASILEDNKSNTSTEKFSADGGAKEQQEFVMKGDARNPNSTECELDVAEDDESSRQNVENVGTGDENVDGTIEVVARRRSRKHDLNSSSSSIKNDE

>Mo\_MYH2
MAAWDPAAAKDAAQYLRLSQQDLIQIHAQPYAGKKAVFIPHKTNVFQKAEVVGPSEKKGCKVVKLEDGKEMNVKEENIEEQNPPKFSIIEDMANMTYLNEPAVLQNLGQRYERFMIYTYSGLFCVTINPYKMLPVYKDYVVGCYKGKRRAEMPPHIFSIADNAYNDMLRNRENQSMLITGESGAGKTVNTKRVIQYFATVAALSDAADTKPKDGSKGTLEDQIIQANPALEAFGNAKTIRNDNSSRFGKFIRIHFGNTGKLASGDIEKYLLEKSRVIFQQGGERGFHVFYQLCSGGKPELMETLLITSDPYEYKFCSQGDTTVQGLDDVEELIATDTAFDVLGFSPEEKMGIYKIMGSIMHAGNMKFKQKPREEQAEADGTEDADKLCYLMGINTAEYMKALTLPRVKVGNDFVTKGQTVQQVYYSVGALCKAVYEKVFSWLVKRINETLSTKLPRSFFIGVLDIAGFEIFEFNSFEQLCINFTNEKLQQFFNSHMFVLEQEEYKKEGIEWEFIDFGLDLQACIDLIEKPLGVFSILEEECMFPKATDKSFQEKLYTNHLGKSNNFIKPRPQIKRKFEAHFELIHYAGIVGYNITGWLEKNKDPLNTSVVGLYKKSSLKVLATVWESYVSPEEAAAAKKSGGGKGRRQKGGSFQTVSSLHRESLNRLMTNLRSTQPHFVRCIIPNEKKQPGMMDNQLVIHQLRCNGVLEGIRICRKGFPSRIVYSEFKQRYRILNPSSIPEGQFVDSKKATEKLMASLELDHSQYRFGHTKIFFKAGMLGMLEDMRDERLAKIITLIQARARGKQMRIEYLKMLERRQDCLQACKVIQANIRAYLSVRNWEWMKLMFKIKPLLKTAESAKEREIIEKEVEDLREELEKEKKKRKDLEENQVTLIQEKNDLVLQLTAEQDNLQDAEDRCDQLIKTKVELESKIKDYDERLEDEEETNNDLVSKKKKLEDENGELKKDIDDLELTLAKIEKEKHATENKARNLTEEVASLEEMLAKSNREKKALQETHHQTLDDLQTEEDKVSSLSKQKAKLEQQVDDLEVGLEQEKKTRMEMERIKRKLEGDLRLSHETIMDLENDKQILEEKLKKREFEYNQLMSKLEDVESLVAQLQRKIKELQARIEELEEELDAERAARAKVEKQRMDMQRELEEISERLEEAGGATSAQIELNKRRELELSKLRRELDEATLAHDAMVVSLRKKHADEVATLSEQVDNLQRVKHKLEKDKSEMKMEIDDLTTNVETITKQKVHFERMSRNLEDQFTESKSRNDQMTRELNELNLKHERLSNEKSELSRAIEEKETIMSQYTRTRNSMQQQMEELKRQLDEETKAKNALAHGVQGARHDNDLLREQYEEEQEAKAELQRALSKANAEVAQWRTKYETDAIQRTEELEEAKKKLAARLQEAEEEVEAAQAKASSLEKTKLRLQGEIEDITIDLERSNSAAAGLDKKQRNFDKMIAEYKQKQEELQVEFEQSQKECRSVSTELFKMKNAYEEALDALETIKRENKNLQEEISDLSDQLGEGGKSIHELEKARRSLEHERTEIQAALEEAEAAVENEESKVLRIQIELAQEKQEHERRMREKEEDIENTRRNCQRSLESMQATLDSESKSRSEAHRIKKKLESDLNDMEVQLSHAFRQAQEAQRLLKEHQAHGKDSQIQLDEMIRRNEDLEEQQATSERRCNLLQGEIEEIRASLEQAERGRKLAENELMEVSERANLLHTQNTALINQKRKMESEIHSMSADIEELVQEQRNAEEKAKKAITDAAMMAEELKKEQDQSAHLERMKKNNEQVVKDLQMRLDEAEQVALKGGRKQVQKLETRVRELENEVDGEQRRQVDTSKMLRKAERRMKEVTYQAEEDKKNLSRMKDLVEKLQNKVKTYKRQCEETEEQANINLAKYRKLQHELDDAEERADMAESALNKLRAKARDSVSAYSITKNID

>Pm MYH3b
MSDDAHRLSVRRRTRNRSIINPKDVEESKSYEVTNSLQEVTRSVHDVITVTQSSEVEVTTVRRSRASRDLKRLSVNTGSTSSPANSTRHSNDVDSSYSPRHSENMEQHLDSPRSHEANDDVGVTRRCSLMNSQRSGKLMELRNRYTSDEVDSMTFEDEEVELKSERSQQSDATDEQYDVTTNGAHESVTSWLMNDCSSSASEDSDSSSDSESGRGETKAPSRQISAENLNELVNGCELSAEEVNEPLVEQEHVNESINSRLPPMEQYRLCFEEQDNLADAEERNEQLVKNKQDLENQVADLSERLEEEEANNEQLSAAKKKLDRQVEDLTHDIEEAESNINRLDKDKQNLELKLRGLSVDLEQREESISRLNKEKKQLDQVNQQTLEDLQAMEDKANHLSKLKTKLEQQVEDVEDSLEQERKHKNDLEKSKRKLEADLRNANDTITDLEKDKSSLEDALRKKDFEINQLNGRVEDEQTQCVQLTRKLKELQARIEDSENELEMERMARSKVEKNRNELVRELDHLGEQLEEAGGATVAQIELIKRREADYIKLRRDYEESVMQSDATISQMKKKHQDTVTELVEQVENLVRVKNKVEKDRTQLQMELDDVSSQLEEISKMKARAEANVRVMEEQVTDYKIRVEENNRSITELNMFKSKLMSENSDTSHMLEEAENKVNGLSRAKSNMTSTIEDLKRQLDEETKSKQSLNHALQAARHDLDLLREQVEEEQEGKSELQRALSRANTEIANWRTKYETDAIQRMEELEEAKKKLAIRLQEAEEQTENALAKCASLDKTKIRLQNEVEDLTIDLERANATISALDKKQRHFDKEIATWQQRVEELQAELDASQREARNYSTEILKLKASYEESIEHLEIIKRENKNLSEEINDLTDQLTTGGKSLHELDKAKKKAELECEELRSALEEAEGALELEESRVLRLQLELTQVKADIDRRLQEKDEEFDSTRKNHQRAIESMEASLEVEIKSRNDAMRGKKKAEAALNDSELALDHANRNLAEQMKLVRKLQVTIKEIQDQMDEDQRIHEELREQYSIQERKLTIMMSELEETRSALESNERARKHAESELMEISDRINVLIAQNSALSSARRKLETDNDQLRTELEEALIEARNADERAKKATGDAARMSEELRQEQQRIISLERIKKTLEVQVHEISIKLDDAEANALKGGRKALATMQARLKDFENELAAEQRRHAETLKNYRKMDRRLKELTFQADEDQKNQTRMQELVEKLQLKLKQYKKMAEEAEEQANNNLTKYRKATHELEEAEERAEISESALNKVRSKSRYMTNLISESTNCNVTSESSTSFMLTSTTSSPQPPSSNHILEASIRFASEVSPRFDFKHSALTSPTEILRHKSITSLQSFDDSELEPDKKRSHSPSGVSESVTSQSSISSQSGSQDMTNDL\*

>Pm\_MYH3a
MPGCGIGQVGECGPGDDPMPFLAPTEKEQMAFASQTYDGKKNVWVPHKKEGYIKAEVLDSSGGKVTVKTIKNETITVKEDDVQQMNPPKYEQTSDMANMTHLNEASVLYNLRSRYASMRIYTYSGLFCVCVNPYKWLPVYGAKVVVMFRGKKRAEMPPHLFSVADNAYHDMLMDRENQSILITGESGAGKTENTKKVIQYFANIAAQTTQKPDSEKKANLEDQIVQTNPVLEAWGNAKTIRNNNSSRFGKFIRIHFGTSGKLSGGDIESYLLEKSRVIFQLPAERSYHIFYQIMSSGKPDMIEQLCITTNPKDYQWISQGVLTVDNMDDKQEFAFTDEAFDVLGFTEDEKVGSYRLTCGVMVFGSMRYKQKPRDEQAEVDSVEIADKCSYLFGINSNELCKAITRPRVKVGTEYVQKGQNVDQCKNSTGALGKAVYNNLFRWIVFRLNITLDTKLPRNYYVGVLDIAGFEIFEFNTFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIQWTFIDFGMDLQDCIELLEKPMGIFSILEEESIVPKATDETFKNKLYEQHDKKSKAFVKPKVSGKKSGNAHFSVRHYAGIVDYNVDGWLNKNKDPLNESVLSLFRKSSNKLMSGLFPEVKEEGGGKKKKKGGSFQTVSALYREQLNKLMTNLRNTKPHFVRCIIPNEMKQPGIMDAHLVLAQLKCNGVLEGIRICRKGFPNRLPYPEFKQRYQVLAAKLVANMVDSKKATETVVSHVELDTALYKIGHTKIFFKAGVLADLEDKRDEILSIIVTKMQSRVRGKLMRIEFKKMLERQRAARAIQRNIRKFLQFRDWQWWKLYTKVKPLLNVVRVEDELKAKDDEIADLKDKYGKEEKLRKEYEEKCVHLLSEKNDLTLQLQATRDGEPLTRGSRSDPPREF\*

>Pm\_MYH9/10/11
EYRREGIEWKFIDFGLDLQPCINLIERPSNPPGILSLLDEECWFPKATDKSFVEKVVKQLGDHPKFQKAKQLKGSSDFSIIHYAGKVEYTAERWLMKNMDPLNDNVTDLLHNSLDPFVSAIWKDMSKVVGMEQLVAGGENKFSQAYKTRKGMFRTVGALYKDQLQKLMTTLRNTNPNFVRCIIPNYEKKPGKIVAQLVLEQLRCNGVLEGIRICRQGFPNRVPFQEFRQRYEILTPNVLPKDIMDGKKAAIKMIHALDLDENLYRIGQSKIFFRGGVLAHLEEERDLKLTDIIIQFQASCRGFIARRNFSKRKDQLRAIRVIQRNGLAYLKLRNWPWWRLFTKVKPLLQVTRQEEDLNAKERELKAVQEKKDALEKDLQDIEKKFAQTVEEKNALSDQLIAEQELYADAEEMRSRLATKKTELEEILQDMESRLDDEEERNQLLGQEKKKMQLNIKDLEEQLDEEEAARQRLQLEKVTLDAKCKKMDEDLNMMEDTHAKIQRERKALEERVNELESGLGDEEEKAKMLTKLKNKNEAVIQDLEERLKKEEKHRQELEKIRRQLEAEIAELRDQIADLQMQVEELKSQNQRKDEELASLQERFDQEQSARNQTNKSLRDLQNSHAELQEDLEQERSQRNKAEKQKRDLSEELEALKTELEDSLDTTNAQQELKSQRERELENLKRTLDSETQSFETQLQQMRQKHNGQVEQFQDEIDSLKRFKSGLEKSKHSLDSENQELQEELRLITSAKNDSETKRRKQEAQIQELSAKLQDTERNRNEFQDKYNRIQSEYDALVVNLEQVETQLTRSQREA

>Pm\_MYH2
MGSIMHMGNMKFKQKPREEQAEADGTEDADKITYLLGINSAEFVKSLLQPRVRVGNDYVTKGQTVQQVYYGTGALSKAVYDRLFKWLVKRINETLSTKLQRNFFIGVLDIAGFEIFDFNSFEQLCINFTNEKLQQFFNHHMFILEQEEYKREGIDWEFIDFGLDLQACIELIEKPLGIMSILEEECMFPKATDMTFKEKLYTNHLGKSNNFIKPRPQIKRKFEAHFELIHYAGIVGYNIVGWLEKNKDPLNNSVVNLYKKSTMKVLATVWDTYLSPEEAMAGAKKGGGGGRRQKGGSFQTVSSLHRESLNRLMTNLRSTQPHFVRCIIPNEMKKPGYLDSQLTLHQLRCNGVLEGIRICRKGFPSRILYAEFKQRYRILNPNSIPDGQFVDSKKATEKLMASLELDTAQYRFGNTKIFFKAGMLGTLEDMRDERLTIIITRMQARARGKNMRIEFKKMLERKQACSLIQANIRAYLAVRNWEWMRLMFKIKPLLKSAETAKEREAIEKEMADAVENLDREKKRRQELEDSQVALIQEKNDLVLQLSAEQENLQDAEDRCEQLIRSKVDLEGKIKDLQERLEDEEEANNDMVSKKRKLEDECSELKKDIDDLELTLARVEKEKHATENKLKNMAEKLMTLEESLDKAHKEKKALQEAHQQTLDDLQAEEDKVNSLTKHKSKLEQQVDDLEASLEHEKKIRMELERTKRKQEGDIRLLQETIMDLENDRQRLEERIKKKEFEYNQLATKLEDEQALIAQLQRKIKELQARIEELEEELDAERSARAKVEKQRTELSRELEELSERLEESGGATSAQMELNKRREIEYSKLRREFEESNLAHEAMISTMRKKNADTLAELSEQVDNLQRVKQKLEKEKSEMKMEIDDLASNVEVVTKHKLSFEKMSRNLEDQLSETKSKNDEMQRELNEVNAKFARLSSEKGELSRFLEEKESLMNQYTRTRNSLQQQLEELKRQVEEEMKAARHDNDLLREQYEEEQEAKAELQRALSKANAEVAQWRNKYETDAIQRTEELEDAKKKLACRLQEAEEAVEXSRLQEAEEAVEAAQAKASSLEKTKIRLQGELEDVVVDLEKSNAAAAALDKKQRNFDKVLSDHKEKQEELRVDFEQSQKESRSLSTELFKMKNAYEEALEALETIKRENKNLQEEISDISDQLGEGGKSIHELEKAKRALEHERTELQGALEEAEGAVENEESKVLRLQVELAQVKQDFERRVHEKDEEIDNTRRAGQRSIESMQATLDAEGKARSEAVRIKKKMESDLNDLEMQLNHANRQAQDAVRQLKDGHAANKDLQIQYDEATRHNEDLEEQMSMVERRANLLMAELEEMRTSLEQAERGRKMAESELMEVSERSNLLHTQNTALINQKRKLEGELQNMQGDIEESIQEQRNAEEKAKKAILDAAMMAEELKKEQDQSSHLERMKKNMEQTVKDLQMRLDEAEQVALKGGRKQLQKLETRVRELENELDGEQRRSVDITKQLRKSERRIKEVSYQAEEDKKNLTRMQDLLDKLQIKVKTYKRQCEETEEQANLNLAKYRKLQHELDDAEERADVAESALNKLRAKARDGTSYANYGKKMREDKWNNHTAPGSVPDDEEISKSAVSIRSIREQKIERQKHREEQRQRRKKQEPAIMVATDPPRGGSAGKSRPSTASRREESLPLVGGSHNSNNKYNHATYINPALENDDQSVTTIKVAPSNNPISSVPDKPPVMQEYSSSDDGVDSMKRSDTERRMAEQGIQQSIDYDRDSEEEDIEGGMMPVGPRPSTARPNTANRRPPSATKNFDGKKVGWNSALPPASLNGGNLFETTRASGKIMSPVPTTVSIDRSKLLSTESGADDVFITADVFSPISQVFEQLPGSPSTPLPPDPTLNRSEETIAAPEKLADMELLDLDDDEIPDDKINTCSKSFTKSDKTGSRTVLRENWTCASYQLSDEEGQSLCDETTTIENLDGFDPGPRVSHEPCKVAARSPPSGQYVVESECRDLSHQADPVLDAIKNLQQLLTKTQARALASNKCSQVVLHMQNRILLEQKFTTDSPAAYEPNSEEELRDWQNISDICAYLSGLVLQCQLSTNKSACERHPLVNPSYRAATSVVQSILQCDVTISQLLLAIDVVLKQYGLESINCSQLATEKGKNRLVQEESRQHRKVTEDRPMSSGGRSQVPGMDLDDLESFCLQPAPQGYTIKCKISRDKKGLDRHAYPTYYLHYERDDGKKTFILAGRKRKRSKTSNYLISVDATDLSRGGESFIGKLRSNIMGTKFTVYDQGIKWGNPGIATDRSNLREELASICYETNVLGFKGPRKMTVIIPGMDMSHERVRFKPNHVSISYHSHTVPPPDRETILSRWQNKNMENLIELSNKTPVWNEETQSYVLNFRGRVTQASVKNFQIVHQSDPEYIVMQFGRVAEDVFTVDYNYPMNAVQAFAIALSSFDSKLACE\*

>Pm\_MYHE
MATFDYEAVQDAAPYLRMTHEKILENQTKKPDGKKYVWFPDKQNAYVVGELIKNEGGKCTIKSMDEGKEITVKEDDLQEMNPPRYEKCEDMANMTFLNEASVLNNLRSRYESFMIYTYSGLFCVTVNPYKMLPVYAPYVISAYKGKRRTEMPPHLYSIADNAYASMLMNRENQSMLITGESGAGKTVNTKKVIQYFALVAAFGGKQDDSKGTMEDQIVQCNPAMEAFGNAKTVRNDNSSRFGKFIRIHFGSTGMLASGDIEHYLLEKSRVIYQLEGERNYHIFYQIISGGKPELIDQLLVSKDPYEYRTISQGVVTVDNLDDSEELLLTDEAFRILGFSQEEISGIYRLMAGILHQQNMKFKNKQREEQAEPDGTEEADKVAYLYGLNSTDFIKYLCHPRVKVGNEFVTKGQSCSQVSYGLGALSKALFGRHFDWLVKLINQTLSTKLPRSFFIGVLDIAGFEIFDCNSFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIQWTFIDFGMDLAACIELIEKPLGIMSILEEECMFPKASDNSFKEKLYQNHLGKSKAFGKPTKKTKYEAHFELYHYAGTVGYNITGWLEKNKDPVNNSVVDLYKKASLKLMQTIWDGWVSPDEASGGGKGGKRKKGGSFNTVSSLHRQSLNNLMTNLRSTSPHFVRCLIPNEQKQPGMMESHLVLHQLRCNGVLEGIRICRKGFPNRIPYGDFKQRYRILNPNAAPEGQFMDSKKSSEKLLGSIDIDHESYKLGHTKVFFRAGMIGRLEEMRDNKLSSIFKLVQARMRGMIMRLEYQKMIERRQACRVIQSNLRAYFGMATWEWMKLMFKIKPLLKTAEAAKELEVLEKDYEECKVNLEKEVKRRKELEEMQVSFIQEKNDLLMQLQAQQDQIDDGEDRCDQLIKTKVELDGKIKELTERLEDEEELNNELVSKKRKLEDECSELKKDIDDLEITLAKVEKEKHATENKLKNLQEELATQDEQIAKLQKEKKALQEAHQQTLDDLQSEEDKVNSLTKQKSKLEQQVDDLEASLEQEKKLRIELERTKRKLEGDLRLTQETVMDLENDKQRLEEKLKKQEFEYSQLATKLEDEQALVSQLQKKIKELQARIEELEEELEAERAARAKVEKQRADLSRELEELSERLEEAGGATAAQIELNKRREAEFAKLRRELEESNLSHEATVSTLRKKHADTSAEMSEQIDNLQRVKQKLEKEKSEMKMEIDDLASNVESVTKSKLNYEKMSRNLEEQLNEAKMKNDNFTKEVNELNAAKARLSSENGEFGRQLEEREHLMAQLTRSKNSSSQQIDELKRVVEEETKAKAALAHAVQAARHDNDLLREQYEEEQEAKAELQRALSKANAEVAQWRNKYETDAIQRTEELEDAKKKLAIRLQDAEEQVEAMQAKASSLEKTKNRLQGEIEDLTIDLERSNSAAASLDKKQRNFDKVLAEHKQKHEEVQVELEQSQKESRSLSTELFKMKNAYEESLDALETVKRENKNLQEEIADLTDQLGEGGKSIHELEKAKRTLEHERNEMQAALEEAEGAIEGEESKVLRLQIELAQVKQEFERRVSEKEEEIDNQRRNQQRAIESMQTTLDSESKARQEAVRIKKKMEGDLNDLEIQLGHATRQASEAQKQAKSVQAHIKDLEMQVDEAQRHSEDLQEQTAVIERRGNLLTAEIEELRSALDQAERGRKLAETELLESSERSNLLHTQNTALINQKRKLEGELQTMQSEVEESVQEQRNAEEKAKKAIVDAATMAEELKKEQDLSSHLERMKKNMEQTVKDLQQRLDEAENIALKGGKKQVQKLETRIRELENELDSEQRRNGDSVKSQRKLERKLKEITYQGEEDKKNLTRIQDLVDKLQIKVKTYKRQAEEAEEQANTNLSKYRKLQHELDDAEERAEMAESALNKMRSKARDRKE\*

>Hs\_MYH7
MGDSEMAVFGAAAPYLRKSEKERLEAQTRPFDLKKDVFVPDDKQEFVKAKIVSREGGKVTAETEYGKTVTVKEDQVMQQNPPKFDKIEDMAMLTFLHEPAVLYNLKDRYGSWMIYTYSGLFCVTVNPYKWLPVYTPEVVAAYRGKKRSEAPPHIFSISDNAYQYMLTDRENQSILITGESGAGKTVNTKRVIQYFAVIAAIGDRSKKDQSPGKGTLEDQIIQANPALEAFGNAKTVRNDNSSRFGKFIRIHFGATGKLASADIETYLLEKSRVIFQLKAERDYHIFYQILSNKKPELLDMLLITNNPYDYAFISQGETTVASIDDAEELMATDNAFDVLGFTSEEKNSMYKLTGAIMHFGNMKFKLKQREEQAEPDGTEEADKSAYLMGLNSADLLKGLCHPRVKVGNEYVTKGQNVQQVIYATGALAKAVYERMFNWMVTRINATLETKQPRQYFIGVLDIAGFEIFDFNSFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWTFIDFGMDLQACIDLIEKPMGIMSILEEECMFKATDMTFKAKLFDNHLGKSANFQKPRNIKGKPEAHFSLIHYAGIVDYNIIGWLQKNKDPLNETVVGLYQKSSLKLLSTLFANYAGADAPIEKGKGKAKKGSSFQTVSALHRENLNKLMTNLRSTHPHFVRCIIPNETKSPGVMDNPLVMHQLRCNGVLEGIRICRKGFPNRILYGDFRQRYRILNPAAIPEGQFIDSRKGAEKLLSSLDIDHNQYKFGHTKVFFKAGLLGLLEEMRDERLSRIITRIQAQSRGVLARMEYKKLLERRDSLLVIQWNIRAFMGVKNWPWMKLYFKIKPLLKSAEREKEMASMKEEFTRLKEALEKSEARRKELEEKMVSLLQEKNDLQLQVQAEQDNLADAEERCDQLIKNKIQLEAKVKEMNERLEDEEEMNAELTAKKRKLEDECSELKRDIDDLELTLAKVEKEKHATENKVKNLTEEMAGLDEIIAKLTKEKKALQEAHQQALDDLQAEEDKVNTLTKAKVKLEQQVDDLEGSLEQEKKVRMDLERAKRKLEGDLKLTQESIMDLENDKQQLDERLKKKDFELNALNARIEDEQALGSQLQKKLKELQARIEELEEELEAERTARAKVEKLRSDLSRELEEISERLEEAGGATSVQIEMNKKREAEFQKMRRDLEEATLQHEATAAALRKKHADSVAELGEQIDNLQRVKQKLEKEKSEFKLELDDVTSNMEQIIKAKANLEKMCRTLEDQMNEHRSKAEETQRSVNDLTSQRAKLQTENGELSRQLDEKEALISQLTRGKLTYTQQLEDLKRQLEEEVKAKNALAHALQSARHDCDLLREQYEEETEAKAELQRVLSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQEAEEAVEAVNAKCSSLEKTKHRLQNEIEDLMVDVERSNAAAAALDKKQRNFDKILAEWKQKYEESQSELESSQKEARSLSTELFKLKNAYEESLEHLETFKRENKNLQEEISDLTEQLGSSGKTIHELEKVRKQLEAEKMELQSALEEAEASLEHEEGKILRAQLEFNQIKAEIERKLAEKDEEMEQAKRNHLRVVDSLQTSLDAETRSRNEALRVKKKMEGDLNEMEIQLSHANRMAAEAQKQVKSLQSLLKDTQIQLDDAVRANDDLKENIAIVERRNNLLQAELEELRAVVEQTERSRKLAEQELIETSERVQLLHSQNTSLINQKKKMDADLSQLQTEVEEAVQECRNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTIKDLQHRLDEAEQIALKGGKKQLQKLEARVRELENELEAEQKRNAESVKGMRKSERRIKELTYQTEEDRKNLLRLQDLVDKLQLKVKAYKRQAEEAEEQANTNLSKFRKVQHELDEAEERADIAESQVNKLRAKSRDIGTKGLNEE

>Hs\_MYH9
MAQQAADKYLYVDKNFINNPLAQADWAAKKLVWVPSDKSGFEPASLKEEVGEEAIVELVENGKKVKVNKDDIQKMNPPKFSKVEDMAELTCLNEASVLHNLKERYYSGLIYTYSGLFCVVINPYKNLPIYSEEIVEMYKGKKRHEMPPHIYAITDTAYRSMMQDREDQSILCTGESGAGKTENTKKVIQYLAYVASSHKSKKDQGELERQLLQANPILEAFGNAKTVKNDNSSRFGKFIRINFDVNGYIVGANIETYLLEKSRAIRQAKEERTFHIFYYLLSGAGEHLKTDLLLEPYNKYRFLSNGHVTIPGQQDKDMFQETMEAMRIMGIPEEEQMGLLRVISGVLQLGNIVFKKERNTDQASMPDNTAAQKVSHLLGINVTDFTRGILTPRIKVGRDYVQKAQTKEQADFAIEALAKATYERMFRWLVLRINKALDKTKRQGASFIGILDIAGFEIFDLNSFEQLCINYTNEKLQQLFNHTMFILEQEEYQREGIEWNFIDFGLDLQPCIDLIEKPAGPPGILALLDEECWFPKATDKSFVEKVMQEQGTHPKFQKPKQLKDKADFCIIHYAGKVDYKADEWLMKNMDPLNDNIATLLHQSSDKFVSELWKDVDRIIGLDQVAGMSETALPGAFKTRKGMFRTVGQLYKEQLAKLMATLRNTNPNFVRCIIPNHEKKAGKLDPHLVLDQLRCNGVLEGIRICRQGFPNRVVFQEFRQRYEILTPNSIPKGFMDGKQACVLMIKALELDSNLYRIGQSKVFFRAGVLAHLEEERDLKITDVIIGFQACCRGYLARKAFAKRQQQLTAMKVLQRNCAAYLKLRNWQWWRLFTKVKPLLQVSRQEEEMMAKEEELVKVREKQLAAENRLTEMETLQSQLMAEKLQLQEQLQAETELCAEAEELRARLTAKKQELEEICHDLEARVEEEEERCQHLQAEKKKMQQNIQELEEQLEEEESARQKLQLEKVTTEAKLKKLEEEQIILEDQNCKLAKEKKLLEDRIAEFTTNLTEEEEKSKSLAKLKNKHEAMITDLEERLRREEKQRQELEKTRRKLEGDSTDLSDQIAELQAQIAELKMQLAKKEEELQAALARVEEEAAQKNMALKKIRELESQISELQEDLESERASRNKAEKQKRDLGEELEALKTELEDTLDSTAAQQELRSKREQEVNILKKTLEEEAKTHEAQIQEMRQKHSQAVEELAEQLEQTKRVKANLEKAKQTLENERGELANEVKVLLQGKGDSEHKRKKVEAQLQELQVKFNEGERVRTELADKVTKLQVELDNVTGLLSQSDSKSSKLTKDFSALESQLQDTQELLQEENRQKLSLSTKLKQVEDEKNSFREQLEEEEEAKHNLEKQIATLHAQVADMKKKMEDSVGCLETAEEVKRKLQKDLEGLSQRHEEKVAAYDKLEKTKTRLQQELDDLLVDLDHQRQSACNLEKKQKKFDQLLAEEKTISAKYAEERDRAEAEAREKETKALSLARALEEAMEQKAELERLNKQFRTEMEDLMSSKDDVGKSVHELEKSKRALEQQVEEMKTQLEELEDELQATEDAKLRLEVNLQAMKAQFERDLQGRDEQSEEKKKQLVRQVREMEAELEDERKQRSMAVAARKKLEMDLKDLEAHIDSANKNRDEAIKQLRKLQAQMKDCMRELDDTRASREEILAQAKENEKKLKSMEAEMIQLQEELAAAERAKRQAQQERDELADEIANSSGKGALALEEKRRLEARIAQLEEELEEEQGNTELINDRLKKANLQIDQINTDLNLERSHAQKNENARQQLERQNKELKVKLQEMEGTVKSKYKASITALEAKIAQLEEQLDNETKERQAACKQVRRTEKKLKDVLLQVDDERRNAEQYKDQADKASTRLKQLKRQLEEAEEEAQRANASRRKLQRELEDATETADAMNREVSSLKNKLRRGDLPFVVPRRMARKGAGDGSDEEVDGKADGAEAKPAE

>Hs\_MYH6
MTDAQMADFGAAAQYLRKSEKERLEAQTRPFDIRTECFVPDDKEEFVKAKILSREGGKVIAETENGKTVTVKEDQVLQQNPPKFDKIEDMAMLTFLHEPAVLFNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYNAEVVAAYRGKKRSEAPPHIFSISDNAYQYMLTDRENQSILITGESGAGKTVNTKRVIQYFASIAAIGDRGKKDNANANKGTLEDQIIQANPALEAFGNAKTVRNDNSSRFGKFIRIHFGATGKLASADIETYLLEKSRVIFQLKAERNYHIFYQILSNKKPELLDMLLVTNNPYDYAFVSQGEVSVASIDDSEELMATDSAFDVLGFTSEEKAGVYKLTGAIMHYGNMKFKQKQREEQAEPDGTEDADKSAYLMGLNSADLLKGLCHPRVKVGNEYVTKGQSVQQVYYSIGALAKAVYEKMFNWMVTRINATLETKQPRQYFIGVLDIAGFEIFDFNSFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWTFIDFGMDLQACIDLIEKPMGIMSILEEECMFPKATDMTFKAKLYDNHLGKSNNFQKPRNIKGKQEAHFSLIHYAGTVDYNILGWLEKNKDLNETVVALYQKSSLKLMATLFSSYATADTGDSGKSKGGKKKGSSFQTVSALHRENLNKLMTNLRTTHPHFVRCIIPNERKAPGVMDNPLVMHQLRCNGVLEGIRICRKGFPNRILYGDFRQRYRILNPVAIPEGQFIDSRKGTEKLLSSLDIDHNQYKFGHTKVFFKAGLLGLLEEMRDERLSRIITRMQAQARGQLMRIEFKKIVERRDALLVIQWNIRAFMGVKNWPWMKLYFKIKPLLKSAETEKEMATMKEEFGRIKETLEKSEARRKELEEKMVSLLQEKNDLQLQVQAEQDNLNDAEERCDQLIKNKIQLEAKVKEMNERLEDEEEMNAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMAGLDEIIAKLTKEKKALQEAHQQALDDLQVEEDKVNSLSKSKVKLEQQVDDLEGSLEQEKKVRMDLERAKRKLEGDLKLTQESIMDLENDKLQLEEKLKKKEFDINQQNSKIEDEQVLALQLQKKLKENQARIEELEEELEAERTARAKVEKLRSDLSRELEEISERLEEAGGATSVQIEMNKKREAEFQKMRRDLEEATLQHEATAAALRKKHADSVAELGEQIDNLQRVKQKLEKEKSEFKLELDDVTSNMEQIIKAKANLEKVSRTLEDQANEYRVKLEEAQRSLNDFTTQRAKLQTENGELARQLEEKEALISQLTRGKLSYTQQMEDLKRQLEEEGKAKNALAHALQSARHDCDLLREQYEEETEAKAELQRVLSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQDAEEAVEAVNAKCSSLEKTKHRLQNEIEDLMVDVERSNAAAAALDKKQRNFDKILAEWKQKYEESQSELESSQKEARSLSTELFKLKNAYEESLEHLETFKRENKNLQEEISDLTEQLGEGGKNVHELEKVRKQLEVEKLELQSALEEAEASLEHEEGKILRAQLEFNQIKAEIERKLAEKDEEMEQAKRNHQRVVDSLQTSLDAETRSRNEVLRVKKKMEGDLNEMEIQLSHANRMAAEAQKQVKSLQSLLKDTQIQLDDAVRANDDLKENIAIVERRNNLLQAELEELRAVVEQTERSRKLAEQELIETSERVQLLHSQNTSLINQKKKMESDLTQLQSEVEEAVQECRNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTIKDLQHRLDEAEQIALKGGKKQLQKLEARVRELEGELEAEQKRNAESVKGMRKSERRIKELTYQTEEDKKNLLRLQDLVDKLQLKVKAYKRQAEEAEEQANTNLSKFRKVQHELDEAEERADIAESQVNKLRAKSRDIGAKQKMHDEE

>Hs\_MYH10
MAQRTGLEDPERYLFVDRAVIYNPATQADWTAKKLVWIPSERHGFEAASIKEERGDEVMVELAENGKKAMVNKDDIQKMNPPKFSKVEDMAELTCLNEASVLHNLKDRYYSGLIYTYSGLFCVVINPYKNLPIYSENIIEMYRGKKRHEMPPHIYAISESAYRCMLQDREDQSILCTGESGAGKTENTKKVIQYLAHVASSHKGRKDHNIPGELERQLLQANPILESFGNAKTVKNDNSSRFGKFIRINFDVTGYIVGANIETYLLEKSRAVRQAKDERTFHIFYQLLSGAGEHLKSDLLLEGFNNYRFLSNGYIPIPGQQDKDNFQETMEAMHIMGFSHEEILSMLKVVSSVLQFGNISFKKERNTDQASMPENTVAQKLCHLLGMNVMEFTRAILTPRIKVGRDYVQKAQTKEQADFAVEALAKATYERLFRWLVHRINKALDRTKRQGASFIGILDIAGFEIFELNSFEQLCINYTNEKLQQLFNHTMFILEQEEYQREGIEWNFIDFGLDLQPCIDLIERPANPPGVLALLDEECWFPKATDKTFVEKLVQEQGSHSKFQKPRQLKDKADFCIIHYAGKVDYKADEWLMKNMDPLNDNVATLLHQSSDRFVAELWKDVDRIVGLDQVTGMTETAFGSAYKTKKGMFRTVGQLYKESLTKLMATLRNTNPNFVRCIIPNHEKRAGKLDPHLVLDQLRCNGVLEGIRICRQGFPNRIVFQEFRQRYEILTPNAIPKGFMDGKQACERMIRALELDPNLYRIGQSKIFFRAGVLAHLEEERDLKITDIIIFFQAVCRGYLARKAFAKKQQQLSALKVLQRNCAAYLKLRHWQWWRVFTKVKPLLQVTRQEEELQAKDEELLKVKEKQTKVEGELEEMERKHQQLLEEKNILAEQLQAETELFAEAEEMRARLAAKKQELEEILHDLESRVEEEEERNQILQNEKKKMQAHIQDLEEQLDEEEGARQKLQLEKVTAEAKIKKMEEEILLLEDQNSKFIKEKKLMEDRIAECSSQLAEEEEKAKNLAKIRNKQEVMISDLEERLKKEEKTRQELEKAKRKLDGETTDLQDQIAELQAQIDELKLQLAKKEEELQGALARGDDETLHKNNALKVVRELQAQIAELQEDFESEKASRNKAEKQKRDLSEELEALKTELEDTLDTTAAQQELRTKREQEVAELKKALEEETKNHEAQIQDMRQRHATALEELSEQLEQAKRFKANLEKNKQGLETDNKELACEVKVLQQVKAESEHKRKKLDAQVQELHAKVSEGDRLRVELAEKASKLQNELDNVSTLLEEAEKKGIKFAKDAASLESQLQDTQELLQEETRQKLNLSSRIRQLEEEKNSLQEQQEEEEEARKNLEKQVLALQSQLADTKKKVDDDLGTIESLEEAKKKLLKDAEALSQRLEEKALAYDKLEKTKNRLQQELDDLTVDLDHQRQVASNLEKKQKKFDQLLAEEKSISARYAEERDRAEAEAREKETKALSLARALEEALEAKEEFERQNKQLRADMEDLMSSKDDVGKNVHELEKSKRALEQQVEEMRTQLEELEDELQATEDAKLRLEVNMQAMKAQFERDLQTRDEQNEEKKRLLIKQVRELEAELEDERKQRALAVASKKKMEIDLKDLEAQIEAANKARDEVIKQLRKLQAQMKDYQRELEEARASRDEIFAQSKESEKKLKSLEAEILQLQEELASSERARRHAEQERDELADEITNSASGKSALLDEKRRLEARIAQLEEELEEEQSNMELLNDRFRKTTLQVDTLNAELAAERSAAQKSDNARQQLERQNKELKAKLQELEGAVKSKFKATISALEAKIGQLEEQLEQEAKERAAANKLVRRTEKKLKEIFMQVEDERRHADQYKEQMEKANARMKQLKRQLEEAEEEATRANASRRKLQRELDDATEANEGLSREVSTLKNRLRRGGPISFSSSRSGRRQLHLEGASLELSDDDTESKTSDVNETQPPQSE

>Hs\_MYH3
MSSDTEMEVFGIAAPFLRKSEKERIEAQNQPFDAKTYCFVVDSKEEYAKGKIKSSQDGKVTVETEDNRTLVVKPEDVYAMNPPKFDRIEDMAMLTHLNEPAVLYNLKDRYTSWMIYTYSGLFCVTVNPYKWLPVYNPEVVEGYRGKKRQEAPPHIFSISDNAYQFMLTDRENQSILITGESGAGKTVNTKRVIQYFATIAATGDLAKKKDSKMKGTLEDQIISANPLLEAFGNAKTVRNDNSSRFGKFIRIHFGTTGKLASADIETYLLEKSRVTFQLKAERSYHIFYQILSNKKPELIELLLITTNPYDYPFISQGEILVASIDDAEELLATDSAIDILGFTPEEKSGLYKLTGAVMHYGNMKFKQKQREEQAEPDGTEVADKTAYLMGLNSSDLLKALCFPRVKVGNEYVTKGQTVDQVHHAVNALSKSVYEKLFLWMVTRINQQLDTKLPRQHFIGVLDIAGFEIFEYNSLEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWTFIDFGMDLAACIELIEKPMGIFSILEEECMFPKATDTSFKNKLYDQHLGKSNNFQKPKVVKGRAEAHFSLIHYAGTVDYSVSGWLEKNKDLNETVVGLYQKSSNRLLAHLYATFATADADSGKKKVAKKKGSSFQTVSALFRENLNKLMSNLRTTHPHFVRCIIPNETKTPGAMEHSLVLHQLRCNGVLEGIRICRKGFPNRILYGDFKQRYRVLNASAIPEGQFIDSKKACEKLLASIDIDHTQYKFGHTKVFFKAGLLGTLEEMRDDRLAKLITRTQAVCRGFLMRVEFQKMVQRRESIFCIQYNIRSFMNVKHWPWMKLFFKIKPLLKSAETEKEMATMKEEFQKTKDELAKSEAKRKELEEKLVTLVQEKNDLQLQVQAESENLLDAEERCDQLIKAKFQLEAKIKEVTERAEDEEEINAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEELSGLDETIAKLTREKKALQEAHQQALDDLQAEEDKVNSLNKTKSKLEQQVEDLESSLEQEKKLRVDLERNKRKLEGDLKLAQESILDLENDKQQLDERLKKKDFEYCQLQSKVEDEQTLGLQFQKKIKELQARIEELEEEIEAERATRAKTEKQRSDYARELEELSERLEEAGGVTSTQIELNKKREAEFLKLRRDLEEATLQHEAMVAALRKKHADSVAELGEQIDNLQRVKQKLEKEKSEFKLEIDDLSSSMESVSKSKANLEKICRTLEDQLSEARGKNEEIQRSLSELTTQKSRLQTEAGELSRQLEEKESIVSQLSRSKQAFTQQTEELKRQLEEENKAKNALAHALQSSRHDCDLLREQYEEEQEGKAELQRALSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQDSEEQVEAVNAKCASLEKTKQRLQGEVEDLMVDVERANSLAAALDKKQRNFDKVLAEWKTKCEESQAELEASLKESRSLSTELFKLKNAYEEALDQLETVKRENKNLEQEIADLTEQIAENGKTIHELEKSRKQIELEKADIQLALEEAEAALEHEEAKILRIQLELTQVKSEIDRKIAEKDEEIEQLKRNYQRTVETMQSALDAEVRSRNEAIRLKKKMEGDLNEIEIQLSHANRQAAETLKHLRSVQGQLKDTQLHLDDALRGQEDLKEQLAIVERRANLLQAEVEELRATLEQTERARKLAEQELLDSNERVQLLHTQNTSLIHTKKKLETDLMQLQSEVEDASRDARNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNLEQTVKDLQHRLDEAEQLALKGGKKQIQKLETRIRELEFELEGEQKKNTESVKGLRKYERRVKELTYQSEEDRKNVLRLQDLVDKLQVKVKSYKRQAEEADEQANAHLTKFRKAQHELEEAEERADIAESQVNKLRAKTRDFTSSRMVVHESEE

>Hs\_MYH14
MAAVTMSVPGRKAPPRPGPVPEAAQPFLFTPRGPSAGGGPGSGTSPQVEWTARRLVWVPSELHGFEAAALRDEGEEEAEVELAESGRRLRLPRDQIQRMNPPKFSKAEDMAELTCLNEASVLHNLRERYYSGLIYTYSGLFCVVINPYKQLPIYTEAIVEMYRGKKRHEVPPHVYAVTEGAYRSMLQDREDQSILCTGESGAGKTENTKKVIQYLAHVASSPKGRKEPGVPGELERQLLQANPILEAFGNAKTVKNDNSSRFGKFIRINFDVAGYIVGANIETYLLEKSRAIRQAKDECSFHIFYQLLGGAGEQLKADLLLEPCSHYRFLTNGPSSSPGQERELFQETLESLRVLGFSHEEIISMLRMVSAVLQFGNIALKRERNTDQATMPDNTAAQKLCRLLGLGVTDFSRALLTPRIKVGRDYVQKAQTKEQADFALEALAKATYERLFRWLVLRLNRALDRSPRQGASFLGILDIAGFEIFQLNSFEQLCINYTNEKLQQLFNHTMFVLEQEEYQREGIPWTFLDFGLDLQPCIDLIERPANPPGLLALLDEECWFPKATDKSFVEKVAQEQGGHPKFQRPRHLRDQADFSVLHYAGKVDYKANEWLMKNMDPLNDNVAALLHQSTDRLTAEIWKDVEGIVGLEQVSSLGDGPPGGRPRRGMFRTVGQLYKESLSRLMATLSNTNPSFVRCIVPNHEKRAGKLEPRLVLDQLRCNGVLEGIRICRQGFPNRILFQEFRQRYEILTPNAIPKGFMDGKQACEKMIQALELDPNLYRVGQSKIFFRAGVLAQLEEERDLKVTDIIVSFQAAARGYLARRAFQKRQQQQSALRVMQRNCAAYLKLRHWQWWRLFTKVKPLLQVTRQDEVLQARAQELQKVQELQQQSAREVGELQGRVAQLEEERARLAEQLRAEAELCAEAEETRGRLAARKQELELVVSELEARVGEEEECSRQMQTEKKRLQQHIQELEAHLEAEEGARQKLQLEKVTTEAKMKKFEEDLLLLEDQNSKLSKERKLLEDRLAEFSSQAAEEEEKVKSLNKLRLKYEATIADMEDRLRKEEKGRQELEKLKRRLDGESSELQEQMVEQQQRAEELRAQLGRKEEELQAALARAEDEGGARAQLLKSLREAQAALAEAQEDLESERVARTKAEKQRRDLGEELEALRGELEDTLDSTNAQQELRSKREQEVTELKKTLEEETRIHEAAVQELRQRHGQALGELAEQLEQARRGKGAWEKTRLALEAEVSELRAELSSLQTARQEGEQRRRRLELQLQEVQGRAGDGERARAEAAEKLQRAQAELENVSGALNEAESKTIRLSKELSSTEAQLHDAQELLQEETRAKLALGSRVRAMEAEAAGLREQLEEEAAARERAGRELQTAQAQLSEWRRRQEEEAGALEAGEEARRRAAREAEALTQRLAEKTETVDRLERGRRRLQQELDDATMDLEQQRQLVSTLEKKQRKFDQLLAEEKAAVLRAVEERERAEAEGREREARALSLTRALEEEQEAREELERQNRALRAELEALLSSKDDVGKSVHELERACRVAEQAANDLRAQVTELEDELTAAEDAKLRLEVTVQALKTQHERDLQGRDEAGEERRRQLAKQLRDAEVERDEERKQRTLAVAARKKLEGELEELKAQMASAGQGKEEAVKQLRKMQAQMKELWREVEETRTSREEIFSQNRESEKRLKGLEAEVLRLQEELAASDRARRQAQQDRDEMADEVANGNLSKAAILEEKRQLEGRLGQLEEELEEEQSNSELLNDRYRKLLLQVESLTTELSAERSFSAKAESGRQQLERQIQELRGRLGEEDAGARARHKMTIAALESKLAQAEEQLEQETRERILSGKLVRRAEKRLKEVVLQVEEERRVADQLRDQLEKGNLRVKQLKRQLEEAEEEASRAQAGRRRLQRELEDVTESAESMNREVTTLRNRLRRGPLTFTTRTVRQVFRLEEGVASDEEAEEAQPGSGPSPEPEGSPPAHPQ

>Hs\_MYH11
MAQKGQLSDDEKFLFVDKNFINSPVAQADWAAKRLVWVPSEKQGFEAASIKEEKGDEVVVELVENGKKVTVGKDDIQKMNPPKFSKVEDMAELTCLNEASVLHNLRERYFSGLIYTYSGLFCVVVNPYKHLPIYSEKIVDMYKGKKRHEMPPHIYAIADTAYRSMLQDREDQSILCTGESGAGKTENTKKVIQYLAVVASSHKGKKDTSITGELEKQLLQANPILEAFGNAKTVKNDNSSRFGKFIRINFDVTGYIVGANIETYLLEKSRAIRQARDERTFHIFYYMIAGAKEKMRSDLLLEGFNNYTFLSNGFVPIPAAQDDEMFQETVEAMAIMGFSEEEQLSILKVVSSVLQLGNIVFKKERNTDQASMPDNTAAQKVCHLMGINVTDFTRSILTPRIKVGRDVVQKAQTKEQADFAVEALAKATYERLFRWILTRVNKALDKTHRQGASFLGILDIAGFEIFEVNSFEQLCINYTNEKLQQLFNHTMFILEQEEYQREGIEWNFIDFGLDLQPCIELIERPNNPPGVLALLDEECWFPKATDKSFVEKLCTEQGSHPKFQKPKQLKDKTEFSIIHYAGKVDYNASAWLTKNMDPLNDNVTSLLNASSDKFVADLWKDVDRIVGLDQMAKMTESSLPSASKTKKGMFRTVGQLYKEQLGKLMTTLRNTTPNFVRCIIPNHEKRSGKLDAFLVLEQLRCNGVLEGIRICRQGFPNRIVFQEFRQRYEILAANAIPKGFMDGKQACILMIKALELDPNLYRIGQSKIFFRTGVLAHLEEERDLKITDVIMAFQAMCRGYLARKAFAKRQQQLTAMKVIQRNCAAYLKLRNWQWWRLFTKVKPLLQVTRQEEEMQAKEDELQKTKERQQKAENELKELEQKHSQLTEEKNLLQEQLQAETELYAEAEEMRVRLAAKKQELEEILHEMEARLEEEEDRGQQLQAERKKMAQQMLDLEEQLEEEEAARQKLQLEKVTAEAKIKKLEDEILVMDDQNNKLSKERKLLEERISDLTTNLAEEEEKAKNLTKLKNKHESMISELEVRLKKEEKSRQELEKLKRKLEGDASDFHEQIADLQAQIAELKMQLAKKEEELQAALARLDDEIAQKNNALKKIRELEGHISDLQEDLDSERAARNKAEKQKRDLGEELEALKTELEDTLDSTATQQELRAKREQEVTVLKKALDEETRSHEAQVQEMRQKHAQAVEELTEQLEQFKRAKANLDKNKQTLEKENADLAGELRVLGQAKQEVEHKKKKLEAQVQELQSKCSDGERARAELNDKVHKLQNEVESVTGMLNEAEGKAIKLAKDVASLSSQLQDTQELLQEETRQKLNVSTKLRQLEEERNSLQDQLDEEMEAKQNLERHISTLNIQLSDSKKKLQDFASTVEALEEGKKRFQKEIENLTQQYEEKAAAYDKLEKTKNRLQQELDDLVVDLDNQRQLVSNLEKKQRKFDQLLAEEKNISSKYADERDRAEAEAREKETKALSLARALEEALEAKEELERTNKMLKAEMEDLVSSKDDVGKNVHELEKSKRALETQMEEMKTQLEELEDELQATEDAKLRLEVNMQALKGQFERDLQARDEQNEEKRRQLQRQLHEYETELEDERKQRALAAAAKKKLEGDLKDLELQADSAIKGREEAIKQLRKLQAQMKDFQRELEDARASRDEIFATAKENEKKAKSLEADLMQLQEDLAAAERARKQADLEKEELAEELASSLSGRNALQDEKRRLEARIAQLEEELEEEQGNMEAMSDRVRKATQQAEQLSNELATERSTAQKNESARQQLERQNKELRSKLHEMEGAVKSKFKSTIAALEAKIAQLEEQVEQEAREKQAATKSLKQKDKKLKEILLQVEDERKMAEQYKEQAEKGNARVKQLKRQLEEAEEESQRINANRRKLQRELDEATESNEAMGREVNALKSKLRRGNETSFVPSRRSGGRRVIENADGSEEETDTRDADFNGTKASE

>Hs\_MYH8
MSASSDAEMAVFGEAAPYLRKSEKERIEAQNKPFDAKTSVFVAEPKESYVKSTIQSKEGGKVTVKTEGGATLTVREDQVFPMNPPKYDKIEDMAMMTHLHEPGVLYNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYKPEVVAAYRGKKRQEAPPHIFSISDNAYQFMLTDRENQSILITGESGAGKTVNTKRVIQYFATIAVTGEKKKDESGKMQGTLEDQIISANPLLEAFGNAKTVRNDNSSRFGKFIRIHFGTTGKLASADIETYLLEKSRVTFQLKAERSYHIFYQITSNKKPDLIEMLLITTNPYDYAFVSQGEITVPSIDDQEELMATDSAIDILGFTPEEKVSIYKLTGAVMHYGNMKFKQKQREEQAEPDGTEVADKAAYLQSLNSADLLKALCYPRVKVGNEYVTKGQTVQQVYNAVGALAKAVYEKMFLWMVTRINQQLDTKQPRQYFIGVLDIAGFEIFDFNSLEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWTFIDFGMDLAACIELIEKPLGIFSILEEECMFPKATDTSFKNKLYDQHLGKSANFQKPKVVKGKAEAHFSLIHYAGTVDYNITGWLDKNKDPLNDTVVGLYQKSAMKTLASLFSTYASAEADSSAKKGAKKKGSSFQTVSALFRENLNKLMTNLRSTHPHFVRCIIPNETKTPGAMEHELVLHQLRCNGVLEGIRICRKGFPSRILYGDFKQRYKVLNASAIPEGQFIDSKKASEKLLASIDIDHTQYKFGHTKVFFKAGLLGLLEEMRDEKLAQIITRTQAVCRGFLMRVEYQKMLQRREALFCIQYNVRAFMNVKHWPWMKLFFKIKLLKSAETEKEMATMKEEFQKTKDELAKSEAKRKELEEKMVTLLKEKNDLQLQVQSEADSLADAEERCEQLIKNKIQLEAKIKEVTERAEEEEEINAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMAGLDETIAKLSKEKKALQETHQQTLDDLQAEEDKVNILTKAKTKLEQQVDDLEGSLEQEKKLRMDLERAKRKLEGDLKLAQESTMDMENDKQQLDEKLEKKEFEISNLISKIEDEQAVEIQLQKKIKELQARIEELGEEIEAERASRAKAEKQRSDLSRELEEISERLEEAGGATSAQVELNKKREAEFQKLRRDLEEATLQHEAMVAALRKKHADSMAELGEQIDNLQRVKQKLEKEKSELKMETDDLSSNAEAISKAKGNLEKMCRSLEDQVSELKTKEEEQQRLINDLTAQRARLQTEAGEYSRQLDEKDALVSQLSRSKQASTQQIEELKHQLEEETKAKNALAHALQSSRHDCDLLREQYEEEQEGKAELQRALSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQEAEEHVEAVNAKCASLEKTKQRLQNEVEDLMLDVERSNAACAALDKKQRNFDKVLSEWKQKYEETQAELEASQKESRSLSTELFKVKNVYEESLDQLETLRRENKNLQQEISDLTEQIAEGGKQIHELEKIKKQVEQEKCEIQAALEEAEASLEHEEGKILRIQLELNQVKSEVDRKIAEKDEEIDQLKRNHTRVVETMQSTLDAEIRSRNDALRVKKKMEGDLNEMEIQLNHANRLAAESLRNYRNTQGILKETQLHLDDALRGQEDLKEQLAIVERRANLLQAEIEELWATLEQTERSRKIAEQELLDASERVQLLHTQNTSLINTKKKLENDVSQLQSEVEEVIQESRNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNLEQTVKDLQHRLDEAEQLALKGGKKQIQKLEARVRELEGEVENEQKRNAEAVKGLRKHERRVKELTYQTEEDRKNVLRLQDLVDKLQAKVKSYKRQAEEAEEQSNANLSKFRKLQHELEEAEERADIAESQVNKLRVKSREVHTKISAE

>Hs\_MYH2
MSSDSELAVFGEAAPFLRKSERERIEAQNRPFDAKTSVFVAEPKESFVKGTIQSREGGKVTVKTEGGATLTVKDDQVFPMNPPKYDKIEDMAMMTHLHEPAVLYNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYKPEVVTAYRGKKRQEAPPHIFSISDNAYQFMLTDRENQSILITGESGAGKTVNTKRVIQYFATIAVTGEKKKEEITSGKIQGTLEDQIISANPLLEAFGNAKTVRNDNSSRFGKFIRIHFGTTGKLASADIETYLLEKSRVVFQLKAERSYHIFYQITSNKKPELIEMLLITTNPYDYPFVSQGEISVASIDDQEELMATDSAIDILGFTNEEKVSIYKLTGAVMHYGNLKFKQKQREEQAEPDGTEVADKAAYLQSLNSADLLKALCYPRVKVGNEYVTKGQTVEQVSNAVGALAKAVYEKMFLWMVARINQQLDTKQPRQYFIGVLDIAGFEIFDFNSLEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWTFIDFGMDLAACIELIEKPMGIFSILEEECMFPKATDTSFKNKLYDQHLGKSANFQKPKVVKGKAEAHFALIHYAGVVDYNITGWLEKNKDPLNETVVGLYQKSAMKTLAQLFSGAQTAEGEGAGGGAKKGGKKKGSSFQTVSALFRENLNKLMTNLRSTHPHFVRCIIPNETKTPGAMEHELVLHQLRCNGVLEGIRICRKGFPSRILYADFKQRYKVLNASAIPEGQFIDSKKASEKLLASIDIDHTQYKFGHTKVFFKAGLLGLLEEMRDDKLAQLITRTQARCRGFLARVEYQRMVERREAIFCIQYNIRSFMNVKHWPWMKLFFKIKPLLKSAETEKEMATMKEEFQKIKDELAKSEAKRKELEEKMVTLLKEKNDLQLQVQAEAEGLADAEERCDQLIKTKIQLEAKIKEVTERAEDEEEINAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMAGLDETIAKLTKEKKALQEAHQQTLDDLQAEEDKVNTLTKAKIKLEQQVDDLEGSLEQEKKLRMDLERAKRKLEGDLKLAQESIMDIENEKQQLDEKLKKKEFEISNLQSKIEDEQALGIQLQKKIKELQARIEELEEEIEAERASRAKAEKQRSDLSRELEEISERLEEAGGATSAQIEMNKKREAEFQKMRRDLEEATLQHEATAATLRKKHADSVAELGEQIDNLQRVKQKLEKEKSEMKMEIDDLASNVETVSKAKGNLEKMCRTLEDQLSELKSKEEEQQRLINDLTAQRGRLQTESGEFSRQLDEKEALVSQLSRGKQAFTQQIEELKRQLEEEIKAKNALAHALQSSRHDCDLLREQYEEEQESKAELQRALSKANTEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQAAEEHVEAVNAKCASLEKTKQRLQNEVEDLMLDVERTNAACAALDKKQRNFDKILAEWKQKCEETHAELEASQKEARSLGTELFKIKNAYEESLDQLETLKRENKNLQQEISDLTEQIAEGGKRIHELEKIKKQVEQEKCELQAALEEAEASLEHEEGKILRIQLELNQVKSEVDRKIAEKDEEIDQLKRNHIRIVESMQSTLDAEIRSRNDAIRLKKKMEGDLNEMEIQLNHANRMAAEALRNYRNTQGILKDTQIHLDDALRSQEDLKEQLAMVERRANLLQAEIEELRATLEQTERSRKIAEQELLDASERVQLLHTQNTSLINTKKKLETDISQMQGEMEDILQEARNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTVKDLQLRLDEAEQLALKGGKKQIQKLEARVRELEGEVESEQKRNAEAVKGLRKHERRVKELTYQTEEDRKNILRLQDLVDKLQAKVKSYKRQAEEAEEQSNTNLAKFRKLQHELEEAEERADIAESQVNKLRVKSREVHTKVISEE

>Hs\_MYH4
MSSDSEMAIFGEAAPFLRKSEKERIEAQNKPFDAKTSVFVVDPKESYVKAIVQSREGGKVTAKTEAGATVTVKEDQVFSMNPPKYDKIEDMAMMTHLHEPAVLYNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYNPEVVTAYRGKKRQEAPPHIFSISDNAYQFMLTDRENQSILITGESGAGKTVNTKRVIQYFATIAVTGEKKKEEPASGKMQGTLEDQIISANPLLEAFGNAKTVRNDNSSRFGKFIRIHFGATGKLASADIETYLLEKSRVTFQLKAERSYHIFYQILSNKKPELIEMLLITTNPYDFAFVSQGEITVPSIDDQEELMATDSAVDILGFTADEKVAIYKLTGAVMHYGNMKFKQKQREEQAEPDGTEVADKAAYLTSLNSADLLKSLCYPRVKVGNEFVTKGQTVQQVYNAVGALAKAIYEKMFLWMVTRINQQLDTKQPRQYFIGVLDIAGFEIFDFNSLEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWEFIDFGMDLAACIELIEKPMGIFSILEEECMFPKATDTSFKNKLYEQHLGKSNNFQKPKPAKGKPEAHFSLVHYAGTVDYNIAGWLDKNKDPLNETVVGLYQKSAMKTLAFLFSGAQTAEAEGGGGKKGGKKKGSSFQTVSALFRENLNKLMTNLRSTHPHFVRCIIPNETKTPGAMEHELVLHQLRCNGVLEGIRICRKGFPSRILYADFKQRYKVLNASAIPEGQFIDSKKASEKLLGSIEIDHTQYKFGHTKVFFKAGLLGTLEEMRDEKLAQLITRTQAICRGFLMRVEFRKMMERRESIFCIQYNIRAFMNVKHWPWMKLYFKIKPLLKSAETEKEMANMKEEFEKTKEELAKTEAKRKELEEKMVTLMQEKNDLQLQVQAEADALADAEERCDQLIKTKIQLEAKIKEVTERAEDEEEINAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMAGLDETIAKLTKEKKALQEAHQQTLDDLQMEEDKVNTLTKAKTKLEQQVDDLEGSLEQEKKLCMDLERAKRKLEGDLKLAQESTMDTENDKQQLNEKLKKKEFEMSNLQGKIEDEQALAIQLQKKIKELQARIEELEEEIEAERASRAKAEKQRSDLSRELEEISERLEEAGGATSAQIEMNKKREAEFQKMRRDLEESTLQHEATAAALRKKHADSVAELGEQIDSLQRVKQKLEKEKSELKMEINDLASNMETVSKAKANFEKMCRTLEDQLSEIKTKEEEQQRLINELSAQKARLHTESGEFSRQLDEKDAMVSQLSRGKQAFTQQIEELKRQLEEETKAKSTLAHALQSARHDCDLLREQYEEEQEAKAELQRGMSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQDAEEHVEAVNSKCASLEKTKQRLQNEVEDLMIDVERSNAACIALDKKQRNFDKVLAEWKQKYEETQAELEASQKESRSLSTELFKVKNAYEESLDHLETLKRENKNLQQEISDLTEQIAEGGKHIHELEKVKKQLDHEKSELQTSLEEAEASLEHEEGKILRIQLELNQVKSEIDRKIAEKDEELDQLKRNHLRVVESMQSTLDAEIRSRNDALRIKKKMEGDLNEMEIQLNHANRQAAEALRNLRNTQGILKDTQLHLDDAIRGQDDLKEQLAMVERRANLMQAEVEELRASLERTERGRKMAEQELLDASERVQLLHTQNTSLINTKKKLETDISQIQGEMEDIVQEARNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTVKDLQLRLDEAEQLALKGGKKQIQKLEARVRELESEVESEQKHNVEAVKGLRKHERRVKELTYQTEEDRKNILRLQDLVDKLQTKVKAYKRQAEEAEEQSNVNLAKFRKLQHELEEAKERADIAESQVNKLRVKSREVHTKVISEE

>Hs\_MYH1
MSSDSEMAIFGEAAPFLRKSERERIEAQNKPFDAKTSVFVVDPKESFVKATVQSREGGKVTAKTEAGATVTVKDDQVFPMNPPKYDKIEDMAMMTHLHEPAVLYNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYNAEVVTAYRGKKRQEAPPHIFSISDNAYQFMLTDRENQSILITGESGAGKTVNTKRVIQYFATIAVTGEKKKEEVTSGKMQGTLEDQIISANPLLEAFGNAKTVRNDNSSRFGKFIRIHFGTTGKLASADIETYLLEKSRVTFQLKAERSYHIFYQIMSNKKPDLIEMLLITTNPYDYAFVSQGEITVPSIDDQEELMATDSAIEILGFTSDERVSIYKLTGAVMHYGNMKFKQKQREEQAEPDGTEVADKAAYLQNLNSADLLKALCYPRVKVGNEYVTKGQTVQQVYNAVGALAKAVYDKMFLWMVTRINQQLDTKQPRQYFIGVLDIAGFEIFDFNSLEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWTFIDFGMDLAACIELIEKPMGIFSILEEECMFPKATDTSFKNKLYEQHLGKSNNFQKPKPAKGKPEAHFSLIHYAGTVDYNIAGWLDKNKDPLNETVVGLYQKSAMKTLALLFVGATGAEAEAGGGKKGGKKKGSSFQTVSALFRENLNKLMTNLRSTHPHFVRCIIPNETKTPGAMEHELVLHQLRCNGVLEGIRICRKGFPSRILYADFKQRYKVLNASAIPEGQFIDSKKASEKLLGSIDIDHTQYKFGHTKVFFKAGLLGLLEEMRDEKLAQLITRTQAMCRGFLARVEYQKMVERRESIFCIQYNVRAFMNVKHWPWMKLYFKIKPLLKSAETEKEMANMKEEFEKTKEELAKTEAKRKELEEKMVTLMQEKNDLQLQVQAEADSLADAEERCDQLIKTKIQLEAKIKEVTERAEDEEEINAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMAGLDETIAKLTKEKKALQEAHQQTLDDLQAEEDKVNTLTKAKIKLEQQVDDLEGSLEQEKKIRMDLERAKRKLEGDLKLAQESTMDIENDKQQLDEKLKKKEFEMSGLQSKIEDEQALGMQLQKKIKELQARIEELEEEIEAERASRAKAEKQRSDLSRELEEISERLEEAGGATSAQIEMNKKREAEFQKMRRDLEEATLQHEATAATLRKKHADSVAELGEQIDNLQRVKQKLEKEKSEMKMEIDDLASNMETVSKAKGNLEKMCRALEDQLSEIKTKEEEQQRLINDLTAQRARLQTESGEYSRQLDEKDTLVSQLSRGKQAFTQQIEELKRQLEEEIKAKSALAHALQSSRHDCDLLREQYEEEQEAKAELQRAMSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQDAEEHVEAVNAKCASLEKTKQRLQNEVEDLMIDVERTNAACAALDKKQRNFDKILAEWKQKCEETHAELEASQKESRSLSTELFKIKNAYEESLDQLETLKRENKNLQQEISDLTEQIAEGGKRIHELEKIKKQVEQEKSELQAALEEAEASLEHEEGKILRIQLELNQVKSEVDRKIAEKDEEIDQMKRNHIRIVESMQSTLDAEIRSRNDAIRLKKKMEGDLNEMEIQLNHANRMAAEALRNYRNTQAILKDTQLHLDDALRSQEDLKEQLAMVERRANLLQAEIEELRATLEQTERSRKIAEQELLDASERVQLLHTQNTSLINTKKKLETDISQIQGEMEDIIQEARNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNLEQTVKDLQHRLDEAEQLALKGGKKQIQKLEARVRELEGEVESEQKRNVEAVKGLRKHERKVKELTYQTEEDRKNILRLQDLVDKLQAKVKSYKRQAEEAEEQSNVNLSKFRRIQHELEEAEERADIAESQVNKLRVKSREVHTKIISEE

>Hs\_MYH7B
MMDVSELGESARYLRQGYQEMTKVHTIPWDGKKRVWVPDEQDAYVEAEVKSEATGGRVTVETKDQKVLMVREAELQPMNPPRFDLLEDMAMMTHLNEASVLHNLRQRYARWMIYTYSGLFCVTINPYKWLPVYTASVVAAYKGKRRSDSPPHIYAVADNAYNDMLRNRDNQSMLITGESGAGKTVNTKRVIQYFAIVAALGDGPGKKAQFLATKTGGTLEDQIIEANPAMEAFGNAKTLRNDNSSRFGKFIRIHFGPSGKLASADIDSYLLEKSRVIFQLPGERSYHVYYQILSGRKPELQDMLLLSMNPYDYHFCSQGVITVDNMNDGEELIATDHAMDILGFSVDEKCACYKIVGALLHFGNMKFKQKQREEQAEADGTESADKAAYLMGVSSGDLLKGLLHPRVRVGNEYVTKGQSVEQVVFAVGALAKATYDRLFRWLVSRINQTLDTKLPRQFFIGVLDIAGFEIFEFNSFEQLCINFTNEKLQQFFNQHMFVLEQEEYKREGIDWVFIDFGLDLQPCIDLIEKPLGILSILEEECMFPKASDASFRAKLYDNHAGKSPNFQQPRPDKKRKYQAHFEVVHYAGVVPYSIVGWLEKNKDPLNETVVPIFQKSQNRLLATLYENYAGSCSTEPPKSGVKEKRKKAASFQTVSQLHKENLNKLMTNLRATQPHFVRCIVPNENKTPGVMDAFLVLHQLRCNGVLEGIRICRQGFPNRLLYTDFRQRYRILNPSAIPDDTFMDSRKATEKLLGSLDLDHTQYQFGHTKVFFKAGLLGVLEELRDQRLAKVLTLLQARSRGRLMRLEYQRLLGGRDALFTIQWNIRAFNAVKNWSWMKLFFKMKPLLRSAQAEEELAALRAELRGLRGALAAAEAKRQELEETHVSITQEKNDLALQLQAEQDNLADAEERCHLLIKSKVQLEGKVKELSERLEDEEEVNADLAARRRKLEDECTELKKDIDDLKLTLAKAEKEKQATENKVKNLTEEMAALDESVARLTKEKKALQEAHQQALGDLQAEEDRVSALTKAKLRLEQQVEDLECSLEQEKKLRMDTERAKRKLEGDLKLTQESVADAAQDKQQLEEKLKKKDSELSQLSLRVEDEQLLGAQMQKKIKELQARAEELEEELEAERAARARVEKQRAEAARELEELSERLEEAGGASAGQREGCRKREAELGRLRRELEEAALRHEATVAALRRKQAEGAAELGEQVDSLQRVRQKLEKEKSELRMEVDDLAANVETLTRAKASAEKLCRTYEDQLSEAKIKVEELQRQLADASTQRGRLQTESGELSRLLEEKECLISQLSRGKALAAQSLEELRRQLEEESKAKSALAHAVQALRHDCDLLREQHEEEAEAQAELQRLLSKANAEVAQWRSKYEADAIQRTEELEEAKKKLALRLQEAEEGVEAANAKCSSLEKAKLRLQTESEDVTLELERATSAAAALDKKQRHLERALEERRRQEEEMQRELEAAQRESRGLGTELFRLRHGHEEALEALETLKRENKNLQEEISDLTDQVSLSGKSIQELEKTKKALEGEKSEIQAALEEAEGALELEETKTLRIQLELSQVKAEVDRKLAEKDEECANLRRNHQRAVESLQASLDAETRARNEALRLKKKMEGDLNDLELQLGHATRQATEAQAATRLMQAQLKEEQAGRDEEQRLAAELHEQAQALERRASLLAAELEELRAALEQGERSRRLAEQELLEATERLNLLHSQNTGLLNQKKKLEADLAQLSGEVEEAAQERREAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKTLEQTVRELQARLEEAEQAALRGGKKQVQKLEAKVRELEAELDAEQKKHAEALKGVRKHERRVKELAYQAEEDRKNLARMQDLVDKLQSKVKSYKRQFEEAEQQANTNLAKYRKAQHELDDAEERADMAETQANKLRARTRDALGPKHKE

>Hs\_MYH13
MSSDAEMAIFGEAAPYLRKPEKERIEAQNRPFDSKKACFVADNKEMYVKGMIQTRENDKVIVKTLDDRMLTLNNDQVFPMNPPKFDKIEDMAMMTHLHEPAVLYNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYKPEVVAAYRGKKRQEAPPHIFSISDNAYQFMLTDRDNQSILITGESGAGKTVNTKRVIQYFATIAVTGDKKKETQPGKMQGTLEDQIIQANPLLEAFGNAKTVRNDNSSRFGKFIRIHFGATGKLASADIETYLLEKSRVTFQLSSERSYHIFYQIMSNKKPELIDLLLISTNPFDFPFVSQGEVTVASIDDSEELLATDNAIDILGFSSEEKVGIYKLTGAVMHYGNMKFKQKQREEQAEPDGTEVADKAGYLMGLNSAEMLKGLCCPRVKVGNEYVTKGQNVQQVTNSVGALAKAVYEKMFLWMVTRINQQLDTKQPRQYFIGVLDIAGFEIFDFNSLEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWEFIDFGMDLAACIELIEKPMGIFSILEEECMFPKATDTSFKNKLYDQHLGKSNNFQKPKPAKGKAEAHFSLVHYAGTVDYNIAGWLDKNKDPLNETVVGLYQKSSLKLLSFLFSNYAGAETGDSGGSKKGGKKKGSSFQTVSAVFRENLNKLMTNLRSTHPHFVRCLIPNETKTPGVMDHYLVMHQLRCNGVLEGIRICRKGFPSRILYADFKQRYRILNASAIPEGQFIDSKNASEKLLNSIDVDREQFRFGNTKVFFKAGLLGLLEEMRDEKLVTLMTSTQAVCRGYLMRVEFKKMMERRDSIFCIQYNIRSFMNVKHWPWMNLFFKIKPLLKSAEAEKEMATMKEDFERTKEELARSEARRKELEEKMVSLLQEKNDLQLQVQSETENLMDAEERCEGLIKSKILLEAKVKELTERLEEEEEMNSELVAKKRNLEDKCSSLKRDIDDLELTLTKVEKEKHATENKVKNLSEEMTALEENISKLTKEKKSLQEAHQQTLDDLQVEEDKVNGLIKINAKLEQQTDDLEGSLEQEKKLRADLERAKRKLEGDLKMSQESIMDLENDKQQIEEKLKKKEFELSQLQAKIDDEQVHSLQFQKKIKELQARIEELEEEIEAEHTLRAKIEKQRSDLARELEEISERLEEASGATSAQIEMNKKREAEFQKMRRDLEEATLQHEATAATLRKKQADSVAELGEQIDNLQRVKQKLEKEKSELKMEIDDMASNIEALSKSKSNIERTCRTVEDQFSEIKAKDEQQTQLIHDLNMQKARLQTQNGELSHRVEEKESLISQLTKSKQALTQQLEELKRQMEEETKAKNAMAHALQSSRHDCDLLREQYEEEQEAKAELQRALSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQEAEENTETANSKCASLEKTKQRLQGEVEDLMRDLERSHTACATLDKKQRNFDKVLAEWKQKLDESQAELEAAQKESRSLSTELFKMRNAYEEVVDQLETLRRENKNLQEEISDLTEQIAETGKNLQEAEKTKKLVEQEKSDLQVALEEVEGSLEHEESKILRVQLELSQVKSELDRKVIEKDEEIEQLKRNSQRAAEALQSVLDAEIRSRNDALRLKKKMEGDLNEMEIQLGHSNRQMAETQKHLRTVQGQLKDSQLHLDDALRSNEDLKEQLAIVERRNGLLLEELEEMKVALEQTERTRRLSEQELLDASDRVQLLHSQNTSLINTKKKLEADIAQCQAEVENSIQESRNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNLEQTVKDLQHRLDEAEQLALKGGKKQIQKLENRVRELENELDVEQKRGAEALKGAHKYERKVKEMTYQAEEDHKNILRLQDLVDKLQAKVKSYKRQAEEAEEQANTQLSRCRRVQHELEEAAERADIAESQVNKLRAKSRDVGSQKMEE

>Hs\_Myh15 MVESCLLTFRAFFWWIALIKMDLSDLGEAAAFLRRSEAELLLLQATALDGKKKCWIPDGENAYIEAEVKGSEDDGTVIVETADGESLSIKEDKIQQMNPPEFEMIEDMAMLTHLNEASVLHTLKRRYGQWMIYTYSGLFCVTINPYKWLPVYQKEVMAAYKGKRRSEAPPHIFAVANNAFQDMLHNRENQSILFTGESGAGKTVNSKHIIQYFATIAAMIESRKKQGALEDQIMQANTILEAFGNAKTLRNDNSSRFGKFIRMHFGARGMLSSVDIDIYLLEKSRVIFQQAGERNYHIFYQILSGQKELHDLLLVSANPSDFHFCSCGAVTVESLDDAEELLATEQAMDILGFLPDEKYGCYKLTGAIMHFGNMKFKQKPREEQLEADGTENADKAAFLMGINSSELVKCLIHPRIKVGNEYVTRGQTIEQVTCAVGALSKSMYERMFKWLVARINRALDAKLSRQFFIGILDITGFEILEYNSLEQLCINFTNEKLQQFFNWHMFVLEQEEYKKESIEWVSIGFGLDLQACIDLIEKPMGILSILEEECMFPKATDLTFKTKLFDNHFGKSVHLQKPKPDKKKFEAHFELVHYAGVVPYNISGWLEKNKDLLNETVVAVFQKSSNRLLASLFENYMSTDSAIPFGEKKRKKGASFQTVASLHKENLNKLMTNLKSTAPHFVRCINPNVNKIPGILDPYLVLQQLRCNGVLEGTRICREGFPNRLQYADFKQRYCILNPRTFPKSKFVSSRKAAEELLGSLEIDHTQYRFGITKVFFKAGFLGQLEAIRDERLSKVFTLFQARAQGKLMRIKFQKILEERDALILIQWNIRAFMAVKNWPWMRLFFKIKPLVKSSEVGEEVAGLKEECAQLQKALEKSEFQREELKAKQVSLTQEKNDLILQLQAEQETLANVEEQCEWLIKSKIQLEARVKELSERVEEEEEINSELTARGRKLEDECFELKKEIDDLETMLVKSEKEKRTTEHKVKNLTEEVEFLNEDISKLNRAAKVVQEAHQQTLDDLHMEEEKLSSLSKANLKLEQQVDELEGALEQERKARMNCERELHKLEGNLKLNRESMENLESSQRHLAEELRKKELELSQMNSKVENEKGLVAQLQKTVKELQTQIKDLKEKLEAERTTRAKMERERADLTQDLADLNERLEEVGGSSLAQLEITKKQETKFQKLHRDMEEATLHFETTSASLKKRHADSLAELEGQVENLQQVKQKLEKDKSDLQLEVDDLLTRVEQMTRAKANAEKLCTLYEERLHEATAKLDKVTQLANDLAAQKTKLWSESGEFLRRLEEKEALINQLSREKSNFTRQIEDLRGQLEKETKSQSALAHALQKAQRDCDLLREQYEEEQEVKAELHRTLSKVNAEMVQWRMKYENNVIQRTEDLEDAKKELAIRLQEAAEAMGVANARNASLERARHQLQLELGDALSDLGKVRSAAARLDQKQLQSGKALADWKQKHEESQALLDASQKEVQALSTELLKLKNTYEESIVGQETLRRENKNLQEEISNLTNQVREGTKNLTEMEKVKKLIEEEKTEVQVTLEETEGALERNESKILHFQLELLEAKAELERKLSEKDEEIENFRRKQQCTIDSLQSSLDSEAKSRIEVTRLKKKMEEDLNEMELQLSCANRQVSEATKSLGQLQIQIKDLQMQLDDSTQLNSDLKEQVAVAERRNSLLQSELEDLRSLQEQTERGRRLSEEELLEATERINLFYTQNTSLLSQKKKLEADVARMQKEAEEVVQECQNAEEKAKKAAIEAANLSEELKKKQDTIAHLERTRENMEQTITDLQKRLAEAEQMALMGSRKQIQKLESRVRELEGELEGEIRRSAEAQRGARRLERCIKELTYQAEEDKKNLSRMQTQMDKLQLKVQNYKQQVEVAETQANQYLSKYKKQQHELNEVKERAEVAESQVNKLKIKAREFGKKVQEE

>Mm\_MYH10
MAQRTGLEDPERYLFVDRAVIYNPATQADWTAKKLVWIPSERHGFEAASIKEERGDEVMVELAENGKKAMVNKDDIQKMNPPKFSKVEDMAELTCLNEASVLHNLKDRYYSGLIYTYSGLFCVVINPYKNLPIYSENIIEMYRGKKRHEMPPHIYAISESAYRCMLQDREDQSILCTGESGAGKTENTKKVIQYLAHVASSHKGRKDHNIPGELERQLLQANPILESFGNAKTVKNDNSSRFGKFIRINFDVTGYIVGANIETYLLEKSRAVRQAKDERTFHIFYQLLSGAGEHLKSDLLLEGFNNYRFLSNGYIPIPGQQDKDNFQETMEAMHIMGFSHEEILSMLKVVSSVLQFGNISFKKERNTDQASMPENTVAQKLCHLLGMNVMEFTRAILTPRIKVGRDYVQKAQTKEQADFAVEALAKATYERLFRWLVHRINKALDRTKRQGASFIGILDIAGFEIFELNSFEQLCINYTNEKLQQLFNHTMFILEQEEYQREGIEWNFIDFGLDLQPCIDLIERPANPPGVLALLDEECWFPKATDKTFVEKLVQEQGSHSKFQKPRQLKDKADFCIIHYAGKVDYKADEWLMKNMDPLNDNVATLLHQSSDRFVAELWKDVDRIVGLDQVTGMTETAFGSAYKTKKGMFRTVGQLYKESLTKLMATLRNTNPNFVRCIIPNHEKRAGKLDPHLVLDQLRCNGVLEGIRICRQGFPNRIVFQEFRQRYEILTPNAIPKGFMDGKQACERMIRALELDPNLYRIGQSKIFFRAGVLAHLEEERDLKITDIIIFFQAVCRGYLARKAFAKKQQQLSALKVLQRNCAAYLKLRHWQWWRVFTKVKPLLQVTRQEEELQAKDEELLKVKEKQTKVEGELEEMERKHQQLLEEKNILAEQLQAETELFAEAEEMRARLAAKKQELEEILHDLESRVEEEEERNQILQNEKKKMQAHIQDLEEQLDEEEGARQKLQLEKVTAEAKIKKMEEEVLLLEDQNSKFIKEKKLMEDRIAECSSQLAEEEEKAKNLAKIRNKQEVMISDLEERLKKEEKTRQELEKAKRKLDGETTDLQDQIAELQAQVDELKVQLTKKEEELQGALARGDDETLHKNNALKVARELQAQIAELQEDFESEKASRNKAEKQKRDLSEELEALKTELEDTLDTTAAQQELRTKREQEVAELKKALEDETKNHEAQIQDMRQRHATALEELSEQLEQAKRFKANLEKNKQGLETDNKELACEVKVLQQVKAESEHKRKKLDAQVQELHAKVSEGDRLRVELAEKANKLQNELDNVSTLLEEAEKKGIKFAKDAAGLESQLQDTQELLQEETRQKLNLSSRIRQLEEEKNSLQEQQEEEEEARKNLEKQVLALQSQLADTKKKVDDDLGTIESLEEAKKKLLKDVEALSQRLEEKVLAYDKLEKTKNRLQQELDDLTVDLDHQRQIVSNLEKKQKKFDQLLAEEKGISARYAEERDRAEAEAREKETKALSLARALEEALEAKEEFERQNKQLRADMEDLMSSKDDVGKNVHELEKSKRALEQQVEEMRTQLEELEDELQATEDAKLRLEVNMQAMKAQFERDLQTRDEQNEEKKRLLLKQVRELEAELEDERKQRALAVASKKKMEIDLKDLEAQIEAANKARDEVIKQLRKLQAQMKDYQRELEEARASRDEIFAQSKESEKKLKSLEAEILQLQEELASSERARRHAEQERDELADEIANSASGKSALLDEKRRLEARIAQLEEELEEEQSNMELLNDRFRKTTLQVDTLNTELAAERSAAQKSDNARQQLERQNKELKAKLQELEGAVKSKFKATISALEAKIGQLEEQLEQEAKERAAANKLVRRTEKKLKEIFMQVEDERRHADQYKEQMEKANARMKQLKRQLEEAEEEATRANASRRKLQRELDDATEANEGLSREVSTLKNRLRRGGPISFSSSRSGRRQLHIEGASLELSDDDTESKTSDVNDTQPPQSE

>Ms\_MYH9
MAQQAADKYLYVDKNFINNPLAQADWAAKKLVWVPSSKNGFEPASLKEEVGEEAIVELVENGKKVKVNKDDIQKMNPPKFSKVEDMAELTCLNEASVLHNLKERYYSGLIYTYSGLFCVVINPYKNLPIYSEEIVEMYKGKKRHEMPPHIYAITDTAYRSMMQDREDQSILCTGESGAGKTENTKKVIQYLAHVASSHKSKKDQGELERQLLQANPILEAFGNAKTVKNDNSSRFGKFIRINFDVNGYIVGANIETYLLEKSRAIRQAKEERTFHIFYYLLSGAGEHLKTDLLLEPYNKYRFLSNGHVTIPGQQDKDMFQETMEAMRIMGIPEDEQMGLLRVISGVLQLGNIAFKKERNTDQASMPDNTAAQKVSHLLGINVTDFTRGILTPRIKVGRDYVQKAQTKEQADFAIEALAKATYERMFRWLVLRINKALDKTKRQGASFIGILDIAGFEIFDLNSFEQLCINYTNEKLQQLFNHTMFILEQEEYQREGIEWNFIDFGLDLQPCIDLIEKPAGPPGILALLDEECWFPKATDKSFVEKVVQEQGTHPKFQKPKQLKDKADFCIIHYAGKVDYKADEWLMKNMDPLNDNIATLLHQSSDKFVSELWKDVDRIIGLDQVAGMSETALPGAFKTRKGMFRTVGQLYKEQLAKLMATLRNTNPNFVRCIIPNHEKKAGKLDPHLVLDQLRCNGVLEGIRICRQGFPNRVVFQEFRQRYEILTPNSIPKGFMDGKQACVLMIKALELDSNLYRIGQSKVFFRAGVLAHLEEERDLKITDVIIGFQACCRGYLARKAFAKRQQQLTAMKVLQRNCAAYLRLRNWQWWRLFTKVKPLLNSIRHEDELLAKEAELTKVREKHLAAENRLTEMETMQSQLMAEKLQLQEQLQAETELCAEAEELRARLTAKKQELEEICHDLEARVEEEEERCQYLQAEKKKMQQNIQELEEQLEEEESARQKLQLEKVTTEAKLKKLEEDQIIMEDQNCKLAKEKKLLEDRVAEFTTNLMEEEEKSKSLAKLKNKHEAMITDLEERLRREEKQRQELEKTRRKLEGDSTDLSDQIAELQAQIAELKMQLAKKEEELQAALARVEEEAAQKNMALKKIRELETQISELQEDLESERASRNKAEKQKRDLGEELEALKTELEDTLDSTAAQQELRSKREQEVSILKKTLEDEAKTHEAQIQEMRQKHSQAVEELADQLEQTKRVKATLEKAKQTLENERGELANEVKALLQGKGDSEHKRKKVEAQLQELQVKFSEGERVRTELADKVTKLQVELDSVTGLLSQSDSKSSKLTKDFSALESQLQDTQELLQEENRQKLSLSTKLKQMEDEKNSFREQLEEEEEAKRNLEKQIATLHAQVTDMKKKMEDGVGCLETAEEAKRRLQKDLEGLSQRLEEKVAAYDKLEKTKTRLQQELDDLLVDLDHQRQSVSNLEKKQKKFDQLLAEEKTISAKYAEERDRAEAEAREKETKALSLARALEEAMEQKAELERLNKQFRTEMEDLMSSKDDVGKSVHELEKSKRALEQQVEEMKTQLEELEDELQATEDAKLRLEVNLQAMKAQFERDLQGRDEQSEEKKKQLVRQVREMEAELEDERKQRSMAMAARKKLEMDLKDLEAHIDTANKNREEAIKQLRKLQAQMKDCMRELDDTRASREEILAQAKENEKKLKSMEAEMIQLQEELAAAERAKRQAQQERDELADEIANSSGKGALALEEKRRLEARIAQLEEELEEEQGNTELINDRLKKANLQIDQINTDLNLERSHAQKNENARQQLERQNKELKAKLQEMESAVKSKYKASIAALEAKIAQLEEQLDNETKERQAASKQVRRTEKKLKDVLLQVEDERRNAEQFKDQADKASTRLKQLKRQLEEAEEEAQRANASRRKLQRELEDATETADAMNREVSSLKNKLRRGDLPFVVTRRIVRKGTGDCSDEEVDGKADGADAKAAE

>Mm\_Myh6
MTDAQMADFGAAAQYLRKSEKERLEAQTRPFDIRTECFVPDDKEEYVKAKVVSREGGKVTAETENGKTVTIKEDQVMQQNPPKFDKIEDMAMLTFLHEPAVLYNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYNAEVVAAYRGKKRSEAPPHIFSISDNAYQYMLTDRENQSILITGESGAGKTVNTKRVIQYFASIAAIGDRSKKENPNANKGTLEDQIIQANPALEAFGNAKTVRNDNSSRFGKFIRIHFGATGKLASADIETYLLEKSRVIFQLKAERNYHIFYQILSNKKPELLDMLLVTNNPYDYAFVSQGEVSVASIDDSEELLATDSAFDVLSFTAEEKAGVYKLTGAIMHYGNMKFKQKQREEQAEPDGTEDADKSAYLMGLNSADLLKGLCHPRVKVGNEYVTKGQSVQQVYYSIGALAKSVYEKMFNWMVTRINATLETKQPRQYFIGVLDIAGFEIFDFNSFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWEFIDFGMDLQACIDLIEKPMGIMSILEEECMFPKASDMTFKAKLYDNHLGKSNNFQKPRNVKGKQEAHFSLVHYAGTVDYNIMGWLEKNKDLNETVVGLYQKSSLKLMATLFSTYASADTGDSGKGKGGKKKGSSFQTVSALHRENLNKLMTNLKTTHPHFVRCIIPNERKAPGVMDNPLVMHQLRCNGVLEGIRICRKGFPNRILYGDFRQRYRILNPAAIPEGQFIDSRKGAEKLLGSLDIDHNQYKFGHTKVFFKAGLLGLLEEMRDERLSRIITRIQAQARGQLMRIEFKKIVERRDALLVIQWNIRAFMGVKNWPWMKLYFKIKPLLKSAETEKEMANMKEEFGRVKDALEKSEARRKELEEKMVSLLQEKNDLQLQVQAEQDNLNDAEERCDQLIKNKIQLEAKVKEMTERLEDEEEMNAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMAGLDEIIAKLTKEKKALQEAHQQALDDLQAEEDKVNTLTKSKVKLEQQVDDLEGSLEQEKKVRMDLERAKRKLEGDLKLTQESIMDLENDKLQLEEKLKKKEFDISQQNSKIEDEQALALQLQKKLKENQARIEELEEELEAERTARAKVEKLRSDLSRELEEISERLEEAGGATSVQIEMNKKREAEFQKMRRDLEEATLQHEATAAALRKKHADSVAELGEQIDNLQRVKQKLEKEKSEFKLELDDVTSNMEQIIKAKANLEKVSRTLEDQANEYRVKLEEAQRSLNDFTTQRAKLQTENGELARQLEEKEALISQLTRGKLSYTQQMEDLKRQLEEEGKAKNALAHALQSSRHDCDLLREQYEEEMEAKAELQRVLSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQDAEEAVEAVNAKCSSLEKTKHRLQNEIEDLMVDVERSNAAAAALDKKQRNFDKILAEWKQKYEESQSELESSQKEARSLSTELFKLKNAYEESLEHLETFKRENKNLQEEISDLTEQLGEGGKNVHELEKIRKQLEVEKLELQSALEEAEASLEHEEGKILRAQLEFNQIKAEIERKLAEKDEEMEQAKRNHLRMVDSLQTSLDAETRSRNEALRVKKKMEGDLNEMEIQLSQANRIASEAQKHLKNSQAHLKDTQLQLDDAVHANDDLKENIAIVERRNNLLQAELEELRAVVEQTERSRKLAEQELIETSERVQLLHSQNTSLINQKKKMESDLTQLQTEVEEAVQECRNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTIKDLQHRLDEAEQIALKGGKKQLQKLEARVRELENELEAEQKRNAESVKGMRKSERRIKELTYQTEEDKKNLMRLQDLVDKLQLKVKAYKRQAEEAEEQANTNLSKFRKVQHELDEAEERADIAESQVNKLRAKSRDIGAKKMHDEE

>Mm\_MYH14
MAAVTMSVSGRKVASRPGPVPEAAQSFLYAPRTPNVGGPGGPQVEWTARRMVWVPSELHGFEAAALRDEGEEEAEVELAESGRRLRLPRDQIQRMNPPKFSKAEDMAELTCLNEASVLHNLRERYYSGLIYTYSGLFCVVINPYKQLPIYTEAIVEMYRGKKRHEVPPHVYAVTEGAYRSMLQDREDQSILCTGESGAGKTENTKKVIQYLAHVASSPKGRKEPGVPASVSTMSYGELERQLLQANPILEAFGNAKTVKNDNSSRFGKFIRINFDIAGYIVGANIETYLLEKSRAIRQAKDECSFHIFYQLLGGAGEQLKADLLLEPCSHYRFLTNGPSSSPGQERELFQETLESLRVLGLLPEEITAMLRTVSAVLQFGNIVLKKERNTDQATMPDNTAAQKLCRLLGLGVTDFSRALLTPRIKVGRDYVQKAQTKEQADFALEALAKATYERLFRWLVLRLNRALDRSPRQGASFLGILDIAGFEIFQLNSFEQLCINYTNEKLQQLFNHTMFVLEQEEYQREGIPWTFLDFGLDLQPCIDLIERPANPPGLLALLDEECWFPKATDKSFVEKVAQEQGSHPKFQRPRNLRDQADFSVLHYAGKVDYKASEWLMKNMDPLNDNVAALLHQSTDRLTAEIWKDVEGIVGLEQVSSLGDGGGRPRRGMFRTVGQLYKESLSRLMATLSNTNPSFVRCIVPNHEKRAGKLEPRLVLDQLRCNGVLEGIRICRQGFPNRILFQEFRQRYEILTPNAIPKGFMDGKQACEKMIQALELDPNLYRVGQSKIFFRAGVLAQLEEERDLKVTDIIVSFQAAARGYLARRAFQRRQQQQSALRVMQRNCAAYLKLRNWQWWRLFIKVKPLLQVTRQDEVLQARAQELQKVQELQQQSAREVGELQGRVAQLEEERTRLAEQLRAEAELCSEAEETRARLAARKQELELVVTELEARVGEEEECSRQLQSEKKRLQQHIQELESHLEAEEGARQKLQLEKVTTEAKMKKFEEDLLLLEDQNSKLSKERRLLEERLAEFSSQAAEEEEKVKSLNKLRLKYEATISDMEDRLKKEEKGRQELEKLKRRLDGESSELQEQMVEQKQRAEELLAQLGRKEDELQAALLRAEEEGGARAQLLKSLREAQAGLAEAQEDLEAERVARAKAEKQRRDLGEELEALRGELEDTLDSTNAQQELRSKREQEVTELKKALEEESRAHEVSMQELRQRHSQALVEMAEQLEQARRGKGVWEKTRLSLEAEVSELKAELSSLQTSRQEGEQKRRRLESQLQEVQGRSSDSERARSEAAEKLQRAQAELESVSTALSEAESKAIRLGKELSSAESQLHDTQELLQEETRAKLALGSRVRALEAEAAGLREQMEEEVVARERAGRELQSTQAQLSEWRRRQEEEAAVLEAGEEARRRAAREAETLTQRLAEKTEAVERLERARRRLQQELDDATVDLGQQKQLLSTLEKKQRKFDQLLAEEKAAVLRAVEDRERIEAEGREREARALSLTRALEEEQEAREELERQNRALRAELEALLSSKDDVGKNVHELERARKAAEQAASDLRTQVTELEDELTAAEDAKLRLEVTVQALKAQHERDLQGRDDAGEERRRQLAKQLRDAEVERDEERKQRALAMAARKKLELELEELKAQTSAAGQGKEEAVKQLKKMQVQMKELWREVEETRSSRDEMFTLSRENEKKLKGLEAEVLRLQEELAASDRARRQAQQDRDEMAEEVASGNLSKAATLEEKRQLEGRLSQLEEELEEEQNNSELLKDHYRKLVLQVESLTTELSAERSFSAKAESGRQQLERQIQELRARLGEEDAGARARQKMLIAALESKLAQAEEQLEQESRERILSGKLVRRAEKRLKEVVLQVDEERRVADQVRDQLEKSNLRLKQLKRQLEEAEEEASRAQAGRRRLQRELEDVTESAESMNREVTTLRNRLRRGPLTFTTRTVRQVFRLEEGVASDEEEAEGAEPGSAPGQEPEAPPPATPQ

>Mm\_Myh7
MADAEMAAFGAAAPFLRKSEKERLEAQTRPFDLKKDVFVPDDKEEFVKAKIVSREGGKVTAETENGKTVTVKEDQVMQQNPPKFDKIEDMAMLTFLHEPAVLYNLKERYASWMIYTYSGLFCVTVNPYKWLPVYNAEVVAAYRGKKRSEAPPHIFSISDNAYQYMLTDRENQSILITGESGAGKTVNTKRVIQYFAVIAAIGDRSKKDQTPGKGTLEDQIIQANPALEAFGNAKTVRNDNSSRFGKFIRIHFGATGKLASADIETYLLEKSRVIFQLKAERDYHIFYQILSNKKPELLDMLLITNNPYDYAFISQGETTVASIDDSEELMATDSAFDVLGFTPEEKNSIYKLTGAIMHFGNMKFKQKQREEQAEPDGTEEADKSAYLMGLNSADLLKGLCHPRVKVGNEYVTKGQNVQQVSYAIGALAKSVYEKMFNWMVTRINATLETKQPRQYFIGVLDIAGFEIFDFNSFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWTFIDFGMDLQACIDLIEKPMGIMSILEEECMFKATDMTFKAKLYDNHLGKSNNFQKPRNVKGKQEAHFSLVHYAGTVDYNILGWLQKNKDPLNETVVGLYQKSSLKLLSNLFANYAGADAPADKGKGKAKKGSSFQTVSALHRENLNKLMTNLRSTHPHFVRCIIPNETKSPGVMDNPLVMHQLRCNGVLEGIRICRKGFPNRILYGDFRQRYRILNPAAIPEGQFIDSRKGAEKLLGSLDIDHNQYKFGHTKVFFKAGLLGLLEEMRDERLSRIITRIQAQSRGVLSRMEFKKLLERRDSLLIIQWNIRAFMGVKNWPWMKLYFKIKPLLKSAETEKEMATMKEEFGRVKDALEKSEARRKELEEKMVSLLQEKNDLQLQVQAEQDNLADAEERCDQLIKNKIQLEAKVKEMTERLEDEEEMNAELTAKKRKLEDECSELKRDIDDLELTLAKVEKEKHATENKVKNLTEEMAGLDEIIVKLTKEKKALQEAHQQALDDLQAEEDKVNTLTKAKVKLEQQVDDLEGSLEQEKKVRMDLERAKRKLEGDLKLTQESIMDLENDKQQLDERLKKKDFELNALNARIEDEQALGSQLQKKLKELQARIEELEEELEAERTARAKVEKLRSDLSRELEEISERLEEAGGATSVQIEMNKKREAEFQKMRRDLEEATLQHEATAAALRKKHADSVAELGEQIDNLQRVKQKLEKEKSEFKLELDDVTSNMEQIIKAKANLEKMCRTLEDQMNEHRSKAEETQRSVNDLTSQRAKLQTENGELSRQLDEKEALISQLTRGKLTYTQQLEDLKRQLEEEVKAKNALAHALQSARHDCDLLREQYEEETEAKAELQRVLSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQDAEEAVEAVNAKCSSLEKTKHRLQNEIEDLMVDVERSNAAAAALDKKQRNFDKILAEWKQKYEESQSELESSQKEARSLSTELFKLKNAYEESLEHLETFKRENKNLQEEISDLTEQLGSTGKSIHELEKIRKQLEAEKLELQSALEEAEASLEHEEGKILRAQLEFNQIKAEIERKLAEKDEEMEQAKRNHLRMVDSLQTSLDAETRSRNEALRVKKKMEGDLNEMEIQLSHANRMAAEAQKQVKSLQSLLKDTQIQLDDAVRANDDLKENIAIVERRNNLLQAELEELRAVVEQTERSRKLAEQELIETSERVQLLHSQNTSLINQKKKMDADLSQLQTEVEEAVQECRNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTIKDLQHRLDEAEQIALKGGKKQLQKLEARVRELENELEAEQKRNAESVKGMRKSERRIKELTYQTEEDRKNLLRLQDLVDKLQLKVKAYKRQAEEAEEQANTNLSKFRKVQHELDEAEERADIAESQVNKLRAKSRDIGAKGLNEE

>Mm\_MYH11
MAQKGQLSDDEKFLFVDKNFMNSPMAQADWVAKKLVWVPSEKQGFEAASIKEEKGDEVVVELVENGKKVTVGKDDIQKMNPPKFSKVEDMAELTCLNEASVLHNLRERYFSGLIYTYSGLFCVVVNPYKYLPIYSEKIVDMYKGKKRHEMPPHIYAIADTAYRSMLQDREDQSILCTGESGAGKTENTQKVIQYLAVVASSHKGKKDSSITGELEKQLLQANPILEAFGNAKTVKNDNSSRFGKFIRINFDVTGYIVGANIETYLLEKSRAIRQARDERTFHIFYYLLAGAKEKMKSDLLLESFNSYTFLSNGFVPIPAAQDDEMFQETLEAMSIMGFNEEEQLAILKVVSSVLQLGNIVFKKERNTDQASMPDNTAAQKVCHLVGINVTDFTRAILTPRIKVGRDVVQKAQTKEQADFAIEALAKATYERLFRWILSRVNKALDKTHRQGASFLGILDIAGFEIFEVNSFEQLCINYTNEKLQQLFNHTMFILEQEEYQREGIEWNFIDFGLDLQPSIELIERPNNPPGVLALLDEECWFPKATDKSFVEKLCSEQGNHPKFQKPKQLKDKTEFSIIHYAGKVDYNASAWLTKNMDPLNDNVTSLLNASSDKFVADLWKDVDRIVGLDQMAKMTESSLPSASKTKKGMFRTVGQLYKEQLGKLMATLRNTTANFVRCIIPNHEKRSGKLDAFLVLEQLRCNGVLEGIRICRQGFPNRIVFQEFRQRYEILAANAIPKGFMDGKQACILMIKALELDPNLYRIGQSKIFFRTGVLAHLEEERDLKITDVIMAFQAMCRGYLARKAFTKRQQQLTAMKVIQRNCAAYLKLRNWQWWRLFTKVKPLLQVTRQEEEMQAKEEEMQKITERQQKAETELKELEQKHTQLAEEKTLLQEQLQAETELYAESEEMRVRLAAKKQELEEILHEMEARLEEEEDRRQQLQAERKKMAQQMLDLEEQLEEEEAARQKLQLEKVTAEAKIKKLEDDILVMDDQNSKLSKERKLLEERVSDLTTNLAEEEEKAKNLTKLKSKHESMISELEVRLKKEEKSRQELEKLKRKLEGDASDFHEQIADLQAQIAELKMQLAKKEEELQAALARLDEEIAQKNNALKKIRELEGHISDLQEDLDSERAARNKAEKQKRDLGEELEALKTELEDTLDSTATQQELRAKREQEVTVLKKALDEETRSHEAQVQEMRQKHTQAVEELTEQLEQFKRAKANLDKSKQTLEKENADLAGELRVLGQAKQEVEHKKKKLEVQLQDLQSKCSDGERARAELSDKVHKLQNEVESVTGMLNEAEGKAIKLAKDVASLGSQLQDTQELLQEETRQKLNVSTKLRQLEDERNSLQDQLDEEMEAKQNLERHVSTLNIQLSDSKKKLQDFASTIEVMEEGKKRLQKEMEGLSQQYEEKAAAYDKLEKTKNRLQQELDDLVVDLDNQRQLVSNLEKKQKKFDQLLAEEKNISSKYADERDRAEAEAREKETKALSLARALEEALEAKEELERTNKMLKAEMEDLVSSKDDVGKNVHELEKSKRALETQMEEMKTQLEESEDDVQATEDAKLRLEVNMQALKGQFERDLQARDEQNEEKRRQLQRQLHEYETELEDERKQRALAAAAKKKLEGDLKDLELQADSAIKGREEAIKQLRKLQAQMKDFQRELDDARASRDEIFATSKENEKKAKSLEADLMQLQEDLAAAERARKQADLEKEELAEELASSLSGRNTLQDEKRRLEARIAQLEEELEEEQGNMEAMSDRVRKATLQAEQLSNELATERSTAQKNESARQQLERQNKELRSKLQEVEGAVKAKLKSTVAALEAKIAQLEEQVEQEAREKQAATKSLKQKDKKLKEVLLQVEDERKMAEQYKEQAEKGNTKVKQLKRQLEEAEEESQCINANRRKLQRELDEATESNEAMGREVNALKSKLRRGNEASFVPSRRAGGRRVIENTDGSEEEMDARDSDFNGTKASE

>Mm\_MYH3
MSSDTEMEVFGIAAPFLRKSEKERIEAQNQPFDAKTYCFVVDSKEEYVKGKIKSSQDGKVTVETEDSRTLVVKPEDVYAMNPPKFDKIEDMAMLTHLNEPAVLYNLKDRYTSWMIYTYSGLFCVTVNPYKWLPVYNPEVVDGYRGKKRQEAPPHIFSISDNAYQFMLTDRENQSILITGESGAGKTVNTKRVIQYFATIAATGDLAKKKDSKMKGTLEDQIISANPLLEAFGNAKTVRNDNSSRFGKFIRIHFGTTGKLASADIETYLLEKSRVTFQLKAERSYHIFYQILSNKKPELIELLLITTNPYDYPFISQGEILVASIDDAEELLATDSAIDILGFTPEEKSGLYKLTGAVMHYGNMKFKQKQREEQAEPDGTEVADKTAYLMGLNSSDLLKALCFPRVKVGNEYVTKGQTVDQVHHAVNALSKSVYEKLFLWMVTRINQQLDTKLPRQHFIGVLDIAGFEIFEYNSLEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWTFIDFGMDLAACIELIEKPMGIFSILEEECMFPKATDTSFKNKLYDQHLGKSNNFQKPKVVKGKAEAHFSLVHYAGTVDYSVSGWLEKNKDLNETVVGLYQKSSNRLLAHLYATFATTDADGGKKKVAKKKGSSFQTVSALFRENLNKLMSNLRTTHPHFVRCIIPNETKTPGAMEHSLVLHQLRCNGVLEGIRICRKGFPNRILYGDFKQRYRVLNASAIPEGQFIDSKKACEKLLASIDIDHTQYKFGHTKVFFKAGLLGTLEEMRDERLAKLITRTQAVCRGFLMRVEFQKMMQRRESIFCIQYNIRAFMNVKHWPWMKLFFKIKPLLKSAETEKEMATMKEEFQKTKDELAKSEAKRKELEEKLVTLVQEKNDLQLQVQAESENLLDAEERCDQLIKAKFQLEAKIKEVTERAEDEEEINAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEELAGLDETIAKLTREKKALQEAHQQTLDDLQAEEDKVNSLSKLKSKLEQQVDDLESSLEQEKKLRVDLERNKRKLEGDLKLAQESILDLENDKQQLDERLKKKDFEYSQLQSKVEDEQTLSLQLQKKIKELQARIEELEEEIEAERATRAKTEKQRSDYARELEELSERLEEAGGVTSTQIELNKKREAEFLKLRRDLEEATLQHEATVATLRKKHADSAAELAEQIDNLQRVKQKLEKEKSEFKLEIDDLSSSVESVSKSKANLEKICRTLEDQLSEARGKNEEMQRSLSELTTQKSRLQTEAGELSRQLEEKESIVSQLSRSKQAFTQQIEELKRQLEEENKAKNALAHALQSSRHDCDLLREQYEEEQEGKAELQRALSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQDSEEQVEAVNAKCASLEKTKQRLQGEVEDLMVDVERANSLAAALDKKQRNFDKVLAEWKTKCEESQAELEAALKESRSLSTELFKLKNAYEEALDQLETVKRENKNLEQEIADLTEQIAENGKSIHELEKSRKQMELEKADIQMALEEAEAALEHEEAKILRIQLELTQVKSEIDRKIAEKDEEIEQLKRNYQRTVETMQGALDAEVRSRNEAIRLKKKMEGDLNEIEIQLSHANRQAAETIKHLRSVQGQLKDTQLHLDDALRGQEDLKEQLAIVERRANLLQAEVEELRATLEQTERARKLAEQELLDSNERVQLLHTQNTSLIHTKKKLETDLTQLQSEVEDACRDARNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNLEQTVKDLQHRLDEAEQLALKGGKKQIQKLETRIRELEFELEGEQKRNTESVKGLRKYERRVKELTYQSEEDRKNVLRLQDLVDKLQVKVKSYKRQAEEADEQANAHLTKFRKAQHELEEAEERADIAESQVNKLRAKTRDFTSSRMVVHESEE

>Mm\_MYH4
MSSDAEMAVFGEAAPYLRKSEKERIEAQNKPFDAKSSVFVVDAKESYVKATVQSREGGKVTAKTEGGATVTVKDDQVFSMNPPKYDKIEDMAMMTHLHEPAVLYNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYNPEVVAAYRGKKRQEAPPHIFSISDNAYQFMLTDRENQSILITGESGAGKTVNTKRVIQYFATIAVTGDKKKEEATSGKMQGTLEDQIISANPLLEAFGNAKTVRNDNSSRFGKFIRIHFGATGKLASADIETYLLEKSRVTFQLKAERSYHIFYQIMSNKKPELIEMLLITTNPYDFAYVSQGEITVPSIDDQEELMATDTAVDILGFSADEKVAIYKLTGAVMHYGNMKFKQKQREEQAEPDGTEVADKAAYLTSLNSADLLKALCYPRVKVGNEYVTKGQTVQQVYNSVGALAKSMYEKMFLWMVTRINQQLDTKQPRQYFIGVLDIAGFEIFDFNTLEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIDWEFIDFGMDLAACIELIEKPMGIFSILEEECMFPKATDTSFKNKLYEQHLGKSNNFQKPKPAKGKAEAHFSLVHYAGTVDYNIIGWLDKNKDPLNETVVGLYQKSGLKTLAFLFSGGQAAEAEGGGGKKGGKKKGSSFQTVSALFRENLNKLMTNLKSTHPHFVRCLIPNETKTPGAMEHELVLHQLRCNGVLEGIRICRKGFPSRILYADFKQRYKVLNASAIPEGQFIDSKKASEKLLGSIDIDHTQYKFGHTKVFFKAGLLGTLEEMRDEKLAQLITRTQAVCRGYLMRVEFKKMMERRESIFCIQYNVRAFMNVKHWPWMKLYFKIKPLLKSAETEKEMANMKEDFEKAKEDLAKSEAKRKELEEKMVALMQEKNDLQLQVQAEADGLADAEERCDQLIKTKIQLEAKIKELTERAEDEEEINAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMAGLDENIAKLTKEKKALQEAHQQTLDDLQAEEDKVNTLTKAKTKLEQQVDDLEGSLEQEKKLRMDLERAKRKLEGDLKLAQESTMDIENDKQQLDEKLKKKEFEMSNLQSKIEDEQALGMQLQKKIKELQARIEELEEEIEAERASRAKAEKQRSDLSRELEEISERLEEAGGATSAQIEMNKKREAEFQKMRRDLEEATLQHEATAAALRKKHADSVAELGEQIDNLQRVKQKLEKEKSELKMEIDDLASNMETVSKAKGNLEKMCRTLEDQLSEVKTKEEEQQRLINELSTQKARLHTESGEFSRQLDEKDAMVSQLSRGKQAFTQQIEELKRQLEEESKAKNALAHALQSARHDCDLLREQYEEEQEAKAELQRAMSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQDAEEHVEAVNSKCASLEKTKQRLQNEVEDLMIDVERSNAACAALDKKQRNFDKVLAEWKQKYEETQAELEASQKESRSLSTELFKVKNAYEESLDQLETLKRENKNLQQEISDLTEQIAEGGKHIHELEKIKKQIDQEKSELQASLEEAEASLEHEEGKILRIQLELNQVKSEIDRKIAEKDEEIDQLKRNHLRVVESMQSTLDAEIRSRNDALRIKKKMEGDLNEMEIQLNHANRQAAEAIRNLRNTQGMLKDTQLHLDDALRGQDDLKEQLAMVERRANLMQAEIEELRASLEQTERSRRVAEQELLDASERVQLLHTQNTSLINTKKKLETDISQIQGEMEDIVQEARNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTVKDLQHRLDEAEQLALKGGKKQIQKLEARVRELENEVENEQKRNIEAVKGLRKHERRVKELTYQTEEDRKNVLRLQDLVDKLQTKVKAYKRQAEEAEEQSNVNLAKFRKIQHELEEAEERADIAESQVNKLRVKSREVHTKVISEE

>Mm\_MYH1
MSSDAEMAVFGEAAPYLRKSEKERIEAQNKPFDAKSSVFVVDAKESFVKATVQSREGGKVTAKTEGGTTVTVKDDQVYPMNPPKYDKIEDMAMMTHLHEPAVLYNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYNAEVVAAYRGKKRQEAPPHIFSISDNAYQFMLTDRENQSILITGESGAGKTVNTKRVIQYFATIAVTGEKKKEEATSGKMQGTLEDQIISANPLLEAFGNAKTVRNDNSSRFGKFIRIHFGTTGKLASADIETYLLEKSRVTFQLKAERSYHIFYQIMSNKKPDLIEMLLITTNPYDYAFVSQGEITVPSIDDQEELMATDSAIDILGFTSDERVSIYKLTGAVMHYGNMKFKQKQREEQAEPDGTEVADKAAYLQNLNSADLLKALCYPRVKVGNEYVTKGQTVQQVYNSVGALAKAVYEKMFLWMVTRINQQLDTKQPRQYFIGVLDIAGFEIFDFNSLEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWEFIDFGMDLAACIELIEKPMGIFSILEEECMFPKATDTSFKNKLYEQHLGKSNNFQKPKPAKGKVEAHFSLVHYAGTVDYNIAGWLDKNKDPLNETVVGLYQKSSMKTLAYLFSGAAAAAEAESGGGGGKKGAKKKGSSFQTVSALFRENLNKLMTNLRSTHPHFVRCIIPNETKTPGAMEHELVLHQLRCNGVLEGIRICRKGFPSRILYADFKQRYKVLNASAIPEGQFIDSKKASEKLLGSIDIDHTQYKFGHTKVFFKAGLLGLLEEMRDDKLAQLITRTQAMCRGYLARVEYQKMVERRESIFCIQYNVRAFMNVKHWPWMKLYFKIKPLLKSAETEKEMANMKEEFEKAKENLAKAEAKRKELEEKMVALMQEKNDLQLQVQSEADSLADAEERCDQLIKTKIQLEAKIKEVTERAEDEEEINAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMAGLDETIAKLTKEKKALQEAHQQTLDDLQAEEDKVNTLTKAKIKLEQQVDDLEGSLEQEKKIRMDLERAKRKLEGDLKLAQESTMDVENDKQQLDEKLKKKEFEMSNLQSKIEDEQALGMQLQKKIKELQARIEELEEEIEAERASRAKAEKQRSDLSRELEEISERLEEAGGATSAQIEMNKKREAEFQKMRRDLEEATLQHEATAATLRKKHADSVAELGEQIDNLQRVKQKLEKEKSEMKMEIDDLASNMEVISKSKGNLEKMCRTLEDQVSELKTKEEEQQRLINELTAQRGRLQTESGEYSRQLDEKDSLVSQLSRGKQAFTQQIEELKRQLEEEIKAKSALAHALQSSRHDCDLLREQYEEEQEAKAELQRAMSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQDAEEHVEAVNAKCASLEKTKQRLQNEVEDLMIDVERTNAACAALDKKQRNFDKILAEWKQKYEETHAELEASQKESRSLSTELFKIKNAYEESLDHLETLKRENKNLQQEISDLTEQIAEGGKRIHELEKIKKQIEQEKSELQAALEEAEASLEHEEGKILRIQLELNQVKSEIDRKIAEKDEEIDQLKRNHIRVVESMQSTLDAEIRSRNDAIRLKKKMEGDLNEMEIQLNHSNRMAAEALRNYRNTQGILKDTQLHLDDALRGQEDLKEQLAMVERRANLLQAEIEELRATLEQTERSRKIAEQELLDASERVQLLHTQNTSLINTKKKLETDISQIQGEMEDIVQEARNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNLEQTVKDLQHRLDEAEQLALKGGKKQIQKLEARVRELEGEVENEQKRNVEAIKGLRKHERRVKELTYQTEEDRKNVLRLQDLVDKLQSKVKAYKRQAEEAEEQSNVNLAKFRKIQHELEEAEERADIAESQVNKLRVKSREVHTKIISEE

>Mm\_MYH8
MSAGSDAEMAIFGEAAPYLRKSEKERIEAQNKPFDAKTSVFVAEPKESYVKSVIQSKDGGKVTVKTESGATLTVKEDQVFPMNPPKYDKIEDMAMMTHLHEPGVLYNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYNPEVVAAYRGKKRQEAPPHIFSISDNAYQFMLTDRENQSILITGESGAGKTVNTKRVIQYFATIAVTGDKKKEESGKMQGTLEDQIISANPLLEAFGNAKTVRNDNSSRFGKFIRIHFGTTGKLASADIETYLLEKSRVTFQLKAERSYHIFYQITSNKKPELIEMLLITTNPYDYAFVSQGEITVPSIDDQEELMATDSAIDILGFSPEEKVSIYKLTGAVMHYGNMKFKQKQREEQAEPDGTEVADKAAYLQCLNSADLLKALCYPRVKVGNEYVTKGQTVQQVYNAVGALAKAVYEKMFLWMVTRINQQLDTKQPRQYFIGVLDIAGFEIFDFNSLEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWTFIDFGMDLAACIELIEKPLGIFSILEEECMFPKATDTSFKNKLYDQHLGKSNNFQKPKPTKGKAEAHFSLVHYAGTVDYNITGWLDKNKDPLNDTVVGLYQKSAMKTLASLFSTYASAEADGGAKKGAKKKGSSFQTVSALFRENLNKLMTNLRSTHPHFVRCIIPNETKTPGAMEHELVLHQLRCNGVLEGIRICRKGFPSRILYGDFKQRYKVLNASAIPEGQFIDSKKASEKLLGSIDIDHTQYKFGHTKVFFKAGLLGLLEEMRDEKLAQIITRTQAVCRGYLMRVEYQKMLLRRESIFCIQYNVRAFMNVKHWPWMKLFFKIKLLKSAETEKEMATMKEEFQKTKDELAKSEAKRKELEEKMVTLLKEKNDLQLQVQSEADSLADAEERCEQLIKNKIQLEAKIKEVTERAEDEEEINAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMAGLDENIAKLTKEKKALQEAHQQTLDDLQAEEDKVNTLTKAKTKLEQQVDDLEGSLEQEKKLRMDLERAKRKLEGDLKLAQESTMDIENDKQQLDEKLKKKEFEISNLISKIEDEQAVEIQLQKKIKELQARIEELEEEIEAERASRAKAEKQRSDLSRELEEISERLEEAGGATSAQVEMNKKRETEFQKLRRDLEEATLQHEATAAALRKKHADSVAELGEQIDNLQRVKQKLEKEKSELKMEIDDLSSNAEAIAKAKGNLEKMCRTLEDQVSELKSKEEEQQRLINELTAQRARLQTEAGEYSRQLDEKDALVSQLSRSKQASTQQIEELKRQLEEETKAKNALAHALQSSRHDCDLLREQYEEEQEGKAELQRALSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQAAEEHVEAVNAKCASLEKTKQRLQNEVEDLMIDVERTNAACAALDKKQRNFDKVLSEWRQKYEETQAELESCQKESRTLSTELFKVKNAYEESLDHLETLRRENKNLQQEISDLTEQIAEGGKHIHELEKIKKQVEQEKCEIQAALEEAEASLEHEEGKILRIQLELNQVKSEIDRKIAEKDEEIDQLKRNHVRVVETMQSTLDAEIRSRNDALRVKKKMEGDLNEMEIQLNHANRLAAESLRNYRNTQGILKDTQLHLDDALRGQEDLKEQLAIVERRANLLQAEIEELRATLEQTERSRKIAEQELLDASERVQLLHTQNTSLINTKKKLENDVSQLQSEVEEVIQESRNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTVKDLQHRLDEAEQLALKGGKKQIQKLEARVRELEGEVENEQKRNAEAVKGLRKHERRVKELTYQTEEDRKNVLRLQDLVDKLQAKVKSYKRQAEEAEEQSNANLAKFRKLQHELEEAEERADIAESQVNKLRVKSREVHTKISAE

>Mm\_Myh7B
MMDMSELGESACYLRQGYQEMMKVHTVPWDGKKRVWVPDEQDAYVEAEVKTEATGGKVTVETKDQKVLTVRETEMQPMNPPRFDLLEDMAMMTHLNEAAVLHNLRQRYARWMIYTYSGLFCVTINPYKWLPVYTAAVVAAYKGKRRSEAPPHIYAVADNAYNDMLRNRENQSMLITGESGAGKTVNTKRVIQYFAIVAALGDGPGKKAQFLATKTGGTLEDQIIEANPAMEAFGNAKTLRNDNSSRFGKFIRIHFGPTGKLASADIDSYLLEKSRVIFQLPGERGYHVYYQILSGKKPELQDMLLLSMNPYDYHFCSQGVTTVDNMDDGEELIATDHAMDILGFSVDEKCACYKIVGALLHFGNMKFKQKQREEQAEADGTESADKAAYLMGVSSGDLLKGLLHPRVRVGNEYVTKGQSVEQVVFAVGALAKATYDRLFRWLVSRINQTLDTKLPRQFFIGVLDIAGFEIFEFNSFEQLCINFTNEKLQQFFNQHMFVLEQEEYKREGIDWVFIDFGLDLQPCIDLIEKPLGILSILEEECMFPKASDASFRAKLYDNHSGKSPNFQQPRPDKKRKYQAHFEVVHYAGVVPYSIVGWLEKNKDPLNETVVPIFQKSQNRLLATLYENYAGSCSTEPPKSGVKEKRKKAASFQTVSQLHKENLNKLMTNLRATQPHFVRCIVPNENKTPGVMDSFLVLHQLRCNGVLEGIRICRQGFPNRLLYADFRQRYRILNPSAIPDDTFVDSRKATEKLLGSLDIDHTQYQFGHTKVFFKAGLLGILEELRDQRLAKVLTLLQARSRGRLMRLEYQRMLGGRDALFTIQWNIRAFNAVKNWSWMKLFFKMKPLLRSAQAEEELAALRAELRGLRGALATAEAKRQELEETQVSVTQEKNDLALQLQAEQDNLADAEERCHLLIKSKVQLEAKVKELSERLEDEEEVNADLAARRRKLEDECTELKKDIDDLELTLAKAEKEKQATENKVKNLTEEMAALDEAVVRLTKEKKALQEAHQQALGDLQAEEDRVSALAKAKIRLEQQVEDLECSLEQEKKLRMDTERAKRKLEGDLKLTQETVTDTTQDKQQLEEKLKKKDSELSQLNLRVEDEQLVGVQLQKKIKELQARAEELEEELEAERAARARVEKQRAEAARELEELSERLEEAGGASAGQREGCRKREAELGRLRRELEEAVLRHEATVAALRRKQADSAAELSEQVDSLQRIRQKLEKEKSELRMEVDDLGASVETLARGKASAEKLCRTYEDQLSEAKIKVEELQRQLADASTQRGRLQTENGELGRLLEEKESMISQLSRGKTSAAQSLEELRRQLEEESKAKGALAHAVQALRHDCDLLREQHEEESEAQAELQRLLSKANAEVAQWRSKYEADAIQRTEELEEAKKKLALRLQEAEEGVEAANAKCSSLEKAKLRLQTESEDVTLELERATSAAAALDKKQRHLERALEERRRQEEEMQRELEAAQREARGLGTELFRLRHSHEEALEALETLKRENKNLQEEISDLTDQVSLSGKSIQELEKAKKALEGEKSELQAALEEAEGALELEETKTLRIQLELSQVKAEVDRKLAEKDEECTNLRRNHQRAVESLQASLDAETRARNEALRLKKKMEGDLNDLELQLGHATRQAMEAQAATRLLQAQLKEEQAGRDEEQRLAAELREQGQALERRAALLAAELEELRAALEQGERSRRLAEQELLEATERLNLLHSQNTGLLNQKKKLEVDLAQLSGEVEEAAQERREAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKTLEQTVRELQARLEEAEQAALRGGKKQVQKLEAKVRELEAELDAEQKKHAEALKGVRKHERRVKELVYQTEEDRKNLARMQDLVDKLQSKVKSYKRQFEEAEQQASTNLAKYRKAQHELDDAEERADMAETQANKLRARSRDALGPKHKE

>Ci\_MYHE.v1
MSFDYEACQDAAQYLRLSREKIIENQTQKPDGKKYVWFPTKAEAYVKGELIKTEKGKCTIKSIDEGKEMTVKEDDLQEMNPPRYEKCEDMAGMTFLNEASVLNNLRSRYESFMIYTYSGLFCVTVNPYKMLPVYAPYVIAAYKGKRRTEMPPHLYSIADNAYTEMLMNRENQSMLITGESGAGKTVNTKKVIQYFALVAAYGAAQDDGKGTLEDQIVQCNPAMEAFGNAKTVRNDNSSRFGKFIRIHFGSTGLLASGDIEHYLLEKSRVIYQQEGERNYHIFYQIISGSKPELIDQLLVTKDPYDYKSISQGVVTVDNMDDGAELLLTDDAFRVLGFNQEEISGIYRIMAGIMHQQNMKFKNKQREEQAEPDGTEDADKVAYLFGLNSADFIKYICHPRVKVGNEYVTKGQSCNQVSYGMGALSKGLFGRHFDWLVKLINQTLSTKLPRSFFIGVLDIAGFEIFDSNSFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIDWVFIDFGMDLAACIELIEKPLGIMSILEEECMFPKASDDTFKDKLYQNHLGKSKAFGKPVKKTKYEAHFELYHYAGTVAYNICGWLEKNKDPLNNSVVDLYKKASLKLMQTIWEGYVSPEEAASGGGKGGKRKKGGSFMTVSSLHRQSLNSLMTNLRSTAPHFVRCLIPNERKCPGEMDSHLVLHQLRCNGVLEGIRICRKGFPNRVPYGDFKQRYRILNPNAAPEGQFMDSKKTSEKLLGSIDIDHESYKLGHTKVFFRAGMIGKLEEMRDNKLSSIFKLIQGRMRGVLMRREYQKMIERRQACRIIQSNLRAFFGMANCEWMKLMFKIKPLLKTAESAKELEEMEKEFAETKVNLEKETKRRKELEEMQVSFIQEKNDLVMQLQAQQDQIDDGEDRCDQLIKTKSEMKMEIDDLASNVESVTKAKLNYEKMARNLEEQLNETKMKNDNFTKEVNELNAAKARLSSENGEFGRQLDEREHLMAQLTRSKNSSSQQIDELKRVVEEETKAKAALAHAVQASRHDNDLLREQYEEEQEAKAELQRALSKANAEVAQWRNKYETDAIQRTEELEEAKKKLALRLQEAEEQVEAMQAKAASLDKTKNRLQGEVEDLTIDLERSNAGAAALDKKQRNFDKVLSEHKQKAEEVQVELEQSQKEARSLSTELFKMKNAYEEALDGLETVKRENKNLQEEIADLTDQLGEGGKSIHELEKAKRTLEHERNEIQAALEEAEGAMEGEESKVLRLQVEVAQMKQEFERKIAEKEEEVDTQRRNQQRSIESMQTTLDSESKARQEAVRIKKKMEGDLNDLEIQLGHANRQASEAQKQAKSIQSHVKDLEMQVDEAQRHAEDLQEQSAVIERRGNLLTAEIEELRSALEQAERGRKLAETELLDSSERSNMLHTQNTALINQKRKLEGELQTMQGEVEEAVQEQRNAEEKAKKSIVDAATMAEELKKEQDLSSHLERMKKNMEQTVKDLQQRLDEAENIALKGGKKQVQKLEARIRELENEVDSEQRRNSDSVKNQRKFERRLKEVTYQGEEDKKNLTRIQDLVDKLQIKVKTYKRQAEEAEEQANTNLSKYRKLQHELDDAEERAEMAESQLNKMRSKARDMKSDK

>Ci\_MYHE.v2
MSFDYEACQDAAQYLRLSREKIIENQTQKPDGKKYVWFPDKAEAYVKGELIKTEKGKCTIKSIAEGKEMTVKEDDLQEMNPPRYEKCEDMAGMTFLNEASVLNNLRSRYESFMIYTYSGLFCVTVNPYKMLPVYAPYVIAAYKGKRRTEMPPHLYSIADNAYTEMLMNRENQSMLITGESGAGKTVNTKKVIQYFALVAAYGSAQDDGKGTLEDQIVQCNPAMEAFGNAKTVRNDNSSRFGKFIRIHFGSTGLLASGDIEHYLLEKSRVIYQQEGERNYHIFYQIISGSKPELIDQLLVTKDPYDYKSISQGVVSVDNLDDGAELLLTDDAFRVLGFNQEEITGIYRIMAGIMHQQNMKFKNKQREEQAEPDGTEDADKVAYLFGLNSADFIKYICHPRVKVGNEYVTKGQSCNQVSYGMGALSKGLFGRHFDWLVKLINQTLSTKLPRSFFIGVLDIAGFEIFDSNSFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIDWVFIDFGMDLAACIELIEKPLGIMSILEEECMFPKASDDTFKDKLYQNHLGKSKAFGKPVKKTKYEAHFELYHYAGTVAYNICGWLEKNKDPLNNSVVDLYKKASLKLMQTIWEGYVSPEEAASGGGKGGKRKKGGSFMTVSSLHRQSLNSLMTNLRSTAPHFVRCLIPNERKCPGEMESHLVLHQLRCNGVLEGIRICRKGFPNRVPYGDFKQRYRILNPNAAPEGQFMDSKKASEKLLGSIDINHESYKLGHTKVFFRAGMIGRLEEMRDNKLASIFKLLQARMRGMLMRKEYQKMIERRQACRIIQSNLRAFFGMANCEWMKLMFKIKPLLKTAESAKELEEMEKEFAETKVNLEKETKRRKELEEMQVSFVQEKNDLVMQLQAQQDQIDDGEDRCDQLIKTKVELDGKIKELTERLEDEEELNNELVSKKRKLEDECSELKKDIDDLEITLAKVEKEKHATENKLKNLQEELATQDEQIAKLQKEKKALQEAHQQTLDDLQSEEDKVNSLTKQKAKLEQQVDDLEASLEQEKKLRMELERTKRKLEGDLRLTQETVMDLENDKQRLEEKLKKQEFEYSQLATKLEDEQALVSQLQKKIKELQARIEELEEELEAERAARAKVEKQRADLSRELEELSERLEEAGGATAAQIELNKRREAEFAKLRRELEESNLGHEATVSTLRKKNADTSSEMSEQIDNLQRVKQKLEKEKSEMKMEIDDLASNVESVTKAKLNYEKMARNLEEQLNETKMKNDNFTKEVNELNAAKARLSSENGEFGRQLEEREHLMAQLTRSKNSSSQQIDELKRVVEEETKAKAALAHAVQASRHDNDLLREQYEEEQEAKAELQRALSKANAEVAQWRNKYETDAIQRTEELEEAKKKLAIRLQEAEEQVEAMQAKASSLDKTKNRLQSELEDLTIDLEKSNSAAAALDKKQRNFDKILAEHKQKAEEIQVELEQSQKEARSLSTELFKMKNAYEESLDALETVKRENKNLQEEIADLTDQLGEGGKSIHELEKAKRTLEHERNEMQSALEEAEGAIEGEESKVLRLQVELAQIKQEFERRLAEKEEEVDNQRRNQQRSIESMQTTLDSESKARQEAVRIKKKMEGDLNDLEIQLGHANRQASEAQKQAKSIQSHVKDLEMQVDEAQRHGEDLQEQSAVIERRGNLLTAEIEELRSALEQAERGRKLAETELLESSERSNLLHTQNTALINQKRKLEGELQTMQGEVEESVQEQRNAEDKAKKAIVDAATMAEELKKEQDLSSHLERMKKNMEQTVKDLQQRLDEAENIALKGGKKQVQKLETRIRELENELDSEQRRNGDSVKGQRKLERRLKEVSYQGEEDKKNLTRIQDLVDKLQIKVKTYKRQAEEAEEQANTNLSKYRKLQHELDDAEERAEMAESQLNKMRSKARDSKGAN

>Ci\_MYHE.v3
MSFDYEACQDAAQYLRLSREKIIENQTQKPDGKKYVWFPDKAEAYVKGELIKTEKGKCTIKSIAEGKEMTVKEDDLQEMNPPRYEKCEDMAGMTFLNEASVLNNLRSRYESFMIYTYSGLFCVTVNPYKMLPVYAPYVIAAYKGKRRTEMPPHLYSIADNAYTEMLMRIIKYNTNVYYRGESGAGKTVNTKKVIQYFALVAAYGASQDDGKGTLEDQIVQCNPAMEAFGNAKTVRNDNSSRFGKFIRIHFGSTGLLASGDIEHYLLEKSRVIYQQEGERNYHIFYQIISGSKPELIDQLLVTKDPYDYKSISQGVVSVDNLDDGAELLLTDDAFRVLGFNQEEITGIYRIMAGIMHQQNMKFKNKQREEQAEPDGTEDADKVAYLFGLNSADFIKYICHPRVKVGNEYVTKGQSCNQVSYGMGALSKGLFGRHFDWLVKLINQTLSTKLPRSFFIGVLDIAGFEIFDSNSFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIDWVFIDFGMDLAACIELIEKPLGIMSILEEECMFPKASDDTFKDKLYQNHLGKSKAFGKPVKKTKYEAHFELYHYAGTVAYNICGWLEKNKDPLNNSVVDLYKKASLKLMQTIWEGYISPEEAASGGGKGGKRKKGGSFMTVSSLHRQSLNSLMTNLRSTAPHFVRCLIPNERKCPGEMESHLVLHQLRCNGVLEGIRICRKGFPNRVPYGDFKQRYRILNPNAAPEGQFMDSKKASEKLLGSIDIDHESYKLGHTKVFFRAGMIGRLEELRDNKLASIFKLLQARMRGMLMRKEYQKMIERRQACRIIQSNLRAFFGMANCEWMKLMFKIKPLLKTAESAKELEEMEKEFAETKVNLEKETKRRKELEEMQVSFIQEKNDLVMQLQAQQDQIDDGEDRCDQLIKTKVELDGKIKELTERLEDEEELNNELVSKKRKLEDECSELKKDIDDLEITLAKVEKEKHATENKLKNLQEELATQDEQIAKLQKEKKALQEAHQQTLDDLQSEEDKVNSLTKQKAKLEQQVDDLEASLEQEKKLRMELERTKRKLEGDLRLTQETVMDLENDKQRLEEKLKKQEFEYSQLATKLEDEQALVSQLQKKIKELQARIEELEEELEAERAARAKVEKQRADLSRELEELSERLEEAGGATAAQIELNKRREAEFAKLRRELEESNLGHEATVSTLRKKNADTSSEMSEQIDNLQRVKQKLEKEKSEMKMEIDDLASNVESVTKAKLNYEKMARNLEEQLNETKMKNDNFTKEVNELNAAKARLSSENGEFGRQLEEREHLMAQLTRSKNSSSQQIDELKRVVEEETKAKAALAHAVQASRHDNDLLREQYEEEQEAKAELQRALSKANAEVAQWRNKYETDAIQRTEELEEAKKKLAIRLQEAEEQVEAMQAKASSLDKTKNRLQSELEDLTIDLEKSNSAAAALDKKQRNFDKILAEHKQKAEEIQVELEQSQKEARSLSTELFKMKNAYEESLDALETVKRENKNLQEEIADLTDQLGEGGKSIHELEKAKRTLEHERNEMQSALEEAEGAIEGEESKVLRLQVELAQIKQEFERRLAEKEEEVDNQRRNQQRSIESMQTTLDSESKARQEAVRIKKKMEGDLNDLEIQLGHANRQASEAQKQAKSIQSHVKDLEMQVDEAQRHAEDLQEQSAVIERRGNLLTAEIEELRSALEQAERGRKLAETELLESSERSNLLHTQNTALINQKRKLEGELQTMQGEVEESVQEQRNAEDKAKKAIVDAATMAEELKKEQDLSSHLERMKKNMEQTVKDLQQRLDEAENIALKGGKKQVQKLETRIRELENELDSEQRRNGDSVKSQRKIERRLKEVSYQGEEDKKNLTRIQDLVDKLQIKVKTYKRQAEEAEEQANTNLSKYRKLQHELDDAEERAEMAESQLNKMRSKARDTKGSN

>Ci\_MYH2
MQEVHVKEDNIDEQNPPKFTLIEDMANMTYLNEPSVLNNLKLRYEKFLIYTYSGLFCVTINPYKLLPVYETYVVGCYKGKRRAEMPPHIFSIADNAYNDMLRNRENQSMLITGESGAGKTVNTKRVIQYFATVAALGDAKVEDGKVYCTLEDQIIQANPAMEAFGNAKTIRNDNSSRFGKFIRIHFGTTGKLASGDIETYLLEKSRVIFQQPGERGFHIFYQIISGAKPELLENLLITTDYDYKYMSQGDVAVASIDDADELNATDTAFDVLGFSQDEKNGIYRIMGSIMHTGNMKFKQKPREEQAEADGTEDADKVTYLLGINSAEFVKSILSPRVRVGNDYVTKGQTVQQCYYSTGALSKAVYEKLFNWLVKRINETLSTRLPRSFFIGVLDIAGFEIFDFNSFEQLCINFTNEKLQQFFNHHMFVLEQEEYKREGIDWVFIDFGLDLQACIELIEKPLGIMSILEEECMFPKATDLTFKEKLYMNHLGKSNNFIKPRPQIKRKFEAHFELIHYAGIVGYNISGWLEKNKDPLNNSVVALYKKSSLKVLAMIWESYVSPEEAMANKKSSGKGGGRRQKGGSFQTVSSLHRESLNRLMTNLRSTQPHFVRCIIPNEMKKPGYLDNALTLHQLRCNGVLEGIRICRKGFPSRILYAEFKQRYRILNPASIPDGQFLDSKKATEKLMASLELDVAQYRFGNTKIFFKAGMLGTLEDMRDERLTIIITRMQSRGRGKQMRVEFKKMLERKQACSLIQANIRAYLAVRNWVWMRLMFKIKPLLKSAENAKEMEQIEKEKADLEENYEREKKRRQELEDSQVSLIQDKNDLVLQLNAEQENLQDAEDRCDQLIKSKVEMESKLKDLSERLEDEEEANNDILSKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLNEEVSTLEESLERSNKEKKSLQEAHQQTLDDLQQEEDKXXXNFELEEMRSGLEQAERARKAAEAELMEVAERSNLLHTQNTALINQKRKQESEIVQIRGEVEELSEEQRHAEEKAKKAIIDAAMMAEELKKEQDQSSHLERMKKNLEQTIKDLQMRLDEAEQVALKGGRKQVHKLETRVRELENELDSEQRRSVEVTKVMRKSERRMKEVTYQADEDKKNLVRMQDLVDKLQVKVKTYKRQCEETEEQANLNLAKYRKLQHELDDAEERAEVAESSLNKLRAKARDGTSFANYKD

>Ci\_MYH3
MPFLEPTEKEKLSYAAQNYDGKKSVWVPHKKEGFVKGDLVDSSGEKCTVKTVKNETVSLKKDDIQQMNPPKFEQTADMANMTFLNEASVLHNLRSRYASLRIYTYSGLFCVCVNPYKWLPVYGVKVVHMYRGKKRSEMPPHLFSVADNAYHDMLMDRENQSILITGESGAGKTENTKKVIQYFANIAASGVQKPGEEKKANLEDQIVQTNPVLEAWGNAKTIRNNNSSRFGKFIRIHFGTSGKLSGGDIESYLLEKSRVIFQLPAERGYHIFYQIMASGRKDMLESLCVSNNPRDYHWVSQGVISVDNMNDFEEFNFTDEAFEVLGFTEEERFNCYRLTCGCMVFGSMVYKQKPRDEQAEVDTVEVADKVAHLFGISSPDLCKAITRPRVKVGTEYVQKGQNVDQCFNSTGALAKATYDKLFKWIVFRLNITLDTKLPRNYFVGVLDIAGFEIFEFNTFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWTFIDFGMDLQACIELLEKPMGVFSILEEESIVPKATDETFKNKLYEKHEKKSEAFIKPKVTKKGNAHFSVKHYAGVVDYNVDGWLNKNKDPLNDSVVQLFQKSTNKLMSAIFPETKEEPAGKKKKKGGSFQTVSALYREQLNKLMTNLRNTKPHFVRCLIPNEMKQCGIMDAALVLAQLKCNGVLEGIRICRKGFPNRLQYPEFKQRYQILAASKVANMVDSKKATETILLHIELDTALYKIGHTKIFFKAGVLADLEDQRDDILAIIMTKMQSKARGKLMRIEFKKMLERQRAAKAIQRNIRKFLQFRDWQWWKLYTKVKPLLNIVRVEDELKAKDEEIAELKDKYSHEEKLRKEYEEKCVSLLSEKNDLTLQLQAEQENLADAEERNEQLVKVKGDLEGQVGDLSERLDEEEANNVQLSASKKKLEKQCEDLGHDIEEAESNINHLEKDKQGLELKLRSLSADLEQRDDSIQRLNKEKKQLDQVNQQTLEDLQAMEDKANHLGKIKIKLEQQVEDIEDSLEQERKHKADLEKSKRKLENDLRSAQDTIMDLEKDKASLEDALRKRDFDINQLNGRIEDEQNLASQLNRKVKELQARVEETESELDMERQARSKVERNRSELVRELDQLSEQLEEAGGATQAQIELIKRRESDYLKLRRDYEEAVMQNDATVGQLKKKHQDVVNELVEQVENLSRVKNKIEKDRAQLHMELDDVTTQLEEVSKLKANVRVMEEQVTDYKFKVEENIRIVNELTIIKNKLTSESMESSHQLEEAESKVSALSRAKSNMTSMLEDLKRQLEEESKSKQSLAHALQAARHDLDLLREQVEEEQEGKAELQRALSKANAEVANWRTKYETDAIQRMEELEEAKKKLAIRLQEAEEQTETALAKCASLDKTKIRLTNEVEDLTIDLERANATISALDKKQRNFDKEISTWMLKVEELQAELDGAMRENRNYQTEIYKIKVSYEESIEQLEIVKRENKNLSEEINDLTDQLTTGGKSLHELDKARKKAELECEELRSALEEAEGALELEESRVLRLQLELTQVKADIDRKLQEKEEEFDSTRKNHQRAIESMQASLDVEIKSRTDAVRAKKKLETQLNDAEMQLDHANRNLAEQIKLVRKLQVTIKEIQDQMDEDQRIHEELREQYSIQERRLTITISELEETKSALESNERARKHAEAELLDISDRINTLSAQNSALSSAKRKLETDNEQLRGDLEDALMEAKTADERAKKATSDAARMSEELRSEQQHILSIERVKKTLEVQVHEMSIKLDEAEAYALKGGRKALAQLQARLKDVQNELEAEQRRHAETLKNYRKMDRRLKELSFQADEDQKNQVRMQELVEKLQLKLKQYKKMAEEAEEQANQNLAKYRKVVHELEEAEERAEISESALNKVRSKSRYMTSSVGGGGGGGYSYSISRKVVTTKGSSSTS

>Tr\_MYH\_M86
MSTDAEMEQYGPASIYLRKPERERIEAQNTPFDAKTAYFVAEPAEMYLKGKLIKREGGKATVETVTGKTITVKEDDIHAMNPPKYDKIEDMAMMTHLNEPAVLYNLKERFASWMIYTYSGLFCVVVNPYKWLPVYDAQVVNAYRGKKRIEAPPHIFSISDNAYQFMLTDRENQSILITGESGAGKTVNTKRVIQYFATIAVAGGGKKAEQGSGKIQGSLEDQIIAANPLLEAYGNAKTVRNDNSSRFGKFIRIHFGTTGKLASADIETYLLEKSRVTFQLSAERSYHIFYQLMTGHKPELLEALLITTNPYDYPMISQGEITVKSIDDVEEFIATDTAIDILGFTADEKINIYKLTGAVMHHGTMKFKQKQREEQAEPDGTEVADKIAYLLGLNSADMLKCLCYPRVKVGNEMVTKGQTVPQVNNAVSALCKSVYEKMFLWMVVRINEMLDTKQSRSYFIGVLDIAGFEIFDFNSLEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIDWEFIDFGMDLAACIELIEKPMGIFSILEEECMFPKASDTTFKNKLHDQHLGKTKAFEKPKPGKGKAEAHFALVHYAGTVDYNISGWLDKNKDPLNDSVVQLYQKSSNKLMSLLYAARAGDEAAAGAGKKAGKKKGGSFQTVSALFRENLGKLMTNLKSTHPHFVRCLIPNESKTPGLMENFLVIHQLRCNGVLEGIRICRKGFPSRILYGDFKQRYKVLNASVIPEGQFIDNKKASEKLLGSIDVDHTQYKFGHTKVFFKAGLLGTLEEMRDEKLAELVTMTQALCRGYLMRKEFVKMMERRESLFTIQYNVRSFMNVKNWPWLKLYFKIKPLLKSAETEKELAQMKDNYEKMQSDLATALAKKKELEEKMVSLLQEKNDLQLQVASEFDNLSDAEERCEGLIKSKIQLEAKLKETTERLEDEEEINAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMASQDESIAKLTKEKKALQESHQQTLDDLQAEEDKVNTLTKAKTKLEQQVDDLEGSLEQEKKLRMDLERAKRKLEGDLKLAQESIMDLENEKQQSDEKIKKRDFEISQLLSKIEDEQSLGAQLQKKIKELQARIEELEEEIEAERAARAKVEKQRADLSRELEEISERLEEAGGATAAQIEMNKKREAEFQKMRRDLEESTLQHEATAAALRKKQADSVAELGEQIDNLQRVKQKLEKEKSEYKMEIDDLSSNMEAVAKSKGNLEKMCRTLEDQLSELKSKNDENVRQLNDINAQRARLQTENGEFGRQLEEKEALVSQLTRGKQAFTQQIEELKRHVEEEVKAKNALAHGVQSARHDCDLLREQYEEEQEAKAELQRAMSKANSEVAQWRSKYETDAIQRTEELEEAKKKLAQRLQDAEESIEAVNSKCASLEKTKQRLQGEVEDLMIDVERANSLAANLDKKQRNFDNFLAEWKQKYEEGQAELEGAQKEARSLSTELFKMKNSYEEALDHLETMKRENKNLQQEISDLTEQIGETGKSIHELEKSKKTVETEKSEIQAALEEAEGTLEHEEAKILRVQLELNQIKGEVDRKLAEKDEEMEQIKRNSQRVIDSMQSTLDAEVRSRNDALRVKNKMEGDLNEMEIQLSHANRQAAEAQKQLRNVQGQLKDAQLHLDDAVRGQEDMKEQFAMVERRNGLMMAEIEELRAALEQTERGRKVAEQELVDASERVGLLHSQNTSLINTKKKLEADLVQVQGEVDDSIQEARNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNLEVTVKDLQHRLDEAESLAMKGGKKQLQKLESRVRELEAEVEAEQRRGVDAVKGVRKYERRVKELTYQTEEDKKNVSRLQDLVDKLQLKVKAYKRQAEEAEEQANTHMSRLRKVQHEMEEAQERADIAESQVNKLRVKSRDMGKSDSAE

>Tr\_MYH\_M2528
MGDAEMECFGPAAIYLRKPERERMEAQNTPFDAKSAYFVVEPKEMYLKGKLVKKEGGKATVETLCGKSITVKDTEIFPMNPPKFDKIEDMAMMTHLSEPSVLYNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYDSMVVAGYRGKKRVEAPPHIFSISDNAYQFMLTDRENQSILITGESGAGKTVNTKRVIQYFATIAVAGGKKEPVPGKMQGSLEDQIIAANPLLEAYGNAKTVRNDNSSRFGKFIRIHFATTGKLASADIETYLLEKSRVTFQLSAERSYHIFYQLMTGHKPELIEALLITTNPYDYHMISQGEITVKSINDIEEFIATDTAIDILGFTGEEKISMYKLTGAVMQHGNMKFKQKQREEQAEPDGSEVADKIAYLMGLNSADLLKALCYPRVKVGNEFVTKGQTVPQVNNSVMALCKSVYEKMFLWMVVRINEMLDTKQSRQFFIGVLDIAGFEIFDYNSLEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWEFIDFGMDLAACIELIEKPMGIFSILEEECMFPKATDMTFKNKLYDQHLGKTKCFEKPKPAKGKAEAHFSLVHYAGTVDYNITGWLDKNKDPLNDSVVQLYQKSSVKLLSFLYASHASSEAETGGGGKKGGKKKGGSFQTVSALFRENLGKLMTNLRSTHPHFVRCLIPNESKTPGLMENFLVIHQLRCNGVLEGIRICRKGFPSRILYGDFKQRYKVLNASVIPEGQFIDNKKASEKLLGSIDVDHTQYRFGHTKVFFKAGLLGVLEEMRDEKLAELVTMTQALCRGFLMRREFVKMMERRDAIFTIQYNIRAFMNVKTWPWMKLYFKIKPLLKSAETEKEMAQMKEDFEKTKEDLSKALSKKKELEEKMVSLLQEKNDLLLQVQTESENLSDAEERCEGLIKAKIQLEAKKETTERLEDEEEINAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMASQDEAIAKLSKEKKALQEAHQQTLDDLQAEEDKVNTLTKAKTKLEQQVDDLEGSLEQEKKLRMDLERAKRKLEGDLKLAQESIMDLENDKQQSDEKIKKKDFEISQLLNKIEDEQTLGIQLQKKIKELQARIEELEEEIEAERAARAKVEKQRSDLSRELEEISERLEEAGGATSAQIEMNKKREAEFQKLRRDLEESTLQHEATAAALRKKQADSVAELGEQIDNLQRVKQKLEKEKSEYKMEIDDLSSNMEAIAKSKSNLEKMCRTLEDQLSELKSKNDENVRQLNDASTQKSRLQTENGEYLRQLEEKEALVSQLTRGKQAYTQQIDELKRHIEEEVKAKSALAHAVQSSRHDCELLREQYEEEQEAKAELQRSMSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQDAEESIEAANSKCASLEKTKQRLQGEVEDLMIDVERANAVAASLDKKQRNFDKVLAEWKQKYEESQAELEGAQKEARSLSTELFKMKNSYEEALDHLETLKRENKNLQHEISDLSEQLGETGKTIHELEKGKKTVEGEKAEIQTALEEAEATLEHEESKILRVQLELTQIKSEIDRKLAEKDEEIEQIKRNSQRVIESMQSTLDAEVRSRNDALRIKKKMEGDLNEMEIQLSHANRQAAEAQKQLRNIQGQLKDAQLHLDEALRGQDDMKEQVAMVERRNNLMLAEIEELRAALEQTERSRKVAEQELVDASERVGLLHSQNTSLINTKKKLEGDLVQIQGEVEEAVQEARNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNLEVTVKDLQHRLDEAENLAMKGGKKQLQKLEARVRELEGEVEAEQRRGADAIKGVRKYERRVKELTYQTEEDKKNVARLQDLVDKLQLKVKAYKRQAEEAEEQANTHLSKYRKVQHELEEAQERADIAESQVNKLRAKSREIGK

>Tr\_MYH\_M1034
MGDAEMECYGPAAVFLRKPEKERIEAQNTPFDAKTAYFVTEPKEMYLKGKLIKKEGGKATVETLCKKTITVKDDEIFPMNPPKFDKIEDMAMMTHLSEPTVLYNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYDSVVVAGYRGKKRIEAPPHIFSISDNAYQFMLQDRENQSILITGESGAGKTVNTKRVIQYFATIAVAGGKKEQQSSSKMQGSLEDQIIAANPLLEAYGNAKTVRNDNSSRFGKFIRIHFGTTGKLASADIETYLLEKSRVTFQLSAERSYHIFYQLATGHKPELIEALLITTNPYDFPMISHGEITVKSIDDIEEFIATDTAIDILGFTAEEKASMYKLTGAVMHHGNMKFKQKQREEQAEPDGTEVADKIAYLMGLNSADLLKALCYPRVKVGNEFVTKGQTVPQVNNSVMALSKSVYEKMFLWMVVRINEMLDTRQSRSFFIGVLDIAGFEIFDYNSLEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWEFIDFGMDLAACIELIEKPMGIFSILEEECMFPKATDMTFKNKLYDQHLGKSAPFQKPKPAKGKAEAHFSLMHYAGTVDYNVTGWLDKNKDPLNDSVVQLYQKSSVKLLAYLYAAHGGAEEGGGAKKGKKKGGSFQTVSGLFRENLGKLMTNLRSTHPHFVRCLIPNESKTPGLMENFLVIHQLRCNGVLEGIRICRKGFPSRILYGDFKQRYKVLNASVIPEGQFIDNKKASEKLLGSIDVDHTQYKFGHTKVFFKAGLLGTLEEMRDEKLVELVTMTQALCRAYLMRREFVKMMERRESLFTIQYNIRSFMNVKTWPWMKLYFKIKPLLKSAEAEKEMAQMKEDFEKTKEDLAKALAKKKELEEKMVSLLQEKNDLQLQIQSESETLSDAEERCEGLIKAKIQLEAKAKETAERLEDEEEINAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLVEEMASQDEAIAKLSKEKKALQEAHQQTLDDLQAEEDKVNTLTKAKTKLEQQVDDLEGSLEQEKKLRMDLERAKRKLEGDLKLAQESIMDLENDKQQSDEKIKKKDFEISQFLSRIEDEQALSIQFQKKIKELQARIEELEEEIEAERAARAKVEKQRSDLSRELEEISERLEEAGGATSVQIEMNKKREAEFQKLRRDLEESTLQHEATAAALRKKQADTTAELGDQIDNLQRVKQKLEKEKSEYKMEIDDLSSNMEAIAKSKTHLEKLCRTLEDQMSEMKTKSDENVRQLNDIGLQRARLQTENGEISRQLEEKETLVSQLTRSKQAFIQQIEELKRHIEEEVKAKNALAHAVQSSRHDCELLREQYEEEQEAKAELQRSMSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQDAEESIEAVNAKCASLEKTKQRLQGEVEDLMIDVDRANALAASLDKKQRNFDKVLAEWKQKYEESQAELEGAQKEARSLSTEMFKMKNSYEEALDHLETLKRENKNLQQEISDLTEQIGETGKTIHELEKGKKTAESEKCELQTSLEEAEATLEHEESKILRIQLELTQVKSEIDRKIAEKDEEIEQIKRNSQRVIESMQSTLDAEIRSRNDALRIKKKMEGDLNEMEIQLSHANRQAAEAQKQLRNVQGQLKDAQLHLDEAIRGQEEMKEQVAMVERRNNLMLAEIEELRAALEQTERSRKVAEQELVDASERVGLLHSQNTSLINTKKKLEADLIQIQGEVEDSIQEARNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNLEVTVKDLQHRLDEAENLAMKGGKKQLQKLEARVRELEGEVEAEQKRGADAIKGVRKYERRVKELTYQTEEDKKNLVRLQDLVDKLQLKMKSYKRQAEDAEEQANSHLTRYRKVQHELEEAQERADIAESQVNKLRVKSREIVK

>Tr\_MYH\_M743
MSTDAEMAIYGKAAIYLRKPEKERIEAQNKPFDAKSACYVTDTKELYLKGTILKKDGAKVTVKVLGTEEERTVKEDDVTPMNPPKFDKIEDMAMMTHLNEASVLYNLKERYAAWMIYTYSGLFCATVNPYKWLPVYDSEVVSAYRGKKRMEAPPHIFSVSDNAYQNMLTDRENQSVLITGESGAGKTVNTKRVIQYFATIAVGGGEKKKESKMGGSLEDQIIAANPLLEAYGNAKTVRNDNSSRFGKFIRIHFGTSGKLSSADIETYLLEKSRVTFQLPDERGYHIFYQMMTNHKPELIEMSLITTNPYDFPMCSMGQITVASIDDKVELEATDNAIDILGFTHEEKMSIYKMTGAVLHHGNMKFKQKQREEQAEPDGTEDADKVAYLLGLNSADMLKALCYPRVKVGNEFVTKGQTVPQVNNSVPALAKSIYERMFLWMVVRINQMLDTKQPRQFFIGVLDIAGFEIFDYNSMEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIHWEFIDFGMDLAACIELIEKPMGIFSILEEECMFPKATDTSFKNKLYDQHLGKNKAFEKPKPAKGKAEAHFSLVHYAGTVDYNISGWLDKNKDPLNESVVQLYQKSPVKLLSTLYPPVVDEPAGGKKGGKKKGGSMQTVSSQFRENLGKLMTNLRSTHPHFVRCLIPNESKTPGLMENFLVIHQLRCNGVLEGIRICRKGFPSRIVYGDFKQRYKVLNASVIPEGQFIDNKKASEKLLGSIDVDHDQYRFGHTKVFFKAGLLGTLEEMRDDKLAALVTMTQALCRGYLMRKEFVKMTARRDAIYTIQYNVRSFMNVKNWPWMHVYYKIKPLLKSAETEKELAQMKENYEKMQTDLAAALAKKKELEEKMVSLLQEKNDLQLQVASESENLSDAEERCEGLIKSKIQLEAKLKETTERLEDEEEINAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMASQDESIAKLTKEKKALQEAHQQTLDDLQAEEDKVNTLTKAKTKLEQQVDDLEGSLEQEKKLRMDLERAKRKLEGDLKLAQESIMDLENDKQQSDEKMKKKDFEISQLLSKIEDEQSLGAQLQKKIKELQARIEELEEEIEAERAARAKVEKQRADLSRELEEISERLEEAGGATAAQIEMNKKREAEFQKLRRDLEESTLQHEATAAALRKKQADSVAELGEQIDNLQRVKQKLEKEKSEYKMEIDDLSSNMEAVAKAKGNLEKMCRTLEDQLSELKTKNDENVRQINDLGAQKARLLTENGEFGRQIEEKEALVSQLTRGKQAFTQQIDELKRQIEEEVKAKNALAHGLQSARHDCDLLREQFEEEQEAKAELQRGMSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQEAEEQIEAVNSKCASLEKTKQRLQSEVEDLMIDVERANGLAANLDKKQRNFDKVLAEWKQKYEEGQAELEGAQKEARSLGTELFKMKNSYEEALDQLETMKRENKNLQQEISDLTEQIGETGKSIHELEKAKKQVETEKAEIQTALEEAEGTLEHEESKILRVQLELNQIKGEIDRKLAEKDEEIEQIKRNSQRVTDSMQSTLDSEVRSRNDALRIKKKMEGDLNEMEIQLSHANRQAAESQKQLRNVQAQLKDAQLHLDDAVRAQEDLKEQAAMVDRRNGLMIAEIEELRAALEQTERSRKVAEQELVDASERVGLLHSQNTSLMNTKKKLESDLVQIQSEVDDTVQEARNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNLEVAVKDLQHRLDEAENLAMKGGKKQLQKLESRVRELETEVETEQRRGADAVKGVRKYERRVKELTYQTEEDKKNVTRLQDLVDKLQLKVKAYKRHSEEAEEQANVHLSKCRKLQHELEEAEERADIAESQVNKLRAKSRDSGKGKDAAE

>Tr\_MYH\_M454
MSSDAEMAQYGPAAVYLRKPEKERLEAQNRPFDARTACFVPDAKELYVKGIVQSREGGQVIVKTQADETVKVKEEDCLPMNPPKYDKIEDMAMMTHLNEPSVLFNLKERYAAWMIYTYSGLFCATVNPYKWLPVYDPQVVAAYRGKKRMEAPPHIFSVSDNAYQNMLTDRENQSVLITGESGAGKTVNTKRVIQYFATIAVSGGDKKEQSGKMQGTLEDQIISANPLLEAFGNAKTVRNDNSSRFGKFIRIHFGTTGKLSSADIETYLLEKSRVTFQLSEERSYHIFYQIMTGHKPELIEMLLITTNPYDFPMISQGQISVQSIDDKEELLATDMATDILGFTNEEKVSIYKLTGAVMHYGNMKFKQKQREEQAEPDGTEVADKVAFLMGLNSADLLKGLCYPRVKVGNEYVTKGQTVPQVTNAVGALAKSVYEKMFLWMVIRINEMLDTKQPRQFFIGVLDIAGFEIFDFNSMEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIDWEFIDFGMDLAACIELIEKPMGIFSILEEECMFPKATDVSFKNKLYDQHLGKNNAFQKPKVVKGKPEAHFSLLHYAGTVDYNISGWLEKNKDPLNESVVQLYQKSSIKLLAVLYASFSGAEAGGKKGGKKKSGSFQTVSAVFRENLGKLMTNLRSTHPHFVRCLIPNESKTPGIMDNHLVIHQLRCNGVLEGIRICRKGFPSRILYADFKQRYRILNASAIPEGQFIDGKKASEKLLGSIDVDHTQYRFGSTKVFFKAGLLGTLEELRDEKLASLVTQTQALCRGYVMRKEFNNLIARRDCVWILQYNLRSFMSVKHWPWMKLFFKIKPLLKSAKTEKEMATMKDDFIKCKDDLAKSEAKRKELEEKMVSLLQEKNNLLLQVQSDSENLCDAEERCEGLIKSKIQLEAKLKEVSERLEDEEDVTAELTAKKRKLEDECSELKKDIDDLEMTLAKVEKEKHATENKMKNLMDELSGQDENIGKLTKEKRALQEAHQQVLDDLQAEEDKVNTLTKAKSKLEQQVNDLEGSLEQEKKIRMDLERAKRKLEGDLKITQESVMDLENDKQQSEEKIKKKEFENNQLLSKIADEQAMNNQLQKKMKELHARIEELEEEVEAERAVRAKIEKQRSDLLREIEEISERLEEAGGATTAQVEINKRREAEFLKLRRDLEESTLHHEATTAALRKKHADSMAELGEQVDNLQRIRQKLEKEKSELKMEIDDLSINMENVAKAKVNLEKMCRSLEDQQMELKTKNDEHMRQLTDVINQRARFQTENAEFSRQMEERESLISQLTRGKQGFTTQIDELKRLIDEESKAKNALAHSLQSARHDCDLLREQFEEEQEAKAELQRSLSKANSEVALWRNKYETDAIQRTEELEEAKKKLAQRLQEAEEQIEAVNSKCASLEKTKQRLQSEMEDLMVDMEKSNSVATSLDKRQRNFDKIQAEWKQKYEESQAELESLQKESRSLNTELFKLKNSYEEALDHLETMKRENKNLQQEVSDLTEQVGESGKTIHELEKFKKQAETEKYEMQTSLEEAEASVEQEESKILRVQMEFNQVKAEIDRKLAEKDEEMDQMKRNHQRVMESIQATLDAEVRSRNDALRVKKKMECDLNEMEIQMSHANRQAAEAQKQLRNIQGQLKDAQIHLDDSTRGQDDMKEQVAMMERRTALLQAEVEELRAAVEQTERSRKLAEQELVDASERAGLLHSQNTSLLNTKKKLESDITQLHSEIEEALQEARNVEEKAKKAITDAAMMAEELRKEQDTSANLERMKKNLEATVKDLQHRLDEAENLAMKGGKKQLQKLEARVRELETELEAEQKRCSEAVKGVRKYERKVKELTYQSDEDKKNNIRLQDLVDKLQNKMKIYKRQAEEAEEQSNVHASRFRKVQHDLEEAEERADTAESLANRMRAKSREIGSK

>Lc\_MYH1
MGDLHEFGKAAPFLRKSEKERLEAQTRPFDMKKNCFVDDPKIEFVKATIKSSEGGKVTVDTENGQTVTVREDQVHQMNPPKFDKIEDMVMLTFLNEPSVLFNLKERYAAWMIYTYSGLFCVTVNPYKMLPVYDPIVVAGYRGKKRQEAPPHIFSISDNAYQFMLSDRENQSILITGESGAGKTVNTKRVIQYFATIAALGDSAKKKQEGKIKGTLEDQIVEANPLMEAFGNAKTVRNDNSSRFGKFIRIHFGATGKLASADIETYLLEKSRVTFQLPTERNYHIFFQILSQQKPELLDMLLVTTNPYDYPFISQGEITVSSIDDKEELMATDSAIEILGFTNEEKMSIYKLTGSIMHYGNMKFKQKQREEQAEPDGSEDADKACFLMGINSADLLKALCLPRVKVGNEYVTKGQTVPQVYNNIGALGKACFERLFLWMVIRINQSLDTKQARQHFIGVLDIAGFEIFDFNTFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIDWVFIDFGMDLQACIDLIEKPLGIMSILEEQCMFPKANDQTFKEKLYDQHLGKNKFFQKPKPSKGKHEAHFSLGHYAGNVDYNIAGWLEKNKDPLNDSVVQVYQKASLKVLGALFATFAGADADSGAKKGKKKGSSFQTVSALHRENLSKLMTNLKTTHPHFVRCLIPNETKTPGTMDNNLVMHQLRCNGVLEGIRICRKGFPNRIVYGDFKQRYRVLNPNAMPEGQFVDSKKACEKLMASLELDETQYKFGHTKVFFRAGLLGTLEEMRDDRLSLLLTRTQALGRGYLSRVEFKKMLERRESLIVIQYNIRAFMGVKNWPWMNLYFKIKPLLKSAESEKEMANMKEEFIKTKEALEKSEARRKELEEKMISVVQEKNDLLMQVQSGEDSINDSEERCDQLIKAKIQLESKLKEMQERIEEEEEMNSELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMAVLDENVSKLTKEKKALQEAHQQTLDDLQAEEDKVNSLTKAKAKLEQQVDDLEGSLEQEKKVRMDIERTKRKLEGDFKMAQESIMDLENDKQQIDEKTKKKDFEISQLNSKIEDELALSAQLQKKIKELQARIEELEEEIEAERAARAKVEKQRSDLSRELEEISERLEEAGGATSAQIEMNKKREAEFQKLRRDLEESTLQHEATAAALRKKQADSVAELGEQIDNLQRVKQKLEKEKSEFKMEVDDLSSNMEQITKSKVNLEKLSRSLEDQLSELKTKDDENIRTINDITAQRARLQTESGELTRKLEEKEVLVVQLSRGKQSYTQQVEDLKRQLEEEVKAKNALAHAVQSARHDCDLLREQFDEEQEAKGELQRAMSKANAEVAQWRTKYETDAIQRTEELEDAKKKLAARLQDAEEQVEAANSKCASLEKTKQRLQGEVEDLMIDVERAHSAAAALDKKQKAFDKVLSEWKQKFEESQAELEAAQKESRSLGTELFKLKNAYEETLDHLETFKRENKNLQEEISDLTEQLGESSKSLHELEKNRKAIEQEKSDIQAALEEAEASLEHEEGKILRVQLELNQVKAEVDRKIAEKDEEIDQIKRGFQRTVESMQATLDSETKSRNEALRLKKKMEGDLNEMEIQLNHANRQAAESQKHLRNVQGQIKDLQVHLDDALRANEDHKEQAAMLERRNNLLVAEVEEMRSALEQTEKARKLAEQELLGATERVQLLHSQNTSLINTKRKLEGDLSQLQSEVEESIQESRNADEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTVKDLQHRLDEAEQIAMKGGKKQLQKLETRVRELESELDAEQRRTAETIKGSRKYERRIKELSYQTEEDRKNNLRLQDLVDKLQLKVKAYKRQSEESEEQANTNLSKYRKLQHELEEADERADIAESQVNKLRARSRDSGVVKAGESE

>Lc\_MYH2
MGDLHEFGKAAPFLRKSEKERLEAQTRPFDMKKECYVDDPKVEFVKATIKSSEGGKVTVDTETGQTVTVKDSQVHQMNPPKFDKIEDMAMLTFLNEPSVLFNLKERYAAWMIYTYSGLFCVTINPYKWLPVYDPIVVAGYRGKKRQEAPPHIFSISDNAYQFMLTDRENQSILITGESGAGKTVNTKRVIQYFATIAALGDATKKKEESRKGTLEDQIVEANPLMEAFGNAKTVRNDNSSRFGKFIRIHFGATGKLSSADIETYLLEKSRVTFQLPTERNYHIFYQIESQKKPELLEMLLITNNPYDYVFISQGEITVPSLDDGDELMATDSAIDILGFTNDEKLSIYKVTGALMHYGNMKFKQKQREEQAEPDGNEDADKAAYLMGLNSADLLKGLCYPRVKVGNEYVTKGQTVQQVHNSVGALARSVFEKMFLWMVIRINETLATKLARQHFIGVLDIAGFEIFDFNTFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIDWVFIDFGMDLQACIDLIEKPMGIMSILEEQCMFPKANDQTFKEKLYDQHLGKNQFFQKPKPSKGKHEAHFSLGHYAGNVDYNIGGWLEKNKDPLNDSVVQLYQKSSLKMLAAVYATYASVDSDTGSKGGKKKKGSSFQTVSALHRENLNKLMTNLKTTHPHFVRCIIPNETKTPGTMDNILVMHQLRCNGVLEGIRICRKGFPNRIVYGDFKQRYRVLNPNAIPEGQFMDSKKACEKLMASLELDDTQYKFGHTKVFFRAGLLGTLEEMRDDRLSLLLTRTQALARGYLSRVEFKKMLERRESLIIIQYNIRAFMGVKNWPWMNLYFKIKPLLKSAESEKEMANMKEEFIKTKEALEKSETRRKELEEKMISVMQDKNDLLIQVQSSEETLNDAEERCDQLIKTKIQLEGKIKEIQERVEEEEEMNAEITAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMAVLDENVSKLTKEKKALQEAHQQTLDDLQAEEDKVNSLTKAKAKLEQQVDDLEGSLEQEKKVRMDVERTKRKMEGDLKLAQESLMDLENDKQQLDEKLKKKDFEMSQLNSRIEDEVSLSAQLQKKIKELQARIEELEEEIEAERAARAKVEKQRSDLSRELEEISERLEEAGGATSAQIEMNKKREAEFQKLRRDLEEATLQHEATAAALRKKQADSVAELGEQIDNLQRVKQKLEKEKSEFKMEVDDLSSNLEQVTKAKVNLEKLCRTIEDQLAEVKTKEEEQIRSINDINTQRARLLAENGELSRKLEEKEVLVVQLSRGKLSYTQQVEDLKRQLEEEIKAKNALAHAVQSARHDCDLLREQFDEEQEAKGELQRAMSKANAEVAQWRTKYETDAIQKTEELEEAKKKLAARLQEAEEQVEASNSKCASLEKTKQRLLGEVEDLMIDVERAHSAAAALDKKQKAFDKILSEWKQKYEESQSELEASQKESRSLSTEVFKLKNAYEETLDHLETLKRENKNLQEEISDLTEQLGESGKALHEVEKSRKQLEQEKLEIQAALEEAEASLEHEEGKILRIQLELNQVKADIDRKIAEKDEELDQLKRSNQRTVESMQASLDAETKSRNEALRLKKKMEGDLNEMEIQLNHANRQAAESQKHLRNVQGQIKDLQVHLDDTLRSNDDLKEQVAMIERRNNLLLAEVEEMRTALEQTERARKVAEQELLGATERVQLLHSQNTSLINTKRKLEGDIVQLQNECEEAIQESRNADEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTVKDLQNRLDEAEQIAMKGGKKQIQKLETRVRELESELDSEQRRIAETIKGARKYERRVKELTYQAEEDRKNNLRLQDLVDKLQLKVKTYKRQSEEAEEQANTNLSKYRKMQHELEEADERADIAESQVNKLRARSRDVHPTKAEAE

>Lc\_MYH5
MGDLRDFGEAAPFLRKSEKERLEAQHRPFDTKKEVYVVDVKDMYVKATIKSSDGGKVTVETEDGRTVTVKAEDVHQMNPPKFDKIEDMAMLTFLNEAAVLYNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYNKEVVAGYRGKKRQEAPPHIYSISDNAYQSMLTDRENQSVLITGESGAGKTVNTKRVIQYFATIAALGEATKKEASQSQMKMTLEDQIVQANPLMEAFGNAKTVRNDNSSRFGKFIRIHFGASGKLASCDIETYLLEKSRVTFQLPTERNYHIFFQIISQQKPELIDMLLITTNPYDYVFISQGEITVASIDDKEELMATDSAIDILGFTNDEKLSIYKLTGSIMHYGNMKFKQKQREEQAEPDGVEDADKACYLMGINSADLLKALCYPRVKVGNEVVTKGQTVKQVYNNIGALAKTVFEKLFLWMVIRINQSLDTKKARQHFIGVLDIAGFEIFDYNTFEQLCINFTNERLQQFFNHHMFVQEQEEYKKEGIDWEFIDFGMDLQACIDLIEKPMGIMSILEEQCMFPKSNDSTFKEKLYDQHLGKSSFFQKPKPSKGKHEAHFTLGHYAGNVDYNIAGWLEKNKDPLNDSVVQIYQKASLKVLGALFANFASADADAAGAKKAKKKGSSFQTVSALHRENLNKLMTNLKTTHPHFVRCLIPNETKTPGVMDNNLVMHQLRCNGVLEGIRICRKGFPNRILYGDFKQRYRILNPSAMPDGQFIDNKTGCEKLMDSLQLDNLQYKFGYTKIVFRAGLLGTLEEMRDDRLSLLLTRTQAVTRGYLMRKKMKQLMETRDSIIVIQYNIRVFMGVKNWPWMNLYFKIKPLLKSAESEKEMANMKEEFIKTKEALEKSEARRKELEEKMISVVQEKHDLLMQVESVEGTMSDAEERCNELIKSKIHLEAKLKEAQERADEEEELNAELTTKKRAFEDECSELKKDIDDLELTLAKVEREKHATENKVKTLSEEMAALEENIAKLTKEKKALQEAHQQTLDDLQAEEDKVNSLTKAKAKLEQQVDELEGSLEQEKKTRMDVERAKRKVDGDFKMSQEAVTDLENDKQQLEEKMKKKDVEIGQTNSKMQDEMALSAQLQKKIKELQARIEELEEEIEAERAARAKVEKQRSDLSRELEEISERLEEAGGATSAQIEMNKKREAEFQKLRRDLEEATLQHEATAAALRKKQADSVAELGEQIDNLQRVKQKLEKEKSEFKMEVDDLSSNMEQITKSKINFERLSKSLEDQISDLKSINEEKLHSVNELTTQKARMQTEVGELSRKLEEKETLTGQLSRVKQCNSQQIEDLKRQLEDEVKAKNALAHAVQSARHDCDLLREQFDEEQEAKGELQRAMSKANAEVAQWRTKYETDAIQKTEELEEAKKKIAVRLQEAEEHIETANAKCASLEKTKQRLQAEIEDLTTDVERAHSAATALDKKQKSFDKVMSEWKHKCEESQAELEGSQKEARSLSTELFKIKNAYEEALDQLETVKRENKNLQEEIFDLTEQLGESGKNVHELDKYRKQLEQDQAGLQASLEEAEASLEHEGGKILRVQLELNQVKAEVDRKIAEKDEEIDQIKRGFQRTVESMQATLDSETKSRNEALRLKKKMEGDLNEMEIQLNHANRQAAESQKHLRNAQNQMKDLQVHLDEALHGNEDLTEQNAMMRRRSDLLQAEIEETRSALEQTEKSRRVSEQELLATTERVQLLHSQNMCLINSKKKLESDLFQLQSEAEEALLESRSSEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTVKDLQHRLDEAEQIAMKGGKKHIQKLEARVHELEAEVDAGQRRNSEAVKGTRKYESKIKELSFQAEEDRKNLLRLQDLVDKLQLKVKAYKRHSEEAEEQANVSLSKFRTLQHELDEAQERADVAESQVNKLRAKSRDVASQKVRSDAEE

> Tr\_Myh6/7
MGDAAMSEFGAAAPYLRKSDKERLEAQTRVFDMKKECFVPDPEIEYIKASITNREGDKVTVNTAGGKTVTVKECDVHTQNPPKFDKIEDMAMFTFLHEPAVLFNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYNQEVVVAYRGKKRTEAPPHIFSISDNAYQYMLTDRENQSILITGESGAGKTVNTKRVIQYFASIAAGGGKKEGNPDKKGTLEDQIIQANPALEAFGNAKTIRNDNSSRFGKFIRIHFAASGKLASADIETYLLEKSRVTFQLKAERDYHIFYQILSQKKPELLEMMLITNNPYDYAYISQGETTVTSINDAEELMATDSAFDVLGFTQEEKNSVYKLIGAIMHYGNMKFKQKQREEQAEADGTEDADKSAYLMGLNSADLIKGLCHPRVKVGNEWVTKGQNVQQVNYAIGALSKSVYEKMFLWMVVRINQSLDTRQPRQYFIGVLDIAGFEIFDFNTFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWTFIDFGMDLQACIDLIEKPMGIMSILEEECMFPKASDATFKAKLYDNHLGKSANFQKPRIVKGKPEAHFALMHYAGTVDYNINNWLVKNKDPLNETVVALYQKSNLKLLSILFANYSGADAAMTEGTEGKKEKKKKGSSFQTVSALHRENLNKLMTNLRSTHPHFVRCIIPNETKTPGAMENPLVMHQLRCNGVLEGIRICRKGFPNRILYGDFKQRYRILNPAAIPEGQFIDSRKGAEKLLGSLDIDHNQYKFGHTKVFFKAGLLGLLEEMRDERLSKIITAIQARSRGLLSRIEYQKIVERRDALLVIQWNVRAFMGVKNWPWMKLYFKIKPLLRSAEAEKEMANMKEEFLKLKEAFAKSEARRKELEEKMVTLLQEKNDLQLQVQAEQDNLCDAEERCEGLIKNKIQLEAKSKELTERLEDEEEMNAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMAALDEIIAKLTKEKKALQEAHQQTLDDLQSEEDKVNTLTKAKTKLEQQVDDLEGSLEQEKKIRMDLERAKRKLEGDLKLTQETVMDLENDKQQLEERLKKKDFEISQLNGKIEDEQAIIIQLQKKLKELQARVEELEEELEAERAARAKVEKQRADLARELEEISERLEEAGGATTLQIEMNKKREAEFLKLRRDLEEATLQHEATAAALRKKQADSVADLGEQIDNLQRVKQKLEKEKSELRLELDDVVSNMEQIVKSKTNLEKTCRTLEDQMNDYRSKCDEYQRTIHDFTTQKAKLQAENDEFTRQADDKESLISQLTRGKNSYTQQLEDIKRQLEEEVKAKNALAHALQSARHDCDLLREQYEEEQEAKAELQRSMSKANSEVAQWRTKYETDAIQRTEELEEAKKKLXQRLQEAEEAVEAVNAKCSSLEKTKHRLQNEIEDLMVDVERSNAAAAALDKKQRNFDKVLSEWKQKYEESQCELEGSQKEARALSTELFKLKNSYEESLDHLETMKRENKNLQEEISDLSEQLSEGGKSIHELEKLRKQLEQEKNEIQSALEEAEASLEHEEGKILRAQLEFNQVKADIERKLAEKDEEMEQSKRNLQRTIDTLQSSLEAECRSRNEALRLKKKMEGDLNEMEIQLSQANRQAAEAQKQLKSVHAHLKDCQIQLDEAMRANDEMKENIAIVERRNNLLQAEVEELRAALEQTERSRKLAEQELLDVSERVQLLHSQNTGLINQKKKLEVDASQLQTEVEEAVQECRNAEDKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTIKDLQHRLDEAEQIAMKGGKKQVQKLEARVRDLETEVEMEQKKSSEALKGIRKYERRIKELTYQTEEDRKNVVRLQDLVDKLQMKVKAYKRAAEEAEEQANTHLGKFRKLQHELDEAEERADIAESQVNKLRAKSRDVGSKVRGL

>Tr\_Myh5
MPLFDTTEFGEAAPYLRKSDQELLTSRTIAFDGKKRAWIPDDKEAYIEIEIKELKGDKVIVETKDGRTLTVKDGDIQQMNPPKYDMMEDMAMLTHLNEASVLYNLRRRYSAWMIYTYSGLFCVTVNPYKWLPVYTAPVVAAYKGKRRSESPPHIYSIADNAYNDMLRNRENQSMLITGESGAGKTVNTKRVIQYFAIVAALGDTTAKKGGTLEDQIIEANPAMEAFGNAKTIRNDNSSRFGKFIRIHFGHTGKLASSDIDIYLLEKSRVIFQQPGERSYHIYYQIMSQKKPELLDMLLVSSNPYDYHFCSQGVTTVESMDDGQELMATDHAMDILGFLPDEKYGCYKIVGAIMHFGNMKFKQKQREEQAEADGTESADKASYLMGVSSADLMKGLLHPRVKVGNEYVVKGQNVEQVNYAVGALAKATYDRMFKWLVGRINRTLYTSLPRQYFIGVLDIAGFEIFELNSFEQLCINFTNEKLQQFFNHHMFILEQEEYKREGIEWTFIDFGLDLQACIDLIEKPMGIMSILEEECMFPKATDYSFKAKLYDNHIGKSPNFQKPRPDKKRKYEAHFELVHYAGVVPYNIVGWLDKNKDPLNETVVACFQKSANKLLACLYENYVGSDSASDHKTGIKEKRKKAASFQTVSQVHKENLNKLMTNLRSTQPHFVRCIIPNETKTPGIIDPFLVLHQLRCNGVLEGIRICRKGFPNRIFYAEFKQRYRILNPQAIPDDKFVDSRKGAEKLLSTLDIDHIQYRFGHTKVFFKAGLLGHLEEMRDERLAKVLTLLQAAARGKIMRMELRKMTERRDALMIIQWNIRAFNAVKHWPWMKLFFKIKPLLKSATTEKELASLKEELAKLKEALEKSEVKRKELEERQVSLIQEKNDLALQLQAEQDNLADAEERCDLLIKTKIHLEAKVKEIMERLEDEEEINTSILASKRKLEDECAELKKDIDDLEITLAKVEKEKHATENKVKNLIEEMAALDETILKLSKEKKALQEAHQQTLDDLQAEEDKVNTLTKAKIKLEQQVDDLEGSLEQEKKLRMDLERAKRKLEGDVKLSLESIMDLENDKQQLEEKLKKKDFEMNELSTRVEDEQALVNQLQKKIKELQARTEELEEELESERACRAKVEKQRSEVARELEELSERLEEAGGATSAQIEMNKKREADFLKLRRDLEEAMLHHEATTAALRKKHADSVAELSEQIDSLQRVKQKLEKERSEAKMEIDDLASTVEQLSKNKASAEKTCRLYEDQMNEAKAKVDELQRQLNDSNSQRARAQTESGELSRKLEEREAMVAQLQRSKNSFSQSVEELKKQLEEENKAKSSLAHALQSSRHDCDLLREQYEEEQEAKGELQRALSKANAEVAQWRTKYETDAIQRTEELEEAKKKLVMRLQEAEETVEGSNAKCSSLEKTKHRLQTEIEDLVVDLERANAAATALDKKQRNFDKVLAECRQKYEECQSELEASQKESRGLSTELFKLKNSYXESLDHLETVKRENKNLQEEIADLTDQISQGAKTIHELEKMKKGLELEKSEIQAALEEVEGTLEHEESKTLRIQLELNQMKADVDRKLAEKDEELDNLRRNHQRTLNFMQATLDAEAKSRNEAVRLRKKMEGDLNEMEVQLNHANRQAAESQKLLRNLQVQIKDIQMELDETVHQNEELKDQVVVTERRNNLLAAEVEELRALLEQNDRARKLAEHELLEATERVNLLHSQNTSLISQKKKLENDLSTLSNEVDDAVQECRNAEDKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTVKDLQMRLDEAEQIALKGGKKQVQKLEARVKELENELESEQKKSQEFQKGVRKYERRIKELSYQAEEDKKNLIRLQELIDKLQVKVKSYKRQTEEAEEQANCNLSKYRKLQHELNDAEERADMAETQVNKLRVRTRDQGSKLAE

>Ai\_MYH
MNIDFSDPDFQYLAVDRKKLMKEQTAAFDGKKNCWVPDEKEGFASAEIQSSKGDEITVKIVADSSTRTVKKDDIQSMNPPKFEKLEDMANMTYLNEASVLYNLRSRYTSGLIYTYSGLFCIAVNPYRRLPIYTDSVIAKYRGKRKTEIPPHLFSVADNAYQNMVTDRENQSCLITGESGAGKTENTKKVIMYLAKVACAVKKKDEEASDKKEGSLEDQIIQANPVLEAYGNAKTTRNNNSSRFGKFIRIHFGPTGKIAGADIETYLLEKSRVTYQQSAERNYHIFYQICSNAIPELNDVMLVTPDSGLYSFINQGCLTVDNIDDVEEFKLCDEAFDILGFTKEEKQSMFKCTASILHMGEMKFKQRPREEQAESDGTAEAEKVAFLCGINAGDLLKALLKPKVKVGTEMVTKGQNMNQVVNSVGALAKSLYDRMFNWLVRRVNKTLDTKAKRNYYIGVLDIAGFEIFDFNSFEQLCINYTNERLQQFFNHHMFILEQEEYKKEGIAWEFIDFGMDLQMCIDLIEKPMGILSILEEECMFPKADDKSFQDKLYQNHMGKNRMFTKPGKPTRPNQGPAHFELHHYAGNVPYSITGWLEKNKDPINENVVALLGASKEPLVAELFKAPEEPAGGGKKKKGKSSAFQTISAVHRESLNKLMKNLYSTHPHFVRCIIPNELKQPGLVDAELVLHQLQCNGVLEGIRICRKGFPSRLIYSEFKQRYSILAPNAIPQGFVDGKTVSEKILAGLQMDPAEYRLGTTKVFFKAGVLGNLEEMRDERLSKIISMFQAHIRGYLIRKAYKKLQDQRIGLSVIQRNIRKWLVLRNWQWWKLYSKVKPLLSIARQEEEMKEQLKQMDKMKEDLAKTERIKKELEEQNVTLLEQKNDLFLQLQTLEDSMGDQEERVEKLIMQKADFESQIKELEERLLDEEDAAADLEGIKKKMEADNANLKKDIGDLENTLQKAEQDKAHKDNQISTLQGEISQQDEHIGKLNKEKKALEEANKKTSDSLQAEEDKCNHLNKLKAKLEQALDELEDNLEREKKVRGDVEKAKRKVEQDLKSTQENVEDLERVKRELEENVRRKEAEISSLNSKLEDEQNLVSQLQRKIKELQARIEELEEELEAERNARAKVEKQRAELNRELEELGERLDEAGGATSAQIELNKKREAELLKIRRDLEEASLQHEAQISALRKKHQDAANEMADQVDQLQKVKSKLEKDKKDLKREMDDLESQMTHNMKNKGCSEKVMKQFESQMSDLNARLEDSQRSINELQSQKSRLQAENSDLTRQLEDAEHRVSVLSKEKSQLSSQLEDARRSLEEETRARSKLQNEVRNMHADMDAIREQLEEEQESKSDVQRQLSKANNEIQQWRSKFESEGANRTEELEDQKRKLLGKLSEAEQTTEAANAKCSALEKAKSRLQQELEDMSIEVDRANASVNQMEKKQRAFDKTTAEWQAKVNSLQSELENSQKESRGYSAELYRIKASIEEYQDSIGALRRENKNLADEIHDLTDQLSEGGRSTHELDKARRRLEMEKEELQAALEEAEGALEQEEAKVMRAQLEIATVRNEIDKRIQEKEEEFDNTRRNHQRALESMQASLEAEAKGKADAMRIKKKLEQDINELEVALDASNRGKAEMEKTVKRYQQQIREMQTSIEEEQRQRDEARESYNMAERRCTLMSGEVEELRAALEQAERARKASDNELADANDRVNELTSQVSSVQGQKRKLEGDINAMQTDLDEMHGELKGADERCKKAMADAARLADELRAEQDHSNQVEKVRKNLESQVKEFQIRLDEAEASSLKGGKKMIQKLESRVHELEAELDNEQRRHAETQKNMRKADRRLKELAFQADEDRKNQERLQELIDKLNAKIKTFKRQVEEAEEIAAINLAKYRKAQHELEEAEERADTADSTLQKFRAKSRSSVSVQRSSVSVSASN