#Ebf/COE

>Bs\_Ebf

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>Ci\_COE  
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>Cs\_COE  
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>M0\_COE

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>Pm\_COE

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>Hr\_COE

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>Mm\_COE1  
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#MESP

> Bs\_MESP

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>Ci\_MESP  
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>Moc\_ME

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>Hr\_MESP

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#MRF

>BsMRF  
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>Mo\_MRF

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>Ci\_MRF  
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# Nkx

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>Mm\_NK3  
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#MYH Type II Myosin Heacy chain

# class II type Myosins  
  
>Bs\_MYH9/10/11   
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>Hr\_MYHE   
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>Hr\_MYH9/10/11   
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>Mo\_MYH3   
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>Mo\_MYH2   
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>Pm MYH3b   
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>Pm\_MYH3a   
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>Pm\_MYH9/10/11  
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>Pm\_MYH2   
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>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   
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>Mm\_MYH3   
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>Mm\_MYH4   
MSSDAEMAVFGEAAPYLRKSEKERIEAQNKPFDAKSSVFVVDAKESYVKATVQSREGGKVTAKTEGGATVTVKDDQVFSMNPPKYDKIEDMAMMTHLHEPAVLYNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYNPEVVAAYRGKKRQEAPPHIFSISDNAYQFMLTDRENQSILITGESGAGKTVNTKRVIQYFATIAVTGDKKKEEATSGKMQGTLEDQIISANPLLEAFGNAKTVRNDNSSRFGKFIRIHFGATGKLASADIETYLLEKSRVTFQLKAERSYHIFYQIMSNKKPELIEMLLITTNPYDFAYVSQGEITVPSIDDQEELMATDTAVDILGFSADEKVAIYKLTGAVMHYGNMKFKQKQREEQAEPDGTEVADKAAYLTSLNSADLLKALCYPRVKVGNEYVTKGQTVQQVYNSVGALAKSMYEKMFLWMVTRINQQLDTKQPRQYFIGVLDIAGFEIFDFNTLEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIDWEFIDFGMDLAACIELIEKPMGIFSILEEECMFPKATDTSFKNKLYEQHLGKSNNFQKPKPAKGKAEAHFSLVHYAGTVDYNIIGWLDKNKDPLNETVVGLYQKSGLKTLAFLFSGGQAAEAEGGGGKKGGKKKGSSFQTVSALFRENLNKLMTNLKSTHPHFVRCLIPNETKTPGAMEHELVLHQLRCNGVLEGIRICRKGFPSRILYADFKQRYKVLNASAIPEGQFIDSKKASEKLLGSIDIDHTQYKFGHTKVFFKAGLLGTLEEMRDEKLAQLITRTQAVCRGYLMRVEFKKMMERRESIFCIQYNVRAFMNVKHWPWMKLYFKIKPLLKSAETEKEMANMKEDFEKAKEDLAKSEAKRKELEEKMVALMQEKNDLQLQVQAEADGLADAEERCDQLIKTKIQLEAKIKELTERAEDEEEINAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMAGLDENIAKLTKEKKALQEAHQQTLDDLQAEEDKVNTLTKAKTKLEQQVDDLEGSLEQEKKLRMDLERAKRKLEGDLKLAQESTMDIENDKQQLDEKLKKKEFEMSNLQSKIEDEQALGMQLQKKIKELQARIEELEEEIEAERASRAKAEKQRSDLSRELEEISERLEEAGGATSAQIEMNKKREAEFQKMRRDLEEATLQHEATAAALRKKHADSVAELGEQIDNLQRVKQKLEKEKSELKMEIDDLASNMETVSKAKGNLEKMCRTLEDQLSEVKTKEEEQQRLINELSTQKARLHTESGEFSRQLDEKDAMVSQLSRGKQAFTQQIEELKRQLEEESKAKNALAHALQSARHDCDLLREQYEEEQEAKAELQRAMSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQDAEEHVEAVNSKCASLEKTKQRLQNEVEDLMIDVERSNAACAALDKKQRNFDKVLAEWKQKYEETQAELEASQKESRSLSTELFKVKNAYEESLDQLETLKRENKNLQQEISDLTEQIAEGGKHIHELEKIKKQIDQEKSELQASLEEAEASLEHEEGKILRIQLELNQVKSEIDRKIAEKDEEIDQLKRNHLRVVESMQSTLDAEIRSRNDALRIKKKMEGDLNEMEIQLNHANRQAAEAIRNLRNTQGMLKDTQLHLDDALRGQDDLKEQLAMVERRANLMQAEIEELRASLEQTERSRRVAEQELLDASERVQLLHTQNTSLINTKKKLETDISQIQGEMEDIVQEARNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTVKDLQHRLDEAEQLALKGGKKQIQKLEARVRELENEVENEQKRNIEAVKGLRKHERRVKELTYQTEEDRKNVLRLQDLVDKLQTKVKAYKRQAEEAEEQSNVNLAKFRKIQHELEEAEERADIAESQVNKLRVKSREVHTKVISEE  
  
>Mm\_MYH1   
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>Mm\_MYH8   
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>Tr\_MYH\_M86  
MSTDAEMEQYGPASIYLRKPERERIEAQNTPFDAKTAYFVAEPAEMYLKGKLIKREGGKATVETVTGKTITVKEDDIHAMNPPKYDKIEDMAMMTHLNEPAVLYNLKERFASWMIYTYSGLFCVVVNPYKWLPVYDAQVVNAYRGKKRIEAPPHIFSISDNAYQFMLTDRENQSILITGESGAGKTVNTKRVIQYFATIAVAGGGKKAEQGSGKIQGSLEDQIIAANPLLEAYGNAKTVRNDNSSRFGKFIRIHFGTTGKLASADIETYLLEKSRVTFQLSAERSYHIFYQLMTGHKPELLEALLITTNPYDYPMISQGEITVKSIDDVEEFIATDTAIDILGFTADEKINIYKLTGAVMHHGTMKFKQKQREEQAEPDGTEVADKIAYLLGLNSADMLKCLCYPRVKVGNEMVTKGQTVPQVNNAVSALCKSVYEKMFLWMVVRINEMLDTKQSRSYFIGVLDIAGFEIFDFNSLEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIDWEFIDFGMDLAACIELIEKPMGIFSILEEECMFPKASDTTFKNKLHDQHLGKTKAFEKPKPGKGKAEAHFALVHYAGTVDYNISGWLDKNKDPLNDSVVQLYQKSSNKLMSLLYAARAGDEAAAGAGKKAGKKKGGSFQTVSALFRENLGKLMTNLKSTHPHFVRCLIPNESKTPGLMENFLVIHQLRCNGVLEGIRICRKGFPSRILYGDFKQRYKVLNASVIPEGQFIDNKKASEKLLGSIDVDHTQYKFGHTKVFFKAGLLGTLEEMRDEKLAELVTMTQALCRGYLMRKEFVKMMERRESLFTIQYNVRSFMNVKNWPWLKLYFKIKPLLKSAETEKELAQMKDNYEKMQSDLATALAKKKELEEKMVSLLQEKNDLQLQVASEFDNLSDAEERCEGLIKSKIQLEAKLKETTERLEDEEEINAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMASQDESIAKLTKEKKALQESHQQTLDDLQAEEDKVNTLTKAKTKLEQQVDDLEGSLEQEKKLRMDLERAKRKLEGDLKLAQESIMDLENEKQQSDEKIKKRDFEISQLLSKIEDEQSLGAQLQKKIKELQARIEELEEEIEAERAARAKVEKQRADLSRELEEISERLEEAGGATAAQIEMNKKREAEFQKMRRDLEESTLQHEATAAALRKKQADSVAELGEQIDNLQRVKQKLEKEKSEYKMEIDDLSSNMEAVAKSKGNLEKMCRTLEDQLSELKSKNDENVRQLNDINAQRARLQTENGEFGRQLEEKEALVSQLTRGKQAFTQQIEELKRHVEEEVKAKNALAHGVQSARHDCDLLREQYEEEQEAKAELQRAMSKANSEVAQWRSKYETDAIQRTEELEEAKKKLAQRLQDAEESIEAVNSKCASLEKTKQRLQGEVEDLMIDVERANSLAANLDKKQRNFDNFLAEWKQKYEEGQAELEGAQKEARSLSTELFKMKNSYEEALDHLETMKRENKNLQQEISDLTEQIGETGKSIHELEKSKKTVETEKSEIQAALEEAEGTLEHEEAKILRVQLELNQIKGEVDRKLAEKDEEMEQIKRNSQRVIDSMQSTLDAEVRSRNDALRVKNKMEGDLNEMEIQLSHANRQAAEAQKQLRNVQGQLKDAQLHLDDAVRGQEDMKEQFAMVERRNGLMMAEIEELRAALEQTERGRKVAEQELVDASERVGLLHSQNTSLINTKKKLEADLVQVQGEVDDSIQEARNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNLEVTVKDLQHRLDEAESLAMKGGKKQLQKLESRVRELEAEVEAEQRRGVDAVKGVRKYERRVKELTYQTEEDKKNVSRLQDLVDKLQLKVKAYKRQAEEAEEQANTHMSRLRKVQHEMEEAQERADIAESQVNKLRVKSRDMGKSDSAE  
  
>Tr\_MYH\_M2528  
MGDAEMECFGPAAIYLRKPERERMEAQNTPFDAKSAYFVVEPKEMYLKGKLVKKEGGKATVETLCGKSITVKDTEIFPMNPPKFDKIEDMAMMTHLSEPSVLYNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYDSMVVAGYRGKKRVEAPPHIFSISDNAYQFMLTDRENQSILITGESGAGKTVNTKRVIQYFATIAVAGGKKEPVPGKMQGSLEDQIIAANPLLEAYGNAKTVRNDNSSRFGKFIRIHFATTGKLASADIETYLLEKSRVTFQLSAERSYHIFYQLMTGHKPELIEALLITTNPYDYHMISQGEITVKSINDIEEFIATDTAIDILGFTGEEKISMYKLTGAVMQHGNMKFKQKQREEQAEPDGSEVADKIAYLMGLNSADLLKALCYPRVKVGNEFVTKGQTVPQVNNSVMALCKSVYEKMFLWMVVRINEMLDTKQSRQFFIGVLDIAGFEIFDYNSLEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWEFIDFGMDLAACIELIEKPMGIFSILEEECMFPKATDMTFKNKLYDQHLGKTKCFEKPKPAKGKAEAHFSLVHYAGTVDYNITGWLDKNKDPLNDSVVQLYQKSSVKLLSFLYASHASSEAETGGGGKKGGKKKGGSFQTVSALFRENLGKLMTNLRSTHPHFVRCLIPNESKTPGLMENFLVIHQLRCNGVLEGIRICRKGFPSRILYGDFKQRYKVLNASVIPEGQFIDNKKASEKLLGSIDVDHTQYRFGHTKVFFKAGLLGVLEEMRDEKLAELVTMTQALCRGFLMRREFVKMMERRDAIFTIQYNIRAFMNVKTWPWMKLYFKIKPLLKSAETEKEMAQMKEDFEKTKEDLSKALSKKKELEEKMVSLLQEKNDLLLQVQTESENLSDAEERCEGLIKAKIQLEAKKETTERLEDEEEINAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMASQDEAIAKLSKEKKALQEAHQQTLDDLQAEEDKVNTLTKAKTKLEQQVDDLEGSLEQEKKLRMDLERAKRKLEGDLKLAQESIMDLENDKQQSDEKIKKKDFEISQLLNKIEDEQTLGIQLQKKIKELQARIEELEEEIEAERAARAKVEKQRSDLSRELEEISERLEEAGGATSAQIEMNKKREAEFQKLRRDLEESTLQHEATAAALRKKQADSVAELGEQIDNLQRVKQKLEKEKSEYKMEIDDLSSNMEAIAKSKSNLEKMCRTLEDQLSELKSKNDENVRQLNDASTQKSRLQTENGEYLRQLEEKEALVSQLTRGKQAYTQQIDELKRHIEEEVKAKSALAHAVQSSRHDCELLREQYEEEQEAKAELQRSMSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQDAEESIEAANSKCASLEKTKQRLQGEVEDLMIDVERANAVAASLDKKQRNFDKVLAEWKQKYEESQAELEGAQKEARSLSTELFKMKNSYEEALDHLETLKRENKNLQHEISDLSEQLGETGKTIHELEKGKKTVEGEKAEIQTALEEAEATLEHEESKILRVQLELTQIKSEIDRKLAEKDEEIEQIKRNSQRVIESMQSTLDAEVRSRNDALRIKKKMEGDLNEMEIQLSHANRQAAEAQKQLRNIQGQLKDAQLHLDEALRGQDDMKEQVAMVERRNNLMLAEIEELRAALEQTERSRKVAEQELVDASERVGLLHSQNTSLINTKKKLEGDLVQIQGEVEEAVQEARNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNLEVTVKDLQHRLDEAENLAMKGGKKQLQKLEARVRELEGEVEAEQRRGADAIKGVRKYERRVKELTYQTEEDKKNVARLQDLVDKLQLKVKAYKRQAEEAEEQANTHLSKYRKVQHELEEAQERADIAESQVNKLRAKSREIGK  
  
>Tr\_MYH\_M1034  
MGDAEMECYGPAAVFLRKPEKERIEAQNTPFDAKTAYFVTEPKEMYLKGKLIKKEGGKATVETLCKKTITVKDDEIFPMNPPKFDKIEDMAMMTHLSEPTVLYNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYDSVVVAGYRGKKRIEAPPHIFSISDNAYQFMLQDRENQSILITGESGAGKTVNTKRVIQYFATIAVAGGKKEQQSSSKMQGSLEDQIIAANPLLEAYGNAKTVRNDNSSRFGKFIRIHFGTTGKLASADIETYLLEKSRVTFQLSAERSYHIFYQLATGHKPELIEALLITTNPYDFPMISHGEITVKSIDDIEEFIATDTAIDILGFTAEEKASMYKLTGAVMHHGNMKFKQKQREEQAEPDGTEVADKIAYLMGLNSADLLKALCYPRVKVGNEFVTKGQTVPQVNNSVMALSKSVYEKMFLWMVVRINEMLDTRQSRSFFIGVLDIAGFEIFDYNSLEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWEFIDFGMDLAACIELIEKPMGIFSILEEECMFPKATDMTFKNKLYDQHLGKSAPFQKPKPAKGKAEAHFSLMHYAGTVDYNVTGWLDKNKDPLNDSVVQLYQKSSVKLLAYLYAAHGGAEEGGGAKKGKKKGGSFQTVSGLFRENLGKLMTNLRSTHPHFVRCLIPNESKTPGLMENFLVIHQLRCNGVLEGIRICRKGFPSRILYGDFKQRYKVLNASVIPEGQFIDNKKASEKLLGSIDVDHTQYKFGHTKVFFKAGLLGTLEEMRDEKLVELVTMTQALCRAYLMRREFVKMMERRESLFTIQYNIRSFMNVKTWPWMKLYFKIKPLLKSAEAEKEMAQMKEDFEKTKEDLAKALAKKKELEEKMVSLLQEKNDLQLQIQSESETLSDAEERCEGLIKAKIQLEAKAKETAERLEDEEEINAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLVEEMASQDEAIAKLSKEKKALQEAHQQTLDDLQAEEDKVNTLTKAKTKLEQQVDDLEGSLEQEKKLRMDLERAKRKLEGDLKLAQESIMDLENDKQQSDEKIKKKDFEISQFLSRIEDEQALSIQFQKKIKELQARIEELEEEIEAERAARAKVEKQRSDLSRELEEISERLEEAGGATSVQIEMNKKREAEFQKLRRDLEESTLQHEATAAALRKKQADTTAELGDQIDNLQRVKQKLEKEKSEYKMEIDDLSSNMEAIAKSKTHLEKLCRTLEDQMSEMKTKSDENVRQLNDIGLQRARLQTENGEISRQLEEKETLVSQLTRSKQAFIQQIEELKRHIEEEVKAKNALAHAVQSSRHDCELLREQYEEEQEAKAELQRSMSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQDAEESIEAVNAKCASLEKTKQRLQGEVEDLMIDVDRANALAASLDKKQRNFDKVLAEWKQKYEESQAELEGAQKEARSLSTEMFKMKNSYEEALDHLETLKRENKNLQQEISDLTEQIGETGKTIHELEKGKKTAESEKCELQTSLEEAEATLEHEESKILRIQLELTQVKSEIDRKIAEKDEEIEQIKRNSQRVIESMQSTLDAEIRSRNDALRIKKKMEGDLNEMEIQLSHANRQAAEAQKQLRNVQGQLKDAQLHLDEAIRGQEEMKEQVAMVERRNNLMLAEIEELRAALEQTERSRKVAEQELVDASERVGLLHSQNTSLINTKKKLEADLIQIQGEVEDSIQEARNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNLEVTVKDLQHRLDEAENLAMKGGKKQLQKLEARVRELEGEVEAEQKRGADAIKGVRKYERRVKELTYQTEEDKKNLVRLQDLVDKLQLKMKSYKRQAEDAEEQANSHLTRYRKVQHELEEAQERADIAESQVNKLRVKSREIVK  
  
>Tr\_MYH\_M743  
MSTDAEMAIYGKAAIYLRKPEKERIEAQNKPFDAKSACYVTDTKELYLKGTILKKDGAKVTVKVLGTEEERTVKEDDVTPMNPPKFDKIEDMAMMTHLNEASVLYNLKERYAAWMIYTYSGLFCATVNPYKWLPVYDSEVVSAYRGKKRMEAPPHIFSVSDNAYQNMLTDRENQSVLITGESGAGKTVNTKRVIQYFATIAVGGGEKKKESKMGGSLEDQIIAANPLLEAYGNAKTVRNDNSSRFGKFIRIHFGTSGKLSSADIETYLLEKSRVTFQLPDERGYHIFYQMMTNHKPELIEMSLITTNPYDFPMCSMGQITVASIDDKVELEATDNAIDILGFTHEEKMSIYKMTGAVLHHGNMKFKQKQREEQAEPDGTEDADKVAYLLGLNSADMLKALCYPRVKVGNEFVTKGQTVPQVNNSVPALAKSIYERMFLWMVVRINQMLDTKQPRQFFIGVLDIAGFEIFDYNSMEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIHWEFIDFGMDLAACIELIEKPMGIFSILEEECMFPKATDTSFKNKLYDQHLGKNKAFEKPKPAKGKAEAHFSLVHYAGTVDYNISGWLDKNKDPLNESVVQLYQKSPVKLLSTLYPPVVDEPAGGKKGGKKKGGSMQTVSSQFRENLGKLMTNLRSTHPHFVRCLIPNESKTPGLMENFLVIHQLRCNGVLEGIRICRKGFPSRIVYGDFKQRYKVLNASVIPEGQFIDNKKASEKLLGSIDVDHDQYRFGHTKVFFKAGLLGTLEEMRDDKLAALVTMTQALCRGYLMRKEFVKMTARRDAIYTIQYNVRSFMNVKNWPWMHVYYKIKPLLKSAETEKELAQMKENYEKMQTDLAAALAKKKELEEKMVSLLQEKNDLQLQVASESENLSDAEERCEGLIKSKIQLEAKLKETTERLEDEEEINAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMASQDESIAKLTKEKKALQEAHQQTLDDLQAEEDKVNTLTKAKTKLEQQVDDLEGSLEQEKKLRMDLERAKRKLEGDLKLAQESIMDLENDKQQSDEKMKKKDFEISQLLSKIEDEQSLGAQLQKKIKELQARIEELEEEIEAERAARAKVEKQRADLSRELEEISERLEEAGGATAAQIEMNKKREAEFQKLRRDLEESTLQHEATAAALRKKQADSVAELGEQIDNLQRVKQKLEKEKSEYKMEIDDLSSNMEAVAKAKGNLEKMCRTLEDQLSELKTKNDENVRQINDLGAQKARLLTENGEFGRQIEEKEALVSQLTRGKQAFTQQIDELKRQIEEEVKAKNALAHGLQSARHDCDLLREQFEEEQEAKAELQRGMSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQEAEEQIEAVNSKCASLEKTKQRLQSEVEDLMIDVERANGLAANLDKKQRNFDKVLAEWKQKYEEGQAELEGAQKEARSLGTELFKMKNSYEEALDQLETMKRENKNLQQEISDLTEQIGETGKSIHELEKAKKQVETEKAEIQTALEEAEGTLEHEESKILRVQLELNQIKGEIDRKLAEKDEEIEQIKRNSQRVTDSMQSTLDSEVRSRNDALRIKKKMEGDLNEMEIQLSHANRQAAESQKQLRNVQAQLKDAQLHLDDAVRAQEDLKEQAAMVDRRNGLMIAEIEELRAALEQTERSRKVAEQELVDASERVGLLHSQNTSLMNTKKKLESDLVQIQSEVDDTVQEARNAEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNLEVAVKDLQHRLDEAENLAMKGGKKQLQKLESRVRELETEVETEQRRGADAVKGVRKYERRVKELTYQTEEDKKNVTRLQDLVDKLQLKVKAYKRHSEEAEEQANVHLSKCRKLQHELEEAEERADIAESQVNKLRAKSRDSGKGKDAAE  
  
>Tr\_MYH\_M454  
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>Lc\_MYH1  
MGDLHEFGKAAPFLRKSEKERLEAQTRPFDMKKNCFVDDPKIEFVKATIKSSEGGKVTVDTENGQTVTVREDQVHQMNPPKFDKIEDMVMLTFLNEPSVLFNLKERYAAWMIYTYSGLFCVTVNPYKMLPVYDPIVVAGYRGKKRQEAPPHIFSISDNAYQFMLSDRENQSILITGESGAGKTVNTKRVIQYFATIAALGDSAKKKQEGKIKGTLEDQIVEANPLMEAFGNAKTVRNDNSSRFGKFIRIHFGATGKLASADIETYLLEKSRVTFQLPTERNYHIFFQILSQQKPELLDMLLVTTNPYDYPFISQGEITVSSIDDKEELMATDSAIEILGFTNEEKMSIYKLTGSIMHYGNMKFKQKQREEQAEPDGSEDADKACFLMGINSADLLKALCLPRVKVGNEYVTKGQTVPQVYNNIGALGKACFERLFLWMVIRINQSLDTKQARQHFIGVLDIAGFEIFDFNTFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIDWVFIDFGMDLQACIDLIEKPLGIMSILEEQCMFPKANDQTFKEKLYDQHLGKNKFFQKPKPSKGKHEAHFSLGHYAGNVDYNIAGWLEKNKDPLNDSVVQVYQKASLKVLGALFATFAGADADSGAKKGKKKGSSFQTVSALHRENLSKLMTNLKTTHPHFVRCLIPNETKTPGTMDNNLVMHQLRCNGVLEGIRICRKGFPNRIVYGDFKQRYRVLNPNAMPEGQFVDSKKACEKLMASLELDETQYKFGHTKVFFRAGLLGTLEEMRDDRLSLLLTRTQALGRGYLSRVEFKKMLERRESLIVIQYNIRAFMGVKNWPWMNLYFKIKPLLKSAESEKEMANMKEEFIKTKEALEKSEARRKELEEKMISVVQEKNDLLMQVQSGEDSINDSEERCDQLIKAKIQLESKLKEMQERIEEEEEMNSELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMAVLDENVSKLTKEKKALQEAHQQTLDDLQAEEDKVNSLTKAKAKLEQQVDDLEGSLEQEKKVRMDIERTKRKLEGDFKMAQESIMDLENDKQQIDEKTKKKDFEISQLNSKIEDELALSAQLQKKIKELQARIEELEEEIEAERAARAKVEKQRSDLSRELEEISERLEEAGGATSAQIEMNKKREAEFQKLRRDLEESTLQHEATAAALRKKQADSVAELGEQIDNLQRVKQKLEKEKSEFKMEVDDLSSNMEQITKSKVNLEKLSRSLEDQLSELKTKDDENIRTINDITAQRARLQTESGELTRKLEEKEVLVVQLSRGKQSYTQQVEDLKRQLEEEVKAKNALAHAVQSARHDCDLLREQFDEEQEAKGELQRAMSKANAEVAQWRTKYETDAIQRTEELEDAKKKLAARLQDAEEQVEAANSKCASLEKTKQRLQGEVEDLMIDVERAHSAAAALDKKQKAFDKVLSEWKQKFEESQAELEAAQKESRSLGTELFKLKNAYEETLDHLETFKRENKNLQEEISDLTEQLGESSKSLHELEKNRKAIEQEKSDIQAALEEAEASLEHEEGKILRVQLELNQVKAEVDRKIAEKDEEIDQIKRGFQRTVESMQATLDSETKSRNEALRLKKKMEGDLNEMEIQLNHANRQAAESQKHLRNVQGQIKDLQVHLDDALRANEDHKEQAAMLERRNNLLVAEVEEMRSALEQTEKARKLAEQELLGATERVQLLHSQNTSLINTKRKLEGDLSQLQSEVEESIQESRNADEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTVKDLQHRLDEAEQIAMKGGKKQLQKLETRVRELESELDAEQRRTAETIKGSRKYERRIKELSYQTEEDRKNNLRLQDLVDKLQLKVKAYKRQSEESEEQANTNLSKYRKLQHELEEADERADIAESQVNKLRARSRDSGVVKAGESE  
  
>Lc\_MYH2  
MGDLHEFGKAAPFLRKSEKERLEAQTRPFDMKKECYVDDPKVEFVKATIKSSEGGKVTVDTETGQTVTVKDSQVHQMNPPKFDKIEDMAMLTFLNEPSVLFNLKERYAAWMIYTYSGLFCVTINPYKWLPVYDPIVVAGYRGKKRQEAPPHIFSISDNAYQFMLTDRENQSILITGESGAGKTVNTKRVIQYFATIAALGDATKKKEESRKGTLEDQIVEANPLMEAFGNAKTVRNDNSSRFGKFIRIHFGATGKLSSADIETYLLEKSRVTFQLPTERNYHIFYQIESQKKPELLEMLLITNNPYDYVFISQGEITVPSLDDGDELMATDSAIDILGFTNDEKLSIYKVTGALMHYGNMKFKQKQREEQAEPDGNEDADKAAYLMGLNSADLLKGLCYPRVKVGNEYVTKGQTVQQVHNSVGALARSVFEKMFLWMVIRINETLATKLARQHFIGVLDIAGFEIFDFNTFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIDWVFIDFGMDLQACIDLIEKPMGIMSILEEQCMFPKANDQTFKEKLYDQHLGKNQFFQKPKPSKGKHEAHFSLGHYAGNVDYNIGGWLEKNKDPLNDSVVQLYQKSSLKMLAAVYATYASVDSDTGSKGGKKKKGSSFQTVSALHRENLNKLMTNLKTTHPHFVRCIIPNETKTPGTMDNILVMHQLRCNGVLEGIRICRKGFPNRIVYGDFKQRYRVLNPNAIPEGQFMDSKKACEKLMASLELDDTQYKFGHTKVFFRAGLLGTLEEMRDDRLSLLLTRTQALARGYLSRVEFKKMLERRESLIIIQYNIRAFMGVKNWPWMNLYFKIKPLLKSAESEKEMANMKEEFIKTKEALEKSETRRKELEEKMISVMQDKNDLLIQVQSSEETLNDAEERCDQLIKTKIQLEGKIKEIQERVEEEEEMNAEITAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMAVLDENVSKLTKEKKALQEAHQQTLDDLQAEEDKVNSLTKAKAKLEQQVDDLEGSLEQEKKVRMDVERTKRKMEGDLKLAQESLMDLENDKQQLDEKLKKKDFEMSQLNSRIEDEVSLSAQLQKKIKELQARIEELEEEIEAERAARAKVEKQRSDLSRELEEISERLEEAGGATSAQIEMNKKREAEFQKLRRDLEEATLQHEATAAALRKKQADSVAELGEQIDNLQRVKQKLEKEKSEFKMEVDDLSSNLEQVTKAKVNLEKLCRTIEDQLAEVKTKEEEQIRSINDINTQRARLLAENGELSRKLEEKEVLVVQLSRGKLSYTQQVEDLKRQLEEEIKAKNALAHAVQSARHDCDLLREQFDEEQEAKGELQRAMSKANAEVAQWRTKYETDAIQKTEELEEAKKKLAARLQEAEEQVEASNSKCASLEKTKQRLLGEVEDLMIDVERAHSAAAALDKKQKAFDKILSEWKQKYEESQSELEASQKESRSLSTEVFKLKNAYEETLDHLETLKRENKNLQEEISDLTEQLGESGKALHEVEKSRKQLEQEKLEIQAALEEAEASLEHEEGKILRIQLELNQVKADIDRKIAEKDEELDQLKRSNQRTVESMQASLDAETKSRNEALRLKKKMEGDLNEMEIQLNHANRQAAESQKHLRNVQGQIKDLQVHLDDTLRSNDDLKEQVAMIERRNNLLLAEVEEMRTALEQTERARKVAEQELLGATERVQLLHSQNTSLINTKRKLEGDIVQLQNECEEAIQESRNADEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTVKDLQNRLDEAEQIAMKGGKKQIQKLETRVRELESELDSEQRRIAETIKGARKYERRVKELTYQAEEDRKNNLRLQDLVDKLQLKVKTYKRQSEEAEEQANTNLSKYRKMQHELEEADERADIAESQVNKLRARSRDVHPTKAEAE  
  
>Lc\_MYH5  
MGDLRDFGEAAPFLRKSEKERLEAQHRPFDTKKEVYVVDVKDMYVKATIKSSDGGKVTVETEDGRTVTVKAEDVHQMNPPKFDKIEDMAMLTFLNEAAVLYNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYNKEVVAGYRGKKRQEAPPHIYSISDNAYQSMLTDRENQSVLITGESGAGKTVNTKRVIQYFATIAALGEATKKEASQSQMKMTLEDQIVQANPLMEAFGNAKTVRNDNSSRFGKFIRIHFGASGKLASCDIETYLLEKSRVTFQLPTERNYHIFFQIISQQKPELIDMLLITTNPYDYVFISQGEITVASIDDKEELMATDSAIDILGFTNDEKLSIYKLTGSIMHYGNMKFKQKQREEQAEPDGVEDADKACYLMGINSADLLKALCYPRVKVGNEVVTKGQTVKQVYNNIGALAKTVFEKLFLWMVIRINQSLDTKKARQHFIGVLDIAGFEIFDYNTFEQLCINFTNERLQQFFNHHMFVQEQEEYKKEGIDWEFIDFGMDLQACIDLIEKPMGIMSILEEQCMFPKSNDSTFKEKLYDQHLGKSSFFQKPKPSKGKHEAHFTLGHYAGNVDYNIAGWLEKNKDPLNDSVVQIYQKASLKVLGALFANFASADADAAGAKKAKKKGSSFQTVSALHRENLNKLMTNLKTTHPHFVRCLIPNETKTPGVMDNNLVMHQLRCNGVLEGIRICRKGFPNRILYGDFKQRYRILNPSAMPDGQFIDNKTGCEKLMDSLQLDNLQYKFGYTKIVFRAGLLGTLEEMRDDRLSLLLTRTQAVTRGYLMRKKMKQLMETRDSIIVIQYNIRVFMGVKNWPWMNLYFKIKPLLKSAESEKEMANMKEEFIKTKEALEKSEARRKELEEKMISVVQEKHDLLMQVESVEGTMSDAEERCNELIKSKIHLEAKLKEAQERADEEEELNAELTTKKRAFEDECSELKKDIDDLELTLAKVEREKHATENKVKTLSEEMAALEENIAKLTKEKKALQEAHQQTLDDLQAEEDKVNSLTKAKAKLEQQVDELEGSLEQEKKTRMDVERAKRKVDGDFKMSQEAVTDLENDKQQLEEKMKKKDVEIGQTNSKMQDEMALSAQLQKKIKELQARIEELEEEIEAERAARAKVEKQRSDLSRELEEISERLEEAGGATSAQIEMNKKREAEFQKLRRDLEEATLQHEATAAALRKKQADSVAELGEQIDNLQRVKQKLEKEKSEFKMEVDDLSSNMEQITKSKINFERLSKSLEDQISDLKSINEEKLHSVNELTTQKARMQTEVGELSRKLEEKETLTGQLSRVKQCNSQQIEDLKRQLEDEVKAKNALAHAVQSARHDCDLLREQFDEEQEAKGELQRAMSKANAEVAQWRTKYETDAIQKTEELEEAKKKIAVRLQEAEEHIETANAKCASLEKTKQRLQAEIEDLTTDVERAHSAATALDKKQKSFDKVMSEWKHKCEESQAELEGSQKEARSLSTELFKIKNAYEEALDQLETVKRENKNLQEEIFDLTEQLGESGKNVHELDKYRKQLEQDQAGLQASLEEAEASLEHEGGKILRVQLELNQVKAEVDRKIAEKDEEIDQIKRGFQRTVESMQATLDSETKSRNEALRLKKKMEGDLNEMEIQLNHANRQAAESQKHLRNAQNQMKDLQVHLDEALHGNEDLTEQNAMMRRRSDLLQAEIEETRSALEQTEKSRRVSEQELLATTERVQLLHSQNMCLINSKKKLESDLFQLQSEAEEALLESRSSEEKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTVKDLQHRLDEAEQIAMKGGKKHIQKLEARVHELEAEVDAGQRRNSEAVKGTRKYESKIKELSFQAEEDRKNLLRLQDLVDKLQLKVKAYKRHSEEAEEQANVSLSKFRTLQHELDEAQERADVAESQVNKLRAKSRDVASQKVRSDAEE  
  
> Tr\_Myh6/7  
MGDAAMSEFGAAAPYLRKSDKERLEAQTRVFDMKKECFVPDPEIEYIKASITNREGDKVTVNTAGGKTVTVKECDVHTQNPPKFDKIEDMAMFTFLHEPAVLFNLKERYAAWMIYTYSGLFCVTVNPYKWLPVYNQEVVVAYRGKKRTEAPPHIFSISDNAYQYMLTDRENQSILITGESGAGKTVNTKRVIQYFASIAAGGGKKEGNPDKKGTLEDQIIQANPALEAFGNAKTIRNDNSSRFGKFIRIHFAASGKLASADIETYLLEKSRVTFQLKAERDYHIFYQILSQKKPELLEMMLITNNPYDYAYISQGETTVTSINDAEELMATDSAFDVLGFTQEEKNSVYKLIGAIMHYGNMKFKQKQREEQAEADGTEDADKSAYLMGLNSADLIKGLCHPRVKVGNEWVTKGQNVQQVNYAIGALSKSVYEKMFLWMVVRINQSLDTRQPRQYFIGVLDIAGFEIFDFNTFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWTFIDFGMDLQACIDLIEKPMGIMSILEEECMFPKASDATFKAKLYDNHLGKSANFQKPRIVKGKPEAHFALMHYAGTVDYNINNWLVKNKDPLNETVVALYQKSNLKLLSILFANYSGADAAMTEGTEGKKEKKKKGSSFQTVSALHRENLNKLMTNLRSTHPHFVRCIIPNETKTPGAMENPLVMHQLRCNGVLEGIRICRKGFPNRILYGDFKQRYRILNPAAIPEGQFIDSRKGAEKLLGSLDIDHNQYKFGHTKVFFKAGLLGLLEEMRDERLSKIITAIQARSRGLLSRIEYQKIVERRDALLVIQWNVRAFMGVKNWPWMKLYFKIKPLLRSAEAEKEMANMKEEFLKLKEAFAKSEARRKELEEKMVTLLQEKNDLQLQVQAEQDNLCDAEERCEGLIKNKIQLEAKSKELTERLEDEEEMNAELTAKKRKLEDECSELKKDIDDLELTLAKVEKEKHATENKVKNLTEEMAALDEIIAKLTKEKKALQEAHQQTLDDLQSEEDKVNTLTKAKTKLEQQVDDLEGSLEQEKKIRMDLERAKRKLEGDLKLTQETVMDLENDKQQLEERLKKKDFEISQLNGKIEDEQAIIIQLQKKLKELQARVEELEEELEAERAARAKVEKQRADLARELEEISERLEEAGGATTLQIEMNKKREAEFLKLRRDLEEATLQHEATAAALRKKQADSVADLGEQIDNLQRVKQKLEKEKSELRLELDDVVSNMEQIVKSKTNLEKTCRTLEDQMNDYRSKCDEYQRTIHDFTTQKAKLQAENDEFTRQADDKESLISQLTRGKNSYTQQLEDIKRQLEEEVKAKNALAHALQSARHDCDLLREQYEEEQEAKAELQRSMSKANSEVAQWRTKYETDAIQRTEELEEAKKKLXQRLQEAEEAVEAVNAKCSSLEKTKHRLQNEIEDLMVDVERSNAAAAALDKKQRNFDKVLSEWKQKYEESQCELEGSQKEARALSTELFKLKNSYEESLDHLETMKRENKNLQEEISDLSEQLSEGGKSIHELEKLRKQLEQEKNEIQSALEEAEASLEHEEGKILRAQLEFNQVKADIERKLAEKDEEMEQSKRNLQRTIDTLQSSLEAECRSRNEALRLKKKMEGDLNEMEIQLSQANRQAAEAQKQLKSVHAHLKDCQIQLDEAMRANDEMKENIAIVERRNNLLQAEVEELRAALEQTERSRKLAEQELLDVSERVQLLHSQNTGLINQKKKLEVDASQLQTEVEEAVQECRNAEDKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTIKDLQHRLDEAEQIAMKGGKKQVQKLEARVRDLETEVEMEQKKSSEALKGIRKYERRIKELTYQTEEDRKNVVRLQDLVDKLQMKVKAYKRAAEEAEEQANTHLGKFRKLQHELDEAEERADIAESQVNKLRAKSRDVGSKVRGL  
  
  
>Tr\_Myh5   
MPLFDTTEFGEAAPYLRKSDQELLTSRTIAFDGKKRAWIPDDKEAYIEIEIKELKGDKVIVETKDGRTLTVKDGDIQQMNPPKYDMMEDMAMLTHLNEASVLYNLRRRYSAWMIYTYSGLFCVTVNPYKWLPVYTAPVVAAYKGKRRSESPPHIYSIADNAYNDMLRNRENQSMLITGESGAGKTVNTKRVIQYFAIVAALGDTTAKKGGTLEDQIIEANPAMEAFGNAKTIRNDNSSRFGKFIRIHFGHTGKLASSDIDIYLLEKSRVIFQQPGERSYHIYYQIMSQKKPELLDMLLVSSNPYDYHFCSQGVTTVESMDDGQELMATDHAMDILGFLPDEKYGCYKIVGAIMHFGNMKFKQKQREEQAEADGTESADKASYLMGVSSADLMKGLLHPRVKVGNEYVVKGQNVEQVNYAVGALAKATYDRMFKWLVGRINRTLYTSLPRQYFIGVLDIAGFEIFELNSFEQLCINFTNEKLQQFFNHHMFILEQEEYKREGIEWTFIDFGLDLQACIDLIEKPMGIMSILEEECMFPKATDYSFKAKLYDNHIGKSPNFQKPRPDKKRKYEAHFELVHYAGVVPYNIVGWLDKNKDPLNETVVACFQKSANKLLACLYENYVGSDSASDHKTGIKEKRKKAASFQTVSQVHKENLNKLMTNLRSTQPHFVRCIIPNETKTPGIIDPFLVLHQLRCNGVLEGIRICRKGFPNRIFYAEFKQRYRILNPQAIPDDKFVDSRKGAEKLLSTLDIDHIQYRFGHTKVFFKAGLLGHLEEMRDERLAKVLTLLQAAARGKIMRMELRKMTERRDALMIIQWNIRAFNAVKHWPWMKLFFKIKPLLKSATTEKELASLKEELAKLKEALEKSEVKRKELEERQVSLIQEKNDLALQLQAEQDNLADAEERCDLLIKTKIHLEAKVKEIMERLEDEEEINTSILASKRKLEDECAELKKDIDDLEITLAKVEKEKHATENKVKNLIEEMAALDETILKLSKEKKALQEAHQQTLDDLQAEEDKVNTLTKAKIKLEQQVDDLEGSLEQEKKLRMDLERAKRKLEGDVKLSLESIMDLENDKQQLEEKLKKKDFEMNELSTRVEDEQALVNQLQKKIKELQARTEELEEELESERACRAKVEKQRSEVARELEELSERLEEAGGATSAQIEMNKKREADFLKLRRDLEEAMLHHEATTAALRKKHADSVAELSEQIDSLQRVKQKLEKERSEAKMEIDDLASTVEQLSKNKASAEKTCRLYEDQMNEAKAKVDELQRQLNDSNSQRARAQTESGELSRKLEEREAMVAQLQRSKNSFSQSVEELKKQLEEENKAKSSLAHALQSSRHDCDLLREQYEEEQEAKGELQRALSKANAEVAQWRTKYETDAIQRTEELEEAKKKLVMRLQEAEETVEGSNAKCSSLEKTKHRLQTEIEDLVVDLERANAAATALDKKQRNFDKVLAECRQKYEECQSELEASQKESRGLSTELFKLKNSYXESLDHLETVKRENKNLQEEIADLTDQISQGAKTIHELEKMKKGLELEKSEIQAALEEVEGTLEHEESKTLRIQLELNQMKADVDRKLAEKDEELDNLRRNHQRTLNFMQATLDAEAKSRNEAVRLRKKMEGDLNEMEVQLNHANRQAAESQKLLRNLQVQIKDIQMELDETVHQNEELKDQVVVTERRNNLLAAEVEELRALLEQNDRARKLAEHELLEATERVNLLHSQNTSLISQKKKLENDLSTLSNEVDDAVQECRNAEDKAKKAITDAAMMAEELKKEQDTSAHLERMKKNMEQTVKDLQMRLDEAEQIALKGGKKQVQKLEARVKELENELESEQKKSQEFQKGVRKYERRIKELSYQAEEDKKNLIRLQELIDKLQVKVKSYKRQTEEAEEQANCNLSKYRKLQHELNDAEERADMAETQVNKLRVRTRDQGSKLAE  
  
>Ai\_MYH  
MNIDFSDPDFQYLAVDRKKLMKEQTAAFDGKKNCWVPDEKEGFASAEIQSSKGDEITVKIVADSSTRTVKKDDIQSMNPPKFEKLEDMANMTYLNEASVLYNLRSRYTSGLIYTYSGLFCIAVNPYRRLPIYTDSVIAKYRGKRKTEIPPHLFSVADNAYQNMVTDRENQSCLITGESGAGKTENTKKVIMYLAKVACAVKKKDEEASDKKEGSLEDQIIQANPVLEAYGNAKTTRNNNSSRFGKFIRIHFGPTGKIAGADIETYLLEKSRVTYQQSAERNYHIFYQICSNAIPELNDVMLVTPDSGLYSFINQGCLTVDNIDDVEEFKLCDEAFDILGFTKEEKQSMFKCTASILHMGEMKFKQRPREEQAESDGTAEAEKVAFLCGINAGDLLKALLKPKVKVGTEMVTKGQNMNQVVNSVGALAKSLYDRMFNWLVRRVNKTLDTKAKRNYYIGVLDIAGFEIFDFNSFEQLCINYTNERLQQFFNHHMFILEQEEYKKEGIAWEFIDFGMDLQMCIDLIEKPMGILSILEEECMFPKADDKSFQDKLYQNHMGKNRMFTKPGKPTRPNQGPAHFELHHYAGNVPYSITGWLEKNKDPINENVVALLGASKEPLVAELFKAPEEPAGGGKKKKGKSSAFQTISAVHRESLNKLMKNLYSTHPHFVRCIIPNELKQPGLVDAELVLHQLQCNGVLEGIRICRKGFPSRLIYSEFKQRYSILAPNAIPQGFVDGKTVSEKILAGLQMDPAEYRLGTTKVFFKAGVLGNLEEMRDERLSKIISMFQAHIRGYLIRKAYKKLQDQRIGLSVIQRNIRKWLVLRNWQWWKLYSKVKPLLSIARQEEEMKEQLKQMDKMKEDLAKTERIKKELEEQNVTLLEQKNDLFLQLQTLEDSMGDQEERVEKLIMQKADFESQIKELEERLLDEEDAAADLEGIKKKMEADNANLKKDIGDLENTLQKAEQDKAHKDNQISTLQGEISQQDEHIGKLNKEKKALEEANKKTSDSLQAEEDKCNHLNKLKAKLEQALDELEDNLEREKKVRGDVEKAKRKVEQDLKSTQENVEDLERVKRELEENVRRKEAEISSLNSKLEDEQNLVSQLQRKIKELQARIEELEEELEAERNARAKVEKQRAELNRELEELGERLDEAGGATSAQIELNKKREAELLKIRRDLEEASLQHEAQISALRKKHQDAANEMADQVDQLQKVKSKLEKDKKDLKREMDDLESQMTHNMKNKGCSEKVMKQFESQMSDLNARLEDSQRSINELQSQKSRLQAENSDLTRQLEDAEHRVSVLSKEKSQLSSQLEDARRSLEEETRARSKLQNEVRNMHADMDAIREQLEEEQESKSDVQRQLSKANNEIQQWRSKFESEGANRTEELEDQKRKLLGKLSEAEQTTEAANAKCSALEKAKSRLQQELEDMSIEVDRANASVNQMEKKQRAFDKTTAEWQAKVNSLQSELENSQKESRGYSAELYRIKASIEEYQDSIGALRRENKNLADEIHDLTDQLSEGGRSTHELDKARRRLEMEKEELQAALEEAEGALEQEEAKVMRAQLEIATVRNEIDKRIQEKEEEFDNTRRNHQRALESMQASLEAEAKGKADAMRIKKKLEQDINELEVALDASNRGKAEMEKTVKRYQQQIREMQTSIEEEQRQRDEARESYNMAERRCTLMSGEVEELRAALEQAERARKASDNELADANDRVNELTSQVSSVQGQKRKLEGDINAMQTDLDEMHGELKGADERCKKAMADAARLADELRAEQDHSNQVEKVRKNLESQVKEFQIRLDEAEASSLKGGKKMIQKLESRVHELEAELDNEQRRHAETQKNMRKADRRLKELAFQADEDRKNQERLQELIDKLNAKIKTFKRQVEEAEEIAAINLAKYRKAQHELEEAEERADTADSTLQKFRAKSRSSVSVQRSSVSVSASN