>Human

MAAASSPPRAERKRWGWGRLPGARRGSAGLAKKCPFSLELAEGGPAGGALYAPIAPGAPGPAPPASPAAPAAPPVASDLGPRPPVSLDPRVSIYSTRRPVLARTHVQGRVYNFLERPTGWKCFVYHFAVFLIVLVCLIFSVLSTIEQYAALATGTLFWMEIVLVVFFGTEYVVRLWSAGCRSKYVGLWGRLRFARKPISIIDLIVVVASMVVLCVGSKGQVFATSAIRGIRFLQILRMLHVDRQGGTWRLLGSVVFIHRQELITTLYIGFLGLIFSSYFVYLAEKDAVNESGRVEFGSYADALWWGVVTVTTIGYGDKVPQTWVGKTIASCFSVFAISFFALPAGILGSGFALKVQQKQRQKHFNRQIPAAASLIQTAWRCYAAENPDSSTWKIYIRKAPRSHTLLSPSPKPKKSVVVKKKKFKLDKDNGVTPGEKMLTVPHITCDPPEERRLDHFSVDGYDSSVRKSPTLLEVSMPHFMRTNSFAEDLDLEGETLLTPITHISQLREHHRATIKVIRRMQYFVAKKKFQQARKPYDVRDVIEQYSQGHLNLMVRIKELQRRLDQSIGKPSLFISVSEKSKDRGSNTIGARLNRVEDKVTQLDQRLALITDMLHQLLSLHGGSTPGSGGPPREGGAHITQPCGSGGSVDPELFLPSNTLPTYEQLTVPRRGPDEGS

>Cow

MAAATSPPRAERKRWGGGRLPGARRGSAGLAKKCPFSLELAEGSPAGSALYAPIAPPGAPGPVSPAAPPA AADLGPRPRVSLDPRVSIYSARRPLLARTHIQGRVYNFLERPTGWKCFVYHFAVFLIVLVCLIFSVLSTIEQYVALATGTLFWMEIVLVVFFGTEYVVRLWSAGCRSKYVGIWGRLRFARKPISIIDLIVVVASMVVLCVGSKGQVFATSAIRGIRFLQILRMLHVDRQGGTWRLLGSVVFIHRQELITTLYIGFLGLIFSSYFVYLAEKDAVNESGQVEFGSYADALWWGVVTVTTIGYGDKVPQTWVGKTIASCFSVFAISFFALPAGILGSGFALKVQQKQRQKHFNRQIPAAASLIQTAWRCYAAENPDSSTWKIYVRKPSRNHALLSPSPKPKKSAMVKKKKFKLDKDNGVSPGEKALVVPHITCDPVAEDRRPEPFSVDGYDSTVKKSPTLLEVSTAHFMRTNSFAEDLDLDGEALLTPITHVSQLREHHRATIKVIRRMQYFVAKKKFQQARKPYDVRDVIEQYSQGHLNLMVRIKELQRRLDQSIGKPSLFISVSEKTKDRGSNSIGARLNRVEDKVTQLDQRLVLITDMLHQLLALQNGGPPAGRPPSTAGAQAVQPSSGGSINPELFLPSNALPTYEQLTVPHGGPDEGS

>Mouse

MDTASSPPSAERKRAGWSRLLGARRGSAVVKKCPFSLELAEGGPEGSTVYAPIAPTGAPGLAPPMSTPVSPAPAPADLGPRPRVSLDPRVSIYSARRPLLARTHIQGRVYNFLERPTGWKCFVYHFTVFLIVLVCLIFSVLSTIEQYAALATGTLFWMEIVLVVFFGTEYVVRLWSAGCRSKYVGIWGRLRFARKPISIIDLIVVVASMVVLCVGSKGQVFATSAIRGIRFLQILRMLHVDRQGGTWRLLGSVVFIHRQELITTLYIGFLGLIFSSYFVYLAEKDAVNESGRIEFGSYADALWWGVVTVTTIGYGDKVPQTWVGKTIASCFSVFAISFFALPAGILGSGFALKVQQKQRQKHFNRQIPAAASLIQTAWRCYAAENPDSATWKIYVRKPARSHTLLSPSPKPKKSVMVKKKKFKLDKDNGMSPGEKMFNVPHITYDPPEDRRPDHFSIDGYDSSVRKSPTLLEVSTPHFLRTNSFAEDLDLEGETLLTPITHVSQLRDHHRATIKVIRRMQYFVAKKKFQQARKPYDVRDVIEQYSQGHLNLMVRIKELQRRLDQSIGKPSLFIPISEKSKDRGSNTIGARLNRVEDKVTQLDQRLVIITDMLHQLLSMQQGGPTCNSRSQVVASNEGGSINPELFLPSNSLPTYEQLTVPQTGPDEGS

>Rat

MDTASSPPNAERKRAGWGRLLGARRGSAGLAKKCPFSLELAEGGPTGGTVYAPIAPTGAPGLAPPMSPPVSPVPAPADLGPRPRVSLDPRVSIYSTRRPLLARTHIQGRVYNFLERPTGWKCFVYHFTVFLIVLVCLIFSVLSTIEQYAALATGTLFWMEIVLVVFFGTEYVVRLWSAGCRSKYVGIWGRLRFARKPISIIDLIVVVASMVVLCVGSKGQVFATSAIRGIRFLQILRMLHVDRQGGTWRLLGSVVFIHRQELITTLYIGFLGLIFSSYFVYLAEKDAVNESGRIEFGSYADALWWGVVTVTTIGYGDKVPQTWVGKTIASCFSVFAISFFALPAGILGSGFALKVQQKQRQKHFNRQIPAAASLIQTAWRCYAAENPDSSTWKIYVRKPARSHTLLSPSPKPKKSVMVKKKKFKLDKDNGLSPGEKIFNVPHITCDPPEDRRPDHFSIDGYDSSVRKSPTLLEVSTPHFLRTNSFAEDLDLEGETLLTPITHVSQLRDHHRATIKVIRRMQYFVAKKKFQQARKPYDVRDVIEQYSQGHLNLMVRIKELQRRLDQSIGKPSLFIPISEKSKDRGSNTIGARLNRVEDKVTQLDQRLVIITDMLHQLLSLQQGGPTCNNRSQVVASDERGSINPELFLPSNSLPTYEQLTVPQTGPDEGS

>Chicken

MSSSSPPGEHRSRSLGRLSLPRKGSMTPGKKPSSLELAESVPNAHYAPLPEAQGGQPPAGSGPGAARERPPHVRSEVVVVGAESARPPVSLDPRVSIYSLRKPLLSRSNIQGRVYNFLERPTGWKCFVYHFTVFLIVLICLIFSVLSTIEQYAALATGTLFWMEIVLVVFFGTEYVVRLWSAGCRSKYVGIWGRLRFARKPISIIDLIVVVASMIVLCVGSKGQVFATSAIRGIRFLQILRMLHVDRQGGTWRLLGSVVFIHRQELITTLYIGFLGLIFSSYFVYLAEKDAVNDSGETEFGSYADALWWGVVTVTTIGYGDKVPQTWIGKTIASCFSVFAISFFALPAGILGSGFALKVQQKQRQKHFNRQIPAAASLIQTAWRCYAAENPDSSTWKIYIRRPARNYHLLSPSPKPKKSVMVKKKKFKLDKDNGPSSPDKMLTVPHITYDHVTDDKKPDFCFDTYENSVKKSPTFLDVNTGPFIRTNSFADELDLEGETLLTPITHISQLREHHRAAIKVIRRMQYFVAKKKFQQARKPYDVRDVIEQYSQGHLNLMVRIKELQRRLDQSIGKPSLFISVSEKSKDRGNNTIGARLNRVEDKVTQMDQKLNLITEMLHRLVSSHQRDQGNNRSSQRGNSVNSDLFIPNNTLPTYEQLTVPERNEDDIS

>Dog

MVNSERRDSQPLAWYAAQTGDLRVPAWEECRSRALPSTPACASVSALGAQGNSASSRWRPLLGRALSLPEQHAGLNMNSIRGMQPVLSEDGGVPPAIAYLIFNVLNKPVLLILYLPELRPLMALLLLEVRSAGMGTLTRGSPGIRPPKPRPPAACAVAVSLLPGSSEPTDRPGLMISVCGEKDGEDPGARSEDRLHLSTVRGVLSRCTFPAASIWTGEKLLEGVTVGAETGVHPDATATTTSKLGPAVPWEAECGVQNLDLRRVEGLERCEPPSSRMSSKRSACWFSSLLGVQVHTPQCDLGTGGRDSGASDTNEPCVPPIHLLETKGGLAPPAGGFVQLAGFSFLIVLVCLIFSVLSTIEQYVALATGTLFWMEIVLVVFFGTEYVVRLWSAGCRSKYVGIWGRLRFARKPISIIDLIVVLASMVVLCVGSKGQVFATSAIRGIRFLQILRMLHVDRQGGTWRLLGSVVFIHRQELITTLYIGFLGLIFSSYFVYLAEKDAVNDSGQVEFGSYADALWWGVVTVTTIGYGDKVPQTWVGKTIASCFSVFAISFFALPAGILGSGFALKVQQKQRQKHFNRQIPAAASLIQTAWRCYAAENPDSSTWKIYVRKPARSHALLSPSPKPKKSVMVKRKKFKQDKDNGVSPGEKMLTVPHITCEPVSEERRPDHFSVDNCDSSVKKSPMLLEVSTAHFMRTNSFAEDLDLEGETLLAPITHVSQLREHHRATIKVIRRMQYFVAKKKFQQARKPYDVRDVIEQYSQGHLNLMVRIKELQRRLDQSIGKPSLFISVSEKSKDRGSNTIGARLNRVEDKVTQLDQRLVLITDMLHQLLSLYHGGPPGGRPPSGSGVQVVQPCSSINPELFLPSNTLPTYEQLTVPRRGPEEGS

>Zebrafish

MTSPAHSTATEASWTAGAADLQMTEALHLRNDGVRFPSSVPVDPAVITQHPPSHLHPRMSVYSATRPTLS RSFLQGRVYNFLERPTGWKCFVYHFTVFLIVLSCLILSVLSTIDEYQALANKTLFWMELVLVMFFGVEYVVRLWSAGCRSKYVGILGRLRFARKPISVIDLIVVVASIIVLAFGSNGQVFATSAVRGVRFLQILRMLHVDRQGGTWRLLGSVVFIHRQELITTLYIGFLGLIFSSYFVYLAEKDAVDDHGNSGFGSYADALWWGVVTVTTIGYGDKVPQTWIGKTIASCFSVFAISFFALPAGILGSGFALKVQQKQRQKHFNRQIPAAASLIQASWRCFALLNPDSATYKLFVKRNLSSSGSSPKLKVKMRRKMKISDRNNGQNSPAVPSITYDSFDDGRDSRQETLTSLQQSVISDGTNTTRRYERAPSWNSLSSFQFSTPPATKPGVFEVSSRPTLQRSSSIADDMETEPEREIVLIPVAHVSQLRDSHRAAIRVIQRMYYFVARKKFQQARKPYDVRDVIEQYSQGHLNLMVRIKELQRRLDHSLGKQSLFQTSSERLKDKGTNTIGSRLNRMDEKITHMDRTLNSIAESLNLMLARERRGDLARGKEQRSTMRRQ SATFSLSVLDSSEQLSTTTAIHEDS

>Nematode

MLTTSGYPNGSLRSSLDDSPQDPEESETFLLGMVTGDGLGKMFNARYRNIKEKKAAKMTYRAMIYNCLERPTGWKCFLYHFSVFLIVLICLILSVLSTVEEHSHFAAELLYILEIVLVVFFSVEFIVRLWSAGCRSKYIGVYGRLKFVRKPITLIDLVVVICSLFVICFGTEGQVFAASAMRGIRFLQILRMLHVDRQGGTWRLLGSVVFIHRQELITTLYIGFLGLIFSSYFVYLAEKDHIGVDGRQAFTSYADALWWGVITMTTIGYGDVVPQTWLGRIVASCFSIFAISFFALPAGILGSGFALKVQQKQRQKHFNRQIPAAATLIQCLWRCHAAEKKVSATWNAHIDPLAHETKETHHWNGKKHASSMDSNNLTRKRQLFKKQSSLVNTFRRKGSPSTDVEMGELQQERLLRHERNSDTDDEKRIYRVGADIEIDYETEEPTTPTRPQGHISHVCELTDAHRNAIRAIRRVKYFVARRRFQQARKPYDVRDVIEQYSQGHLNMMVRIKELQRRLDQTLGKPGQYDGKGSRKGHPVTIGSRLSRLELQMSSLDRKVESSNRTLNALYRLMADRNSLTISPSPPALISRPVSPAACLSPRDQLSPTSISSQRSGSPGWQ

>Arabidopsis

MDLKYSASHCNLSSDMKLRRFHQHRGKGREEEYDASSLSLNNLSKLILPPLGVASYNQNHIRSSGWIISPMDSRYRCWEFYMVLLVAYSAWVYPFEVAFLNSSPKRNLCIADNIVDLFFAVDIVLTFFVAYIDERTQLLVREPKQIAVRYLSTWFLMDVASTIPFDAIGYLITGTSTLNITCNLLGLLRFWRLRRVKHLFTRLEKDIRYSYFWIRCFRLLSVTLFLVHCAGCSYYLIADRYPHQGKTWTDAIPNFTETSLSIRYIAAIYWSITTMTTVGYGDLHASNTIEMVFITVYMLFNLGLTAYLIGNMTNLVVEGTRRTMEFRNSIEAASNFVNRNRLPPRLKDQILAYMCLRFKAESLNQQHLIDQLPKSIYKSICQHLFLPSVEKVYLFKGVSREILLLLVSKMKAEYIPPREDVIMQNEAPDDVYIIVSGEVEIIDSEMERESVLGTLRCGDIFGEVGALCCRPQSYTFQTKSLSQLLRLKTSFLIETMQIKQQDNATMLKNFLQHHKKLSNLDIGDLKAQQNGENTDVVPPNIASNLIAVVTTGNAALLDELLKAKLSPDITDSKGKTPLHVAASRGYEDCVLVLLKHGCNIHIRDVNGNSALWEAIISKHYEIFRILYHFAAISDPHIAGDLLCEAAKQNNVEVMKALLKQGLNVDTEDHHGVTALQVAMAEDQMDMVNLLATNGADVVCVNTHNEFTPLEKLRVVEEEEEEERGRVSIYRGHPLERRERSCNEAGKLILLPPSLDDLKKIAGEKFGFDGS ETMVTNEDGAEIDSIEVIRDNDKLYFVVNKII