>AtEDR1-1

MKHIFKKLHRGGNQEQQNRTNDAAPPSDQNRIHVSANPPQATPSSVTETLPVAGATSSMASPAPTAASNRADYMSSEEEYQVQLALAISASNSQSSEDPEKHQIRAATLLSLGSHQRMDSRRDSSEVVAQRLSRQYWEYGVLDYEEKVVDSFYDVYSLSTDSAKQGEMPSLEDLESNHGTPGFEAVVVNRPIDSSLHELLEIAECIALGCSTTSVSVLVQRLAELVTEHMGGSAEDSSIVLARWTEKSSEFKAALNTCVFPIGFVKIGISRHRALLFKVLADSVRLPCRLVKGSHYTGNEDDAVNTIRLEDEREYLVDLMTDPGTLIPADFASASNNTVEPCNSNGNKFPTAQFSNDVPKLSEGEGSSHSSMANYSSSLDRRTEAERTDSSYPKVGPLRNIDYSSPSSVTSSTQLENNSSTAIGKGSRGAIIECSRTNMNIVPYNQNSEEDPKNLFADLNPFQNKGADKLYMPTKSGLNNVDDFHQQKNNPLVGRSPAPMMWKNYSCNEAPKRKENSYIENLLPKLHRDPRYGNTQSSYATSSSNGAISSNVHGRDNVTFVSPVAVPSSFTSTENQFRPSIVEDMNRNTNNELDLQPHTAAVVHGQQNDESHIHDHRKYTSDDISTGCDPRLKDHESTSSSLDSTSYRNDPQVLDDADVGECEIPWNDLVIAERIGLGSYGEVYHADWHGTEVAVKKFLDQDFSGAALAEFRSEVRIMRRLRHPNVVFFLGAVTRPPNLSIVTEFLPRGSLYRILHRPKSHIDERRRIKMALDVAMGMNCLHTSTPTIVHRDLKTPNLLVDNNWNVKVGDFGLSRLKHNTFLSSKSTAGTPEWMAPEVLRNEPSNEKCDVYSFGVILWELATLRLPWRGMNPMQVVGAVGFQNRRLEIPKELDPVVGRIILECWQTDPNLRPSFAQLTEVLKPLNRLVLPTPQ

>AtEDR1-2

MSKMKHLLRKLHIGGSSGVGGGFADHHRLDDSTRPMIDPSPILSTSPSPASTSSVSSSGFGNASTTMPRLDTFEPVGRDLTAVDGVDFNLMEEEYQVQLAMAISVSDPDPRENADTAQLDAAKRISLGVSAPVTDADSAVDFLSLRYWGHKVINYDQKVRDGFYDVYGITSNSLSQGKMPLLVDLQAISISDNVDYEVILVNRLIDPELQELERRVFALASECPDFAPGQVSSDLTQKIANIVVEQMGGPVENADEALRRWMLRSYELRNSLNTTILPLGRVNVGLARHRALLFKVLADRINLPCMLVKGSYYTGTDDGAVNLIKLDDKSEYIIDLMGAPGALIPSEVPSSFLPVSCTDTRVFPENLDSLQHSSPVLEKEIETPAFSVSKEADSRSGMVANFFTGNQEENSDRCAVEKHQTERFEHDFGKLMHSQQISGENMPPFSGKPTCAQKVKVKNVSKYVISAAKNPEFAQKLHAVLLESGASPPPDLFMDINPHNLRGKNLLQELRQESSNSMVSGIPCYPEKVAEQLRESERNPTAESYQQSVEVDLSMKRNFDLDNTGKASSSENMEVGTADGESAVCDSHDQGINPLLGEAAKWEIMWEDLQIGERIGIGSYGEVYRAEWNGTEVAVKKFLDQDFSGDALTQFKSEIEIMLRLRHPNVVLFMGAVTRPPNFSILTEFLPRGSLYRLLHRPNHQLDEKRRMRMALDVAKGMNYLHTSHPTVVHRDLKSPNLLVDKNWVVKVCDFGLSRMKHHTYLSSKSTAGTPEWMAPEVLRNEPANEKCDVYSFGVILWELATSRVPWKGLNPMQVVGAVGFQNRRLEIPDDIDLTVAQIIRECWQTEPHLRPSFTQLMQSLKRLQGLNISNRANTSESLM

>AtEDR1-3

MKVKEETLKNLGDGVVLRPVDHCSSIWSMKMNMKNFLKKLHISPNQSDEAEGSISTTKSNHHKSIDVSSSSSPRSHHSNSPEIKPFSGLSNWLSSVGHRKIPSPPNSFNAKNRAATVDDTVVVNGSEHVDLGSKDPAVEEENQIQLALELSAREDPEATQIEAIKQFSLGSCAPENSPAELIAYRYWNYNCLGYDDKILDGFYDLYGVLNASSAERIPPLLDLQGTPVSDGVTWEAVLVNRSGDSNLLRLEQMALDIAAKSRSVSSSGFVNSELVRKLAILVGDYMGGPVVHPESMLRAWRSLSYSLKATLGSMVLPLGSLTIGLARHRALLFKVLCDSVGVPCRIVKGQQYTGSEDVAMNFIKADDGREYIVDLMGDPGTLIPADAAGLQIDYDESAYSASPGDNDSIHVASSSNGIESSYEENTEFRTGEHRSSTKSSGERNQSGGGGDLIVHPNISREDVKNQKKVEKAPFQNLSSRPIHSFTHMRSPSWTEGVSSPAAQRMKVKDVSQYMIDAAKENPRLAQKLHDVLLESGVVAPPNLFSEVYPQQLEATVESKNSTEAKKERGKDLETTQEGRHQNGFGPVRFLPPLPRVQSKTNAHDQRDNGKVVSQSDSSHSEASSTEYARTVPAAVAAAAVVASSMVAAAAAKSANSDSSPIELPAAAAATATAAAVVATAAAVSRQLELGSNSDGDDGSGGHEPQGSGDSNHGPNSGGERISDKSIGNESSKSDCDDVSDCEILWEEITVGERIGLGSYGEVYRGDWHGTEVAVKKFLDQDLTGEALEEFRSEVRIMKKLRHPNIVLFMGAVTRPPNLSIVTEFLPRGSLYRLIHRPNNQLDERRRLRMALDAARGMNYLHSCNPMIVHRDLKSPNLLVDKNWVVKVCDFGLSRMKHSTYLSSKSTAGTAEWMAPEVLRNEPADEKCDVYSYGVILWELFTLQQPWGKMNPMQVVGAVGFQHRRLDIPDFVDPAIADLISKCWQTDSKLRPSFAEIMASLKRLQKPVTGSNIPRPVPSSSSLPTEHEQKD

>AtEDR1-4

MKMNMKKFLKKLRITPNQRDDGEGSVSNRSNKSSDAEPSPSDSLRSQDNSEFKPFLGLSNWLSSVTHRKSPSSSNATNSKEDDTTMEHGGPVGSESGMQGLGSSSNSKDPEVEEEYQIQLALELSAREDPEAAQIEAMKQFSLGSRPSAPENTPAELMAYRYWNYNCLGYDDKIVDGFYDLCGVMNESSLKRIPPLVDLQGTLVSDGVTWDAVLVNSSKDSNLLRLEQMALDIAAKSKSASSSGFVNSELVRQLAVLVADYMGGPVLDPDSTLRAWWSLSYSLKATLRSMVLPLGSLTIGLARHRALLFKVLCDSVGVPCRIVKGQQYTGSDDVAMNSIKTDDGREYIVDLMGDPGTLIPADAAGLQMDFDDSVYSASPRDVDSSHVASSSSGVESSIEEHTESWSAEHRSRTKGSREENQSAGGGDLMIPNIREAVGSQKAPVQHLSSKPTHSFTHARSPSWTEGVSSPAGRRMKVKDVSQYMIDAAKENPQLAQKLHDVLLESGVVAPRNLFSEVYSESMEATGEIKSVAESNDEKGKDFGTIQQGRNQSNLGPVRFLPPLPRPQSKAITHDLREHSGSGLGHLSEHCNIDGHSDSSHSETSTDYPRNVPVAVAAAAVVASSMVVAAAKSANSDSSTLELSAAAAAAVMATAAAVSRQFELDSLSNGDAGSGGLHGVDSGGERISDRSIGNESSKSDAAIDDVAECEILWEEITVAERIGLGSYGEVYRGDWHGTAVAVKKFIDQDITGEALEEFRSEVRMMRRLRHPNIVLFMGAVTRPPNLSIVTEFLPRGSLYRLIHRPNNQLDERKRLRMALDAARGMNYLHSCNPVIVHRDLKSPNLLVDKNWVVKVCDFGLSRMKVSTYLSSKSTAGTAEWMAPEVLRNEPADEKCDVYSYGVILWELFTLQQPWGKMNPMQVVGAVGFQHRRLDIPEFVDPGIADIIRKCWQTDPRLRPSFGEIMDSLKQLQKPIQRAAVPSSSALTTDEQEQ

>AtEDR1-5

MEMPGRRSNYTLLSQFSDDQVSVSVTGAPPPHYDSLSSENRSNHNSGNTGKAKAERGGFDWDPSGGGGGDHRLNNQPNRVGNNMYASSLGLQRQSSGSSFGESSLSGDYYMPTLSAAANEIESVGFPQDDGFRLGFGGGGGDLRIQMAADSAGGSSSGKSWAQQTEESYQLQLALALRLSSEATCADDPNFLDPVPDESALRTSPSSAETVSHRFWVNGCLSYYDKVPDGFYMMNGLDPYIWTLCIDLHESGRIPSIESLRAVDSGVDSSLEAIIVDRRSDPAFKELHNRVHDISCSCITTKEVVDQLAKLICNRMGGPVIMGEDELVPMWKECIDGLKEIFKVVVPIGSLSVGLCRHRALLFKVLADIIDLPCRIAKGCKYCNRDDAASCLVRFGLDREYLVDLVGKPGHLWEPDSLLNGPSSISISSPLRFPRPKPVEPAVDFRLLAKQYFSDSQSLNLVFDPASDDMGFSMFHRQYDNPGGENDALAENGGGSLPPSANMPPQNMMRASNQIEAAPMNAPPISQPVPNRANRELGLDGDDMDIPWCDLNIKEKIGAGSFGTVHRAEWHGSDVAVKILMEQDFHAERVNEFLREVAIMKRLRHPNIVLFMGAVTQPPNLSIVTEYLSRGSLYRLLHKSGAREQLDERRRLSMAYDVAKGMNYLHNRNPPIVHRDLKSPNLLVDKKYTVKVCDFGLSRLKASTFLSSKSAAGTPEWMAPEVLRDEPSNEKSDVYSFGVILWELATLQQPWGNLNPAQVVAAVGFKCKRLEIPRNLNPQVAAIIEGCWTNEPWKRPSFATIMDLLRPLIKSAVPPPNRSDL

>AtEDR1-6

MEMPGRRSNYTLLSQFSDDQVSVSVTGAPPPHYDSLSSENRSNHNSGNTGKAKAERGGFDWDPSGGGGGDHRLNNQPNRVGNNMYASSLGLQRQSSGSSFGESSLSGDYYMPTLSAAANEIESVGFPQDDGFRLGFGGGGGDLRIQMAADSAGGSSSGKSWAQQTEESYQLQLALALRLSSEATCADDPNFLDPVPDESALRTSPSSAETVSHRFWVNGCLSYYDKVPDGFYMMNGLDPYIWTLCIDLHESGRIPSIESLRAVDSGVDSSLEAIIVDRRSDPAFKELHNRVHDISCSCITTKEVVDQLAKLICNRMGGPVIMGEDELVPMWKECIDGLKEIFKVVVPIGSLSVGLCRHRALLFKVLADIIDLPCRIAKGCKYCNRDDAASCLVRFGLDREYLVDLVGKPGHLWEPDSLLNGPSSISISSPLRFPRPKPVEPAVDFRLLAKQYFSDSQSLNLVFDPASDDMGFSMFHRQYDNPGGENDALAENGGGSLPPSANMPPQNMMRASNQIEAAPMNAPPISQPVPNRANRELGLDGDDMDIPWCDLNIKEKIGAGSFGTVHRAEWHGSDVAVKILMEQDFHAERVNEFLREVAIMKRLRHPNIVLFMGAVTQPPNLSIVTEYLSRGSLYRLLHKSGAREQLDERRRLSMAYDVAKGMNYLHNRNPPIVHRDLKSPNLLVDKKYTVKVCDFGLSRLKASTFLSSKSAAGTPEWMAPEVLRDEPSNEKSDVYSFGVILWELATLQQPWGNLNPAQVVAAVGFKCKRLEIPRNLNPQVAAIIEGCWTNEPWKRPSFATIMDLLRPLIKSAVPPPNRSDL

>AtEDR1-7

MPHRTTYFFPRQFPDRGFDSFSLKNDHDKKKSSSNVGESFGFQRDNKSNGVGEDSNKEKESTVFSSNPLLSKSSAVSDLFSDDRKSEKKHQQQLAAFYEWLAEKKANLSRSSSTTTTHGRGVKPTRFSMSSDADEERELLLSSPADPAPLPATSSPDSIIDSARTVNIHERNIDRSFDREVSLPRMSSESSFAGSFFSGTTVDGNFSNFSSHTDARETSTTTLVSVNKEEEEVEVREQGKEQSLAQKSREGYYLQVTLAKWLSSQANLACESVHIQSTESISYRFWVSGCLSYSDKISDGFYSILGMDPYLWLMCNNSEDGKRIPSLLLLKETEPNDTSMEVVLIDRREDSRLKELEDKAHELYCSSDNMLVLVEKLGRLVAVYMGGNFQVEQGDLQKRWKLVSNRLKEFRKCIILPIGSLTMGLCRHRAILFKKLADYIGLPCRIARGCRYCKESHQSSCLVKIDDDRKLSREYVVDLIGEPGNVHDPDSSINGETQCQIPSPLQMSHLTDFSRPCVHSTSPCQTVESKTSRTLSENIQRSGSQGQVHKEFELPDNAGTVCCAHIDQTCCAKVSSMVLTESVLRALPLDIPNLSEEKIAPQETCKEETVLLEDPTAMKQPNLSVEPEIVEADTRKDKKGRLPVDAISPYLTIEPSLASDWLEVSWNELHIKERVGAGSFGTVHRAEWHGSDVAVKILSIQDFHDDQFREFLREVCKQAVAIMKRVRHPNVVLFMGAVTERPRLSIITEYLPRGSLFRLIHRPASGELLDQRRRLRMALDVAKGLNYLHCLNPPVVHWDLKSPNLLVDKNWTVKVCDFGLSRFKANTFIPSKSVAGTPEWMAPEFLRGEPTNEKSDVYSFGVVLWELITLQQPWNGLSPAQVVGAVAFQNRRLIIPPNTSPVLVSLMEACWADEPSQRPAFGSIVDTLKKLLKSPVQLIQMGGDKGVIPTKSAPIL

>AtEDR1-8

MEERRDDESSPTHQGSELAERVKLLSFESQGEALSKDSPRSVEQDCSPGQRASQHLWDTGILSEPIPNGFYSVVPDKRVKELYNRLPTPSELHALGEEGVRIEVILVDFQKDKKLAMLKQLITTLVSGSGTNPALVIKKIAGTVSDFYKRPTLESPSKLALEENAFLFENHGAQLLGQIKRGCCRARAILFKVLADTVGLESRLVVGLPSDGTVNCMDSNKHMSVIVVLNSVELLVDLIRFPGQLVPRSAKAIFMSHISPAGESDSAENDSCDSPLEPNSPLYERRDPESTEKDENLQFYRKLEGYPNASGSSLRSLMLRPSTAIERKLSNTSHSEPNVATVFWRRSRRKVIAEQRTASSSPEHPSMRRGRSMLSTGRNSFRDYTGEASSPSSSSTSEIRKTRRRSFRITPEIGDDIASAVREMYEKSKQNRLLQGREDENSSVIDNNVSGLHLDDELNSKKTMSLPSSPHAYRCQTFGRRGPSEFAVKDTWNKVVESSTLQNQPLLPYQEWDIDFSELTVGTRVGIGFFGEVFRGVWNGTDVAIKLFLEQDLTAENMEDFCNEISILSRVRHPNVVLFLGACTKPPRLSMITEYMELGSLYYLIHMSGQKKKLSWHRRLRMLRDICRGLMCIHRMKIVHRDLKSANCLVDKHWTVKICDFGLSRIMTDENMKDTSSAGTPEWMAPELIRNRPFTEKCDIFSLGVIMWELSTLRKPWEGVPPEKVVFAVAHEGSRLEIPDGPLSKLIADCWAEPEERPNCEEILRGLLDCEYTLC

>AtEDR1-9

MEERRDDESSPTHQGSELAERVKLLSFESQGEALSKDSPRSVEQDCSPGQRASQHLWDTGILSEPIPNGFYSVVPDKRVKELYNRLPTPSELHALGEEGVRIEVILVDFQKDKKLAMLKQLITTLVSGSGTNPALVIKKIAGTVSDFYKRPTLESPSKLALEENAFLFENHGAQLLGQIKRGCCRARAILFKVLADTVGLESRLVVGLPSDGTVNCMDSNKHMSVIVVLNSVELLVDLIRFPGQLVPRSAKAIFMSHISPAGESDSAENDSCDSPLEPNSPLYERRDPESTEKDENLQFYRKLEGYPNASGSSLRSLMLRPSTAIERKLSNTSHSEPNVATVFWRRSRRKVIAEQRTASSSPEHPSMRRGRSMLSTGRNSFRDYTGEASSPSSSSTSEIRKTRRRSFRITPEIGDDIASAVREMYEKSKQNRLLQGREDENSSVIDNNVSGLHLDDELNSKKTMSLPSSPHAYRCQTFGRRGPSEFAVKDTWNKVVESSTLQNQPLLPYQEWDIDFSELTVGTRVGIGFFGEVFRGVWNGTDVAIKLFLEQDLTAENMEDFCNEISILSRVRHPNVVLFLGACTKPPRLSMITEYMELGSLYYLIHMSGQKKKLSWHRRLRMLRDICRGLMCIHRMKIVHRDLKSANCLVDKHWTVKICDFGLSRIMTDENMKDTSSAGTPEWMAPELIRNRPFTEKCDIFSLGVIMWELSTLRKPWEGVPPEKVVFAVAHEGSRLEIPDGPLSKLIADCWAEPEERPNCEEILRGLLDCEYTLC

>AtEDR1-10

MGETGDDAGPSEQGPSNQTWWPSEFVEKFGSVYLGSQEETSSTKDSPRNLGQDGLPSSTASNILWSTGSLSEPIPNGFYSVIPDNRLKQLFNNIPTLEDLHALGDEGLKADVILVDFQKDKKLFRQKQLITKLVSGLNSKPATIIKKIAGLVADVYKQSTLQSPAKSTQSFENCGIQLLGQIKHGSCRPRAILFKVLADTVGLQSRLVVGLPSDGAAESVDSYSHISVTVLLNSVEMLVDLMRFPGQLIPLSTKAIFMSHISAAGESDSAENDSCDSPLEPNSPMFGYPEKFDHENAEKDENLSLHRKLDGSPNTSGPPSRNMLLRSASALERKLSFSQSESNMANEFWRQSRRKVIADQRTASSSPEHLSFRARTKSMLSGDKNLARDFTGDVATSSCKSVGGAKMETKRIRRRSISITPEIGDDIVRAVRAMNEALKQNRLSKEQGDDDSSPNSPNDRTESSHLQKNVSGFHLDAHDQVSGGRSTLSREPLDPQKAISLPSSPQNYRSQYEQSGSSHRNISHIWDKVLGSPMFQNKPLLPYEEWNIDFSELTVGTRVGIGFFGEVFRGIWNGTDVAIKVFLEQDLTAENMEDFCNEISILSRLRHPNVILFLGACTKPPRLSLITEYMEMGSLYYLLHLSGQKKRLSWRRKLKMLRDICRGLMCIHRMGIVHRDIKSANCLLSNKWTVKICDFGLSRIMTGTTMRDTVSAGTPEWMAPELIRNEPFSEKCDIFSLGVIMWELCTLTRPWEGVPPERVVYAIAYEGARLEIPEGPLGKLIADCWTEPEQRPSCNEILSRLLDCEYSLC

>AtEDR1-11

MGETGDDAGPSEQGPSNQTWWPSEFVEKFGSVYLGSQEETSSTKDSPRNLGQDGLPSSTASNILWSTGSLSEPIPNGFYSVIPDNRLKQLFNNIPTLEDLHALGDEGLKADVILVDFQKDKKLFRQKQLITKLVSGLNSKPATIIKKIAGLVADVYKQSTLQSPAKSTQSFENCGIQLLGQIKHGSCRPRAILFKVLADTVGLQSRLVVGLPSDGAAESVDSYSHISVTVLLNSVEMLVDLMRFPGQLIPLSTKAIFMSHISAAGESDSAENDSCDSPLEPNSPMFGYPEKFDHENAEKDENLSLHRKLDGSPNTSGPPSRNMLLRSASALERKLSFSQSESNMANEFWRQSRRKVIADQRTASSSPEHLSFRARTKSMLSGDKNLARDFTGDVATSSCKSVGGAKMETKRIRRRSISITPEIGDDIVRAVRAMNEALKQNRLSKEQGDDDSSPNSPNDRTESSHLQKNVSGFHLDAHDQVSGGRSTLSREPLDPQKAISLPSSPQNYRSQYEQSGSSHRNISHIWDKVLGSPMFQNKPLLPYEEWNIDFSELTVGTRVGIGFFGEVFRGIWNGTDVAIKVFLEQDLTAENMEDFCNEISILSRLRHPNVILFLGACTKPPRLSLITEYMEMGSLYYLLHLSGQKKRLSWRRKLKMLRDICRGLMCIHRMGIVHRDIKSANCLLSNKWTVKICDFGLSRIMTGTTMRDTVSAGTPEWMAPELIRNEPFSEKCDIFSLGVIMWELCTLTRPWEGVPPERVVYAIAYEGARLEIPEGPLGKLIADCWTEPEQRPSCNEILSRLLDCEYSLC

>AtEDR1-12

MGAKCCRGHRGSVVESNGSVILSLADLEVQATDLREMTVVEARDAAGPSEPRPPSPTLRPSEVEETSEPVCQGSLVETSNTDDAGPSEPNPPSPTLRPSEVEKIYVPVCQGSLAETSNLDQDGVSSYEASNIFWSTGSLSDPIPSGFYTVIPVERLMHFKSIPTLEEINALGEDRLKADAIFVDLKNDIQLVLIKEFVIKLVTGLDSDKVIKKIAGLVANIYKRKTLQSPARTLQYFDVQGFTLLGQIKHGSCRARAILFKVLADAVGLDSKLVMGFPTDLRFSASIDSYNHISAVVELNNVEMLVDLKRCPGQLKPFSPKAVYMAHISMAWQPDFVDNNPCASPLEPNSPMERSGPPSALQSGLSRSLGEPNIATEVLRRKVIKEPPPADFSGNSGAAESESKRTNGRCMNTPDLNNDIARATMMQSDLLKERGVDDSSPYSPDEKNVSGFQLDSHDLVSGECSTVYPRKSISLPSSPRSYQIQLSERSEHSPQEISHIWNEVLESPMFQNKPLLPFEEWNIDFSKLKVGASVGSGTSGVVCRGVWNKTEVAIKIFLGQQLTAENMKVFCNEISILSRLQHPNVILLLGACTKPPQLSLVTEYMSTGSLYDVIRTRKKELSWQRKLKILAEICRGLMYIHKMGIVHRDLTSANCLLNKSIVKICDFGLSRRMTGTAVKDTEAAGTPEWMAPELIRNEPVTEKSDIFSFGVIMWELSTLSKPWKGVPKEKVIHIVANEGARLKIPEGPLQKLIADCWSEPEQRPSCKEILHRLKTCEIPIC