

113r_PKCa 1jlu_AMPK 39975017.y MDLPPASPAFALAPTPDSTT RAPSGLGVQNGVKEPTNSLAPPVSSLRADSAGMRRSLSEDIREEREELREAAEQTLNVMIDLNLDRIRWSPSWVDVIGTLPEPSVQG - VAIIDLIVSNDNTKTFIFAEVESMOKDDKSQFIRFVNLGLPLSRLIASLDAAEKGDAOPERETLEEAQGIMVYDTSSGGESHTTMWVPR
32414369.y MEEQS KAPSL LAPPAPVSSLRT - GKMERSVSENIREEREDLREAAEQTLNVMIDLNLDRITRWSVPSWVDVIGTQPQEVVTG TAITDLIVSNDNSKSFIFAVKVGPLSRLPLEQTEP - TIIDVEAQGIMVYDGASKGDSHTMWNP
1muo_AUR1 14318486.y MFNRNTAGGSQAMKECLGINKLSPISNSNPPSLTSNNEYKLQATETEKNCMLLELDGKVRYSGPQWNTITGADDGSGSPTYIADLLGSDQDKGVFQKAATDMILMNDDTCIITFKIAADYEGSAGCDD - ESTITTEEARGLILLRDGHQLPSHTMWVNP
19075810.y MKHIIKNEREFVFLLEDQAQHSQAEELLSSKDENLQPSIPLSPVAFELDFSGNFQFISDNSELLDIPKDIIG HSVAEVLGTDGYNAFRMRAVNCLLKDDSHSYHVRPQHSINANHANQNYTAKGDPSEDEKITPKFDAIGILIRHPGSAIPAHMTMVNP
19112278.y MTNPQLRKILSHEVLLKIEMSKNGIVEYANPAFFELIGYEGDLFQCS - FYEYLQSDDEHLMKKATDNLFRLKSIISVAHVFALRCNPIRSPPNYIQQAKAPFEKGKTYIRMLFRG - ILVDSLGYKDTRVLWAGKY
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32414369.y WVAIREKIKIDLPATIVESLGSAEVLAISYLTLQALETGLDD - PNHHPPAPVLCRICKERQIIPWWFEKHTDFCLQEHRRAEMDVQMTQESLIDHRHAIVKVLDALAEARSRSLIGDPANPLAIEYKGMPICGPTSTTSSGTTSSPS - SNSGRDRSSGFGHRSARSAIRRPQARIVE
1muo_AUR1 14318486.y RTNDWSDFYANEDAQDDMVIQLSDNCDDIDIQLPEEFAKTLGFCAKIVFQYKLKRIRLEMIID - EFNLPPLPKMELCRVCENFVPUVWLETHSQSCVCEHRTESLIQLLHDNLEQQAIALNFTKDSEYKGSQIQVRSNNFLQVLDLSRELQDAIDINPSEMVDLYHLSLSTFPQDNGNNNNNNNNNNNNNNALLDQFP
19075810.y ATNLSLGSVSPSLVTKLVDLIGFCAKSLLDKYLCDLRTSYKHNSLDALPLTPEFCQCICERELQSQFRSTLIEQEGMOKDSSLVYKNEELIVDADYFTDENKPTLSCS - F
19112278.y LYPQRSVINEMDIFLFTNLIGQAFILHDHLGIKIVNYIH VPPPSGKLSLCELDNLPPEWYFVEVHSDFCLVNDLVRVFAVQQLINCKKLEIEDIVNKLTGNSNHMVEFTFLSLPVITVFNCNNKRKOR
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32414369.y LLLDLCDTAEIESTPAIKETT-QNPABEFTQSPQSEGRISQWMQNETPGTNLEQEQLALLCTDEAVAKAKVEAVFRRIRILEYAERIIEFAVIVQECIDEAEMRRAKIAAGRLSDSTEEEEDFQTEDEEATSAQEEGIFFGSFDFAPSTLALALEKAHISERPSSRLSISIKSTRSSPKECPTPR
1muo_AUR1 14318486.y IQKDTVSLSYFQFSRPTNINQNTISWQSRRFLDDQ-PGALIINDLDRARKVDAVLRLDNAMTYSLKKIKNVNNYYVQLIREQDEINQHAILTHPMLRNLSSIFHSPLEQHOCASPEAPSQSKLLEPIPPVFSVSEIETPTDIRHPSPLPRESCTNVMLKTPRKLDSNG
19075810.y LSQVMYLYEVAIDITIPPVKLIVNPKDVKDLSLRVQPSRSEKAETELDNYNPSLENCSSAVIALWEDEIKTAVDPTKTGVLRLRNAAIYSEFRLHVVQIDVVSILVTHSSTSLGHLESKLAPSITQHDLPSRQDSDRLNDLRSRSSYSHLHSV
19112278.y FRIRSWSRSSLNLFVKELDKSIKNFAYLEHRTFLTISNSAAKDMKREIYEKSLVNWEYDFLVPKSKIQDYFYDVHSSLLKN - LSSKQKLCNHLIMYQATFNEVKNLFQTYSLNMLSIEMENIEGSLYFGNAQLSNLICVNQYLSQRPVFFNRLLALGNVNENNS
1omw_GPRK2 - MADLEAVLADVSYLMAMEKSKATPAARASKKILLPEPSIRSVMKQYLEDRGEVTFEKIFSQSKLGYLLFRDFCLKHLEEAKPLVFEYEDKYYKEKLETEERLVCSCREIFDTYIMKELLACS

610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800
113r_PKCa 1jlu_AMPK 39975017.y - GNAAAAKKXEQESVKE
32414369.y - GNAAAAKKGEQESVKE
1muo_AUR1 14318486.y SHRGTLSISGHTRESRRGSLLFESDPGDSDG-SMRSSSVTSRQPPRT - ESPISEFGDLRKQASSRQHRRSLILPQAVSPRRQESPSSRGTQFQSPSLRILHKPGRGLAPFSDALMSPPESSPMGLPSEFTSPSLSHHHHHRRQSSAAMSANGEHGR
19075810.y LSQVMYLYEVAIDITIPPVKLIVNPKDVKDLSLRVQPSRSEKAETELDNYNPSLENCSSAVIALWEDEIKTAVDPTKTGVLRLRNAAIYSEFRLHVVQIDVVSILVTHSSTSLGHLESKLAPSITQHDLPSRQDSDRLNDLRSRSSYSHLHSV
19112278.y LFSDAYIINADIIINPSIESTIISDRDNTINSRGSSMKQYIGEATDSRTSNSERPSSSSRLGIRSRSTIPIRKIEYESHVDDRINEMLSRKDSLQPOPSVDTITSTQATTGKTKINSNNSTSVPFLKMTSISITPRGSPSFQNLASHSMQQTNSFKLHDKSPISFITSKDFLITPEQPHENIARTDSINNA
1omw_GPRK2 - TYDIDQKRTTERISTIKHHKXYFEIGERLYTEKDLIVSKTFKTRIDYFKAvgKGSIEEDLDLVRILKNRQKFVNKFYASIV
- HPPFSKSAIEHVGQHGLVKKQVPPDFQFYIEETCQNLRGDVFQK

810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000
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32414369.y PPPSPRLSA - ANPPPLARAVPSSIKDPEEVKPKGCAFQVSYLISKKKTCGEYFAIKVKKDAMVAKNQVNVKAERIMMMWQ - GESEFWAKLYTFSSKDLYLVMYEYLNGDCASLISKVQGLCPEDWWKYLGEVVLGVEHLHSGVYHRDLMDNLIDQKHLKLTFBCLSRMLGLIGRQKRALNNSGTTDPAFD
1muo_AUR1 14318486.y PPPSPRLSA - VVGATQAKAVWPSSKDKPEIIPKPKSKCAFQVSYLISKKKTCGEYFAIKVKKDAMVAKNQVNVKAERIMMMWQ - GESDFWAKLYTFSSKDLYLVMYEYLNGDCASLISKVQGLCPEDWWKYLGEVVLGVEHLHSGVYHRDLMDNLIDQKHLKLTFBCLSRMLGLVGRQKRALNNNG-ADAAPD
19075810.y NNPEELLAS - KQKNEESKTRKQWALPSSIKDPEEVKPKGCAFQVSYLISKKKTCGEYFAIKVKKDAMVAKNQVNVKAERIMMMWQ - RHP - NDRLYGFWDADLQKHLKLTFBCLSRMLGLVGRQKRALNNNG-ADAAPD
19112278.y LRLPSPSR - IHTIVPNSAPHPSTNDWKLKPKPSKCAFQVSYLIAKRTGCVFAIKVKKDAMVAKNQVNVKAERIMMMWQ - GESPFWAKLYTFQSKDLYLVMYEYLNGDCGSSULKMGVLDLWDWRTYIAFVVLQGLDHLHORGJLHIDRDLGENLIDQKHLKLTFBCLSRMLGLVGRQKRALNNNG-ADAAPD
1omw_GPRK2 - FCQWKVBLNHLITMNDSEVPRIGRGRGEVYECRKAPDCKMAYMKCDKDKRKKMKGOTELAIRMLSLVSTGDCPFTVCMYFHTPDLSLIDDMNGDLYHLSQHGVFTSADRFYIAEHLGCEMHNNRFTYVYRDLPELSENVEKKVYKLTKR
- PIESDKFT

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113r_PKCa 1jlu_AMPK 39975017.y LLKQGPF - ARASIAIASRSTSLLQAPSHSPGNTPHTNPSES - HLAQPSYFSLGSSKRSRSGHRSDSGGSEGLANMISNFSLHDATAVPPQAVQSPPLADGSGESEGSFDPGLSLHHTIGAHGSVSEAGKGTPP - SNMPPPNWALFDPEIDNRRVFPQGPDPYLAETEIK
32414369.y LLKQGPF - VRSSIAIASRSTSLLDVRHARPSPLSTPQMTSPDYGAGLQPSYFNLGVLSQEPRLRCAKNSDGGSEALSHMLPNLSLNDLTS - VPPQAIQSP - GERSEADEGTTDFVFLSHTTQS - NV DANRQTPPQQHMPPPNDFDIDTNRVFPQGPDPYLAETEIK
1muo_AUR1 14318486.y LPIDNPANNFTMNNNNNSHSQLSTPDSFTSDHQYNRSSKKSLGQQYEHSEYSSSTSNSHMSMTPSTNTVVPSYYRGKDRSHGSNIDLPASLRRSESQLSFSLLDISRSSTPPLANPTNSANNIMRRKSLTENKSFSNDLSSDAIAATN - TNINSNNNISLSPAPSDLALYFDDSKKFKGPDPYLAETEIK
19075810.y IPVLDLDRDSSAISDLSLSTASSVLEAQSLITPERKPSLNEKLLSLGTSIRLAGQSFYENYAEADSPATNTPTQSVDNFRSSTDPSVQPFENPDSKRPICGPDPYLAETEIK
19112278.y MSFEQHGNHNYIEOLQKPFKHFVYRVRNRYGNQIDEKEASEPQNSDYANDSVHLLDFDINNMDETAIHMMLNQLEKKERNIFKIKKDSGPYNMPEAEM
1omw_GPRK2 - LAACDFSKKPHASVCPHGKYMADPVL

1210 1220 1230 1240 1250 1260 1270 1280 1290 1300 1310 1320 1330 1340 1350 1360 1370 1380 1390
1400 113r_PKCa 1jlu_AMPK 39975017.y SKGYN-KAVDWAQVQVLIYEMAZCYPPFEGDQPIQYEVIVGSKYRFP - SHFSSDIDKDLRLLQDVLKRGNLKN - GVNDIKNERKWFATTDWIAHYOR - KVEAPFPLPKFGPQDTSNFPDDYBEEEEIRVX
32414369.y QEPDQ-EPSPDW-SVGCIMCFPFLCIPPFPEAPEEVENLARRQPEEME - DEVAEAKDILNLLCMLCNPFRERGKNDKDEKPYSQGEEFSPWECMNL - DILLODQAQFVQPLENPEDTEYFDARGATLQSFADMEQDTPSPS - ASADYRHDALSRVRS-QFNS - MKRGLMLPHIPPVHVRDLKGR
1muo_AUR1 14318486.y CRMID-BKWDLMSLQVLCYFLYKCPFKPQDANTYIYKLSRVEFTEP - DFVREGARDLISRLKLNPKNSPMLR - EVELBEPWIXAN - SSXPQKNGINECASKOS
19075810.y QKGPDKNCVQDQVWVSLGCVFFFELCYPPFNAETPFDQVFLNLLARRNWPAAEVF - TAESVSDAIDLLRLLCMLPANRIGANG - VEELKAQFPEKSVNDFIILEEDPFPVFKFSPSEPDFTVYFDSRCLKGDFSEYYNQPTVTEAQKLEERFQASSIPQHVGNSR - KGR
19112278.y G-VDTQGMWVAMCQVCFMELGTRPFANTVKAWEHRNGMCKRVK - ESCSCKEVLIDTLMEDCNKRDGSNG - YOEEIKHGFPRFLKWDNLNSGPVFPQTN - VEDLTYKEFNISSGDNINNNCOTS
1omw_GPRK2 KGVAWYDSSAEDPSLGCMLFLKJLURQHSEFRHK - KDKHEDLRTMPEALVEP - PPLIPRGEVNAADPAGISDFDPEDTKG

