

200

AK106486.q ..MAKATTGICLVDVILFSFLVAPRAFAAAAAGVDTERGRNIDGETIVSADG-TFTLGFSPGVSAKRYLEIWFITVSPD-AVCWVANRDSFLNVTSGLAISGAS-ILVLLDGSGGGHVAWSNSPYY-AASVEARLSNSGNLVVR-DASGTTTWDLSFDHPSNTLPGMKMKNLTGAEWL
83525042.q ..MRSTROSSNLLRLVAFVLLSGQTAAAGAVAKDKGONLIDGOTIVSGGGSYTLCFFSPGKSVTKRYLEIWFITVSPD-TVYVWANRDRDLGKSGVLLNDGSQLVLLDG-SGRRTTSGNLLVVR-NGGGGDAYLWPSFDPSDITLPGMKMKSLSGGEWL
83340012.q ..MSSMLLILSCLMLLSNSCRTTGAELGTLKGKRNIIDGERIVSAGG-SPTLGFSPASSSSTSRSRVLWVSDD-VVCCVNAWDRDLTDSGLVLTDAAG-SLMLLDG-SGHVWVSSNTTG-GGASMAACLESQNLVSRDNGGAGAVVWMDPCTDITLPGMKIGKNLTGAEWL
71230014.q MSTLSHQHHHLVVLQLLILPFLHLVVPGTAAARKFEDVRAGRNVSDGDVIVSPGG-SFTLGFSPANRRRYLEIWFITVSPDAAVHWVANRDRHALNDTSGALNDTDAAG-VLLLKD-SGKVVWSATALPSATTAARLLDGSNLVVR-QGQSGTALSFDFDPTNTLPGMKIGKNLTGAEWL
2phk_PhK
lras_TGFbR
lir3_IRK
15233404.p -MASSLFFFIFLTSLLSSYPLSVFSATVVEDEANLSPPIDEFNTTISNNCLRDPMRLYCNNISSSPMDIVEIFRSTIVASLQESKNPNCVESFPFIRIHC-RPKTAADYLFSDFFKYCPDV

400

AK106486.q ..TSMWSPDPSGPAGVRRVLDTS-GIPDWVLWQDG-VERYRSPGWNRNFESNPPEATYTINLITRSGHISGY-SVKPCAPTRSVWLDTGWVKLVREATSRTW-TYFQPRDVCDAVAKCAFSLCDANAPSTSFCCLRGFSPTSPA-WMKDASGCCRNVLRCG-NTTTDFGALVGVK
83525042.q ..TAWMSADDPSGPGRVRLTDGLPELVLWLRGGGGGATKVYRTGPWNGRGPVPEASNYSDKFLOVTSARDTGYGSGVATAGPDRVUVVWVNSARAWQRFQPRDPDCSYARCP-CDADAAATSFCCCVGDFTAASPAMA-LRNTSGCRGVALDCAGGGGSRTTDFKVRGVK
83340012.q SSWRSSCPSPGNYRYRTDTK-CPVPEVNLWDDGD-EVYRTPWNLWFSGIPMEYTS-DMFSYQLTSGEHTGTY-SANACAPPSRLVTVGVEVRLVWEPSSRAWQNFQPRDLCDDYKCAFC-CDAGAASTSFCSCVEGFTAPSPFWKKMRDTSACRREDAALGCA-TDGFITVGVK
71230014.q LSWRSPADPSGPDSYRYVTDGEALPENVVLDCNG-TEVYRTGWNGRGPVPEASFA-DMFSFQLTVPSGEGVTVG-YAKACAPPSRVVTFDGWVRLVWDAATRAWKFFQAPGDSCSYAKC-CDSNAGATSCRCVKGFSPAWS-MREYSGCCR'DVALDCG-TDGFAVIRGVK
2phk_PhK
lras_TGFbR
lir3_IRK
15233404.p VDIELVNNSLTNEPP-TNVLSCAQIRTLDSLWQFSGFVPPVQDLGGLNITLHNISNRFSENKISSEFFKFRNASSFIQSGV-INVKRYKMKVILVLLLIVEPMIVILLCPCE-WLCLVRPDY

600

AK106486.q UPDTINASVDTGITYECCRCAVANSCLAYAAADRGCGG-SGCVIWTGGIVDFRYVDQCGQLFLRLAESLDEGRSRKFMLWKTVIAPISATII-MLVLLLAIWCRKHKISEGIPH-PATTIVPSDOKVKAATGNS-SHVIGQGGFIVYKGQLPDRGMVAVKR-LHQST
83525042.q UPDTINASVDMGATAECCRCAVNGSCVAYAADNGG-CVINTDIVDRLYVDRQDLYLIRLAKSEFD-VIPDN-PSMGAVSVNLTIKSISDENSENCLIEGGFSTVYKGVSQDRGMVAVKR-LKQSA
83340012.q UPDHNATVDKRVIWVBCWRCHANSVCVAYAPADIGGGGGGAGSSGCCIADDLVDLRLYVDGGQDLYLVRALKSELKGKDGIRQRPPAAVIGASIASVGVLILLLVLYVRROR-PRVSDDAVGVPALAAPSNTLSEREATNGSENIIGRGGFIVYQKLPSGRKVAVK-ITQSL
71230014.q UPDTINASVDMGVAECCRCAVNGSCVAYAADNGG-CIMNTKPFVDRLRFIDNGQDLYQRLAKSEIG-RPPHWKLPPVITVAVVLLVIVVFVLUWAVKR-REGGIRRS-VSPGITS-DRYLLONATENFGKELIGEONYGRVYKGILPAESTITGSRQENEIVAVKL
2phk_PhK FYENYEKEILIGRGRVSSVVRCHHK-TCKEYAVKHLIDVIG-KRGEEVAKVKEISREERSWR
lras_TGFbR TSGCGLPLLLVQRTIAKTHVQESIGKGRFGEVWRG
lir3_IRK VFSVFPDEPVSEKETLRLRECGQGFCMVYECNAR-DIIKGEABTRAVGTVNESASLER
15233404.p UPDTCRRNNKFTFAM-BAAATDEFSDHIVSMNTIVDLYK-TRLDGTETR-EVVKPENVSSEKRE

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AK106486.q LTKKKKDFIREVEVMRDFRHNLRLAYCSESE-RVLIYDMNSNRSIDLYIFPG-DSGLRIMNVRKRCIIHIGIANGAYIHEGSG-ECVIIHDLKIPNVLIDDFR-KIADFCIAKLFATDQP-EPSNLITVVSQYSPVYAVRGET-ICCDVYSFQVLLLEQILSCQRNGPMY
83525042.q LTNKKKDFAREVVMAGL-HGSLLRLAYCSESE-RILVYBMYKNSLDNHFPG-PLPRRANGEWPRFIDLIISAIKCYGAYIHEGPD-GSVIIHDLKILSNILLDDFLK-KIADFCIAKLFVADQ-SGTDIVVSPQYSPVYAVRDEMT-ICCDVYSFQVLLLEQILSCQRNGPMY
83340012.q VTDKRKEDFIREVMMNTFHNLVYIPEKCEGEGEMLIVYIEMENYFGE-DRRLRASINVRDIIHIGIANGAYIHEGSG-NSELRAMDPDPIRKIVDGIVECYRIVHVGSN-TPIIIHDLKPSNILLGRDWTKISDFC-TDFTVLSAGYIAPYAAQGNDT-ICCDVYSFQVLLLEQILSCQRNGPMY
71230014.q LQPSGTGTVEELEMNAHVNVLVRLIAFCSDNDRHTGEKFRALVYEMENYFGE-DRRLRASINVRDIIHIGIANGAYIHEGSG-NSELRAMDPDPIRKIVDGIVECYRIVHVGSN-TPIIIHDLKPSNILLGRDWTKISDFC-TDFTVLSAGYIAPYAAQGNDT-ICCDVYSFQVLLLEQILSCQRNGPMY
2phk_PhK -LKEVDTLREKVGKHNIQFLDTYETN-FFFLVPEDLKKGELDFYIYE-NVTVLSRKETRKIMALLLEVCAHK-LNIVHDLRIPENILLDDDNNKLNIDFC-SCOLDPGE-KLREVCGPSYLAPEEIECSMDNDNPYGXGKEDVM-SICVIMYILLASPEFWIR
lras_TGFbR -EAEHYIQTVMPEHNLQFLHADKDN- TWTQLWLVDIETPSLFDYVNR-YTIVVEMGIMLQDQHMHMEIVGTQKPA-PRHDLKSTCILDE-PAVRHDSATDTIDIAPNHRVKRYMAP-GLVDDSINMKHFSFKRADYIA-GLVFWESIARRCSIGE-IH
lir3_IRK -IEFLNEASVNMKGFCVHVRLLGVVKCGP-TIVVVEIMAHGDLKSYRSRPEAENNGPR-PPTLEEMIOMAAEITAGMAYLNA-KKPVHDLAARNQMVVAHD-ETKIPDFCMTRIDIXETDX-XRKGKGGLLPVRMAPBSLKDGVET-TSSDM-SFQVLLWELTSIAECPYQG
15233404.p PKEVCEMVKPHKNLVRLGVCNCSRMR-ALVNEWIOGENVETWSS-MAISWRRRLRVLVIGVWEGCICLSDCWP-EITEIDLTSVLLVSSD

810

AK106486.q SLL-CHAEELVNEQQGRVMSLLDAMIGPLSVSGPDHTEMEDELARCVRIGLICVODAEEPRPAMSIVAM-TSKSSRDRKRPVGHGRS-RPPLRESELLGATIDDDLT
83525042.q TLLPQA-RLWEQGNLMDLLDPAMAR-APDDAELLYDLERCIHIGLICDODMADDRPTMSEIVAM-TSRTSOLBQKRPPTLDSRAA-MRPLRQSDVQGST-TTDLT
83340012.q TFLRETEESWKRQHIEDILDGLIKP-EDDLIIGLDRCIQIGLLVQOQSPDDEPTIMNGVWSMLKYSSQIHAM-KNPMINSRCEPSVSQVVSDETEASHDRPGPSLN
71230014.q QLL-HSDF-SKAEPALITKHNGSYKURKGQOA
2phk_PhK KQMLMLRMIMSGN-YDFGSEWDYSDTIVDLYSRFLVYSPKRYTAEEBALAHPPFFQQY
lras_TGFbR EDYQLPYDLPSPDPS-VEEMRKVVCEQKLRNIPNRWQSEALRVMKAR-RECWYANGAARLTALRIKKTLSQLSQQEGIKM-
lir3_IRK LSNEQVLFKFVMDG-CYLDOPDNCPERVTDARMCWQFPKMRPFILEIVNLKDDLHPSFPEVSSFFHSEENK-
15233404.p EDSERRILEYIRVHPDNE