

OsEXPA5 WSSAHATFYGGGD--ASGTMGGACGYGNLYS-QGYGTNTAALSTALFNNGLSCGACFEVRC DAGGGGSHSCLPG--SVVVTATNFCPPNNALPSD
OsEXPA11 WSSGSATFYGGSD--ASGTMGGACGYGNLYS-AGYGTSTAALSTALFNNGQSCGACFEVRC--GGGG--SCLAG--TVAVTATNLCPPNYALAGD
AtEXPA15 WVNAHATFYGGSD--ASGTMGGACGYGNLYS-QGYGTNTAALSTALFNNGLSCGACFEIKCQ-SDGA--WCLPG--AIIVTATNFCPPNNALPNN
AtEXPA14 WVNARATFYGGAD--ASGTMGGACGYGNLYS-QGYGTNTAALSTALFNNGQSCGACFQIKCV-DDPK--WCIGG--TITVTGTNFCPPNFAQANN
OsEXPA4 WQSAHATFYGGGD--ASGTMGGACGYGNLYS-QGYGTNTAALSTALFNDGAACGSCYELRCD-NAGS--SCLPG--SITVTATNFCPPNYGLPSD
TC68819 WESAHATFYGGSD--ASGTMGGACGYGNLYS-QGYGTNTAALSTALFNDGLSCGACYEMQCN-DDPQ--WCLPG--TVTVTATNFCPPNNALPND
AtEXPA8 WQGGHATFYGGED--ASGTMGGACGYGNLYG-QGYGTNTAALSTALFNNGLTCGACYEMKCN-DDPR--WCLGS--TITVTATNFCPPNPGLSND
AAK29736 WRKAHATFYGGAD--ASGTMGGACGYGNLYS-TGYGVDSTALSTALFNNGAKCGACFAIQCYRSQ----YCVPGSPVITVTATNFCPPNHK-GDG
TC73847 WNEAHATFYGGSD--ASGTMGGACGYGNLYS-QGYGVQSAALSTALFNNSGLSCGACFEIKCV-NDP--EWCHPGNPSILVTATNFCPPNYALPND
OsEXPA7 WQSAHATFYGGSD--ASGTMGGACGYGNLYS-QGYGVNNAALSTALFNNSGQSCGACFEIKCV-NQPGWEWCHPGSPSILITATNFCPPNYALPSD
AtEXPA4 WQNAHATFYGGSD--ASGTMGGACGYGNLYS-QGYGTNTAALSTALFNNGMSCGACFELKCA-NDP--QWCHSGSPSILITATNFCPPNLAQPSD
AtEXPA17 WLQAHATFYGGSD--ASGTMGGACGYGNLYT-DGYKTNTAALSTALFNDGKSCGGCYQILCDATKVP-QWCLKG-KSITITATNFCPPNFAQASD
OsEXPA33 WTPATATFYGGSD--GAGTMGGACGYGNLYN-AGYGLNNAALSSALFNDGAMCGACYTIACTDSQS--TWCKPG-TSITITATNLCPPNYAKKSD
TC60282 WTSGHATFYGGSD--ASGTMGGACGYGDLYS-TGYGTKTAALSTALFNNGATCGACFQIQCDISKDP-QWCLPGPKSITITATNFCPPNYALPSN
AtEXPA11 LTNGHATFYGGSD--ASGTMGGACGYGDLYS-AGYGTMTAALSTALFNDGASCGECYRITCDHAADS-RWCLKG-ASVITATNFCPPNFALPNN
OsEXPA12 ALSGTATFYGGSD--ASGTMGGACGYGNLYS-TGYGTNTAALSSALFNDGAACGECYQITCDQS-NS-KWCKAG-TSVTITATNLCPPDYSKPSN
TC61381 WNSAHATLYGGGD--AAGIMAGACGYGNLYS-QGYGTNTAALSAILFDGSAACGACFEIKCVDDSQ---WCLPGSPSVVITATNFCPPNYALSND
TC66980 WNYAHATFYGGAD--AAGTMAGACGYGNLYS-QGYGTNTAALSTALFNNSGASCGACFEIKCVDDPQ---WCLPGSPSIVITATNFCPPNYALAND
OsEXPA32 WKQAHATFYGGRD--GSGTLDGACGYKDTSK-EGYGVQTVAVSTPLFGAGAGCGACYEVKCVDSPDG---CKVGAAPLVVATNLCPPNPGQSDND
AtEXPA22 WYDARATFYGDIH----GGDTQPCGYGNLFR-QGYGLATAALSTALFNNGYTCGACYEIMCTRDPQ---WCLPG--SVKITATNFCPPANSKTTD
AtEXPA20 WKIATATLSRDRDGS SVATGGACGYGDLRQ--SSFAGYSAGLSGKLFNNGSSCGACLEVRVNHIR---WCLQGSPPSVVVTATDFCPPNSGLSSD
OsEXPA16 WRMG SATYIKESLGHPLNDGGGACGYGDLDI--FRYGRYTAGVSGALFGRGSACGGCYEVRCVNHVL---WCLRGSPTVVVATDFCAPNLGLSDD
TC66979 WKYAFATFYSESD--ALGTMAGACFGDLYR-QGYGVNTAALSSVLYNGGQACGACFELRCVEDPL---YCHPGT-SIVVTATNFCPPNYGLPGD
AtEXPA13 WRPARATYYAATN--PRDAVGGACGYGDLVK-SGYGMATVGLSETLFRGQICGACFELRCVDDLRL---WCIPGT-SIILTATNFCAPNYGFDPD
OsEXPA10 WRSKASYAAD---PEDAIGGACFGDLGK-HGYGMATVGLSTALFERGAACGGCYEVKCVDDLK---YCLPGT-SIVVTATNFCAPNFGLPAD
AtEXPA12 WIRAHATYYGVND--SPASLGGACGYDNPYH-AGFGAHTAALSGELFRSGESCGCYQVRCDFPADP-KWCLRG-AAVTVTATNFCPTN-----N
AtEXPA7 WRYAHATFYGDET--GGETMGGACGYGNLFN-SGYGLSTAALSTTLFNDGYGCGCFQITCSKSPH----CYSGK-STVVTATNLCPPNWDQSN
OsEXPA30 WTPAHATFYGDET--ASET MGGACGYGNLYA-SGYGTDTAALSTTLFKDGYGCGTCYQMR CVGTAS----CYRGS PAITVTATNLCPPNWAEDPD
AtEXPB3 WLP AVATWY GSPN--GDGSDGGACGYGTLVDVKPLHARV GAVNPILFKNGEGCGACYKVRCLDKSI----CSRR--AVTVIITDECP-----
OsEXPB16 WHPATATWYGSAD--GDGSDGGACGYGTLVDVVPKTRV GAVSPVLFKGGEGCGACYKVRCLDASI----CSRR--AVTVIVTDECP-----
TC76654 WQPATATWYGSPD--GDGSDGGACGYGSLVKQSPFQSKIAAGSPALFKGGTGCGACYQVKCTENGL----CSQT--AVTVVITDECP-----
AAL71871 WLGGHATWYGD PY--GEGSSGGACGYTQLTG-TPIGSKIAAGNAPIFQEGKGCQCYEVKCNYP S-----CSPQ--GTRIVITDLC P-----
AtEXPB2 WSIAGSTWYGNPT--GYGSDGGACGYGNAVAQPPFSKMVSAGGPSLFFKSGKGC GACYQVKCTSKSA----CSKN--PVTVVITDECP-----
OsEXPB15 WSNGGATWYGAAN--GAGSDGGACGYQGA VFAFPSSMIAAGSPS IYKSGLGC GACYQVKCTGNSA----CSGN--PVTVVLTDECP-----
AtEXLA1 LHRSKAAYFSSA----SALSSGACAYGSMAT-SFFAGHIAAAI P S IYKDGAGCGACFQVRCKNPKL----CSTK--GTIVMITDLNK-----
OsEXLA2 VRRSKAGFRDSS----IALNAGSCGYGSLAA-SFNGGHLAAAS PALFRGGVGC GACFQVRCKDGKL----CSTA--GAKVVVTD EAR-----
TC73949 VHQSKLAYYAYP----GAVDVGACGYGSFAE-TLYGGNVGSSRDLYRNGVACGACYQMRCTDSKL----CTKS--GTTIVVTD FTE-----
AtEXLB1 FVNSRATYYGSPD--CKANPRGHCGYGEFGR-DINNGEVSGVSWRLWNNGTGCGACYQVRCKIPPH----CSEE--GVYVVATDSGE-----
TC69976 -VSSRASYYGSPD--SLGNDRGACGYGSFGR-NLNGGDVA-CAAQLYRDGLGCGACYQVIC TNQDL----CTEG--GVKIVITDMGQ-----
OsEXLB1 FTVSRAAYYPNSD--IKGTENGACEYGAFGA-TLNNGDVS-ASASLYRDGVGCGACYQVRCTNPYY----CSPN--GVTIVITDSGA-----

OsEXPA5 --DGGWCNPPRAHFDMSPVFQRIALF-----KAGIVPVSYRRVACQKKG--GIRFTINGHS---YFNLVLVTNVGGAGDVHAVAVK-SER
OsEXPA11 --AGGWCNPPRPHFDMAEPAFTRIAQA-----RAGVVPVQYRRVACAKQG--GIRFTITGHS---YFNLVLVTNVGGAGDVTAVSVK-GSR
AtEXPA15 --AGGWCNPPLLHHFDLSQPVFQRIAQY-----KAGVVPVSYRRVPCMRRG--GIRFTINGHS---YFNLVLVTNVGGAGDVHSHAVK-GSR
AtEXPA14 --AGGWCNPPQHFFDLAQPIFLRIAQY-----KAGVVPVQYRRVACRRKG--GIRFTINGHS---YFNLVLITNVAGAGDVISVSIK-GTN
OsEXPA4 --DGGWCNPPRPHFDMAEPAFLHIAQY-----RAGIVPVSFRRVPCVKKG--GVRFTVNGHS---YFNLVLVTNVAGAGDVRSVSIK-GSR
TC68819 --NGGWCNPPQLHFDMAEPAFLKIAKY-----RGGIVPILYTRVPCLRKG--GIRFTVNGHS---YFNLVLITNVGGAGDVHAVSIK-GSR
AtEXPA8 --NGGWCNPPQLHFDLAEPAFLQIAQY-----RAGIVPVSFRRVPCMKKG--GIRFTINGHS---YFNLVLISNVGGAGDVHAVSIK-GSK
AAK29736 --TPGWCNPPMRHFDLAQPSFTKIAKY-----RAGIVPVLFRRVPCCKKG--GVRFTINGNK---YFNLVLVHNVGGKGDVHAVDIK-GSN
TC73847 --NGGWCNPPRPHFDLSMPIFLKMAEY-----RAGIVPVLFRRVPCVKQG--GVRFTINGFK---YFNLVLITNVAGAGDLVRVSVK-GSQ
OsEXPA7 --NGGWCNPPRPHFDLAMPFLHIAEY-----RAGIVPVSYRRVPCRKKG--GVRFTINGFR---YFNLVLITNVAGAGDIVRASVK-GTS
AtEXPA4 --NGGWCNPPREHFDLAMPVFLKIAQY-----RAGIVPVSYRRVPCRKRK--GIRFTINGHR---YFNLVLITNVAGAGDIVRASVK-GSR
AtEXPA17 --NGGWCNPPRPHFDMAQPAFLTIKY-----KAGIVPILYKKGVCRRSG--GMRFTINGRN---YFELVLI SNVAGGGEISKVWIK-GSK
OsEXPA33 --AGGWCNPPRKHFDMSPAWTSIAIY-----QAGIVPVNFKRVPCKQS?--GIRFTISGRD---YFELVTVFNVGGSGVVAQVSIK-GSK
TC60282 --DGGWCNPPMLMHFDMAQPAWEQIAIY-----SGGIVPVQFRRVPCTPVG--GVRFTINGRS---YFELVLLSNVGGAGDISAVSIK-GSN
AtEXPA11 --NGGWCNPPKHFDMQAQPAWEKIGIY-----RGGIVPVVFQRVSCYKKG--GVRFRINGRD---YFELVNIQNVGGAGSIKSVSIK-GSK
OsEXPA12 --DGGWCNPPRQHFDMAQPAWEQIGVY-----RGGIVPVNFQRVSCTRKG--GVRFTINGNS---YFELVLITNVGGPGSIKSVQIK-GTK
TC61381 --NGGWCNPPREHFDMAMPAFEQIAIW-----KAGIVPVQYRRVRCAKGG--GIRFTIHGNR---YFYLILITNVGGDGDVAEVMVK-GSN
TC66980 --DGGWCNPPREHFDMAMPAFEQIGIW-----KAGIVPIQYKRVACVKEG--GMRFTINGNY---YFYLILVTNVGGDGVVADVVKV-GSN
OsEXPA32 --NGGWCNPPREHFDLSMPAFLQIAQE-----KAGIVPISYRRVPCVVKG--GIRYITIGNP---YFNLVMVSNVGGAGDVAGLSVK-GNK
AtEXPA22 --L--WCNPPQKHFDLSLAMFLKIAKY-----KAGVVPVYRRVPCSKTG--GVKFETKGNP---YFLMVLINYNVGGAGDIKYMVKV-GNK
AtEXPA20 --YGGWCNPPKHEHLELSHAFTGIAET-----RAEMIPIQYRRVCKGRRG--GLRFSLSGSS---HFFQVLI SNVGLDGEVYGVKVK-GHT
OsEXPA16 --YGGWCNFPKEHFEMSEAAFLRVAKA-----KADIVPVQYRRVSCDRAG--GMRFTITGGA---SFLQVLI TNVAADGEVAAVKVK-GSR
TC66979 --DGGWCNPPRQHFFVLPVTAFEKIAMW-----KIGTMNVQYRRVRCAKVG--GMRFAINGKD---FFLTVLISNVAGDGAVSGVKVK-GSK
AtEXPA13 --GGHCNPPNKHFVLPPIEAFEKIAIW-----KAGNMPVQYRRINCRKEG--SMRFTVDGGG---IFISVLITNVAGSGDIAAVKIK-GSR
OsEXPA10 --AGGVCNPPNHHFLLPIQSFEKIALW-----KAGVMPIQYRRVNCLRKG--GVRFAVAGRS---FFLTVLISNVGGAGDVRSVKIK-GTE
AtEXPA12 --NNGWCNLP RHFFDMSSPAFFRIARRG-----NEGIVPVFYRRVGCRRG--GVRFTMRGQG---NFMVMVSNVGGGGSVRSVAVR-GSK
AtEXPA7 --AGGWCNPPRTHFDMAKPAFMKLAYW-----RAGIIPVAYRRVPCQRSG--GMRFQFQNS---YWLLIFVMNVGGAGDIKSMVAVK-GSR
OsEXPA30 RGGGGWCNPPRAHFDSLKP AFMRMADW-----RAGIVPVMYRRVPCARAG--GLRFALQGNP---YWLLAYVMNVAGAGDVGMVVKAGGG
AtEXPB3 --G--CSKT-STHFDLSGAVFGRLA IAGESGP--LRNRGLIPVIYRRTACKYRG--KNIAFHVNEGST--DFWLSLLVEFEDGEDIGSMHIRQAG--
OsEXPB16 --GGVCAFG-RTHFDLSGA AFARLAVAGHGQ--LQNRGEISVYRRTACKYGG--KNIAFHVNEGST--TFWLSLLVEFEDGDGDIGSMQLKQAN--
TC76654 --GGICSGSGKKHFDLSGTAFTDMASAGASN--LLNTGVVSVLFRRVPC EYPG--KNIAFNVNGGAS--DYWFAILLIEYEDGDGDLRAVYIKQAN--
AAL71871 --GGQYCS TDQPAFD FSGAAITAMALPGRDGE--LRNIGLYDIQYKRVPC EYPN--QNI AFKVDAGSS--KYWFSFTVKYLGPGDINTVEVKCGK--
AtEXPB2 --G--CVKE-SVHFDLSGTAFGAMAI SGQDSQ--LRNVGELQILYKKEVCNYIG--KTVTFQVDKGSN--ANSFAVLVAYVNGDGEIGRIELKQALD--
OsEXPB15 --GGPCLSE-PVHFDLSGTAFGAMANPGQADQ--LRAAGVLQIQYNRVPCNWGG--VKLTFVVDVGSN--PNYFAVLVKYENG DGLSGVELMQTGA--
AtEXLA1 -----S-NQTDLV LSSRAFRAMAKPIVGADKDLLKQIGVDIEYQRVPCDYGN--KNMNV RVEEASKKPNYLEIKLLYQGGQTEVVSIDIAQVGS--
OsEXLA2 -----STNRTDLVLSAAAYAAMARP--GMAAQLRTRRAVDVEYKRVPC EYAAGRNL SIRVEEKS RPPRELSIRFLYQGGQTDIVAVDVATVGS--
TC73949 -----S-SQTD FVVTRSTFSSMALP--DQGDQLLKAGIIDIEYKRVPCQYKG--QNMSVKVDKLSRYPNYLAVQFLYQGGQTDIVSVDVEQVGS--
AtEXLB1 -----G-DGTD FILSPKAYGRMARP--G-TENQLYSFGVVNVEYQRI PCRYAG--YNLVYK IHEKSYNPHYLA ILLVLYVGGVNDILAVEVWQEDC--
TC69976 -----G-DRTDFILSRHGYAKLGLS--ANASDQLVAMGVVDIQYKRVSCQYPG--QNL MFKIDESTNFPY YLAFIFWYQAGQKDILAVDVCETAT--
OsEXLB1 -----S-DGTD FILSQHAFTRMAQS--TDAGTALLTLGVVGI EYRRV SCTYPN--KNIVFKIT ESSNFPNYLEFEI WYQQGNQDI IAVQLCETVN--

OsEXPA5 SAAWQALSARNWGQNWQSA---ALLDQGALSFRVTT-GDGRS-----VVSNNVAPRGWSFGQTFS--GAQFN-----
OsEXPA11 SG-WQAMSHNNGANWQNG---ANLDGQPLSFRVTA-SDGRT-----VTSNDVAPSGWSFGQTFS--GGQF-----
AtEXPA15 TR-WQQMSRNWGQNWQSN---NLLNGQALSFKVTA-SDGRT-----VVSNNIAPASWSFGQTFT--GRQFR-----
AtEXPA14 TR-WQSMSRNWGQNWQSN---AKLDGQALSFKVTT-SDGRT-----VISNNATPRNWSFGQTYT--GKQFRAQR-----
OsEXPA4 TG-WQPMSRNWGQNWQSN---AFLDQQLSFSQVTA-SDGRT-----VTSNNVAHPGWQFGQTFE--GGQF-----
TC68819 SG-WQPMSRNWGQNWQSN---SYLNGQSLSFQVTT-SDGRT-----VVSNNVAPSNWQFGQTFE--GSQV-----
AtEXPA8 TQSWQAMSRNWGQNWQSN---SYMNDQSLSFQVTT-SDGRT-----LVSNDVAPSNWQFGQTYQ--GGQF-----
AAK29736 TE-WIPMKRNWGMNWQTD---AVMTGQALSFRVTT-SDGKT-----IVSMNATPSHWSFGQTFE--GGQFAMN-----
TC73847 TG-WIPLSRNWGQNWQCS---TVLVGQALSFRITG-SDRRT-----STSWNIVPPNWEFGQTFE--GKQFRV-----
OsEXPA7 TG-WMPMSRNWGQNWQSN---SVLVGQALSFRVTG-SDRRT-----STSWNAAPAGWHFGQTFE--GKNFRV-----
AtEXPA4 TG-WMSLSRNWGQNWQSN---AVLVGQALSFRVTG-SDRRT-----STSWNMVPSNWQFGQTFV--GKNFRV-----
AtEXPA17 SNKWETMSRNWGANYQSN---TYLNGQSLSFQVQL-SDGSI-----KAALNVVPSNWRFGQSFKS--NVNF-----
OsEXPA33 TD-WMAMSRNWGQNWQSN---AYLNTQSLSFQVVL-DDARE-----VTVWNIAPSNWNFGTTTYTS--NINF-----
TC60282 TG-WQPMSRNWGQNWQSN---SYLTGQSLSFQVTT-SDGNS-----ITFYNVAPSNWQFGQTFAT--SQQFN-----
AtEXPA11 TG-WLAMSRNWGANWQSN---AYLDGQALSFSITT-TDGAT-----RVFLNVVPSSWSFGQIYSS--NVQF-----
OsEXPA12 TG-WVTMSRNWGQNWQAN---NYLNNQALISFSVTS--TAGKT-----LVFEDVAPSNWQFGQTFE--GVQFY-----
TC61381 TD-WLPLTRNWGQNWQSN---TNLQGQALSFSQVSS--SSGHT-----ITSYNVAPSDWQFGQPFQ--GNQF-----
TC66980 TG-WLPLTRNWGQNWQSN---SILKGQALSFSQVTS--SGGRT-----VTSYNVAPSDWQFGQTFE--GNQF-----
OsEXPA32 RVKWTPLKRNWGQEWQTS---EVLGTGSLTFRVMT-GDHRK-----ATSHVLPDPDWQFGVTTYQA--TKNFN-----
AtEXPA22 TG-WITMKRNWGQNWTTI---TVLTGQGLSFRVTT-SDGIT-----KDFWNVMPKNWGFGQTFDG--RINF-----
AtEXPA20 TA-WIPMARNWGQNWQSN---LDLIGQSLSFQVTL-KGGKT-----IASYDVAPPYWRFGMTYQ--GKQFHS-----
OsEXPA16 TG-WIPMGRNWGQNWQCD---ADLRGQPLSFEVTVG-GRGRT-----VVAYSVAPPDWMFAQTFE--GKQFVE-----
TC66979 TG-WLSMGRNWGQNWQHV---ADYRGQALSFEVTT-SDGKT-----VTSYNVAPSDWQFGHTYK--GKQFV-----
AtEXPA13 TG-WLPMGRNWGQNWQHN---ADLRNQALSFEVTS--SDRST-----VTSYNVSPKNWNYGQTFE--GKQFETP-----
OsEXPA10 SG-WLSMGRNWQIWHIN---SDFRGQPLSFEVTS--SDGKT-----LTNYNVVPKEWDFGKTYT--GKQFLL-----
AtEXPA12 GKTWLQMTNRNWGANWQSS---GDLRGQRLSFKVTL-TDSKT-----QTFLNVVPSSWQFGQTFSSRGRQFV-----
AtEXPA7 TN-WISMARNWGASQAF---SSLYGQALSFRVTSYTTGET-----IYAWNVPANWSSGKTYKS--TANFR-----
OsEXPA30 GG-WVRMARNWGASQAF---AQLGGQALSFKVTSYTTGQT-----ILAAGVTPASWCFGLTYQA--RVNFS-----
AtEXPB3 AREWLEMKHVWGANWCII---GG-PLKGPFSIKLTTLSAGKT-----LSATDVVPRNWAPKATYSS--RLNFSPL-----
OsEXPB16 SAQWQDMKHIWATWSLT---PG-PLVGPFSVRLTTLTTRQT-----LSAQDVIPKNWTPKATYTS--RLNFA-----
TC76654 SNTWQGMEEETWGANWCLN---SG-PLQAPFSIRLQSLSTGRT-----LTANNVIPQNWQPGATYRS--LVNYH-----
AAL71871 NGYFYQAQHSWGANWMLINYSVGFQFPLTIKITTKLNDHT-----VVAEDVIPDWFQGGVQYES--NVQIRY-----
AtEXPB2 SDKWLSMSQSWGAVWKL---VSSPLRQPLSLRVTSLGSKT-----VVASNVIPANWQPGAIYKS--NVNF-----
OsEXPB15 GAAWTQMQQSWGAVWKL---AGSALQAPFSIRLTSS--SGKT-----LVASNVIPSGWKPGMSYIS--TVNF-----
AtEXLA1 SPNWGYMTRSHGAVWVTD---KVPTGAIQFRFVVTGGYDG---KMIWSQ--SVLPSNWEAGKIYDA--GVQITDIAQEGCDPCDAHI--WN-----
OsEXLA2 S-NWKFMTRDYGPAWSTA---QAPAGPLQFRVVVTGGYDG---KVVWADGEVLP RRWTAGRVYDA--GVQIADVAQEGCYPCDTQE--WK-----
TC73949 S-EKHDLKRNYGAVWDIE---NPPEGALQFGFVIVSGYNG---KRVWPTKSVLPSDWKVGGVYDS--GLQINDVSLEKCSPCDDNDGGWGDPPP-----
AtEXLB1 K-EWRRMRRVFGAVHDLQ---NPPRGTLTLRFLVYGSAGI---NWIQSP--NAIPADWTAGATYDS--NILLT-----
TC69976 L-QCKLRVTNHGAVWDVV---SPPAGDLSIRFLVSDGDQQ---QWITAA--NAIPANWTAGAVYDS--GIQLDS-----
OsEXLB1 L-TCQLLSRTHGAVWAAV---SPPSGPLSIRMLFSSGAPRGGDTWLVPT--NIVPQNWTAGATYDS--GVQVQLQ-----