

At1g09130 -----PRTPPPDLPSMLLDGRIVYIGMPLVPAVTELVVAELMYLQWLDPKPEIYIYINSTGTTRDDGETVGMSE
Os03g22430 -----RRPPPPDLPSLLHGRIVYIGMPLVPAVTELVVAQLMYLEWMNSKEPVYIYINSTGTARDDGEPVGMSE
At1g49970 -----GGSERPRTPAPDLPSLLLDARICYLGMPIVPAVTELLVAQFMWLDYDNPTKPIYLYINSTPGTQNEKMETVGSSE
Os05g51450 -----SSAPDLPSLLLDLSRIIFLGMPIVPAVTELLIAAQLFLWLDYDDNRKPIYLYINSTGTMDENNELVASETD
At4g17040 -----SKGSAHEQPPPDLASYLFKNRIVYLGMSLVPSVTELLILAEFLYLYQYDEEEKPIYLYINSTGTTK-NGEKLGYTE
Os01g16530 -----LRGTAWQPPPDLASFLYKNRIVYLGMCVPSVTELLMAEFLYLYQYDDAEKPIYLYINSTGTTK-NGEKLGYTE
At1g02560 -----MVQERFQSIYSQLFQYRIIRCGGAVDDMANIIVAQLLYLDAVDPTKDIVMYVNSP-----GGSVTA
Os03g19510 -----VMVERFQSVVSQLFQHRRIIRCGGPVEDDMANIIVAQLLYLDAIDPNKDIIMYVNSP-----GGSVTA
At1g66670 -----SFEELDTTNMLLRQRIIVFLGSQVDDMTADLVISQLLLLDAEDSERDITLFINSP-----GGSITA
Os01g32350 -----RLEELDTTNMLLRQRIIVFLGSQVDDMSADLIISQLLLLDAEDKTKDKIKLFINS-----GGSITA
At5g45390 -----RGAESDVMGLLLRERIVFLGSSIDDFVADAIMSQLLLLDAKDPKKDKIKLFINS-----GGSLSA
Os10g43050 -----PGAGAGDVMGLLLRERIVFLGNEIEDFLADAVSQVLLYLDADKDPKDIIRLFVNSP-----GGSLSA
Os02g42290 -----SRGERAYDIFSRLLKERIVLIHGPIADETASLVVAQLLFLESENPLKPVHLYINS-----GGVVT
Os04g44400 -----SRGERAYDIFSRLLKERIVCIHGPIITDDTASLVVAQLLFLESENPAKPVHLYINS-----GGVVT
At5g23140 -----SRGERAYDIFSRLLKERIICINGPINDDTSHVVVAQLLYLESENPKPIHMYLNSP-----GGHVTA
At1g11750 -----PGGPLDSSVLLFRNRRIIFIGQPINAQVAVISQVLTLASIDDKSDILMYLNC-----GGSTYS
Os03g29810 -----PAGALDLATVLLGNRIIFIGQYINSQVAVRVISQVLTAAVDEEADILIYLNCP-----GGSLS
At1g12410 -----NREEGTWQWVDIWNALYRERIVFIGQNIDEEFSNQILATMLYLDTLDDSRRIYMYLNG-----GGDLTP
Os06g04530 -----PGEGTWQWLDIWNALYRERIIFIGDSIDEEFSNQVLASMLYLDSDVNTKKILLYING-----GGDLTP
Os08g15270 -----
Os12g10590 -----PGDEEVTWVDLYNVMYRERTFLGQEIRCEVTNHITGLMVYLSIEDGISDIFLFINSP-----GGWLIS
Os11g11210 DLPLLPFQPAEVLIPSECKTLHLYEARYLALLEEALYRTNNSFVHLVLDPVVSGSPKASFAVERLDIGALVSIRGVCRVN

At1g09130 GFAIYDSLMLQKNEVHTVCVGAAGGACLLLSAGTKGKRFMMPHAK-----AMIQOPRPVSSGLMPASDLVIRAKEVIT
Os03g22430 GFAIYDAMMRMKTETIHTLCIGAAAGHACLVLAAAGKKGKRYMFPHAK-----AMIQOPRIPSYGMMQASDLVIRAKEVVH
At1g49970 AYAIADTISYCKSDVYTINCMAFGQAAMLLSLGKKGYRAVQPHSS-----TKLYLPKVNRSS-GGAAIDMWIKAKELDA
Os05g51450 AFAIADFINRSKSVYITINLSMAYGQAAMLLSLGKRGKRGVLPNSI-----TKLYLPKVHKS-GGAAIDMWIKAKELDT
At4g17040 AFAIYDVMGVYKPPIFTLCVGNWGEAALLLTAGAKGNRSALPSS-----IMIKQPIARFQGOATDVEIARKEIKH
Os01g16530 AFAIYDAMRYVKVPIFTLCVGNWGEAALLLAAGAKVSVVFASKKYEDNDLILLTFNVQPIGRFQGOATDVIARKEIRN
At1g02560 GMAIFDTMRHIRPDVSTVCVGLAASMGAFLLSAGTKGKRYSLPNSR-----IMIHQPLGGAQ-GGQTDIDIQANEMLH
Os03g19510 GMAIFDTMKHIRPDVSTVCIGLAASMGAFLLSAGTKGKRYSLPNSR-----IMIHQPLGGAQ-GQETDLEIQANEMLH
At1g66670 GMGIYDAMQCKADVSTVCLGLAASMGAFLLSAGSKGKRYCNPNSK-----IMIHQPLGTAG-GKATEMSIRIREMMY
Os01g32350 GMGVYDAMKFCADISTVCFGLAASMGAFLLAAGTKGKRFCEMPNAR-----IMIHQPSGGAG-GKVTEMGLQIREMMY
At5g45390 TMAIYDVVQLVRADVSTIALGIAASTASIILGAGTKGKRFAMPNTR-----IMIHQPLGGAS-GQAIDVEIQAKEVMH
Os10g43050 TMAIYDVMQVLRADVSTIGLGIAGSTASIIILGGGTGKGRFAMPNTR-----IMIHQPSVGGAS-GQALDVEVQAKEILT
Os02g42290 GLAIYDTMQYIRCPVTTLICIGQAASMGSLLLAAGARGERRALPNAR-----VMIHQPSGGAG-GQATDIAIQAKEILK
Os04g44400 GLAIYDTMQYIRSPVTTLCIGQAASMASLLLAAGARGERRALPNAR-----VMIHQPSGGAS-GQASDIAIHAKEILK
At5g23140 GLAIYDTMQYIRSPISTICLGLAASMASLLLAAGAKQRRSLPNAT-----VMIHQPSGGYS-GQAKDITIHTKQIVR
At1g11750 VLAIYDCMSWIKPKVGTAFGVAASQALLLAGGEGKMRYAMPNTR-----VMIHQPQTGCG-GHVEDVRRQVNEAIE
Os03g29810 ILAIYDCMSWIKPKVGTFCGVVASQAAIILAGGEGKMRYAMPNAR-----VMIHQPQGVSE-GNVEEVRRQVGETIY
At1g12410 SLAIYDTMKSLSKSPVGTCHVGLAYNLAGFLLAAGEKGHRFAMPLSR-----IALQSPAGAAR-GQADDIQNEAKELSR
Os06g04530 CMALYDTMLSLSKSPIGTHCLGFANLAGFILAAGEKGSRTGMPLCR-----ISLQSPAGAAR-GQADDIENEANELIR
Os08g15270 -----MAS-----FILLGGEPTKRIAFPHAR-----IMIHQPASAYYRARTPEFLLEVEELHK
Os12g10590 GMAIFDTMQTVTPDIYITICLGIASMVSFILLGGEPTKRIAFPHAR-----IMIHQPASAYYRARTPEFLLEVEELHK
Os11g11210 IINLLQMEPYLRGDVSPIMDISSEIELGLRISKLRSMCNLHSLQMK-----LKVPEDEPLQTNIKASLLWSEKEIFEE

At1g09130 NRDLIVELLSKHTGNSVETVANVMRRPYMDAPKAKEFGVIDRILWRG-----
Os03g22430 NRNTLVRLRLARHTGNPPEKIDKVMRGPYMDSLKAKEFGVIDKILWRG-----
At1g49970 NTEYYIELLAKGTGKSKEQINEDIKRPKYLQAQAIDYGIADKIADSQ-----
Os05g51450 NTDYYLELLSKGVGKPKKEELAEFLKGPYFRAQEAIDYGLADTILHSL-----
At4g17040 IKTEMVKLYSKHIGKSPEQIEADMKRPKYFSPTEAVEYGIIDKVYNE-----
Os01g16530 VKIEMIKLLSRHIGKSVEEIAQDIKRPKYFSPSEAVDYGIIDKVLYNE-----
At1g02560 HKANLNGYLAYHTGQSLEKINQDTRDRFFMSAKEAKEYGGLIDGVIMNP-----
Os03g19510 HKANLNGYLAYHTGQPLDKINVDTRDRYFMSAKEAKEYGGLIDGVIMNP-----
At1g66670 HKIKLNKIFSRITGKPESEIESDTRDNFLNPWEAKEYGGLIDVIDG-----
Os01g32350 EKIKINKILSRITGKPEEQIDETKFDYFMSPEAKDYGIVDSVIDEG-----
At5g45390 NKNNVTSIIAGCTSRSEFQVLKIDDRDRYMSPIEAVEYGLIDGVIDG-----
Os10g43050 NKRNVRILISGHTGRTEPQVEKIDIDRDRYMGPLEAVDYGLIDSVIDG-----
Os02g42290 LRDRLNKIYQKHTGPEIDKIEQMERDLDFMDPEARDWGLIDEVIENR-----
Os04g44400 VRDRLNKIYAKHTSQAIDRIEQCMERDMFMDPEEAHDWGLIDEVIEHR-----
At5g23140 VWDALNELYVKHTGQPLDVVANMMDRDHFMTPPEAKAFGIIDEVIDERS-----
At1g11750 ARQKIDRMYYAFTGQPLEKVQYTERDRFLSASEALEFGLIDGLLETE-----
Os03g29810 ARDKVDMFAAFTGQPLDMVQWTERDRFMSSEAMDFGLVDALLETR-----
At1g12410 IRDYLFNELAKNTGQPAERVFKDLSRVKRFRNAEEAIEYGLIDKIVRPP-----
Os06g04530 IKNYLYSKLSEHTGHPVDKIHEDLSRVKRFRDAEGALEYGIIDRIIRPS-----
Os08g15270 VREMITRVYALRTGKPFWVVSSEMERDVFMSADEAKAYGLVDIVGDEM-----
Os12g10590 VHEMITRVYALRTGKPFWVVSSEMERDVFMSADKAKAYGLVDIVGDEM-----
Os11g11210 YNEGFI PALPERLSFAAYQTVSGMSEAELLSQYKIQAMDSTNTLERLNSGIEYVEH