

*

At1g18600 ----FKSGRLHTLITSAFSSHIDIGHIVSNMIGLYFFGSIAR-NFGPQFLKLYLAGALGGSVFYLIHHAYMAATS PKG
Os01g55740 ----FKSGRLHTLLTNAFSHAESGHLISNMIGLYFFGSSISN-MFGPAFLKLYVAGALAGSAFFLLEKAFLAPRR---
At1g74130 ----FMTGRIHTLITSGFSHVGAATHIINMMGLCYFGARIAR-SFGPRYLLKLYFAGALGGSVFFLSSHLSVISL-KG
At1g74140 GFOKRGWKSWINGANGVVFGLVIANAAVFTMWRVSDRSWMIAR-TLGLYLLKLYFAGALGGSVCFLSYHALLATLK-GE
At1g12750 ----VQGNKWRLLITAMWLHAGIIHLVNMFDVIIIFGIRLEQ-QFGFIRIGLIYLIISGFGG----SILSALFLQK----
At1g63120 ----VHEHGWRLISCIMWLHAGIIHLINMLSLIFIGIRLEQ-QFGFIRVGLIYLIISGLGG----SILSFLFLQE----
Os03g02530 ----VHEHGWRLITSIWLHAGVHLVNMLSLIFIGIRLEQ-QFGYVRIGAIYLLISGLGG----SVLSALFIRN----
Os10g37760 ----VHEHGWRLVTCIWLHAGVHLLANMLSLVLIGIRLEQ-QFGYMRIGIYLVSGIGG----SVLSLFIIRN----
At5g07250 ----VEKKEGWRLITCIWLHAGVIHLGANMLSLVFIFGIRLEQ-QFGFVRIGVIYLLISGIGG----SVLSLFIIRN----
Os08g43320 ----VHQHGAWRLLISCIWLHAGLIHLVNMLSLIFIGIRLEQ-QFGFVRIGIYLLISGFGG----SVLSVLFIRN----
Os09g35730 ----VHQHGAWRLLISCIWLHAGLIHLVNMLSLIFIGIRLEQ-QFGFVRIGAIYLLISGFGG----SVLSVLFIRN----
Os04g48130 ----VHGNGAWRLETSIWLHAGLIHLANMISLLIIGIRLEQ-QFGFWKVGIVYLVSGFGG----SVLSVLFIRN----
At3g53780 ----VKGDGWRLITSCNWLHGGVHLLNMMLTLLFIFGIRMER-EFGFIRIGLIYLIISGFGG----SILSALFLRS----
At4g23070 ----VHKRGVWRLITCMWLHAGVIHLLANMCCVAYIVGRLEQ-QFGFVRVGTIYLVSGFGG----SILSCLFLED----
At2g29050 ----VHKHEVWRLFTCIWLHAGVHLLANMLSLIFIGIRLEQ-EFGFVRIGLIYLIISGFGG----SILSCLFNRA----
Os11g47840 ----VHGHWRLITCIWLHAGVHLLINMCLLFIIGIRLEQ-EFGFVRIGIYLVISGLGG----SLMSALFIRS----
At1g52580 ----VEEGRWRLISCIWLHGGFHLMANMISLMCMIRLEQ-EFGFMRIGALYVISGLGG----SLVYCLTDSQG----
Os01g05430 ----TNDHEGWRLITCIWLHAGVHLLANMLSLLIIGIRLEQ-EFGFMRIGIYLVISGVGG----SLLSALFMVSN----
At1g77860 ----TENHEIWRILTSIWLHAGLIHLVNMMLTLLFIFGIRMER-EFGFIRIGLIYLIISGFGG----SILSCLFNRA----
At1g25290 ----IERGQLWRLATASVLHANMMLHMINCYSLNSIGPTAES-LGGPKRFLAVYLTSAVAKPILRVLSAMS YWFN---
Os09g28100 ----IDRGEWRLATSSLLHANLAHLAFNCFSLNSIGPMVEM-LTGPRLVAVYFTSALAG-----SLMSYRYC---
At5g25752 ----HNFPAYQFVTAIFCHANWNHLSNLFYVIFGKLVBE-EENFGWLWSYLFITGVGAN---LVSWLVLPNR---
Os05g13370 ----YHAFPSWFQFVITSIFCHANWNHLSNLFYVIFGKLVBE-EEGSFALWMSYILTGAGSN---LISWLVLPNTS---
At3g17611 ----FKHKDLKRLFLSAFYHVNPHLVNMMSLLWKGKIKLET-SMGSEFASMVFTLIGMSQGVITLLAKSL-LLLFDY
Os01g18100 ----IHYCDLTRFFLSAFYHLSETHFFFNMSLLWKGKIKLET-SMGSEFASMVFTLIGMSQGVITLLAKSL-LLLFDY
At3g58460 ----ISRFQVYRFYTAIFHGSLLHVLNMMALVPMGSELER-IMGSVRLLYTLVLLATNAVLHLLIASLAGYNFYQ
Os03g44830 ----ASRFQVYRFYTSVVFHGSLLHVLNMMALVPMGSELER-IMGSVRLLYTLVLLATNAVLHLLIASLAGYNFYQ
At3g59520 ----AIEGHYWRMITSAISHISVLHVLNMMALVPMGSELER-IMGSVRLLYTLVLLATNAVLHLLIASLAGYNFYQ
Os01g67040 ----MEGGQWRIITSAFSSHSVHLVNMMSALWSLGVVEQLGQIGLVEYVYLYHTLVLVVLSGLLVGFYHVMIOKFK
Os03g24390 ----RTIPFAWNLTSGYIEQITIPGVIVSIVGLLVLGKVLPE-LWGAKEKLFKIFLVNLSSTACVFTAILLYITQ--
Os07g46170 ----RTIPFAWNLTSGYIEQITIPGVIVSIVGLLVLGKVLPE-LWGAKEKLFKIFLVNLSSTACVFTAILLYITQ--
At3g07950 ----RTIPFAWNLTSGYIEQITIPGVIVSIVGLLVLGKVLPE-LWGAKEKLFKIFLVNLSSTACVFTAILLYITQ--
Os04g01300 ----KTIPFVWTVFTAGYIEQVLPAGISGLGLLFCGKDIEP-VWGRKEFLKFIILVNSICGVLAFCFAVALYYVTG--
At2g41160 ----FEKFRWKLIISAFASFSTTQLLSGLYLLYFFRVFERQ-IGSNKYSVFIFFGSGFVSLILETILLSLTKDP--
At3g56740 ----FEKFRWKLIISAFASFSTTQLLSGLYLLYFFRVFERQ-IGSNKYSVFIFFGSGFVSLILETILLSLTKDP--
Os01g16330 ----VKNFRLWKLFAFGAFQSTPELLEGVYLLYFFRVFERQ-IGSNKYSVFIFFGSGFVSLILETILLSLTKDP--
At5g38510 ----ILAGEWRLVTPMFLHSGIPHVALSSWALLTFGPKVCR-DYGLFTFCLIVILGGVSG---NFMSPFLHTADP---
At2g39060 ----ISINTFGCFIEISYLFYLYIAPREAKISTLKLIVICN-IGGLGLLILLVNLVLPKQHRVSTV-----

At1g18600 QGAFFVRDPTPTP-G--LGASGAVNAIMLLDIFLHPRATLYLEFFIPVPAMLLGIFLIGKDIILRITEGNSNISG-----
Os01g55740 QFYGGWDPNRTPTP-G--LGASGAVNAIMLLDIFLHPRATLYLEFFIPVPAMLLGIFLIGKDIILRITEGNSNISG-----
At1g74130 QRVVPKDQKVPPIGK-LGANGPVYAITLLDMLLYPKVTVYFGMLLRVPVF-AGIYSLGLNIIMKLEGNNTLTSLD---
At1g74140 GVVIKDHOESTAPISQLLGADSSMFAIALLDMFYIPKVTVYFALMLRVHR---IINLGVIELNIPEGGPNHIASS-----
At1g12750 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
At1g63120 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
Os03g02530 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
Os10g37760 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
At5g07250 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
Os08g43320 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
Os09g35730 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
Os04g48130 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
At3g53780 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
At4g23070 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
At2g29050 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
Os11g47840 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
At1g52580 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
Os01g05430 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
At1g77860 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
At1g25290 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
Os09g28100 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
At5g25752 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
Os05g13370 ----SISVGASGALLGLMGAMLSSELLTNWTIYKSKLCAALLSFLFIINLAIGLLPW-----VD
At3g17611 DRAYYN-----EYAVGFSGLVLFAMKVVLNSQA--EDYSSVYGILVPTKYAAWAELILVQMFVFN-----AS
Os01g18100 DEAYYDQ-----YAVGFSGLVLFAMKVVLNSQA--EDYSSVYGILVPTKYAAWAELILVQMFVFN-----AS
At3g58460 YDHLME-----CAIGFSGLVLFAMKVVLNSQA--EDYSSVYGILVPTKYAAWAELILVQMFVFN-----AS
Os03g44830 LHLFLVDE-----PSIGFSGLVLFAMKVVLNSQA--EDYSSVYGILVPTKYAAWAELILVQMFVFN-----AS
At3g59520 IDYFRRV-----TAVGFSGLVLFAMKVVLNSQA--EDYSSVYGILVPTKYAAWAELILVQMFVFN-----AS
Os01g67040 VEYFRRV-----TAVGFSGLVLFAMKVVLNSQA--EDYSSVYGILVPTKYAAWAELILVQMFVFN-----AS
Os03g24390 QEIYLYT-----PLSGFYGLVLFAMKVVLNSQA--EDYSSVYGILVPTKYAAWAELILVQMFVFN-----AS
Os07g46170 EESYLYA-----PLSGFYGLVLFAMKVVLNSQA--EDYSSVYGILVPTKYAAWAELILVQMFVFN-----AS
At3g07950 LEVYLYMPFAGFHGVLGILVGIKQIIPDQEIILLKIKAKWLP SIMLILSIASSFFTLD SAAYLPT-----
Os04g01300 KESFLVTPLSGFHGLAGLVLGLKQLLPNLELPMCFWFKIKAKWMPFFVLCFSTIMAFIV-----
At2g41160 ----TANLLTSGFYALVFASFVFFLDIPVTKRFGLVGHFSDKSFYILAGVQLLSSWKRSIFP-----
At3g56740 ----TANLLTSGFYALVFASFVFFLDIPVTKRFGLVGHFSDKSFYILAGVQLLSSWKRSIFP-----
Os01g16330 ----YLSLACGFYGLIFASFVFFLDIPVTKRFGLVGHFSDKSFYILAGVQLLSSWKRSIFP-----
At5g38510 ----TVGGTGHAFALIGAWLVDQONQNKEMTKSNEYEDLFQKAIMTGFGILSHFGPIDWT-----
At2g39060 ----GWVCAAYSLAVFASPLSVMRKVTKTSVEYMPFLLSLSLTNAVMWFFYGLLIKDKFIAMP-----

At1g18600 -SAHLGGAAVAIAWARIRKGRF-----
 Os01g55740 ---PG-----
 At1g74130 ---QLGGVVVAVIAWARIRKGRF-----
 At1g74140 -SQQLGGVVVAAMAWARIKKGRF-----
 At1g12750 NFAHIGGLLTGFCLGFILLMQPQ-----
 At1g63120 NFAHIGGFLTGFCLGFVLLVRPQ-----
 Os03g02530 NFAHIGGFLTGFLLGFVLLMRPH-----
 Os10g37760 NFAHIGGFLTGFLLGFIFLMRPH-----
 At5g07250 NFAHVGGFVTGFLLGFILLARPQ-----
 Os08g43320 NFAHIGGFVTGFLLGFVLLARPQ-----
 Os09g35730 NFAHIGGFVTGFLLGFVLLARPQ-----
 Os04g48130 NFAHIGGFATGFLLGFVLLIQPQ-----
 At3g53780 NFAHIGGFATGFLLGFVLLIRPH-----
 At4g23070 NFAHIGGFFGGFLLGFLLIHPQ-----
 At2g29050 NFAHLGGFTSGFLLGFVFLIRPQ-----
 Os11g47840 NFAHIGGLISGFLLGFVMFIRPQ-----
 At1g52580 NSAHGGGFLAGFFLGFVLLLRPQ-----
 Os01g05430 ELCTVFKVELQHAKQLLHVNDECLYFDKYS-----
 At1g77860 NFANIGGFISGFLLGFVLLFKPQ-----
 At1g25290 NWGHIGGLLGGTAMTWLLGPQWK-----
 Os09g28100 NWGHIGGLLGGMAMAWFLGPAWQ-----
 At5g25752 HIAHLSGALVGVLVWLLSKFPS-----
 Os05g13370 NIAHLSGALIGAALVFLINRIPF-----
 At3g17611 FLGHLGGILAGIIVLKLKGSYSG-----
 Os01g18100 LIGHLGGILAGLAYLWLKRSFSG-----
 At3g58460 LLGHLGILSGFSYSYGLFNFLM-----
 Os03g44830 LLGHLGILSGFAYTYGLFNLYL-----
 At3g59520 FLGHLSGILVGVAISWGLIGGMN-----
 Os01g67040 FIGHLSGIIVGYSIWGLVHGMN-----
 Os03g24390 SVSYIPILFGIYLSWIYLRYPQ-----
 Os07g46170 LVSYLPVILFGIYMSWIYLRYPQ-----
 At3g07950 ---LIFGTVMGWLYLRYLQRRPE-----
 Os04g01300 PDSINFLPTLLSGMYVSWIYLRYPQ-----
 At2g41160 --GICGIIAGSLYRLNIFGIRK-----
 At3g56740 --GICGIIAGSLYRLNILGIRK-----
 Os01g16330 --GICGLIAGSLYRLNVLGIRR-----
 At5g38510 ---NLGALIAGIVYGFFTCPVLQ-----
 At2g39060 ---NILGFLFGVAQMILYMMYQG-----