

At1g66900 -----LSNRLRVNLMGYDYSGYGQSTGQASEC--NTYADIEASYKCLKKEYGVKDDQLIVY
 Os01g49510 -----LSRRLRINLFGYDYSYGRSTGKPTec--NTYADIEAAYNCLKEYGVVADEDIILY
 Os02g09770 -----LSAHLNVNLMGYDYSGYGQSSGKPSSEH--NTYADIEAVYRCLVETYGASEENIILY
 Os06g42730 -----LSSHLNVNLMGYDYSGYGQSSGKPSSEH--NTYSDIEAAYRCLVETYGATEENIILY
 At3g01690 -----LSIHLKVNLMGYDYSGYGQSTGKPSSEH--NTYADIEAVYKCLEETFGSKQEGVILY
 At4g24760 -----LSIHLRVNLMGYDYSGYGQSSGKPSSEH--NTYADIEAAYKCLEENYGAQENIILY
 Os12g18860 -----LSFNLRVNVLG YDYSGYGQSSGKPSSEH--NTYADIEAAYKCLINFGAKEEEIILY
 At3g30380 -----LSLHLRVNLI GYDYSYGRSSGKPSSEH--NTYSDIEAVYRCLVETYGAVKEQDVILY
 At2g24320 -----LRAHLRVNIMS YDYSYGGASTGKPTel--NTYYDIEAVYNCLRTEYGI MQEEMILY
 Os02g55330 -----LELRAHLRVNIMS YDYSYGGASTGKPSey--NTYCDIEAVYDCLTKVYGIEPEDLILY
 At1g32190 -----LKVNLRVNLMGYDYSYGGASTGKPSey--DTYADIEAAYECLQTDYGVGQEDLILY
 At1g13610 -----SDLAQIFYILAELIQLNVNLMGYDYSYGGQSSGKPSSEH--DTYADIEAAYNWLRTYGT KDERIILY
 At5g20520 -----GNIAHRLVMRIMIQ LKCNVFMLSYRGYGASEGYPSQ--GIKDAQAALDHLSGRTDIDTSRIVVF
 Os07g41730 -----HRLDFVRLMMQ LCNVFMLSYRGYGESDGYP SQK--GIINDAQ AALDHLVRRKIDIDTSRIVVF
 At4g14290 -----ADASEAAI VLLPSNITIFTLDFS GSGLSGGEHVTLGWNEKDDLKAVVEYLRTDGNVS--LIGLW
 Os03g24450 -----ADASEAAI ILLPSNITIVFTLDFS GSGLSGGEHVTLGWNEREDLKAVVNHLRTDGNIS--CIGLW
 At3g47560 -----FETMKNVAVAIEREGISAFRFD FSGNGESEGSFY YG--NYNYEADDLHSVVIQYFSNLNRVVTIIL
 Os01g39380 -----LILDLMAALTKKGISVFRFDFSGNGESEGF EYF--NYRKEADDLHSVVSYLCKEYDVTALV
 Os05g46210 -----DSILVDLAYAL TREGVSAFRFDFAGNGESE GQFYQ--NYRREADDLHSVVS YFTEQEYNIIGLV
 At5g25770 EWL RPWLEAYASRGYVAIGLDSRYHGERADCKTAYRDALISSWRNGNTMPFIFDTVWDLIKLAEYLT RDDIDPKKIGIT
 Os06g06770 EWL RP LLEAYASRGYISVAIDSR YHGERANNNSTYIDALKSAWRNGDAMPFILD TVWDLIKLGDHLSEREDVDP CRIGIT
 At1g20380 -----PFFSATRIVLGRHLGTVFCFANIRGGGEYGE EWHKSGALANKQNCFFDFISGA EYLVSAGYTPRKLCIE
 (S9A) At1g76140 -----PSFSASRI VLSKHLGVVFCFANIRGGGEYGE EWHKAGSLAKKQNCFFDFISGA EYLVSAGYTPPSKLCIE
 (S9A) Os01g01830 -----PSFSVSRVVLCKNMGFVVCVANIRGGGEYGE EWHKAGARAMKQNCFFDFIACAELLISAGYTSYRQLCIE
 Os04g47360 -----PHFSVTRIVLMRNLGFVSCIANIRGGGEYGEDWHKAGSLANKQNCFFDFIAG EFLVSAGYTNPSRLCIE
 At1g50380 -----PYFKASRLSLLDRG-FTFVIAHVRGGGEMGRQWYENGKLLKKKNTFTDFIACAERLIELKYCSKEKLCIN
 Os06g51410 -----PSFGRSRFSLVDRG-FIYVIAHIRGGGEMGRKWYEDGKLLNKRNTFTDFIACA EHLIENKYCSKEKLCIN
 At1g69020 -----KSWCTNRLSMLDRG-WVIAFADVRGGGSGEFSWHKSGTRSLKQNSIQDFIYS AKYLVKGYVHRHHLAAV
 Os09g29950 -----SWCSDRLSLLARG-WVIAFADVRGG--GDSSWHLAGTKANKINSIKDFAACGTHL IEGFVHKNRLCAI
 At5g66960 -----KRWRSELKSLLDRG-WVLAYADVRGGGKGKKWHQDGRGAKKLNSIKDYIQCAKYLVENNIVEENKLAGW
 Os09g28040 -----KRWRSELKSLLDRG-WVIAFADVRGGGKGKKWHQD GARTKKMNSIYDFISCGEFLLEKGIKENKLAGW
 Os10g28020 -----SSYSKSLAFLYSQGYNLLV VNYRGS LGFGEEALQSLPGNIGSQDVNDVLTALDFVIKGLIDASKVAVV
 Os10g28030 -----SSYSKTSAPLASLGFNLLIVNYRGT PGFGEEALQSLPGKVGSQDVQDCLTALDYVIEGGLIDASKVAVI
 At4g14570 -----CSFSRTMAYLSSIGYSQLIIN YRGS LGGEDALQSLPGKVGSQDVKDCLLAVDHAIEMGIADPSRI TVL
 At5g36210 -----GSLNLNIQYWT SRGWA FVDVNYGGSTGYGREYRERLLRQWGIVDVDDCCGCAKYLVSSGKADVKRLCIS
 Os06g11180 -----LDLSVQYWT SRGWA YLDVNYGGSTGYGREYRERLLGKWGIVDVDDCCSCARVLVESGKVDERRLCIT
 Os06g11190 -----GVLDLGVQYWT SRGWA FVDVNYGGSTGYGRKFRERLLQWGVVDVNDCCSCATFLVETGRVDAQRLCVT
 (S9B) At5g24260 -----NTVDMRTQYLR SRGILVWKLDNRGTARRGLKFESWMKHNCGYVDAEDQVTGAKW LIEQGLAKPDHIGVY
 Os02g18850 -----STVDMRAQFLRSKGILVWKMDNRGTARRGLQFEGQLKYNIGRVDAEDQLAGAEWL IKKGLAKPGHIGLY
 (S9D) At2g47390 -----AGIGSTSALLWLARRFAILSGPTIPIIIEGDEE AN---DRYVEQLVASAEAAVEEVVRRGVADR SKIAVG
 (S9D) Os03g19410 -----PGIGATSP LLWLARGFAILSGPTIPIIIEGDEE AN---DRYVEQLVTSAEAAAEEVVRRGV AHPDKIAVG
 (S9D) Os07g48970 -----ARIRSNFPL LWFAILADPTIPIIIEGRDQ EAN---DRYIEQLVASAEAAVNEIVRRGV AHPDKIAVG
 At1g26120 -----AWG-SLLGQQLSERDII VACIDYRNFPQGSISDMVKDASSGISFVCNHIAEYGGDP---DRIYLM
 At5g15860 -----AWG-SLLGMQLAERDII VACL DYRNFPQGTISDMVTDASQGISFVCNNISAFGGDP---NRIYLM
 Os10g04620 -----FFLDGIARKIASAGYGVFALDYPGFGLSEGLHGFIPSFDTLVDDVAEHFTKVKENPEHRGLPSFLF
 At5g19630 -----ALLKGIASELASKGFKSVTFDTRGAGKSTGRATLTGFAEVKDVAVCRWL CN---VDAHRILLV
 Os01g42690 -----AWFDVEDTSDVGRDDIEG-----LDASAAHVANLLSSEPSDVKL GIG
 Os01g57770 -----WTYFKVATRLRSAGYRVTA PDLGASGVDPRLREVPTFRDYTA PLLGLLGS LPPGEKVVLV

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At1g66900 QQSVGSGPTVDLASRTPNLRGVVLQCPILSGMRVLYPVKCTYWFEDIYKN-----
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Os02g09770 QQSVGSGPTIDLASRLPHLRVAVVLHSPILSGLRVMYPVKHTYWFEDIYKN-----
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At3g01690 QQSVGSGPTIDLASRLPQLRAVVLHSPILSGLRVMYSVKKTYWFEDIYKN-----
At4g24760 QQSVGSGPTVDLAARLPRLRASILHSPILSGLRVMYPVKRTYWFEDIYKN-----
Os12g18860 QQSVGSGPTVDLASRLHRLRAVVLHSPILSGLRVMYPVKRTYWFEDIYKN-----
At3g30380 QQSVGSGPTLELASRLPNLRVAVVLHSAIASGLRVMYPVKRTYWFEDIYKN-----
At2g24320 QQSVGSGPTLHLASRVKRLRGIVLHSAILSGLRVLYPVKMTFFWFDIYKN-----
Os02g55330 QQSVGSGPTLHLASRLKLRGVVLHSAILSGIRVLYPVKVTWLFDFIKN-----
At1g32190 QQSVGSGPTLHLASKLPRLRGVVLHSGILSGLRVLCVHKFKCCDIYSN-----
At1g13610 QQSVGSGPSLELASRLPRLRALVLHSPILSGLRVMYPVKHSFPFDIYKN-----
At5g20520 GRSLGGAVGAVLTKNNDPKVSALILENTFTSILDMAGVLLPFLKWFIGGSGTK-----SLK
Os07g41730 GRSLGGAVGAVLAKNNPGKVSALILENTFTSILDMAGIMLPFLRWFIGGSSSK-----GPK
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At3g47560 GHSKGGDVVLLYASKYHDIPNVINLSGRYDLKKGIGERLGEDFLERIKQQGYIDVKD-----GDS
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At1g20380 GGSNGGILVGACINQRPDLFGCALAHVGVMMLRFHKFTIG---HAWTSEFGCS-----
(S9A) At1g76140 GGSNGGILVGACINQRPDLFGCALAHVGVMMLRFHKFTIG---HAWTSDYGCs-----
(S9A) Os01g01830 GGSNGGLLIAACVNQRPDLFGCALAHVGVMMLRFHKFTIG---HAWTTDYGCs-----
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At1g69020 GYSAGAILPAAAMNHPSLFQAVILKVPFVDVLTNTLSDPNLPLTLLDHEEFGNP-----
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At4g14570 GGSHGGFLTTHLIGQAPDKFVAAAARNPVCNMAVMGITDIPDWCFEAYGDQ--SHYT-----E
At5g36210 GGSAGGYTTLASLAFR-DVFKAGASLYGVADLKMLKEEGHKFESRYIDNLVGD-----
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(S9B) At5g24260 GWSYGGYLSATLLTRYPEIFNCAVSGAPVT-----SWDGYDSFYTEKYMGLP-----
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(S9D) At2g47390 GHSYGAFMTANLLAHAPHLFCGCIARSGAYN---RTLTPFGFQNEEDRTLWEAT-----
(S9D) Os03g19410 GHSYGAFMTANLLAHAPHLFCGCIARSGAYN---RTLTPFGFQNEEDRTLWEAT-----
(S9D) Os07g48970 GHSYGAFMTANLLAHAPHLFCGCIARSGAYN---RTLTPFGFQKEVRTLWEAT-----
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At5g15860 QQSAGAHIAACALLEQATKELK-GESISWTVSQIKAYFGLSGGYNLYKLVDHFHNRGLYRSIFLS-----
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 Os02g09770 -----IDKIPLVR-----CPVLVIHGTADDEVVDCSHGRALWELSKV-----KYEPLW
 Os06g42730 -----IDKVPLVK-----CPVLVIHGTADDEVVDCSHGRALWELSKI-----KYEPLW
 At3g01690 -----IDKIPYVD-----CPVLIIHGTSDDEVVDCSHGKQLWELCKD-----KYEPLW
 At4g24760 -----IDKITLVR-----CPVLVIHGTADDEVVDFSHGKQLWELCQE-----KYEPLW
 Os12g18860 -----IDKIPOVT-----CPVLIIHGTADDEVVDWSHGKQLWELCKE-----KYEPLW
 At3g30380 -----VEKISFVK-----CPVLVIHGTSDDEVVNWWSHGKQLFELCKE-----KYEPLW
 At2g24320 -----IDKIRHVT-----CPVLVIHGTKDDIVNMSHGKRLWELAKD-----KYDPLW
 Os02g55330 -----IDKIKQVD-----CPVLVIHGTADDEVVDFSHGKRLWELAKE-----KYEPLW
 At1g32190 -----VNKIKVK-----CPVLVIHGTEDDEVVNWHLGNRLWKMAKE-----PYEPLW
 At1g13610 -----IDKIHLE-----CPVLVIHGTDDDEVVNIWSHGKHLWGLCKE-----KYEPLW
 At5g20520 LLNFVVRSPWKTIDAIIEIK-----QPVLFLSGLQDEMPPFHMKMLYAKAAARNP-----QCTFVE
 Os07g41730 LLNCVVRSPWSTLDIIAEVK-----QPIIFLSGLQDELPPSHMRLLYEKA FEHNK-----NCRFVD
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 Os05g46210 EYQVTEESLMDRLNTD TLSSR-----SISKCCRVLTVEHSGDETVPVEDALMFAANIPN-----HELHI
 At1g52770 VEKVVNRIPGLASKFDS PYSL-----PVIAPRPLYILNGANDPRCPGLGGLALAKRAEK-----AYKET
 Os06g06770 VEKVWDKIAPGLDSQFDAPFSL-----PVIAPRPLLLLNGAEDPRCPVLGLQEPVSRAAK-----AYEEVG
 At1g20380 -DKEEEFHWLIKYSPLHNVKRPWEQKTDLFFQYPSMTLLTADHDDRVVPLHSYKLLATMQYELGLSLENSPOTNP IARI
 (S9A) At1g76140 -ENEEEFHWLIKYSPLHNVKRPWEQQTDLHVQYPSMTLLTADHDDRVVPLHSLKLLATLQHVLC TSLD NSPOMNPIIGRI
 (S9A) Os01g01830 -DNEEEFHWLIKYSPLHNVR RPWEQSFVNCCQYPAIMLLTADHDDRVVPLHSLKLLATLQYVLC TSIEDTPQVNP IIGRI
 Os04g47360 -EKEEEFHWLIKYSPLHNVR RPWEKG-HRRQQYPSMTLLTADHDDRVVPSHTLKFLATMQHVLC TSVKES POTNP IIVARI
 At1g50380 -RKEEFYFYMKSYSPVDNVT-----AQN-YPNMLVTAGLNDPRVMYSEPGKWVAKLREMKT DNN-----VLLFKC
 Os06g51410 -RKEEYFYMKSYSPVDNLK-----AQG-YPNILVTAGLNDPRVMYSEPAKYVAKLRELKT DDN-----LLLFKC
 At1g69020 -DNQTD FGSILSYSPYDKIR-----KDVCYPSMLVTTSFHD SRVGVWEGAKWAKIRDSTCHDCS-----RAVILKT
 Os09g29950 -NISTEFD TIRSYSPYDNLS-----PDICYPPVLVTASFNDTRGVWEAAKWVSKVRDITCQSCS-----WSVILKT
 At5g66960 -GDINDFHAIREYSPYDNIP-----KDVLYPAVLVTSSFN-TRFGVWEAAKWVARVRDNTFNDPE-----RPVLLNL
 Os09g28040 -VDHEEFLSIRKYSPYDNIQ-----KDVYPYPAVFVTSSFN-TRFGVWEAAKWVAKVREVTRYDPE-----RPSQLYG
 Os10g28020 YPSFDDLCQFHQKSPISHIS-----KVSTP--TLFLLGAQLRVPVSNGLQYARTLKEMG-----VETKIIV
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 At4g14570 APSAEDLSRFHQMSPISHIS-----KVKTP--TLFLLGTGLRVPISNGFQYVRALKEKG-----VEVKVLV
 At5g36210 -----EKDFYERSPINFVD-----KFSCP--IILFQGLEDKVVTDPQSRKIYEALKKKG-----LPVALVE
 Os06g11180 -----ENAYYERSPINFVD-----KFTCP--VILFQGLDDKVVPDPQARKIYKALKEKG-----LPVALVE
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 (S9B) At5g24260 ---TEE-ERYLKS SVMHHVG-----NLTDKQKMLLVHGMIDENVHFRHTARLVNALVEAG-----KRYELLI
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 (S9D) Os03g19410 -----NTYVEMSPFMSAN-----KIKKPILLIHGEQDNNSGITLMQSDRFFNALKGHG-----ALSRLVI
 (S9D) Os07g48970 -----DTYIKMSPFMSAN-----KIKKPILLIHGEDDSKVTIAMQS-----KLVH
 At1g26120 --IMEGEESLRQFSPELVVQNP--NLKHI IARLPPFILPHGTDDYSIPSDASKSFAETLQRLG-----AKAKVIL
 At5g15860 --IMEGEESFEKFSPEVRLKDP--VVGKAASLLPPIILFHGSSDYSIPCDESKTFTDALQAVG-----AKAELVL
 Os10g04620 YNVIAYKDKPRLRTALEMLRTTKIEIESRLEEVSLPIIILHGEGLVTDPAVSKALYDKAKSSD-----KTLRL
 At5g19630 -----PKLFVMGTQDGFITSVSQLKKKLKSAVG-----RTETHL
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 Os02g18850 FPDREHMPRRLGDRIYMEERIWDFVERN-----
 (S9D) At2g47390 LPHESHGYSARESIMHVLWETDRWLQKYCVPNL---
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 Os10g04620 YKDAYBAILEGEPDEAIFQVLDIISWLDQHSTKK-
 At5g19630 IEGVSHFQMEGPEYDSQVTDIICKFISSL-----
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