

```

gi|85111610
YKL134C
Cre02.g073400|Cre02.g073400.tl.3
Voc20013694m.g|Vocar20013694m
gi|322551
CMZM2G450659|CMZM2G450659.T01
gi|268637658
Esi0033_0093
tr|M1C3Y6|M1C3Y6_SOLTU
GSVIVG01018572001|GSVIVT01018572001
GRMZM2G450659|GRMZM2G450659.T01
LOC_Os06g47210|LOC_Os06g47210.1
Cucsa_251510|Cucsa_251510.1
Glyma04g13088|Glyma04g13088.1
Medtr3g009160|Medtr3g009160.1
Bra029169|Bra029169
Carubv10025983m.g|Carubv10025983m
AT5051540
Eucgr.K00152|Eucgr.K00152.1
30147.t000467|30147.m014196
Potri.015G129300|Potri.015G129300.1
416778|416778
Phpat.016G041000|Phpat.016G041000.1
gi|21929758
gi|85107353
YCL075W
gi|66801567
CMZM446C|CMZM446C.T
gi|4507491
gi|14149738|ref|NP_065777
LOC_Os01g67590|LOC_Os01g67590.1
Bra004244|Bra004244
Bra004078|Bra004078
Carubv10019853m.g|Carubv10019853m
AT1067690
Eucgr.B03454|Eucgr.B03454.1
Medtr3g086000|Medtr3g086000.1
Glymallg37410|Glymallg37410.2
Glymal18g01380|Glymal18g01380.1
Cucsa_394790|Cucsa_394790.1
GSVIVG01010319001|GSVIVT01010319001
29929.t000229|29929.m004709
Potri.010G054500|Potri.010G054500.1
164651|164651
Phpat.018G066900|Phpat.018G066900.1
Phpat.019G066000|Phpat.019G066000.1
Esi0023_0135
85692|85692
97633|97633
119899|119899
97030|97030
Cre13.g572900|Cre13.g572900.t2.1
Vocar20008539m.g|Vocar20008539m
439159
Eucgr.L02517|Eucgr.L02517.1
GSVIVG01031425001|GSVIVT01031425001
GRMZM2G133919|GRMZM2G133919.T01
LOC_Os02g58340|LOC_Os02g58340.1
PGSC003DMG400030613|PGSC003DMT40007866
Carubv10000350m.g|Carubv10000350m
Brad0651|Bra0651
Brad0651|Bra0651
Carubv10025914m.g|Carubv10025914m
AT5065620
Brad024401|Bra024401
Medtr5g030940|Medtr5g030940.1
Glyma01g02480|Glyma01g02480.1
Glyma09g33490|Glyma09g33490.1
Cucsa_273340|Cucsa_273340.1
GSVIVG01003850001|GSVIVT01003850001
Eucgr.I00597|Eucgr.I00597.1
Eucgr.I00597|Eucgr.I00597.1
28333.t000012|28333.m000566
Potri.007G004600|Potri.007G004600.1
Potri.014G004600|Potri.014G004600.1
Potri.014G010100|Potri.014G010100.1
28658.t000001|28658.m000032
30484.t000001|30484.m000014

```


gi|85111610
YKL134C
Cre02.g073400|Cre02.g073400.tl.3
Vocar20013694m.g|Vocar20013694m
gi|5156501
CMS151|CMS151.32CT
gi|268637658
Esi0033.0093
tr|MIC3Y6|MIC3Y6_SOLTU
GSVIVG01018572001|GSVIVT01018572001
GRMZM2G450659|GRMZM2G450659_T01
LOC_Os06g47210.1
Cucsa_251510|Cucsa_251510.1
Glyma04g13088|Glyma04g13088.1
Medtr3g009160|Medtr3g009160.1
Bra029169|Bra029169
Carubv10025983m.g|Carubv10025983m
AT5051540
Eucgr.K00152|Eucgr.K00152.1
30147.t000467|30147.m014196
Potri.015G129300|Potri.015G129300.1
416778|416778
Phpat.016G041000|Phpat.016G041000.1
gi|2119758
gi|1013533
YOL057W
gi|46801567
CMS446C|CMS446CT
gi|4507491
gi|14149738|ref|NP_065777
LOC_Os01g67590|LOC_Os01g67590.1
Bra004244|Bra004244
Bra004078|Bra004078
Carubv10019853m.g|Carubv10019853m
AT1667690
Eucgr.B03454|Eucgr.B03454.1
Medtr3g086000.1|Medtr3g086000.1
Glymallg37410|Glymallg37410.2
Glymalg01380|Glymalg01380.1
Cucsa_394790|Cucsa_394790.
GSVIVG01010319001|GSVIVT01010319001
29929.t000212|29929.m004709
Potri.019G054500|Potri.019G054500.1
164651|164651
Phpat.018G066900|Phpat.018G066900.1
Phpat.019G066000|Phpat.019G066000.1
Esi0023.0135
85692|85692
97633|97633
119899|119899
97030|97030
Cre13.g572900|Cre13.g572900.t2.1
Vocar20008539m.g|Vocar20008539m
439159
Eucgr.L02517|Eucgr.L02517.1
GSVIVG01031425001|GSVIVT01031425001
GRMZM2G133919|GRMZM2G133919_T01
LOC_Os02g58340|LOC_Os02g58340.1
PGSC0003DMG400030613|PGSC0003DMT40007866
Carubv10000350m.g|Carubv10000350m
Bra028567|Bra028567
Bra028579|Bra028579
Carubv10025914m.g|Carubv10025914m
AT505652
Bra024401|Bra024401
Medtr5g030940|Medtr5g030940.1
Glyma01g02480|Glyma01g02480.1
Glyma09g33490|Glyma09g33490.1
Cucsa_273340|Cucsa_273340.1
GSVIVG01003850001|GSVIVT01003850001
Eucgr.I00597|Eucgr.I00597.1
Eucgr.I00594|Eucgr.I00594.1
28333.t000012|28333.m000566
Potri.007G004600|Potri.007G004600.1
Potri.014G004600|Potri.014G004600.1
Potri.014G010100|Potri.014G010100.1
28658.t000001|28658.m000032
30484.t000001|30484.m000014

200 -----VSTTWSEERVMVAEVKLDPE-AKSAVHPPKD-ANDKLVHHSAA-SQTGT-----N|IQ
186 -----VSSKPSLEKVKQKIDDDF-BKSGLYNPD-VREKEIOPQSISLVGQ-----EF|IN
28 -----RPWMGGWCRESVLVAQRKQDM-EQAGIHPPSLDQRNRABAAANGHFCT-----AS|NA
98 -----GPQQLAGCESVLSVAQRKQDM-EQAGIHPPSLDQRNRABAAANGHFCT-----AS|NA
141 -----S-PDQVDEKTRTATLDDF-BQSQVHKQDN-QBQVHPSLSDQRNRABAAANGHFCT-----AS|NA
140 -----V-BEGAVRQPSDFALRGASLS-KRSHVAA-PRQVHPSLSDQRNRABAAANGHFCT-----AS|NA
149 -----RHVPPVPSDFALRGASLS-KRSHVAA-PRQVHPSLSDQRNRABAAANGHFCT-----AS|NA
140 -----AMDGTCGQEVNLMLHNSLPSDFALRGASLS-KRSHVAA-PRQVHPSLSDQRNRABAAANGHFCT-----AS|NA
193 -----N-BETTHBAAARFRPMP-EKGCIHICSE-MDKRANAEAHIIHICSE-----EY|NS
140 -----N-BETTHBAAARFRPMP-EKGCIHICSE-MDKRANAEAHIIHICSE-----EY|NS
140 -----N-BETTHBAAARFRPMP-EKGCIHIAAD-MDRVNQHVVIAHRCMELYMEINSTDMILRLWAIMED-----EY|NS
140 -----V-MTTEPAPRAATTTFVDP-BKGGTHHPKD-KLHVNVHNPLTAQGR-----ME|SS
145 -----H-MPSPEAOKGWRNKRADP-BERGGIHICPE-KLDRVNKNIB-ISMCR-----EY|NS
145 -----H-MPSPEAOKGWRNKRADP-BERGGIHICPE-KLDRVNKNIB-ISMCR-----EY|NS
158 -----H-MPSPEAOKGWRNKRADP-BERGGIHICPE-KLDRVNKNIB-ISMCR-----EY|NS
135 -----N-LITTEASERTAHHRMDP-BERGGIHICPE-KLDRVNNTNTN|FO|CS-----EF|SC
138 -----N-LITTEASERTAHHRMDP-BERGGIHICPE-KLDRVNNTNTN|FO|CS-----EF|SC
138 -----N-LITTEASERTAHHRMDP-BERGGIHICPE-KLDRVNNTNTN|FO|CS-----EF|SC
140 -----H-LITTEASERTAHHRMDP-BERGGIHICPE-KLDRVNNTNTN|FO|CS-----EF|SC
145 -----H-LITTEASERTAHHRMDP-BERGGIHICPE-KLDRVNNTNTN|FO|CS-----EF|SC
153 -----H-LITTEASERTAHHRMDP-BERGGIHICPE-KLDRVNNTNTN|FO|CS-----EF|SC
169 -----A-LITTEASRAAKTTRIDF-BERGGIHICPE-KMVRVNEELNLITD|GR-----EF|SC
74 -----I-LITTEASRAAKTTRIDF-BERGGIHICPE-KMVRVNEELNLITD|GR-----EF|SC
193 -----AKDGHESWQSRLPEWVLLBII-KASGLDKE-DKTKVIGWSLSPDVEYRS-----RY|IT
191 -----SKADHESWQSRLPEWVLLBII-KASGLDKE-DKTKVIGWSLSPDVEYRS-----RY|IT
146 -----DFKESMPSLPSLQVYWSKTLHEP-EKNGLODPK-KRKEKLKEMTMK-SDNS|-----KES
114 -----ARYITEDIAKNAGF-----
309 SRRREOLRHKRRESILEQAAHQDYYDFGROTPLGQAQAAAALCPE-HVYVYRFTVRLP-BERGGIHICPE-KLDRVNNTNTN|FO|CS-----EY|OR
131 -----KDNLRPBPYLPBPMLP-BERGGIHICPE-ETPENIKRKKKLSSLCI-----DB|NK
155 -----LGKIKPFAAPYLEKSIKMG-KRNGLHHP-EQVONB1KSMKRMMSH|CI-----DE|NK
152 -----GERIGIEAPFPWOCMVRPBP-BPNCAKUTQ-SKTEEMKMKSH|DLSL-----HY|Q
165 -----GESIISPAEAKRYQOCMVRPBP-BHNGLNLT-TA-TKRELEVDRNR|DLSL-----HY|Q
166 -----GESIISPAEAKYLOCQCMVRPBP-BDNGLNLT-T-TKREEVGRKDEBDELSS-----RY|Q
215 -----GESIISPAEAKYLOCQCMVRPBP-BDNGLNLT-TA-VKREEVGRKDEBDELSS-----RY|Q
166 -----GESIISPAEAKYLOCQCMVRPBP-BDNGLNLT-TA-IKREEVGRKDEBDELSS-----RY|Q
162 -----GDWMSPEAFCYLQCMVRPBP-BERGNLNLTAT-AKREEVGRKDEBDELSC-----QY|Q
164 -----GDWMAEATINSFWQIYVRLPBP-BERGNLNLTSA-SKREELLRLLIKACI|DLSI-----IY|Q
138 -----VRFD-BERGNLNLT-TA-SKREELQRDQIDELSP-----IY|Q
164 -----GEWMNAEAKRFWQIYVRLPBP-BERGNLNLT-TA-SKREELQRDQIDELSP-----IY|Q
160 -----GEOTTSSEAOKCFQOCMVRPBP-BERGNLNLT-TA-SKREELQRDQIDELSP-----IY|Q
142 -----GEWISNEAHHYKCCMVRPBP-BERGNLNLT-TA-SKREELQRDQIDELSP-----IY|Q
165 -----GEWMNNEAHHYKCCMVRPBP-BERGNLNLT-TV-TKREEPQRKACI|DLS-----RY|Q
163 -----GEWMNNEAHHYKCCMVRPBP-BERGNLNLT-TV-TKREEPQRKACI|DLS-----RY|Q
53 -----WENLSEAPKRVIVEAQIKEA-VLNGVSLED-GKREEFNKEQLEKLSK-----KF|DE
164 -----WEALNDARKRIVIVEAQIKEA-VLNGVSLED-NKREEMNEIQLKEQLEKLS-----KF|DE
223 -----WDELNSARKRIVIVEAQIKEA-VLNGVSLED-EOKKKNEQLEKLS-----KF|DE
192 -----WEALNSARKRIVIVEAQIKEA-VLNGVSLED-EOREQNKEQLEKLS-----KF|DE
193 -----WDLNSARKRIVIVEAQIKEA-VLNGVSLED-DKREQNNKEQLEKLS-----KF|DE
235 -----WKALESARKRIVIVEAQIKEA-VLNGVSLED-DKREEFNKEQLEKLS-----KF|DE
125 -----WN3LIEA----POIKEA-VLNGVSLED-DKREEFNKEQLEKLS-----KF|DE
125 -----WN3LIEA----POIKEA-VLNGVSLED-DKREEFNKEQLEKLS-----KF|DE
125 -----WN3LIEA----POIKEA-VLNGVSLED-DKREEFNKEQLEKLS-----KF|DE
233 -----WN3LIEA----POIKEA-VLNGVSLED-DKREEFNKEQLEKLS-----KF|DE
233 -----WN3LIEA----POIKEA-VLNGVSLED-DKREEFNKEQLEKLS-----KF|DE
137 -----WN3LIEA----POIKEA-VLNGVSLED-DKREEFNKEQLEKLS-----KF|DE
212 -----WN3LIEA----POIKEA-VLNGVSLED-DKREEFNKEQLEKLS-----KF|DE
210 -----WN3LIEA----POIKEA-VLNGVSLED-DKREEFNKEQLEKLS-----KF|DE
210 -----WN3LIEA----POIKEA-VLNGVSLED-DKREEFNKEQLEKLS-----KF|DE
220 -----WN3LIEA----POIKEA-VLNGVSLED-DKREEFNKEQLEKLS-----KF|DE
127 -----WN3LIEA----POIKEA-VLNGVSLED-DKREEFNKEQLEKLS-----KF|DE
124 -----WN3LIEA----POIKEA-VLNGVSLED-DKREEFNKEQLEKLS-----KF|DE
124 -----WN3LIEA----POIKEA-VLNGVSLED-DKREEFNKEQLEKLS-----KF|DE
202 -----WN3LIEA----POIKEA-VLNGVSLED-DKREEFNKEQLEKLS-----KF|DE
124 -----WN3LIEA----POIKEA-VLNGVSLED-DKREEFNKEQLEKLS-----KF|DE
217 -----WN3LIEA----POIKEA-VLNGVSLED-DKREEFNKEQLEKLS-----KF|DE
242 -----WN3LIEA----POIKEA-VLNGVSLED-DKREEFNKEQLEKLS-----KF|DE
151 -----KLLHDADESSYLERYHTDF-VRAQAOISD-ADAKAKLKKMNAEAKLCT-----TFA|Q
27 -----ALCLTIEETFRVVERHWKPF-YKAGAKIPK-PEPERLSAQNVEFLAGLGA-----QFGQ

gi|85111610
 YKL134C
 Cre02.g073400|Cre02.g073400.tl.3
 Vocar20013694m.g|Vocar20013694m
 gi|5156501
 CMS132CT
 gi|268637658
 Esio033_0093
 tr|MC3Y6|M1C3Y6_SOLTU
 GSVIVG01018572001|GSVIVT01018572001
 GRMZM2G450659|GRMZM2G450659_T01
 LOC_Os06g47210.1
 Cucsa_251510|Cucsa_251510.1
 Glyma04g13088|Glyma04g13088.1
 Medtr3g009160|Medtr3g009160.1
 Bra029169|Bra029169
 Carubv10025983m.g|Carubv10025983m
 AT5051540
 Eucgr.K00152|Eucgr.K00152.1
 30147.t000467|30147.m014196
 Potri.015G129300.1|Potri.015G129300.1
 416778|416778
 Phpat.016G041000|Phpat.016G041000.1
 gi|71199788
 gi|1013533
 YOL057W
 gi|46801567
 CMS446C|CMS446C
 gi|4507491
 gi|14149738|ref|NP_065777
 LOC_Os01g67590|LOC_Os01g67590.1
 Bra004244|Bra004244
 Bra004078|Bra004078
 Carubv10019853m.g|Carubv10019853m
 AT1667690
 Eucgr.B03454|Eucgr.B03454.1
 Medtr3g086000.1|Medtr3g086000.1
 Glymalig37410|Glymalig37410.2
 Glyma18g01380|Glyma18g01380.1
 Cucsa_394790|Cucsa_394790.
 GSVIVG01010319001|GSVIVT01010319001
 29929.t000212|29929.m004700
 Potri.010G054500.1|Potri.010G054500.1
 164651|164651
 Phpat.018G066900|Phpat.018G066900.1
 Phpat.019G066000|Phpat.019G066000.1
 Esio023_0135
 85692|85692
 97633|97633
 119899|119899
 97030|97030
 Cre13.g572900|Cre13.g572900.t2.1
 Vocar20008539m.g|Vocar20008539m
 439159
 Eucgr.L02517.1|Eucgr.L02517.1
 GSVIVG01031425001|GSVIVT01031425001
 GRMZM2G133919|GRMZM2G133919_T01
 LOC_Os02g58340|LOC_Os02g58340.1
 PGSC003DMG400030613|PGSC003DMG40007866
 Carubv10000350m.g|Carubv10000350m
 Bra006067|Bra006067
 Bra028579|Bra028579
 Carubv10025914m.g|Carubv10025914m
 AT505652
 Bra024401|Bra024401
 Medtr5g030940|Medtr5g030940.1
 Glyma01g02480|Glyma01g02480.1
 Glyma09g33490|Glyma09g33490.1
 Cucsa_273340|Cucsa_273340.1
 GSVIVG010003850001|GSVIVT010003850001
 Eucgr.I00597|Eucgr.I00597.1
 Eucgr.I00594.1|Eucgr.I00594.1
 28333.t000012|28333.m000566
 Potri.007G004600|Potri.007G004600.1
 Potri.014G004600|Potri.014G004600.1
 Potri.014G010100|Potri.014G010100.1
 28658.m000032
 30484.m000014
 251 HMEP-----KIVYTTEWSRMMGMDPVEV-----KRMASMGKVY-VQTLSHQASIALRTVRDDDAHQLFMA
 237 HTDY-----PUSNSVKIDCKLDNSKVFSTFLKQL-----NKGKQGNYWPTFGYAVALLKSCENEMVRKELWTA
 82 ALTD-----SRKV-----G-----RAPTGGMGRFPVLPFSTVAGWAGEPNESVRKAVYAA
 153 ALTD-----SRKV-----G-----RAVRLGLRSVPEPSQVALVSEPHAEVRQWYAA
 190 NCDRIV-SVMP-----DQAKYQHQSQIYTPV-----DAEKSPGKFRE-----SNSLDRSKERKAYNT
 189 NTC-----V-F-----G-----QLEPKPDPVIFPISTDYLVAQGKLYIPKQYIPDPMNTHRSWHL
 200 QSFNSYHHPNWTLNIIHSSLV-----GHFLPLKHYO-----QLEPGOPAERFTLLDQGSLMSDWKRNRSGAQDQD
 205 NTC-----RMAAFQV-N-----RQDQHLSRSPR-----QSSKGSW-----GLRDKTKKEKGFRALIASSTLOGTFCG-----PAQGKQEVAVY
 189 NTC-----DGHVWDI-PASRKP-----SPTTRNL-----RGPRGST-----RAMFKTKKGFRHNTDQRTLSSILWTSDEEVKRMVYV
 262 NIIT-----DGHVWDI-PASRKP-----HHLHFLFKPIYCHNS-----STLBRGSS-----GSEDRNIKEKGFRHTEPGTLSSILWTSDEEVKRMVYV
 1 -----
 189 NWMN-----HDFGWDTI-YASRIPRPNMQRHKFSIHRKEP-----WGDDEOR-----NQMDWTKQGKLEWTFESTLSTALRWVSDDEBETHKQYLV
 4 NIIT-----DGGVWDI-PPLRMPNNLHIIHAKPIYRSSE-----SP-----GSRSSEKKEKGFRHNTDQRTLSSILWTSDEEVKRMVYV
 194 NIIV-----DGGVWDI-YASRIPRPNLHYL-----V-----LITKDL-----GSDMLLKKEKGFRHTNPOTLTSILWTSDEEVKRMVYV
 207 NIIV-----DGGVWDI-YASRIPRPNLHFLFKPIYKSEP-----LITKDIS-----ESKDMLVKEKGFRHTIDPRTLSDVLSILWTSDEEVKRMVYV
 184 NIAD-----DGHVWDI-PVSVRP-----HHLHLLTPVYVGSP-----RGYKGS-----HASKHRGFHTIDPRTLSSILWTSDEEVKRMVYV
 187 NIAD-----DGHVWDI-PASRIPR-----HHLVNPVYIYRSTE-----RGPGST-----RAMFKTKKGFRHNTDQRTLSSILWTSDEEVKRMVYV
 187 NIAD-----DGHVWDI-PASRIPR-----HHLHLLNPVYIYRSTS-----GGSRGST-----RSAHKSKQKGFRHTIDPRTLSSILWTSDEEVKRMVYV
 1 -MAV-----DMGSVVD-----ATCIP-----HHLHLLNPVYIYRSTS-----GMSMGST-----KSTSNNQEKGSIIHTDPAISLSSILWTSDEEV
 184 NIIS-----DGGVWDI-YASRIPR-----HHLHLLTPVYIYRSTS-----GASGSGR-----GPWNNAKEKGFRHTIDPRTLSSILWTSDEEVKRMVYV
 184 NIIS-----DGGVWDI-YASRIPR-----HHLHLLTPVYIYRSTS-----GSSSGSL-----GSWNNNKEKGFRHTDHTRILWSVHWWVAD
 202 NIIT-----DGGVWDI-YASRIPR-----HHLHLLTPVYIYRSTS-----SWK-----SKSEBDKPELLEFEEVYV
 213 NMQL-----SQGVDV-----FASKVP-----HHLHLLQPIRSHSK-----GRVQWSRSKFVAADDNSQWVQFV
 123 NMMR-----DQGQHLDI-FASVIP-----QHMMKPKIWMKE-----LITKDIS-----ESKDMLVKEKGFRHTIDPRTLSDVLSILWTSDEEV
 245 GWMM-----DQGTFWV-----DORVIRKDA-----HHLHLLTPVYIYRSTS-----EQNMSQWVQFV
 193 HNSDSE-----DQGT-----DPAEGDNGD-----AUGKQGKLEWTFESTLSTALRWVSDDEBETHKQYLV
 198 NLCEDT-----VLT-----T-----L-----E-----A-----ANQKQGKLEWTFESTLSTALRWVSDDEBETHKQYLV
 167 NLADDKT-----KMF-----SMEQCLNGK-----E-----F-----E-----E-----E-----E-----E-----E-----E-----E-----E
 397 NLNEEDT-----EHW-----SABEELACMF-----F-----E-----E-----E-----E-----E-----E-----E-----E-----E-----E
 181 NLNEEDT-----EHW-----TLCBLGCLQDLEI-----INSL-----E-----E-----E-----E-----E-----E-----E-----E-----E
 205 NLNEEDT-----EHW-----SKNECALGCLQDLEI-----DSL-----E-----E-----E-----E-----E-----E-----E-----E-----E
 202 NLNDSSM-----EJLL-----NEEDLACMF-----KEL-----E-----E-----E-----E-----E-----E-----E-----E-----E
 215 NLNEEDS-----CJFF-----TEABLACMF-----LEPQOSL-----D-----D-----D-----D-----D-----D-----D-----D
 216 NLNEEDS-----CJFF-----TEABLACMF-----LEPQOSL-----D-----D-----D-----D-----D-----D-----D-----D
 265 NLNEEDS-----CJFF-----TEDELACMF-----LEPQOSL-----D-----D-----D-----D-----D-----D-----D-----D
 211 NLNEEDS-----CJFF-----TEDELACMF-----LEPQNL-----D-----D-----D-----D-----D-----D-----D-----D
 212 NLNDPPCS-----YDLP-----SESELQGLP-----PEFLKNL-----D-----D-----D-----D-----D-----D-----D-----D
 214 NLNDPSSA-----FDP-----NESELQGLP-----PEFLKGL-----D-----D-----D-----D-----D-----D-----D-----D
 173 NLNDPSSR-----FDP-----TKAELGLP-----PEFLKGL-----D-----D-----D-----D-----D-----D-----D-----D
 214 NLNDDSK-----FDP-----TEAELGLP-----PEFLKGL-----D-----D-----D-----D-----D-----D-----D-----D
 214 NLNDDSK-----FDP-----SEAEELGLP-----KEPFESL-----D-----D-----D-----D-----D-----D-----D-----D
 193 NMDSDEST-----FILF-----SETELQGLP-----PEFLQSL-----D-----D-----D-----D-----D-----D-----D-----D
 215 NLNDDSST-----FILF-----SEAEELGLP-----PEFLKNL-----D-----D-----D-----D-----D-----D-----D-----D
 216 NMDSSES-----CJLF-----SEAEELGLP-----PEFLKSL-----D-----D-----D-----D-----D-----D-----D-----D
 103 NMDSSES-----CJLF-----NMDSSES-----CJLF-----SEAEELGLP-----PEFLKSL-----D-----D-----D-----D-----D
 373 NMNEENR-----VLP-----TDLV-----PEFLKIKL-----D-----D-----D-----D-----D-----D-----D-----D
 195 NMNEENR-----VLP-----SESELQGLP-----PEFLKIKL-----D-----D-----D-----D-----D-----D-----D-----D
 182 NVLDLTKM4PDSL-----E-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D
 135 NHLDTSR-----E-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D
 60 -----R-----E-----GKLV-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D
 175 NVLDTSRK-----E-----GKLV-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D
 120 -----BK-----E-----GKLV-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D
 254 NVLDATDKA-----KLLKLT-----OPBEVNGL-----F-----LGLLAQACTAN-----D-----D-----D-----D-----D-----D-----D
 242 NVLDATDKA-----KLLKLT-----DPAVAVLGFL-----F-----LGLLAQAOA-----D-----D-----D-----D-----D-----D-----D
 176 NVLDATKRVQQLKLV-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D-----D
 261 NVLDATKKF-----KLIT-----DKNDIEGLP-----FIAJGLGLAACTAV-----D-----D-----D-----D-----D-----D-----D
 171 NVLDATKKF-----KLIT-----DKNDIEGLP-----FIAJGLGLAACTAV-----D-----D-----D-----D-----D-----D-----D
 253 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATALGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 243 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATALGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 285 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATLGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 175 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATLGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 169 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATLGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 175 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATLGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 282 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATLGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 173 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATLGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 183 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATLGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 262 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATLGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 260 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATLGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 260 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATLGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 270 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATLGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 177 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATLGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 174 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATLGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 163 -----
 252 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATLGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 174 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATLGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 267 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATLGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 292 NVLDATKKF-----KLIT-----DKKEIEGLP-----FATLGLLAQACTAV-----D-----D-----D-----D-----D-----D-----D
 201 NVLEENASALV-----T-----T-----E-----E-----E-----E-----E-----E-----E-----E-----E-----E-----E
 77 NVLADEKSWAHL-----L-----E-----E-----E-----E-----E-----E-----E-----E-----E-----E-----E-----E

gi|85111610
 YKL134C
 Cre02.g073400|Cre02.g073400.tl.3
 Vocar20013694m.g|Vocar20013694m
 gi|51565051
 CMS15.1.CMS13.2CT
 gi|868637658
 Esi0033.0093
 tr|MC3Y6|M1C3Y6_SOLTU
 GSVIVG01018572001|GSVIVT01018572001
 GRMZM2G450659|GRMZM2G450659_T01
 LOC_Os06g47210|LOC_Os06g47210.1
 Cucsa_251510_1|Cucsa_251510.1
 Glyma04g13088|Glyma04g13088.1
 Medtr3g009160|Medtr3g009160.1
 Bra029169|Bra029169
 Carubv10025983m.g|Carubv10025983m
 AT5051540
 Eucgr.K00152|Eucgr.K00152.1
 30147.t000467|30147.m014196
 Potri.015G129300.1|Potri.015G129300.1
 416778.416778
 Phpat.016G041000|Phpat.016G041000.1
 gi|7119758
 gi|5101353
 YOL057W
 gi|46801567
 CMS446C|CMS446CT
 gi|4507491
 gi|14149738|ref|NP_065777
 LOC_Os01g67590|LOC_Os01g67590.1
 Bra004244|Bra004244
 Bra004078|Bra004078
 Carubv10019853m.g|Carubv10019853m
 AT1067690
 Eucgr.B03454|Eucgr.B03454.1
 Medtr3g086000|Medtr3g086000.1
 Glyma11g37410|Glyma11g37410.2
 Glyma18g01380|Glyma18g01380.1
 Cucsa_394790|Cucsa_394790.
 GSVIVG01010319001|GSVIVT01010319001
 29929.t000212|29929.m004708
 Potri.010G054500.1|Potri.010G054500.1
 164651|164651
 Phpat.018G066900|Phpat.018G066900.1
 3016|3016|066000|Phpat.019G066000.1
 Esi0023.0135
 85692|85692
 97633|97633
 119899|119899
 97030|97030
 Cre13.g572900|Cre13.g572900.t2.1
 Vocar20008539m.g|Vocar20008539m
 439159
 Eucgr.L02517|Eucgr.L02517.1
 GSVIVG01031425001|GSVIVT01031425001
 GRMZM2G133919|GRMZM2G133919_T01
 LOC_Os02g58340|LOC_Os02g58340.1
 PGSC0003DMG400030613|PGSC0003DMT40007866
 Carubv10000350m.g|Carubv10000350m
 Bra006067|Bra006067
 Bra028579|Bra028579
 Cucsa_273340|Cucsa_273340.1
 GSVIVG01003850001|GSVIVT01003850001
 Eucgr.I00597|Eucgr.I00597.1
 Eucgr.I00594|Eucgr.I00594.1
 28333.t000012|28333.m000566
 Potri.007G004600|Potri.007G004600.1
 Potri.014G004600|Potri.014G004600.1
 Potri.014G010100|Potri.014G010100.1
 28658.t000001|28658.m000032
 30484.t000001|30484.m000014
 401 DFWABSIHQAI-KS-RQKRSR-----LSSVFSIQLTVQG-GLSRIFTRIYGYRFLVEREP-----MPGETWHP-----DVRRLDVPSDV-----ECHVAVLWCDLFY-----
 401 DFWABSIHQAI-KS-RQKRSR-----LSSVFSIQLTVQG-GLSRIFTRIYGYRFLVEREP-----DEGETWSP-----DVRRLNVISE-----EGIPIIAIMCDLFE-----
 224 EYYASBARQAL---VTSPGA-----HLRTALESVLA-GVRTLRAVERHEVLGFLA-----AAEGWAA-----GVLRAEAHHD-----LGFLGTVYLDLGE-----
 323 GEMLHMLREPSAYDIAQ-VSQO-----SSPFTFTNSLWN-GFTSLTFCRVCYRLLIEPE-----ISGEWWS-----SGVWKLQAVLQE-----NNELGVITVDWSI-----
 249 - - - - - SLARK-----HQLFLGWDVSLE-VLSQFLGFLGFLGFLGFLRQL-----NGVRGVWHP-----SVCHAMLV-A-RNCNFGVCFPFLPA-----
 347 PFKKNOMSKRKEYYKSHSPL-----GKVKVLSLFLGFLGFLGFLQKLVIP-----NNSWSDKA-----SVKFLNLND-----ENKILJIMDLPW-----
 458 SWMGMXVGRE-----ONLDCG-----SWEYFVPGCL-----GMRMCRGCGC-----VQKLVLRHEQ-----EGPAGRSGGC-----VQKLVLRHEQ-----
 357 MFTWLMMGAAH-----VNLDSVV-----VASVFLPHOCIE-GLKVVLVSEFLCATERSPL-----APGEWSHP-----DVLKMBLHHPE-----EGDLYGVLIDGOS-----
 430 AMETGMKMSA-----VNLDSVV-----VASVFLPHOCIE-GLKVVLVSEFLCATERSPL-----NDGEWSHP-----DVLKMBLHHPD-----EGDLYGVLIDGVS-----
 93 DEIGMGMKSSV-----VNLDSVV-----IASVFLPSOCLK-GLNVLVLSEFLCATRPOIP-----GDEGEWSHP-----DVLKMBLHHPD-----EGDLYGVLIDGVS-----
 357 DEIGMGMKSSV-----VNLDSVV-----IASVFLPSOCLK-GLNVLVLSEFLCATRPOIP-----GDEGEWSHP-----DVLKMBLHHPD-----EGDLYGVLIDGVS-----
 167 AYVTKNMXSTA-----VNLDSVV-----IASVFLPSOCLK-GLNVLVLSEFLCATRPOIP-----APGEWSHP-----DVLKMBLHHPE-----EGDLYGVLIDGVS-----
 362 YYMTMKMSSS-----VNLDSVV-----VGSVFLPSOCLK-GLNVLVLSEFLCATRPOIP-----APGEWSHP-----DVLKMBLHHPE-----EGDLYGVLIDGVS-----
 375 AYVTTMNMSSS-----VNLDSVV-----VGSVFLPSOCLK-GLNVLVLSEFLCATRPOIP-----APGEWSHP-----DVLKMBLHHPE-----EGDLYGVLIDGVS-----
 349 YYTTSMMSSS-----NDWDTAV-----VASVFLPFCQCIE-GLKVVLVSEFLCATHTTPE-----APGEWSHP-----DVLKMBLHHPE-----EGDLYGVLIDGVS-----
 355 YYTTSMMSSS-----NDWDTAV-----VASVFLPFCQCIE-GLKVVLVSEFLCATHTTPE-----APGEWSHP-----DVLKMBLHHPE-----EGDLYGVLIDGVS-----
 355 YYTTSMMSSS-----NDWDTAV-----VASVFLPFCQCIE-GLKVVLVSEFLCATHTTPE-----APGEWSHP-----DVLKMBLHHPE-----EGDLYGVLIDGVS-----
 167 AYVTTAMKSSS-----VNLDSVV-----VASVFLPFCQCIE-GLKVVLVSEFLCATHTTPE-----APGEWSHP-----DVLKMBLHHPE-----EGDLYGVLIDGVS-----
 354 YYTGMKSSS-----VNLDSVV-----VASVFLPFCQCIE-GLKVVLVSEFLCATHTTPE-----APGEWSHP-----DVLKMAFHHPPE-----EGDLYGVLIDGVS-----
 370 YYTAMKSSS-----VNLDSVV-----VASVFLPFCQCIE-GLKVVLVSEFLCATHTTPE-----APGEWSHP-----DVLKMBLHHPE-----EGDLYGVLIDGVS-----
 373 AYVGMKSSS-----VNLDSVV-----IASVFLPSOCLK-GLNVLVLSEFLCATRPOIP-----APGEVWHS-----DVKWELRHST-----EGCBLGMGLDYS-----
 295 YYTMKMSISS-----VNLDSVV-----VGSVFLPSOCLK-GLNVLVLSEFLCATRPOIP-----APGEVWHS-----DVKWELRHST-----EGCBLGMGLDYS-----
 416 PWWCRKEABH-----YDWPPLD-----LMNHFPPWDSAIHQ-NIMVGIGHFNMD-----GIEKABA-----DVRIVKSVGHD-----FSGQHMYCRLYDPM-----
 352 YYTMMKMSSS-----VNLDSVV-----VGSVFLPSOCLK-GLNVLVLSEFLCATRPOIP-----APGEVWHS-----DVKWELRHST-----EGCBLGMGLDYS-----
 360 RGDWMMKMSSS-----VNLDSVV-----VGSVFLPSOCLK-GLNVLVLSEFLCATRPOIP-----APGEVWHS-----DVKWELRHST-----EGCBLGMGLDYS-----
 329 AYVNNMVLVOD-----HODNL-----VKEVPEEVWIK-QIINCYCIEHLLVNVKPEVE-----AVOFHPE-----DVMVYCVPT-----ADGKLMJHPE-----DFFP-----
 565 RYVMMYKSEQQ-----LODHTK-----IAEVPEEVWIK-QIINCYCIEHLLVNVKPEVE-----QOROFHPE-----DVLVPEVRA-----QNAALIGFVYDHP-----
 338 YYVMVNEET-----WVQDNL-----VKEVPEEVWIK-QIINCYCIEHLLVNVKPEVE-----GSAKME-----DVRIVLTERA-----EGCEWGKGFYLDLWP-----
 362 YYVMVNEET-----WVQDNL-----VKEVPEEVWIK-QIINCYCIEHLLVNVKPEVE-----DABHVNK-----SVVLYMVKCK-----AEGEVLCQFYLDLWP-----
 352 YYVMKBAEEL-----VNLDSVV-----VNLDSVV-----DABTTHD-----TBLVSYVND-----SSSDLGFLDPE-----GCKLLGFLYFYLDP-----
 362 YYVIMKVESEL-----FDDLFGD-----DABTTHD-----TBLVSYVND-----DVAEAWEDS-----GCKLLGFLYFYLDP-----
 367 YYVIMKVESEL-----FDDLFGD-----DABTTHD-----TBLVSYVND-----DVAEAWEDS-----GCKLLGFLYFYLDP-----
 416 YYVIMKVESEL-----FDDLFGD-----DABTTHD-----TBLVSYVND-----DVAFAWFDS-----GCKLLGFLYFYLDP-----
 367 YYVIMKVESEL-----FDDLFGD-----DABTTHD-----TBLVSYVND-----DVAFAWFDS-----GCKLLGFLYFYLDP-----
 363 YYVIMKVESEL-----FDDLFGD-----DABTTHD-----TBLVSYVND-----DVAFAWFDS-----GCKLLGFLYFYLDP-----
 365 YYVIMKVESEL-----VNLDSVV-----DABTTHD-----TBLVSYVND-----DVAFAWFDS-----GCKLLGFLYFYLDP-----
 324 YYVIMKVEQ-----VNLDSVV-----DABTTHD-----TBLVSYVND-----RADVMEG-----DVAFAWFDS-----GCKLLGFLYFYLDP-----
 365 YYVIMKVEQ-----VNLDSVV-----DABTTHD-----TBLVSYVND-----GADVMEC-----DVCVFSVFLDL-----GSELLGCVFPLDF-----
 365 YYVIMKVEQ-----VNLDSVV-----DABTTHD-----TBLVSYVND-----DABTTHD-----DVAEVWHY-----DVAEVWHY-----DSELLGCVFPLDF-----
 365 YYVIMKVEQ-----VNLDSVV-----DABTTHD-----TBLVSYVND-----DABTTHD-----DVAEVWHY-----DVAEVWHY-----DSELLGCVFPLDF-----
 343 YYVIMKVEQ-----VNLDSVV-----DABTTHD-----TBLVSYVND-----DABTTHD-----DVAEVWH-----DVAEVWH-----DSELLGCVFPLDF-----
 366 YYVIMKVEQ-----VNLDSVV-----DABTTHD-----TBLVSYVND-----DABTTHD-----DVAEVWH-----DVAEVWH-----DSELLGCVFPLDF-----
 355 YYVIMKVEAQ-----VNLDSVV-----DABTTHD-----TBLVSYVND-----DABTTHD-----DVAEVWH-----DVAEVWH-----DSELLGCVFPLDF-----
 254 YYVIMKVEAQ-----VNLDSVV-----DABTTHD-----TBLVSYVND-----DABTTHD-----DVAEVWH-----DVAEVWH-----DSELLGCVFPLDF-----
 524 YYVIMKVEAD-----VNLDSVV-----DABTTHD-----TBLVSYVND-----DABTTHD-----DVAEVWH-----DVAEVWH-----DSELLGCVFPLDF-----
 316 YYVIMKVEAD-----VNLDSVV-----DABTTHD-----TBLVSYVND-----DABTTHD-----DVAEVWH-----DVAEVWH-----DSELLGCVFPLDF-----
 384 YYVIMKVEEL-----VNLDSVV-----DABTTHD-----TBLVSYVND-----DABTTHD-----DVAEVWH-----DVAEVWH-----DSELLGCVFPLDF-----
 303 PYWTERERAK-----LDNDS-----DABTTHD-----TBLVSYVND-----DABTTHD-----DVAEVWH-----DVAEVWH-----DSELLGCVFPLDF-----
 221 PYWTERERAK-----LDNDS-----DABTTHD-----TBLVSYVND-----DABTTHD-----DVAEVWH-----DVAEVWH-----DSELLGCVFPLDF-----
 344 PYWTERERAK-----LDNNDASFPSPKAQPYVNM-----DABTTHD-----TBLVSYVND-----DABTTHD-----DVAEVWH-----DVAEVWH-----DSELLGCVFPLDF-----
 284 PYWTERERAK-----LDNNDDE-----DABTTHD-----TBLVSYVND-----DABTTHD-----DVAEVWH-----DVAEVWH-----DSELLGCVFPLDF-----
 421 PYWTERERAK-----LDNNDDE-----DABTTHD-----TBLVSYVND-----DABTTHD-----DVAEVWH-----DVAEVWH-----DSELLGCVFPLDF-----
 409 SWMAERLRESK-----YNIISDEE-----DABTTHD-----TBLVSYVND-----DABTTHD-----DVAEVWH-----DVAEVWH-----DSELLGCVFPLDF-----
 345 TWSERLRED-----YDNEEEE-----DABTTHD-----TBLVSYVND-----DABTTHD-----DVAEVWH-----DVAEVWH-----DSELLGCVFPLDF-----
 340 NFWFGERLRELK-----YDNEEEE-----LRFPLSLPKVIM-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNN-----DVFYFQCVKDS-----LGIIIAFYFPLPM-----
 422 TFWSERLRESK-----YDNEEEE-----LRFPLSLPKVMD-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNS-----DVFYFQCVKDS-----SSSVAVAFYFPLDVS-----
 412 TFWSERLRESK-----YDNEEEE-----LRFPLSLPKVMD-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNS-----DVFYFQCVKDS-----SNSDVAVAFYFPLDVS-----
 454 TFWSERLRESK-----YDNEEEE-----LRFPLSLPKVMD-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNS-----DVFYFQCVKDS-----SNSDVAVAFYFPLDVS-----
 344 TFWSERLRESK-----YDNEEEE-----LRFPLSLPKVMD-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNS-----DVFYFQCVKDS-----SNSDVAVAFYFPLDVS-----
 454 TFWSERLRESK-----YDNEEEE-----LRFPLSLPKVMD-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNS-----DVFYFQCVKDS-----SNSDVAVAFYFPLDVS-----
 454 TFWSERLRESK-----YDNEEEE-----LRFPLSLPKVMD-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNS-----DVFYFQCVKDS-----SNSDVAVAFYFPLDVS-----
 454 TFWSERLRESK-----YDNEEEE-----LRFPLSLPKVMD-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNS-----DVFYFQCVKDS-----SNSDVAVAFYFPLDVS-----
 352 TFWSERLRESK-----YDNEEEE-----LRFPLSLPKVMD-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNS-----DVFYFQCVKDS-----SNSDVAVAFYFPLDVS-----
 431 TFWSERLRESK-----YDNEEEE-----LRFPLSLPKVMD-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNS-----DVFYFQCVKDS-----SNSDVAVAFYFPLDVS-----
 429 TFWSERLRESK-----YDNEEEE-----LRFPLSLPKVMD-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNS-----DVFYFQCVKDS-----SNSDVAVAFYFPLDVS-----
 429 TFWSERLRESK-----YDNEEEE-----LRFPLSLPKVMD-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNS-----DVFYFQCVKDS-----SNSDVAVAFYFPLDVS-----
 344 TFWSERLRESK-----YDNEEEE-----LRFPLSLPKVMD-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNS-----DVFYFQCVKDS-----SNSDVAVAFYFPLDVS-----
 344 TFWSERLRESK-----YDNEEEE-----LRFPLSLPKVMD-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNS-----DVFYFQCVKDS-----SNSDVAVAFYFPLDVS-----
 295 KFWSERLRESK-----YDNEEEE-----LRFPLSLPKVMD-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNS-----DVFYFQCVKDS-----SGNPIAFYFPLDVS-----
 421 GFWAERLRESK-----YDNEEEE-----LRFPLSLPKVMD-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNS-----DVFYFQCVKDS-----SGNPIAFYFPLDVS-----
 343 SFWAERLRESK-----YDNEEEE-----LRFPLSLPKVMD-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNS-----DVFYFQCVKDS-----SGNPIAFYFPLDVS-----
 436 GFWAERLRESK-----YDNEEEE-----LRFPLSLPKVMD-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNS-----DVFYFQCVKDS-----SGNPIAFYFPLDVS-----
 461 GFWAERLRESK-----YDNEEEE-----LRFPLSLPKVMD-----GLLNLAKEMLFEDDVFPAD-----GLA-----PVWNS-----DVFYFQCVKDS-----SGNPIAFYFPLDVS-----
 364 AFYSDKVRERAK-----FNFQJQNC-----LRFPLSEFLNSVLTNCVYEAANFKYGTGTFKRR-----DPL-----PVWDP-----DVRVWDVPEA-----NGKWLIAFIDYWA-----
 240 RHVAKERAK-----FDPSSET-----LRFPLSEFLNSVLTNCVYEAANFKYGTGTFKRR-----GLA-----PVWHP-----DVRVFEIRDR-----SDKLVALFLGDFY-----

gi|85111610
 YKL134C
 Cre02.g073400|Cre02.g073400.tl.3
 Vocar20013694m.g|Vocar20013694m
 gi|5156501
 CMS13.g0113M132CT
 gi|268637658
 Esi0033.0093
 tr|M1C3Y6|M1C3Y6_SOLTU
 GSVITVG01018572001|GSVITVT01018572001
 GRMZM2G450659|GRMZM2G450659_T01
 LOC_Os06g47210|LOC_Os06g47210.1
 Cucsa_251510_0|Cucsa_251510.1
 Glyma04g13088|Glyma04g13088.1
 Medtr3g009160|Medtr3g009160.1
 Bra029169|Bra029169
 Carubv10025983m.g|Carubv10025983m
 AT5051540
 Eucgr.K00152|Eucgr.K00152.1
 30147.t000467|30147.m014196
 Potri.015G129300|Potri.015G129300.1
 416778|416778
 Phpat.016G041000|Phpat.016G041000.1
 gi|2159758
 gi|2159353
 YOL057W
 gi|46801567
 CMS446C|CMS446CT
 gi|4507491
 gi|14149738|ref|NP_065777
 LOC_Os01g67590|LOC_Os01g67590.1
 Bra004244|Bra004244
 Bra004078|Bra004078
 Carubv10019853m.g|Carubv10019853m
 AT1667690
 Eucgr.B03454|Eucgr.B03454.1
 Medtr3g086000|Medtr3g086000.1
 Glyma11g37410|Glyma11g37410.2
 Glyma18g01380|Glyma18g01380.1
 Cucsa_394790|Cucsa_394790.
 GSVITVG01010319001|GSVITVT01010319001
 29929..t000212|29929..m004709
 Potri.016G054500|Potri.016G054500.1
 164651|164651
 Phpat.018G066900|Phpat.018G066900.1
 Phpat.019G066000|Phpat.019G066000.1
 Esi0023.0135
 85692|85692
 97633|97633
 119899|119899
 97030|97030
 Cre13.g572900|Cre13.g572900.t2.1
 Vocar20008539m.g|Vocar20008539m
 439159
 Eucgr.L02517|Eucgr.L02517.1
 GSVITVG01031425001|GSVITVT01031425001
 GRMZM2G133919|GRMZM2G133919_T01
 LOC_Os02g58340|LOC_Os02g58340.1
 PGSC0003DMG400030613|PGSC0003DMT40007866
 Carubv10000350m.g|Carubv10000350m
 Bra006067|Bra006067
 Bra028579|Bra028579
 Carubv10025914m.g|Carubv10025914m
 AT505652
 Bra024401|Bra024401
 Medtr5g030940|Medtr5g030940.1
 Glyma01g02480|Glyma01g02480.1
 Glyma09g33490|Glyma09g33490.1
 Cucsa_273340|Cucsa_273340.1
 GSVITVG01003850001|GSVITVT01003850001
 Eucgr.I00597|Eucgr.I00597.1
 Eucgr.I00594|Eucgr.I00594.1
 28333..t000012|28333..m000566
 Potri.007G004600|Potri.007G004600.1
 Potri.014G004600|Potri.014G004600.1
 Potri.014G010100|Potri.014G010100.1
 28658..t000001|28658..m000032
 30484..t000001|30484..m000014

483 -----RPLKSPNPAHFTLRCRSHELSPEHIA-----ETAHTQAENP-
 484 -----RQCKTSNPAHFTVCCSQQIYPSSTD-----FSTI-----
 305 -----GGSGGRSGQTHTTAKYTTTRHRIDVVLLTYPDPRGKPSAVTFPTCGRQLPPSSS-----AALAS-----
 376 -----RQGKYPSAVTFPTCGRQLPPSSS-----
 411 -----RPEKAVGDCHYTVCRSQ-----
 320 -----RQGKMPGAHYTAIRGSR-----
 441 -----RQPKATGCVNPFGLGFKKFILKN-----NLKNN-----
 543 -----RQGKMPGAHYTAIRGSR-----
 511 -----RQGKXPKGCCAHFAIKGGR-----
 180 -----RQGKXPKGCCAHFAIKGGR-----
 438 -----RQGKXPKGCCAHFAIKGGR-----
 241 -----RQGKXPKGCCAHFAIKGGR-----
 443 -----RQGKXPKGCCAHFAIKGGR-----
 456 -----RQGKXPKGCCAHFAIKGGR-----
 419 -----RQGKXPKGCCAHFAIKGGR-----
 436 -----RQGKXPKGCCAHFAIRGGR-----
 436 -----RQGKXPKGCCAHFAIRGGR-----
 248 -----RQGKXPKGCCAHFAIKGGR-----
 433 -----RQGKXPKGCCAHFAIKGGR-----
 451 -----RQGKXPKGCCAHFAVKGGCR-----
 454 -----RKEKXPKNCNAHFTLKGGR-----
 376 -----RQGKXPKGCCAHFAIKGGR-----
 493 -----RQNKRGWNVMAARPESE-----
 447 -----RQGKXPKGCCAHFAIRGGR-----
 446 -----RQGKXPKGCCAHFAIRGGR-----
 410 -----RQGKXPKGCCAHFAIRGGR-----
 645 -----RQGKXPKGCCAHFAIRGGR-----
 418 -----RQGKXPKGCCAHFAIRGGR-----
 442 -----RQGKXPKGCCAHFAIRGGR-----
 432 -----RQGKXPKGCCAHFAIRGGR-----
 446 -----RQGKXPKGCCAHFAIRGGR-----
 447 -----RQGKXPKGCCAHFAIRGGR-----
 496 -----RQGKXPKGCCAHFAIRGGR-----
 447 -----RQGKXPKGCCAHFAIRGGR-----
 443 -----RQGKXPKGCCAHFAIRGGR-----
 445 -----RQGKXPKGCCAHFAIRGGR-----
 381 -----RQGKXPKGCCAHFAIRGGR-----
 445 -----RQGKXPKGCCAHFAIRGGR-----
 441 -----RQGKXPKGCCAHFAIRGGR-----
 423 -----RQGKXPKGCCAHFAIRGGR-----
 446 -----RQGKXPKGCCAHFAIRGGR-----
 445 -----RQGKXPKGCCAHFAIRGGR-----
 335 -----RQGKXPKGCCAHFAIRGGR-----
 604 -----RQGKXPKGCCAHFAIRGGR-----
 426 -----RQGKXPKGCCAHFAIRGGR-----
 465 -----RQGKXPKGCCAHFAIRGGR-----
 386 -----RQGKXPKGCCAHFAIRGGR-----
 301 -----RQGKXPKGCCAHFAIRGGR-----
 429 -----RQGKXPKGCCAHFAIRGGR-----
 365 -----RQGKXPKGCCAHFAIRGGR-----
 500 -----RQGKXPKGCCAHFAIRGGR-----
 488 -----RQGKXPKGCCAHFAIRGGR-----
 425 -----RQGKXPKGCCAHFAIRGGR-----
 420 -----RQSEKRGGAWDVVVFGNGSTFS-----
 502 -----RQSEKRGGAWNVVVFSRSRVLA-----
 492 -----RQSEKRGGAWNVVVFSRSRVLA-----
 534 -----RQSEKRGGAWNVVVFSRSRVLA-----
 424 -----RQSEKRDGAWDDEVSRSRVMA-----
 418 -----RQSEKRDGAWDDEVSRSRVMA-----
 424 -----RQSEKRGGAWNVVVFSRSRVMA-----
 512 -----RQSEKRGGAWNVVVFSRSRVMA-----
 432 -----RQSEKRGGAWNVVVFSRSRVMA-----
 511 -----RQSEKRGGAWNVVVFSRSRVMA-----
 509 -----RQSEKRGGAWNVVVFSRSRVMA-----
 509 -----RQSEKRGGAWNVVVFSRSRVMA-----
 519 -----RQSEKRGGAWNVVVFSRSRVMA-----
 426 -----RQSEKRGGAWNVVVFSRSRVMA-----
 423 -----RQSEKRGGAWNVVVFSRSRVMA-----
 375 -----RQSEKRGGAWNVVVFSRSRVMA-----
 501 -----RQSEKRGGAWNVVVFSRSRVMA-----
 423 -----RQSEKRGGAWNVVVFSRSRVMA-----
 516 -----RQSEKRGGAWNVVVFSRSRVMA-----
 541 -----RQSEKRGGAWNVVVFSRSRVMA-----
 444 -----RQSEKRGGAWNVVVFSRSRVMA-----
 319 -----RQSEKRGGAWNVVVFSRSRVMA-----
 -----RSSNRQGGAWNNAVVSQSSL-----
 -----RSSNRQGGAWNNAVVSQSSL-----
 -----RSSNRQGGAWSFQSQSHKLPL-----

gi 85111610	518	-HVLIPSF-
YKL134C	513	
Cre02.g073400 Cre02.g073400.tl.3	335	
Vocar20013694m.g Vocar20013694m	431	
gi 5156551	429	
CMS132.CMS132CT	338	
gi 868637658	473	
Esi0033_0093	560	
tri M1C3Y6_M1C3Y6_SOLTU		
GSVITVG01018572001 GSVITV01018572001	529	
GRMZM2G450659 GRMZM2G450659_T01	198	
LOC_Os06g47210 LOC_Os06g47210.1	456	
Cucsa_251510_0 Cucsa_251510.1	241	
Glyma04g13088 Glyma04g13088.1	461	
Medtr3g009160 Medtr3g009160.1	474	
Bra029169 Bra029169	437	
Carubv10025983m.g Carubv10025983m	454	
AT5051540	454	
Eucgr_K00152 Eucgr_K00152.1	266	
30147.t000467 30147.m014196	451	
Potri_0150129300 Potri_015G129300.1	469	
416778_416778	472	
Phpat_016G041000 Phpat_016G041000.1	394	
gi 71519758	514	
gi 1010353	446	
YGL057W	465	
gi 46801567	429	
CMS446C CMS446CT	679	-TPSTGTSHVH--RASET
gi 4507491	437	
gi 14149738 ref NP_065777	461	
LOC_Os01g67590 LOC_Os01g67590.1	451	
Bra004244 Bra004244	465	
Bra004078 Bra004078	466	
Carubv10019853m.g Carubv10019853m	515	
AT1067690	466	
Eucgr_B03454 Eucgr_B03454.1	462	
Medtr3g086000 Medtr3g086000.1	464	
Glymallg37410 Glymallg37410.2	399	
Glymal18g01380 Glymal18g01380.1	464	
Cucsa_394790 Cucsa_394790.	460	
GSVITVG01010319001 GSVITV01010319001	442	
29929_t000212 29929_m004709	465	
Potri_0106G054500 Potri_010G054500.1	454	
164651_164651	353	
Phpat_018G066900 Phpat_018G066900.1	603	
Phpat_018G066000 Phpat_019G066000.1	445	
Esi0023_0135	487	
85692_85692	403	
97633_97633	323	
119899_119899	451	
97030_97030	387	
Cre13_g572900 Cre13_g572900.t2.1	522	
Vocar20008539m.g Vocar20008539m	510	
439159	447	
Eucgr_L02517 Eucgr_L02517.1	442	
GSVITVG01031425001 GSVITV01031425001	524	
GRMZM2G133919 GRMZM2G133919_T01	514	
LOC_Os02g58340 LOC_Os02g58340.1	556	
PGSC0003DMG400030613 PGSC0003DMT40007866	556	
Carubv10000350m.g Carubv10000350m	446	
Bra006067_Bra006067	440	
Bra02857_Bra02857	446	
Carubv10025914m.g Carubv10025914m	554	
AT506562	544	
Brad24401_Bra024401	454	
Medtr5g030940 Medtr5g030940.1	533	
Glyma01g02480 Glyma01g02480.1	531	
Glyma09g33490 Glyma09g33490.1	531	
Cucsa_273340 Cucsa_273340.1	541	
GSVITVG01003850001 GSVITV01003850001	506	IRGIEWDAVELPSQPMENWCYHRYFSNQKKLIYFFVLKSNRRNYPISHCORSWVVLFLAKMLPGIDIEPADGLAPVNNDVRFYCVKDTAGSPIAYFYDPYSRSEK
Eucgr_I00597 Eucgr_I00597.1	445	
Eucgr_I00594 Eucgr_I00594.1	397	
28333_t000012 28333.m000566	523	
Potri_007G004600 Potri_007G004600.1	445	
Potri_014G004600 Potri_014G004600.1	538	
Potri_014G010100 Potri_014G010100.1	563	
28658_t000001 28658.m000032	463	
30484_t000001 30484.m000014	340	

gi|85111610
 YKL134C
 Cre02.g073400|Cre02.g073400.tl.3
 Vocar20013694m.g|Vocar20013694m
 gi|51565051
 CMS15.1.CMS13.2CT
 gi|268637558
 Esi0033.0093
 tr|MIC3Y6|MIC3Y6_SOLTU
 GSVITVG01018572001|GSVITVT01018572001
 GRMZM2G450659|GRMZM2G450659_T01
 LOC_Os06g47210|LOC_Os06g47210.1
 Cucsa_251510_0|Cucsa_251510.1
 Glyma04g13088|Glyma04g13088.1
 Medtr3g009160|Medtr3g009160.1
 Bra029169|Bra029169
 Carubv10025983m.g|Carubv10025983m
 AT5051540
 Eucgr.K00152|Eucgr.K00152.1
 30147.t000467|30147.m01419
 Potri.015G129300|Potri.015G129300.1
 416778|416778
 Phpat.016G041000|Phpat.016G041000.1
 gi|2159758
 gi|2159353
 YOL057W
 gi|46801567
 CMS446C|CMS446CT
 gi|4507491
 gi|14149738|ref|NP_065777
 LOC_Os01g67590|LOC_Os01g67590.1
 Bra004244|Bra004244
 Bra004078|Bra004078
 Carubv10019853m.g|Carubv10019853m
 AT1667690
 Eucgr.B03454|Eucgr.B03454.1
 Medtr3g086000|Medtr3g086000.1
 Glyma11g37410|Glyma11g37410.2
 Glyma18g01380|Glyma18g01380.1
 Cucsa_394790|Cucsa_394790.
 GSVITVG01010319001|GSVITVT01010319001
 29929.t000212|29929.m004700
 Potri.016G054500|Potri.016G054500.1
 164651|164651
 Phpat.018G066900|Phpat.018G066900.1
 Phpat.019G066000|Phpat.019G066000.1
 Esi0023.0135
 85692|85692
 97633|97633
 119899|119899
 97030|97030
 Cre13.g572900|Cre13.g572900.t2.1
 Vocar20008539m.g|Vocar20008539m
 439159
 Eucgr.L02517|Eucgr.L02517.1
 GSVITVG01031425001|GSVITVT01031425001
 GRMZM2G133919|GRMZM2G133919_T01
 LOC_Os02g58340|LOC_Os02g58340.1
 PGSC0003DMG400030613|PGSC0003DMG40007866
 Carubv10000350m.g|Carubv10000350m
 Bra006067|Bra006067
 Bra028579|Bra028579
 Cucsa_251510_4m.g|Carubv10025914m
 AT505652|AT505652
 Bra024401|Bra024401
 Medtr5g030940|Medtr5g030940.1
 Glyma01g02480|Glyma01g02480.1
 Glyma09g33490|Glyma09g33490.1
 Cucsa_273340|Cucsa_273340.1
 GSVITVG01003850001|GSVITVT01003850001
 Eucgr.I00597|Eucgr.I00597.1
 Eucgr.I00594|Eucgr.I00594.1
 28333.t000012|28333.m000566
 Potri.007G004600|Potri.007G004600.1
 Potri.014G004600|Potri.014G004600.1
 Potri.014G010100|Potri.014G010100.1
 28658.t000001|28658.m000032
 30484.t000001|30484.m000014

525 - E S A E F A A N D G M A Y S R S Q D C A I K O L P T I A L V C D F P Q Q S H N - - - - - R P A - - - L L S F F - - - - - Q L E T L F H E M G H A - - - - - I H S
 513 - - - - - Q V G E N P D C T Y P Q L P V I S L V C N C F I L I A - - - - - S K K S L C F Q L S - - - - - E V E T L F H E M G H A - - - - - M H S
 335 - - - - - N A R R R G G T G G G Q Q R Q L P V M A L L A S A G R C P S - - - - - T G V P A L T Y R - - - - - E V R V I L H E L G H C - - - - - V H N
 431 - - - - - S S S S R G D G N Q Q L P V M A L L A S A G T C P A - - - - - S Q G F A M S Y R - - - - - E V R V I L H E L G H C - - - - - C H N
 429 - - - - - L S G G T Q M P T I V L S L G L V D G H S S - - - - - Q W R N S R V S P H - - - - - S A E T M F H E G H A - - - - - M H S
 338 - - - - - L R G G S P O L S A I V C D P P P I I T - - - - - R K A G M O H Y - - - - - Q L E T L F H E G H A - - - - - J H T
 473 - - - - - L K N E D D D D E Y N D E S T C E C I T C V Q N N F N - - - - - R F L K S R D H S - - - - - Q L E T L F H E G H A - - - - - J H T
 560 - - - - - T O L V T V V U C N P L P P P D D G G N A K Q S K E R S G K D G D M R H S - - - - - Q L E T L F H E G H A - - - - - J H T
 529 - - - - - L S T E T Y Q O L P I E K I E N Q I S P - - - - - S A V R I N H W - - - - - I L L * - - - - - Q L E T L F H E G H A - - - - - J H S
 198 - - - - - L S D S N N Q Q L I I N Q F E G A C R - - - - - I T A R E N H G - - - - - D V E T L F H E G H A - - - - - J H S
 456 - - - - - L Q D S N Y Q I V I V A L V C N P F S S S X - - - - - I T A R E N H W - - - - - E V E T L F H E G H A - - - - - J H S
 241 - - - - - I S Q T E Y Q O L P I V I V A L V C N F P G S R N P - - - - - S A V R I N H W - - - - - E V E T L F H E G H A - - - - - J H S
 461 - - - - - I S Q T E Y Q O L P I V I V A L V C N F P G S R N P - - - - - S A V R I N H W - - - - - E V E T L F H E G H A - - - - - J H S
 474 - - - - - I S Q T E Y Q O L P I V I V A L V C N F P G S R N P - - - - - S A V R I N H W - - - - - E V E T L F H E G H A - - - - - J H S
 437 - - - - - I S Q T E Y Q O L P I V I V A L V C N F P R A S D S - - - - - S V V K L N H S - - - - - E V E T L F H E G H A - - - - - J H S
 454 - - - - - I S Q T E Y Q O L P I V I V A L V C N F P R A R D S - - - - - L V V K L N H S - - - - - E V E T L F H E G H A - - - - - J H S
 454 - - - - - I S Q T E Y Q O L P I V I V A L V C N F P R A C D S - - - - - S I V K L N H S - - - - - E V E T L F H E G H A - - - - - J H S
 266 - - - - - I S Q T E Y Q O L P I V I V A L V C N F P G S H N S - - - - - S L A R E N H F - - - - - E V E T L F H E G H A - - - - - J H S
 451 - - - - - F S T D Y Q O L P V V A L V C N F P G S R S S - - - - - S N V R I N H W - - - - - E V E T L F H E G H A - - - - - J H S
 469 - - - - - I S T E T Y Q O L P V V A L V C N F P G S P G S - - - - - S T V R I N H G - - - - - E V E T L F H E G H A - - - - - J H S
 472 - - - - - T S T E T Y Q O L P V V A L V C N F P K P L S S - - - - - M S A L L H W W - - - - - E V E N L F H E G H A - - - - - J H S
 394 - - - - - I S E S D Y Q O L P V V A L V C N F P T P P C N - - - - - T P I L N H W - - - - - E V E T L F H E G H A - - - - - J H S
 514 - - - - - R G L D K I V Y F I G S A I A P T S N - - - - - G P S L L H Q - - - - - Q L O Q I L L H F G R S - - - - - V O L
 446 - - - - - D E T T E R E S C E P T V A L V C N F P E T T I D - - - - - K F S P L L H Q - - - - - H V V L F H E G H A - - - - - I H D
 465 - - - - - A D G E R O V P V A A M V C N F P E T P T - - - - - T P O L L H D - - - - - H V V L F H E G H A - - - - - I H D
 429 - - - - - A D G E R O V P V A A M V C N F P E T P T - - - - - T P O L L H D - - - - - H V V L F H E G H A - - - - - M H N
 694 - - - - - A T N A L Q L N A M H S A D G E R Q U P V V A A M V C N F P K S S C G - - - - - R P S L L H E - - - - - E V V N L F H E G H V - - - - - M H H
 437 - - - - - Q D G S Q I L A A M V C N F P K S S C G - - - - - A P S L L H D - - - - - E V E T W F H E G H V - - - - - M H H
 464 - - - - - I S G A R Q I P V A L I S Q O C K Q D S E F - - - - - S C P L L H D - - - - - E V E T W F H E G H V - - - - - M H H
 399 - - - - - S G A H Q I P V A L I S Q O C K D A D G - - - - - S C Q L L D F S - - - - - E V E T W F H E G H V - - - - - V O V
 464 - - - - - S N G A Q I P V A L I S Q O C K D A D G - - - - - S C Q L L D F S - - - - - E V E T W F H E G H V - - - - - V O V
 460 - - - - - S N G T R Q I P V A L I A Q L A K D G - - - - - H A C L M R F T - - - - - E V V N L F H E G H V - - - - - V O H
 442 - - - - - S N G A R Q I P V A L I A Q F K D G S G - - - - - E A V P L Q F S - - - - - E V V N L F H E G H V - - - - - V O H
 29929.t000212|29929.m004700
 Potri.016G054500|Potri.016G054500.1
 164651|164651
 Phpat.018G066900|Phpat.018G066900.1
 Phpat.019G066000|Phpat.019G066000.1
 445 - - - - - I S C A R Q I P V A L I S Q O C K D E F - - - - - S C P L L H F S - - - - - E V E T W F H E G H V - - - - - V O H
 487 - - - - - K P S L M F R - - - - - K P S L M F R - - - - - E V E T W F H E G H V - - - - - L O H
 403 - - - - - R S R A L A P E C C D I R L P A C I V C N Q F P P V G D - - - - - N P S L M F R D - - - - - E V E T W F H E G H A - - - - - L O H
 323 - - - - - O K G G V V R L P V A H V C N Q N P P V G D - - - - - Q P S L M F H A D K F D G A L M I E T L Q U T H L P F H E G H A - - - - - L O H
 451 - - - - - O K G G V V R L P V A H V C N Q N P P V G D - - - - - Q P S L M F F Y E - - - - - V V T M L F H E G H A - - - - - L O H
 387 - - - - - O K G G V V R L P V A H V C N Q N P P V G D - - - - - Q P S L M F F Y E - - - - - V V T M L F H E G H A - - - - - L O H
 522 - - - - - P P G C A V R L P V A H V C N Q N P P V G D - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 510 - - - - - P P G S A V R L P V A H V C N Q N P P V G G - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 447 - - - - - P R O S S V R L P V A H V C N Q N P P V G N - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 442 - - - - - C D G A S P R L P I A H V C N Q N P P V G D - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 524 - - - - - R N G C L A A R L P V A H V C N Q N P P V G E - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 514 - - - - - R N G C S P V R L P V A H V C N Q N P P V G D - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 556 - - - - - R D G C S N A R L P V A H V C N Q N P P V G D - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 446 - - - - - Q K G S S V R L P V A H V C N Q N P P V G D - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 440 - - - - - Q K G S S V R L P V A H V C N Q N P P V G D - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 446 - - - - - Q K G S S V R L P V A H V C N Q N P P V G D - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 554 - - - - - Q K G S S V R L P V A H V C N Q N P P V G D - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 654 - - - - - Q K G S S V R L P V A H V C N Q N P P V G D - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 454 - - - - - Q K G S S V R L P V A H V C N Q N P P V G D - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 533 - - - - - P D G N S S R L P V A H V C N Q N P P V G S - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 531 - - - - - R D G T S A R L P V A H V C N Q N P P V G N - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 531 - - - - - R D G T S A R L P V A H V C N Q N P P V G N - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 541 - - - - - Q D G A P A R L P I A H V C N Q N P P V G E - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 616 - - - - - R G G A N M D E V V A R S R A L S R D C T K A R L P I A H V C N Q N P P V G N - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 445 - - - - - R D G A S P R L P I A H V C N Q N P P V G N - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 397 - - - - - P D G C A S T R L P I A H V C N Q N P P V G T - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 523 - - - - - R N G C T A P R L P V A H V C N Q N P P V G D - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 445 - - - - - R N G C T A P R L P V A H V C N Q N P P V G T - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 538 - - - - - P N G C T A P R L P I A H V C N Q N P P V G D - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 563 - - - - - P N G C T A P R L P I A H V C N Q N P P V G D - - - - - K P S L M F F R - - - - - E V E T W F H E G H A - - - - - L O H
 463 - - - - - M G T H P V V A N H N I F P K P F G - - - - - E P V L L T Y D - - - - - E V E T W F H E G H A - - - - - L H G
 340 - - - - - K N G C H V G E L P I I Y N V C N F P A K P A E G - - - - - R P A L L E S D - - - - - D A R P L F H E G H A - - - - - L H G

gi|85111610
 YKL134C
 Cre02.g073400|Cre02.g073400.tl.3
 Vocar20013694m.g|Vocar20013694m
 gi|5156551
 CMS15.1.CMS15.132CT
 gi|5268637658
 Esi0033.0093
 tr|M1C3Y6|M1C3Y6_SOLTU
 GSVIVG01018572001|GSVIVT01018572001
 GRMZM2G450659|GRMZM2G450659_T01
 LOC_Os06g47210|LOC_Os06g47210.1
 Cucsa_251510_1|Cucsa_251510.1
 Glyma04g13088|Glyma04g13088.1
 Medtr3g009160|Medtr3g009160.1
 Bra029169|Bra029169
 Carubv10025983m.g|Carubv10025983m
 AT5051540
 Eucgr.K00152|Eucgr.K00152.1
 30147.t000467|30147.m014196
 Potri.015G129300|Potri.015G129300.1
 416778|416778
 Phpat.016G041000|Phpat.016G041000.1
 gi|7119758
 gi|7119353
 YOL057W
 gi|46801567
 CMS446C|CMS446C
 gi|4507491
 gi|14149738|ref|NP_065777
 LOC_Os01g67590|LOC_Os01g67590.1
 Bra004244|Bra004244
 Bra004078|Bra004078
 Carubv10019853m.g|Carubv10019853m
 AT1667690
 Eucgr.B03454|Eucgr.B03454.1
 Medtr3g086000|Medtr3g086000.1
 Glyma11g37410|Glyma11g37410.2
 Glyma18g01380|Glyma18g01380.1
 Cucsa_394790|Cucsa_394790.
 GSVIVG01010319001|GSVIVT01010319001
 29929.t000212|29929.m004708
 Potri.010G054500|Potri.010G054500.1
 164651|164651
 Phpat.018G066900|Phpat.018G066900.1
 Potri.019G066000|Phpat.019G066000.1
 Esi0023.0135
 85692|85692
 97633|97633
 119899|119899
 97030|97030
 Cre13.g572900|Cre13.g572900.t2.1
 Vocar20008539m.g|Vocar20008539m
 439159
 Eucgr.L02517|Eucgr.L02517.1
 GSVIVG01031425001|GSVIVT01031425001
 GRMZM2G133919|GRMZM2G133919_T01
 LOC_Os02g58340|LOC_Os02g58340.1
 PGSC0003DMG400030613|PGSC0003DMG40007866
 Carubv10000350m.g|Carubv10000350m
 Bra006067|Bra006067
 Bra028579|Bra028579
 Carubv10025914m.g|Carubv10025914m
 AT505652
 Bra024401|Bra024401
 Medtr5g030940|Medtr5g030940.1
 Glyma01g02480|Glyma01g02480.1
 Glyma09g33490|Glyma09g33490.1
 Cucsa_273340|Cucsa_273340.1
 GSVIVG01003850001|GSVIVT01003850001
 Eucgr.I00597|Eucgr.I00597.1
 Eucgr.I00594|Eucgr.I00594.1
 28333.t000012|28333.m000566
 Potri.007G004600|Potri.007G004600.1
 Potri.014G004600|Potri.014G004600.1
 Potri.014G010100|Potri.014G010100.1
 28658.t000001|28658.m000032
 30484.t000001|30484.m000014
 587 LLSRTSFQNVF---GT-RCATDPLAELPSLTLLUEYF-AADPSVL-ALFARHY-----ETDNPIPYEWVDNKI--REARRF-----
 567 MGRTHMQNIS---GT-RCATDFVELPSILMEHF-AKDIRIL-TKMKGHY-----GTCETIQADMQRFM-KSTNF-----
 391 LLSRTKTYQHBL---GT-RCAODLVEVPSPHLLEYW-ATDPRLM-GLLARDRSNDSS-----AAAGAGGGEPELPPAPLKEI-----AGRAAT-----
 483 LLSRTKTYQHBL---GT-RCAODLVEVPSPHLLEYW-ASDPVRM-GLLARDRSQCAA-----GAGGDAECEPPEELPFRM-----AGRSVA-----
 477 LLSRTKTYQHVA---GT-RCPDFPSLIPSPNLLEYY-FSDLGVM-TDMLRRT-----DRPELPSISESAAT-----ASCHSF-----
 382 LLSRTKTYQHBL---GT-RGPMDFVEIPSPNLLEYY-ANDDAAWM-RKFAPN-----GPRCFLAEL-----AKQEA-----
 530 LLSRTKTYQHBL---GT-RGPMDFVEIPSPNLLEYY-SWNQDLP-QQEIN-----SMGRPSNSNMVING-----KIRP-----
 617 LLSRTKTYQHBL---GT-RGPMDFVEIPSPNLLEYY-ASR-----AV-HRVNGR-RQKRFV-----RQKRFV-----RSVPLF-----
 243 LLSRTKTYQHFS---GT-RVALDVAEIPSPNLLEYY-AMDYRVL-KTFALDE-----TTGDAIPPERLVWALN-----MSRNMF-----
 501 LLSRTKTYQHFS---GT-RVALDVAEIPSPNLLEYY-AMDYRVL-KTFAKHY-----TTGDPPIPERLVWALN-----MSRNMF-----
 241 LLSRTKTYQHFS---GT-RVALDVAEIPSPNLLEYY-AMDYRVL-KTFAKHY-----SGCEIIPERLVWSM-----GARNMF-----
 507 LLSRTKTYQHFS---GT-RTVLDFAEIPSPNLLEYY-AMDYRVL-KTFAKHY-----SGCEIIPERLVWSM-----GARNMF-----
 520 LLSRTKTYQHFS---GT-RTVLDFAEIPSPNLLEYY-AMDYRVL-KTFARHY-----SGCEIIPERLVWSM-----GARNMF-----
 483 LLSRTKTYQHFS---GT-RVALDVAEIPSPNLLEYY-AMDYRVL-KTFARHY-----SGCEIIPERLVWSM-----GARNMF-----
 500 LLSRTKTYQHFS---GT-RVALDVAEIPSPNLLEYY-AMDYRVL-KTFARHY-----SGCEIIPERLVWSM-----GARNMF-----
 312 LLSRTKTYQHFS---GT-RVALDVAEIPSPNLLEYY-AMDYRVL-KTFARHY-----SGCEIIPERLVWSM-----GARNMF-----
 497 LLSRTKTYQHFS---GT-RVALDVAEIPSPNLLEYY-AMDYRVL-KTFAKHY-----SGCEIIPERLVWSM-----GARNMF-----
 511 LLSRTKTYQHFS---GT-RVALDFAEIPSPNLLEYY-AMDYRVL-RTEAKHY-----SGCEIIPERLVWSM-----GARNMF-----
 512 LLSRTKTYQHFS---GT-RVALDFAEIPSPNLLEYY-AMDYRVL-RTEAKHY-----SGCEIIPERLVWSM-----GARNMF-----
 552 LLSQSYRDID|IPWSPPYASDADMPFTFLQMF-VTKPNLJ-ATMSPHQT-----KQSTTHEHANVALTIS-----MSHUL-----
 513 LLSQSYRDID|IPWSPPYASDADMPFTFLQMF-VTKPNLJ-ATMSPHQT-----KQSTTHEHANVALTIS-----MSHUL-----
 510 LLSQSYRDID|IPWSPPYASDADMPFTFLQMF-VTKPNLJ-ATMSPHQT-----KQSTTHEHANVALTIS-----MSHUL-----
 474 LLSKVKVYGMPS---GT-SVHEDPVE-CPCQLEP-CWNNKDV-LVNKLSCGYKH-----SKKPHDILVERM-----MHNKNL-----
 751 LCGSKPFRPFG---GT-SVHEDPVE-APSOMEN-CWDBCAL-ERLSCHYERLAAPTRPRDDGQSESSAGAGGTGGALVPEELPSLIERM-----PTBCL-----
 482 LCGSKPFRPFG---GT-SVHEDPVE-APSOMEN-VWQEPFL-LRMSRHYW-----MSANPBPILLEK-----ESCAN-----
 506 LCAOTFARFMS---GT-NVBTDEVEIPSPOMENN-VWVDVDSL-RRLSKHYKD-----QSPFLADDLLEK-----MSLBN-----
 499 LCNRSFTRFS---GT-QMEGDFPAIPSPILLENN-CVENISL-KMMMSGFHQDI-----TKSITSEACOSL-----PRDIDI-----
 509 ICNRASFARFS---GT-RVDPDFRIPSPKLIENNQ-----DI-----TKPJVVDPEVCBTLK-----RWRYSF-----
 511 ICNRASFARFS---GT-RVDPDFRIPSPKLIENNQ-----DI-----TKPJVVDPEVCBTLK-----RWRYSF-----
 560 ICNRASFARFS---GT-RVDPDFRIPSPKLIENNQ-----DI-----TKPJVVDPEVCBTLK-----RWRYSF-----
 511 ICNRASFARFS---GT-RVDPDFRIPSPKLIENNQ-----DI-----TKPJVVDPEVCBTLK-----RWRYSF-----
 507 ICNRASFARFS---GT-RVSPDFEIPPOVIEENN-CYESLCL-KLUSGFHQDI-----TKPVNDEMCLSLX-----RWRYSF-----
 509 ICNRASFARFS---GT-RVDPDFVIEIPQQLQNC-CYESFSL-KLUSGFHQDI-----TKPKDDBJCKSII-----RWRNSS-----
 444 ICNRASFTRIS---GT-CVDAADFVEIPQQLIENN-CYESYSL-KLUSGFHQDI-----TKPLTDICKSII-----RWRISF-----
 503 ICNRASFTRIS---GT-CVDPDFVIEIPQQLIENN-CYESYSL-KLUSGFHQDI-----TKPLKDDICKSII-----RWRISF-----
 505 ICNRASFTRIS---GT-RVDPDFVIEIPQQLIENN-CYESVSL-KLUSGFHQDI-----TVPLKDDVCECSK-----KWRHS-----
 487 ICNRASFARFS---GT-RVDPDFVIEIPARVIEENN-CYESFSL-KLUSGFHQDI-----TKPJVVDPEVCBTLK-----RWRYSF-----
 510 ICNRASFARFS---GT-RVDPDFVIEIPARVIEENN-CYESFSL-KLUSGFHQDI-----TKPJVVDPEVCBTLK-----RWRYSF-----
 412 ICNRASFARFS---GT-RVDPDFVIEIPARVIEENN-CYESFSL-KLUSGFHQDI-----TKPJVVDPEVCBTLK-----RWRYSF-----
 668 LLSCEVFAKES---GT-RVDPDFVIEIPARVIEENN-CYESFSL-KLUSGFHQDI-----TKPJVVDPEVCBTLK-----RWRYSF-----
 490 LLSCEVFAKES---GT-RVDPDFVIEIPARVIEENN-CYESFSL-KLUSGFHQDI-----TKPJVVDPEVCBTLK-----RWRYSF-----
 527 MTTTMDPDCGA-GINGVWEDPEVLPSPQFENN-CWHPKPV-WOFAKHYW-----EPLPKHJLFDKM-----MOKRYM-----
 455 MTTTVEVIFVE-GMONVWEDPEVLPSPQFENN-CVDEKTL-SSTAKHYW-----EPLPEBLQKML-----SSRLRA-----
 381 LLSKODEGIIVA-GSEGGEWVAVELPSPQFENN-CYDENTL-MSSAVHYPRG-----QELPEALVYKML-----SSRTEF-----
 498 LLSKODEGIIVA-GSEGGEWVAVELPSPQFENN-CYDRNTL-MSSAVHYPRG-----QELPEALVYKML-----SSRTEF-----
 434 LLSKODEGIIVA-GSEGGEWVAVELPSPQFENN-CYDRNTL-MSSAVHYPRG-----QELPEALVYKML-----SSRTEF-----
 568 MLLTEVGFEMAS-GHENIIEWDPEVLPSPQFENN-ANDRATL-YSSAKHYW-----EPLPEELISNLK-----AAKNYR-----
 556 MLLTEVGFEMAS-GHENIIEWDPEVLPSPQFENN-ANDRATL-YSSAKHYW-----EPLPEELISNLK-----AAKNYR-----
 493 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYDRNTL-MSSAVHYPRG-----EPLPEEVYKML-----AAKTYR-----
 488 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYQNEFK-RGLGRHYVK-----ASDSSCOLGLI-----QKINPLLVQYLFSELD-----
 570 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYHKNTL-LSIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 560 MLLTODEGFVS---GT-GHEGIEWDPEVLPSPQFENN-CYHKNTL-LSIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 602 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYHRDTL-MGIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 492 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYHRDTL-MGIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 486 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYHRDTL-MGIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 492 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYHRDTL-MGIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 500 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYHRDTL-MGIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 500 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYHRDTL-MGIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 579 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYHRDTL-MGIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 577 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYHRDTL-MGIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 540 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYHRDTL-MGIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 587 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYHRDTL-MGIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 679 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYHRDTL-MGIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 491 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYHRDTL-MGIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 443 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYHRDTL-MGIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 569 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYHRDTL-MGIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 491 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYHRDTL-MGIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 584 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYHRDTL-MGIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 609 MLLTODEGIIVA-GHEGIEWDPEVLPSPQFENN-CYHRDTL-MGIAKHYETG-----EPLPEEVYKML-----AAKTFR-----
 505 MGSNVKYFRE---GT-KYRHDPEVLPSPQFENN-SWPFWL-ANYAKHYETG-----APLPEELLDKV-----ASKKFN-----
 386 MLSNVTYPSVS---GT-GWSRDFVLPSPQFENN-CYHRDTL-MGIAKHYETG-----APLPEELLDKV-----ASKKFN-----
 AATFR-----APLPEQNLDDKV-----AATFR-----

gi|85111610
 YKL134C
 Cre02.g073400|Cre02.g073400.tl.3
 Vocar20013694m|Vocar20013694m
 gi|5156501
 CMS13.1.CMS13.2CT
 gi|868637658
 Esi0033.0093
 tr|M1C3Y6|M1C3Y6_SOLTU
 GSIVTGV01018572001|GSIVT01018572001
 GRMZM2G450659|GRMZM2G450659_T01
 LOC_Os06g47210|LOC_Os06g47210.1
 Cucsa_251510|Cucsa_251510.1
 Glyma04g13088|Glyma04g13088.1
 Medtr3g009160|Medtr3g009160.1
 Bra029169|Bra029169
 Carubv10025983m.g|Carubv10025983m
 AT5051540
 Eucgr.K00152|Eucgr.K00152.1
 30147.t000467|30147.m014196
 Potri.015G129300|Potri.015G129300.1
 416778|416778
 Phpat.016G041000|Phpat.016G041000.1
 gi|7159758
 gi|1013533
 YOL057W
 gi|46801567
 CMS446C|CMS446CT
 gi|4507491
 gi|14149738|ref|NP_065777
 LOC_Os01g67590|LOC_Os01g67590.1
 Bra004244|Bra004244
 Bra004078|Bra004078
 Carubv10019853m.g|Carubv10019853m
 AT1667690
 Eucgr.B03454|Eucgr.B03454.1
 Medtr3g086000|Medtr3g086000.1
 Glyma11g37410|Glyma11g37410.2
 Glyma18g01380|Glyma18g01380.1
 Cucsa_394790|Cucsa_394790
 GSIVTGV01010319001|GSIVT01010319001
 29929.t000212|29929.m004700
 Potri.010G054500|Potri.010G054500.1
 164651|164651
 Phpat.018G066900|Phpat.018G066900.1
 Phpat.019G066000|Phpat.019G066000.1
 Esi0023.0135
 85692|85692
 97633|97633
 119899|119899
 97030|97030
 Cre13.g572900|Cre13.g572900.t2.1
 Vocar20008539m.g|Vocar20008539m
 439159
 Eucgr.L02517|Eucgr.L02517.1
 GSIVTGV01031425001|GSIVT01031425001
 GRMZM2G133919|GRMZM2G133919_T01
 LOC_Os02g58340|LOC_Os02g58340.1
 PGSC0003DMG400030613|PGSC0003DMG40007866
 Carubv10000350m.g|Carubv10000350m
 Bra006067|Bra006067
 Bra028579|Bra028579
 Carubv10025914m.g|Carubv10025914m
 AT505652
 Bra024401|Bra024401
 Medtr5g030940|Medtr5g030940.1
 Glyma01g02480|Glyma01g02480.1
 Glyma09g33490|Glyma09g33490.1
 Cucsa_273340|Cucsa_273340.1
 GSIVTGV01003850001|GSIVT01003850001
 Eucgr.I00597|Eucgr.I00597.1
 Eucgr.I00594|Eucgr.I00594.1
 28333.t000012|28333.m000566
 Potri.007G004600|Potri.007G004600.1
 Potri.014G004600|Potri.014G004600.1
 Potri.014G010100|Potri.014G010100.1
 28658.t000001|28658.m000032
 30484.t000001|30484.m000014
 652 EALDPTENQJILANMLDQBLHSSKAVQG---HI
 632 QNCETYSCKAKMAMLDOSFHDEKIIISPIDNF
 467 AAELLQQCLVLSLADOMLFGENPQAPTA
 559 AAELLQQCLVLSLADOMLFGEGGHGAGVGAGGGGGAGGA
 543 AATTELTVQAAAGLDELLVHGPPIAAPQIASGRM
 441 VVAEIALTPEFLAFLDLAHSHDIFGWNNEARS
 594 SAEIETEQISAFPLFLHNVETDKNTSINIG
 670 AATTELQGQITFLDQFLDQFQPEQCVWS---
 308 PNTLQLQDFNFSIMDLTFGEQGSSKPMDT
 566 SATELQROFNFNSIMDLTFGEQGSKPMDT
 281 AATTELQROFNFNALDQDFGEKLTTSERDT
 572 AATTELQROFNFNALDQDFGEQFFPHGD
 585 AATTELQROFNFNALDQDFGEQPHPLGDV
 544 AATTEMORQVFALDQDFGEQPATSRDV
 565 VATELQROFVFALDQDFGEQPATARDV
 565 AATTEMORQVFALDQDFGEQPATARDV
 377 AATTELQROFVFALDQDFGDQLAGQRDT
 562 SATELQROFVFALDQDFGEQFASRDT
 582 AATTELQROFVFALDQDFGEQFASPNDM
 583 GTVELLQROFVFALDQDFGPQFLPAGGT
 505 SATELQROFVFALDQDFGPQFLPAKDT
 623 SWETYTRILFWSDPDLISIYEMEDRKQK
 501 OMTNQWVWLISSNAPIDMTHPFREREN
 576 AATTELQROFVFALDQDFGEQPATARDV
 541 AATTELQROFVFALDQDFGEQPATARDV
 842 AATTELQROFVFALDQDFGEQPATARDV
 547 TCFQFLNFRQFLVAKDQDQFLQD
 571 TCFQFLNFRQFLVAKDQDQFLQD
 562 AGCKLQKQBLCLDQDQFLQD
 561 SALKSLQBLQCLDQDQFLQD
 578 SALKSLQBLQCLDQDQFLQD
 626 SALKSLQBLQCLDQDQFLQD
 577 SALKSLQBLQCLDQDQFLQD
 573 SALKSLQBLQCLDQDQFLQD
 575 SALKSLQBLQCLDQDQFLQD
 510 SALKSLQBLQCLDQDQFLQD
 575 SALKSLQBLQCLDQDQFLQD
 575 SALKSLQBLQCLDQDQFLQD
 553 SALKSLQBLQCLDQDQFLQD
 576 SALKSLQBLQCLDQDQFLQD
 578 SALKSLQBLQCLDQDQFLQD
 478 SALKSLQBLQCLDQDQFLQD
 734 SALKSLQBLQCLDQDQFLQD
 565 SALKSLQBLQCLDQDQFLQD
 593 AGCTAATGCG
 522 TIDMNOVLLAIAVDLKHBNFPENGLTT
 447 SISNVNLVLSRSIIDLNLHAKLEAVNSK
 564 SISNVNLVLSRSIIDLNLHAKLEAVNSK
 500 SISNVNLVLSRSIIDLNLHAKLEAVNSK
 633 SISNMIRROLHHSCLVDELHARFKPGGGOK
 639 SISNMIRROLHHSCLVDELHARFKPGGGOK
 552 AASLMRMRLHEAMNDLELHGRFKVGGSE
 554 AASLMRMRLHEAMNDLELHGRFKVGGSE
 564 FLSIEIFTLRLMASVLDLELHAKYEDPGSE
 636 AGTSLIROIRFAFDVMDLHHTSYDPNGSV
 626 AGTFSIROIRFAFDVMDLHHTYDPNGSL
 668 AGTSLIROIRFAFDVMDLHHTYDPNGSE
 558 AGSLSLIROIHKFATVDLLELHTKYDPGTE
 552 AGSLSLIROIHKFATVDLLELHTKYDPGTE
 558 AGSLSLIROIHKFATVDLLELHTKYDPGTE
 646 AGSLSLIROIHKFATVDLLELHTKYDPGTE
 566 AGSLSLIROIHKFATVDLLELHTKYDPGTE
 645 AGTOSIROIKHKFATVDLLELHTKYDPGSE
 643 AGSLSLIROIKHKFASVDLLELHTXYDPGSE
 540 VHTKYDPGSE
 653 AGSLSLIROIHKFASVDLLELHTKYDPGSE
 745 AGSLSLIROIHKFATVDLLELHSKYDPGSE
 557 AGSLSLIROVTFASVDLLELHTNYDPGSE
 509 AGSLSLIROIHKFASVDLLELHTKYDPGSE
 635 AGSLSLIROIHKFASVDLLELHTKYDPGSE
 557 AGSLSLIROIHKFASVDLLELHTKYDPGSE
 650 AGSLSLIROIHKFASVDLLELHTKYDPGSE
 675 AGSLSLIROIHKFASVDLLELHTKYDPGSE
 570 EGFRITTEYLAASIDQKWHQIGVSQMPD
 451 AGFNTVEFTSSALVDMAFHTRGVVEPPMA

gi|85111610
YKL134C
Cre02.g073400|Cre02.g073400.tl.3
Vocar20013694m.g|Vocar20013694m
gi|51565051
CMS13.1.CMS13.2CT
gi|868637658
Esi0033.0093
tr|MIC3Y6|Mic3Y6_SOLTU
GSVIVG01018572001|GSVIVT01018572001
GRMZM2G450659|GRMZM2G450659_T01
LOC_Os06g47210.1
Cucsa_251510.0|Cucsa_251510.1
Glyma04g13088|Glyma04g13088.1
Medtr3g009160|Medtr3g009160.1
Bra029169|Bra029169
Carubv10025983m.g|Carubv10025983m
AT5051540
Eucgr.K00152|Eucgr.K00152.1
30147.t000467|30147.m014196
Potri.015G129300|Potri.015G129300.1
416778.416778
Phpat.016G041000|Phpat.016G041000.1
gi|7119758
gi|7119753
YOL057W
gi|46801567
CMS446C|CMS446C
gi|4507491
gi|14149738|ref|NP_065777
LOC_Os01g67590|LOC_Os01g67590.1
Bra004244|Bra004244
Bra004078|Bra004078
Carubv10019853m.g|Carubv10019853m
AT1067690
Eucgr.B03454|Eucgr.B03454.1
Medtr3g086000.1|Medtr3g086000.1
Glymal1g37410|Glymal1g37410.2
Glyma18g01380|Glymal18g01380.1
Cucsa_394790|Cucsa_394790
GSVIVG01010319001|GSVIVT01010319001
29929.t000212|29929.m004709
Potri.010G054500|Potri.010G054500.1
164651|164651
Phpat.018G066900|Phpat.018G066900.1
Phpat.019G066000|Phpat.019G066000.1
Esi0023.0135
85692
97633|97633
119899|119899
97030|97030
Cre13.g572900|Cre13.g572900.t2.1
Vocar20008539m.g|Vocar20008539m
439159
Eucgr.L02517.1|Eucgr.L02517.1
GSVIVG01031425001|GSVIVT01031425001
GRMZM2G133919|GRMZM2G133919_T01
LOC_Os02g58340|LOC_Os02g58340.1
PGSC003DMG400030613|PGSC003DMG40007866
Carubv10000350m.g|Carubv10000350m
600
Bra006067|Bra006067
Bra028579|Bra028579
Carubv10025914m.g|Carubv10025914m
AT505652
Bra024401|Bra024401
Medtr5g030940|Medtr5g030940.1
Glyma01g02480|Glyma01g02480.1
Glyma09g33490|Glyma09g33490.1
Cucsa_273340|Cucsa_273340.1
GSVIVG01003850001|GSVIVT01003850001
Eucgr.I00597|Eucgr.I00597.1
Eucgr.I00594|Eucgr.I00594.1
28333.t000012|28333.m000566
Potri.007G004600|Potri.007G004600.1
Potri.014G004600|Potri.014G004600.1
Potri.014G010100|Potri.014G010100.1
28658.t000001|28658.m000032
30484.t000001|30484.m000014
713 --> GYGSTVYSYLFDRLVLAQRVWNVVENSQGGAAHQ--RENGERLKENLKWWGSKDPWKCAAGAKD-ERLEGGGEKAMKLVGSWGQRETKSDQIV--
693 --> YGQANVYSYLFDRTIASKIINYAELFED--PYS--RKNGDKEKKPLKGKLGDPWKCAAGAKD-ERLEGGGEKAMKLVGSWGQRETKSDQIV--
537 --> IGGSYVSYLVARCIAJALWRAGLAE--APFD--PGACELLERLERLAPGGALEPLELTCGAEEAAEAGEGAGS--PVG-SSATRCARGRQVRQLALQRQRQQQ
646 --> IGGYVSYLVARACACLWQQRFL-N-DPFS--RKWCDC-WAEVYSHSGCHHAWAVLKEKLFQRT--ENDDTQALSKESQHSLANLDATVTV--
505 --> GGGGYSYLARILAREVNRLFRDS-KUSM-AAGCELLRNRFGRFASKEPELIDATUTVNGEE--PRFRGLAEATIGADSQYATLFLVASAN
662 --> YGAGYVSYLKDTSKRHNINPFDSG-KQDN-LERGCQFYQNPNFKAASIDSPLELNRNPK--
730 --> GGGGYSYLAKMFSAWLRPFA-K-DPFS--SDACELLKEPLIPRGALDPBP-PRVDRG-EQGSGGDAAGLRAQGVTSLKDTAVAT--
367 --> TGGAGYVSYLARCFATTIPOEVCO-E--DPFS--RSACSAIIRDKPFLSDPSSLKWDAG-DAIRVNGSGIIIPNASSCKEIEH*--
625 --> NYGAGYVSYLARCFATTIPOEVCO-G--DPFS--RSACSAIIRDKPFLKHGGAKDPSALIKDWDVG-DGIIISNGGGIIPDLSCKEVEGH*--
340 --> TMGAGYVSYLAKCFATTIWNKLCK-E--DPFS--RGCFAAPIRKFPLKNEKLCK-E--DPFS--RGCFAAPIRKFPLKNEKLCK-E--
631 --> NYGAGYVSYLAKCFATTIWNKLCK-E--DPFS--FTTGFALEKPFQOHGGAAPEALNDLAG-DGIIYRYCDGGIMPDISCDEMEKLF*--
644 --> NYGAGYVSYLAKCFATTIWNKLCK-E--DPFS--PIAGNARLKFPLQHGGAKDPAVIDLTDLAG-DGIIYRSYNGGIIIPDLSCEEMENQKVKHLL*--
607 --> NYGAGYVSYLAKCFATTIWSVCE-E--DPFS--LSKGTLRERKFFKHGGAKDPAELTDLAG-KEIISVHREGIVPATCVNELK*--
624 --> NYGAGYVSYLAKCFATTIWSVCE-E--DPFS--LNKGTLRERKFFKHGGAKDPAELTDLAG-KEIISVHREGIVPATCVNELK*--
624 --> NYGAGYVSYLAKCFATTIWNKLCK-D--DPFS--LTGTALERLTKLQHGGAKDPAELTDLAG-KEIISVHREGIVPATCVNELK*--
621 --> NYGAGYVSYLAKCFATTIWNKLCK-E--DPFS--LTGTALERLTKLQHGGAKDPAELTDLAG-KEIISVHREGIVPATCVNELK*--
639 --> NYGAGYVSYLARCFATTIWNKLCK-E--DPFS--LTAGTALEKPLQHGGAKDPAELTDLAG-EGILKHCDDGIVPDITCFLEESRUVGRK*--
641 --> NYGAGYVSYLARCFATTIWNKLCK-E--DPFS--NPLS-LTGTALERLTKLQHGGAKDPAELTDLAG-EGILKHCDDGIVPDITCFLEESRUVGRK*--
564 --> NYGAGYVSYLARCFATTIWNKLCK-E--DPFS--NPLS-LTGTALERLTKLQHGGAKDPAELTDLAG-EGILKHCDDGIVPDITCFLEESRUVGRK*--
628 --> NYGAGYVSYLARCFATTIWNKLCK-E--DPFS--NPLS-LTGTALERLTKLQHGGAKDPAELTDLAG-EGILKHCDDGIVPDITCFLEESRUVGRK*--
636 SD-SH
636 SD-SH
600 G-CGAGYVSYLSEPSLSEI-ELIDKX-GUEN-KHEIABHLRNLVLAOGCSFSSSETENPLGKXP-SKVMYRSCMUKPGGSPEASIMRPEPLGPV--
951 S-CGAGYVSYLSEPSLSEI-ELIDKX-GUEN-KHEIABHLRNLVLAOGCSFSSSETENPLGKXP-SKVMYRSCMUKPGGSPEASIMRPEPLGPV--
603 G-CGAGYVSYLSEPSLSEI-ELIDKX-GUEN-KHEIABHLRNLVLAOGCSFSSSETENPLGKXP-SKVMYRSCMUKPGGSPEASIMRPEPLGPV--
627 G-CGAGYVSYLSEPSLSEI-ELIDKX-GUEN-PWVCMXYRNL1LPGCGSDGMMDHNPILKREP-NOKRSLMSRGLHAP*--
619 I-CGADAVYVSYLSEPSLSEI-ELIDKX-GUEN-QHAGLBRERNMVLAPGGSUPNPIDLSDPMLGREP-SIQAFIQSRTNLSL*--
619 I-CGADAVYVSYLSEPSLSEI-ELIDKX-GUEN-QHAGLBRERNMVLAPGGSUPNPIDLSDPMLGREP-SIQAFIQSRTNLSL*--
619 I-CGADAVYVSYLSEPSLSEI-ELIDKX-GUEN-LYNGLQFRDKKFLVPLGGKEPELTDPLGREP-STORYIESRTKYGJL*--
619 I-CGADAVYVSYLSEPSLSEI-ELIDKX-GUEN-LYNGLQFRDKKFLVPLGGKEPELTDPLGREP-STORYIESRTNYSL*--
635 I-CGSEATCYGSRVSEYAADIIFASMG-F-GHPN-LYAGLQFRDKVLAOGGKEAMEALTDPLGREP-STORYIESRTNYSL*--
683 I-CGSEATCYGSRVSEYAADIIFASMG-F-GHPN-LYAGLQFRDKVLAOGGKEAMEALTDPLGREP-STORYIESRTNYSL*--
634 I-CGSEATCYGSRVSEYAADIIFASMG-F-GHPN-LYAGLQFRDKVLAOGGKEAMEALTDPLGREP-STORYIESRTNYSL*--
634 I-CGSEATCYGSRVSEYAADIIFASMG-F-GHPN-DPFS-QNNGKMRFKNLVPLGGAKDPLEVSDPLGREP-SIQAFVDVRAEHGRTESICRV*--
632 V-CGEEAACYCSRIVSEFAADITLSKFLR-S-GVFN-QLRLGKFRNLVPLGGAKDPLEVSDPLGREP-SILSYENKAKYTL*--
567 V-CGEEAACYCSRIVSEFAADITLSKFLR-S-GVFN-QZAGMQRFKNLVLAACGKVPDLEVSDPLGREP-SIQAFYENKVKYVLY*--
632 I-CGEEAACYCSRIVSEFAADITLSKFLR-S-GVFN-QZAGMQRFKNLVLAACGKVPDLEVSDPLGREP-SIQAFYENKVKYVLY*--
622 I-CGEEAACYCSRIVSEFAADITLSKFLR-S-GVFN-QH2GLQFRNLVPLGGAKDPLEVSDPLGREP-SIQAFIDSKEAYESL*--
610 V-CGEEATCYGSRVSEYAADIIFASMG-F-GILLS-QY1GMOFRNLVLAOGGKSPLDLMISDPLGREP-SIQAFVESVQVQASL*--
633 I-CGEEATCYGSRVSEYAADIIFASMG-F-GILLS-QY1GMOFRNLVLAOGGKSPLDLMISDPLGREP-SIQAFVDSRAGYGL*--
622 I-CGEEATCYGSRVSEYAADIIFASMG-F-GILLS-QY1GMOFRNLVLAOGGKSPLDLMISDPLGREP-SIQAFDSKTYKSP*--
535 G-CGEEATCYGSRVSEYAADIIFASMG-F-GILLS-QY1GMOFRNLVLAOGGKSPLDLMISDPLGREP-SIQAFDSKTYKSP*--
791 G-CGEEATCYGSRVSEYAADIIFASMG-F-GILLS-QY1GMOFRNLVLAOGGKSPLDLMISDPLGREP-SIQAFDSKTYKSP*--
613 G-CGEEATCYGSRVSEYAADIIFASMG-F-GILLS-QY1GMOFRNLVLAOGGKSPLDLMISDPLGREP-SIQAFDSKTYKSP*--
581 T-GYAGYVSYLNAEVLSADVFNAA-FEDA-MEKDFKAVKEVLCMRRKNTILALGGCMAAHPVKAERGKEP-SVDPFLRROYGJRK*--
506 ATTEYAAGYVSYLNAEVLSADVFNAA-FEDA-GENETAVKECMLKPTOLBLGGCRAPKVPELEVRGKEP-SENALLRBRGLUVV*--
624 ATTEYAAGYVSYLNAEVLSADVFNAA-FEDA-GENETAVKECMLKPTOLBLGGCRAPKVPELEVRGKEP-SENALLRBRGLUVV*--
624 ATTEYAAGYVSYLNAEVLSADVFNAA-FEDA-GENETAVKECMLKPTOLBLGGCRAPKVPELEVRGKEP-SENALLRBRGLUVV*--
560 ATTEYAAGYVSYLNAEVLSADVFNAA-FEDA-GENETAVKECMLKPTOLBLGGCRAPKVPELEVRGKEP-SENALLRBRGLUVV*--
694 AS-GYAGYVSYLNAEVLSADVFNAA-FEDA-GDDESVAEDRQGARFRDVTIALGGSVPAPEVVRGKEP-STKPLLOHNGLLAAATA*--
699 AG-GYAGYVSYLNAEVLSADVFNAA-FEDA-GDDEAAYRDQGARFRDVTIALGGSVPAPEVVRGKEP-TRPLLOHNGLLAVAMA*--
619 SSASAKYAGYVSYLNAEVLSADVFNAA-FEDA-GDDENAALKETGRFRDVTIALGGSVPAPEVVRGKEP-STEALLRBRGLAVAS*--
581 T-GYAGYVSYLNAEVLSADVFNAA-FEDA-MEKDFKAVKEVLCMRRKNTILALGGCMAAHPVKAERGKEP-SVDPFLRROYGJRK*--
506 ATTEYAAGYVSYLNAEVLSADVFNAA-FEDA-GENETAVKECMLKPTOLBLGGCRAPKVPELEVRGKEP-SENALLRBRGLUVV*--
624 ATTEYAAGYVSYLNAEVLSADVFNAA-FEDA-GENETAVKECMLKPTOLBLGGCRAPKVPELEVRGKEP-SENALLRBRGLUVV*--
624 ATTEYAAGYVSYLNAEVLSADVFNAA-FEDA-GENETAVKECMLKPTOLBLGGCRAPKVPELEVRGKEP-SENALLRBRGLUVV*--
560 ATTEYAAGYVSYLNAEVLSADVFNAA-FEDA-GENETAVKECMLKPTOLBLGGCRAPKVPELEVRGKEP-SENALLRBRGLUVV*--
694 AS-GYAGYVSYLNAEVLSADVFNAA-FEDA-GDDEAAYRDQGARFRDVTIALGGSVPAPEVVRGKEP-STKPLLOHNGLLAAATA*--
699 AG-GYAGYVSYLNAEVLSADVFNAA-FEDA-GDDEAAYRDQGARFRDVTIALGGSVPAPEVVRGKEP-TRPLLOHNGLLAVAMA*--
619 SSASAKYAGYVSYLNAEVLSADVFNAA-FEDA-GDDENAALKETGRFRDVTIALGGSVPAPEVVRGKEP-STEALLRBRGLAVAS*--
624 AD-KYAGYVSYLNAEVLSADAFSA-FEDA-GDDNVKAVKEVLCMRRKNTILALGGCMAAHPVKAERGKEP-SPEKALLYRTGJSPVTEA*--
696 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDDEKAKETGRFRDVTIALGGCRAPKVPELEVRGKEP-SPEPLRBRGLPVAA*--
686 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDNEKAKETGRFRDVTIALGGCRAPKVPELEVRGKEP-SPEALLRBRGLPVAA*--
728 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDNEKAKETGRFRDVTIALGGCRAPKVPELEVRGKEP-SPEALLRBRGLPVAA*--
600 --> GYAGYVSYLNAEVLSADAFSA-FEDA-GDNEKAKETGRFRDVTIALGGCRAPKVPELEVRGKEP-SPEALLRBRGLPVAA*--
612 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDD1IKAVKEGQFRNTILALGGGAPIQVPELEVRGKEP-SPEPLRBRGLVATA*--
618 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDD1IKAVKEGQFRNTILALGGGAPIQVPELEVRGKEP-SPEPLRBRGLVATA*--
704 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDD2IKAVKEGQFRNTILALGGGAPIQVPELEVRGKEP-SPEPLRBRGLVATA*--
626 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDD2IKAVKEGQFRNTILALGGGAPIQVPELEVRGKEP-SPEPLRBRGLVATA*--
726 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDD2IKAVKEGQFRNTILALGGGAPIQVPELEVRGKEP-SPEPLRBRGLVATA*--
626 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDD2IKAVKEGQFRNTILALGGGAPIQVPELEVRGKEP-SPEPLRBRGLVATA*--
705 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDNNKAV1IETGHMFRNTILALGGGAPIQVPELEVRGKEP-SPEPLRBRGLVATA*--
703 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDNNKAV1IETGHMFRNTILALGGGAPIQVPELEVRGKEP-SPEPLRBRGLVATA*--
583 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDNPNAKETGRFRDVTIALGGGAPIQVPELEVRGKEP-TEDPLLOHNGLLQVAA*--
713 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDNDNEAKETGRFRDVTIALGGGAPIQVPELEVRGKEP-SPEPLRBRGLVATA*--
805 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDDEKAETGRFRDVTIALGGGAPIQVPELEVRGKEP-SPEALLRBRGLVATA*--
617 SG-GHAGYVSYLNAEVLSADAFSA-FEDA-GDDESKAVETGRFRDVTIALGGGAPIQVPELEVRGKEP-SDSASLRBRGLVATA*--
569 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GND5KAVKETGQFRNTILALGGGAPIQVPELEVRGKEP-SPEALLRBRGLPVAA*--
695 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDDESKAVETGRFRDVTIALGGGAPIQVPELEVRGKEP-SPEPLRBRGLPVAA*--
617 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDDESKAVETGRFRDVTIALGGGAPIQVPELEVRGKEP-SPEALLRBRGLPVAA*--
710 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDDESKAVETGRFRDVTIALGGGAPIQVPELEVRGKEP-SPEALLRBRGLPVAA*--
735 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDDESKAVETGRFRDVTIALGGGAPIQVPELEVRGKEP-SPEALLRBRGLPVAA*--
631 AG-GYAGYVSYLNAEVLSADAFSA-FEDA-GOMLR---KNGDY-FRKMLJSKGGTLMAMQMYRNRGRDA-SPEPLRBRGLVATA*--
508 SG-GYAGYVSYLNAEVLSADAFSA-FEDA-GDPAFN---FDMAEKLKANIYS-SPEPLRBRGLVATA*

gi|85111610
 YKL134C
 Cre02.g073400|Cre02.g073400.tl.3
 Vocar20013694m.g|Vocar20013694m
 gi|5156501
 CMS132.CMS132CT
 gi|268637658
 Esi0033.0093
 tr|M1C3Y6_M1C3Y6_SOLTU
 GSVIVG01018572001|GSVIVT01018572001
 GRMZM2G450659|GRMZM2G450659_T01
 LOC_Os06g47210|LOC_Os06g47210.1
 Cucsa_251510|Cucsa_251510.1
 Glyma04g13088|Glyma04g13088.1
 Medtr3g009160|Medtr3g009160.1
 Bra029169|Bra029169
 Carubv10025983m.g|Carubv10025983m
 AT5051540
 Eucgr.K00152|Eucgr.K00152.1
 30147.t000467|30147.m014196
 Potri.015G129300|Potri.015G129300.1
 416778|416778
 Phpat.016G041000|Phpat.016G041000.1
 gi|2159758
 gi|1010353
 YOL057W
 gi|46801567
 CMS446C|CMS446CT
 gi|4507491
 gi|14149738|ref|NP_065777
 LOC_Os01g67590|LOC_Os01g67590.1
 Bra004244|Bra004244
 Bra004078|Bra004078
 Carubv10019853m.g|Carubv10019853m
 AT1667690
 Eucgr.B03454|Eucgr.B03454.1
 Medtr3g086000|Medtr3g086000.1
 Glyma11g37410|Glyma11g37410.2
 Glyma18g01380|Glyma18g01380.1
 Cucsa_394790|Cucsa_394790.
 GSVIVG01010319001|GSVIVT01010319001
 29929.t000212|29929.m004709
 Potri.010G054500|Potri.010G054500.1
 164651|164651
 Phpat.018G066900|Phpat.018G066900.1
 Phpat.018G066000|Phpat.018G066000.1
 Esi0023.0135
 85692|85692
 97633|97633
 119899|119899
 97030|97030
 Cre13.g572900|Cre13.g572900.t2.1
 Vocar20008539m.g|Vocar20008539m
 439159
 Eucgr.L02517|Eucgr.L02517.1
 GSVIVG01031425001|GSVIVT01031425001
 GRMZM2G133919|GRMZM2G133919_T01
 LOC_Os02g58340|LOC_Os02g58340.1
 PGSC0003DMG400030613|PGSC0003DMT40007866
 Carubv10000350m.g|Carubv10000350m
 Bra006067|Bra006067
 Bra02857|Bra02857
 Carubv10025914m.g|Carubv10025914m
 AT5065620
 Bra024401|Bra024401
 Medtr5g030940|Medtr5g030940.1
 Glyma01g02480|Glyma01g02480.1
 Glyma09g33490|Glyma09g33490.1
 Cucsa_273340|Cucsa_273340.1
 GSVIVG01003850001|GSVIVT01003850001
 Eucgr.I00597|Eucgr.I00597.1
 Eucgr.I00594|Eucgr.I00594.1
 28333.t000012|28333.m000566
 Potri.007G004600|Potri.007G004600.1
 Potri.014G004600|Potri.014G004600.1
 Potri.014G010100|Potri.014G010100.1
 28658.t000001|28658.m000032
 30484.t000001|30484.m000014

634 QQQQQG---GGGGAHEAMPGGGLQ---YLEGGYA--P---R---SDYYLET-LKTGIAA*-
 710 -----GVEKALAPAAEGGFLQ---ALEGGFA---P---R---PEQYLEM-LRKGSGSPEGLRST*-
 595 -----RSELCAEPSA

719
 760 IQDEMEMSENQR--
 712 GRDP-----VIEGASSEEDPAIEHHP-F-

710 AQMEVMSMSLNALTRLPLKNTGRLE-EFFGLARHSLFTSRTPCLERAQRRKALVVEAKGKKGMAARQYQRTPPPMPKIEDDDGNPR-----FVIFIRM--ANVYLWYPLSII

799 INTR--ILTYVLRSFP-----LHSIF-SDFPCTENPETAFTYFWIITDS-CPLTMKEVI-HRPPFEVLSQSSNLMKMLHYNFHLLIKMELKEKEEKIPSMAR

gi|85111610
 YKL134C
 Cre02.g073400|Cre02.g073400.tl.3
 Vocar20013694m.g|Vocar20013694m
 gi|5156501
 CMS132CT|CMS132CT
 gi|368637658
 Esi0033_0093
 tr|N1C3Y6|MLC3Y6_SOLTU
 GSVITVG01018572001|GSVITVT01018572001
 GRMZM2G450659|GRMZM2G450659_T01
 LOC_Os06g47210|LOC_Os06g47210.1
 Cucsa_251510|Cucsa_251510.1
 Glyma04g13088|Glyma04g13088.1
 Medtr3g009160|Medtr3g009160.1
 Bra029169|Bra029169
 Carubv10025983m.g|Carubv10025983m
 AT5051540
 Eucgr.K00152|Eucgr.K00152.1
 30147.t000467|30147.m014196
 Potri.015G129300|Potri.015G129300.1
 416778|416778
 Phpat.016G041000|Phpat.016G041000.1
 gi|2159758
 gi|1010353
 YOL057W
 gi|46801567
 CMS446C|CMS446CT
 gi|4507491
 gi|14149738|ref|NP_065777
 LOC_Os01g67590|LOC_Os01g67590.1
 Bra004244|Bra004244
 Bra004078|Bra004078
 Carubv10019853m.g|Carubv10019853m
 AT1667690
 Eucgr.B03454|Eucgr.B03454.1
 Medtr3g086000|Medtr3g086000.1
 Glyma11g37410|Glyma11g37410.2
 Glyma18g01380|Glyma18g01380.1
 Cucsa_394790|Cucsa_394790.
 GSVITVG01010319001|GSVITVT01010319001
 29929.t000212|29929.m004709
 Potri.010G054500|Potri.010G054500.1
 164651|164651
 Phpat.018G066900|Phpat.018G066900.1
 Phpat.018G066000|Phpat.018G066000.1
 Esi0023_0135
 85692|85692
 97633|97633
 119899|119899
 97030|97030
 Cre13.g572900|Cre13.g572900.t2.1
 Vocar20008539m.g|Vocar20008539m
 439159
 Eucgr.L02517|Eucgr.L02517.1
 GSVITVG01031425001|GSVITVT01031425001
 GRMZM2G133919|GRMZM2G133919_T01
 LOC_Os02g58340|LOC_Os02g58340.1
 PGSC0003DMG400030613|PGSC0003DMT40007866
 Carubv10000350m.g|Carubv10000350m
 Bra006067|Bra006067
 Bra02857|Bra02857
 Carubv10025914m.g|Carubv10025914m
 AT506562
 Bra024401|Bra024401
 Medtr5g030940|Medtr5g030940.1
 Glyma01g02480|Glyma01g02480.1
 Glyma09g33490|Glyma09g33490.1
 Cucsa_273340|Cucsa_273340.1
 GSVITVG01003850001|GSVITVT01003850001
 Eucgr.I00597|Eucgr.I00597.1
 Eucgr.I00594|Eucgr.I00594.1
 28333.t000012|28333.m000566
 Potri.007G004600|Potri.007G004600.1
 Potri.014G004600|Potri.014G004600.1
 Potri.014G010100|Potri.014G010100.1
 28658.t000001|28658.m000032
 30484.t000001|30484.m000014

811 AGGTAKIMVAAKDNLLGKYIYKDTIARNIAAVIYRDEKEIQKTAIKQHRLRTATEFRYG-----YKLVVML--SKLLSSVISSSENGNMRAALSTSVDVIELPTQ

890 AGGITNAVNVCIG-----AVQAD-----WENREFISHISLNVRRLFDPLVQFATTKSKLASLNKLDVLERRLELLEVQVGNASAN

gi|85111610
 YKL134C
 Cre02.g073400|Cre02.g073400.tl.3
 Vocar20013694m.g|Vocar20013694m
 gi|5156501
 CMS132CT|CMS132CT
 gi|368637658
 Esio033_0093
 tr|N1C3Y6|N1C3Y6_SOLTU
 GSIVVG01018572001|GSIVVT01018572001
 GRMZM2G450659|GRMZM2G450659_T01
 LOC_Os06g47210|LOC_Os06g47210.1
 Cucsa_251510|Cucsa_251510.1
 Glyma04g13088|Glyma04g13088.1
 Medtr3g009160|Medtr3g009160.1
 Bra029169|Bra029169
 Carubv10025983m.g|Carubv10025983m
 AT5051540
 Eucgr.K00152|Eucgr.K00152.1
 30147.t000467|30147.m014196
 Potri.0150129300|Potri.015G129300.1
 416778|416778
 Phpat.016G041000|Phpat.016G041000.1
 gi|2159758
 gi|1010353
 YOL057W
 gi|46801567
 CMS446C|CMS446CT
 gi|4507491
 gi|14149738|ref|NP_065777
 LOC_Os01g67590|LOC_Os01g67590.1
 Bra004244|Bra004244
 Bra004078|Bra004078
 Carubv10019853m.g|Carubv10019853m
 AT1067690
 Eucgr.B03454|Eucgr.B03454.1
 Medtr3g086000|Medtr3g086000.1
 Glyma11g37410|Glyma11g37410.2
 Glyma18g01380|Glyma18g01380.1
 Cucsa_394790|Cucsa_394790.1
 GSIVVG01010319001|GSIVVT01010319001
 29929.t000212|29929.m004709
 Potri.010G054500|Potri.010G054500.1
 164651|164651
 Phpat.018G066900|Phpat.018G066900.1
 Phpat.018G0660600|Phpat.018G0660600.1
 Esio023_0135
 85692|85692
 97633|97633
 119899|119899
 97030|97030
 Cre13.g572900|Cre13.g572900.t2.1
 Vocar20008539m.g|Vocar20008539m
 439159
 Eucgr.L02517|Eucgr.L02517.1
 GSIVVG01031425001|GSIVVT01031425001
 GRMZM2G133919|GRMZM2G133919_T01
 LOC_Os02g58340|LOC_Os02g58340.1
 PGSC0003DMG400030613|PGSC0003DMT40007866
 Carubv10000350m.g|Carubv10000350m
 Bra006067|Bra006067
 Bra02857|Bra02857
 Carubv10025914m.g|Carubv10025914m
 AT5065620
 Bra024401|Bra024401
 Medtr5g030940|Medtr5g030940.1
 Glyma01g02480|Glyma01g02480.1
 Glyma09g33490|Glyma09g33490.1
 Cucsa_273340|Cucsa_273340.1
 GSIVVG01003850001|GSIVVT01003850001
 Eucgr.I00597|Eucgr.I00597.1
 Eucgr.I00594|Eucgr.I00594.1
 28333.t000012|28333.m000566
 Potri.007G004600|Potri.007G004600.1
 Potri.014G004600|Potri.014G004600.1
 Potri.014G010100|Potri.014G010100.1
 28658.t000001|28658.m000032
 30484.t000001|30484.m000014

910 DQLKTVFDKVDFGDAKESFGKISSLNPGTDEETEGSPDDKAKVQG*
 966 PSLFAT*

