	Helix 1	Helix 2	Helix 3
AT1G13450	RAETWVQDETRSLIMFRRGMDGLFNTSKS--------------------------------	NKHLWEQISSKM-REKGFD--------------------	RSPTMCTDKWRNLLKEFKKAK
AT1G21200	QRVKWTDKMVKLLITAVSYIGDDSSIDS-----SSRRKFAV----------	LQKKGKWKSVSKVM-AERGYH--------------------	VSPQQCEDKFNDLNKRYKKLN
AT1G31310	RKGNWTLNETMVLIEAKMDDERRMRRSIGLPPPEQQQDIRS----------	NKPAELRWKWIEDYC-WRKGCM--------------------	RSQNQCNDKWDNLMRDYKKVR
AT1G33240	SGNRWPREETLALLRIRSDMDSTFRDATL----------	KAPLWEHVSRKL-LELGYK--------------------	RSSKKCKEKFENVQKYYKRTK
AT1G54060	RDDCWSEEATKVLIEAWGDRFSEPGKGTLK----------	QQHWKEVAEIVN-KSRQ---CKYPK--------------	TDIQCKNRIDTVKKKYKQEK
AT1G76870	QRVKWMDKMVKLMITALSYIGEDS-----GSDKKFAV----------	LQKKGKWRSVSKVM-DERGYH--------------------	VSPQQCEDKFNDLNKRYKKLN
AT1G76880	GGNRWPRQETLALLKIRSDMGIAFRDASV----------	KGPLWEEVSRKM-AEHGYI--------------------	RNAKKCKEKFENVYKYYKRTK
AT2G33550	RLPRWTRQEILVLIQGKRVAENRVRRGRA-----AGMALG----------	SGQMEPKWASVSSYC-KRHGVN--------------------	RGPVQCRKRWSNLAGDYKKIK
AT2G35640	RKGNWTVSETLVLIEAKMDDQRRVRRS-----EKQPEGR----------	NKPAELRWKWIEEYC-WRRGCY--------------------	RNQNQCNDKWDNLMRDYKKIR
AT2G38250	RFPQWSVEETKELIGIRGELDQTFMETKR----------	NKLLWEVISNKM-RDKSFP--------------------	RSPEQCKCKWKNLVTRFKGCE
AT2G44730	PPPCWSLEETIALIDAYRDKWYALNRGNLK----------	ANHWEEVAEAVGANCP-----DVIL--------------	KKTAVQCRHKMEKLRRYRTEI
AT3G10000	GTGRWPRQETLMLLERSRLDHKFKEANQ----------	KGPLWDEVSRIMSEEHGYT--------------------	RSGKKCREKFENLYKYYKKTK
AT3G10030	DREEWSDAAIACLLDAYSDKFTQLNRGNLR----------	GRDWEEVASSVSERCE-----KLSK--------------	SVEQCKNKIDNLKKRYKLER
AT3G10040	HRMKWTDTMVRLLIMAVFYIGDEAGLNDP-----VDAKKKTGGGGGGGGGGGMLQKKGKWKSVSRAM-VEKGFS--------------------	VSPQQCEDKFNDLNKRYKRVN
AT3G11100	REDWWSEDATATLIEAWGDRYVNLNRGNLR----------	QNDWKEVADAVNSSHG-----NGRPK-------------	TDVQCKNRIDTLKKKYKTEK
AT3G14180	REDCWSEAATAVLIDAWGERYLELSRGNLK----------	QKHWKEVAEIVSSREDY-----GKIPK------------	TDIQCKNRIDTVKKKYKQEK
AT3G24490	VAYDWREQEAFVLLEVWGDRFLQLGRRSLR----------	NEDWNEVAEKVSEELRME----------------------	KSETQCRRMIDDLKRKYRKEK
AT3G24860	QPVLWTQDETLLLIESYKEKWFAIGRGPLK----------	STHWEEIAVAASSRSGVER--------------------	TSTQCRHKIEKMRKRFRSER
AT3G25990	RAETWAQDETRTLLSLRREMDNLFNTSKS----------	NKHLWEQISKKM-REKGFD--------------------	RSPSMCTDKWRNILKEFKKAK
AT3G54390	KRDEWSEGAVSTLEAYESKWVLRNRAKLK----------	GQDWEDVAKHVSSRATHT-----KSPK------------	TQTQCKNKIESMKKRYRSE-
AT3G58630	REDCWSEEATFTLIQAWGNRYVDLSRGNLR----------	QKHWQEVANAVNDRHYNTGRNVSAAKSQP----------	YRTDVQCKNRIDTLKKYKVEK
AT4G31270	VAPEWAVKDCLVLVNEIAAVEADSNALSS----------	FQKWTMITENCNALDVSR----------------------	NLNQCRRKWDSLMSDYNQIK
AT5G01380	RIPQWSIEETKELLAIREELDQTFMETKR----------	NKLLWEVVAAKM-ADKGFV--------------------	RSAEQCKCKWKNLVTRYKACE
AT5G03680	GTGRWPRQETLTLLEIRSRLDHKFKEANQ----------	KGPLWDEVSRIMSEEHGYQ--------------------	RSGKKCREKFENLYKYYRKTK
AT5G05550	REDWWSEEATATLVEAWGNRYVKLNHGNLR----------	QNDWKDVADAVNSRHGD-----NSRKK------------	TDLQCKNRVDTLKKKYKTEK
AT5G28300	HHHPWCSDEVLALLRFRSTVENWFPEFT----------	WEHTSRKL-AEVGFK------------------------	RSPQECKEKFEEERFRSNN
AT5G47660	LAGTLDRLPEMGFGCFEAPLGSKIADVE----------	ESGQLTRG-FSKEED------------------------	DSLPPLQMEFQARNRISWDG-
AT5G63420	NTPIFASSFTMELIKKRLKEHGIFVQSRLKTFSTRRRFMAGP----------	FEIEPITVTHSIPDCSGLFLRCADGNILHTGDWKIDEAPLDGKVFDREALEELSKEGVTLM
Glyma.01G121000	RFPQWSIQETKEFLVIREELDQTFMETKR----------	NKQLWEVISNRM-KEKGYH--------------------	RSAEQCKCKWKNLVTRYKGFE
Glyma.01G150500	AQPQWSQQETREFIAIRAELERDFTASKR----------	NKTLWEVVSAKM-RERGFR--------------------	RSPEQCKCKWKNLVNRYKGKE
Glyma.02G082000	GGNRWPRQETLALLKIRLDMDAVFRDSSL----------	KGPLWEEVSRKL-AELGYQ--------------------	RSAKKCKEKFENVYKYNKRTK
Glyma.02G082100	GGNRWPRQETLALLKIRSDMDVAFRDASV----------	KGPLWEEVSRKL-AELGYH--------------------	RNAKKCKEKFENVYKYHKRTK
Glyma.03G056900	RFPQWSIQETKEFLVIRAELDQTFMETKR----------	NKQLWEVISNRM-KEKGYH--------------------	RSAEQCKCKWKNLVTRYKGFE
Glyma.03G081500	QPIPWTHQETVHLIRAYQEKWYALKRGPLR----------	HNQWEEVAVVVAARCGY-----DLAHP------------	AKSALQCRHKMEKLRQRHRAEK
Glyma.03G189600	HRMKWTDTMVKFLIMAVYYIGDEAGSEGT-----DPTKKKASG----------	LLQKKGKWKSVSGGM-MEKGYY--------------------	VSPQQCEDKFNDLNKRYKRVN
Glyma.03G191700	STGRWPRQETLTLLEIRSRLDSKFKEANQ----------	KGPLWDEVSRNMSEEHGYQ--------------------	RSGKKCREKFENLYKYYKKTK
Glyma.03G246000	LTDSWTNDEVLALFRIRSSMENWFPELT----------	WDHVSRKL-AEVGFK------------------------	KSAEKCKEKFEDESR-YFDN-
Glyma.04G135400	KRDEWSEGAVTTLLEAYEAKWVHRNRAKLK----------	GHDWEDVAKHVSARANST-----KSPK------------	TQTQCKNKIESMKKRYRSES
Glyma.04G194600	NTPIFASSFTLELMKKRLKEHGIFVPSRLKVFRTRKKFVAGP----------	FEIEPIRVTHSIPDCCGLVLRCSDGTILHTGDWKIDETPLDGKVFDREALEELSKEGVTLM
Glyma.04G216100	AANRWPREETMALLNIRSEMDVAFKDANL----------	KAPLWEQVSRKL-SELGYN--------------------	RSAKKCKEKFENIYKYHRRTK
Glyma.05G200400	RHPRWTRQETLVLIESKKMVENGEQVCR----------	FRSASG---------- CVQTDPKWDMVSSLC-QQRGVK--------------------	RGAVQCRKRWGNLLTDFRKIK
Glyma.06G149900	AANRWPREETMALLKIRSEMDVAFKDANP----------	KAPLWEQVSRKL-AELGYN--------------------	RSAKKCKEKFENVYKYHRRTK
Glyma.06G171400	NTPIFASSFTMELIKKRLKEHGIFVPSRLKVFRTRKKFVAGP----------	FEIEPIRVTHSIPDCCGLVLRCSDGTILHTGDWKIDETPLDGKVFDREALEELSKEGVTLM
Glyma.07G042800	REDCWSEGATAVLIDAWGERYLELSRGNLK----------	QKHWKEVADIVSVREDY-----TKAPK------------	TDIQCKNRIDTVKKKYKSEK
Glyma.07G087900	SGEEWNESETFVLLEVWGDKFLQLGRNSLR----------	SEEWHEVAEKVSEELKTE----------------------	RTVTQCRSVFDKLKRRYKKEK
Glyma.07G151100	RFPQWSIQETKEFLMIRAELDQTFMETKR----------	NKQLWEVISTRM-KEKGFH--------------------	KSAEQCKCKWKNLVTRYKGCE
Glyma.08G007800	RHPRWTRQETLVLIESKKMVESGEQVCR----------	FRSASG---------- YVQTDPKWDMVSSLC-QQRGVK--------------------	RGAVQCRKRWGNLLTDFRKIK
Glyma.08G051800	PPPCWSPDETLALIDAYRDKWYSLGRGNLK----------	ATHWQEVADAVSSRCP-----NASP--------------	PKTPVQCRHKMEKLRRYRTEI
Glyma.08G257500	RLPRWTRQEILVLIQGKSDAESRFRPGRG----------	SGSAFG---------- SS--EPKWALVSSYC-KKHGVN--------------------	REPVQCRKRWSNLAGDYKKIK
Glyma.09G014300	DP----------IPSGSGHAPCH----------	ESS----------	SSLDAE--------
Glyma.09G116400	AANRWPREETMALLKIRSEMDVAFKDANL----------	KAPLWEQVSRKL-SELGYN--------------------	RSAKKCKEKFENIYKYHRRTK
Glyma.09G188900	SGEEWNEHETFVLLEVWGDKFLQLGRNSLR----------	SEEWHEVAEKVSEELKTE----------------------	RTVTQCRSVLDKLKRRYRKEK
Glyma.09G245300	PPPCWTPEETSALIDAYRDKWYSLGRTNLK----------	ATHWQEVADSVTAQCP-----NASPT------------	AKTPVQCRHKMEKLRRYRTEI
Glyma.10G064900	QRMKWTDTMVRLLIMAVYYIGDEAGSEGT-----D--KKKASG----------	LMQKKGKWKS----------	QCEDKFSDLNKRYRYRVN
Glyma.10G065100	DREEWSDTAIVCLLEAYTEKFTQLNRGNLR----------	GRDWEEVAAVVSERCE-----NQSK--------------	SVEQCKNKVDNLKKRYKLER
Glyma.10G066800	FTGRWPRQETLTLLEIRSRLDPKFKEANH----------	KGPLWDEVSRIMCEEHGYQ--------------------	RSGKKCREKFENLYKYYKKTK
Glyma.10G161200	LIDPWTTDEVLTLLRIRSSMESWFPELT----------	WEHVSRKL-AELGYK------------------------	RSAEKCKEKFEEESR-YFNNN
Glyma.10G201400	DREEWSDTAIAYLLEAYTEKFNQLNRGNLR----------	GRDWEEVAEAVLERCGGE---GKHQK------------	SVEQCKNKIDNLKKRYKVEL
Glyma.10G202300	GNNRWPRQETLSLLEIRSRLDSKFRENNQ----------	KAPLWNEISRIMAEEFGYQ--------------------	RSGKKCKEKFENLYKYYKKTK
Glyma.10G225100	GGNRWPRQETLALLKIRSDMDVVFRDSSL----------	KGPLWEEVARKL-SELGYH--------------------	RSAKKCKEKFENVYKYHKRTK
Glyma.10G225200	GGNRWPRQETLALLRIRSDMDVAFRDASV----------	KGPLWEEVSRKM-AELGYH--------------------	RSSKKCKEKFENVYKYHKRTK
Glyma.10G225300	QRVKWTDKMVKLLITAVSYIGEDVTADGG---SSGRRKFAV----------	LQKKGKWKSVSKVM-AERGYH--------------------	VSPQQCEDKFNDLNKRYKKLN
Glyma.10G298700	RLPRWTRQEILVLIQGKRDAENKFRRGRT----------	SGQVEPKWASVSSYC-RKHGVN--------------------	RGPVQCRKRWSNLAGDYKKIK
Glyma.11G156700	KRDEWSEGAVTTLLEAYEAKWVLRNRAKLK----------	GHDWEDVAKHVSARANST-----KSPK------------	TQTQCKNKIESMKKRYRSES
Glyma.11G247300	RAETWVQDETRSLIGLRREMDALFNTSKS----------	NKHLWEQISAKM-REKGFD--------------------	RSPTMCTDKWRNLLKEFKKAK
Glyma.12G210900	REDCWSEEATFTLIEAWGQRHLELNRGNLR----------	QRHWQEVADAVNALHG-----HVSAKAR------------	RTDVQCKNRIDTLKKKYKIEK
Glyma.13G149700	QRMKWTDTMVRLLIMAVYYIGDEAGSEGT-----D--KKKSSG----------	LMQKKGKWKSVSRAM-MEKGFY--------------------	VSPQQCEDKFNDLNKRYKRVN
Glyma.13G149900	DREEWSDTAIVCLLEAYTEKFTQLNRGNLR----------	GRDWEEVAAVVSERCE-----NQSK--------------	SVEQCKNKVDNLKKRYKLER
Glyma.13G195800	KRDEWSEGAVSTLEAYEAKWVLRNRAKLK----------	GHDWEDVARHVSSRANCT-----KSPK------------	TSTQCKNKVESMKKRYRSE-
Glyma.13G229600	REDCWSEEASSTLVDAWGRRYLELNRGNLR----------	QKDWQDVADAVNALHG-----HTKKTHR------------	TDVQCKNRIDTIKKKYKIEK
Glyma.13G290500	REDCWSEEATFTLIEAWGQRHLELNRGNLR----------	QRHWQEVADAVNARHG-----HVSTKAR------------	RTDVQCKNRIDTLKKKYKIEK
Glyma.13G340600	QRMKWADNVVRLLITVVSCVGDDGTIGGM---DGHKRKSGV----------	LQKKGKWKMVSKIM-IGKGCH--------------------	VSPQQCEDKFNDLNKRYKRLN
Glyma.13G359800	SLTDWTERETFVLLDAWGDRFLQHGRKSLR----------	CEEWQQIAKMVSQVSKIE----------------------	RTDTQCRNRLDTLKKKYKKEK
Glyma.15G014200	SLTDWTEQETFVLLDAWGDRFLQHGRKSLR----------	CEEWQQVAKMVSQVSKIE----------------------	RTDTQCRNRLDTLKKKYKKEK
Glyma.15G033800	QRMKWTDNVVRLLITVVSCVGDDGTIGGM---DCHKRKSGV----------	LQKKGKWKTVSKIM-IGKGCH--------------------	VSPQQCEDKFNDLNKRYKRLN
Glyma.15G082900	REDCWSEEASATLVDAWGRRYLELNRGNLR----------	QKDWQDVADAVNALHG-----HTKKTHR------------	TDVQCKNRIDTIKKKYKIEK
Glyma.15G119000	DP----------IPSGSGHAPCH----------	ESS----------	LSFDAE--------
Glyma.15G234100	KRDEWSEGAVSTLEAYEAKWVLRNRAKLK----------	GHDWEDVARHVSARANCT-----KSPK------------	TSTQCKNKVESMKKRYRSES
Glyma.16G011200	REDCWSEGATAVLIDAWGERYLELSRGNLK----------	QKHWKEVAEIVSGREDF-----TKAPK------------	TDIQCKNRIDTVKKKYKSEK
Glyma.16G093600	QPIPWTHQETVHLIRAYQEKWYALKRGPLR----------	HNQWEEVAVVVAARCGY-----DLAHP------------	AKSALQCRHKMEKLRQRHRAEK
Glyma.16G167500	GGNRWPRQETLALLKIRSDMDTVFRDSSL----------	KGPLWEEVSRKL-AELGYQ--------------------	RSAKKCKEKFENVYKYNKRTK
Glyma.16G167600	GGNRWPKQETLALLKIRSDMDVAFRDASV----------	KGPLWEEVSRKL-AELGYN--------------------	RNAKKCKEKFENVYKYHKRTK
Glyma.16G167700	QQVKWTDKMVKLLIMVMSYIGEDATFDN-----SSKRRKFTV----------	LQNKGKWKSISKVM-AERGYH--------------------	VSPQQCEDKFNDLSKSYKKLN
Glyma.17G128500	HTPIFASSFTMELIRKRLKDHGIFVPSRLKVFRTRKKFMAGP----------	FEVEPITVTHSIPDCCGLVLRCSDGTILHTGDWKIDETPLDGRVFDREALEELSKEGVTLM
Glyma.17G194700	AEPDWSVTESLILVNEVAAVEADCSVALSS----------	YQQWNIIAENCAALDVPR----------------------	SLPQCRRKWRALLNDYDGAR
Glyma.18G010000	RAETWVQDETRSLIGLRREMDSLFNTSKS----------	NKHLWEQISAKM-REKGFD--------------------	RSPTMCTDKWRNLLKEFKKAK
Glyma.18G202400	RFPQWSIQETKEFLVIREELDQTFMETKR----------	NKQLWEVISNRM-KEKGFH--------------------	RSAEQCKCKWKNLVTRYKGCE
Glyma.18G281800	RLPRWTRQEILVLIQGKSDAESRFRPGRG----------	SGSAFG---------- SG--EPKWALVSSYC-KKHGVN--------------------	REPVQCRKRWSNLAGDYKKIK
Glyma.19G190000	HRMKWTDTMVKLLIMAVYYIGDEAGSECT-----DPTKKKASG----------	LLQKKGKWKSVSKGM-MEKGYY--------------------	VSPQQCEDKFNDLNKRYKRVN
Glyma.19G192300	STGRWPRQETLTLLEIRSRLDSKFKEANQ----------	KGPLWVEVSRIMSEEHGYQ--------------------	RSGKKCREKFENLYKYYKKTK
Glyma.19G243500	LTDSWTNDEVLALFRIRSSMENWLPELT----------	WDHVSRRL-AEVGFK------------------------	KSAEKCKEKFEDESR-YFDN-
Glyma.20G166500	QRVKWTDKMVRLLITAVSYIGEDVTADGG---SSGRRKFAV----------	LQKKGKWKSVSKVM-AERGYH--------------------	VSPQQCEDKFNDLNKRYKKLN
Glyma.20G166600	GGNRWPRQETLALLRIRSDMDVAFRDASV----------	KGPLWEEVSRKM-AELGYH--------------------	RSSKKCKEKFENVYKYHKRTK
Glyma.20G166800	GGNRWPRQETLALLKIRSDMDAVFRDSSL----------	KGPLWEEVARKL-SELGYH--------------------	RSAKKCKEKFENVYKYHKRTK
Glyma.20G184500	RKGNWTIQETLILITAKKLDDERRLKTP----AACSTSTTTT----------	RTSGELRWKWVENYC-WSHGCL--------------------	RSQNQCNDKWDNLLRDYKKVR
Glyma.20G188100	GNNRWPRQETLSLLEIRSRLDSKFRENNQ----------	KAPLWNEISRIMAEEFGYQ--------------------	RSGKKCKEKFENLYKYYKKTK
Glyma.20G189000	DREEWSDTAIACLLEAYTEKFNLLYRGNLR----------	SRDWEEVAEAVGGRCGGE---GKHQK------------	SVEQCKNKIDNLKKRYKVEL
Glyma.20G224000	LIDPWNNDEVALLRIRSSMESWFPELT----------	WEHVSRKL-AELGYK------------------------	RSAEKCKEKFEEESR-YFNN-
Glyma.20G249900	RLPRWTRQEILVLIQGKRDAENKFRRGRT----------	AGLAFG---------- SGQVEPKWASVSSYC-RKHGVN--------------------	RGPVQCRKRWSNLAGDYKKIK