	10 20 30 40	50 60 70 80	
Glyma.01G180400	MGACASSPSÄKTTAASVNKGGGGGGAPASESFRRPSSIMV	MDMLGRINEYKQPIPARNVLSENPHFYLCNSETVHIGTCMPRVPDE 86	:
Glyma.02G060800	MVHGA		
3			
Glyma.16G143300			
Glyma.10G047000	MTYTMRPFLFSI	LFTFLATVFAQPLQPSSTPTSFPIDSNAPQRSSPQTPP 50	
Glyma.13G252600	MMSPCNVI	. <mark>L</mark> SIFFLVCTRTPLLSLAQ	;
Glyma.15G062300		LSIFFLVCTTTPPLSLAQ26	;
Glyma.07G186400	MQKIGEGKLLSFSSKHQPSSNINFSTNRNGVTQGS	S <mark>I</mark> LYLLLCLGPSHSGHAH52)
Glyma.07G186300	MGSAKFAL		
J	MGSHKVSFFV		
Glyma.07G186200			
Glyma.15G062700	MGS.GIKVSFSV	. <mark>L</mark> CLLGLVIVGD	
Glyma.15G062500	MGLYKISLCL		
Glyma.15G062900	MLKIQH	. .	;
Glyma.13G252400	MGYMCIKISFCV	MCVLGLVIVGDVAYAQ	3
Glyma.13G252300	MGYMCIKISFCV		
Glyma.13G251700		MCVLGLVIVGDVAYAQ28	
3			
Glyma.13G252000		MCVLGLVIVGDVAYAQ28	
Glyma.13G251600	MGYMCIKISFCV		
Glyma.15G062800	MGYLCIKVSFCV		
Glyma.13G252500	MGLCKVSFSV	LCVLGLVIVSHVAYAL26	;
Glyma.15G062400	MGLCKVSFPV	LCVLGLVMIVSHVANAQ27	•
Glyma.13G094200	MKHCISKHFLSCFA	ALFLLLVATTYATVVPTTTO	
Glyma.17G066000	MRHCLA	AMFLFLVTTTYANTVVPTTTQ	
Glyma.17G066100	MRQYIEYQSSY	VGVALQSH	
Glyma.13G094100	MKAHLV	LFLLMILVTFTSNVNTLSINPKSNSSIPQLTQ	3
consensus		*	
	90 100	110 120 130	
Glyma 01G180400	90 100 FFI I PCRIVFI VDI SHSDSP	110 120 130 I SI PI I CDI AVKA ČSAI PNPNNNŠ V NGCIMWF 138	2
Glyma.01G180400	EELĹPGRIYFLVPĹSHSDSP	LSLPLCDLAVKAGSALPNPNNNSYNGCIMWF 138	
Glyma.02G060800		E <mark>F</mark> 3/	•
Glyma.02G060800 Glyma.16G143300	APPAPP	EF	3
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000	ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRH		3
Glyma.02G060800 Glyma.16G143300	APPAPPAPPAPPAPPAPPAPPAPPATSFPADSNAPNLPSPSSENRSLQGVGRH	APELSAEAR	3
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000	ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRH	APELSAEAR	3
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.15G062300	APPAPPAPPAPPAPPAPPAPPAPPATSFPADSNAPNLPSPSSENRSLQGVGRH	LAPELSAEAREF	
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.15G062300 Glyma.07G186400	APP. APP. APP. ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRHNTPNTPDSQ.	LAPELSAEAR EF 37	3
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.15G062300 Glyma.07G186400 Glyma.07G186300	APP. APP. ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRHNTPNTPDSQNSP.	LAPELSAEAR EF 37	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.15G062300 Glyma.07G186400 Glyma.07G186300 Glyma.07G186200	APP. APP. ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRH .NTPNTPDSQNSPCSQ.	CAPELSAEAR CAP	
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.15G062300 Glyma.07G186400 Glyma.07G186300 Glyma.07G186200 Glyma.15G062700	APP. APP. ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRH . NTP DSQ NSP CSQ DSP.	CAPELSAEAR CAP	
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.15G062300 Glyma.07G186400 Glyma.07G186300 Glyma.07G186200 Glyma.15G062700 Glyma.15G062500	APP APP ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRH	CAPELSAEAR EF	33 33 33 33 33 33 33 33 33 33 33 33 33
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.15G062300 Glyma.07G186400 Glyma.07G186300 Glyma.07G186200 Glyma.15G062700	APP ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRHNTPNTPDSQNSPCSQDSPDSP	CAPELSAEAR EF 37 37 37 37 38 38 38 38	
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.15G062300 Glyma.07G186400 Glyma.07G186300 Glyma.07G186200 Glyma.15G062700 Glyma.15G062500	APP APP ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRH	CAPELSAEAR EF 37 37 37 37 38 38 38 38	
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.07G186400 Glyma.07G186300 Glyma.07G186200 Glyma.15G062700 Glyma.15G062500 Glyma.15G062900 Glyma.13G252400	APP ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRHNTPNTPDSQNSPCSQDSPDSP	CAPELSAEAR EF 37 37 37 37 37 37 37 3	
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.07G186400 Glyma.07G186300 Glyma.07G186200 Glyma.15G062700 Glyma.15G062500 Glyma.15G062500 Glyma.13G252400 Glyma.13G252300	APP ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRHNTPNTPDSQNSPCSQDSPDSP	LAPELSAEAR	
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.07G186400 Glyma.07G186300 Glyma.07G186200 Glyma.15G062700 Glyma.15G062500 Glyma.15G062500 Glyma.13G252400 Glyma.13G252300 Glyma.13G252300 Glyma.13G251700	APP ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRH NTP NSQ	CAPELSAEAR EF 37 37 37 38 38 38 38 38	
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.07G186400 Glyma.07G186300 Glyma.07G186200 Glyma.15G062700 Glyma.15G062500 Glyma.15G062500 Glyma.13G252400 Glyma.13G252300 Glyma.13G252000 Glyma.13G252000	APP ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRH NTP NSQ	LAPELSAEAR	
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.07G186400 Glyma.07G186300 Glyma.07G186200 Glyma.15G062700 Glyma.15G062500 Glyma.15G062500 Glyma.13G252400 Glyma.13G252300 Glyma.13G252000 Glyma.13G251700 Glyma.13G252000 Glyma.13G251600	APP ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRH . NTP . NTP . DSQ . NSP . CSQ . DSP . DSP . DSA	CAPELSAEAR EF	
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.07G186400 Glyma.07G186300 Glyma.07G186200 Glyma.15G062500 Glyma.15G062500 Glyma.13G252400 Glyma.13G252400 Glyma.13G252400 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000	APP ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRH . NTP . NTP . DSQ . NSP . CSQ . DSP . DSP . DSA	CAPELSAEAR EF	
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.07G186400 Glyma.07G186300 Glyma.07G186200 Glyma.15G062700 Glyma.15G062500 Glyma.15G062500 Glyma.13G252400 Glyma.13G252300 Glyma.13G252000 Glyma.13G251700 Glyma.13G252000 Glyma.13G251600	APP ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRH . NTP . NTP . DSQ . NSP . CSQ . DSP . DSA	CAPELSAEAR EF	
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.07G186400 Glyma.07G186300 Glyma.07G186200 Glyma.15G062500 Glyma.15G062500 Glyma.13G252400 Glyma.13G252400 Glyma.13G252400 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000	APP ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRH . NTP . NTP . DSQ . NSP . CSQ . DSP . DSA . DSP . DSP	CAPELSAEAR EF	
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.07G186400 Glyma.07G186300 Glyma.07G186200 Glyma.15G062500 Glyma.15G062500 Glyma.13G252400 Glyma.13G252300 Glyma.13G252300 Glyma.13G251700 Glyma.13G251600 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000	APP ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRH . NTP . NTP . DSQ . NSP . CSQ . DSP . DSA . DSP . DSP	CAPELSAEAR EF	
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.07G186400 Glyma.07G186300 Glyma.07G186200 Glyma.15G062700 Glyma.15G062700 Glyma.13G252000 Glyma.13G252300 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000	APP ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRHNTPNTPDSQNSPCSQDSPDSA	CAPELSAEAR EF	
Glyma.02G060800 Glyma.16G143300 Glyma.1G047000 Glyma.13G252600 Glyma.15G062300 Glyma.07G186400 Glyma.07G186200 Glyma.15G062700 Glyma.15G062500 Glyma.13G252400 Glyma.13G252300 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G094200 Glyma.13G094200 Glyma.17G066000	APP ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRH . NTP . NTP . DSQ . NSP . CSQ . DSP . DSA . DSP . DSP . MSP	CAPELSAEAR EF	
Glyma.02G060800 Glyma.16G143300 Glyma.10G047000 Glyma.13G252600 Glyma.07G186400 Glyma.07G186300 Glyma.07G186200 Glyma.15G062500 Glyma.15G062500 Glyma.13G252400 Glyma.13G252400 Glyma.13G2525000 Glyma.13G062800 Glyma.13G094200 Glyma.17G0660000 Glyma.17G066100	APP ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRHNTPNTPDSQNSPCSQDSPDSA	CAPELSAEAR EF	
Glyma.02G060800 Glyma.16G143300 Glyma.1G047000 Glyma.13G252600 Glyma.15G062300 Glyma.07G186400 Glyma.07G186200 Glyma.15G062700 Glyma.15G062500 Glyma.13G252400 Glyma.13G252300 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G252000 Glyma.13G094200 Glyma.13G094200 Glyma.17G066000	APP ATSFPADSNAPQQPSPQTPPATSFPADSNAPNLPSPSSENRSLQGVGRH . NTP . NTP . DSQ . NSP . CSQ . DSP . DSA . DSP . DSP . MSP	CAPELSAEAR EF	

consensus

	140 150	160	170 180	190 200	210 220	
Glyma.01G180400	PİFMDVKT <mark>AR</mark> AĖ <mark>V</mark> G	<mark>V</mark> EA <mark>LSW</mark> SĖK <mark>LG</mark> NV <mark>S</mark> SLN	IVRYQRNKKGCĖFANLTAS.	. R <mark>YG</mark> G <mark>N</mark> QLWAGVT . EVAPRVV	VEEWVKEKKFYVRENN	222
Glyma.02G060800	<mark>L</mark> EA <mark>HN</mark> QARAA <mark>V</mark> G	<mark>V</mark> EP <mark>LRW</mark> SEQ <mark>LA</mark> NVTSKI	. <mark>A</mark> RYQRDKLGCEFANLST <mark>G</mark> .	.K <mark>YG</mark> ANQLLAW <mark>G</mark> T.AVTPRM <mark>A</mark>	VEEW <mark>V</mark> K <mark>QK</mark> QFYNHADN	119
Glyma.16G143300	<mark>L</mark> EA <mark>HN</mark> QARAA <mark>V</mark> G	VEPLRWSEQ <mark>VA</mark> NVTSKI	. <mark>A</mark> RYQRVKTGCQFANLTA <mark>G</mark> .	. K <mark>YG</mark> ANQLLAR <mark>G</mark> SAAVTPRM <mark>A</mark>	VEEW <mark>V</mark> K <mark>QK</mark> QFYNHADN	121
Glyma.10G047000	<mark>L</mark> HA <mark>HN</mark> W <mark>TR</mark> KQYN	LPEYTWDEKLASYARGY	LMQ <mark>R</mark> YED <mark>C</mark> K <mark>L</mark> VHSNS.	. N <mark>YG</mark> ENVFWGKKL . HWSPSD <mark>A</mark>	TYY <mark>W</mark> YQ <mark>EK</mark> QW <mark>Y</mark> NFQTL '	217
Glyma.13G252600	<mark>L</mark> DV <mark>HN</mark> QARAE <mark>V</mark> G	VGPLSWNHTLQAYAQSY	<mark>(A</mark> NK <mark>R</mark> IPD <mark>CNL</mark> EHSM <mark>G</mark> .	.P <mark>FG</mark> E <mark>N</mark> ISEGY <mark>A</mark> EMKGSDA	VKFW <mark>L</mark> T <mark>EK</mark> PYYDHHSN	110
Glyma.15G062300	<mark>L</mark> DV <mark>HNQ</mark> ARAE <mark>V</mark> G	VGPLSWNHTLQAYAQRY	<mark>(A</mark> NE <mark>R</mark> IPD <mark>CNL</mark> EHSM <mark>G</mark> .	.P <mark>FG</mark> E <mark>N</mark> LAEGY <mark>G</mark> EMKGSD <mark>A</mark>	VKFW <mark>L</mark> T <mark>EK</mark> PYYDHYSN	110
Glyma.07G186400	FNVHNAARSQ <mark>V</mark> G	VPPLTWDNTLAAFAQSY	<mark>(A</mark> NL <mark>R</mark> NVI <u>A</u> N <mark>L</mark> STH <u>.</u> .	<u></u> <u>.</u> ADHT	VRA <mark>WV</mark> NE <mark>K</mark> ANYDYNSN	120
Glyma.07G186300	<mark>L</mark> DA <mark>HN</mark> AARAÈ <mark>V</mark> G	VEPLAWDDTVAAYAQQY	<mark>(A</mark> DS <mark>R</mark> IKE <mark>CQV</mark> VHSQ <mark>G</mark> .	.P <mark>YG</mark> E <mark>N</mark> LVASP <mark>G</mark> DVSGTD <mark>A</mark>	VKMW <mark>V</mark> AE <mark>K</mark> ANYDHKAN	108
Glyma.07G186200	<mark>L</mark> NG <mark>QN</mark> DARSD <mark>V</mark> DVQVP	LPPLVWNNTLAEYAQDY	AKQRKSNCQLVHSNG.	.P <mark>YG</mark> E <mark>N</mark> LAGST <mark>G</mark> DISCAN <mark>A</mark>	VKLW <mark>V</mark> DE <mark>K</mark> PYYDRNSN	114
Glyma.15G062700	<mark>V</mark> NA <mark>HN</mark> AARSQ <mark>V</mark> G	VPNIVWDDTVAAFAQNY	ANQRKGDCK <mark>L</mark> VHS.GGD <mark>G</mark> .	.K <mark>YG</mark> ENLAGST <mark>G</mark> NLSGTN <mark>A</mark>	VKLW <mark>V</mark> DE <mark>K</mark> SKYDYNSN	114
Glyma.15G062500	<mark>V</mark> NA <mark>HN</mark> AARSQ <mark>V</mark> G	VPNIVWDNAVAAFAQNY	ANQRKGDCK <mark>L</mark> VHS.GGDG.	.K <mark>YG</mark> ENLAGST <mark>G</mark> NLSGKDA	VQLW <mark>V</mark> NEKSKYNYNSN	113
Glyma.15G062900	<mark>V</mark> DA <mark>HN</mark> AARSE <mark>V</mark> G	VPDLAWDDSVAAYAENY	ANQRKGDCA <mark>L</mark> IHSGG.	.E <mark>YG</mark> ENIAMST <mark>G</mark> ELSGTDA	VKMW <mark>V</mark> DEKANYDHDSN	84
Glyma.13G252400	<mark>V</mark> NA <mark>HN</mark> AARAE <mark>V</mark> GSQSPRQTVI	VPSLAWDDTVAAYAES)	ANQRKGDCQLIHSGG.	.E <mark>YG</mark> ENIAMST <mark>G</mark> ELSGTDA	VKMW <mark>V</mark> DEKSNYDYDSN	121
Glyma.13G252300	<mark>V</mark> NA <mark>HN</mark> AARAE <mark>V</mark> GSQSPRQTVI	VPSLAWDDTVAAYAES)	ANQRKGDCQLIHSGG.	.E <mark>YG</mark> ENIAMST <mark>G</mark> ELSGTDA	VKMW <mark>V</mark> DEKSNYDYDSN	121
Glyma.13G251700	<mark>V</mark> NA <mark>HN</mark> AARAE <mark>V</mark> GSQSPRQTVI	VPSLAWDDTVAAYAES)	ANQRKGDCQLIHSGG.	.E <mark>YG</mark> ENIAMST <mark>G</mark> ELSGTDA	VKMW <mark>V</mark> DEKSNYDYDSN	121
Glyma.13G252000	<mark>V</mark> NA <mark>HN</mark> AARAE <mark>V</mark> GSQSPRQTVI	VPSLAWDDTVAAYAES)	ANQRKGDCQLIHSGG.	.EYGENIAMSTGELSGTDA	VKMWVDEKSNYDYDSN	121
Glyma.13G251600	<mark>V</mark> NA <mark>HN</mark> AARAE <mark>V</mark> GSQSPRQTVI	VPSLAWDDTVAAYAES)	ANQRKGDCQLIHSGG.	.EYGENIAMSTGELSGTDA	VKMWVDEKSNYDYDSN	121
Glyma.15G062800	<mark>V</mark> NA <mark>HN</mark> AARAE <mark>V</mark> SSQSPRANVI	VPSLAWDDTVAAYAES)	ANQRKGDCALIHSGG.	.K <mark>YG</mark> ENIAMST <mark>G</mark> ELSGTD <mark>A</mark>	VKMWVDEKANYDYNSN	121
Glyma.13G252500	VNAHNAARSEVG	VQNLAWDDTVAAFAQNY	ANURKGDCU			70
Glyma.15G062400	<mark>V</mark> NAHNAARSE <mark>V</mark> G	VQNLAWDDTVAAFAQNY	ANURKGDCULIHS.GGGG.	.QYGENLAMSTGDLSGTDA	VKLWVDEKSNYDYNSN	113
Glyma.13G094200	<mark>L</mark> IPQNAARAV <mark>L</mark> R	LRPLVWDSKLAHYAQWY	ANURRNDCALERSNG.	.PYGENIFWGSGT.GWKPAQA	VSAW <mark>V</mark> EERQWYNYWHN	122
Glyma.17G066000	<mark>L</mark> IPQ <mark>N</mark> A <mark>AR</mark> AV <mark>L</mark> R	LRPLVWDSKLAHYAQWY	ANURRNDCALEHSNG.	.PYGENIFWGSGT.GWEPAQA	VSAW <mark>W</mark> EERQWYNYWHN	115
Glyma.17G066100	LFRHNLVRAAKW	ELPLMWDFQLEQYARW	AGURKADCKLEHSFPEDGE	KLGENIYWGSGS.AWTPSDA	VRAWADEEKYYTYATN	104
Glyma.13G094100	<mark>L</mark> FR <mark>HN</mark> LV <mark>R</mark> AAKW					148
consensus	* ** *! *	* *! ** ** *	* * * * *	** * * *	* ** ** *	
Glyma.01G180400	TCV.GKHECGVYTQVVWRNSTEV	CCNOAVCVK FOASITI	CEVDDDCMVTCFTDV	275		
Glyma.02G060800	SCV.PNHRCGVYTQVVWRKSLEL	CCARATOVK FOASITI	CEVNDDCNVICESDV	172		
Glyma.16G143300	SCA.PNHRCGVYTQVVWRKSVEL			174		
Glyma.10G143300	SCAPPPKACGHFTQVVWRDSQRI					
Glyma.13G252600	ACV. HD. ECLHYTQIVWRDSVHL			161		
Glyma.15G252000	ACV.HD.ECLHYTQIVWRDSVHL			4.04		
Glyma.07G186400	TCS.SVCGHYTQVVWRNSLRV	GCAKVRCDN G STFT	CCYDERGNIRGORPY			
41, ma. 01 4100 400				• • • • • • • • • • • • • • • • • • • •		

	230	240	250	260	270	
Glyma.01G180400					PGNVIGEIPY	275
Glyma.02G060800					PGNYIGESPY	172
Glyma.16G143300	SCA.PNHRCGVYTQN	VWRK <mark>S</mark> VELGC	AQATCVK.:	EQASLTICFYNP	PGNYVGESPY	174
Glyma.10G047000	SCAPPPKACGHFTQ\	VWRDSQRIGC	ALQHCHNP:	SLGMLIACEYDP	AGNYENEDPLKQHER	277
Glyma.13G252600					PGNIEGERPY	161
Glyma.15G062300	ACV.HD.ECLHYTQ	VWRDSVHLGC	ARAKCNN.	G.WVFVI <mark>C</mark> SYSP	PGNIEGERPY	161
Glyma.07G186400	TCS.SVCGHYTQN	VWRN <mark>S</mark> LRVGC	AKVRCDN.	G.STFII <mark>C</mark> CYDP	RGNIRGQRPY	170
Glyma.07G186300	KCV.NNQECMHYAQI	.VWSN <mark>T</mark> FLVGC	ARSKCDN.	G.WTFVI <mark>C</mark> SYDP	PGNFQGEQPY	160
Glyma.07G186200	SCV.GG.VCGHYTQN	VWRD <mark>S</mark> TQVGC	AKVECDN.	G.GTFIC <mark>C</mark> NYYP	PGNYVGQRPY	165
Glyma.15G062700					PGNYVGQRPY	165
Glyma.15G062500	SCV.GG.ECLHYTQN	VWRN <mark>S</mark> LR L GC	AKVRCNN.	G.GTFIG <mark>C</mark> NYAP	PGNYIGQRPY	164
Glyma.15G062900	SCV.GG.ECLHYTQN	VWRDSVRLGC	AKVTCDN.	G.GTFIT <mark>C</mark> NYDP	L	126
Glyma.13G252400	SCV.GG.ECLHYTQN	VWAN <mark>S</mark> VRLGC	AKVTCDN.	G.GTFIT <mark>C</mark> NYDP	PGNFVGERPYKL	174
Glyma.13G252300	SCV.GG.ECLHYTQN	VWAN <mark>S</mark> VRLGC	AKVTCDN.	G.GTFIT <mark>C</mark> NYDP	PGNFVGERPYKL	174
Glyma.13G251700	SCV.GG.ECLHYTQN	VWAN <mark>S</mark> VRLGC	AKVTCDN.	G.GTFIT <mark>C</mark> NYDP	PGNFVGERPYKL	174
Glyma.13G252000	SCV.GG.ECLHYTQN	VWAN <mark>S</mark> VRLGC	AKVTCDN.	G.GTFIT <mark>C</mark> NYDP	PGNFVGERPYKL	174
Glyma.13G251600					PGNFVGERPYKL	174
Glyma.15G062800	SCV.GG.ECLHYTQN	VWAH <mark>S</mark> LRLGC	AKVTCDN.	G.GTFIT <mark>C</mark> NYDP	P <mark>GN</mark> LV <mark>G</mark> ES <mark>PY</mark> EL	174
Glyma.13G252500	RGESCNEH			G . .		79
Glyma.15G062400	SCV.GG.ECLHYTQN	VWRDSVRLGC	AKVACDN.	G.GTFIT <mark>C</mark> NYAP	PGNYVGQRPY	164
Glyma.13G094200	SCA.NGQMCGHYTQ1	VWST <mark>T</mark> RKIGC	ASVV <mark>C</mark> SG.	GKGTFMTCNYDP	PGNYYGERPY	175
Glyma.17G066000	SCA.NGQMCGHYTQ1	VWST <mark>T</mark> RKVGC	ASVV <mark>C</mark> SA.	GKGTFMTCNYDP	PGNYYGERPY	168
Glyma.17G066100	TCV.PGQMCGHYTQ	VWKST				123
Glyma.13G094100	TCV.PGQMCGHYTQ1	VWKS <mark>T</mark> RR <mark>IGC</mark>	ARVVCDD.	G.DVFMT <mark>C</mark> NYD <mark>P</mark>	V <mark>GN</mark> YV <mark>G</mark> ER <mark>PY</mark>	200
consensus		*** * ***			** * **	

 $\overline{\mathbf{X}}$ non conserved

X similar

X ≥80% conserved