	150	160	170	180 190	0 200	210 220	
Glyma.01G180400	FMDVKTARAĖVG	VEALSWSEKLG	NVSSLMVRYQRNKKG	CEFANLTAS.R <mark>YG</mark>	GNQLWAGVT.EVAPRVVVI	EEWVKEKKFYVRENNTC	224
Glyma.02G060800	LEAHNQARAA <mark>V</mark> G	VEPLRWSEQLA	NVTSKLARYQRDKLG	CEFANLSTG.KYG	ANQLLAW <mark>G</mark> T.AVTPRMAVE	EEWVKUKUFYNHADNSC	121
Glyma.16G143300	LEAHNQARAAVG						123
Glyma.10G047000	LHAHNWĪRKQŸN	LPEYIWDEKLA	ASY ARGY LMURY EDCK	LVHSNS.NYG	ENVFWGKKL.HWSPSDAIN	YWYUEKUWYNFUILSC	219
Glyma.13G252600	LDVHNQARAEVG	V GPLSWNHILQ	JAYAUSYANKRIPDON	LEHSMG.PFG	ENISEGYAEMKGSDAVK	AFWL TEKPYYDHHSNAC	112
Glyma.15G062300	LDVHNQARAEVG	VGPLSWNHILQ	JAYAUKYANERIPDON	LEHSMG.PFG	ENLAEGYGEMKGSDAV	A F WE TEKPYYDHY SNAC	112
Glyma.07G186400	FNVHNAARSQ <mark>V</mark> G	V P P L I W D N I L A	AAFAQSYANLRNVIAN	LOIH	ADHIVI	RAW <mark>V</mark> NEKANYDYNSN <mark>T</mark> C	122
Glyma.07G186300	LDAHNAARAE <mark>V</mark> G			VIIC NG DVC	ENLVASP <mark>G</mark> DVSGTD <mark>A</mark> VP ENLAGST <mark>G</mark> DISCANAVP	AMW V AFKANY DHKANKC	110 116
Glyma.07G186200	LNGQNDARSDVDVQVP VNAHNAARSQVG				ENLAGSIGDISCANAVI ENLAGSTGNLSGTNAVI		116
Glyma.15G062700 Glyma.15G062500	VNAHNAARSQVG VNAHNAARSQVG				ENLAGSTGNLSGINAVI ENLAGSTGNLSGKDAV		115
Glyma.15G062900	VDAHNAARSEVG		AAYAENYANQRKGDCA		ENIAMSTGELSGTDAV		86
Glyma.13G252400	VNAHNAARAEVGSQSPRQTVI				ENIAMSTGELSGTDAV		123
Glyma.13G252300	VNAHNAARAEVGSQSIRQIVI				ENIAMSTGELSGTDAV		123
Glyma.13G251700	VNAHNAARAEVGSQSPRQTVI	VPSI AWDDTVA	AVAESVANORKEDEO	THS GG EVG	ENIAMSTGELSGTDAV		123
Glyma.13G252000	VNAHNAARAEVGSQSPRQTVI	VPSI AWDDTVA	AVAESVANORKEDEO	THS GG EVG	ENIAMSTGELSGTDAV		123
Glyma.13G251600	VNAHNAARAEVGSQSPRQTVI	VPSLAWDDTVA	AVAESVANORKEDCO		ENIAMSTGELSGTDAV		123
Glyma.15G062800	VNAHNAARAEVSSQSPRANVI	VPSLAWDDTVA	AAYAESYANQRKGDCA		ENIAMSTGELSGTDAV		123
Glyma.13G252500	VNAHNAARSEVG	VONLAWDDTVA	AAFAQN <mark>YA</mark> NQRKGDCQ				70
Glyma.15G062400	VNAHNAARSEVG	VONLAWDDTVA	AAFAONYANORKGDCO	LIHS.GGGG.OYG	ENLAMSTGDLSGTDAV	KLWVDEKSNYDYNSNSC	115
Glyma.13G094200	LIPQNAARAVLR	LRPLVWDSKLA	AHYAOWYANORRNDCA	LEHSNG.PYG	ENIFWGSGT.GWKPAQAVS	SAWVEEROWYNYWHNSC	124
Glyma.17G066000	LIPQNAARAVLR				ENIFWGS <mark>G</mark> T.GWEPAQAVS	SAWVEERQWYNYWHNSC	117
Glyma.17G066100	LFRHNLVRAAKW						106
Glyma.13G094100	LFRHNLVRAAKW						150
consensus	* ** *! *	* *! **	* ** ** * *		* * *	** ** * ***	
	230 240	250	260	270			
Glyma.01G180400	V.GKHECGVYTQVVWRNSTEV	GCAQAVCVK.E	EQASLTICFYDPPGNV	IGEIPY	275		
Glyma.02G060800	V.PNHRCGVYTQVVWRKSLEL	GCARATCVK.E	EQASLTICFYNPPGNY	IGESPY	172		
Glyma.16G143300	A.PNHRCGVYTQVVWRKSVEL	GCAQATCVK.E	EUASLTICFYNPPGNY	VGESPY	174		
Glyma.10G047000	APPPKACGH <mark>FTQV</mark> VWRD <mark>S</mark> QR <mark>I</mark>				277		
Glyma.13G252600	V.HD.ECLHYTQIVWRDSVHI				161		
Glvma.15G062300	V.HD.ECLHYTQIVWRDSVHI	ICTOTALKA KICIN N . G	J.WVFVIOSYSPENI	LULKIN	161		

Glyma.01G180400	V.GKHECGVYTQ <mark>V</mark> VWRNSTE <mark>V</mark> GCAQAVCVK.EQASLTICFYDPPGNVIGEIPY	275
Glyma.02G060800	V.PNHRCGVYTQ <mark>V</mark> VWRK <mark>S</mark> LE <mark>L</mark> GCARATCVK.EQASLTICFYNPPGNYIGESPY	172
Glyma.16G143300	A.PNHRCGVYTQVVWRKSVELGCAQATCVK.EQASLTICFYNPPGNYVGESPY	174
Glyma.10G047000	APPPKACG <mark>HFTQV</mark> VWRD <mark>S</mark> QR <mark>IGCALQHCHNPSLGMLIACEYDPAGNYENEDPLKQHER</mark>	277
Glyma.13G252600	V.HD.ECLHYTQTVWRDSVHLGCARAKCNN.D.WVFVICSYSPPGNIEGERPY	161
Glyma.15G062300	V.HD.ECLHYTQIVWRDSVHLGCARAKCNN.G.WVFVICSYSPPGNIEGERPY	161
Glyma.07G186400	S.SVCGHYTQVVWRNSLRVGCAKVRCDN.G.STFIICCYDPRGNIRGQRPY	170
Glyma.07G186300	V.NNQECMHYAQLVWSNTFLVGCARSKCDN.G.WTFVICSYDPPGNFQGEQPY	160
Glyma.07G186200	V.GG.VCGHYTQ <mark>V</mark> VWRD <mark>S</mark> TQ <mark>V</mark> GCAKVECDN.G.GTFICCNYYPPGNYVGQRPY	165
Glyma.15G062700	V.GG.ECRHYTQ <mark>V</mark> VWKN <mark>S</mark> VR <mark>LGCG</mark> KVRCDN.G.GTFITCNYAPPGNYVGQRPY	165
Glyma.15G062500	V.GG.ECLHYTQ <mark>V</mark> VWRN <mark>S</mark> LR <mark>L</mark> GCAKVRCNN.G.GTFIGCNYAPPGNYIGQRPY	164
Glyma.15G062900	V.GG.ECLHYTQ <mark>V</mark> VWRD <mark>S</mark> VR <mark>L</mark> GCAKVTCDN.G.GTFITCNYDPL	126
Glyma.13G252400	V.GG.ECLHYTQ <mark>V</mark> VWAN <mark>S</mark> VRLGCAKVTCDN.G.GTFITCNYDPPGNFVGERPYKL	174
Glyma.13G252300	V.GG.ECLHYTQ <mark>V</mark> VWAN <mark>S</mark> VRLGCAKVTCDN.G.GTFITCNYDPPGNFVGERPYKL	174
Glyma.13G251700	V.GG.ECLHYTQ <mark>V</mark> VWAN <mark>S</mark> VRLGCAKVTCDN.G.GTFITCNYDPPGNFVGERPYKL	174
Glyma.13G252000	V.GG.ECLHYTQ <mark>V</mark> VWAN <mark>S</mark> VRLGCAKVTCDN.G.GTFITCNYDPPGNFVGERPYKL	174
Glyma.13G251600	V.GG.ECLHYTQ <mark>V</mark> VWAN <mark>S</mark> VRLGCAKVTCDN.G.GTFITCNYDPPGNFVGERPYKL	174
Glyma.15G062800	V.GG.ECLHYTQ <mark>V</mark> VWAH <mark>S</mark> LR <mark>L</mark> GCAKVTCDN.G.GTFITCNYDPPGNLVGESPYEL	174
Glyma.13G252500	RGESCNEHGG	79
Glyma.15G062400	V.GG.ECLHYTQVVWRDSVRLGCAKVACDN.G.GTFITCNYAPPGNYVGQRPY	164
Glyma.13G094200	A.NGQMCGHYTQTVWSTTRKIGCASVVCSG.GKGTFMTCNYDPPGNYYGERPY	175
Glyma.17G066000	A.NGQMCGHYTQ <mark>T</mark> VWST <mark>T</mark> RK <mark>V</mark> GCASVVCSA.GKGTFMTCNYDPPGNYYGERPY	168
Glyma.17G066100	V.PGQMCGHYTQIVWKST	123
Glyma.13G094100	V.PGQMCGHYTQIVWKSTRRIGCARVVCDD.G.DVFMTCNYDPVGNYVGERPY	200
consensus	<u> ****** </u>	

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

X similar

X ≥80% conserved