

Human_Skp2	η1			α1			α2				
	000	00	000000	0	0	000000	0	0	000000		
	1	10	20	10	20	10	20	10	20		
Human_Skp2	VSWDSL	LPDE	LLLG	TFS	CL					PEL	KV
F-box		LPDE	ILEE	ILS	KL	D				PKD	LRL
lcl Glyma.U017700_36-79		ILSLDP	IVTT	IFA	FL					DMFD	LVR
lcl Glyma.12G196800_1201-1238			LARI	FH	FLKS					DLKS	LVA
lcl Glyma.11G054300_7-48		DRLPID	LLAH	IFV	LFT					SFTD	LAQA
lcl Glyma.01G187800_7-48		DRLPID	LLAH	IFV	LFT					SFTD	LAQA
lcl Glyma.03G106100_7-49		DRLPID	LLAY	IFV	LFT					SFTD	LAQA
lcl Glyma.02G038300_46-79		ALPYD	VLAK	IAA	SFD					D	PNLRAA
lcl Glyma.07G032000_3-39		WSNLPFD	ILAN	IFS	FLS					P	DSLARA
lcl Glyma.20G163800_142-184		LPQD	ILAH	IFS	FLE					MKS	LVSM
lcl Glyma.10G229500_118-156		PQD	ILVL	IFS	FLD					MKS	LVS
lcl Glyma.11G154400_33-71			LMHI	FN	FLE					PIPD	RNT
lcl Glyma.20G157500_17-57			ILVK	IFQ	LFD					IFEL	TSGI
lcl Glyma.10G236900_16-56			ILVK	IFQ	LFD					IFEL	TSGI
lcl Glyma.15G092200_20-66		LDLPRD	VVCT	IFQ	KLK					AIET	LTRA
lcl Glyma.13G220200_14-60		LDLPRD	VVCT	IFQ	KLK					AIET	LTRA
lcl Glyma.02G057300_20-59			IIIT	ILM	SLN					VVDL	AV
lcl Glyma.01G100400_3-33					N					VVDL	AV
lcl Glyma.15G192600_18-57			ILIT	IFM	SVN					IVDL	AV
lcl Glyma.06G101800_9-54		WAEILPD	ALGV	IFT	NLS					LQER	VTVI
lcl Glyma.04G100100_9-54		WAEILPD	ALGV	IFT	NLS					LQER	VTVI
lcl Glyma.19G157300_105-147		PPD	LTIK	VFS	MLD					TQSL	LCYA
lcl Glyma.03G155100_106-148		PPD	LTIK	VFS	MLD					TQSL	LCYA
lcl Glyma.08G024000_93-132		LVPE	ITTH	ALS	YLD					YPSL	LCRL
lcl Glyma.05G217900_93-132		LVPE	ITTH	ALS	YLD					YPSL	LCRL
lcl Glyma.16G025000_50-90			IWTE	IAK	FLD					GKSL	VML
lcl Glyma.18G265500_5-43			VLKA	VFP	FLD					GVDL	LASC
lcl Glyma.08G243300_5-43			VLKA	VFP	FLD					SVDL	LASC
lcl Glyma.17G237800_42-82		DN	VLFE	VLK	HVD					ARSL	LAMA
lcl Glyma.14G086600_29-69		N	VLSE	VLR	HVD					ARSL	LAMA
lcl Glyma.06G043400_36-75			LLFE	VLK	HVD					ARTL	LAMA
lcl Glyma.04G042900_45-84			LLFE	VLK	HVD					ARTL	LAMA
lcl Glyma.17G225800_189-229		D	LLHM	VFS	FLD					HPNL	LCKA
lcl Glyma.14G098900_182-222		D	LLHM	VFS	FLD					HPNL	LCKA
lcl Glyma.06G055800_103-143		D	LLHM	VFS	FLD					HPNL	LCKA
lcl Glyma.04G055700_105-145		D	LLHM	VFS	FLD					HPNL	LCKA
lcl Glyma.20G190700_8-41		DE	ILVE	IFR	RLPS					KSIL	VRC
lcl Glyma.10G199800_8-41		DE	ILVE	IFR	RLPS					KSIL	VRC
lcl Glyma.20G166900_52-105		WASLPPE	LLRD	VIN	RLEAS					ESTWP	GRKHVVAC
lcl Glyma.10G224900_52-105		WASLPPE	LLRD	VIN	RLEAS					ESTWP	GRKHVVAC
lcl Glyma.12G115200_19-72		WASLPPE	LLRD	VIN	RLEAS					ESTWP	GRKHVVAC
lcl Glyma.07G147700_29-81		ASLLE	LLRD	VIN	RLEAS					ESTWP	GRKHVVAC
lcl Glyma.16G167200_50-103		WASLPPE	LLRD	VIN	RLEAS					ESTWP	GRKHVVAC
lcl Glyma.02G081800_50-103		WASLPPE	LLRD	VIN	RLEAS					ESTWP	GRKHVVAC
lcl Glyma.15G049500_52-105		WASLPPE	LLFD	IR	RLEES					ENTWP	ARKHVVAC
lcl Glyma.08G183100_52-105		WASLPPE	LLFD	IR	RLEES					ENTWP	ARKHVVAC
lcl Glyma.17G251500_81-133		WANLPPE	LLLD	IQ	RLEAS					ETSWP	PARRALVAC
lcl Glyma.14G073500_59-110		WANLPPE	LLLD	IQ	RLEAS					ETSWP	PARRALVAC
lcl Glyma.16G138100_55-106		ANLPSE	LLLD	IQ	RLEES					ETSWP	PARAVVVC
lcl Glyma.02G055300_55-106		ANLPSE	LLLD	IQ	RVEES					ETSWP	PARAVVVC
lcl Glyma.11G069400_54-106		WANLPPE	LLLD	IR	RVEDS					ETTW	PARAVVVC
lcl Glyma.01G173700_55-106		ANLPPE	LLLD	IR	RVEDS					ETTW	PARAVVVC
lcl Glyma.15G098200_32-82		WANMPQE	LLRE	VLF	RLEAS					EDAW	PPRKSVVAC
lcl Glyma.13G214900_36-87		WANMPQE	LLRE	VLL	RLEAS					EDTW	PPRKSVVAC
lcl Glyma.17G022700_13-56		WANMPHE	LLRE	VLL	RLEES					ESTWP	PLRRSVVAC
lcl Glyma.13G269600_48-95		SNMLPE	ILGE	IVR	RVDAA					EEQWP	NRRQNVVAC
lcl Glyma.12G230000_46-93		SSMLPE	ILGE	IVR	RVDAA					EEQWP	NRRQNVVAC
lcl Glyma.19G161300_136-172		GLPGN	LLWE	VLR	RLPP					AGLL	LTA
lcl Glyma.03G158900_123-159		GLPGN	LLWE	VLR	RLPP					AGLL	LTA
lcl Glyma.10G032000_129-167		PAS	LMWE	VMR	RLPP					PGLL	LTA
lcl Glyma.02G142300_127-164		LPAR	LLWE	VMR	RLPP					PGLL	LTA
lcl Glyma.06G115200_63-108		SLPDE	LLFE	VFA	RLTP					YDLG	LTA
lcl Glyma.04G247500_63-108		SLPDE	LLFE	VFA	RLTP					YDLG	LTA
lcl Glyma.20G075000_5-43		LPDE	LLVE	ILS	WVPV					KDL	LRF
lcl Glyma.19G048900_32-63		PRE	LLVE	ILS	WLPV					KSIL	LRI
lcl Glyma.13G114500_13-47		PCE	LOVE	IPP	WLEP					KTLL	LRL
lcl Glyma.15G101600_25-67		FLPDE	LVVE	ILS	RLPV					KSIL	LQF
lcl Glyma.13G211000_47-89		FLPDE	LVVE	ILS	RLPV					KSIL	LQF
lcl Glyma.15G101700_47-83		PIE	LIQE	ILQ	RLPV					KFL	LQF
lcl Glyma.02G126700_3-26		HITLPLE	LIRE	ILR	RLRV					KSIL	LQF
lcl Glyma.05G071700_5-43		LLPEE	LIVE	ILS	WVPV					KALM	QF
lcl Glyma.05G071400_5-43		LLPEE	LIVE	ILS	WVPV					KALM	QF
lcl Glyma.08G353000_5-43		LLPEE	LIVE	ILS	WVPV					KALM	QF
lcl Glyma.08G134900_8-42		PEE	LIVE	ILS	WVPV					KPLM	RF
lcl Glyma.05G166200_5-38		SED	LIVE	ILT	WVPV					KSIL	MRF
lcl Glyma.02G041600_10-43		PED	LIVE	ILS	WVEV					KNL	MRF
lcl Glyma.19G256900_7-41		PQD	QIVE	ILS	WHPV					KVL	MRF
lcl Glyma.06G181300_17-52		E	VVVE	ILS	WVPV					KALM	RF
lcl Glyma.05G071600_7-39		IE	LIVE	ILS	WLPV					KPLI	RF
lcl Glyma.05G071300_7-39		IE	LIVE	ILS	WLPV					KPLI	RF
lcl Glyma.08G352900_7-37		IE	LIVE	ILS	WLPV					KPLI	RF
lcl Glyma.17G116300_16-49			LSVE	ILS	WLPV					KVL	RF
lcl Glyma.17G044800_8-45		PGD	LIVE	ILS	WLPV					DALL	RF
lcl Glyma.13G114400_4-34			ILS	WLPV						KALL	RF
lcl Glyma.08G350400_8-50		YVPDD	LIVE	ILS	RLPV					KDL	RF
lcl Glyma.19G048800_4-37		QLPQD	LIEE	ILS	WLPV					KSIL	MRF
lcl Glyma.19G048700_4-37		QLPQD	LIEE	ILS	WLPV					KSIL	MRF
lcl Glyma.19G048600_4-37		QLPQD	LIEE	ILS	WLPV					KSIL	MRF
lcl Glyma.19G048300_4-37		QLPQD	LIEE	ILS	WLPV					KSIL	MRF
lcl Glyma.19G048000_4-37		QLPQD	LIEE	ILS	WLPV					KSIL	MRF
lcl Glyma.19G048200_4-37		QLPQD	LIEE	ILA	WLPV					KSIL	MRF
lcl Glyma.19G048100_4-37		QLPQD	LIEE	ILA	WLPV					KSIL	MRF
lcl Glyma.19G049000_4-37		QLPQD	LIEE	ILS	WLPV					KSIL	MRF
lcl Glyma.19G048500_4-37		QLPQD	LIEE	ILS	WLPV					KSIL	MRF
lcl Glyma.07G156800_28-66		FEK	LMME	VLS	WLPV					KSIL	VR
lcl Glyma.18G168800_12-48		CEE	LIEE	ILS	RLPV					KPLI	QF
lcl Glyma.18G161800_14-47		E	LIEE	ILS	RLPV					KPLI	QF
lcl Glyma.18G168300_12-48		CDE	LIEE	ILS	RLPV					KPLI	QF
lcl Glyma.18G160800_12-48		CDE	LIEE	ILS	RLPV					KPLI	QF
lcl Glyma.18G162900_12-48		CDE	LIEE	ILS	RLPV					KPLI	QF
lcl Glyma.18G163200_12-48		CDE	LIEE	ILS	RLPV					KPLI	QF
lcl Glyma.18G168500_1-31			E	ILS	RLPV					KPLI	QF
lcl Glyma.18G161900_12-48		CDE	LIEE	ILS	RLPV					KPLI	QF

lc1 Glyma.18G162500_12-48	CDE	LIKEILS	RFPV	KPLIQF
lc1 Glyma.18G160700_1-30		EILS	RFPV	KPLIQF
lc1 Glyma.18G162400_12-48	CDE	LIKEILS	RFPV	KPLIQF
lc1 Glyma.18G161500_14-48	E	LIKEILS	CLPV	KTLLIQF
lc1 Glyma.18G162700_12-49	CDE	LFEEILS	RFPV	KPLMQF
lc1 Glyma.18G162600_11-49	LLCNE	IIKEILS	RFPV	KPLIQF
lc1 Glyma.18G162300_14-50	CNE	IIKEILS	RFPV	KPLIQF
lc1 Glyma.18G168000_8-37		ILS	RFLPM	KPLIQF
lc1 Glyma.18G163100_10-47	LLCNK	ITEEILS	RFPV	KPLIQF
lc1 Glyma.14G160200_8-46	LSLLCNE	ITEEILS	RFPV	KPLIQF
lc1 Glyma.18G162800_10-46	LLCNE	ITEEILS	RFPV	KPLIPF
lc1 Glyma.18G276400_6-41	RE	LTEKILI	KLPV	KSLVSF
lc1 Glyma.20G073200_7-44	PFDD	LIVEILL	RFSV	RSLLRF
lc1 Glyma.07G187200_13-47	D	LTIEILL	RFPV	RCLLRF
lc1 Glyma.16G203000_9-45	PED	LTIEILL	MFPV	RSILRF
lc1 Glyma.16G202600_12-48	PED	LTIEILL	MFPV	RSILRF
lc1 Glyma.16G202900_12-48	PED	LTIEILL	MFPV	RSILRF
lc1 Glyma.16G202800_1-34		LTIEILL	MFPV	RSILRF
lc1 Glyma.01G232700_12-48	PED	LTIEILL	MFPV	RSILRF
lc1 Glyma.10G117700_28-64	PLE	LTIEILL	RFPV	RSVLRP
lc1 Glyma.08G252000_10-33	PLE	LTIEILL	RSPV	RSVLRP
lc1 Glyma.08G252300_8-45	PLE	LTIEVLL	RFPV	RSVLRP
lc1 Glyma.18G274900_8-44	PLE	LTIEILL	RFPV	RSVLGF
lc1 Glyma.07G148300_5-41	LPLE	LTIEILL	RFPV	RSILRF
lc1 Glyma.18G274700_8-46	PLD	LIEILL	KLPV	KSVTRF
lc1 Glyma.03G116000_13-48	GE	LIGAILL	WFPV	RSVLRP
lc1 Glyma.18G274500_6-42	PME	LMREILL	RFPV	RSVSRF
lc1 Glyma.08G251800_6-42	PMD	LMREILL	RFPV	RSVSRF
lc1 Glyma.17G162200_4-40	LPDD	QIVILL	RFPV	RTLRRF
lc1 Glyma.10G132100_7-44	PDE	LIVEILL	RFPV	RTLRRF
lc1 Glyma.06G197100_7-43	PDD	MMEEILL	RFPV	KCLLRF
lc1 Glyma.06G197000_14-50	PDE	LMEEILL	RFPV	RCLVRF
lc1 Glyma.10G220200_8-46	LWLLPEE	LISEILF	RVPV	RSLLQF
lc1 Glyma.02G188000_34-67	E	LISNLIH	RVPV	RSLLQF
lc1 Glyma.10G220500_40-78	VLPYD	LWELL	RVPV	RSLLIF
lc1 Glyma.06G016300_7-47	MFPDD	LIVNLLS	RFPV	RSMLRS
lc1 Glyma.08G252200_30-68	PPE	LIREILL	SFPV	NSLLQC
lc1 Glyma.06G197200_5-41	PEE	LIQVILL	RFLP	RNLLHL
lc1 Glyma.18G274800_22-60	LPQE	LIREILL	RFPV	KSLLRF
lc1 Glyma.13G109000_20-53	PEE	LTIEILL	RFPV	KSLLRF
lc1 Glyma.17G017600_31-68	LPQE	LIEHILL	RFPV	KSLLRF
lc1 Glyma.16G164000_14-50	PQE	LIEILL	RFPV	KSLVRF
lc1 Glyma.02G079600_14-50	PQE	LIEILL	RFPV	KSLVRF
lc1 Glyma.06G126800_15-54	AILPWE	LIEILL	RFPV	KSLVRF
lc1 Glyma.17G027000_18-43	PQE	LIIQILL	RFPV	KSLIRF
lc1 Glyma.07G247000_18-54	PQE	LIIQILL	RFPV	KSLLRF
lc1 Glyma.20G014700_28-52	PLE	LTIEIFL	RFLP	KSLIRF
lc1 Glyma.17G021300_21-61	PQD	LVIQILL	RFPV	KSLVRF
lc1 Glyma.08G098000_3-39	PQD	LTIEILL	RFPV	KSLVRF
lc1 Glyma.08G251700_6-43	HD	LIVEILL	RFLP	KSLLRF
lc1 Glyma.18G256100_8-31	PIE	LIEILL	RFSV	RHVTRF
lc1 Glyma.15G055200_11-42	PYD	VINILK	RFPV	KSLIRF
lc1 Glyma.09G032600_10-43	DE	VVIQILA	RFPV	KSLFRF
lc1 Glyma.02G128400_30-69	LPDEI	MLFKILP	LPS	KTLLRF
lc1 Glyma.17G008200_11-50	ANLPVE	VVTEILS	RFPV	KSVIRL
lc1 Glyma.07G265800_3-43	NLPVE	VVTEILS	RFPV	KSVIRL
lc1 Glyma.15G115100_4-44	LPRE	VTEILS	RFPV	RSLLRF
lc1 Glyma.09G010600_4-42	LPRE	VVTDILS	RFLP	KSLLRF
lc1 Glyma.06G045700_5-48	WSKLPPD	VVEHILL	LPL	KTLLNL
lc1 Glyma.04G045200_5-49	WSKLPPD	VVEHILL	LPL	KTLLNL
lc1 Glyma.14G088700_35-79	SKLPPE	ILEYILS	FPL	KTLLNL
lc1 Glyma.19G081700_4-43	LPQE	LVSNILS	RFLP	IDLVKC
lc1 Glyma.16G063500_47-81	LPQE	LVSNILS	RFLP	KDLVKC
lc1 Glyma.19G081500_1-45	SMEHLPRE	LVSNILS	RFLP	KVLLLC
lc1 Glyma.16G063600_1-45	SMEHLPGE	LVSNILS	RFLP	KVLLLC
lc1 Glyma.15G220600_3-41	YLPEA	LVLOILY	RFPV	TLVKC
lc1 Glyma.16G161700_9-36		FEVFS	CLPA	KAIHFR
lc1 Glyma.15G092300_5-37	DEL	LLFKICS	YFLP	KAIYRF
lc1 Glyma.03G020200_4-34	SHD	ELLEIFS	RFLP	KAIYRF
lc1 Glyma.04G198800_33-68	LCND	ALFEIFL	RFPV	EVLPFR
lc1 Glyma.09G075900_20-65	INNLFPD	SLTEIFC	KLPC	KSLFTC
lc1 Glyma.07G022100_3-47	INNLSPD	VMGEIFI	RFPV	RSTVKC
lc1 Glyma.02G083400_9-46	LAED	SLRQIFC	RFLP	REIMIC
lc1 Glyma.19G252100_40-81	DVLPDD	LLERILA	YFLP	ASIFRA
lc1 Glyma.03G254500_40-81	DVLPDD	LLERILA	YFLP	ASIFRA
lc1 Glyma.08G088700_46-81	WSKLPQR	LLDRVLA	FPLP	PAFFRA
lc1 Glyma.08G104800_104-143	KNLPED	LFEPVIA	RFLP	ATFFCF
lc1 Glyma.05G147900_105-145	KNLPED	LFEPVIA	RFLP	ATFFRF
lc1 Glyma.18G005400_113-153	KDFPED	LFEPVIA	RFLP	ATFFRF
lc1 Glyma.17G220600_21-64	SLDDLNE	LLERVLS	WLPT	SSFFRL
lc1 Glyma.14G105800_21-64	SLDDLNE	LLERVLS	WLPT	SSFFRL
lc1 Glyma.06G058900_28-68	SLDDLNE	LFERILS	WLPT	STFFRL
lc1 Glyma.04G058200_28-68	SLDDLNE	LFERILS	WLPT	STFFRL
lc1 Glyma.18G275900_100-142	AMLPED	LLHEILA	RVPV	FLIFRL
lc1 Glyma.08G253600_95-137	AMLPED	LLHEILA	RVPV	FLIFRL
lc1 Glyma.13G209700_23-63	PED	LMIEILA	RVRV	SNPLQL
lc1 Glyma.06G168700_28-71	LSMLNE	LQNILA	RFLP	LHFASA
lc1 Glyma.04G196900_27-69	LSMLNE	LQNILA	RFLP	LHFASA
lc1 Glyma.19G162400_18-54	PGLPND	VASILS	MVPV	SHHGRL
lc1 Glyma.03G160600_17-56	PGLPND	VASILS	KVPV	SHHGRL
lc1 Glyma.19G158300_6-45	GLPDA	VAIRCLA	RVPV	YLHPVL
lc1 Glyma.03G156000_5-45	ERLPDA	VAIRCLA	RVPV	YLHPVL
lc1 Glyma.10G028000_6-45	GLPDA	VAIRCLA	WVPV	YLHPKL
lc1 Glyma.06G146500_19-60	PSPDPD	VALNCLG	RIPR	SOHPTL
lc1 Glyma.04G219400_21-60	PND	VALNCLA	RIPR	SHHPTL
lc1 Glyma.07G071600_25-62	CGLPDD	ISLMCLA	RIPR	KYHSVL
lc1 Glyma.03G010000_2-33		SLMCLA	RIPR	KYHSVL
lc1 Glyma.07G071500_32-72	CGLPDD	ISLMCLA	RIPR	KYHSVM
lc1 Glyma.07G071400_25-62	CGLPDD	LSLMCLA	RVPV	KYHSVM
lc1 Glyma.08G112900_78-117	PGLPDD	LAIACLI	RVPV	VEHGKL
lc1 Glyma.05G155000_78-117	PGLPDD	LAIACLI	RVPV	VEHSKL
lc1 Glyma.19G005000_68-104	PGLPDD	LAIACLI	RVPV	VEHKKL
lc1 Glyma.09G019400_18-59	LSGLPDD	LAIACLI	RVPV	IEHKKL

lcl|Glyma.15G093300\_53-91 . . . . . PGLPDD. VALNCLL. . . . . RLPV. . . . . QSHSSC  
lcl|Glyma.13G218800\_53-91 . . . . . PGLPDD. VALNCLL. . . . . RLPV. . . . . QSHSSC  
lcl|Glyma.18G007900\_34-73 . . . . . PGLPDD. VAEYCLA. . . . . LVPR. . . . . SNFPAM  
lcl|Glyma.11G249300\_49-87 . . . . . PGLPDD. VAEYCLA. . . . . LVPR. . . . . SNFPAM  
lcl|Glyma.08G103400\_52-91 . . . . . PGLPDD. VSKHCLA. . . . . LVPR. . . . . SNFPAM  
lcl|Glyma.15G013300\_4-46 . . . . . SGLPED. VARDCLI. . . . . RVPY. . . . . DQFPAV  
lcl|Glyma.13G360600\_4-47 . . . . . SGLPED. VARDCLI. . . . . RVPY. . . . . EQFPAV  
lcl|Glyma.08G207700\_4-46 . . . . . SGLPED. VARDCLI. . . . . RVSY. . . . . QOFPTV  
lcl|Glyma.07G034400\_4-36 . . . . . SGLPED. VARDCLI. . . . . RVSY. . . . . QOFPTV  
lcl|Glyma.20G045100\_49-89 . . . . . ISSLPDD. IVLDCLS. . . . . RVPT. . . . . SSLPAL  
lcl|Glyma.05G155600\_55-96 . . . . . PKLPSE. LGLECLT. . . . . RLPH. . . . . SAHRVA  
lcl|Glyma.06G016400\_142-179 . . . . . PDD. ILEMCLV. . . . . RLPL. . . . . TSLMNA  
lcl|Glyma.04G016300\_139-176 . . . . . PDD. ILEMCLV. . . . . RLPL. . . . . TSLMNA  
lcl|Glyma.19G246800\_38-73 . . . . . D. ILHEL. . . . . RLPP. . . . . PTISKL  
lcl|Glyma.03G249300\_21-56 . . . . . D. ILHEL. . . . . RLPP. . . . . PTISKL  
lcl|Glyma.06G076900\_64-102 . . . . . PGLPYE. IABELCLL. . . . . HVPY. . . . . PYQALS  
lcl|Glyma.02G036400\_11-44 . . . . . ILEAIFS. . . . . HVPL. . . . . IHLVPA  
lcl|Glyma.01G028800\_12-45 . . . . . ILEAIFS. . . . . HVPL. . . . . IHLVPA  
lcl|Glyma.08G284600\_18-52 . . . . . ILEAIFS. . . . . HVPL. . . . . IHLVPA  
lcl|Glyma.18G141000\_17-47 . . . . . ILEAIFS. . . . . HVPL. . . . . IHLVSA  
lcl|Glyma.08G259900\_8-42 . . . . . NSD. ILLEILS. . . . . HVPA. . . . . KDLLSL  
lcl|Glyma.01G083900\_11-43 . . . . . ILLEILS. . . . . HVPA. . . . . KDLLSL  
lcl|Glyma.14G167900\_43-84 . . . . . PNLPDE. LSLQIIA. . . . . RLPR. . . . . ICYHVH  
lcl|Glyma.13G086000\_43-84 . . . . . PNLPDE. LSLQIIA. . . . . RLPR. . . . . ICYHVH  
lcl|Glyma.06G106800\_43-84 . . . . . PNLPDE. LSLQIIA. . . . . RLPR. . . . . ICYFNV  
lcl|Glyma.04G107000\_43-84 . . . . . PNLPDE. LSLQIIA. . . . . RLPR. . . . . ICYFNV  
lcl|Glyma.15G214000\_43-89 . . . . . PNLPDD. LSLQIIA. . . . . RLPR. . . . . ICYHVH  
lcl|Glyma.08G074400\_43-84 . . . . . PSLPDE. ISIQILA. . . . . RVPR. . . . . IYLLNL  
lcl|Glyma.05G119400\_43-84 . . . . . PSLPDE. ISIQILA. . . . . RVPR. . . . . IYLLNL  
lcl|Glyma.08G298900\_194-236 . . . . . RMNRD. SSIACLS. . . . . RCSR. . . . . SDYGSL  
lcl|Glyma.02G105600\_194-236 . . . . . RMNRD. SSIACLS. . . . . RCSR. . . . . SDYGSL  
lcl|Glyma.13G326800\_49-82 . . . . . ID.D. VALNCLA. . . . . WVSG. . . . . SDYAVL  
lcl|Glyma.20G215600\_15-54 . . . . . LSGLPDE. ILLIMS. . . . . FT.MI. . . . . KDAVQT  
lcl|Glyma.10G175100\_15-54 . . . . . LSGLPDE. ILLIMS. . . . . FT.MI. . . . . KDAVQT  
lcl|Glyma.17G078800\_21-60 . . . . . LSNLPDD. IIDRVLY. . . . . FL.DA. . . . . VSAVQT  
lcl|Glyma.07G004400\_30-68 . . . . . SNLPDE. VLHRLS. . . . . FL.DA. . . . . KSAVQT  
lcl|Glyma.16G177700\_131-169 . . . . . ISELPDN. VLLHIMN. . . . . FV.DT. . . . . KDAVQT  
lcl|Glyma.09G139100\_17-56 . . . . . ISEFPDH. VLLHIMS. . . . . LM.DT. . . . . KSAVRT  
lcl|Glyma.09G140100\_13-51 . . . . . ISELPIS. VLLHILE. . . . . FM.NT. . . . . KDAVQT  
lcl|Glyma.09G130200\_31-69 . . . . . ISELPDS. ILLHILN. . . . . FM.NT. . . . . ESAVQT  
lcl|Glyma.09G140200\_31-69 . . . . . ISELPDS. VLLHIE. . . . . FM.DT. . . . . KSGVQT  
lcl|Glyma.13G224200\_116-152 . . . . . ISALPDS. LLFHMN. . . . . FM.DT. . . . . KSAVQT  
lcl|Glyma.09G139800\_14-52 . . . . . ISELPDN. ILLHMN. . . . . FM.DT. . . . . REAVQT  
lcl|Glyma.09G139700\_14-52 . . . . . ISEMPDN. ILLHMN. . . . . FM.DT. . . . . REAVQT  
lcl|Glyma.09G139900\_29-68 . . . . . ISELPDN. ILLHMD. . . . . FM.DT. . . . . REAVQT  
lcl|Glyma.10G136700\_25-60 . . . . . LPEN. VLLHIMN. . . . . FM.ET. . . . . RHAVQT  
lcl|Glyma.09G141700\_24-62 . . . . . LSELPPDC. VVHIME. . . . . FM.DT. . . . . KYAVQT  
lcl|Glyma.09G141600\_32-70 . . . . . LSELPPDC. VVHIME. . . . . FM.DT. . . . . KYAVQT  
lcl|Glyma.09G141500\_32-70 . . . . . LSELPPDC. VVHIME. . . . . FM.DT. . . . . KYAVQT  
lcl|Glyma.09G141400\_32-70 . . . . . LSELPPDC. VVHIME. . . . . FM.DT. . . . . KYAVQT  
lcl|Glyma.09G141300\_32-70 . . . . . LSELPPDC. VVHIME. . . . . FM.DT. . . . . KYAVQT  
lcl|Glyma.09G141200\_32-70 . . . . . LSELPPDC. VVHIME. . . . . FM.DT. . . . . KYAVQT  
lcl|Glyma.09G141100\_32-70 . . . . . LSELPPDC. VVHIME. . . . . FM.DT. . . . . KYAVQT  
lcl|Glyma.10G134800\_20-58 . . . . . LSELPPDC. ILLYIMK. . . . . FM.NT. . . . . KYAVQT  
lcl|Glyma.09G142000\_40-78 . . . . . LSDLPDF. VLLHIMK. . . . . FM.SM. . . . . KHAVQT  
lcl|Glyma.10G135600\_12-49 . . . . . LSELPPDF. VLLHIMN. . . . . FI.DT. . . . . KDALRT  
lcl|Glyma.10G135200\_27-64 . . . . . LSELPPDF. VLLHIMN. . . . . FI.DT. . . . . KDALRT  
lcl|Glyma.10G135500\_27-64 . . . . . LSELPPDF. VLLHIMN. . . . . FI.YT. . . . . KDALRT  
lcl|Glyma.09G130100\_116-155 . . . . . ISELPDT. VLLHILN. . . . . FM.DT. . . . . KDAVQT  
lcl|Glyma.06G098100\_17-56 . . . . . LSDLPEC. VLLHILT. . . . . FL.NA. . . . . KHAVRT  
lcl|Glyma.15G227900\_18-56 . . . . . ISELPDH. VFLRILE. . . . . FM.NT. . . . . RDAVRL  
lcl|Glyma.18G164400\_4-43 . . . . . ISSLPDT. LLCHILS. . . . . FL.PT. . . . . IESVAT  
lcl|Glyma.08G351300\_7-40 . . . . . ISSLPDT. LLCHILS. . . . . FL.PT. . . . . KEAIAAT  
lcl|Glyma.18G164500\_7-43 . . . . . ISSLPNE. LLCHILS. . . . . FL.PT. . . . . KQAVAT  
lcl|Glyma.13G353900\_4-42 . . . . . FSSLTES. VLYILS. . . . . FL.PT. . . . . KDAVAT  
lcl|Glyma.18G164300\_4-42 . . . . . ISNLPDV. VLSHILS. . . . . LV.PT. . . . . NVAVAT  
lcl|Glyma.08G351400\_4-43 . . . . . ISNLPDA. VLSHILS. . . . . FL.PT. . . . . KQAVAT  
lcl|Glyma.18G164600\_21-53 . . . . . ISHLPDV. LLLQILS. . . . . LL.PT. . . . . KQAVIT  
lcl|Glyma.12G103400\_25-61 . . . . . ISDLPDA. VLLHILF. . . . . LL.PI. . . . . K.CVAQM  
lcl|Glyma.13G283500\_19-52 . . . . . STLPDS. VLVSILS. . . . . LL.PC. . . . . NEGVRT  
lcl|Glyma.15G241900\_46-76 . . . . . SYLPEV. IIGRILF. . . . . FL.PN. . . . . KVAVRT  
lcl|Glyma.15G241800\_37-67 . . . . . SYLPEV. IIGRILF. . . . . FL.PN. . . . . KDAVRT  
lcl|Glyma.15G241500\_46-77 . . . . . ISYLSDV. IIGRILF. . . . . FL.PN. . . . . KDVVRT  
lcl|Glyma.13G262900\_18-55 . . . . . FSDLPDV. IIGRILS. . . . . IL.PT. . . . . KEAVRT  
lcl|Glyma.17G193700\_22-57 . . . . . ISNLPDF. IIGLILS. . . . . LL.PT. . . . . KDAVRT  
lcl|Glyma.15G242400\_9-60 . . . . . LPPEQTVVEGEGISKLHES. IILGKILS. . . . . FL.PT. . . . . TDAVHT  
lcl|Glyma.15G242200\_29-66 . . . . . SKLHES. IILGHILS. . . . . FL.PT. . . . . MESVHT  
lcl|Glyma.15G242000\_23-61 . . . . . SQIHDS. IILGHILS. . . . . FL.PT. . . . . MEAVQT  
lcl|Glyma.13G262800\_23-60 . . . . . SQIHDS. IILGHILS. . . . . FL.PT. . . . . MEAVQT  
lcl|Glyma.20G142600\_29-63 . . . . . GNLPE. IIOHILS. . . . . LL.PT. . . . . KDAVKT  
lcl|Glyma.15G022500\_46-82 . . . . . ISQFPDH. VHHILS. . . . . HLRNV. . . . . NDAVRT  
lcl|Glyma.08G192100\_57-96 . . . . . LSDMPDC. IHHILS. . . . . FM.ET. . . . . KDAVQT  
lcl|Glyma.13G278200\_43-78 . . . . . ISSLPDE. IICHILS. . . . . FL.PT. . . . . IEAVTT  
lcl|Glyma.07G072400\_15-54 . . . . . ISELPDD. VVYHILS. . . . . FL.TI. . . . . KEAIAAT  
lcl|Glyma.08G348900\_6-44 . . . . . ISALPDE. VLGHILS. . . . . FL.ST. . . . . QEAIST  
lcl|Glyma.20G098700\_4-40 . . . . . FSNLPDE. VLSIVS. . . . . FL.PN. . . . . ESALET  
lcl|Glyma.10G290500\_5-34 . . . . . SNLPDE. ILSIVS. . . . . FL.P. . . . . LET  
lcl|Glyma.18G286800\_5-41 . . . . . FSNLPDQ. ILCRIVS. . . . . FL.PN. . . . . ESSLET  
lcl|Glyma.02G094600\_5-41 . . . . . FSNLPDE. ILCRIVS. . . . . FL.PN. . . . . ESSLET  
lcl|Glyma.02G127700\_9-44 . . . . . ISDLPQS. IIESILV. . . . . QL.PI. . . . . RDAVRT  
lcl|Glyma.01G072000\_9-46 . . . . . ISDLPQS. IIESILV. . . . . QL.PI. . . . . RDAVRT  
lcl|Glyma.02G127100\_16-54 . . . . . ISDLPDS. LIDFILQ. . . . . RL.QL. . . . . QDVVRT  
lcl|Glyma.02G126900\_16-55 . . . . . ISDLPDS. LIDFILQ. . . . . RL.PL. . . . . QDVVRT  
lcl|Glyma.17G247500\_18-51 . . . . . ISCLPGH. VIDQVLS. . . . . HL.SI. . . . . REAVRT  
lcl|Glyma.17G128800\_29-62 . . . . . NKLPDG. IIPVILS. . . . . KL.PI. . . . . NEAVRT  
lcl|Glyma.12G068200\_27-62 . . . . . STMPDD. IILGILS. . . . . RL.TL. . . . . KEAART  
lcl|Glyma.08G195600\_6-40 . . . . . STLPKT. IILHDILS. . . . . RM.PE. . . . . EDVVRT  
lcl|Glyma.08G195400\_12-48 . . . . . ENLPDI. VILHDILS. . . . . RL.PE. . . . . KDAART  
lcl|Glyma.13G261600\_7-44 . . . . . SNLPDE. IKTNILS. . . . . KL.CI. . . . . DEAVRC  
lcl|Glyma.09G102300\_7-43 . . . . . LSSLPEL. LCLFIS. . . . . LL.PF. . . . . KDAVRT  
lcl|Glyma.08G312700\_7-45 . . . . . LSSLPEL. LCLFIS. . . . . LL.PF. . . . . KDAVRT  
lcl|Glyma.17G194900\_31-63 . . . . . LSKLPEP. LVSHILS. . . . . FL.PT. . . . . KDAVRT  
lcl|Glyma.10G200400\_12-47 . . . . . LLPEI. VLIIVS. . . . . FL.PF. . . . . KEAVRT

lcl Glyma.02G289100_7-44	.....FCLLP	IVVLTILS	..LJ	..PF	.....KEVV	RT
lcl Glyma.02G289200_6-45	.....ISSLP	ILMTIVS	..L	..PF	.....KESM	RA
lcl Glyma.06G120600_42-76	.....KDIPV	ELMQILS	..L	..VDD	.....QTV	IA
lcl Glyma.04G242700_1-26	.....QILS	..L	..VDD	.....QTV	IA	
lcl Glyma.13G036600_43-77	.....KDIPV	ELMQILS	..L	..VDD	.....QTV	IA
lcl Glyma.12G088900_2-39	.....QLPVE	VIGNILS	..H	..RAA	.....RDV	IA
lcl Glyma.15G081900_5-39	.....SNLPH	LLSRIVS	..G	..L	.....IDF	LSF
lcl Glyma.13G230700_4-39	.....WSNLPR	DVLSQIVS	..G	..L	.....IDF	LSF
lcl Glyma.04G019900_5-47	.....GELPPE	LEESISK	..T	..TIY	.....VDY	LR
lcl Glyma.09G116200_72-107	.....WSSLPR	GILVEMVAE	..R	..TF	.....IDC	LSI
lcl Glyma.10G154000_52-81	.....LPI	ILRLIFD	..N	..PI	.....PDL	ARA
lcl Glyma.08G356100_5-44	.....TNLST	LIELILS	..L	..PI	.....PTL	IRA
lcl Glyma.13G154400_35-73	.....WSDLPTE	LELILS	..R	..SL	.....DDN	VRA
lcl Glyma.06G213000_16-54	.....LLPQE	LIQNI	..F	..L	.....PET	IRL
lcl Glyma.04G150400_60-99	.....LLPQE	LIQNI	..F	..L	.....PET	IRL
lcl Glyma.18G227100_18-56	.....KILM	..S	..LDD	.....LAD	LVRA	
lcl Glyma.16G197900_17-58	.....MSIK	ILIT	..H	..DD	.....PCD	LIRV
lcl Glyma.14G044300_96-140	.....ITDLPPA	LISEILN	..C	..L	.....PKD	LVV
lcl Glyma.02G273700_95-139	.....ITDLPPA	LISEILN	..C	..L	.....PKD	LVV
lcl Glyma.15G046900_4-35	.....PDA	ILQYILS	..R	..INN	.....ARD	VAA
lcl Glyma.08G185900_4-35	.....PDA	ILQYILS	..H	..INN	.....ARD	VAA
lcl Glyma.08G127900_2-36	.....SLPDA	ILQCILS	..R	..ITN	.....ARD	VSS
lcl Glyma.05G169600_2-36	.....SMPDA	ILQCILS	..R	..ITN	.....ARD	VSS
lcl Glyma.13G164200_19-62	.....LPDE	ILCSILE	..G	..L	.....PRD	AARV
lcl Glyma.06G101600_19-63	.....LPDE	ILCSILE	..R	..L	.....PRD	AARV
lcl Glyma.12G051100_14-48	.....LKG	..K	..L	..G	.....AQD	IARV
lcl Glyma.15G092600_22-56	.....RLPDS	LLLVFN	..K	..IGD	.....VKA	LGR
lcl Glyma.13G219800_25-59	.....RLPDS	LLLVFN	..K	..IGD	.....VKA	LGR
lcl Glyma.17G251700_4-43	.....DLPEG	CIAKILS	..Y	..T	.....TPV	ACRL
lcl Glyma.14G073300_3-44	.....QDPEG	CIAKILS	..Y	..T	.....TPV	ACRL
lcl Glyma.20G220300_18-63	.....INLLPEG	CISYILS	..Y	..T	.....TPV	ACRL
lcl Glyma.20G220200_12-43	.....KILS	..Y	..T	.....TRAD	VCR	
lcl Glyma.10G169300_5-46	.....LPEG	CVAHILS	..Y	..IC	.....TPED	IVRL
lcl Glyma.10G169600_3-46	.....QGLPEG	CIASILS	..R	..T	.....TPAD	VCRF
lcl Glyma.20G220100_9-52	.....NNLPEG	CIANILS	..F	..T	.....SPRD	VCR
lcl Glyma.10G169700_11-37	.....CMVNL	ILS	..F	..T	.....SPRD	VRR
lcl Glyma.03G233900_4-44	.....PYD	CFAHILS	..F	..T	.....STQD	VCRS
lcl Glyma.03G253900_24-65	.....HLPEG	CIANIVS	..F	..T	.....TPPD	ACV
lcl Glyma.19G231000_9-54	.....NIESLPHD	CVSEILS	..H	..T	.....SPLV	ACV
lcl Glyma.03G233800_10-55	.....NIESLPHD	CVSEILS	..H	..T	.....SPLV	ACV
lcl Glyma.10G150400_4-45	.....PED	CVSKILS	..Y	..T	.....SPPD	ACRF
lcl Glyma.06G271000_8-48	.....PEE	CVATILS	..L	..T	.....SAKD	ACQL
lcl Glyma.06G270800_8-48	.....PEE	CVATILS	..L	..T	.....SAKD	ACQL
lcl Glyma.06G271100_7-47	.....PEE	CISMIVS	..F	..T	.....SPED	ACRL
lcl Glyma.13G064500_14-60	.....ITDLNED	CIHACAG	..H	..L	.....SLGD	VN
lcl Glyma.17G131400_23-62	.....LPES	CVAQIMT	..Y	..M	.....DPPD	ICKL
lcl Glyma.05G049400_78-117	.....LPES	CVAQIMT	..Y	..M	.....DPPD	ICKL
lcl Glyma.07G077600_23-55	.....IPES	CVAVLIM	..Y	..L	.....DPPD	ICKL
lcl Glyma.03G017000_23-61	.....IPES	CVAVLIM	..Y	..L	.....DPPD	ICKL
lcl Glyma.13G149600_18-56	.....IPES	CVACVFL	..H	..L	.....TPPE	ICNL
lcl Glyma.10G064800_18-56	.....IPES	CVACVFL	..H	..L	.....TPPE	ICNL
lcl Glyma.03G189500_21-61	.....IPEN	CVARVFL	..H	..L	.....TPPE	ICNL
lcl Glyma.10G238700_32-71	.....IPES	CISSLFM	..N	..L	.....DPPD	ICKL
lcl Glyma.09G145700_29-67	.....PEN	CISSMMM	..N	..F	.....DPQE	ICSL
lcl Glyma.17G022900_12-56	.....SSLPED	VALKIAS	..L	..L	.....QVRD	L
lcl Glyma.07G251400_13-56	.....SLPED	VALKIAS	..L	..L	.....QVRD	L
lcl Glyma.16G123900_129-161	.....SLPMD	LLVKILC	..H	..L	.....HHDG	LRAV
lcl Glyma.02G045900_131-163	.....SLPMD	LLVKILC	..H	..L	.....HHDG	LRAV
lcl Glyma.13G246200_46-82	.....LLDALPQD	VLVQVLC	..G	..V	.....DHED	LKQL
lcl Glyma.07G190100_53-90	.....RLEALPLD	VLRVLC	..G	..V	.....DHED	LEQL
lcl Glyma.20G135900_323-367	.....FTRLPME	LKLLILE	..R	..L	.....LPGV	LAKV
lcl Glyma.10G255600_327-371	.....FMRLPME	LKLLILE	..R	..L	.....LPGV	LAKV
lcl Glyma.19G154800_16-53	.....FYDIFR	..R	..L	..G	.....LDGAT	LASA
lcl Glyma.03G152300_16-53	.....FYDIFR	..R	..L	..G	.....LDGAT	LASA
lcl Glyma.10G025700_15-53	.....LLYDILR	..R	..L	..G	.....LDGPT	LASA
lcl Glyma.02G148100_28-63	.....DILR	..R	..L	..G	.....LDGPT	LASA
lcl Glyma.13G314700_20-55	.....HILN	..R	..L	..G	.....LDGPT	LASA
lcl Glyma.11G181200_32-69	.....AHILT	..R	..L	..G	.....LDGAT	LASA
lcl Glyma.10G075800_22-60	.....DI	IQTHILT	..R	..L	.....LPGPA	LASA
lcl Glyma.03G198600_27-68	.....DI	IQTHILT	..C	..L	.....LDGRA	LASV
lcl Glyma.17G062000_214-251	.....LKILA	..R	..L	..G	.....LTPRD	LASV
lcl Glyma.13G097600_214-251	.....LKILA	..Q	..L	..G	.....LTPRD	LASV
lcl Glyma.09G056100_208-245	.....LKILA	..R	..L	..G	.....LTPRD	LASV
lcl Glyma.08G046500_233-272	.....ILQISDEV	LAHNILS	..R	..L	.....LTPRD	VASI
lcl Glyma.05G239400_207-245	.....LQISDEV	LAHNILS	..R	..L	.....LTPRD	VASI
lcl Glyma.11G090700_79-123	.....QIPPE	LFNHILK	..F	..L	.....LSSD	LVSC
lcl Glyma.01G154100_79-123	.....QIPPE	LFNHILK	..F	..L	.....LSSD	LVSC
lcl Glyma.19G119400_4-54	.....LLPDE	LWRRILE	..I	..GIES	.....N	GFSYKDLCCV
lcl Glyma.08G002000_12-56	.....LCLPDD	VFGMVS	..F	..L	.....LLPRD	V
lcl Glyma.05G194000_12-56	.....LCLPDD	VFGMVS	..F	..L	.....LLPRD	V
lcl Glyma.06G155700_5-46	.....PDD	VFAIVSR	..F	..L	.....MSPRD	V
lcl Glyma.18G006600_20-60	.....SLPDD	LVLSILC	..K	..LSST	.....ATSP	SDFISV
lcl Glyma.11G250600_31-71	.....SLPDD	LVLSILC	..K	..LSST	.....ATSP	SDFISV
lcl Glyma.08G104400_65-106	.....SLPDD	LVLSIFC	..K	..LSST	.....ATKPSD	FVNV
lcl Glyma.05G147400_69-110	.....SLPDD	LVLSIFC	..K	..LSST	.....ATKPSD	FVNI
lcl Glyma.04G195700_16-55	.....CLPDD	LLVLILS	..K	..LSST	.....ASSP	SDFINI
lcl Glyma.11G154800_241-282	.....ELSD	ILTKILA	..S	..LG	.....PMD	LTRV
lcl Glyma.04G138300_237-278	.....ELSD	ILTKILA	..S	..LG	.....PMD	LTRV
lcl Glyma.20G042200_86-132	.....SVLDLPEL	ALDCILE	..R	..L	.....LPPS	L
lcl Glyma.07G235500_86-132	.....SVLDLPEL	ALDCILE	..R	..L	.....LPPS	L
lcl Glyma.14G036300_85-130	.....SVLDLPEL	VLECI	..K	..L	.....LPPS	L
lcl Glyma.02G278300_85-130	.....SVLDLPEL	VLECI	..K	..L	.....LPPS	L
lcl Glyma.19G129600_88-132	.....LLDLPDL	PLECI	..H	..L	.....LSPAE	L
lcl Glyma.03G126600_90-134	.....LLDLPDL	PLECI	..H	..L	.....LSPAE	L
lcl Glyma.03G126700_21-66	.....LLDLPDW	TLDLILE	..C	..L	.....LPPQD	L
lcl Glyma.03G126900_1-44	.....SLLNLP	ILDCILK	..L	..L	.....LSPME	L
lcl Glyma.03G126800_1-45	.....SLLNLPY	ILDCILK	..L	..L	.....LSPME	L
lcl Glyma.19G129700_11-53	.....LFNLQEP	VLDLILK	..L	..L	.....LSPMG	L
lcl Glyma.10G102300_11-56	.....LLDLPEP	TLDLILK	..C	..L	.....FSPNE	L
lcl Glyma.19G077200_211-253	.....HD	ALFFVLG	..Y	..L	.....LGVRD	L
lcl Glyma.05G073500_216-258	.....HD	ALFFVLG	..Y	..L	.....LGVRD	L
lcl Glyma.08G101200_189-221	.....Y	..L	..G	..L	.....LGLSD	L
lcl Glyma.05G144800_201-233	.....Y	..L	..G	..L	.....LGLSD	L



lc1 Glyma.08G043200_22-57	HE	AMFLVLA	Y	LPVYEVVVM
lc1 Glyma.05G235800_20-55	HE	ALFLVLS	Y	LPVYEVVVM
lc1 Glyma.18G253400_43-88	CLPDD	TVIQLLS	C	LSYRDRASL
lc1 Glyma.09G242200_43-88	CLPDD	TVIQLLS	C	LSYQDRASL
lc1 Glyma.08G221300_34-71		FTILL		LPIDA
lc1 Glyma.07G020700_29-66		FTILL		LPIDA
lc1 Glyma.06G132400_2-45	RLPLE	ICMKIFY	L	LDYQH
lc1 Glyma.04G232600_3-45	LPLE	ICMKIFC	L	LDYQH
lc1 Glyma.14G009200_85-113				ALAIL
lc1 Glyma.16G096700_44-84	PAD	ILMQIVR	L	LGPKH
lc1 Glyma.04G112600_47-88	LPSD	ILMHILR	L	LGPKE
lc1 Glyma.14G179500_64-91		LENVLH	F	SRRDRNAA
lc1 Glyma.02G211800_64-91		LENVLH	F	SRRDRNAA
lc1 Glyma.06G095400_17-52	PEQVLEN	VLESVLH	F	SRRDRNAA
lc1 Glyma.04G093500_13-48	PDQVLEN	VLESVLH	F	SRRDRNAA
lc1 Glyma.19G206800_11-41	EE	VLEHVFS	F	NERDRNAI
lc1 Glyma.19G100200_4-36	FPDE	VIHIFD	Y	SHSDRNAL
lc1 Glyma.16G050500_4-36	FPDE	VIHIFD	Y	SHSDRNAL
lc1 Glyma.02G065300_5-35	DE	VIHIFD	Y	SQRDRNDL
lc1 Glyma.12G128600_9-41	LPEE	ILNVVFS	AVS	DTRFRNAL
lc1 Glyma.08G216300_8-40	EE	CWELVFR	F	HGRHLES
lc1 Glyma.07G026200_6-40	LPEE	CWELVFR	F	HGRHLES
lc1 Glyma.19G068600_7-36	E	LLQELQ	K	SSSS
lc1 Glyma.16G071200_7-36	E	LLQEIFQ	K	SSSS
lc1 Glyma.17G019800_12-42	DE	LIVEIFS	R	SKSTRDAC
lc1 Glyma.07G254400_12-42	DD	LIVEIFS	R	SMSTRDAC
lc1 Glyma.15G101100_11-42	PDE	LLTEIFR	R	SKSSRDAG
lc1 Glyma.13G211600_11-42	PDE	LLTEIFR	R	SKSNRDAS
lc1 Glyma.06G318100_54-84	E	LLRRLS	K	SSQORNSN
lc1 Glyma.04G120000_114-144	E	LLRRLS	K	SSQORNSN
lc1 Glyma.09G229800_64-94	E	LLLKI	I	SSTORNSN
lc1 Glyma.11G227300_23-43				DPKDRDAV
lc1 Glyma.02G254300_17-37				DSKDRDAV
lc1 Glyma.15G004900_2-35	NIPHE	IWWEILS	R	KTSDRNSV
lc1 Glyma.08G059500_18-48	DE	VLERISG	M	SRKDKSTV
lc1 Glyma.07G189800_17-46	DE	VLERILG	M	SRKDKSTV
lc1 Glyma.14G136200_20-60	D	VHLILG	R	RQEDKEVF
lc1 Glyma.17G167800_40-72	DIPDE	CLAGIFQ	F	S.VDRKTC
lc1 Glyma.05G097100_59-91	DIPDE	CLAGIFQ	F	S.VDRKTC
lc1 Glyma.17G238700_64-96	SDLPNE	CLASVFQ	F	S.ADRSRC
lc1 Glyma.11G052600_36-77	RLSDD	CLAAIFH	F	T.ADRKRC
lc1 Glyma.01G189600_36-77	RLSDD	CLAAIFH	F	T.ADRKRC
lc1 Glyma.06G042800_9-51	DDIPDN	CLACIFQ	L	P.ADQKKL
lc1 Glyma.04G041800_24-67	DEIPDE	CLGCIHQ	L	P.GERKMF
lc1 Glyma.07G060100_13-46	HLPDD	CLVIFH	G	SRIDRDSF
lc1 Glyma.17G211000_69-101	LPDE	CLFEIFR	R	SGEDRSAC
lc1 Glyma.14G116800_66-106	IEALPDE	CLFEIFR	R	AGEDRSAC
lc1 Glyma.06G068400_68-108	IESLPDE	CLFEILR	R	AGQDRSVC
lc1 Glyma.04G066900_66-109	IESLPDE	CLFEILR	R	AGQDRSVC
lc1 Glyma.13G166200_66-97	VLPDE	CLFEIFR	R	SGKERSSC
lc1 Glyma.04G147000_69-100	VLPDE	CLFEVFR	W	SGKERSSC
lc1 Glyma.17G026300_26-71	FLPKE	LOVEIFA	K	SVFDHMI
lc1 Glyma.07G247800_23-68	SLPKE	LOVEIFA	K	SIFDHMI
lc1 Glyma.02G238900_22-70	LSLPSD	LLEETIA	K	SSIDLVNI
lc1 Glyma.20G105000_9-46	DQLPSA	LVAITMS	K	ASITCSL
lc1 Glyma.17G035100_46-127	EVPMNSSSTISDTLYANRSEDATISLVEEG	LKETLLPSDKIPSEKVIDEVGIVSIKCLYAY		
lc1 Glyma.13G246100_26-61	ELPLE	ILLHVFS	F	KVAQN
lc1 Glyma.07G162700_19-49	LTIVQ	VRRKLI	E	DWLPV
lc1 Glyma.03G214300_17-57	D	IVLNI	F	PRHWARL
lc1 Glyma.13G353900_191-234	CVPKC	ISSHLR	TCCVYKYG	GYETVFEF
lc1 Glyma.07G111600_14-69	NKVDKKSQNEANK	VENIID	LPMN	IVRKNNI
lc1 Glyma.01G094300_169-235	RKERGENNFKSFANN	IYEWNI	DAQMEYN	IMNTLQHM









1c1|Glyma.02G289100\_7-44  
1c1|Glyma.02G289200\_6-45  
1c1|Glyma.06G120600\_42-76  
1c1|Glyma.04G242700\_1-26  
1c1|Glyma.13G036600\_43-77  
1c1|Glyma.12G088900\_2-39  
1c1|Glyma.15G081900\_5-39  
1c1|Glyma.13G230700\_4-39  
1c1|Glyma.04G019900\_5-47  
1c1|Glyma.09G116200\_72-107  
1c1|Glyma.10G154000\_52-81  
1c1|Glyma.08G356100\_5-44  
1c1|Glyma.13G154400\_35-73  
1c1|Glyma.06G213000\_16-54  
1c1|Glyma.04G150400\_60-99  
1c1|Glyma.18G227100\_18-56  
1c1|Glyma.16G197900\_17-58  
1c1|Glyma.14G044300\_96-140  
1c1|Glyma.02G273700\_95-139  
1c1|Glyma.15G046900\_4-35  
1c1|Glyma.08G185900\_4-35  
1c1|Glyma.08G127900\_2-36  
1c1|Glyma.05G169600\_2-36  
1c1|Glyma.13G164200\_19-62  
1c1|Glyma.06G101600\_19-63  
1c1|Glyma.12G051100\_14-48  
1c1|Glyma.15G092600\_22-56  
1c1|Glyma.13G219800\_25-59  
1c1|Glyma.17G251700\_4-43  
1c1|Glyma.14G073300\_3-44  
1c1|Glyma.20G220300\_18-63  
1c1|Glyma.20G220200\_12-43  
1c1|Glyma.10G169300\_5-46  
1c1|Glyma.10G169600\_3-46  
1c1|Glyma.20G220100\_9-52  
1c1|Glyma.10G169700\_11-37  
1c1|Glyma.03G233900\_4-44  
1c1|Glyma.03G253900\_24-65  
1c1|Glyma.19G231000\_9-54  
1c1|Glyma.03G233800\_10-55  
1c1|Glyma.10G150400\_4-45  
1c1|Glyma.06G271000\_8-48  
1c1|Glyma.06G270800\_8-48  
1c1|Glyma.06G271100\_7-47  
1c1|Glyma.13G064500\_14-60  
1c1|Glyma.17G131400\_23-62  
1c1|Glyma.05G049400\_78-117  
1c1|Glyma.07G077600\_23-55  
1c1|Glyma.03G017000\_23-61  
1c1|Glyma.13G149600\_18-56  
1c1|Glyma.10G064800\_18-56  
1c1|Glyma.03G189500\_21-61  
1c1|Glyma.10G238700\_32-71  
1c1|Glyma.09G145700\_29-67  
1c1|Glyma.17G022900\_12-56  
1c1|Glyma.07G251400\_13-56  
1c1|Glyma.16G123900\_129-161  
1c1|Glyma.02G045900\_131-163  
1c1|Glyma.13G246200\_46-82  
1c1|Glyma.07G190100\_53-90  
1c1|Glyma.20G135900\_323-367  
1c1|Glyma.10G255600\_327-371  
1c1|Glyma.19G154800\_16-53  
1c1|Glyma.03G152300\_16-53  
1c1|Glyma.10G025700\_15-53  
1c1|Glyma.02G148100\_28-63  
1c1|Glyma.13G314700\_20-55  
1c1|Glyma.11G181200\_32-69  
1c1|Glyma.10G075800\_22-60  
1c1|Glyma.03G198600\_27-68  
1c1|Glyma.17G062000\_214-251  
1c1|Glyma.13G097600\_214-251  
1c1|Glyma.09G056100\_208-245  
1c1|Glyma.08G046500\_233-272  
1c1|Glyma.05G239400\_207-245  
1c1|Glyma.11G090700\_79-123  
1c1|Glyma.01G154100\_79-123  
1c1|Glyma.19G119400\_4-54  
1c1|Glyma.08G002000\_12-56  
1c1|Glyma.05G194000\_12-56  
1c1|Glyma.06G155700\_5-46  
1c1|Glyma.18G006600\_20-60  
1c1|Glyma.11G250600\_31-71  
1c1|Glyma.08G104400\_65-106  
1c1|Glyma.05G147400\_69-110  
1c1|Glyma.04G195700\_16-55  
1c1|Glyma.11G154800\_241-282  
1c1|Glyma.04G138300\_237-278  
1c1|Glyma.20G042200\_86-132  
1c1|Glyma.07G235500\_86-132  
1c1|Glyma.14G036300\_85-130  
1c1|Glyma.02G278300\_85-130  
1c1|Glyma.19G129600\_88-132  
1c1|Glyma.03G126600\_90-134  
1c1|Glyma.03G126700\_21-66  
1c1|Glyma.03G126900\_1-44  
1c1|Glyma.03G126800\_1-45  
1c1|Glyma.19G129700\_11-53  
1c1|Glyma.10G102300\_11-56  
1c1|Glyma.19G077200\_211-253  
1c1|Glyma.05G073500\_216-258  
1c1|Glyma.08G101200\_189-221  
1c1|Glyma.05G144800\_201-233

CVLSKDWLDI CKS . . . . .  
SIISSKWLKACKLTK . . . . .  
SGVCRGWRDAI . . . . .  
SGVCRGWRDAI . . . . .  
SEVCRGWREAI . . . . .  
SASCRKWRLACCCKH . . . . .  
RGVCKDWR . . . . . VVS . . . . .  
RGVCEWR . . . . . VAS . . . . .  
RSVCRSRRSSVPKIPHL . . . . .  
SKVCTSWN . . . . . RVL . . . . .  
SCVCRLLWNSVAS . . . . .  
STVCKLWHSI . . . . . ISSSSF . . . . .  
SVVCKRWHSVATSV . . . . .  
KLLNKSFSRI . . . . . ISDNF . . . . .  
KLVNKSFSRI . . . . . ISDHAF . . . . .  
TCVRSRWRDI . . . . . VIANGLCCKQLCLR . . . . .  
SSVSSSRRHFV . . . . . VIEHGLCKQLCLK . . . . .  
SCVSPILQRV . . . . . ASEHHAWKQF . . . . .  
SCVSTIFORV . . . . . ASEHGAWKQF . . . . .  
NCVSKR . . . . . WKDS . . . . .  
NCVSKR . . . . . WKDS . . . . .  
NCVSKR . . . . . WKDST . . . . .  
NCVSKR . . . . . WKDST . . . . .  
ACVIGVMYIL . . . . . YNEDPLWMSLCR . . . . .  
SCVSSVMYIL . . . . . CNEDPLWMSLCR . . . . .  
ACVSKRFRSS . . . . . ASDDTLWINLCF . . . . .  
CVVSRFRHSLV . . . . .  
CVVSRFRHSLV . . . . .  
S.VSIAFRSA . . . . . AESDTV . . . . . WD . . . . .  
SLVSKAFRSA . . . . . AESDTV . . . . . WD . . . . .  
SLVSKAFRSA . . . . . AQSDTL . . . . . WDRFI . . . . .  
SLVSKAFRSA . . . . . AEANTV . . . . . W . . . . .  
SLVSKAFYSA . . . . . ADYDTV . . . . . WDR . . . . .  
SVVSKIFRSA . . . . . AESDAV . . . . . WKRF . . . . .  
SLSSSTFRSA . . . . . AQSDAV . . . . . WNK . . . . .  
SLVSSIFRS . . . . .  
SLVSSIVQSM . . . . . ADSDAV . . . . . WEKF . . . . .  
SLVSSSFRSA . . . . . SVTDFV . . . . . WER . . . . .  
SLVSPSLCSC . . . . . ANSDTV . . . . . WRSF . . . . .  
SLVSPTLRSC . . . . . ANSDTV . . . . . WRSF . . . . .  
SMVSSTLRSC . . . . . ADSDLL . . . . . WRFFF . . . . .  
SPVSPSLKAI . . . . . ADSDAV . . . . . WANF . . . . .  
SLVSPSFKETI . . . . . ADSDAV . . . . . WANF . . . . .  
SLVSPFFKETI . . . . . ADSDAV . . . . . WENF . . . . .  
AMTSSALKRL . . . . . LAYSDFI . . . . . WQFFR . . . . .  
ATLNRARFGA . . . . . ASSADFV . . . . . WE . . . . .  
ATLNRARFGA . . . . . ASSADFV . . . . . WE . . . . .  
ARLNRARF . . . . . RDAS . . . . .  
ARLNRARF . . . . . RDAS . . . . . ADFI . . . . . W . . . . .  
ARLNRARFGA . . . . . ASSDSV . . . . . W . . . . .  
ARLNRARFGA . . . . . ASSDSV . . . . . W . . . . .  
ARLNRARFGA . . . . . ASSDSV . . . . . WQT . . . . .  
ARVNRARF . . . . . HRAS . . . . . ASSADFV . . . . . WE . . . . .  
ARVNRARF . . . . . HRAS . . . . . ANEFV . . . . . WE . . . . .  
GCCSMFWKEL . . . . . CFSDCI . . . . . WESLV . . . . .  
GCCSRFWREL . . . . . CFSDCI . . . . . WESLV . . . . .  
FHVSQKIRKA . . . . .  
FHVSQKIRKA . . . . .  
FHVSKTIREAT . . . . .  
VRVSKTVREAAE . . . . .  
ACTCSELRYL . . . . . STSNEL . . . . . WKKK . . . . .  
ACTCSELRYL . . . . . STSNEL . . . . . WKKK . . . . .  
ACTCAALCSI . . . . . SKEENL . . . . . WENVC . . . . .  
ACTCAALCSI . . . . . SKEESL . . . . . WENVC . . . . .  
ACTCASFS . . . . . SKEESL . . . . . WENVC . . . . .  
ACTCASFS . . . . . SKEESL . . . . . WENVC . . . . .  
ASSTSHLRRL . . . . . CTEHLL . . . . . WRNIS . . . . .  
ASVSSLMHRL . . . . . CTQDDL . . . . . WREIST . . . . .  
TATCSQLHSL . . . . . SSHDPL . . . . . WLN . . . . .  
ASTCSQLHAL . . . . . SDHEPL . . . . . WENIC . . . . .  
SSVCRRLYEL . . . . . TKNEDL . . . . . WRMVCQ . . . . .  
SSVCRRLYEL . . . . . TKNEDL . . . . . WRMVCQ . . . . .  
GSVCRRLYEL . . . . . TKNEDL . . . . . WRMVCQ . . . . .  
GSVCRRLYEL . . . . . TKNE . . . . .  
GSVCRRLYEL . . . . . TKNE . . . . .  
SLVCRFLNYA . . . . . ASDEAL . . . . . WRRLYC . . . . .  
SLVCRFLNYA . . . . . ASDEAL . . . . . WRRLYC . . . . .  
SISCRRLHRL . . . . . SSEPL . . . . . WNRLF . . . . .  
SLCKKSLYAL . . . . . SSSEKV . . . . . WFPQC . . . . .  
SLCKKSLYAL . . . . . GSSEKV . . . . . WFTQC . . . . .  
CLCKKSLNAL . . . . . VASEKL . . . . . WLTQC . . . . .  
LITCKRLNSL . . . . . GLH . . . . .  
LITCKRLNSL . . . . . GLH . . . . .  
LITCKRLNRL . . . . . ALHS . . . . .  
LITCKRLNRL . . . . . ALHS . . . . .  
LITCKRLNRL . . . . . GL . . . . .  
SATCHHLRSL . . . . . AASVMP . . . . . YTK . . . . .  
SATCHHLRSL . . . . . AASVMP . . . . . YTK . . . . .  
AAVCRRLRER . . . . . CVSDHL . . . . . WEKHM . . . . .  
AAVCRRLRER . . . . . CVSDHL . . . . . WERHM . . . . .  
AGVCRRLRES . . . . . CVSDHL . . . . . WERH . . . . .  
AGVCRRLRES . . . . . CVSDHL . . . . . WERH . . . . .  
ATVCTSLRDR . . . . . CRSDHL . . . . . WKKH . . . . .  
ATVCTSLRDR . . . . . CRSDHL . . . . . WKKH . . . . .  
AQVCTSLRDR . . . . . IRSDAL . . . . . WEKKI . . . . .  
SEVCTCLRDR . . . . . CRSDPL . . . . . WE . . . . .  
SEVCTFLRDR . . . . . CRSDPL . . . . . WEL . . . . .  
PEVCTFFRDR . . . . . CGSDPL . . . . . WE . . . . .  
SEVCTSLKDK . . . . . CQSDHF . . . . . WEHHI . . . . .  
EGVCKSLCDA . . . . . VRGDP . . . . . LLWRTMHI . . . . .  
EGVCKSLCDA . . . . . VRGDP . . . . . LLWRTMHI . . . . .  
ERVCKSLHST . . . . . VRGDP . . . . . LLWRSIH . . . . .  
ERVCKSLHST . . . . . VCGDP . . . . . LLWRSIH . . . . .

lcl|Glyma.08G043200\_22-57 SQVCTSLRDAVNNDIL.....  
lcl|Glyma.05G235800\_20-55 SQVCTSLRDAVNNDIL.....  
lcl|Glyma.18G253400\_43-88 SSTCKTWRSLGSLPCL.WSSLDLR.....  
lcl|Glyma.09G242200\_43-88 SSTCKTWRSLGSSSLCL.WSSLDLR.....  
lcl|Glyma.08G221300\_34-71 SMTCKRFRALSSSHTL.WRSLCK.....  
lcl|Glyma.07G020700\_29-66 SITCKRFRALTSSHTL.WKSLCK.....  
lcl|Glyma.06G132400\_2-45 QQVCRKWKLVASENAL.WSDLF.....  
lcl|Glyma.04G232600\_3-45 QQVCRKWKLVASDNTL.WSNLF.....  
lcl|Glyma.14G009200\_85-113 FQVCSWREVSRSDDL.WQRLTRR.....  
lcl|Glyma.16G096700\_44-84 CLVSKSWRSLVSDNAL.WAHF.....  
lcl|Glyma.04G112600\_47-88 SVVCKALRSLVSDNRL.WIHF.....  
lcl|Glyma.14G179500\_64-91 SLVCRSWYRA.....  
lcl|Glyma.02G211800\_64-91 SLVCRSWYRA.....  
lcl|Glyma.06G095400\_17-52 SLVCKSWYRA.....  
lcl|Glyma.04G093500\_13-48 SLVCKSWYRA.....  
lcl|Glyma.19G206800\_11-41 SLVCKSWYRI.....  
lcl|Glyma.19G100200\_4-36 SLVCKSWYRI.....  
lcl|Glyma.16G050500\_4-36 SLVCKSWYRI.....  
lcl|Glyma.02G065300\_5-35 SLVCKNWHRL.....  
lcl|Glyma.12G128600\_9-41 SLVSWSFYHL.....  
lcl|Glyma.08G216300\_8-40 SLVCKQFLSITN.....  
lcl|Glyma.07G026200\_6-40 SLVCKQFLSITN.....  
lcl|Glyma.19G068600\_7-36 SLVCKRWLRHL.....  
lcl|Glyma.16G071200\_7-36 SLVCKRWLRHL.....  
lcl|Glyma.17G019800\_12-42 SLVCRRWFRLL.....  
lcl|Glyma.07G254400\_12-42 SLVCRRWFRLL.....  
lcl|Glyma.15G101100\_11-42 SLVCTRWRLL.....  
lcl|Glyma.13G211600\_11-42 SLVCTRWRLL.....  
lcl|Glyma.06G318100\_54-84 SLVCKRWLNL.....  
lcl|Glyma.04G120000\_114-144 SLVCKRWLNL.....  
lcl|Glyma.09G229800\_64-94 SLVCKRWLNL.....  
lcl|Glyma.11G227300\_23-43 SQVCRRWYEL.....  
lcl|Glyma.02G254300\_17-37 SQVCRRWYEL.....  
lcl|Glyma.15G004900\_2-35 SLVCKRLLYL.....  
lcl|Glyma.08G059500\_18-48 SLVCKEWFNA.....  
lcl|Glyma.07G189800\_17-46 SLVCKEWFNA.....  
lcl|Glyma.14G136200\_20-60 RLVCKRWLQLLNINIENYFREFC.....  
lcl|Glyma.17G167800\_40-72 SAVCRRWLRV.....  
lcl|Glyma.05G097100\_59-91 SAVCRRWLRV.....  
lcl|Glyma.17G238700\_64-96 SLVCRRWLQ.....  
lcl|Glyma.11G052600\_36-77 SLVCRRWLRV.DGQRRHRLS.....  
lcl|Glyma.01G189600\_36-77 SLVCLRWLRV.DGQRRHRLS.....  
lcl|Glyma.06G042800\_9-51 SLVCRRWLKV.EGHTHRLC.....  
lcl|Glyma.04G041800\_24-67 SLVCSRWLKIEGQTYQRSL.....  
lcl|Glyma.07G060100\_13-46 GLTCRRWLHV.....  
lcl|Glyma.17G211000\_69-101 ACVSKRWLML.....  
lcl|Glyma.14G116800\_66-106 ACVSKRWLML.LSSIC.....  
lcl|Glyma.06G068400\_68-108 ASVSKRWLML.LSSIC.....  
lcl|Glyma.04G066900\_66-109 ASVSKRWLML.LSSICKNE.....  
lcl|Glyma.13G166200\_66-97 ACVSKRWL.....  
lcl|Glyma.04G147000\_69-100 AYVSKRWL.....  
lcl|Glyma.17G026300\_26-71 KLCKEFLRAAEDNYVYRHA.....  
lcl|Glyma.07G247800\_23-68 KLCKEFLRAAEDDYVYRHA.....  
lcl|Glyma.02G238900\_22-70 KLSCKDFLHASEANNVWKNVSL.....  
lcl|Glyma.20G105000\_9-46 ASTSSTFRSCARHI.....  
lcl|Glyma.17G035100\_46-127 ELESSMFPSTESEIAAIDLTLN.....  
lcl|Glyma.13G246100\_26-61 CTQGSKFRNCKQF.....  
lcl|Glyma.07G162700\_19-49 LVVCKDWLANAVD.....  
lcl|Glyma.03G214300\_17-57 ACVCTKFSSSLVRFDFCWKTKC.....  
lcl|Glyma.13G353900\_191-234 ERYIVQNAARLLQDMTI.....  
lcl|Glyma.07G111600\_14-69 SVVSSQCHQRQSRPISLAMDLDLAKK....  
lcl|Glyma.01G094300\_169-235 TMVATAVQTSHECSKETIIDILVTLGSLGQ