

Human_c-Cbl	TTT	1	10
Human_c-Cbl consensus	CKICAE	DVKI.....EP
lcl|Glyma.09G103000_21-70	PICLEEYL	KDPV.....ILP
lcl|Glyma.15G275000_20-69	QICG	DNIGNNA.....NGDPFIACDV
lcl|Glyma.04G067900_40-89	QICG	DNIGNNV.....NGDPFIACDV
lcl|Glyma.06G069600_30-98	QICG	DTVGLTA.....TGDVVFACNE
lcl|Glyma.13G202500_20-69	PLKSLNGQI	QICG	DTVGLTA.....TGDVVFACNE
lcl|Glyma.02G080900_38-87	QICS	DVGKTV.....DGEFFVACDV
lcl|Glyma.16G165900_30-96	QICG	DELEVTV.....NGEPPFVACNE
lcl|Glyma.05G187300_39-88	TELSGQI	QICG	DELEVTV.....NGEPPFVACNE
lcl|Glyma.08G145600_39-88	QICG	DEIEITV.....DGEFFVACNE
lcl|Glyma.10G223500_41-90	QICG	DEIEITV.....DGEFFVACNE
lcl|Glyma.02G205800_37-86	EICG	DDVGLTV.....DGDLFVACNE
lcl|Glyma.17G072200_27-95	PLKKNLDGQV	EICG	DDVGLTV.....DGDLFVACNE
lcl|Glyma.04G153700_37-86	EICG	DVGGLTV.....DGDLFVACNE
lcl|Glyma.06G225500_37-86	EICG	DVGGLTV.....DGDLFVACNE
lcl|Glyma.04G142700_37-86	EICG	DSVGLTV.....DGDLFVACNE
lcl|Glyma.06G225400_46-117	KPVKNLDGQL	EICG	DSVGLTV.....DGDLFVACNE
lcl|Glyma.06G316800_40-89	QLCG	DDIGVNE.....DGDLFVACNE
lcl|Glyma.09G051100_38-87	RVCG	DEIGYKE.....NGELFVACHV
lcl|Glyma.15G157100_38-87	RVCG	DEIGYME.....NGELFVACHV
lcl|Glyma.08G088400_32-81	RVCG	DEIGYGE.....DGKLFVACHV
lcl|Glyma.08G302500_39-88	QICG	DTIGLTA.....TGDVVFACHE
lcl|Glyma.18G117100_39-88	QICG	DTIGLTA.....TGDVVFACHE
lcl|Glyma.04G063800_9-58	NSCG	EQIGLDA.....NGELFVACHE
lcl|Glyma.06G065000_6-58	HFNSCG	EQIGLDA.....NGELFVACHE
lcl|Glyma.05G160000_385-436	PLNNTCG	EQVGLNA.....NGEVFVACHE
lcl|Glyma.08G117500_6-58	PLNNTCG	EQVGLND.....NGEVFVACHE
lcl|Glyma.12G017600_131-178	PLGCD	CKVMSDE.....HGEDI LPC
lcl|Glyma.02G090900_13-60	CRICHDE	DEES.....NMDTPC
lcl|Glyma.18G292200_14-61	CRICHDE	DEES.....NMDTPC
lcl|Glyma.18G242400_64-112	CRICQEE	DFIF.....NMESPC
lcl|Glyma.02G103800_77-125	CRICRNP	DAEN.....PLRYPC
lcl|Glyma.07G215200_80-128	CRICRNP	DAEN.....PLRYPC
lcl|Glyma.13G372600_71-120	CRICLDI	GGE.....DLIAPC
lcl|Glyma.15G001100_69-118	CRICLDI	GGE.....DLIAPC
lcl|Glyma.11G236400_33-82	CRICLET	DGR.....DFIAPC
lcl|Glyma.18G020800_33-82	CRICLET	DGR.....DFIAPC
lcl|Glyma.05G182200_29-78	CRICLET	DGR.....NFIVPC
lcl|Glyma.05G010700_54-89	RICLES	DSDP
lcl|Glyma.17G118400_55-107	RICLES	DSDP
lcl|Glyma.02G310000_267-316	RICLVELG	EGGNT.....LKMEC
lcl|Glyma.14G002700_268-317	RICLVELG	EGGNT.....LKMEC
lcl|Glyma.03G180200_231-280	RICLIELG	EGSDT.....LKMEC
lcl|Glyma.19G180900_243-292	RICLIELG	EGSDT.....LKMEC
lcl|Glyma.13G005300_253-302	RICLVELV	EGGNT.....LRMEC
lcl|Glyma.20G064600_253-302	RICLVELA	EGGNT.....LRMEC
lcl|Glyma.11G147100_266-315	RICLVDL	EGGET.....FKLEC
lcl|Glyma.12G068000_266-315	RICLVDL	EGGET.....FKLEC
lcl|Glyma.12G173300_234-283	RICLVDL	EGGET.....LKMEC
lcl|Glyma.13G326500_259-308	RICLVDL	EGGET.....LKMEC
lcl|Glyma.10G051800_240-289	RICMVELG	EGGNT.....FKLEC
lcl|Glyma.13G139200_260-309	RICFVELG	EGADT.....FKLEC
lcl|Glyma.13G213600_217-265	RICFVDC	DERNT.....FKMEC
lcl|Glyma.15G099100_214-262	RICFVDC	DERNT.....FKMEC
lcl|Glyma.01G107700_99-151	RICHLG	LESDD.S.QEESGVP
lcl|Glyma.U027600_104-157	RICHLG	LESDD.S.QEESGVP
lcl|Glyma.07G142300_108-159	RICHMG	LESDD.S.HESGAP
lcl|Glyma.02G253000_84-135	RICHLS	MDMT.NHESGTP
lcl|Glyma.14G063500_84-135	RICHLS	MDMT.NHESGTS
lcl|Glyma.13G227900_172-233	RICHLTSVQSLD	TTVGTASSAKS.A
lcl|Glyma.15G084600_183-244	RICHLTSVQSSD	TTVGTASSATS.A
lcl|Glyma.04G063700_161-222	RICHLTSVQSSD	TTVGTASSATS.A
lcl|Glyma.06G064900_158-219	RICHLTSVQSSD	TTVGTASSATS.A
lcl|Glyma.05G159600_181-243	RICHLASG	PPLEAADVGTASSATTNT
lcl|Glyma.04G084500_138-184	CPVLEEMG	KEQN.....LVACG
lcl|Glyma.06G086100_152-198	CPVLEEMG	KEQN.....LVACG
lcl|Glyma.02G232900_1829-1880	CPICYSVH	.....TNHG
lcl|Glyma.01G095300_99-145	CAICL	LEFEDDN.....VLRLLTL
lcl|Glyma.08G270800_99-145	CAICL	LEFEDDN.....MVRLLTL
lcl|Glyma.01G017200_110-156	CAICL	LEFHDSD.....MLRLLTV
lcl|Glyma.02G210700_138-184	CAVCL	NEFLDDE.....TLRLIPK
lcl|Glyma.14G178400_137-183	CAVCL	NEFRDDE.....TLRLIPK
lcl|Glyma.04G098100_128-174	CAVCL	NEFEDE.....TLRFIPN
lcl|Glyma.06G099800_131-177	CAVCL	NEFEVE.....TLRFIPN
lcl|Glyma.10G156500_116-162	CAVCL	NEFEDTE.....TLRLIPK
lcl|Glyma.20G231900_117-163	CAVCL	NEFEDTE.....TLRLIPK
lcl|Glyma.19G236800_118-164	CAVCL	CEFEDTE.....TLRLIPK
lcl|Glyma.03G239900_110-156	CAVCL	CEFEDTE.....TLRLIPK
lcl|Glyma.09G140700_126-172	CAVCL	TDFDKD.....ALRLLPK
lcl|Glyma.16G194600_116-162	CAVCL	TDFTHKD.....SIRLLPK
lcl|Glyma.09G140800_108-154	CAVCL	AEFDDAD.....ALRLLPK
lcl|Glyma.11G242800_110-156	CAVCL	VEFEDSD.....TIKMLPK
lcl|Glyma.14G037000_80-126	CAVCL	GEFEDCD.....VVKMLPK
lcl|Glyma.06G118400_62-106	CAVCL	SEFECD.....SVKIQPK
lcl|Glyma.01G017300_141-187	CSVCL	SEFQDDE.....SVRLLPK
lcl|Glyma.09G205600_131-177	CSVCL	SEFRDDE.....SVRLLPK
lcl|Glyma.01G095600_140-186	CSVCL	SEFQDDE.....SVRLLPK
lcl|Glyma.08G271100_141-187	CSVCL	SEFEDDE.....SVRLLPK
lcl|Glyma.04G128100_143-189	CSVCL	SEFEENE.....DLRLLPK
lcl|Glyma.06G310600_135-181	CSVCL	IEFQENE.....NLRLLPK
lcl|Glyma.02G210400_152-198	CSVCL	NEFQEEE.....TLRLLPK
lcl|Glyma.14G177900_153-199	CSVCL	NEFQEEE.....TLRLLPK
lcl|Glyma.08G070100_155-204	GTECSVCL	SEFQEDE.....SLRLLPK
lcl|Glyma.13G042300_156-201	CSVCL	SEFQEDE.....SLRLLPK
lcl|Glyma.08G177000_180-226	CAVCL	SEFQEDE.....NLRLLPK
lcl|Glyma.15G056000_166-212	CAVCL	SEFQEDE.....NLRLLPK
lcl|Glyma.05G175400_149-200	GTECSVCL	GEFEHDE.....SLRLLPK
lcl|Glyma.18G014500_194-240	LVCL	GEFQEEE.....SLRLLPK
lcl|Glyma.18G014600_153-202	ETELVCL	GEFHQEE.....SLRLLPK
lcl|Glyma.11G242500_156-205	ESELVCL	GEFQEEE.....SLRLLPK
lcl|Glyma.11G122400_135-179	DCAVCL	LEFEDDE.....YVRTLPI
lcl|Glyma.12G047300_133-176	AVCL	LEFEDED.....YVRTLPV

lcl|Glyma.01G032200_147-191	CAVCL	CEFLEQD	KLRLLPM	CNHA
lcl|Glyma.02G033200_149-193	CAVCL	CEFLEQD	KLRLLPM	CNHA
lcl|Glyma.13G071600_172-216	CAVCL	CEFSEKD	KLRLLPM	CSHA
lcl|Glyma.19G011200_168-212	CAVCL	CEFSEKD	KLRLLPM	CSHA
lcl|Glyma.08G289200_148-194	CAVCL	COFSEQD	MLRLLPL	CNHA
lcl|Glyma.18G135300_149-195	CAVCL	COFSEQD	MLRLLPL	CNHA
lcl|Glyma.05G035800_139-185	CAVCL	CEFSKED	KLRLLPM	CTHA
lcl|Glyma.17G091600_134-180	CAVCL	CEFSKED	KLRLLPM	CTHA
lcl|Glyma.13G092000_129-175	CAVCL	CEFEPEP	KLRLLPK	CSHA
lcl|Glyma.17G068300_125-171	CAVCL	CEFEPEP	KLRLLPK	CSHA
lcl|Glyma.03G103800_137-183	CAVCL	SKFHHD	LLRLLPL	CCHA
lcl|Glyma.07G120300_138-184	CAVCL	SKFHHD	LLRLLPL	CCHA
lcl|Glyma.15G183300_121-167	CAVCL	SKFEQND	LLRLLPL	CCHA
lcl|Glyma.01G146500_110-156	GLECAVCL	SKFEDVE	ILRLLPK	CKHA
lcl|Glyma.09G194100_115-161	GLECAVCL	SKFEDVE	ILRLLPK	CKHA
lcl|Glyma.04G083400_113-140	CTVCL	SKFEDTE	ILRLLPK	CKHA
lcl|Glyma.06G084800_126-176	GLECTVCL	SKFEDTE	ILRLLPK	CKHA
lcl|Glyma.14G146700_132-182	GLECTVCL	SKFEDTE	ILRLLPK	CKHT
lcl|Glyma.02G106400_97-139	CAVCL	NKFVKAK	VLRLLSK	CKHA
lcl|Glyma.04G091400_117-163	CAVCL	NKFVAAE	VLRLLPK	CKHA
lcl|Glyma.03G215500_93-139	CAVCL	SEFADGD	EGRVLPN	CKHA
lcl|Glyma.19G212000_90-136	CAVCL	SEFSDGD	EGRVLPN	CKHS
lcl|Glyma.02G016800_86-132	CAVCL	SEFADGE	EGRFLPN	CNHA
lcl|Glyma.07G046400_108-154	CAVCL	SEIVQGE	KLRLLPK	CNHG
lcl|Glyma.16G014600_107-153	CAVCL	SEIVEGE	KLRLLPK	CNHG
lcl|Glyma.03G263000_99-148	GLECAVCL	SEVVEGE	KARLLPK	CNHG
lcl|Glyma.07G245400_93-139	CAVCL	SEFENGE	TGRVLPK	CNHS
lcl|Glyma.17G028400_95-141	CAVCL	SEFENGE	TGRVLPK	CNHS
lcl|Glyma.09G042400_118-164	CAVCL	SEFEPGE	TGRVLPK	CNHS
lcl|Glyma.13G332800_88-134	CAICL	GEFEAGE	WLKLLPN	CTHG
lcl|Glyma.06G284600_119-165	CAVCL	SALEGEE	KAKLLPN	CNHF
lcl|Glyma.12G121400_124-171	CAVCL	SALEGEE	KAKLLPN	CNHF
lcl|Glyma.12G208600_102-147	CAVCL	SVLEEGE	HVRLLPN	CKHS
lcl|Glyma.13G292600_94-142	SVECTVCL	SVLEEGE	QVRLLPN	CKHS
lcl|Glyma.09G214600_99-144	CAVCL	GDFEDGE	ELRTMPE	CMHS
lcl|Glyma.16G075300_86-130	TCAVCL	EEFEAGE	ELRRLPE	CMHF
lcl|Glyma.13G108500_112-158	CPVCL	SGFEAGE	EVRKLPR	CKHW
lcl|Glyma.17G050900_108-154	CPVCL	SGFEAGE	EVRKLPR	CKHW
lcl|Glyma.18G176200_157-203	CPVCL	SVFANGE	EVRQLSA	CKHS
lcl|Glyma.02G228800_114-163	ESECVICL	SVIEEGE	IGRGLPK	CCHA
lcl|Glyma.01G157400_104-150	CAICL	ADFAAGD	EIRVLPQ	CGHG
lcl|Glyma.11G087600_104-150	CAICL	AEEAAGD	EIRVLPQ	CGHG
lcl|Glyma.04G015200_96-142	CAICL	TEFAAGD	EIRVLPQ	CGHG
lcl|Glyma.06G015200_96-142	CAICL	TEFAAGD	EIRVLPQ	CGHG
lcl|Glyma.09G196700_100-146	CAICL	TEFGAGD	EVRVLPQ	CGHG
lcl|Glyma.16G112200_99-145	CAICL	TEFGAGD	EIRVLPQ	CGHG
lcl|Glyma.04G215600_139-185	CVICL	SEFTSGD	KVRILPK	CNHR
lcl|Glyma.06G150400_141-187	CVICL	SEFTSGE	KVRILPK	CNHG
lcl|Glyma.05G188900_144-190	CVICL	SEFANGD	KVRILPK	CNHG
lcl|Glyma.08G146600_143-189	CVICL	SEFANGD	KVRILPK	CNHG
lcl|Glyma.09G275300_113-159	CPICL	GEFEKGD	KVRMLPK	CNHG
lcl|Glyma.18G214200_108-154	CPICL	GEFEKGD	KVRMLPK	CNHG
lcl|Glyma.07G173600_79-113	CPICL	DE	DE	CNHG
lcl|Glyma.06G143100_111-157	CPICL	GEFVDGE	KVRVLPK	CNHG
lcl|Glyma.08G088100_109-152	VIICL	AEFSDGD	PIRFLPK	CNHY
lcl|Glyma.15G157400_108-152	ICAVICL	TEFSDGD	RIRFLPN	CNHR
lcl|Glyma.04G182100_194-239	CLICL	EEFHVGN	QVRGLP	CAHN
lcl|Glyma.06G183300_233-278	CLICL	EEFHVGN	QVRGLP	CAHN
lcl|Glyma.05G037000_234-279	CPICL	EEFYVGN	EVRGLP	CAHN
lcl|Glyma.17G090200_234-279	CPICL	EEFYVGN	EVRGLP	CAHN
lcl|Glyma.11G191800_129-174	CAICL	EELREGD	AVKVIPY	CKHV
lcl|Glyma.01G151700_511-557	CVICL	VEYEDGD	SMRVLP	CHHE
lcl|Glyma.09G216900_511-557	CVICL	VEYEDGD	SMRVLP	CHHE
lcl|Glyma.16G076000_519-565	CVICL	VEYEDGD	NMRVLP	CHHE
lcl|Glyma.16G107700_522-568	CVICL	VEYEDGD	NMRVLP	CHHE
lcl|Glyma.13G165500_478-524	CVICL	ADYEEDG	QIRVLP	CFHE
lcl|Glyma.17G105500_479-525	CVICL	ADYEEDG	QIRVLP	CFHE
lcl|Glyma.01G217300_329-374	CCICL	SSYDDGV	ELRELP	CGHH
lcl|Glyma.11G026000_332-377	CCICL	SSYDDGV	ELRELP	CGHH
lcl|Glyma.05G048800_325-370	CCICL	SAYDDGV	ELRQLP	CGHH
lcl|Glyma.17G130700_323-368	CCICL	SAYDDGV	ELRQLP	CSHH
lcl|Glyma.09G265600_314-359	CCICL	SAYDDGA	ELRELP	CNHH
lcl|Glyma.18G225500_320-365	CCICL	SAYDNDG	ELRELP	CNHH
lcl|Glyma.02G085200_305-350	CCICL	CSYEDGA	ELHALP	CNHH
lcl|Glyma.07G170200_304-349	CCICL	CSYEDGA	ELHALP	CNHH
lcl|Glyma.05G238900_292-337	CCICI	SSYEDGA	ELHVLP	CNHH
lcl|Glyma.08G046000_293-338	CCICI	SSYEDGA	ELHVLP	CNHH
lcl|Glyma.03G120200_273-318	CCICL	CPYVEGA	ELYRLP	CTHH
lcl|Glyma.19G124800_275-320	CCICL	CPYVEGE	ELYRLP	CTHH
lcl|Glyma.02G302400_289-335	DPECCICL	AKYKDEE	EVRQLP	CSHM
lcl|Glyma.14G011800_289-335	DPECCICL	AKYKDEE	EVRQLP	CSHM
lcl|Glyma.08G332300_279-325	DPECCICL	AKYKDEE	EVRQLP	CSHL
lcl|Glyma.18G074600_278-324	DPECCICL	AKYKDEE	EVRQLP	CSHL
lcl|Glyma.13G361000_365-409	CCICL	AKYADDD	ELRELP	CSHV
lcl|Glyma.15G012900_392-436	CCICL	AKYADDD	ELRELP	CSHF
lcl|Glyma.14G129100_343-387	CCICL	AKYENND	ELRELP	CSHL
lcl|Glyma.17G203800_375-419	CCICL	AKYENND	ELRELP	CSHL
lcl|Glyma.01G162900_187-232	SVCL	QDFMLGE	TVRSLPH	CHHM
lcl|Glyma.11G080500_187-232	SVCL	QDFMLGE	TVRSLPH	CHHM
lcl|Glyma.02G044300_186-231	SVCL	QDFMLGE	TGRSLPH	CHHI
lcl|Glyma.04G143800_84-127	CSICF	QDFEEDG	FVRTLPK	CGHF
lcl|Glyma.08G316400_182-225	CSICF	QDFEYEE	FVRTLPK	CGHF
lcl|Glyma.18G096600_201-244	CSICF	QDFEEDG	FVRTLPK	CGHF
lcl|Glyma.02G291200_187-233	CSICF	QDFEDGE	LVRILPK	CDHL
lcl|Glyma.05G025200_170-216	CAICL	QDIEVGE	IARSLPR	CHHT
lcl|Glyma.17G101800_167-213	CAICL	QDIEVGE	IARSLPR	CHHT
lcl|Glyma.10G124600_688-735	CAICL	ETPVQGE	IRHSLP	CLHK
lcl|Glyma.20G076700_718-765	CAICL	ETPVQGE	IRHSLP	CLHK
lcl|Glyma.10G217500_232-277	CAICL	EDYCVGE	KLRILP	CCHK
lcl|Glyma.20G174500_247-292	CAICL	EDYCVGE	KLRILP	CCHK
lcl|Glyma.11G137400_208-259	ELTCTICL	DQVKRGE	LVRSLP	CLHQ
lcl|Glyma.12G060800_236-287	ELTCTICL	DQVKRGE	LVRSLP	CLHQ
lcl|Glyma.11G220200_212-254	ELTCTICL	EQVDVGD	VLRSLP	CLHQ

lc1|Glyma.18G037200_212-254	SVCL	EQVNVGD	VLRSLP	CLHQ
lc1|Glyma.02G194400_103-147	SICL	GDYKGS	LLRVLPD	CDHV
lc1|Glyma.10G083100_103-147	SICL	GDYKGS	FLRVLPD	CDHV
lc1|Glyma.03G203400_104-149	CSICL	ADYKGT	MLRMLPD	CGHQ
lc1|Glyma.10G121100_107-150	CSICL	ADYKDT	CVKLLSN	CGHL
lc1|Glyma.10G121500_113-160	LC CSICL	ADYKNT	WLKLLPD	CGHM
lc1|Glyma.03G017500_84-127	CVICL	AEYKEKE	LLRIIPK	CGHT
lc1|Glyma.07G078800_84-127	CVICL	AEYKEKE	LLRIIPK	CGHT
lc1|Glyma.09G264300_89-135	CVICL	ADYKERE	LLRIIPK	CGHT
lc1|Glyma.18G227700_89-135	CVICL	ADYRERE	VLRIMP	CGHT
lc1|Glyma.10G202500_86-132	CTVCL	SEYQGED	MLRILPY	CGHS
lc1|Glyma.20G187900_86-132	CTVCL	SEYQGED	MLRILPY	CGHS
lc1|Glyma.09G001600_110-156	CSVCL	LDYQAE	LLQOIPA	CGHT
lc1|Glyma.05G217000_334-378	TAICL	SEYQPK	TLRSIPE	CNHY
lc1|Glyma.08G022900_332-375	CAICL	CEYEAK	TLRSIPE	CNHY
lc1|Glyma.07G056200_314-357	CVICL	SEYNSKE	TLRIPE	CKHC
lc1|Glyma.16G025100_320-363	CWICL	SEYNSKE	TLRIPE	CKHC
lc1|Glyma.19G255700_319-362	CTICL	SEYKTK	TLRIPE	CAHC
lc1|Glyma.06G127300_326-371	CSICL	SEYIPKE	TVKTIPE	CGHC
lc1|Glyma.07G062800_119-162	CSICL	CEYKDS	MLRMPPE	CRHY
lc1|Glyma.16G030900_115-158	CSICL	CEYKDS	MLRMPPE	CRHY
lc1|Glyma.09G253500_112-155	CSICL	CEYKDS	MLRMPPE	CRHY
lc1|Glyma.18G239400_89-132	CSICL	CEYKDS	MLRMPPE	CRHY
lc1|Glyma.09G253400_107-153	CSICI	EDYEDSE	MLRMPPE	CRHY
lc1|Glyma.02G264800_105-151	CSICL	GVFADGE	KLKVLPG	CDHS
lc1|Glyma.14G058000_100-146	CSICL	GAFADGE	KLKVLPG	CDHS
lc1|Glyma.11G231400_107-153	CSICL	GEFRDGE	KVKVLP	CDHY
lc1|Glyma.18G025700_107-153	CSICL	GEFRDGE	KVKVLP	CDHY
lc1|Glyma.11G169500_92-138	CSICL	SLFRGNE	KLKVLIE	CEHV
lc1|Glyma.18G060400_108-154	CSICL	SLFQSN	KLKVLIE	CEHV
lc1|Glyma.01G093800_57-96	CAVCL	SKFGER	EVIRVMR	CEHV
lc1|Glyma.04G153400_57-104	CAVCL	SKFGER	EVIRVMR	CEHV
lc1|Glyma.04G153500_74-120	DCAVCL	CKMGETE	ERITLRL	CGHV
lc1|Glyma.13G115900_83-134	CAVCL	SQSVED	EVRELMN	CYHV
lc1|Glyma.17G043900_85-135	CAVCL	SQSVED	EVRELMN	CYHV
lc1|Glyma.01G221300_81-127	AVCL	YEFEGED	EIRRLTN	CRHI
lc1|Glyma.11G022400_87-133	AVCL	YEFEGED	EIRRLTN	CRHI
lc1|Glyma.05G210000_86-133	AVCL	SEFEEND	EIRRLAN	CRHI
lc1|Glyma.08G016700_85-132	AVCL	SEFEEND	EIRRLAN	CRHI
lc1|Glyma.17G159400_72-117	SACVCL	YEFEGED	EIRWLTN	YRHI
lc1|Glyma.02G223600_99-145	CSVCL	TFEPES	ENRSL	CGHL
lc1|Glyma.14G190300_98-144	CSVCL	TFEPES	ENRSL	CGHL
lc1|Glyma.13G009100_96-142	CCVCL	TKFEPES	ENCLSL	CGHI
lc1|Glyma.05G182000_68-114	CRVCL	SEFQEG	KVRNLN	CRHT
lc1|Glyma.08G139700_68-114	CRVCL	SEFQEG	KVRNLN	CRHT
lc1|Glyma.11G236600_73-119	CRVCL	SEFEEG	KVRKLK	CQHT
lc1|Glyma.18G020400_70-116	CRVCL	SEFEQGE	KLKRLK	CQHT
lc1|Glyma.05G218700_107-152	CVCL	GEFELKE	ELLQIPY	CKHV
lc1|Glyma.08G024800_108-153	CVCL	GEFELNE	ELLQIPY	CNHV
lc1|Glyma.13G002800_104-153	DSL CVCL	GEFELKE	ELVQIPY	CKHV
lc1|Glyma.20G066300_104-153	DSL CVCL	GEFELKE	ELVQIPY	CKHV
lc1|Glyma.10G007200_117-163	CSVCL	SEFQDE	KLRVIPN	CSHV
lc1|Glyma.20G088900_139-185	CSVCL	SEFQDE	KLRVIPN	CSHV
lc1|Glyma.10G187100_136-182	CAVCL	NEFQED	KLRVIPN	CSHV
lc1|Glyma.20G203400_135-181	CAVCL	NEFQED	KLRIIPN	CSHV
lc1|Glyma.19G163600_128-173	VVCL	TEFQEH	MLKALPI	CKHA
lc1|Glyma.11G243400_93-139	CCVCL	CRFEDNQ	EVSELP	CKHY
lc1|Glyma.18G013800_88-132	CCVCL	CRFEANQ	EVSELP	CKHY
lc1|Glyma.13G232800_104-150	CSVCL	GTIVEDT	ISRVLPN	CKHI
lc1|Glyma.13G232800_105-147	SVCL	GTIVEDT	ISRVLPN	CKHI
lc1|Glyma.15G079900_101-151	VVE CSVCL	GTIVEDA	ITRVLPN	CKHI
lc1|Glyma.04G021200_74-120	CAVCL	DEIESEQ	PARLVPG	CNHG
lc1|Glyma.06G021400_73-119	CAVCL	DEIESEQ	PARVVP	CNHG
lc1|Glyma.14G221800_70-116	CAVCL	DEIGTEQ	PVRVVP	CNHA
lc1|Glyma.17G260700_70-116	CAVCL	DHIGTEQ	PARLVPG	CNHA
lc1|Glyma.04G181300_83-127	CAVCL	ENFKVGD	VCRLLPN	CGHS
lc1|Glyma.06G183600_83-127	CAVCL	ENFKIGD	VCRLLPN	CGHS
lc1|Glyma.13G170300_69-114	CAVCL	ENLITGD	KCRFLPM	CKHS
lc1|Glyma.19G010400_71-116	CAVCL	ENLITGD	KCRFLPV	CKHS
lc1|Glyma.13G092100_125-170	VVCL	DAFRNAQ	WCRKLA	CGHV
lc1|Glyma.17G068200_100-145	VVCL	DAFRNAQ	WCRKLA	CGHV
lc1|Glyma.10G244900_121-165	AVCL	EDLGLEQ	QVMNLS	CSHK
lc1|Glyma.20G149700_120-164	AVCL	EDLGQEQ	QVMNLS	CSHK
lc1|Glyma.01G048700_113-166	DLE CVVCL	EEFGVGG	VAKEMP	CKHR
lc1|Glyma.02G108300_190-234	CVVCL	EEFGVGG	VAKEMP	CKHR
lc1|Glyma.02G071200_226-269	QPVCL	EDVEVGS	EAKEMP	CKHK
lc1|Glyma.16G152400_225-267	CTVCL	EDVEVGS	EAKEMP	CKHK
lc1|Glyma.18G000200_236-278	CSVCL	DDFEVGS	EAKEMP	CKHR
lc1|Glyma.02G161600_186-230	PVCK	DKFEVGS	EARQMP	CNHL
lc1|Glyma.10G101400_186-230	PVCK	DKFELGS	EARQMP	CNHL
lc1|Glyma.02G276700_252-296	PVCK	EKFELGT	EAREMP	CNHI
lc1|Glyma.14G039000_202-246	PVCK	EKFELGT	EAREMP	CNHI
lc1|Glyma.13G072800_206-250	PVCK	ERFELGS	EARKMP	CNHV
lc1|Glyma.13G072900_126-169	K SVCI	ERFEVGS	EARKMP	CDHI
lc1|Glyma.04G251600_220-265	CPVCO	EEFEVGG	EARELQ	CKHI
lc1|Glyma.08G185400_202-246	PICK	DEFLLDM	EARELP	CKHF
lc1|Glyma.15G047300_199-243	PICK	DEFELDM	EARELP	CKHF
lc1|Glyma.09G165200_203-248	CAVCK	DTFELGE	TAKQIP	CKHI
lc1|Glyma.16G213500_202-247	CAVCK	DTFELGE	TAKQIP	CKHI
lc1|Glyma.10G285300_179-224	CAVCO	DEFKGS	KVTQMP	CKHA
lc1|Glyma.20G103700_178-223	CAVCO	DEFKGS	LVTQMP	CKHA
lc1|Glyma.02G249100_188-232	AVCK	EPFELST	MAKEMP	CKHI
lc1|Glyma.14G067300_187-231	AVCK	EPFELCT	MAKEMP	CKHI
lc1|Glyma.11G220400_185-229	AVCK	EAFETST	AVREMP	CKHI
lc1|Glyma.18G037000_174-209	AVCK	IDDTHT	LAMEMP	CKHI
lc1|Glyma.07G134600_158-202	AVCM	ENFEINC	DAREMP	CGHV
lc1|Glyma.18G184200_159-203	AVCM	ENFEINC	DAREMP	CGHV
lc1|Glyma.11G137300_184-228	AVCK	EAFELHA	EARELP	CKHI
lc1|Glyma.12G060700_182-226	AVCK	EAFELHA	EARELP	CKHI
lc1|Glyma.13G338400_153-197	AVCK	EAFELGA	LAREMP	CKHL
lc1|Glyma.15G036100_152-197	CAVCK	EAFELGE	LAREMP	CKHL
lc1|Glyma.10G286700_262-306	AICK	DLGVDG	LAKRLP	CGHG
lc1|Glyma.20G102400_259-303	AICK	DLGVDG	AAKRLP	CGHR

lcl|Glyma.05G017500_280-324	AVCK	DEFGVGE	GKVKLP	CSHR
lcl|Glyma.09G271200_369-413	AICK	DVLAPRT	EVNQLP	CSHL
lcl|Glyma.18G218200_373-417	AICK	DVLTPTG	EVNQLP	CSHL
lcl|Glyma.08G158300_95-136	AVCK	DQITPHA	EAKQLP	CKHL
lcl|Glyma.15G268100_109-150	AVCK	DQITLNA	QAKQLP	COHL
lcl|Glyma.08G034000_52-100	SVCM	EGFITQRNTDG	ENKRPV	CGHV
lcl|Glyma.06G272400_167-215	RKSCAICL	EDFDPSE	EVMLTP	CNHM
lcl|Glyma.12G131800_171-215	AICL	EDFEPSE	EVMLTP	CNHM
lcl|Glyma.06G274300_168-216	SKSCAICL	EDFDPSE	EVMLTP	CNHM
lcl|Glyma.17G213300_14-59	CAICL	EDFEPSE	EVMLTP	CNHT
lcl|Glyma.18G103300_98-136	AICL	EDFEPSE	EVMLTP	CNHM
lcl|Glyma.12G223700_140-184	ECAICL	EEFEVQG	LCQVFE	CKHI
lcl|Glyma.13G277600_139-186	ECAICM	EEFKVSQ	LCQVFE	CKHI
lcl|Glyma.12G151700_161-205	CAICL	EDFKKGE	ECLVFSV	CGHT
lcl|Glyma.13G211100_115-163	CPICM	EDFKNGE	LIQPFVQ	CVHE
lcl|Glyma.17G211800_21-68	CPICI	EEFKNGE	LIQPFVQ	CVHE
lcl|Glyma.10G047200_194-237	ECVICM	EEMGIGR	DVCELP	COHL
lcl|Glyma.13G135100_190-233	ECVICK	EEMGIGR	DVCELP	COHL
lcl|Glyma.08G148600_91-141	DLMCSICL	EEFLIGT	ITIRLPH	CYHI
lcl|Glyma.12G223800_101-147	CVICL	ESFITGE	SCQILP	CNHL
lcl|Glyma.09G096300_141-186	CAVCL	ESFRVGE	TLIHL	CAHR
lcl|Glyma.15G201800_154-199	CAVCL	ESFRVGE	TLIHL	CAHR
lcl|Glyma.10G259300_189-234	CSICL	ESFTDGD	ELIRLP	CGHK
lcl|Glyma.20G131600_187-232	CSICL	ESFTDGD	ELIRLP	CGHK
lcl|Glyma.17G172100_265-310	CPICL	EEFEEN	LIGKLS	CIHK
lcl|Glyma.17G172200_262-307	CPICL	EEFEEN	LIGKLS	CIHK
lcl|Glyma.03G110700_123-171	DPLCLFPLVP	EDQESGT	LPFMKLS	CFHC
lcl|Glyma.10G289100_82-127	ISICL	VEYEGED	AVSKLGR	CGHV
lcl|Glyma.20G099800_77-122	ISICL	VEYEGED	AVSKLGR	CGHV
lcl|Glyma.16G006200_74-120	CVICL	TSFEED	SVWKLHT	CRHI
lcl|Glyma.10G142800_16-53	CLLIW		GV	CNHA
lcl|Glyma.20G091400_16-53	CLLIW		GV	CNHA
lcl|Glyma.13G265400_16-53	CLLIW		GV	CNHA
lcl|Glyma.06G303600_75-104	CTVAW		GV	CNHA
lcl|Glyma.01G143600_200-252	KNICM	DEFYAEENEDDVKLLSSSSMP		CGHV
lcl|Glyma.17G108900_203-255	KNICM	DEFYAEENEDDVKLLSSSSMP		CGHV
lcl|Glyma.20G044300_97-142	CPICL	EELNINA	ESYTMP	CHHL
lcl|Glyma.20G044600_112-155	DECSICL	EGLDIN	VYTMP	CNHM
lcl|Glyma.09G257100_165-208	PICL	EYDVEN	PSNLT	CEHH
lcl|Glyma.18G235300_138-182	PICL	EYDVEN	PSNLT	CEHH
lcl|Glyma.08G016300_162-207	CPICL	EYDAEN	PKLAT	CDHH
lcl|Glyma.08G251300_174-216	VPTCL	EYTEEN	PKIVT	CSHH
lcl|Glyma.18G274000_173-215	VPTCL	EYTEEN	PKIVT	CSHH
lcl|Glyma.13G052000_177-221	PTCL	EYTKEN	PKIMT	CSHH
lcl|Glyma.19G034700_177-219	PTCL	EYTKEN	PKIMT	CSHH
lcl|Glyma.13G206800_34-78	SICL	EPFSVHD	PSTVT	CKHE
lcl|Glyma.15G005300_166-208	TPVCL	ERLDQDT	GGILTTI	CNHS
lcl|Glyma.01G019300_126-171	GICMQSVRS	GQGT	AIFTAE	CSHT
lcl|Glyma.09G203400_19-64	GICMQSARS	GQGT	AIFTAE	CSHT
lcl|Glyma.01G097900_111-159	KICTRSVKT	GEGK	AIFTAE	CSHV
lcl|Glyma.08G273400_110-158	EICMRSVKT	GEGK	AIFTAE	CSHV
lcl|Glyma.02G218200_86-131	NCICNSVKT	GQGT	AITYAE	CGHA
lcl|Glyma.14G185600_109-152	SGICNSVKT	GQGT	AITYAE	CGHA
lcl|Glyma.09G017200_92-144	AICLDPLSYH	SKGSSP	GQAIFTAQ	CSHT
lcl|Glyma.15G122900_92-144	AICLDPLSYQ	SKGSSP	GQAIFTAQ	CSHA
lcl|Glyma.07G270000_80-128	LAICLDPLSHK	SKGS	KAIFTAQ	CSHA
lcl|Glyma.01G050400_262-297		MP	TIGVLP	CCHA
lcl|Glyma.02G109200_262-297		MP	TIGVLP	CCHA
lcl|Glyma.12G235700_273-332	CGVCSKLLTEKSSWGTQ	KIIASNDLS	VVSVLI	CGHV
lcl|Glyma.13G201200_274-333	CGVCSKLLTEKSSWGTQ	KIIASNDLS	VVSVLI	CGHV
lcl|Glyma.07G049700_1718-1767	CCVNCPLTKN	SVSS	GIRIFN	CGHA
lcl|Glyma.16G018400_1710-1759	CCVNCPLTKN	SVSS	GIRIFN	CGHA
lcl|Glyma.01G228500_290-332	CIICREMT		TAKKLI	CGHL
lcl|Glyma.11G011300_290-332	CIICREMT		TAKKLI	CGHL
lcl|Glyma.04G130500_337-383	CAICREPMA		KAKRLN	CNHL
lcl|Glyma.06G316600_337-383	CAICREPMA		KAKRLN	CNHL
lcl|Glyma.14G105900_232-269	CAICRENVLN		DKMQELP	CKHT
lcl|Glyma.17G220500_232-277	CAICRENVLN		DKMQELP	CKHT
lcl|Glyma.16G032000_12-61	CSICYEPLN		PINEDLQSVS	CGHV
lcl|Glyma.03G104400_860-896	CTACT	FILDLPV	HFMCMHS	
lcl|Glyma.07G119500_861-897	CTACT	FILDLPV	HFMCMHS	
lcl|Glyma.12G116100_524-572	CVICM	TAIDLSPR	SNDCMVTP	CDHF
lcl|Glyma.12G205300_519-567	CVICM	TAIDLSPR	SNDCMVTP	CDHF
lcl|Glyma.06G290800_524-572	CVICM	TAIDLSPR	SNDCMVTP	CDHF
lcl|Glyma.13G295600_507-555	CVICM	TAIDLSPR	SNDCMVTP	CDHF
lcl|Glyma.01G195200_69-131	CPISLEP	M	QDPV	TLCT
lcl|Glyma.11G046500_134-196	CPISLEP	M	QDPV	TLCT
lcl|Glyma.03G202600_12-76	LCPIISLEI	M	KDPV	TVST
lcl|Glyma.10G262600_10-74	LCPIISLEI	M	KDPV	TVST
lcl|Glyma.19G200200_10-74	LCPIISLDI	M	KDPV	TVST
lcl|Glyma.04G212300_16-53	PIISLDL	F	EDPV	TLCT
lcl|Glyma.06G154100_14-76	RCPIISLDL	F	EDPV	TLCT
lcl|Glyma.05G192100_12-74	RCPIISLDL	L	EDPV	TLCT
lcl|Glyma.08G000400_12-74	RCPIISLDL	F	EDPV	TLCT
lcl|Glyma.05G189600_16-52	PIISLDV	M	KSPV	SLCT
lcl|Glyma.08G147200_16-52	PIISLDV	M	KSPV	SLCT
lcl|Glyma.07G106000_30-93	FRPIISLDL	M	KDPV	TLST
lcl|Glyma.15G064800_12-50	CPISLOI	M	SDPV	ILSS
lcl|Glyma.16G048700_180-229	VQPICLEYP	M	CPQI	TTC
lcl|Glyma.19G103000_221-270	VQPICLEYP	M	CPQI	TSC
lcl|Glyma.05G237500_1120-1165	PICDDLF		TSSAT	VREALP
lcl|Glyma.08G044700_1118-1163	PICDDLF		TSSAT	VREALP
lcl|Glyma.07G093700_1126-1171	PICDDLF		TSSAT	VREALP
lcl|Glyma.09G182600_1122-1167	PICDDLF		TSSAT	VREALP
lcl|Glyma.09G115100_1126-1168	CPICDFL		TSSS	VREALP
lcl|Glyma.17G096900_1156-1201	PICHEYF		TSCSP	VKALP
lcl|Glyma.14G130700_200-247	CPVCFEYLF		ESRND	VTVMP
lcl|Glyma.17G202700_200-247	CPVCFEYLF		ESRND	VTVMP
lcl|Glyma.06G074300_199-246	CPICFEYLF		ESVND	VTVLP
lcl|Glyma.06G116800_4-50	EPVCLQSF		ERDAI	PRVLS
lcl|Glyma.10G228500_5-52	CPVCLQSF		ERDAI	PRVLS
lcl|Glyma.08G241700_44-77	CPICWESFN		IVENV	PVYLWC
lcl|Glyma.04G134700_4-52	CSVCQTRYN		EEERV	PLLLQ

lcl|Glyma.11G157400_5-54	CSVCQTRYN	EEERV	PLLLQ	GH
lcl|Glyma.04G224200_401-445	MAICQ	EKMQA	PILLS	KH
lcl|Glyma.06G140600_410-454	LCAICQ	EKMQA	PILLS	KH
lcl|Glyma.18G217900_377-421	LCAICQ	EKMA	PILLR	KH
lcl|Glyma.08G354400_21-65	SFVCCVCL	DLLYK	PIVLS	GH
lcl|Glyma.18G171400_21-65	SFVCCVCL	DLLYK	PIVLS	GH
lcl|Glyma.15G237300_55-95	CPVCL	NAMYP	PIHQCS	NGH
lcl|Glyma.13G198800_100-140	CPVCL	NAMYP	PIHQCS	NGH
lcl|Glyma.04G235700_61-101	CPVCT	NSMYP	PIHQCH	NGH
lcl|Glyma.06G129000_62-102	CPVCT	NSMYP	PIHQCH	NGH
lcl|Glyma.03G257700_48-88	CPVCT	NSMYP	PIHQCH	NGH
lcl|Glyma.13G035400_631-678	KICKMAVD	GKVV	KIC	GH
lcl|Glyma.14G156600_631-678	KICKMAVD	GKVV	KIC	GH
lcl|Glyma.12G192700_673-714	GICHEPVE	DVVV	TTC	HA
lcl|Glyma.13G309700_670-711	GICHEPVE	DVVV	TTC	HA
lcl|Glyma.07G148900_159-201	ELECGICLEINS	KVVL	PNCN	HS
lcl|Glyma.18G200100_157-199	EEEGICLEMNS	MVVL	PNCN	HS
lcl|Glyma.03G060000_142-184	EEEGICMEMNS	KVVL	PNCN	HS
lcl|Glyma.07G195400_147-189	EDECGICMDMNS	KIVL	PNCN	HA
lcl|Glyma.13G180900_147-189	EDECGICMDMNS	KIVL	PNCN	HA
lcl|Glyma.13G240800_150-198	EEEGICMEMNS	KIVL	PD	CNHV
lcl|Glyma.15G072700_147-189	EEEGICMEMNS	KIVL	PD	CNHV
lcl|Glyma.18G063500_143-185	EEEGVCLLEVKA	KVVL	PNCCH	Y
lcl|Glyma.05G144300_156-204	EDECGICLEPCT	KMVL	PNCCH	HA
lcl|Glyma.08G100700_156-204	EDECGICLEPCT	KMVL	PNCCH	HA
lcl|Glyma.11G246100_158-206	EDECGICLEPCT	KMVL	PNCCH	HA
lcl|Glyma.18G011100_158-206	EDECGICLEPCT	KMVL	PNCCH	HA
lcl|Glyma.05G044700_154-201	EHECGICLEST	KMVF	PNCCH	HA
lcl|Glyma.11G246300_78-119	EEEGICMENG	KMVL	PNC	GH
lcl|Glyma.18G010900_145-192	EEEGICMENG	KMVL	PNC	GH
lcl|Glyma.02G309100_117-162	LNCSICMQLPE	RPVT	TP	CGHN
lcl|Glyma.14G003700_117-162	LNCSICMQLPE	RPVT	TP	CGHN
lcl|Glyma.12G001300_129-175	SINCSICQLPE	RPVT	SP	CGHS
lcl|Glyma.05G198100_138-187	CSICLNLWH	DVVTV	AP	CLHN
lcl|Glyma.04G165900_213-256	DFDCTLCLKLLY	EPVT	TP	CGHS
lcl|Glyma.06G196600_193-236	DFDCTLCLKLLY	EPVT	TP	CGHS
lcl|Glyma.16G063400_170-217	ELSCAICLEICF	EPST	TP	CGHS
lcl|Glyma.19G082000_171-218	ELSCAICLEICF	EPST	TP	CGHS
lcl|Glyma.12G180800_764-813	QGECPICLEVFE	DAVL	TP	CAHR
lcl|Glyma.13G320000_790-839	QGECPICLEVFE	DAVL	TP	CAHR
lcl|Glyma.20G087900_859-904	IIECSICMESPE	DPVF	TP	CAHK
lcl|Glyma.02G149800_290-333	LVICLEQEY	NAVF	VP	CGHM
lcl|Glyma.10G024100_292-330	VICLEQEY	NAVF	VP	CGHM
lcl|Glyma.03G080300_332-382	GQLCVICLMRRR	RSVF	IP	CGHL
lcl|Glyma.16G008300_327-377	GQLCVICLMRRR	RSVF	IP	CGHL
lcl|Glyma.18G149800_331-381	GQLCVICLMRRR	RSVF	IP	CGHL
lcl|Glyma.04G043900_344-393	EKLCICYDEQR	NSFF	VP	CGHC
lcl|Glyma.06G044100_357-407	EKLCICYDEQR	NSFF	VP	CGHC
lcl|Glyma.07G150500_385-433	HLCAICFDAPR	DCFF	LP	CGHC
lcl|Glyma.18G201500_386-434	RLCAICFDAPR	DCFF	LP	CGHC
lcl|Glyma.10G181100_405-450	VICLDAPA	EGAC	TP	CGHV
lcl|Glyma.20G209400_406-451	VICLDAPA	EGAC	TP	CGHV
lcl|Glyma.03G180500_289-337	QGKVICLSEPR	DTIV	LP	CRHM
lcl|Glyma.19G181100_312-356	VICWSEPR	DTIV	HP	CRHM
lcl|Glyma.10G052000_291-337	EVICLSEPR	DTIV	LP	CRHM
lcl|Glyma.13G139400_291-337	EVICLSEPR	DTIV	LP	CRHM
lcl|Glyma.13G326700_239-283	VICLSEPP	DTIV	LP	CRHM
lcl|Glyma.07G257200_279-325	EVICMTEPK	DNAV	LP	CRHM
lcl|Glyma.17G016900_219-265	EVICMTEPK	DNAV	LT	CRHM
lcl|Glyma.13G208500_314-360	EVICMTEPK	DNAV	LP	CRHM
lcl|Glyma.15G104300_316-362	EVICMTEPK	DNAV	LP	CRHM
lcl|Glyma.09G048200_866-915	KGNCCICYEMKV	DSVL	YR	CGHM
lcl|Glyma.15G155500_861-910	KGNCCICYEMKV	DSVL	YR	CGHM
lcl|Glyma.10G198600_793-842	KGTCCVCDNHI	DSLL	YR	CGHM
lcl|Glyma.20G191400_792-841	KGTCCVCDNHI	DSLL	YR	CGHM
lcl|Glyma.11G191900_808-850	CICESNI	DSLL	YR	CGHL
lcl|Glyma.12G082400_798-847	KGLCCICESNI	DSLL	YR	CGHL
lcl|Glyma.12G179300_740-789	KGLCCICESNI	NSLL	YR	CGHM
lcl|Glyma.13G321300_793-842	KGLCCICESNI	DSLL	YR	CGHM
lcl|Glyma.13G212200_825-875	ERECVMCLSEEM	SVVF	LP	CAHQ
lcl|Glyma.15G100500_827-877	ERECVMCLSAEM	SVVF	LP	CAHQ
lcl|Glyma.17G020500_819-869	ERECVMCLSEEM	SVVF	LP	CAHQ
lcl|Glyma.07G253800_821-871	EQECVMCLSEEM	SVLF	MP	CAHQ
lcl|Glyma.02G150400_776-826	EQECVMCLSEEM	SVVF	LP	CAHQ
lcl|Glyma.05G112600_659-709	NRECIIVCMKDEV	SIVF	LP	CAHQ
lcl|Glyma.17G154400_621-671	NRECIIVCMKDEV	SIVF	LP	CAHQ
lcl|Glyma.11G042600_620-669	RECIICGKDEP	SVIF	LP	CAHQ
lcl|Glyma.04G009100_1020-1065	SHVCKVCFESPT	AAIL	LP	CRHF
lcl|Glyma.06G009000_1020-1065	SHVCKVCFESPT	AAIL	LP	CRHF
lcl|Glyma.16G098500_18-63	SHVCKVCFESPT	TAIM	LP	CRHF
lcl|Glyma.07G159000_32-77	SHVCKVCFESPT	TVIL	LS	CRHF
lcl|Glyma.11G112700_1028-1064	KVCFQSST	AAIL	LP	CRHF
lcl|Glyma.12G038600_1038-1083	SHVCKVCFESST	AAIL	LP	CRHF
lcl|Glyma.05G013200_415-460	KVLCRICEFGEI	NVVL	LP	CRHR
lcl|Glyma.17G121200_415-460	KVLCRICEFGEI	NVVL	LP	CRHR
lcl|Glyma.10G204900_433-478	KILCRICEFEEQI	NVVL	LP	CRHH
lcl|Glyma.20G185600_422-467	KILCRICEFEEQI	NVVL	LP	CRHH
lcl|Glyma.01G029500_286-325	NLTCRACKTKTV	SMLL	MP	CRHL
lcl|Glyma.02G035800_286-325	NLTCRACKVKTV	SMLL	MP	CRHL
lcl|Glyma.14G083900_301-342	MMTCKACRVNEV	TMVL	LP	CKHL
lcl|Glyma.17G241100_292-333	MMTCKACRVNEV	TMVL	LP	CKHL
lcl|Glyma.08G170400_204-247	MCRNCGKEES	CVLI	LP	CRHL
lcl|Glyma.15G256500_288-331	LRCNCRKEES	CVLI	LP	CRHL
lcl|Glyma.09G019900_261-297	LKNCGLRES	VVLL	LP	CRHL
lcl|Glyma.15G126400_264-300	LKNCGVRES	VVLL	LP	CRHL
lcl|Glyma.01G203300_274-316	CRGCAKRVA	SVVV	LP	CRHL
lcl|Glyma.11G039700_281-323	CRGCAKRVA	SVVV	LP	CRHL
lcl|Glyma.05G068400_302-344	CRGCAKRVA	SVVV	LP	CRHL
lcl|Glyma.17G150900_309-344	CRGCAKRVA	SVVV	LP	CRHL
lcl|Glyma.09G282200_4713-4753	CRVLSSEV	DITI	VP	CGHV
lcl|Glyma.20G003400_4712-4751	RVLSSEV	DITI	VP	CGHV
lcl|Glyma.04G220000_1217-1265	DGLCICYACEA	NAOI	AP	CSHR
lcl|Glyma.06G145900_1217-1265	DSLCCICYACEA	DAOI	AP	CSHR

lc1 Glyma.08G358300_319-375MEL	CICFDQACTIEVRP	CGHQ
lc1 Glyma.18G176600_318-374MEL	CICFDQACTIEVRP	CGHQ
lc1 Glyma.12G063600_316-372TEL	CICFEQVCTIEVQD	CGHQ
lc1 Glyma.11G140000_316-372TEL	CICFEQVCTIEVQD	CGHQ
lc1 Glyma.13G335300_323-381SEL	CICFEQVCTIEVQN	CGHQ
lc1 Glyma.15G039100_316-374SEL	CICFEQVCTIEVQN	CGHQ
lc1 Glyma.08G315500_281-340KEL	SIICYDRVCTFVVRP	CGHE
lc1 Glyma.03G079200_225-269	CVCMVRHKGAAFIP	CGHT
lc1 Glyma.16G094800_214-258	CVCMVRHKGAAFIP	CGHT
lc1 Glyma.08G350900_306-345	CVCMVRHKAAAFIP	CGHT
lc1 Glyma.18G165000_306-353HT	CVCMVKHKAAAFIP	CGHT
lc1 Glyma.07G264100_155-203DWV	CVCMGRKKGAAFIP	CGHT
lc1 Glyma.17G009900_146-194DWV	CVCMGRKKGAAFIP	CGHT
lc1 Glyma.09G008200_144-192DSV	CVCMGRKKGAAFIP	CGHT
lc1 Glyma.15G112600_157-205DSV	CVCMGRKKGAALIP	CGHT
lc1 Glyma.04G189900_380-423NQV	PICLTDPKDMAFC	CGHQ
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lc1 Glyma.05G173500_413-456SKV	PICLTNDKDMAFC	CGHQ
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lc1 Glyma.15G219300_368-411QMA	AICLTNKKDLAFC	CGHM
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lc1 Glyma.10G155500_28-80	PICLGPFLQLSYLDK	CFHK
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lc1 Glyma.11G103800_150-191	PICMGPMVHEMSTR	CGHI
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lcl|Glyma.10G284900_291-328 SVICRVDE DGES LTVLS CKHL
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lcl|Glyma.12G057100_192-240 DERVICQMEYR RGDK RITLP CKHV
lcl|Glyma.12G237700_196-240 VICQMTYR RGDQ QMKLP CSHV
lcl|Glyma.13G203300_196-240 VICQMTYR RGDQ QMKLP CSHV
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lcl|Glyma.14G147100_225-268 PICMDEFKV GGDK ACQLP CHT
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lcl|Glyma.01G238200_728-770 GICGD GG DLICCD G CPST
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lcl|Glyma.11G171200_781-832 GICGQ RKIDG DEVGQ LLPCI Q CEHK
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lcl|Glyma.02G058300_166-214 GSGGGNYNKDE FWIGCDI CEWW
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lcl|Glyma.11G190000_1281-1329 CHLRKPYMSDL TYICCT CQNW
lcl|Glyma.12G084300_1287-1335 CHLRKPYMSDL TYICCT CRNW

Human_c-Cbl

β8

α14

▶ 00...0000...0.0
20 30

T...TT

Human_c-Cbl

consensus

lcl Glyma.09G103000_21-70	MCTS	CLTSW	Q.ESEGGQ	CP	FC
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lcl Glyma.06G069600_30-98	VCRA	CYEYERKD		GNQS	QCKTRY
lcl Glyma.13G202500_20-69	VCRP	CYEYERKD		GNQS	QCKTRY
lcl Glyma.02G080900_38-87	VCRP	CYEYERKD		GNQS	QCKTRY
lcl Glyma.16G165900_30-96	VCRP	CYEYERRE		GNQV	QCKTRY
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lcl Glyma.03G180200_231-280	LALAHQE	CAVKWFSIKGN		RTCD	VCK
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lcl Glyma.06G064900_158-219	PGI AH VH	CALAWFKLKG		MLCE	IC
lcl Glyma.05G159600_181-243	LGIVHSH	CAEAWFKLKG		RLCE	IC
lcl Glyma.04G084500_138-184	IHEE	CLMKWRTKGR		SASCV	ICR
lcl Glyma.06G086100_152-198	IHEE	CLIKWRTKGR		SASCV	ICR
lcl Glyma.02G232900_1829-1880	FHSA	CLYKWFSTSHK		S.S	CP
lcl Glyma.01G095300_99-145	FHQD	CIDLWLR		SHKT	CP
lcl Glyma.08G270800_99-145	FHQD	CIDLWLR		SHKT	CP
lcl Glyma.01G017200_110-156	FHQE	CIDLWLR		SHKT	CP
lcl Glyma.02G210700_138-184	FHPD	CIDAWLV		NHST	CP
lcl Glyma.14G178400_137-183	FHSD	CIDAWLA		NHST	CP
lcl Glyma.04G098100_128-174	FHSD	CIDAWLA		NHST	CP
lcl Glyma.06G099800_131-177	FHSE	CIDAWLA		NHST	CP
lcl Glyma.10G156500_116-162	FHPE	CIDEWLA		SHTT	CP
lcl Glyma.20G231900_117-163	FHPE	CIDEWLA		SHTT	CP
lcl Glyma.19G236800_118-164	FHPE	CIDEWLG		SHTT	CP
lcl Glyma.03G239900_110-156	FHPE	CIDEWLS		SHTT	CP
lcl Glyma.09G140700_126-172	FHPH	CIDSWLA		CHVT	CP
lcl Glyma.16G194600_116-162	FHPH	CIDSWLT		SHVT	CP
lcl Glyma.09G140800_108-154	FHAH	CIDAWLA		AHVT	CP
lcl Glyma.11G242800_110-156	FHQH	CIDTWLP		SRMT	CP
lcl Glyma.14G037000_80-126	FHQH	CIDAWLP		SHMN	CP
lcl Glyma.06G118400_62-106	FQQH	CIDVWSS		SHIN	CP
lcl Glyma.01G017300_141-187	FHLP	CIDTWLK		SHSS	CP
lcl Glyma.09G205600_131-177	FHLP	CIDTWLK		SHSS	CP
lcl Glyma.01G095600_140-186	FHAP	CIDTWLK		SHSS	CP
lcl Glyma.08G271100_141-187	FHAP	CIDTWLK		SHSS	CP
lcl Glyma.04G128100_143-189	FHLP	CIDTWLK		SHAT	CP
lcl Glyma.06G310600_135-181	FHLP	CIDTWLK		SHAT	CP
lcl Glyma.02G210400_152-198	FHVP	CIDTWLR		SHTN	CP
lcl Glyma.14G177900_153-199	FHVP	CIDTWLR		SHTN	CP
lcl Glyma.08G070100_155-204	FHLP	CIDTWLR		SHTN	CP
lcl Glyma.13G042300_156-201	FHLP	CIDTWLR		SHTN	CP
lcl Glyma.08G177000_180-226	FHLP	CIDTWLR		SHTN	CP
lcl Glyma.15G056000_166-212	FHLP	CIDTWLR		SHTN	CP
lcl Glyma.05G175400_149-200	FHIP	CIDTWLR		SHKN	CP
lcl Glyma.18G014500_194-240	FHIS	CIDTWLR		SHKS	CP
lcl Glyma.18G014600_153-202	FHIP	CIDTWLR		SHKS	CP
lcl Glyma.11G242500_156-205	FHVP	CVDTWLR		SHKT	CP
lcl Glyma.11G122400_135-179	FHVD	CIDAWLR		SHAN	CP
lcl Glyma.12G047300_133-176	FHVD	CIDAWLR		SHAN	CP

lc1|Glyma.01G032200_147-191	.FHIE.....	.CIDTWLL.....	.SNSTCP	.LCR
lc1|Glyma.02G033200_149-193	.FHIE.....	.CIDTWLL.....	.SNSTCP	.LCR
lc1|Glyma.13G071600_172-216	.FHIS.....	.CIDTWLL.....	.SNSTCP	.LCR
lc1|Glyma.19G011200_168-212	.FHIS.....	.CIDTWLL.....	.SNSTCP	.LCR
lc1|Glyma.08G289200_148-194	.FHID.....	.CIDTWLL.....	.SNSTCP	.LCR
lc1|Glyma.18G135300_149-195	.FHID.....	.CIDTWLL.....	.SNSTCP	.LCR
lc1|Glyma.05G035800_139-185	.FHMN.....	.CLDMWLL.....	.SNSTCP	.LCR
lc1|Glyma.17G091600_134-180	.FHMN.....	.CLDTWLL.....	.SNSTCP	.LCR
lc1|Glyma.13G092000_129-175	.FHME.....	.CIDTWLL.....	.SHSTCP	.LCR
lc1|Glyma.17G068300_125-171	.FHME.....	.CIDTWLL.....	.SHSTCP	.LCR
lc1|Glyma.03G103800_137-183	.FHAЕ.....	.CIDTWLQ.....	.SNLSCP	.LCR
lc1|Glyma.07G120300_138-184	.FHAЕ.....	.CIDTWLQ.....	.SNLSCP	.LCR
lc1|Glyma.15G183300_121-167	.FHAЕ.....	.CIDTWLR.....	.SKLTCP	.LCR
lc1|Glyma.01G146500_110-156	.FHID.....	.CIDHWLE.....	.KHSSCP	.LCR
lc1|Glyma.09G194100_115-161	.FHID.....	.CIDHWLE.....	.KHSTCP	.LCR
lc1|Glyma.04G083400_113-140	.....	.....	.NHSTCP	.LCR
lc1|Glyma.06G084800_126-176	.FHMN.....	.CIDKWFЕ.....	.SHSTCP	.LCR
lc1|Glyma.14G146700_132-182	.FHMN.....	.CIDKWLE.....	.SHSSCP	.LCR
lc1|Glyma.02G106400_97-139	.FHVE.....	.CVDSWLD.....	.VHSMCP	.LCR
lc1|Glyma.04G091400_117-163	.FHVE.....	.CVDTWLD.....	.AHSTCP	.LCR
lc1|Glyma.03G215500_93-139	.FHAH.....	.CIDTWFG.....	.SHSKCP	.LCR
lc1|Glyma.19G212000_90-136	.FHAH.....	.CIDTWIG.....	.SHSTCP	.LCR
lc1|Glyma.02G016800_86-132	.FHAH.....	.CVDIWFH.....	.SHSNCP	.LCR
lc1|Glyma.07G046400_108-154	.FHVD.....	.CIDMWFH.....	.SHSTCP	.LCR
lc1|Glyma.16G014600_107-153	.FHVD.....	.CIDMWFH.....	.SHSTCP	.LCR
lc1|Glyma.03G263000_99-148	.FHVA.....	.CIDMWFQ.....	.SHSTCP	.LCR
lc1|Glyma.07G245400_93-139	.FHTE.....	.CIDVWFQ.....	.SHATCP	.LCR
lc1|Glyma.17G028400_95-141	.FHTE.....	.CIDMWFQ.....	.SHATCP	.LCR
lc1|Glyma.09G042400_118-164	.FHIE.....	.CIDMWFH.....	.SHDTCP	.LCR
lc1|Glyma.13G332800_88-134	.FHAS.....	.CIDTWFR.....	.SHSNCP	.LCR
lc1|Glyma.06G284600_119-165	.FHVD.....	.CIDTWLD.....	.SHSTCP	.LCR
lc1|Glyma.12G121400_124-171	.FHVD.....	.CIDKWLG.....	.SHSTCP	.LCR
lc1|Glyma.12G208600_102-147	.FHVS.....	.CIDTWLS.....	.SHSTCP	.LCR
lc1|Glyma.13G292600_94-142	.FHVG.....	.CIDTWLA.....	.SHSTCP	.LCR
lc1|Glyma.09G214600_99-144	.FHVA.....	.CIDMWLS.....	.SHSSCP	.LCR
lc1|Glyma.16G075300_86-130	.FHVA.....	.CIDAWLY.....	.SHSNCP	.LCR
lc1|Glyma.13G108500_112-158	.FHAP.....	.CIDMWLY.....	.SHFDCP	.LCR
lc1|Glyma.17G050900_108-154	.FHAP.....	.CIDMWLY.....	.SHLDCP	.LCR
lc1|Glyma.18G176200_157-203	.FHAS.....	.CIDWLS.....	.NHSNCP	.LCR
lc1|Glyma.02G228800_114-163	.FHME.....	.CIDMWLS.....	.SHCNCP	.LCR
lc1|Glyma.01G157400_104-150	.FHVP.....	.CIDTWLG.....	.SHSSCP	.LCR
lc1|Glyma.11G087600_104-150	.FHVP.....	.CIDTWLG.....	.SHSSCP	.LCR
lc1|Glyma.04G015200_96-142	.FHVS.....	.CIDAWLR.....	.SHSSCP	.LCR
lc1|Glyma.06G015200_96-142	.FHVS.....	.CIDAWLR.....	.SHSSCP	.LCR
lc1|Glyma.09G196700_100-146	.FHVA.....	.CVDTWLA.....	.SHSSCP	.LCR
lc1|Glyma.16G112200_99-145	.FHVA.....	.CVDTWLA.....	.SHSSCP	.LCR
lc1|Glyma.04G215600_139-185	.FHVR.....	.CIDKWLS.....	.SHSSCP	.LCR
lc1|Glyma.06G150400_141-187	.FHIR.....	.CIDKWLS.....	.SHSSCP	.LCR
lc1|Glyma.05G188900_144-190	.FHVC.....	.CIDKWLS.....	.SHSSCP	.LCR
lc1|Glyma.08G146600_143-189	.FHVR.....	.CIDKWLS.....	.SHSSCP	.LCR
lc1|Glyma.09G275300_113-159	.FHVR.....	.CIDTWLL.....	.SHSSCP	.LCR
lc1|Glyma.18G214200_108-154	.FHVR.....	.CIDTWLL.....	.SHSSCP	.LCR
lc1|Glyma.07G173600_79-113	.FHVR.....	.CINMWLL.....	.SHSSCP	.LCR
lc1|Glyma.06G143100_111-157	.FHVR.....	.CIDTWLL.....	.SHSSCP	.LCR
lc1|Glyma.08G088100_109-152	.FHVV.....	.CIDKWLL.....	.SHSSCP	.LCR
lc1|Glyma.15G157400_108-152	.FHVD.....	.CIDKWLL.....	.SHSSCP	.LCR
lc1|Glyma.04G182100_194-239	.FHVE.....	.CIDEWLR.....	.LNVNCP	.LCR
lc1|Glyma.06G183300_233-278	.FHVE.....	.CIDEWLR.....	.LNVNCP	.LCR
lc1|Glyma.05G037000_234-279	.FHVE.....	.CIDEWLR.....	.LNVKCP	.LCR
lc1|Glyma.17G090200_234-279	.FHVE.....	.CIDEWLR.....	.LNVKCP	.LCR
lc1|Glyma.11G191800_129-174	.FHPH.....	.CIDTWLD.....	.KQVTCP	.LCR
lc1|Glyma.01G151700_511-557	.FHTT.....	.CVDKWLKE.....	.IHRVCP	.LCR
lc1|Glyma.09G216900_511-557	.FHTT.....	.CVDKWLKE.....	.IHRVCP	.LCR
lc1|Glyma.16G076000_519-565	.FHRT.....	.CIDKWLKE.....	.IHRVCP	.LCR
lc1|Glyma.16G107700_522-568	.FHRT.....	.CIDKWLKE.....	.IHRVCP	.LCR
lc1|Glyma.13G165500_478-524	.YHMS.....	.CVDKWLKE.....	.IHGVCB	.LCR
lc1|Glyma.17G105500_479-525	.YHMS.....	.CVDKWLKE.....	.IHGVCB	.LCR
lc1|Glyma.01G217300_329-374	.FHCV.....	.CVDKWLY.....	.INATCP	.LCR
lc1|Glyma.11G026000_332-377	.FHCV.....	.CVDKWLY.....	.INATCP	.LCR
lc1|Glyma.05G048800_325-370	.FHCA.....	.CVDKWLH.....	.INATCP	.LCR
lc1|Glyma.17G130700_323-368	.FHCA.....	.CVDKWLH.....	.INATCP	.LCR
lc1|Glyma.09G265600_314-359	.FHCT.....	.CIDKWLL.....	.INATCP	.LCR
lc1|Glyma.18G225500_320-365	.FHCT.....	.CIDKWLL.....	.INATCP	.LCR
lc1|Glyma.02G085200_305-350	.FHSS.....	.CIVKWLK.....	.MNAFCP	.LCR
lc1|Glyma.07G170200_304-349	.FHSS.....	.CIVKWLK.....	.MNAFCP	.LCR
lc1|Glyma.05G238900_292-337	.FHST.....	.CIVKWLK.....	.MNAFCP	.LCR
lc1|Glyma.08G046000_293-338	.FHST.....	.CIVKWLK.....	.MNAFCP	.LCR
lc1|Glyma.03G120200_273-318	.FHCE.....	.CIGRWLQ.....	.TKATCP	.LCR
lc1|Glyma.19G124800_275-320	.FHCG.....	.CISRWLR.....	.TKATCP	.LCR
lc1|Glyma.02G302400_289-335	.FHLK.....	.CVDQWLK.....	.IISCCP	.LCR
lc1|Glyma.14G011800_289-335	.FHLK.....	.CVDQWLK.....	.IISCCP	.LCR
lc1|Glyma.08G332300_279-325	.FHLK.....	.CVDQWLR.....	.IISCCP	.LCR
lc1|Glyma.18G074600_278-324	.FHLK.....	.CVDQWLR.....	.IISCCP	.LCR
lc1|Glyma.13G361000_365-409	.FHVE.....	.CIDKWLK.....	.INATCP	.LCR
lc1|Glyma.15G012900_392-436	.FHVM.....	.CVDKWLK.....	.INATCP	.LCR
lc1|Glyma.14G129100_343-387	.FHKD.....	.CVDKWLK.....	.INALCP	.LCR
lc1|Glyma.17G203800_375-419	.FHKD.....	.CVDKWLK.....	.INALCP	.LCR
lc1|Glyma.01G162900_187-232	.FHLP.....	.CIDKWLFР.....	.HGSB	.LCR
lc1|Glyma.11G080500_187-232	.FHLP.....	.CIDKWLFР.....	.HGSB	.LCR
lc1|Glyma.02G044300_186-231	.FHLP.....	.CIDKWLIK.....	.HGSB	.LCR
lc1|Glyma.04G143800_84-127	.FHLV.....	.CIDKWLVQ.....	.QGSB	.MCK
lc1|Glyma.08G316400_182-225	.FHSV.....	.CIDKWLVQ.....	.QGSB	.MCR
lc1|Glyma.18G096600_201-244	.FHLV.....	.CIDKWLVQ.....	.RRSБ	.MCR
lc1|Glyma.02G291200_187-233	.FHLE.....	.CIDKWLVQ.....	.QGSB	.MCR
lc1|Glyma.05G025200_170-216	.FHLI.....	.CVDKWLVK.....	.NDSB	.VCR
lc1|Glyma.17G101800_167-213	.FHLI.....	.CVDKWLVK.....	.NDSB	.VCR
lc1|Glyma.10G124600_688-735	.FHKD.....	.CIDPWLRQ.....	.KTSB	.VCK
lc1|Glyma.20G076700_718-765	.FHKD.....	.CIDPWLRQ.....	.KASB	.VCK
lc1|Glyma.10G217500_232-277	.FHAA.....	.CIVDSWLT.....	.WRTFCP	.VCK
lc1|Glyma.20G174500_247-292	.FHAA.....	.CIVDSWLT.....	.WRTFCP	.VCK
lc1|Glyma.11G137400_208-259	.FHAN.....	.CIDPWLRQ.....	.QGTB	.VCK
lc1|Glyma.12G060800_236-287	.FHAN.....	.CIDPWLRQ.....	.QGTB	.VCK
lc1|Glyma.11G220200_212-254	.FHAN.....	.CIDPWLRQ.....	.QGTB	.VCK

lc1|Glyma.18G037200_212-254	.FHAN.....	.CIDPWLRQ.....	.QGT	CP	.VCK	
lc1|Glyma.02G194400_103-147	.FHLK.....	.CIDPWLR.....	.LHPT	CP	.LCRTS	
lc1|Glyma.10G083100_103-147	.FHLK.....	.CIDPWLR.....	.LHPT	CP	.LCRTS	
lc1|Glyma.03G203400_104-149	.FHLK.....	.CIDPWLR.....	.LHPT	CP	.LCRTS	
lc1|Glyma.10G121100_107-150	.FHRE.....	.CIDRWLQ.....	.VNLS	CP	.MCR	
lc1|Glyma.10G121500_113-160	.FHRD.....	.CIDMWLQ.....	.LNLT	CP	.LCRTS	
lc1|Glyma.03G017500_84-127	.FHLS.....	.CIDMWLR.....	.KQST	CP	.VCR	
lc1|Glyma.07G078800_84-127	.FHLS.....	.CIDMWLR.....	.KQST	CP	.VCR	
lc1|Glyma.09G264300_89-135	.FHLS.....	.CIDIWLRL.....	.KQST	CP	.VCR	
lc1|Glyma.18G227700_89-135	.FHLS.....	.CIDIWLRL.....	.KQST	CP	.VCR	
lc1|Glyma.10G202500_86-132	.FHVT.....	.CIDLWLQ.....	.QNST	CP	.VCR	
lc1|Glyma.20G187900_86-132	.FHVT.....	.CIDLWLQ.....	.QNST	CP	.VCR	
lc1|Glyma.09G001600_110-156	.FHMS.....	.CIDLWLA.....	.THTT	CP	.LCRFSL	
lc1|Glyma.05G217000_334-378	.FHAD.....	.CIDEWLR.....	.LNAT	CP	.LCR	
lc1|Glyma.08G022900_332-375	.YHAA.....	.CIDHWLK.....	.LNAT	CP	.LCR	
lc1|Glyma.07G056200_314-357	.FHAD.....	.CIDEWLR.....	.INTT	CP	.VCR	
lc1|Glyma.16G025100_320-363	.FHAD.....	.CIDEWLR.....	.INTT	CP	.VCR	
lc1|Glyma.19G255700_319-362	.FHAE.....	.CIDEWLR.....	.MNST	CP	.VCR	
lc1|Glyma.06G127300_326-371	.FHAQ.....	.CIDEWLP.....	.LNAS	CP	.ICRTS	
lc1|Glyma.07G062800_119-162	.FHLC.....	.CLDPWLK.....	.LNGS	CP	.VCR	
lc1|Glyma.16G030900_115-158	.FHLC.....	.CLDPWLK.....	.LNGS	CP	.VCR	
lc1|Glyma.09G253500_112-155	.FHLC.....	.CLDSWLK.....	.LNGS	CP	.VCR	
lc1|Glyma.18G239400_89-132	.FHLC.....	.CLDSWLK.....	.LNGS	CP	.VCR	
lc1|Glyma.09G253400_107-153	.FHKD.....	.CVDAWLK.....	.VKTS	CP	.ICRNSL	
lc1|Glyma.02G264800_105-151	.FHCE.....	.CVDKWL.....	.NHSN	CP	.LCRASL	
lc1|Glyma.14G058000_100-146	.FHCE.....	.CVDKWL.....	.NHSN	CP	.LCRASL	
lc1|Glyma.11G231400_107-153	.FHCD.....	.CVDKWL.....	.HHSS	CP	.LCRASL	
lc1|Glyma.18G025700_107-153	.FHCD.....	.CVDKWL.....	.HHSS	CP	.LCRASL	
lc1|Glyma.11G169500_92-138	.FHSE.....	.CLGMWLS.....	.AHPS	CP	.LCRASL	
lc1|Glyma.18G060400_108-154	.FHSE.....	.CLGMWLS.....	.GHPS	CP	.LCRASL	
lc1|Glyma.01G093800_57-96	.FHKG.....	.CLDRWL.....	.VSR		.MPR	
lc1|Glyma.04G153400_57-104	.FHKG.....	.CLDRWVGF.....	.NA	.T	CP	.LCRGS
lc1|Glyma.04G153500_74-120	.FHRD.....	.CLNTWVGF.....	.NA	.T	CP	.LCR
lc1|Glyma.13G115900_83-134	.FHRE.....	.CIERWLEHE.....	.HENHIPT	CP	.LCRAPL	
lc1|Glyma.17G043900_85-135	.FHRE.....	.CIERWLEHE.....	.HENHSAT	CP	.ICRAP	
lc1|Glyma.01G221300_81-127	.FHRG.....	.CLDRWVGF.....	.QR	.T	CP	.LCRTPF
lc1|Glyma.11G022400_87-133	.FHRG.....	.CLDRWVGF.....	.QR	.T	CP	.LCRTPF
lc1|Glyma.05G210000_86-133	.FHRG.....	.CLDRWVGF.....	.QR	.T	CP	.LCRTPF
lc1|Glyma.08G016700_85-132	.FHRG.....	.CLDRWVGF.....	.QR	.T	CP	.LCRMPF
lc1|Glyma.17G159400_72-117	.FHKR.....	.CLDHWVGF.....	.MR	.M	CT	.LCR
lc1|Glyma.02G223600_99-145	.FHKV.....	.CLEKWL.....	.NI	.T	CP	.LCRTP
lc1|Glyma.14G190300_98-144	.FHKV.....	.CLEKWL.....	.NI	.T	CP	.LCRTP
lc1|Glyma.13G009100_96-142	.FHKV.....	.CMEKWL.....	.NI	.T	CP	.LCRTSL
lc1|Glyma.05G182000_68-114	.FHKD.....	.CLDQWL.....	.QYC	.AT	CP	.LCRNKV
lc1|Glyma.08G139700_68-114	.FHKD.....	.CLDQWL.....	.QYC	.AT	CP	.LCRNKV
lc1|Glyma.11G236600_73-119	.FHRD.....	.CLDKWL.....	.QYW	.AT	CP	.LCRQV
lc1|Glyma.18G020400_70-116	.FHRD.....	.CLDKWL.....	.QYW	.AT	CP	.LCRQV
lc1|Glyma.05G218700_107-152	.FHIS.....	.CISNWL.....	.SN	.ST	CP	.LCRCSI
lc1|Glyma.08G024800_108-153	.FHIS.....	.CISNWL.....	.SN	.ST	CP	.LCRCSI
lc1|Glyma.13G002800_104-153	.FHLE.....	.CIHHWL.....	.SN	.ST	CP	.LCRCSI
lc1|Glyma.20G066300_104-153	.FHFE.....	.CIHHWL.....	.SN	.ST	CP	.LCRCSI
lc1|Glyma.10G007200_117-163	.FHID.....	.CIDVWL.....	.NN	.AH	CP	.LCRRTV
lc1|Glyma.20G088900_139-185	.FHID.....	.CIDVWL.....	.NN	.AY	CP	.LCRRTV
lc1|Glyma.10G187100_136-182	.FHID.....	.CIDVWL.....	.SN	.AN	CP	.LCRCSI
lc1|Glyma.20G203400_135-181	.FHID.....	.CIDVWL.....	.SN	.AN	CP	.LCRCSI
lc1|Glyma.19G163600_128-173	.FHLH.....	.CIDIWL.....	.TN	.AN	CP	.LCRCSI
lc1|Glyma.11G243400_93-139	.FHRG.....	.CLDKWVGF.....	.NKH	.T	CP	.LCRS
lc1|Glyma.18G013800_88-132	.FHRG.....	.CLDKWVGF.....	.NKH	.T	CP	.LCRS
lc1|Glyma.13G232800_104-150	.FHVD.....	.CVDKWF.....	.NSN	.T	CP	.ICRTVV
lc1|Glyma.13G232800_105-147	.FHVD.....	.CVDKWF.....	.NSN	.T	CP	.ICR
lc1|Glyma.15G079900_101-151	.FHAD.....	.CVDKWF.....	.NSN	.T	CP	.ICRTVV
lc1|Glyma.04G021200_74-120	.FHVH.....	.CADTWLS.....	.KHPL	CP	.VCRITKL	
lc1|Glyma.06G021400_73-119	.FHVQ.....	.CADTWLS.....	.KHPI	CP	.VCRITKL	
lc1|Glyma.14G221800_70-116	.FHLE.....	.CADTWLS.....	.KHPL	CP	.LCRAKL	
lc1|Glyma.17G260700_70-116	.FHLE.....	.CADTWLS.....	.EHP	CP	.LCRAKL	
lc1|Glyma.04G181300_83-127	.FHVQ.....	.CIDSWL.....	.QTPV	CP	.ICRT	
lc1|Glyma.06G183600_83-127	.FHVQ.....	.CIDSWL.....	.QTPV	CP	.ICRT	
lc1|Glyma.13G170300_69-114	.FHAQ.....	.CVDTWLL.....	.KTPI	CP	.ICRCN	
lc1|Glyma.19G010400_71-116	.FHAQ.....	.CVDWLL.....	.KTPI	CP	.TCRCN	
lc1|Glyma.13G092100_125-170	.FHRT.....	.CVDTWLL.....	.KVAA	CP	.TCRTPV	
lc1|Glyma.17G068200_100-145	.FHRR.....	.CVDTWLL.....	.KVAA	CP	.TCRTPV	
lc1|Glyma.10G244900_121-165	.YHSA.....	.CLRLWLA.....	.SHPH	CP	.YCRTPV	
lc1|Glyma.20G149700_120-164	.YHSA.....	.CLRLWLA.....	.AHPH	CP	.YCRTPV	
lc1|Glyma.01G048700_113-166	.FHVN.....	.CIEKWLGM.....	.HGS	CP	.VCRYEMPVEE	
lc1|Glyma.02G108300_190-234	.FHGN.....	.CIEKWLGM.....	.HGS	CP	.VCRYE	
lc1|Glyma.02G071200_226-269	.FHGD.....	.CIVSWLKL.....	.HGS	CP	.VCR	
lc1|Glyma.16G152400_225-267	.FHGD.....	.CIVSWLKL.....	.HGS	CP	.VCR	
lc1|Glyma.18G000200_236-278	.FHSG.....	.CILPWLEL.....	.HSS	CP	.VCR	
lc1|Glyma.02G161600_186-230	.YHSD.....	.CIVPWLVQ.....	.HNS	CP	.VCRQEL	
lc1|Glyma.10G101400_186-230	.YHSD.....	.CIVPWLVQ.....	.HNS	CP	.VCRQEL	
lc1|Glyma.02G276700_252-296	.YHSD.....	.CIVPWLVQ.....	.HNS	CP	.VCRVEL	
lc1|Glyma.14G039000_202-246	.YHSD.....	.CIVPWLVQ.....	.HNS	CP	.VCRVEL	
lc1|Glyma.13G072800_206-250	.YHSD.....	.CIVPWLVQ.....	.HNS	CP	.VCRVEL	
lc1|Glyma.13G072900_126-169	.YHSD.....	.CIVPWLVQ.....	.HNS	CP	.VCR	
lc1|Glyma.04G251600_220-265	.YHSD.....	.CIVPWLVQ.....	.HNS	CP	.VCRHEV	
lc1|Glyma.08G185400_202-246	.YHSD.....	.CIVPWLVQ.....	.HNS	CP	.VCRHEV	
lc1|Glyma.15G047300_199-243	.YHSD.....	.CIVPWLVQ.....	.HNS	CP	.VCRHEV	
lc1|Glyma.09G165200_203-248	.YHAD.....	.CILPWLEL.....	.HNS	CP	.VCRHEV	
lc1|Glyma.16G213500_202-247	.YHAD.....	.CILPWLEL.....	.HNS	CP	.VCRHEV	
lc1|Glyma.10G285300_179-224	.YHGD.....	.CILPWLR.....	.HNS	CP	.VCRHEV	
lc1|Glyma.20G103700_178-223	.YHGD.....	.CILPWLR.....	.HNS	CP	.VCRHEV	
lc1|Glyma.02G249100_188-232	.YHAE.....	.CILPWLA.....	.KNS	CP	.VCRHEL	
lc1|Glyma.14G067300_187-231	.YHAE.....	.CILPWLA.....	.KNS	CP	.VCRHEL	
lc1|Glyma.11G220400_185-229	.YHPE.....	.CILPWLA.....	.HNS	CP	.VCRHEL	
lc1|Glyma.18G037000_174-209	.YHPE.....	.CILPWLA.....	.HNS	CP	.VCR	
lc1|Glyma.07G134600_158-202	.YHSE.....	.CIVPWSV.....	.RNS	CP	.VCRHEV	
lc1|Glyma.18G184200_159-203	.YHSE.....	.CIVPWSV.....	.RNS	CP	.VCRHEV	
lc1|Glyma.11G137300_184-228	.YHSD.....	.CILPWLSM.....	.RNS	CP	.VCRHEL	
lc1|Glyma.12G060700_182-226	.YHSD.....	.CILPWLSM.....	.RNS	CP	.VCRHEL	
lc1|Glyma.13G338400_153-197	.YHSD.....	.CILPWLSM.....	.RNS	CP	.VCRHEL	
lc1|Glyma.15G036100_152-197	.YHSD.....	.CILPWLSM.....	.RNS	CP	.VCRHEL	
lc1|Glyma.10G286700_262-306	.YHGD.....	.CIVPWLS.....	.RNS	CP	.VCRYEL	
lc1|Glyma.20G102400_259-303	.YHGD.....	.CIVPWLS.....	.RNS	CP	.VCRYEL	

lcl|Glyma.05G017500_280-324	.YHED.....	CI	VPWLG I	.....	RNT	CP	..	V	CR	YEF
lcl|Glyma.09G271200_369-413	.YHIN.....	CI	LPWLSA	.....	RNS	CP	..	L	CR	YEL
lcl|Glyma.18G218200_373-417	.YHNN.....	CI	LPWLSA	.....	RNS	CP	..	L	CR	YEL
lcl|Glyma.08G158300_95-136	.YHSD.....	CI	TPWLEL	.....	HAS	CP	..	L	CR	..
lcl|Glyma.15G268100_109-150	.YHSD.....	CI	TPWLEL	.....	NSS	CP	..	L	CR	..
lcl|Glyma.08G034000_52-100	.YHSN.....	CI	TLWLEH	.....	CNS	CP	..	L	CR	CHI
lcl|Glyma.06G272400_167-215	.FHED.....	CI	VPWLTS	.....	KGO	CP	..	V	CR	FVI
lcl|Glyma.12G131800_171-215	.FHED.....	CI	VPWLTS	.....	KGO	CP	..	V	CR	FVI
lcl|Glyma.06G274300_168-216	.FHED.....	CI	VPWLTS	.....	KGO	CP	..	V	CR	FVI
lcl|Glyma.17G213300_14-59	.FHED.....	CI	VPWLTS	.....	KGO	CP	..	V	CR	FLI
lcl|Glyma.18G103300_98-136	.FHKD.....	CI	VPWLK	.....	MGN	OS	..	..	..	..
lcl|Glyma.12G223700_140-184	.FHSD.....	CI	DHWLQK	.....	KLT	CP	..	I	CR	..
lcl|Glyma.13G277600_139-186	.FHSD.....	CI	DHWLQK	.....	KLT	CP	..	I	CR	SCI
lcl|Glyma.12G151700_161-205	.FHCD.....	CI	KHWLEE	.....	KPS	CP	..	I	CR	H
lcl|Glyma.13G211100_115-163	.FHLS.....	CV	NSWLLGG	.....	G	..	..	V	CR	KDL
lcl|Glyma.17G211800_21-68	.FHSS.....	CI	NSWLLRG	.....	KTT	CP	..	V	CR	REL
lcl|Glyma.10G047200_194-237	.FHHM.....	CI	LPWLKG	.....	RNT	CP	..	C	CR	..
lcl|Glyma.13G135100_190-233	.FHHM.....	CI	LPWLKG	.....	RNT	CP	..	C	CR	..
lcl|Glyma.08G148600_91-141	.FHEH.....	CI	TRWLN M	.....	NNT	CP	..	L	CR	RTI
lcl|Glyma.12G223800_101-147	.FHSY.....	CI	EHWLKD	.....	NAT	CP	..	V	CR	NCL
lcl|Glyma.09G096300_141-186	.FHDR.....	CL	KPWLEN	.....	NSY	CP	..	C	CR	TTI
lcl|Glyma.15G201800_154-199	.FHDR.....	CL	KPWLEN	.....	NSH	CP	..	C	CR	TTI
lcl|Glyma.10G259300_189-234	.FHSV.....	CL	DPWIRC	.....	CGD	CP	..	Y	CR	RCI
lcl|Glyma.20G131600_187-232	.FHSV.....	CL	DPWIRC	.....	CGD	CP	..	Y	CR	RSI
lcl|Glyma.17G172100_265-310	.YHRH.....	CI	RQWLLC	.....	RNF	CP	..	V	CR	RV
lcl|Glyma.17G172200_262-307	.YHRH.....	CI	RQWLLC	.....	RNF	CP	..	V	CR	RV
lcl|Glyma.03G110700_123-171	.FHSE.....	CI	IRW	.....	WKWLQ	..	..	N	SN	K
lcl|Glyma.10G289100_82-127	.FHLN.....	CI	EQWILRN	.....	QFS	CP	..	L	CR	..
lcl|Glyma.20G099800_77-122	.FHLN.....	CI	DQWILRN	.....	QFS	CP	..	L	CR	..
lcl|Glyma.16G006200_74-120	.FHST.....	CI	YKWLAS	.....	HFG	CP	..	L	CR	TOI
lcl|Glyma.10G142800_16-53	.FHLH.....	CI	LKWVNSQ	.....	T	..	..	M	CR	REW
lcl|Glyma.20G091400_16-53	.FHLH.....	CI	LKWVNSQ	.....	T	..	..	M	CR	REW
lcl|Glyma.13G265400_16-53	.FHLH.....	CI	LKWVNSQ	.....	T	..	..	M	CR	REW
lcl|Glyma.06G303600_75-104	.FHFH.....	CI	SRWLKTR	.....	QV	CP	..	L	..	..
lcl|Glyma.01G143600_200-252	.FHHQ.....	CI	VKWLQT	.....	SHT	CP	..	L	CR	..
lcl|Glyma.17G108900_203-255	.FHHQ.....	CI	VKWLQT	.....	SHT	CP	..	L	CR	..
lcl|Glyma.20G044300_97-142	.FHLK.....	CI	VSWLQT	.....	SHV	CP	..	L	CR	YPL
lcl|Glyma.20G044600_112-155	.FHHQ.....	CI	VTWLQN	.....	SHM	CP	..	L	CR	..
lcl|Glyma.09G257100_165-208	.FHLS.....	CI	LEWME	.....	RSDS	CP	..	I	CD	QE
lcl|Glyma.18G235300_138-182	.FHLS.....	CI	LEWME	.....	RSDS	CP	..	I	CD	QKL
lcl|Glyma.08G016300_162-207	.FHLA.....	CI	LEWME	.....	RSET	CP	..	V	CD	DDL
lcl|Glyma.08G251300_174-216	.FHLG.....	CI	YEWME	.....	RSDS	CP	..	V	C	..
lcl|Glyma.18G274000_173-215	.FHLC.....	CI	YEWME	.....	RSDN	CP	..	V	C	..
lcl|Glyma.13G052000_177-221	.FHLG.....	CI	YEWME	.....	RSDN	CP	..	V	CG	KVL
lcl|Glyma.19G034700_177-219	.FHLG.....	CI	YEWME	.....	RSDN	CP	..	V	CG	K
lcl|Glyma.13G206800_34-78	.YHLH.....	CI	IEWSQ	.....	RSKE	CP	..	I	CW	QSL
lcl|Glyma.15G005300_166-208	.FHCS.....	CI	SKWAD	.....	SS	..	..	V	CR	..
lcl|Glyma.01G019300_126-171	.FHFP.....	CI	..	..	V	..	..	V	CNT	SW
lcl|Glyma.09G203400_19-64	.FHFP.....	CI	..	..	V	..	..	V	CNT	SW
lcl|Glyma.01G097900_111-159	.FHFP.....	CI	AAH	..	V	..	..	V	CNAN	W
lcl|Glyma.08G273400_110-158	.FHFP.....	CL	AGH	..	V	..	..	V	CNAN	W
lcl|Glyma.02G218200_86-131	.FHFP.....	CV	SVS	..	S	..	..	V	C	..
lcl|Glyma.14G185600_109-152	.FHFP.....	CV	SVS	..	S	..	..	V	C	..
lcl|Glyma.09G017200_92-144	.FHFA.....	CI	SS	..	N	..	..	V	CR	AHW
lcl|Glyma.15G122900_92-144	.FHFA.....	CI	SS	..	N	..	..	V	CR	AHW
lcl|Glyma.07G270000_80-128	.FHFA.....	CI	SS	..	N	..	..	V	CR	AHW
lcl|Glyma.01G050400_262-297	.FHAE.....	CL	EATPKT	.....	RKSDPP	CP	..	V	C	..
lcl|Glyma.02G109200_262-297	.FHAE.....	CL	EATPKT	.....	RKSDPP	CP	..	V	C	..
lcl|Glyma.12G235700_273-332	.YHAE.....	CL	ESLTSEV	.....	NKYDPS	CP	..	V	C	..
lcl|Glyma.13G201200_274-333	.YHAE.....	CL	ESLTSEV	.....	NKYDPS	CP	..	V	C	..
lcl|Glyma.07G049700_1718-1767	.IHLQ.....	CE	VSEIEGS	.....	SKTSSSG	CP	..	V	C	..
lcl|Glyma.16G018400_1710-1759	.IHLQ.....	CE	VSEIEES	.....	SKTSSSG	CP	..	V	C	..
lcl|Glyma.01G228500_290-332	.FHVH.....	CL	RSWLER	.....	QHT	CP	..	T	CR	ALV
lcl|Glyma.11G011300_290-332	.FHVH.....	CL	RSWLER	.....	QHT	CP	..	T	CR	ALV
lcl|Glyma.04G130500_337-383	.FHLA.....	CL	RSWLDQG	.....	LT	..	..	T	CR	KPL
lcl|Glyma.06G316600_337-383	.FHLA.....	CL	RSWLDQG	.....	LA	..	..	T	CR	KPL
lcl|Glyma.14G105900_232-269	.FHPP.....	CL	KPWL	.....	FYP	..	..	L	C	..
lcl|Glyma.17G220500_232-277	.FHPP.....	CL	KPWLDE	.....	HNS	CP	..	I	CR	HEL
lcl|Glyma.16G032000_12-61	.FHEL.....	CL	QWFEYS	.....	SKGKHT	CP	..	I	CR	..
lcl|Glyma.03G104400_860-896	.FHLR.....	CL	G	..	DN	..	..	E	C	..
lcl|Glyma.07G119500_861-897	.FHLR.....	CL	G	..	DN	..	..	E	C	..
lcl|Glyma.12G116100_524-572	.FHSG.....	CL	QRWMDI	.....	KME	CP	..	T	CR	GPL
lcl|Glyma.12G205300_519-567	.FHSG.....	CL	QRWMDI	.....	KME	CP	..	T	CR	RPL
lcl|Glyma.06G290800_524-572	.FHSG.....	CL	QRWMDI	.....	KME	CP	..	T	CR	RPL
lcl|Glyma.13G295600_507-555	.FHSG.....	CL	QRWMDI	.....	KME	CP	..	T	CR	RPL
lcl|Glyma.01G195200_69-131	.TYERS.....	NI	LKWF	..	..	NLG	..	H	FT	CP
lcl|Glyma.11G046500_134-196	.TYERS.....	NI	LKWF	..	..	NLG	..	H	FT	CP
lcl|Glyma.03G202600_12-76	.TYDRE.....	SI	ETWL	..	..	FSKK	..	N	TT	CP
lcl|Glyma.10G262600_10-74	.TYDRE.....	SI	ETWL	..	..	FSKK	..	N	TT	CP
lcl|Glyma.19G200200_10-74	.TYDRE.....	SI	ETWL	..	..	FSKK	..	N	TT	CP
lcl|Glyma.04G212300_16-53	.TYDRS.....	SI	EKWF	..	..	STG	..	N	LT	CP
lcl|Glyma.06G154100_14-76	.TYDRS.....	SI	EKWF	..	..	SAG	..	N	LT	CP
lcl|Glyma.05G192100_12-74	.TYDRS.....	NI	EKWL	..	..	ALG	..	N	LT	CP
lcl|Glyma.08G000400_12-74	.TYDRS.....	NI	EKWL	..	..	AQG	..	N	LT	CP
lcl|Glyma.05G189600_16-52	.TYDRS.....	SI	QRWL	..	..	DNG	..	N	NT	CP
lcl|Glyma.08G147200_16-52	.TYDRS.....	SI	QRWL	..	..	DNG	..	N	NT	CP
lcl|Glyma.07G106000_30-93	.TYDRE.....	SV	ERWF	..	..	DEG	..	N	IT	CP
lcl|Glyma.15G064800_12-50	.TFDRS.....	SI	QRWL	..	..	DAG	..	N	HRT	CP
lcl|Glyma.16G048700_180-229	.IFCFP.....	CI	LQYL	..	..	LMGEEDHKGDS	..	W	KR	CP
lcl|Glyma.19G103000_221-270	.IFCFP.....	CI	LQYL	..	..	LMGEEDHKGDS	..	W	KR	CP
lcl|Glyma.05G237500_1120-1165	.YMHSA.....	CF	QAY	..	..	TCNHYT	..	C	I	CSKSL
lcl|Glyma.08G044700_1118-1163	.YMHSA.....	CF	QAY	..	..	TCSHYT	..	C	I	CSKSL
lcl|Glyma.07G093700_1126-1171	.YMHSS.....	CF	QAY	..	..	TCSHYT	..	C	I	CSKSL
lcl|Glyma.09G182600_1122-1167	.YMHSS.....	CF	QAY	..	..	TCSHYT	..	C	I	CSKSL
lcl|Glyma.09G115100_1126-1168	.YMHSA.....	CF	QAY	..	..	TCSHYT	..	C	I	CSKSL
lcl|Glyma.17G096900_1156-1201	.VMHST.....	CF	QAY	..	..	TCFNHT	..	C	I	CSKSL
lcl|Glyma.14G130700_200-247	.TIHKS.....	CL	NEMR	..	..	EHFOYA	..	C	L	CKSV
lcl|Glyma.17G202700_200-247	.TIHKS.....	CL	NEMR	..	..	EHFOYS	..	C	L	CKSV
lcl|Glyma.06G074300_199-246	.TIHKS.....	CL	KEMR	..	..	EHFOYA	..	C	L	CKSV
lcl|Glyma.06G116800_4-50	.SVCEA.....	CL	AELP	..	..	QRYQDTI	..	R	CP	..
lcl|Glyma.10G228500_5-52	.SVCEA.....	CL	AELP	..	..	QRYQDTI	..	R	CP	..
lcl|Glyma.08G241700_44-77	.TLCKN.....	CI	LGLQ	.....	..	..	..	..	..	..
lcl|Glyma.04G134700_4-52	.GFCRE.....	CL	SRMF	.....	SASSDAT	..	..	LA	CP	..

lcl|Glyma.11G157400_5-54	GFCRE.....	CLSRMF.....	SASSDAT.....	LA	CP	R	CRHV..
lcl|Glyma.04G224200_401-445	MFCEE.....	CVSEWF.....	ERER.....	T	CP	L	CRALVK..
lcl|Glyma.06G140600_410-454	MFCEE.....	CVSEWF.....	ERER.....	T	CP	L	CRALVK..
lcl|Glyma.18G217900_377-421	IFCED.....	CVSEWF.....	ERER.....	T	CP	L	CRALVK..
lcl|Glyma.08G354400_21-65	MCCFW.....	CVYNSM.....	SCLRRES.....	O	CP	V	CR.....
lcl|Glyma.18G171400_21-65	ICCFW.....	CVYNSM.....	NCLRRES.....	O	CP	V	CR.....
lcl|Glyma.15G237300_55-95	TICSG.....	CKPRVH.....	N.....	R	CP	T	CRHEL..
lcl|Glyma.13G198800_100-140	TICSG.....	CKPRVH.....	N.....	R	CP	T	CRHEL..
lcl|Glyma.04G235700_61-101	TLCST.....	CKTRVH.....	N.....	R	CP	T	CRQEL..
lcl|Glyma.06G129000_62-102	TLCST.....	CKTRVH.....	N.....	R	CP	T	CRQEL..
lcl|Glyma.03G257700_48-88	TLCST.....	CKTRVH.....	N.....	R	CP	T	CRQEL..
lcl|Glyma.13G035400_631-678	.FCPSKYYHVR	CLSSK.....	QLKSYGNCW.....	Y	CP	S	CR.....
lcl|Glyma.14G156600_631-678	.FCPSKYYHVS	CLSSK.....	QLKSYGNCW.....	Y	CP	S	CR.....
lcl|Glyma.12G192700_673-714	.FCKA.....	CLIDF.....	S.ASLGRVS.....		CP	T	CSK.....
lcl|Glyma.13G309700_670-711	.FCKA.....	CLIDF.....	S.SSLGRVS.....		CP	T	CSK.....
lcl|Glyma.07G148900_159-201	.MCMK.....	CYEDW.....	H.ARSQS.....		CP	F	CR.....
lcl|Glyma.18G200100_157-199	.MCMK.....	CYEDW.....	H.ARSQS.....		CP	F	CR.....
lcl|Glyma.03G060000_142-184	.LCMK.....	CYRNW.....	H.ARSQS.....		CP	F	CR.....
lcl|Glyma.07G195400_147-189	.MCLK.....	CYREW.....	R.TISQS.....		CP	F	CR.....
lcl|Glyma.13G180900_147-189	.MCLK.....	CYREW.....	R.TISQS.....		CP	F	CR.....
lcl|Glyma.13G240800_150-198	.MCLT.....	CYHEW.....	R.TRSQS.....		CP	F	CRNSLKR..
lcl|Glyma.15G072700_147-189	.MCLK.....	CYHEW.....	R.TRSQS.....		CP	F	CR.....
lcl|Glyma.18G063500_143-185	.MCLK.....	CYRDW.....	C.QRSQS.....		CP	F	CR.....
lcl|Glyma.05G144300_156-204	.MCIK.....	CYRKK.....	N.TRSES.....		CP	F	CRGSLRRV..
lcl|Glyma.08G100700_156-204	.MCIK.....	CYRKK.....	N.TRSES.....		CP	F	CRGSLRRV..
lcl|Glyma.11G246100_158-206	.MCIK.....	CYRKK.....	N.RKSES.....		CP	F	CRGSLRRV..
lcl|Glyma.18G011100_158-206	.MCIK.....	CYRKK.....	N.RKSES.....		CP	F	CRGSLRRV..
lcl|Glyma.05G044700_154-201	.MCIN.....	CYSDG.....	N.TRSES.....		CP	L	CRGSIKS..
lcl|Glyma.11G246300_78-119	.LCIS.....	CFHDW.....	Y.MRSES.....		CP	F	CR.....
lcl|Glyma.18G010900_145-192	.LCIS.....	CFHDW.....	Y.MRSES.....		CP	F	CRGSLKRI..
lcl|Glyma.02G309100_117-162	.LCLR.....	CFEKK.....	VGQK.RT.....	CA		N	CRAQI..
lcl|Glyma.14G003700_117-162	.FCLR.....	CFEKK.....	IGQK.RT.....	CA		N	CRAQI..
lcl|Glyma.12G001300_129-175	.FCLK.....	CFEKK.....	VRQK.RN.....	CA		K	CRQII..
lcl|Glyma.05G198100_138-187	.FCNG.....	CFSEW.....	LRRSKERHS.....	AVL	CP	O	CRAVV..
lcl|Glyma.04G165900_213-256	.FCCS.....	CLFQS.....	MDR.....	GNK	CP	L	CR.....
lcl|Glyma.06G196600_193-236	.FCRS.....	CLFQS.....	MDR.....	GNR	CP	L	CR.....
lcl|Glyma.16G063400_170-217	.FCRK.....	CLRSA.....	ADKC.....	GKK	CP	K	CRQLIS..
lcl|Glyma.19G082000_171-218	.FCRK.....	CLRSA.....	ADKC.....	GKK	CP	K	CRQLIS..
lcl|Glyma.12G180800_764-813	.LCRE.....	CLLSS.....	WRNAT.....	SGL	CP	V	CRKTISR..
lcl|Glyma.13G320000_790-839	.LCRE.....	CLLSS.....	WRNAT.....	SGL	CP	V	CRKTISR..
lcl|Glyma.20G087900_859-904	.FCRE.....	CLFSC.....	WGTSV.....	GGK	CP	I	CRQ.....
lcl|Glyma.02G149800_290-333	CCCTT.....	CSSHLL.....	T.....	NC	CP	L	CRQIEKV..
lcl|Glyma.10G024100_292-330	CCCTA.....	CSSHLL.....	T.....	NC	CP	L	CRQI.....
lcl|Glyma.03G080300_332-382	VCCQG.....	CAISV.....	EREVA.....	PK	CP	V	CRQEIRDS..
lcl|Glyma.16G008300_327-377	VCCQG.....	CAISV.....	EREVA.....	PK	CP	V	CRQEIRDS..
lcl|Glyma.18G149800_331-381	VCCQG.....	CAISV.....	EREVA.....	PK	CP	V	CRQEIRDS..
lcl|Glyma.04G043900_344-393	ATCYD.....	CAQRI.....	LDEES.....	IV	CP	I	CRRLIHK..
lcl|Glyma.06G044100_357-407	ATCYD.....	CAERI.....	VDGES.....	KV	CP	I	CRRLIHKV..
lcl|Glyma.07G150500_385-433	VACFA.....	CGTRI.....	AEAAG.....	T	CP	V	CRNMKKV..
lcl|Glyma.18G201500_386-434	VACFA.....	CGTRI.....	AEAAG.....	T	CP	V	CRNMKKV..
lcl|Glyma.10G181100_405-450	AGCMS.....	CLNEV.....	KSKK.....	WG	CP	V	CRAKIDQV..
lcl|Glyma.20G209400_406-451	AGCMS.....	CLNEV.....	KSKK.....	WG	CP	V	CRAKIDQV..
lcl|Glyma.03G180500_289-337	CMCSG.....	CAKDS.....	RFQTD.....	RCS		I	CRQPVER..
lcl|Glyma.19G181100_312-356	CMCSG.....	CAKVL.....	RFQTD.....	RCP		I	CRQPVER..
lcl|Glyma.10G052000_291-337	CMCSG.....	CAKVL.....	RFQTN.....	RCP		I	CRQPVER..
lcl|Glyma.13G139400_291-337	CMCSG.....	CAKVL.....	RFQTN.....	RCP		I	CRQPVER..
lcl|Glyma.13G326700_239-283	CMCSG.....	CANLL.....	KVHTA.....	NC	CP	I	CRYPVER..
lcl|Glyma.07G257200_279-325	CMCGD.....	CAKAL.....	RLQSN.....	KCP		I	CRQPIEE..
lcl|Glyma.17G016900_219-265	CMCGD.....	CAKAL.....	RPQSN.....	KCL		I	CRQPIEE..
lcl|Glyma.13G208500_314-360	CMCSE.....	CANAH.....	RLQSN.....	KCP		I	CRQPIEE..
lcl|Glyma.15G104300_316-362	CMCSE.....	CANAL.....	RQSN.....	KCP		I	CRQPIEE..
lcl|Glyma.09G048200_866-915	CTCLK.....	CANEL.....	QWNSG.....	KCP		I	CRAKIVDV..
lcl|Glyma.15G155500_861-910	CTCLK.....	CANEL.....	QWNSG.....	KCP		I	CRAKIEDV..
lcl|Glyma.10G198600_793-842	CTCSK.....	CANEL.....	IRGGG.....	KCP		L	CRAPILEV..
lcl|Glyma.20G191400_792-841	CTCSK.....	CANEL.....	IRGGG.....	KCP		L	CRAPIVEV..
lcl|Glyma.11G191900_808-850	CTCSK.....	CANEL.....	LQSRR.....	KCP		M	COAPV..
lcl|Glyma.12G082400_798-847	CTCSK.....	CANEL.....	LQSRR.....	NC	CP	M	COAPVVEV..
lcl|Glyma.12G179300_740-789	CTCSK.....	CANDL.....	LQSRR.....	KCP		M	COAPVVEV..
lcl|Glyma.13G321300_793-842	CTCSK.....	CANDL.....	LQSRR.....	KCP		M	COAPVVEV..
lcl|Glyma.13G212200_825-875	VVCTT.....	CNDLH.....	EKQGM.....	QD	CP	S	CRSPIQRR..
lcl|Glyma.15G100500_827-877	VVCTT.....	CNELH.....	EKQGM.....	QD	CP	S	CRSPIQRR..
lcl|Glyma.17G020500_819-869	VVCTP.....	CNELH.....	EKQGM.....	QD	CP	S	CRSPIQRR..
lcl|Glyma.07G253800_821-871	VVCKT.....	CNELH.....	EKQGM.....	QD	CP	S	CRSPIQRR..
lcl|Glyma.02G150400_776-826	VVCPE.....	CNELH.....	EKQGM.....	KE	CP	S	CRAPIQRR..
lcl|Glyma.05G112600_659-709	VMCAS.....	CSDEY.....	GRGKG.....	AI	CP	C	CRVQIQRR..
lcl|Glyma.17G154400_621-671	VMCAS.....	CSDEY.....	GRGKG.....	AT	CP	C	CRVQIQRR..
lcl|Glyma.11G042600_620-669	VMCAR.....	CGKEY.....	GKKGK.....	AV	CP	C	CRVPIEER..
lcl|Glyma.04G009100_1020-1065	CLCKS.....	CSLAC.....		SE	CP	I	CRTNITDR..
lcl|Glyma.06G009000_1020-1065	CLCKS.....	CSLAC.....		SE	CP	I	CRTSITDR..
lcl|Glyma.16G098500_18-63	CLCKS.....	CSLAC.....		SE	CP	I	CRTSITDR..
lcl|Glyma.07G159000_32-77	CLCKS.....	CSLAC.....		FE	GP	I	CRTSITDR..
lcl|Glyma.11G112700_1028-1064	CLCKS.....	CSLAC.....		SE	CP	L	CR.....
lcl|Glyma.12G038600_1038-1083	CLCKS.....	CSLAC.....		SE	CP	I	CRTNISDR..
lcl|Glyma.05G013200_415-460	VLCST.....	CSEQKR.....		KK	CP	I	CRDSIAER..
lcl|Glyma.17G121200_415-460	VLCST.....	CSEKC.....		KK	CP	I	CRDSIAER..
lcl|Glyma.10G204900_433-478	ILCST.....	CCEKC.....		KR	CP	V	CRGPIEER..
lcl|Glyma.20G185600_422-467	ILCST.....	CCEKC.....		KR	CP	V	CRGPIEER..
lcl|Glyma.01G029500_286-325	CLCKD.....	CEGFI.....		NV	CP	V	CO.....
lcl|Glyma.02G035800_286-325	CLCKD.....	CEGFI.....		NV	CP	V	CO.....
lcl|Glyma.14G083900_301-342	CLCKD.....	CESKL.....		SF	CP	L	CQSS.....
lcl|Glyma.17G241100_292-333	CLCKD.....	CESKL.....		SF	CP	L	CQSS.....
lcl|Glyma.08G170400_204-247	CLCTA.....	CGSSL.....		HI	CP	I	CKSFKTAS..
lcl|Glyma.15G256500_288-331	CLCTV.....	CGSSL.....		HI	CP	I	CKSYKTAS..
lcl|Glyma.09G019900_261-297	CLCTM.....	CGSTV.....		RN	CP	I	CR.....
lcl|Glyma.15G126400_264-300	CLCTM.....	CGTTI.....		RN	CP	I	CR.....
lcl|Glyma.01G203300_274-316	CICAE.....	CDTHF.....		RA	CP	V	CLTVKNST..
lcl|Glyma.11G039700_281-323	CICAE.....	CDGHF.....		RA	CP	V	CLTVKNST..
lcl|Glyma.05G068400_302-344	CVCTE.....	CDAHF.....		RA	CP	V	CLTPKNST..
lcl|Glyma.17G150900_309-344	CICTE.....	CDAHF.....		RA	CP	V	CLTPKNST..
lcl|Glyma.09G282200_4713-4753	.LCRR.....	CSS.....	AV.....	SR	CP	F	CRQLQVTK..
lcl|Glyma.20G003400_4712-4751	.LCRR.....	CSS.....	AV.....	SR	CP	F	CRQLQVTK..
lcl|Glyma.04G220000_1217-1265	.SCYR.....	CITRH.....	LL.NC.....	QR	CF	F	CNATVTDV..
lcl|Glyma.06G145900_1217-1265	.SCYG.....	CITRH.....	LL.NC.....	QR	CF	F	CNATVTDV..

lcl|Glyma.08G358300_319-375 .MCAH.....CTLAL.....CCHKK.LDPATTGLSGPVP...FCRGS I

lcl|Glyma.18G176600_318-374 .MCAH.....CTLAL.....CCHKK.PDPATAGLSGPV...FCRGTI

lcl|Glyma.12G063600_316-372 .MCAQ.....CTLAL.....CCHNK.PNPSTRVIPPV...FCRSSI

lcl|Glyma.11G140000_316-372 .MCAQ.....CTLAL.....CCHNK.PNPSTRVIPPV...FCRSTI

lcl|Glyma.13G335300_323-381 .MCAQ.....CTLAL.....CCHNK.PNPATACLTTPPV...FCRSTITR

lcl|Glyma.15G039100_316-374 .MCAQ.....CTLAL.....CCHNK.PNPATACLTTPPV...FCRSTITR

lcl|Glyma.08G315500_281-340 .MCAH.....CIMRL.....CQKKS.DIDAPRSSNSKPV...FCRGDIVR

lcl|Glyma.03G079200_225-269 .FCRT.....CSREI.....WVSRG.....NCP...LNNLILEI

lcl|Glyma.16G094800_214-258 .FCRM.....CSREI.....WVSRG.....NCP...LNNLILEI

lcl|Glyma.08G350900_306-345 .FCRM.....CSREL.....MVSRG.....NCP...RCN

lcl|Glyma.18G165000_306-353 .FCRM.....CSREL.....MVSRG.....NCP...LNNFILEI

lcl|Glyma.07G264100_155-203 .FCRV.....CSREL.....WLNRG.....TCP...LNNRSILEI

lcl|Glyma.17G009900_146-194 .FCRV.....CSREL.....WLNRG.....TCP...LNNRSILEI

lcl|Glyma.09G008200_144-192 .FCRV.....CSREL.....WLNRG.....SCP...LNNRSILEI

lcl|Glyma.15G112600_157-205 .FCRV.....CSREL.....WLNRG.....SCP...LNNRSILEI

lcl|Glyma.04G189900_380-423 .TCCD.....CGQDL.....EL.....CP...ICRSTIDTR

lcl|Glyma.06G175700_381-424 .TCCD.....CGQDL.....EL.....CP...ICRSTIDTR

lcl|Glyma.05G173500_413-456 .TCCD.....CGENL.....EC.....CP...ICRSTITTR

lcl|Glyma.08G130800_413-456 .TCCD.....CGENL.....EC.....CP...ICRSTITTR

lcl|Glyma.11G244000_416-459 .TCCD.....CGEDL.....QF.....CP...ICRSTIHTR

lcl|Glyma.18G013100_412-455 .TCCD.....CGEDL.....QF.....CP...ICRSTIHTR

lcl|Glyma.05G115700_444-487 .TCCD.....CGQDL.....QS.....CP...ICRSPINTR

lcl|Glyma.19G051500_449-492 .TCCD.....CGQDL.....QS.....CP...ICRSPINTR

lcl|Glyma.19G078600_381-424 .TCCD.....CGQDL.....QS.....CP...MCRSPINTR

lcl|Glyma.19G124300_227-270 .TCCD.....CGQDL.....QS.....CP...MYRSPINTI

lcl|Glyma.16G068400_384-427 .TCCD.....CGQDL.....QS.....CP...MCRSPINAR

lcl|Glyma.04G211000_388-427 .TCKE.....CGSTL.....SS.....CP...MCRHOITTR

lcl|Glyma.05G193500_382-421 .TCKE.....CGVTL.....SS.....CP...MCRQBITTR

lcl|Glyma.08G234200_376-419 .TCRD.....CGSRL.....TN.....CP...ICRORITNR

lcl|Glyma.15G219300_368-411 .TCRD.....CGSRL.....TD.....CP...ICRORITNR

lcl|Glyma.10G238000_315-375 .LCVR.....CALYL.....CSTNNVSSEMGLPFGSIP...LCRHGVVSF

lcl|Glyma.20G156600_315-375 .LCVR.....CALYL.....CSTNNVSSEMVGPPGSIP...LCRHGVVSF

lcl|Glyma.09G143600_314-374 .LCVR.....CALYL.....CSTNSVSETGGPPGSIP...LCRHGVVSF

lcl|Glyma.01G178600_28-77 .FCWP.....CLYRW.....LHHSHSQE.....CP...VCKALVQE

lcl|Glyma.11G063500_28-77 .FCWP.....CLYRW.....LHHSHSQE.....CP...VCKALVQE

lcl|Glyma.04G034500_31-78 .FCWP.....CLYKW.....LHFHSQSRE.....CP...VCKALVEE

lcl|Glyma.06G034500_29-78 .FCWP.....CLYKW.....LHFHSQSRE.....CP...VCKALVEE

lcl|Glyma.03G145700_157-202 .FCWS.....CLYRW.....LHLHSDAKE.....CP...VCKGEVT

lcl|Glyma.19G148900_156-201 .FCWP.....CLYRW.....LHLHSDAKE.....CP...VCKGEVT

lcl|Glyma.08G157200_105-149 .FCWP.....CFHKL.....SYAYS DVRE.....CP...VCKGDV

lcl|Glyma.15G269000_105-151 .FCWP.....CFHKL.....SYAYS DVRE.....CP...VCKGDVTE

lcl|Glyma.09G001100_123-170 .FCWQ.....CFYQV.....QIVYSNARE.....CP...VCKGEVTET

lcl|Glyma.12G240800_129-176 .FCWQ.....CFYQV.....QIVYSNARE.....CP...VCKGEVTET

lcl|Glyma.06G293400_33-91 .YCWV.....CIYKW.....LHFQSTSLDDEEQQR.PQ...VCKSEVSQS

lcl|Glyma.12G112000_36-91 .YCWV.....CIYKW.....LHFQSTSLDNEEQQR.PQ...VCKSEVSQS

lcl|Glyma.12G203900_46-99 .YCWV.....CIYKW.....LNFLSASCENEKQ...QCP...VCKSEISQS

lcl|Glyma.13G297700_44-94 .YCWV.....CIYKW.....LNLQATASSENEEKQ...QCP...VCK

lcl|Glyma.12G151200_37-90 .YCWV.....CIYKW.....LDVQSSSVPEYQQQ...TCP...VCKSEISHT

lcl|Glyma.07G196000_33-84 .YCWV.....CIYKW.....LHVQASLAPDEHP...QCP...VCKDDI

lcl|Glyma.13G179900_30-81 .YCWV.....CIYKW.....LHVQASLAPDEHP...QCP...VCKDDI

lcl|Glyma.13G239500_29-80 .YCWV.....CIYKW.....LHVQSDSLPDEHP...QCP...VCKADI

lcl|Glyma.15G073700_29-80 .YCWV.....CIYKW.....LHVQSDSLAPDEHP...QCP...VCKADI

lcl|Glyma.14G099100_339-384 .FCWN.....CITEW.....CNEKPE.....CP...LCRTPITHS

lcl|Glyma.17G225600_339-384 .FCWN.....CITEW.....CNEKPE.....CP...LCRTPITHS

lcl|Glyma.01G074000_824-869 .FCYS.....CIQ.....KVAGSRHR...KCP...QCCTS

lcl|Glyma.11G175700_818-875 .FCYS.....CIQ.....KVAGSRHR...KCP...QCSTSGANDVK

lcl|Glyma.02G267300_828-871 .FCNP.....CIQ.....RNLELRHR...KCP...ACGTAF

lcl|Glyma.14G050200_828-871 .FCNP.....CIQ.....RNLELRHR...KCP...ACGTAF

lcl|Glyma.10G288200_718-762 .FCYQ.....CVS.....EYLTGDDN...MCP.S.VNCKELI

lcl|Glyma.20G100800_721-765 .FCYQ.....CVS.....EYLTGDDN...TCP.S.VNCKELI

lcl|Glyma.04G125600_69-110 .FCKA.....CIS.....RFKD.....CP...LCGADIVKI

lcl|Glyma.06G313000_69-110 .FCKA.....CIL.....RFKD.....CP...LCGADIVKI

lcl|Glyma.10G155500_28-80 .FCFN.....CILRW.....TKVVAGKHRSPSSV...KCP...LCKTE

lcl|Glyma.20G232800_26-78 .FCFN.....CILRW.....TKVVASKHRSPSSV...KCP...LCKTE

lcl|Glyma.04G255000_11-57 .FCGN.....CIM.....LVWQHGSVGCSC...KCP...LCRRAI

lcl|Glyma.11G103800_150-191 .FCKD.....CIKA.....AISAQG.....KCP...TCRKKV

lcl|Glyma.12G028700_150-191 .FCKD.....CIKA.....AISAQG.....KCP...TCRKKV

lcl|Glyma.09G281300_151-194 .FCKN.....CIRA.....AISAQA.....KCP...TCRKKVTK

lcl|Glyma.20G004500_80-121 .FCKN.....CIRA.....ALSAQA.....KCP...TCRKV

lcl|Glyma.03G124900_577-621 .FCRI.....CILR.....ALQNKPN...CP...LCRR

lcl|Glyma.03G214100_219-270 .FCYI.....CACS.....AASVSVNGLKSADPKMK...CP...LCRE

lcl|Glyma.19G210900_219-269 .FCYI.....CACS.....AASVSVNGLKSADPKMK...CP...LCR

lcl|Glyma.10G018800_210-261 .FCYT.....CACS.....TASVIVDGLKAANPKK...CP...LCRE

lcl|Glyma.19G203000_218-270 .FCKS.....CACS.....AASVMIFQGLKAASPESK...CP...ICREV

lcl|Glyma.08G153800_209-269 .FCIS.....CIRNWRSS.NPTLGMVDN...STLRA...CP...ICRK

lcl|Glyma.15G272400_209-269 .FCIS.....CIRNWRSS.NPTLGMVDN...STLRA...CP...ICRK

lcl|Glyma.08G154100_188-251 .FCLS.....CIRNWRNSAAPTSGMDIGNAGTANTVRT...CP...V

lcl|Glyma.15G273000_188-250 .FCLS.....CIRNWRNS.APTSGMDISNAGTANTVRT...CP...V

lcl|Glyma.10G151500_34-80 .FHLD.....CIG.....SAFNIK.....GAMQ...CP...NCRK

lcl|Glyma.20G236700_42-88 .FHLD.....CIG.....SAFNIK.....GAMQ...CP...NCRK

lcl|Glyma.19G232800_18-67 .FHLD.....CIG.....SAFNIK.....GAMQ...CP...NCRK

lcl|Glyma.02G219200_1354-1408 .TCCK.....CLFAMT.EKRLQNSKLNHW...VMCP...TCRQH

lcl|Glyma.14G186500_414-466 .TCCK.....CLFAMT.EKRLQNNKLNHW...VMCP...TCRQHT

lcl|Glyma.06G290400_82-126 .FCRE.....CIDKS.....MRLGNNE.....CP...ACRTHC

lcl|Glyma.12G116500_60-104 .FCRE.....CIDKS.....MRLGNNE.....CP...ACRTHC

lcl|Glyma.12G205500_121-165 .FCRE.....CIDKS.....MRLGNNE.....CP...ACRTHC

lcl|Glyma.13G295300_124-168 .FCRE.....CIDKS.....MRLGNNE.....CP...ACRTHC

lcl|Glyma.08G350700_40-90 .FCRD.....CIEKS.....FRLGNNE.....CP...ACRT

lcl|Glyma.13G177200_138-181 .FCGK.....CIEKS.....MRLSNNE.....CP...VCRVHC

lcl|Glyma.02G267800_40-81 .FCYM.....CIITH.....LRNKS.....DCP...CC

lcl|Glyma.14G049700_46-87 .FCYM.....CIITH.....LRNKS.....DCP...CC

lcl|Glyma.02G141500_20-65 .TFCRK.....CIYDKI.....TDEEL.....ENCP...VCNIDL

lcl|Glyma.10G032500_19-64 .TFCRK.....CIYDKI.....ADEEL.....ENCP...VCNIDL

lcl|Glyma.03G159500_34-79 .TFCRK.....CIYDKI.....TDEEI.....ECCP...ICNIDL

lcl|Glyma.19G161700_18-63 .TFCRK.....CIYDKI.....TDEEI.....ECCP...ICNIDL

lcl|Glyma.10G162800_19-64 .TFCRK.....CIYEKL.....SDEET.....DCP...VCNIDL

lcl|Glyma.20G225400_20-65 .TFCRK.....CIYEKL.....SDEEM.....DCP...VCHIDL

lcl|Glyma.10G180300_32-77 .SFCRE.....CVDKKL.....IDEKL.....KHC...CP...ICNRDL

lcl|Glyma.03G165600_25-74 .LFCNS.....CLADCI.....TAG.....SECA...VCKITYAQTDVR

lcl|Glyma.19G166900_24-66 .LFCNS.....CLADCI.....TAG.....PGCA...VCKA

lcl|Glyma.13G220400_468-515 .LFCNS.....CIFKSM.....KSA.....SACP...VCKIPFTRR

lcl|Glyma.15G092000_450-498 .LFCNS.....CIFKSM.....KSA.....SACP...VCKIPFTRR

lcl|Glyma.09G099300_2-43 .LLCTD.....DANKIL.....SND.....GACP...ICDQ

lcl|Glyma.15G209600_2-43	LLCTD.....DANKIL.....SND.....GA	CP	ICDQ
lcl|Glyma.10G149400_424-470	FFCFA.....CIMewa.....KVE.....SR	CP	LCKQRF
lcl|Glyma.20G238800_406-452	FFCFA.....CIMewa.....KVE.....SR	CP	LCKQRF
lcl|Glyma.17G082300_27-72	HFCFV.....CIMewa.....KHE.....SR	CP	ICRQRF
lcl|Glyma.19G042100_335-385	RFCFP.....CIQNWADHTTSMRKT.....ST	CP	LCKAS
lcl|Glyma.09G206500_285-320	FFCLK.....CLOTFA.....QIH.....		
lcl|Glyma.02G103300_678-724	.FHSG.....CIKQWLM.....QKNL	CP	ICKT
lcl|Glyma.07G214600_664-710	.FHSG.....CIKQWLM.....QKNL	CP	ICKT
lcl|Glyma.04G039700_603-649	.FHSS.....CIKQWLM.....QKNL	CP	ICKT
lcl|Glyma.04G039800_683-729	.FHSS.....CIKQWLM.....HKNL	CP	ICKT
lcl|Glyma.06G041000_657-703	.FHSS.....CIKQWLM.....HKNL	CP	ICKT
lcl|Glyma.05G241900_382-427	.YHFQ.....CIKQWVA.....QKNF	CP	VCKQVQ
lcl|Glyma.08G049400_328-373	.YHFQ.....CIKQWAA.....QKNF	CP	VCKQVQ
lcl|Glyma.07G097700_305-350	.YHFQ.....CIKQWLV.....HKNF	CP	VCKQEV
lcl|Glyma.09G180300_320-365	.YHFQ.....CIKHVLE.....HKNF	CP	VCKQEV
lcl|Glyma.14G134600_501-543	.FHVV.....CIQEWLR.....HKNW	CP	ICK
lcl|Glyma.17G198300_478-520	.FHVV.....CIQEWLR.....LKNW	CP	VCK
lcl|Glyma.06G076600_488-533	.YHVA.....CIQWVLO.....LKNW	CP	ICKASV
lcl|Glyma.03G179300_494-542	.YHVS.....CIKKWLS.....LRKL	CP	ICKVS
lcl|Glyma.19G180000_492-540	.YHVS.....CIKKWLS.....MKKL	CP	ICKVS
lcl|Glyma.10G051200_482-530	.YHVG.....CIKRWLS.....MKKV	CP	ICKAS
lcl|Glyma.13G138700_493-541	.YHVG.....CIKRWLS.....MKKV	CP	ICKVS
lcl|Glyma.06G229700_316-362	.YHAD.....CLRRWLL.....EKNV	CP	LCKS
lcl|Glyma.06G234500_258-302	.YHAD.....CLRRWLL.....EKNV	CP	MCKS
lcl|Glyma.11G156300_288-334	.YHTD.....CLKKWLL.....EKNV	CP	MCKS
lcl|Glyma.06G234300_402-449	.YHAD.....CLKKWLL.....VKNV	CP	VCKSE
lcl|Glyma.12G158500_402-449	.YHAD.....CLKKWLL.....VKNV	CP	ICKSE
lcl|Glyma.13G272700_474-517	.YHAD.....CLRTWLV.....VKNV	CP	ICKSE
lcl|Glyma.04G249100_149-193	.YHSD.....CISKWLO.....IKKV	CP	ICGNEV
lcl|Glyma.06G113900_130-174	.YHSD.....CISKWLO.....IKKV	CP	ICGNEV
lcl|Glyma.13G031100_152-196	.YHTD.....CISKWLO.....IKKV	CP	ICNTFI
lcl|Glyma.14G152800_154-198	.YHTD.....CISKWLO.....IKKV	CP	ICNIEI
lcl|Glyma.10G284900_291-328	.YHPE.....CINNWLK.....INK		
lcl|Glyma.20G104300_280-331	.YHPE.....CINNWLK.....INKV	CP	VCSSTVVSAS
lcl|Glyma.11G132700_192-240	.YHAS.....CGNKWLS.....INKA	CP	ICYTEV
lcl|Glyma.12G057100_192-240	.YHAS.....CGNKWLS.....INKA	CP	ICYTEV
lcl|Glyma.12G237700_196-240	.YHGE.....CITKWLS.....INKK	CP	VCNTEV
lcl|Glyma.13G203300_196-240	.YHGE.....CITKWLS.....INKK	CP	VCNTEV
lcl|Glyma.03G184600_122-174	.YGMS.....CIKKWLOH.....RRNSNK	CP	QCKVK
lcl|Glyma.14G147100_225-268	.YCSE.....CILRWLD.....NNKT	CP	VCR
lcl|Glyma.01G219800_243-291	.WHTY.....CLSPPLEH.....IP.PG		CLNS
lcl|Glyma.11G023700_243-291	.WHTY.....CLSPPLEK.....IP.PG		CLNS
lcl|Glyma.13G170000_1273-1321	.YHTY.....CLNPPLAR.....IP.EG		CVVG
lcl|Glyma.19G010200_1251-1297	.YHTY.....CLNPPLAR.....IP.EG		CVV
lcl|Glyma.02G013500_1244-1297	.THID.....CCDPLTA.....VP.EE		DWFCPK
lcl|Glyma.10G014100_1243-1296	.THID.....CCDPLTH.....VP.EE		DWFCPK
lcl|Glyma.02G295400_391-439	.FHLK.....CLQPSVLRG.....IHN.RV		DWHCMR
lcl|Glyma.14G018000_392-439	.FHLK.....CLQPSVLRG.....IHN.RV		DWHCMR
lcl|Glyma.09G059700_234-289	.FHQR.....CLNPPLDTEN.....IPPGDQ		GWFCKF
lcl|Glyma.15G166200_251-303	.FHQR.....CLNPPLDTEN.....IPPGDQ		GWFCKF
lcl|Glyma.17G059400_224-279	.FHQK.....CLDPPLDTEN.....IPPGEQ		GWFCKF
lcl|Glyma.10G260400_343-398	.FHQL.....CLDPPMLTED.....IPPGDE		GWFCPG
lcl|Glyma.20G130800_344-399	.FHQL.....CLDPPMLTED.....IPPGDE		GWFCPG
lcl|Glyma.01G234300_253-300	.AEHTY.....CMREMLEK.....VPEGD		WLCBE
lcl|Glyma.11G008600_251-297	.AEHTY.....CMREMLEK.....VPEGD		WLCBE
lcl|Glyma.12G014900_273-322	.AEHTY.....CMREMLEK.....VPEGD		WLCBE
lcl|Glyma.11G109800_273-322	.AEHTY.....CMREMLEK.....VPEGD		WLCBE
lcl|Glyma.17G155700_20-68	.AEHIY.....CMRDKLEK.....VPDGDW		WTCED
lcl|Glyma.04G163100_13-61	.CEHSY.....CMRFN.....TLIVP		IDWICEP
lcl|Glyma.11G043500_25-80	.AEHTY.....CLMDPDEQS.....KLEAKPEL		RKDWTCED
lcl|Glyma.06G230000_305-354	.ARHRY.....CLDGP.....VIFTD		DVTWFCED
lcl|Glyma.09G125400_373-422	.ALHRY.....CLDGP.....VIFTD		DVTWFCED
lcl|Glyma.10G227100_4-50	.ALHRY.....CLKGP.....VVFTD		AVTWFCED
lcl|Glyma.20G165200_4-53	.ALHRY.....CLKGP.....VIFTD		AVTWFCED
lcl|Glyma.04G214800_25-74	.AEHSY.....CLDKF.....HTEDDG		TLIWRCD
lcl|Glyma.04G062400_53-97	.YHPR.....CLLPLK.....GPLPD		NWRCE
lcl|Glyma.06G063400_53-97	.YHPK.....CLLPLK.....GPLPD		NWRCE
lcl|Glyma.12G170900_115-166	.QHIN.....CVIIEKPMGDGIPVDP		KFYCEI
lcl|Glyma.13G328100_115-166	.QHIS.....CVIIEKPMGDGIPVDP		KFYCEI
lcl|Glyma.12G071300_116-167	.QHIS.....CVIIEKPTGEGILVDP		KFYCEL
lcl|Glyma.04G253800_296-345	.VHRK.....CYG.VHDD.....IDE		AWLCSW
lcl|Glyma.06G108500_295-345	.VHRK.....CYG.VYDD.....VDG		TWMSW
lcl|Glyma.15G219200_660-708	.VHST.....CLMPPIGDI.....VPE		EWSCHL
lcl|Glyma.01G238300_516-558	.FHQS.....CLD.....I.QMLP		PGEWH
lcl|Glyma.11G005500_722-764	.FHQS.....CLD.....I.QMLP		PGEWH
lcl|Glyma.01G238200_728-770	.FHQS.....CLD.....I.QMLP		LGEWH
lcl|Glyma.11G005300_720-760	.FHQS.....CLD.....I.QMLP		PGEWH
lcl|Glyma.02G146500_568-610	.FHQG.....CLD.....I.KKFP		SGDWH
lcl|Glyma.03G155500_313-355	.FHQS.....CLD.....I.QTLP		SGDWN
lcl|Glyma.10G044200_547-587	.FHAA.....CLG.....L.QCVP		DSGWCLN
lcl|Glyma.13G131800_545-585	.FHAA.....CLG.....L.QCVP		DSGWCLN
lcl|Glyma.06G046500_300-343	.FHLS.....CLG.....L.EHVP		DGDWFC
lcl|Glyma.11G170900_521-564	.FHKT.....CLG.....L.EDIP		NGDWF
lcl|Glyma.03G181800_43-91	.YHPS.....CIVDP.....PL.NYIP		LGFWH
lcl|Glyma.11G074400_81-126	.YHPS.....CIVKR.....DE.AFFRS		KAKWN
lcl|Glyma.13G320100_386-430	.YHRS.....CIVG.....MK.MHIP		EGAWY
lcl|Glyma.02G296200_232-286	.RENS.....CIVSL.....GFTQKEVDE		IQSFY
lcl|Glyma.18G086000_229-283	.EEST.....CASL.....GFSRKEVDE		IQNFY
lcl|Glyma.13G197800_36-86	.VHAT.....CLAT.....GP.KFDG		SGNF
lcl|Glyma.15G236400_75-123	.VHAT.....CLGF.....EP.EFDD		SGNF
lcl|Glyma.13G057300_662-708	.FHAD.....CLGI.....KEH.EVSS		RKWS
lcl|Glyma.19G029100_661-707	.FHAD.....CLGI.....KEH.EVSS		RKWS
lcl|Glyma.02G227900_820-872	.YHVG.....CLKD.....REKYESRIY		MKNWL
lcl|Glyma.14G194800_734-787	.YHVE.....CLKD.....REKSESRIY		MKNWL
lcl|Glyma.11G171200_781-832	.YHVR.....CLEN.....GAADISTRY		LGNWF
lcl|Glyma.10G062700_503-554	.YHVG.....CLRDHKMAYLKELP		EGDWF
lcl|Glyma.13G147100_501-557	.YHVG.....CLRDHKMAYLKELP		EGDWF
lcl|Glyma.02G058300_166-214	.YHGK.....CIMMPTK.....GETLKH		YK
lcl|Glyma.06G319800_166-214	.YHGK.....CIMMPTK.....AETLKH		YK
lcl|Glyma.07G271400_198-247	.FHGK.....CVKITPAK.....AEHIKQ		YK
lcl|Glyma.17G002600_199-248	.FHGK.....CVKITPAK.....AEHIKQ		YK
lcl|Glyma.11G190000_1281-1329	.YHAE.....AVELEESK.....ISSVLG		FKCSK
lcl|Glyma.12G084300_1287-1335	.YHAE.....AVELEESK.....ISSVLG		FKCSK

1c1|Glyma.12G180700_1293-1341 .YHAE.....AVELEESK....LFDVLG.....FKCCK...CR.....
 1c1|Glyma.07G056000_373-427 .VHAE.....CDKISSKV....FKDLENT.....DYYCFD...CKGK.....
 1c1|Glyma.16G024900_371-425 .VHAE.....CDKISSKL....FKDLENT.....DYYCFD...CKGK.....
 1c1|Glyma.03G215600_371-425 .VHAE.....CDKISSKH....FKDLENT.....DYYCFD...CKGK.....
 1c1|Glyma.19G212100_374-428 .VHAE.....CDKISSKL....FKDLENA.....DYYCFD...CKGK.....
 1c1|Glyma.04G236500_434-488 .VHAE.....CDKICSNL....FKNLEGT.....DYYCPT...CKAK.....
 1c1|Glyma.06G127800_441-495 .VHAE.....CDKISSNL....FKNLEGT.....DYYCPT...CKAK.....
 1c1|Glyma.19G066800_376-430 .VHAE.....CDKISSNL....FKNLGGG.....DYFCPT...CKIK.....
 1c1|Glyma.01G179800_176-228 VWHPE.....FCCHACH.....LPITDYEFSSNNRPYHKAC.....
 1c1|Glyma.11G062400_192-244 VWHPE.....FCCHACH.....LPITDYEFSSNNRPYHKAC.....
 1c1|Glyma.02G059900_158-214 YWHPE.....FCCHACK.....LPITDYEFSSGNRRYHKSCYKELH.....
 1c1|Glyma.16G142700_157-213 YWHPE.....FCCHACK.....LPITDYEFSSGNRRYHKSCYKELH.....
 1c1|Glyma.12G160000_164-201 YWHPE.....FCCHACK.....LPITD.....
 1c1|Glyma.14G077800_125-177 FWHPE.....FCRCRACN.....LPISDYEFSTGNYPYHKSC.....
 1c1|Glyma.17G247700_120-172 FWHPE.....FCRCRACN.....LPISDYEFSTGNYPYHKSC.....
 1c1|Glyma.02G251800_176-228 YFHPN.....FCRCHSCG.....YPIITEREFSLGKHPYHKSC.....
 1c1|Glyma.14G065000_141-193 YFHPN.....FCRCHSCG.....YPIITEREFSLGKHPYHKSC.....
 1c1|Glyma.02G253700_47-99 AYHKA.....CFKCSHCE.....GTLKLSNYSSMEGVLYCKPHNEQLF.....
 1c1|Glyma.18G030900_10-66 AYHKA.....CFRCSHCK.....GTLKLSNYSSMEGVLYCKPHNEQLF.....
 1c1|Glyma.05G205800_10-66 AYHKN.....CFRCSHCN.....GLLAISNYSSTEGVLYCKVHFEQLF.....
 1c1|Glyma.08G012700_10-66 AYHKN.....CFRCSHCN.....GLLAISNYSSTEGVLYCKVHFEQLF.....
 1c1|Glyma.03G013900_10-66 TYHKN.....CFKCSHCK.....GCLTMSTYSSMDGILYCKTHFEQLF.....
 1c1|Glyma.07G073600_10-66 PYHKN.....CFKCSHCK.....GCLTMCTYSSMDGILYCKTHFEQLF.....
 1c1|Glyma.09G261800_10-66 PYHKN.....CFRCSHCK.....GCLTMSTYSSMDGVLYCKPHFEQLF.....
 1c1|Glyma.18G230400_10-66 PYHKN.....CFRCSHCK.....GYLTMNTYSSMDGVLYCKPHFEQLF.....
 1c1|Glyma.04G179800_24-80 IYHKS.....CFRCYHCK.....GTLKLSNYCSSFEGVLYCKPHFDQLF.....
 1c1|Glyma.05G034700_11-67 VYHKS.....CFRCHHCK.....GTLKLSNYCSSFEGVLYCKPHFHQLF.....
 1c1|Glyma.10G114300_10-49 IYHKS.....CFRCYHCK.....GTLKNT.....P.....
 1c1|Glyma.20G085200_10-49 IYHKS.....CFRCYHCK.....GTLKNN.....P.....
 1c1|Glyma.04G046200_109-164 PYHKS.....CFKCTHGG.....CVISPSNYIAHEGKLYCKHHHIQL.....
 1c1|Glyma.06G047000_109-164 PYHKS.....CFKCTHGG.....CVISPSNYIAHEGKLYCKHHHVQL.....
 1c1|Glyma.17G234700_109-164 PYHKS.....CFKCHGG.....CVISPSNYIAHEGKLYCKHHHVQL.....
 1c1|Glyma.10G256600_111-167 PYHKG.....CFKCTYGG.....CTVSSNFITHEGKLYCKHHHIQLF.....
 1c1|Glyma.06G185000_110-162 SYHKA.....CFRCTHGG.....CVISPSNYVAHEHRLYCRHH.....
 1c1|Glyma.17G092600_110-166 SYHKS.....CFRCTHGG.....CVISPSNYVAHEHRLYCRHHHTQLF.....
 1c1|Glyma.11G226400_108-164 AYHKS.....CFKCSHGG.....CPIITPSNYAALEGVLYCKHHFSQLF.....
 1c1|Glyma.14G062700_108-164 AYHKS.....CFKCSHGS.....CPIITPSNYAALEGVLYCKHHFSQLF.....
 1c1|Glyma.14G112700_1508-1555 LIRVH....QACYGVSSLPK.....KSSWC...P...CR.....
 1c1|Glyma.13G253900_326-371 .LCKQ.....SIMKLSKNS.....TRTFKCP...Y...C.....
 1c1|Glyma.13G273500_171-204 .YEKK.....VIMQYLKS.....KQHQCP...I.....

Human_c-Cbl

Human_c-Cbl
consensus
lcl|Glyma.09G103000_21-70
lcl|Glyma.15G275000_20-69
lcl|Glyma.04G067900_40-89
lcl|Glyma.06G069600_30-98
lcl|Glyma.13G202500_20-69
lcl|Glyma.02G080900_38-87
lcl|Glyma.16G165900_30-96
lcl|Glyma.05G187300_39-88
lcl|Glyma.08G145600_39-88
lcl|Glyma.10G223500_41-90
lcl|Glyma.02G205800_37-86
lcl|Glyma.17G072200_27-95
lcl|Glyma.04G153700_37-86
lcl|Glyma.06G225500_37-86
lcl|Glyma.04G142700_37-86
lcl|Glyma.06G225400_46-117
lcl|Glyma.06G316800_40-89
lcl|Glyma.09G051100_38-87
lcl|Glyma.15G157100_38-87
lcl|Glyma.08G088400_32-81
lcl|Glyma.08G302500_39-88
lcl|Glyma.18G117100_39-88
lcl|Glyma.04G063800_9-58
lcl|Glyma.06G065000_6-58
lcl|Glyma.05G160000_385-436
lcl|Glyma.08G117500_6-58
lcl|Glyma.12G017600_131-178
lcl|Glyma.02G090900_13-60
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lcl|Glyma.18G242400_64-112
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lcl|Glyma.05G010700_54-89
lcl|Glyma.17G118400_55-107
lcl|Glyma.02G310000_267-316
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lcl|Glyma.13G005300_253-302
lcl|Glyma.20G064600_253-302
lcl|Glyma.11G147100_266-315
lcl|Glyma.12G068000_266-315
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lcl|Glyma.13G326500_259-308
lcl|Glyma.10G051800_240-289
lcl|Glyma.13G139200_260-309
lcl|Glyma.13G213600_217-265
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lcl|Glyma.18G000200_236-278
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lcl Glyma.15G268100_109-150
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lcl Glyma.10G289100_82-127
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lcl Glyma.16G006200_74-120
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