

At_GGCT2;2	MVMWVFGYGSGLVWNPGFHYDEKVLGFIKGYKRVFDLACIDHRGTPEHPARTCTLEKAEAA	60
Br_GGCT2;2	MVMWVFGYGSGLVWNPGFHYDEKVLGFIKGYKRVFDLACIDHRGTPEHPARTCTLEIDEEA	60
At_GGCT2;1	MVLWVFGYGSGLIWNPGFDFDEKLIGYIKDYKRVFDLACIDHRGTPEHPARTCTLEQSTGA	60
Br_GGCT2;1	MVLWVFGYGSGLIWNPGFDFDEKLIGYIKDYKRVFDLGCIDHRGTPEHPARTCTLEESTGA	60
	.:***.:*****.:***.:*:**.:*****.:*****.*	
At_GGCT2;2	ICWGTAFCVRGGPEKERLAMEYLERRECEYDLKTSVDFYKEDDP---LKPAVTGVIVFSTS	117
Br_GGCT2;2	ICWGTAFCVRGGPEEERLAMEYLERRECEYDLKTCVDFYKEDDP---LNPAVTGVMVFSTS	117
At_GGCT2;1	ICWGAAYCVRG GPEKEKLAMEYLER RECEYDSKTLVEFYTENDT---STPIVTGVIVFSTS	117
Br_GGCT2;1	ICWGAAYCVRGGPEKEKLAMEYLEGRECEYDSKTLVEFYTETDTTKQSKPILTGIVFSTS	120
	****.:*:*****.:*:***** ***** ** *:**.* *. . * :***:****	
At_GGCT2;2	TPDKVSNKYLLGPAPLEDMARQIATANGPCGNNRDYLFLEKAMHDIGHEEDYVIELANE	177
Br_GGCT2;2	TPDKVSNKYLLGPAPLEDMARQIATANGPCGNNRDYLFLEKAMHDIGHEEYVIELANE	177
At_GGCT2;1	TPDKVSNKYLLGPAPLEEMARQIATASGPCGNNREYLFKLEKAMFDIEHEEYVIELANE	177
Br_GGCT2;1	TPDKLSNKYYLGPAPLEEMAMQIATASGPCGNNREYLFKLEKAMHDIEHEDEYVIELANE	180
	****.:*****.:** *****.:*** *****.* ** :*:*****	
At_GGCT2;2	VRKVLAE SSTKKVTPVKESRASRVANK--SKNNVPTAHQILPHHPEAVATTI	227
Br_GGCT2;2	VRKVLAE----KVSPVKESRASPVAKK--SKSNVPTAHQILPHQPEAVATTL	223
At_GGCT2;1	VRKQLDLP--EEVKALLKPIVSHVSVK--SQAHVSTRQRVFAS-----	216
Br_GGCT2;1	VRKHLDLP--KEVKALLKPVSVRSIKSHSQAHASTLQRVFA-----	220
	*** * :*...: .. .* *: * *: :...* :::..	

Additional file 4: Figure S4 Amino acid sequence alignment of GGCT2;1 and GGCT2;2 in *Brassica rapa* (Br) and *Arabidopsis thaliana* (At). The multiple sequence alignment was made using CLUSTAL 2.1. Sequence in red represents the peptide sequence used to make an antiserum reactive against the GGCT protein.