

	10	20	30	40	50	60	70	80
<i>A. thaliana</i> (VTE4)	-----	-----M KATLAAPSSL	TSLPYRTNSS	FGSKSLLFR	SPSSSSSVSM	TTTRGNVAVA	AAATST-EAL	
<i>G. max</i> (γ-TMT1)	-----	-----	-----	-----	-----	-----M	AGKEEKEGKL	
<i>G. max</i> (γ-TMT2)	-----	-----MATVV	RIPTISCIHI	HTFRSOSPRT	FARIRVGPRS	WAPIRASAAS	SERGEIVLEQ	KPKKDDKKKL
<i>G. max</i> (γ-TMT3)	-----	-----	-----	-----	-----	-----MSVEQK	AAGKEEKGKL	
<i>B. napus</i>	-----	-----M KATLAPSSLI	SLPRHKVSSL	RSPSLLOSO	RPSSALMTTT	TASRGSAVAT	AAATSSFEAL	
<i>P. frutescens</i>	MAEAVTPGIC	TTGWRRGGVH	APTYNISIKP	ATALLVGCTT	KTKSITSFST	DSLRTGRRAR	RPTMSLNAAA	AEMETEMETL
<i>H. annuus</i>	-----	-----	-----	-----	-----	-----MATTAVGVS	ATPMTEKLT	ADDQQQQKL
<i>Z. mays</i>	-----	-----MAH	AALLHCSQSS	RSLAACRRGS	HYRAPSHVPR	HSRRLRRAVV	SLRPMASSTA	QAPATAPPGL
<i>C. reinhardtii</i>	-----	-----	-----MPSTALQGH	TLPSSSACLG	RATRHVCRVS	TRSRRAVTVR	AGPLETLVKP	LTTLGKVSDDL
<i>Synechococcus sp.</i>	-----	-----	-----	-----	-----	-----	-----	-----MGAQL

	90	100	110	120	130	140	150	160
<i>A. thaliana</i> (VTE4)	RKGIAEFYNE	TSGLWEEIWG	DHMHGIFYDP	DSSVQLSDSG	HKEAQIRMIE	ESLRFAGVTD	-EEEEKKIKK	VVDVGCIGIG
<i>G. max</i> (γ-TMT1)	QKGIAEFYDE	SSGLWENIWG	DHMHGIFYDP	DSTVLSLD--	HRLAQIRMIQ	ESLRFAS-VS	-EERSKWPKS	IVDVGCIGIG
<i>G. max</i> (γ-TMT2)	QKGIAEFYDE	SSGLWENIWG	DHMHGIFYDS	DSTVLSLD--	HRAAQIRMIQ	ESLRFAS-VS	-EERSKWPKS	IVDVGCIGIG
<i>G. max</i> (γ-TMT3)	QKGIAEFYDE	SSGIWENIWG	DHMHGIFYDP	DSTVSVSD--	HRAAQIRMIQ	ESLRFASLLS	-ENPSKWPKS	IVDVGCIGIG
<i>B. napus</i>	REGIAEFYNE	TSGLWEEIWG	DHMHGIFYDP	DSSVQLSDSG	HREAQIRMIE	ESLRFAGVT-	--EEKKIKR	VVDVGCIGIG
<i>P. frutescens</i>	RKGIAEFYDE	SSGVWENIWG	DHMHGIFYEP	AADVSLSD--	HRAAQIRMIE	ESLRFASFSP	-ITTTEKPKN	IVDVGCIGIG
<i>H. annuus</i>	KKGIAEFYDE	SSGMWENIWG	EHMHGYYNS	DDVVELSD--	HRSAQIRMIE	QALTFASVS-	-DDLEKKPKT	IVDVGCIGIG
<i>Z. mays</i>	KEGIAFLYDE	SSGLWENIWG	DHMHGIFYDS	SEAASMD--	HRAAQIRMIE	EALAFAGVPA	SDDPEKTPKT	IVDVGCIGIG
<i>C. reinhardtii</i>	KVGIANFYDE	SSELWENMWG	EHMHGYYPK	GAPVKSNNQ-	---AQIDMIE	ETLKVAGVT-	-----QAKK	MVDVGCIGIG
<i>Synechococcus sp.</i>	YQQREFYDA	SSPLWESIWG	EHMHGIFYGL	GGTERLNRRQ	---AQIELIE	EFLAWGKVE-	-----QVGN	FVDVGCIGIG

	170	180	190	200	210	220	230	240
<i>A. thaliana</i> (VTE4)	SSRYLASKFG	AECI-GITLS	-PVQAKRAND	LAAAQSLAHK	ASFQVADALD	QPFEDGKFIDL	VWSMESGEHM	PDKAKFVKEL
<i>G. max</i> (γ-TMT1)	SSRYLAKKFG	ATSV-GITLS	-PVQAQRANA	LAAAQGLDDK	VSFEVADALK	QPFDPGKFIDL	VWSMESGEHM	PDKAKFVGEL
<i>G. max</i> (γ-TMT2)	SSRYLAKKFG	ATSV-GITLS	-PVQAQRANA	LAAAQGLADK	VSFQVADALQ	QPFSDGQFIDL	VWSMESGEHM	PDKAKFVGEL
<i>G. max</i> (γ-TMT3)	SSRYLAKKFG	ATSV-GITLS	-PVQAQRANS	LAAAQGLADK	VSFEVADALK	QPFDPGKFIDL	VWSMESGEHM	PDKAKFVGEL
<i>B. napus</i>	SSRYLASKFG	AECI-GITLS	-PVQAKRAND	LAAAQSLSHK	VSFQVADALE	QPFEDGIFIDL	VWSMESGEHM	PDKAKFVKEL
<i>P. frutescens</i>	SSRYLARKYG	AKLSRAITLS	SPVQAQRAQQ	LADAQGLNGK	VSFEVADALN	QPFPEGKFIDL	VWSMESGEHM	PDKKKFVNEL
<i>H. annuus</i>	SSRYLARKYG	AECH-GITLS	-PVQAERANA	LAAAQGLADK	VSFQVADALN	QPFDPGKFIDL	VWSMESGEHM	PDKLKFVSEL
<i>Z. mays</i>	SSRYLAKKYG	AQCT-GITLS	-PVQAERGNA	LAAAQGLSDQ	VTLQVADALE	QPFDPGQFIDL	VWSMESGEHM	PDKRKFVSEL
<i>C. reinhardtii</i>	SSRYISRKFG	CTSN-GITLS	-PKQAARANA	LSKEQGFGDK	LQFQVGDALA	QPFEGAFIDL	VWSMESGEHM	PDKKKFVSEL
<i>Synechococcus sp.</i>	STLYLADKEN	AQGV-GITLS	-PVQANRAIA	RATEQNLDQ	VEFKVADALN	MPFRDGEFIDL	VWTTLESGEHM	PNKRQFLOEC

	250	260	270	280	290	300	310	320
<i>A. thaliana</i> (VTE4)	VRVAAPGGRI	IIIVTWCHRN	L	SAGEEALQPW	EQNILDKICK	TFYLPWCST	DDYVNLLOSH	SLQDIKADW
<i>G. max</i> (γ-TMT1)	ARVAAPGATI	IIIVTWCHREL	GPDEQSLHPW	EQDLLKKICD	AYYLPWCSTA	SDYVKLLQSL	SLQDIKSEDW	SRFVAPFWPA
<i>G. max</i> (γ-TMT2)	ARVAAPGATI	IIIVTWCHREL	GPDEQSLHPW	EQDLLKKICD	AYYLPWCSTA	SDYVKLLQSL	SLQDIKSEDW	SRFVAPFWPA
<i>G. max</i> (γ-TMT3)	ARVAAPGGTI	IIIVTWCHRD	GPDEQSLLPW	EQDLLKKICD	SYYPWCST	SDYVKLLESL	SLQDIKSADW	SPFVAPFWPA
<i>B. napus</i>	VRVAAPGGRI	IIIVTWCHRN	L	SPGEEALQPW	EQNLLDRICK	TFYLPWCST	SDYVDLLQSL	SLQDIKADW
<i>P. frutescens</i>	VRVAAPGGRI	IIIVTWCHRN	L	SPSEESLRQE	EKDLLNKICS	AYYLPWCST	ADYVKLLDSL	SMEDIKSADW
<i>H. annuus</i>	TRVAAPGATI	IIIVTWCHRD	NPEKSLRPE	EKKILNKICS	SFYLPWCST	ADYVKLLESL	SLQDIKSADW	SGNVAPFWPA
<i>Z. mays</i>	ARVAAPGGTI	IIIVTWCHRN	L	DPSETSLKPD	ELSLLRRICD	AYYLPWCSP	SDYVNIKSL	SLQDIKSADW
<i>C. reinhardtii</i>	ARVCAPGGTV	IVVTWCHRVL	GPGEAGLRD	EKALLDRINE	AYYLPWCSP	ADYQKLFEAQ	GLTDIQTRDW	SQEVSPFWGA
<i>Synechococcus sp.</i>	TRVLKPGGKL	LMATWCHRPT	DSVAGTITPA	BQKHLEDLYR	IYCLPYVISL	PDYQAIATEC	GLENIETADW	STAVAPFWDO

	330	340	350	360	370
<i>A. thaliana</i> (VTE4)	VIRTALTWKG	LVSLLRSGMK	SIKALTMP	L	MIEGYKKGVI
<i>G. max</i> (γ-TMT1)	VIRSAITWNG	LTSLLRSGLK	AIKALAMPL	MIKGYKKNLI	KFAIITCRKP
<i>G. max</i> (γ-TMT2)	VIRSAITWNG	LTSLLSSQK	TIKALAMPL	MIEGYKKNLI	KFAIITCRKP
<i>G. max</i> (γ-TMT3)	VIRTALTWNG	LTSLLRSGLK	TIKALAMPL	MIKGYKKNLI	KFSIITCRKP
<i>B. napus</i>	VIRTALTWKG	LVSLLRSGMK	SIKALTMP	L	MIEGYKKGVI
<i>P. frutescens</i>	VIKSALTWKG	ITSLLRSGWK	TIRGAMVMP	L	MIEGYKKGVI
<i>H. annuus</i>	VIKTALSWK	ITSLLRSGWK	SIRGAMVMP	L	MIEGFKKDVI
<i>Z. mays</i>	VIKSALTWKG	FTSLLTWGK	TIRGAMVMP	L	MIQGYKKGVI
<i>C. reinhardtii</i>	VIATALTSEG	LAGLAKAGWT	TIKALVMP	L	MAEGFRRLGL
<i>Synechococcus sp.</i>	VIDSALTPEA	VFGILKAGWQ	TLOQALALD	L	MKSGFRRLGL