

Supplementary Table S2. Amino acid composition of CmoGS and CsaGS proteins

ID	Type	pI	Molecular	Amino	GRAVY	Instability	Predicted	Amino acid composition
			weight	acid				
			(average):	length		index	localization	
CmoCh08G004920	GS1	6.32	42132.78	387	-0.187	36.92	cytosol	MNCLLELGFSLSDAVLLSRLFCRLLSHQAPFFHNASLSLSLSLSFAPAFSSASLAMSLLSDLINLNLTDSTDKIIAEYVWIGGSGLDLRSKARTLPGPVTDPAKLPKWNYDG
								GAHTNYSTKSMRNDGGIDVIKKAIEKLGLRHKLHIAAYGEGNERRLTGRHETADINTFSWGVANRGASVRVGRDTEQAGKGKLL
CmoCh14G017140	GS2	6.48	47702	432	-0.408	45.01	chloroplast	MAQILAPSVQWQLRTKQTSMSASSITPKMWSSLLLKQSSKVAVKSSAKFRVLALKSDGSTINRMEELNLNDVTPYTDKIIAEYIWIGGSGIDLRSKSRITISKPVEHPSELPKWN
								GAGCHTNYSTKSMREEGGFDVIKKAILNLSLRHNEHISAYGEGNERRLTGKHETASINTFSWGVANRGCSIRVGRDTEKQKGKGYLEDRRPASNMDPYVVTSLLAETTLWE
CmoCh15G007570	GS1	5.88	39328.3	356	-0.427	40.78	cytosol	MSSLSDLINLSLCDYTDK VIAEYIWVGSGGKDVRSKARTISEYVSDPSKLPKWNYDGSSTGQAPGEDSEVILYPQAIFRDPFRRGNNILVICDSYTPAGEIPTNKRHAAAKIFS
								LWGVANRGASIRVGRDTEKSGKGYFEDRRPASNMDPYTVTSMIAETTILWKP
CmoCh01G003900	GS1	5.53	37572.43	340	-0.376	41.84	cytosol	MSVLSDLVNLDSLSDTDK VIAEYIWIGGSGMDLRSKARTLCGPVSDPSDVPKWSYDGSSTGQASGEDSEVILYPQAIFRDPFRRGNNILVLCDAYTAAGEIPTNKRDAAAKIFS
								GRDTEKKGKGYFEDRRLPSNMDPYVATAMIAETTILWKP
CmoCh17G009640	GS1	6.33	41914.05	381	-0.438	38.63	cytosol	MSLLSDLINLNLTDTEKIIAEYVWIGGSGLDLRSKARTLPGPVTDPAKLPKWNYDGSSTNQATGDNSEVILHPQAVFKDPFRRGNNILVMCDAYTSAGEIPTNTRFNAAKIFS
								NFSWGVANRGASVRVGRDTEKAGKGKVLRGSKASFEHGLSRGDFHDRRNNHSVEALNRLNRTTALWLQFVSPFDAFNCS
CmoCh06G014450	GS2	8.28	52968.5	479	-0.311	45.91	chloroplast	MVVGSSLYLYLYPAIFIPLFIRHYRRRNPLLGLIFLPLSGTSLVQEMAQILAPSTQCQLRTKQSSMGGSPITPKMWSSLLMKQSKKGGVKSSAKFRVLALKSDGSTINRMEDL
								EFQVGPSVGIEAGDHIWCARYILERITEQAGVVLSLDPKPIEGDWNGAGCHTNYSTKSMREEGGFEVIKKAILNLSLRHKEHISAYGEGNERRLTGKHETASINSFSWGVANR
CmoCh14G008450	GS1	5.7	39244.13	356	-0.436	38.52	cytosol	MSLLSDLVNLDSLSDTEKIIAEYIWIGGSGLDIRSKARTLSGPVSDPSELPKWNYDGSSTGQAPGKDSEVILHPQAIFRDPFRRGNNILVVCDAYTPAGEIPTNKRHAAAKIFS
								SWGVANRGASVRVGRDTEKEGKGYFEDRRPASNMDPYVVTSMIAETTILWKP
Csa3G150160	GS2	7.62	47777.19	432	-0.434	46.09	chloroplast	MAQILAPSTQWQLRTKLTPMSSSPITPKMWSSILLKQNKKGAVKSSSKYRVLSVRSEGGTINRMEDLLNLNDVTPYTDKIIAEYIWIGGSGIDLRSKSRITISKPVEHPSELPKWN
								AGCHTNYSTKSMREEGGFEVIKKAILNLSLRHKEHISAYGEGNERRLTGKHETASINTFSWGVANRGCSIRVGRDTEKQKGKGYLEDRRPASNMDPYVVTSLLAETTLWEP
Csa3G304140	GS1	5.82	39276.32	356	-0.403	41.35	cytosol	MSLLSDLVNLNLSLSDTEKIIAEYIWIGGSGMDLRSKARTLSGPVSDPSKLPKWNYDGSSTGQAPGEDSEVILYPQAIFRDPFRRGNNILVVCDTYTPAGEIPTNKRHAAAKIFS
								FSWGVANRGASVRVGRDTEKEGKGYFEDRRPASNMDPYVVTSMVAETTILWKP
Csa5G410730	GS1	5.59	39066.87	356	-0.419	39.02	cytosol	MSSLSDLINLDCDFTDKIIAEYIWVGSGGKDVRSKARTISGPISDPSKLPKWNYDGSSTGQAPGQDSEVILYPQAIFRDPFRRGNNILVICDSYTPGGEAIPNKRHGAAKIFS
								FLWGVANRGASIRVGRDTEKAGKGYFEDRRPASNMDPYTVTSMIAETTILWNP
Csa7G420690	GS1	5.77	39118.04	356	-0.442	41.13	cytosol	MSLLSDLINLDLTNTTEKIIAEYVWIGGSGLDLRSKARTLPGPVTDPAKLPKWNYDGSSTNQAPGDDSEVIIPQAVFKDPFRRGNNILVMCDAYTPAGEIPTNKRFNAAKIFS
								TFSWGVANRGASVRVGRDTEKAGKGYFEDRRPASNMDPYVVTSMIAETTILGKP

