

Supplementary Materials: Plastoglobule-Targeting Competence of a Putative Transit Peptide Sequence from Rice Phytoene Synthase 2 in Plastids

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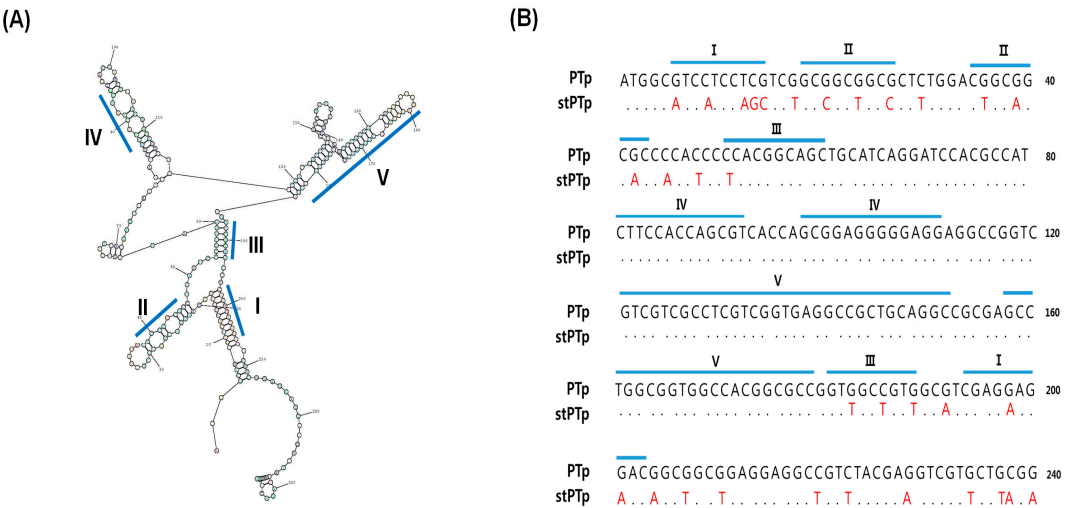


Figure S1. Predicted secondary DNA structures of the *PTp* and *stPTp* sequences. **(A)** Possibility of DNA secondary structures in the *PTp* sequence as predicted by a secondary structure prediction server (available online: <http://rna.urmc.rochester.edu/RNAstructureWeb/Servers/Predict1/Predict1.html>). Parameters included DNA as the nucleic acid type and selection of the MaxExpect method, which is thought to have higher fidelity in structure prediction. **(B)** Alignment of the *PTp* and *stPTp* sequences. The DNA sequences modified in *stPTp* are shown in red. Regions indicated by the five blue lines possess a high probability (>60) of secondary structure in both **(A)** and **(B)**.

Table S1. List of primers used in this study.

Primers for Cloning	Sequence (5'-3')
attB1- <i>NotI</i> -mCherry-fwd	AAAAAGCAGGCTGCGGCCGCATGGTGAGCAAGGGCGAGGAGGA
attB2-mCherry-rev	AGAAAGCTGGGTCTTGTACAGCTCGTCCATGCCGCCGGTG
<i>NotI</i> -OsPSY2-fwd	AAGCAGGCTGCGGCCGCATGGCGTCCTCCTCGTCGG
<i>NotI</i> -OsPSY2-rev	ACCATGCGGCCGCCTGATGCAACTGCCGCTCTTGCATAAG
attB1-OsPSY2(Δ PTp)-mCherry-fwd	GGGGACAAGTTTGTACAAAAAAGCAGGCTAACAATGGCCCAGGCGGCGCTGGTGGAGGAG
attB2-OsPSY2(Δ PTp)-mCherry-rev	GGGGACCACTTTGTACAAGAAAGCTGGGTTTACTTGTACAGCTCGTCCATGC
attB1- <i>NdeI</i> -sGFP-fwd	AGGCTTCAACAATGGCCCATATGGTGAGCAAGGGCGAGGAGCTGTTACCGGGGTGGTGCCCATC
attB2-sGFP-rev	GGGGACCACTTTGTACAAGAAAGCTGGGTCTTATTACTTGTACAGCTCGTCCATGCCGTG
attB1-PTp-fwd	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCAACAATGGCCGCGTCCTCCTCGTCGGCG
PTp-sGFP_overlaid-rev	GGTGAACAGCTCCTCGCCCTTGCTCACCATCCGCAGCACGACCTCGTAGACGGCCTCCT
PTp-sGFP_overlaid-fwd	GAGGCCGTCTACGAGGTCTGCTGCTGCGGATGGTGAGCAAGGGCGAGGAGCTGTTACCGGG
attB2-sGFP-rev	GGGGACCACTTTGTACAAGAAAGCTGGGTCTTATTACTTGTACAGCTCGTCCATGCCGTG
<i>NdeI</i> -stPTp-fwd	GAATTCGATCATATGGCATCATCCAGCTCTGCCG
<i>NdeI</i> -stPTp-rev	CCGCGAATTCAGTAGTGATCATATGGGTACCTC
Primers for qRT-PCR	Sequence (5'-3')
sGFP chimera transcript	
sGFP-fwd	CTGCCCCGACAACCACTACCTGAG
sGFP-rev	GGCGGCGGTCACGAACT
Internal reference transcript	
OsUbi (AK061988)-fwd	GAAGTAAGGAAGGAGGAGGA
OsUbi (AK061988)-rev	AAGGTGTTCAAGTTCCAAGG