



Figure S1. Multiple sequence alignment of deduced amino acid of GPPS.SSU1 (A), GPPS.SSU2 (B), homodimeric GPPS (C) and GGPPS (D) like proteins from wintersweet and other plants. Identical amino acids are shaded, and gaps are indicated by dots. The conserved aspartate-rich region motif DDX₂₋₄D (Red solid line) and CxxxC motif (black solid line) are underlined. The truncation of *Cp*GPPS.SSU1 and *Cp*GPPS.SSU2 are marked with black arrowhead, while *Cp*GGPPS1 and *Cp*GGPPS2 were marked with green and red arrowheads, respectively.

Table S1: Protein sequence homology of CpGPPS/GGPPS

Gene	Sequence Similarity
<i>CpGPPS.SSU1</i>	<i>Litsea cubeba</i> 54.97%, <i>Quercus lobata</i> 48.71%, <i>Antirrhinum majus</i> 43.96%
<i>CpGPPS.SSU2</i>	<i>Populus trichocarpa</i> 62.61%, <i>Salvia miltiorrhiza</i> 64.09%
<i>CpGGPPS2</i>	<i>Litsea cubeba</i> GGPPS 79.17%, <i>Humulus lupulus</i> GPPS.LSU 69.02%
<i>CpGGPPS1</i>	<i>Litsea cubeba</i> GGPPS 60.94%, <i>Humulus lupulus</i> GPPS.LSU 65.02%
<i>CpGPPS</i>	<i>Cathaeanthus roseus</i> GPPS 80.48%, <i>Phoenix dactylifera</i> 79.72%

Table S2: List of primers used in this study

Gene	Function	Primer	
		Forward Primer (5' to 3')	Reverse Primer (5' to 3')
<i>CpGPPS.SSU1</i>	Gene Cloning	ATGGCAGCAACTTTCAGTCATTTG	TTATTTCTCATCCAAGCACCCATCT
	Real-Time PCR	GAGGTGGAGAACTGAGGAGGTA	ATCTGCAATACTGATGATGGGAC
	Localization Study	cccgggATGGCAGCAACTTTCAGTCATTTG	gaattcTTTCTCATCCAAGCACCCATCT
	Y2H Study	catatgTGGGCGACCATAAATGGAG	gaattcTTATTTCTCATCCAAGCACCCATC
<i>CpGPPS.SSU2</i>	Gene Cloning	ATGGCCTTCTCAGCAGGACCT	TCAAATTCTCCCACCACTCCCA
	Real-Time PCR	CGAGAAGGCGAAGAAGGAAT	CTCCCACCACTCCCAACATC
	Localization Study	cccgggATGGCCTTCTCAGCAGGACCT	gaattcAATTCTCCCACCACTCCCA
	Y2H Study	gaattcCCATCTGAGTTCGACCTCCGA	ggatccTCAAATTCTCCCACCACTCCC
<i>CpGGPPS1</i>	Gene Cloning	ATGGGTTTTTCGACGAGTTTGG	TAAACAATTTGGTGGGCCATG
	Real-Time PCR	TCTTCTCAAAGATCGCCATTTC	CAGTCCGATTGCCCTGTCCA
	Localization Study	cccgggATGGGTTTTTCGACGAGTTTGG	gaattcAACAATTTGGTGGGCCATG
	Y2H Study	gaattcGGAAAAAACCAGATACCCAA	ggatccTTCCCTTCTGGACCATGTAGC
<i>CpGGPPS2</i>	Gene Cloning	ATGGCTTCACTTGCTTTGGT	CCATTTGGCTATCTAACAGGAAC
	Real-Time PCR	ACCCATCTATGTTTCCCCC	TCCAGAAAGGGGTCTTCCG
	Localization Study	cccgggATGGCTTCACTTGCTTTGGT	gaattcGTTCTGTCTGTAAGCAATATA
	Y2H Study	gaattcGAAGAAGAGAAAACCCAGATGC	ggatccCCATTTGGCTATCTAACAGGAACA
<i>CpGPPS</i>	Gene Cloning	ATGCTTCTGAGACGGGCC	CTAAGAAATAAAACATGGAATAGAA
	Real-Time PCR	GGTTTTTGGTGGCAGAGGAAG	CAGCAACCACCATTGACCGC
	Localization Study	cccgggATGCTTCTGAGACGGGCC	gaattcCTCTATTGCAAATAATATTGGAGC