Figure S1. Distribution of the identified 13 *IbPYLs* in *Ipomoea batatas* (A), 14 *ItfPYLs* in *Ipomoea trifida* (B), 14 *ItbPYLs* in *Ipomoea triloba* (C) across their genomes. The chromosome numbers are indicated to the left of each chromosome, and all chromosomes are drawn to scale based on their actual physical lengths.

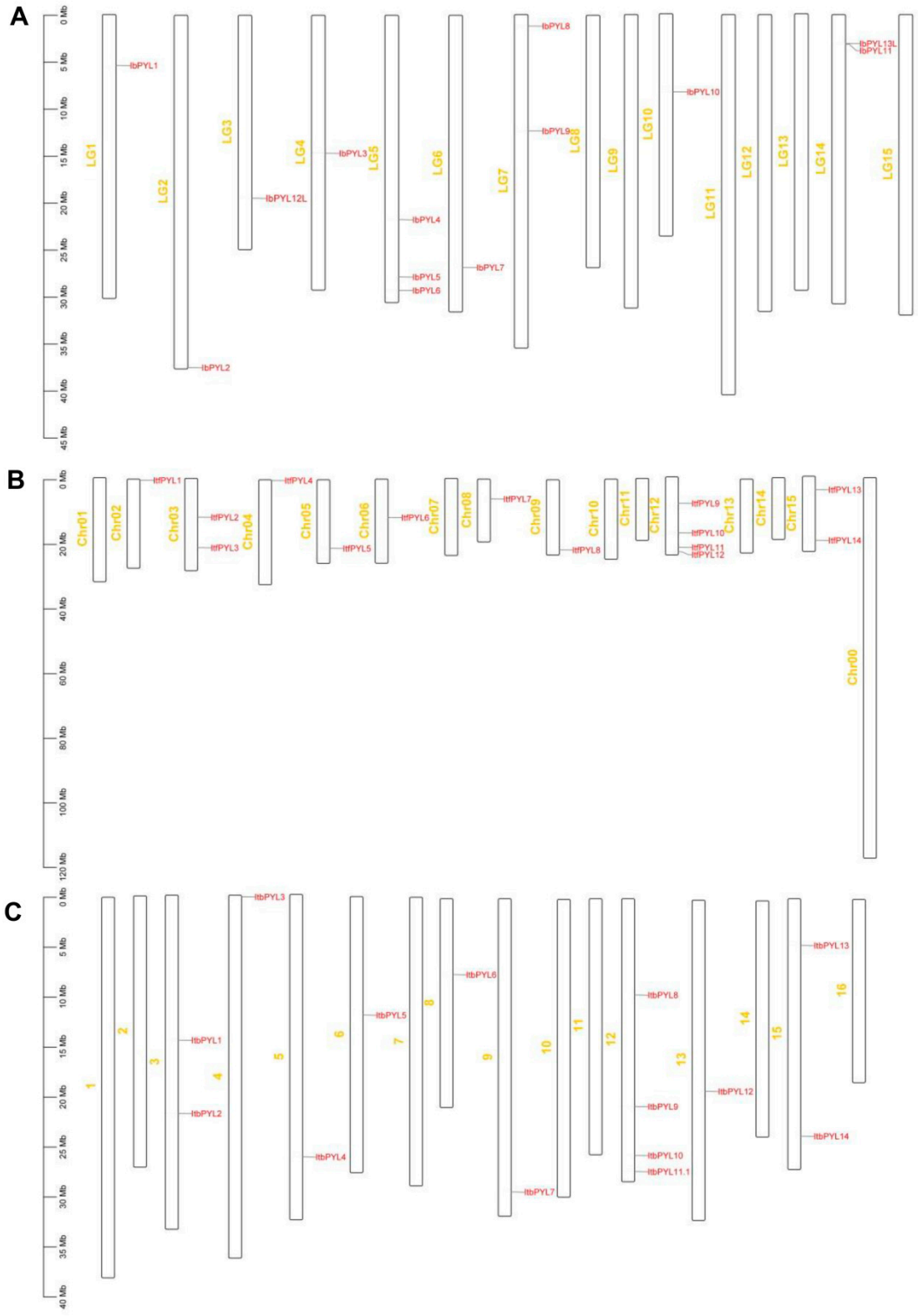


Table S1. The amino acid sequences of reported PYLs identified in the genomes of six plant species including *Arabidopsis*, rice, wheat, maize, barley and sorghum.

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Table S2. The nucleotide and amino acid sequences of PYLs identified in the genomes of three *Ipomoea* species.

Nucleotide sequences

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Amino acid sequences

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Table S3. Specific primer sequences used for qRT-PCR analysis.

Primer code	Primer sequences (5' →3')	Application
IbARF-Q-F	CTTTGCCAAGAAGGAGATGC	Internal standard gene for qRT-PCR analysis
IbARF-Q-R	CTTGTCCTGACCACCAACA	
IbPYL1-Q-F	GATCTCTTGCTCACGCTTCAGA	qRT-PCR analysis
IbPYL1-Q-R	AGCAACTTAGATGTGGTTCCATAGAG	
IbPYL2-Q-F	CAGGATGGGAATGGGATTGC	
IbPYL2-Q-R	TTCAAGCAGTCTTCCCAATCTCA	
IbPYL3-Q-F	CTCTATGAGCAGTGACCCGAACC	
IbPYL3-Q-R	GGTACGAGTGGAACTGGGTGATC	
IbPYL4-Q-F	AGGTCTCAGAACGATTGGCAGT	
IbPYL4-Q-R	GTCACTCTACTCGCCTTCTATTGG	
IbPYL5-Q-F	CGGGGAATACTAAGGAAGAGAC	
IbPYL5-Q-R	ACGATGTTTTGATTATTCTTGCC	
IbPYL6-Q-F	CCATAGATCCTGTGTAAAGAGCCA	
IbPYL6-Q-R	GGAAGAGTAGCTATGAATGGTGTACC	
IbPYL7-Q-F	ACCGTCGTGGTGGAGTCGTA	
IbPYL7-Q-R	TCAATTCAAGCTAGCCGAGTTTC	
IbPYL8-Q-F	CAGTGATAGATGTTCGTTGAAGATTA	
IbPYL8-Q-R	GTTTGGTTACAAAACATCATACGAG	
IbPYL9-Q-F	TCCGAGAGGCTTGCTTTGC	
IbPYL9-Q-R	GCGTATATTCAAAAGCCCCAAGT	
IbPYL10-Q-F	CATCCCGAGTCCCAACTTCTAAT	
IbPYL10-Q-R	TCATCCTTGGTGTTCCCGTCT	
IbPYL11-Q-F	ACCTTCAAAAACTCGCATCCAT	
IbPYL11-Q-R	CGTTCGGTTGTATTATTACCACTATC	