

Supplementary Table S1. Growth status of *P. yunnanensis* seedlings of different grades in different months.

Month	Grade	Plant height	Ground diameter	Plant height increment	Average Plant height	Average ground diameter	N
January	A	6.83±0.05a	1.76±0.02a				
	B	5.07±0.02b	1.39±0.02b		5.23±1.47	1.44±0.75	1197
	C	3.54±0.04c	1.13±0.02c				
March	A	8.15±0.06a	3.05±0.05a	1.32			
	B	6.13±0.02b	2.59±0.03b	1.06	6.09±1.70	2.49±0.85	1151
	C	4.28±0.04c	1.91±0.03c	0.74			
May	A	9.74±0.08a	4.12±0.06a	1.59			
	B	7.29±0.03b	3.59±0.05b	1.16	7.47±1.95	3.50±1.78	1089
	C	5.23±0.05c	2.66±0.06c	0.95			
August	A	12.35±0.12a	6.21±0.10a	2.61			
	B	9.37±0.03b	5.75±0.08b	2.08	9.44±2.33	5.56±1.82	1060
	C	7.01±0.05c	4.72±0.10c	1.78			
December	A	13.86±0.13a	9.77±0.14a	1.51			
	B	10.76±0.03b	8.91±0.13b	1.39	10.84±2.40	8.75±2.72	1035
	C	8.39±0.05c	7.68±0.15c	1.38			

Supplementary Table S2. Pearson correlation between plant height and hormone content and expression quantity of different grades of *P. yunnanensis*

Hormone	Index	Plant height	Auxins	CTKs	ABA	JA	SA
Content	Plant height	1					
	Auxins	-0.809	1				
	CTKs	-0.809	1.000**	1			
	ABA	0.798	-1.000*	-1.000*	1		
	JA	0.399	0.216	0.216	-0.235	1	
	SA	-0.540	0.932	0.932	-0.938	0.556	1
Expression quantity	Plant height	1					
	Auxins	-0.876	1				
	CTKs	0.843	-0.998*	1			
	ABA	0.904	-0.998*	0.992	1		
	JA	-0.192	0.642	-0.690	-0.593	1	
	SA	0.077	0.414	-0.473	-0.356	0.964	1

Supplementary Table S3. Primers of differentially expressed genes qRT-PCR

Sequence number	Primer name	Forward sequence (5'→3')	Reverse sequence (3'→5')
1	PITA_05631	GCGATCAGACGCTGCACTTT	CAACTCCTCCGCGAGAACCT
2	PITA_28368	GGATGCTTGCAGTGTCTGCA	GCCACGCATATGTTTCCACC

3	PITA_28172	GTCGATCCAGTCGCTGAGCT	GGCAGTTTTTGCCTCAGCAT
4	PITA_27027	GCGCTGCAAAGCCTCATAAT	GCAACAGGCCATAGCTCCAC
5	PITA_14214	ACAGGCAGCCTTGCTAGTGC	TTTGGCTTTGCATGTACCCC
6	PITA_23129	CGTTCATCCTGTCTTTGCGC	CGAGAGCCACCCTCAACCTT
7	PITA_00012	AACGCGGTACCCATTCCAGT	CCATCCCCTTTTCCAACGAC
8	PITA_14341	GTTTTGAACTGACTCGCGGC	CAGGATTGGAGCGCTTGAAC
9	PITA_43709 (IR)	ATATGACGGCGTCTGTTCCG	AATCACCATGCGAAGAACCG

IR: internal reference gene.