

Supplementary Materials:

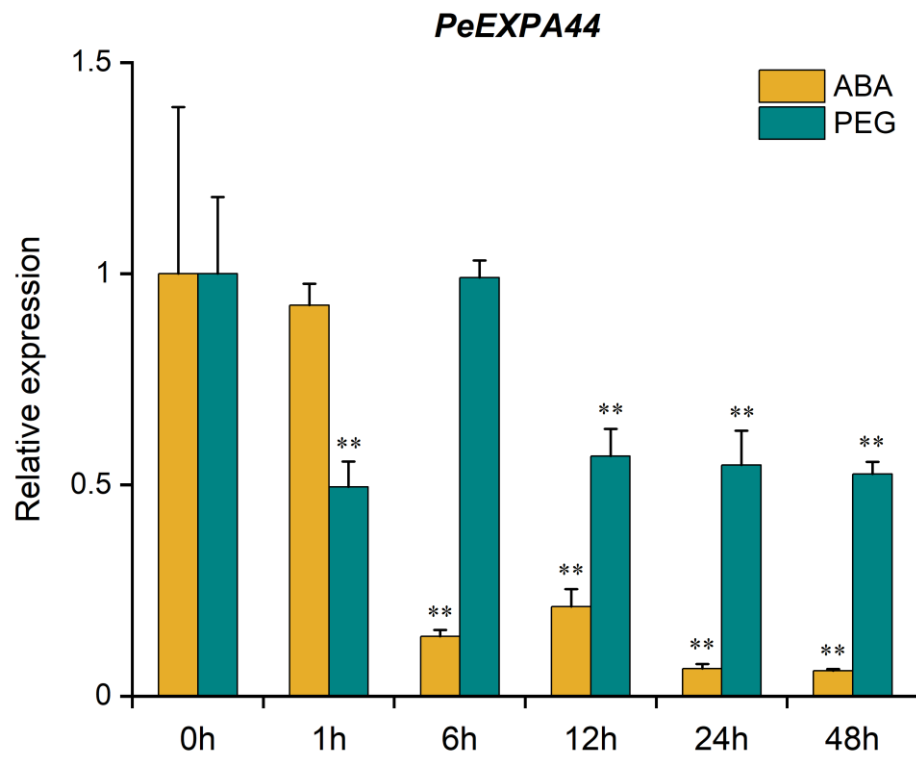


Figure S1 qRT-PCR expression analysis of *PeEXPA44* under ABA and PEG treatments. The expression levels of untreated (0 h) group were normalized to 1 as control. Error bars were obtained from three measurements. Statistically significant differences between the expression level of control group and treatment group were represented by asterisks. * $p < 0.05$; ** $p < 0.01$

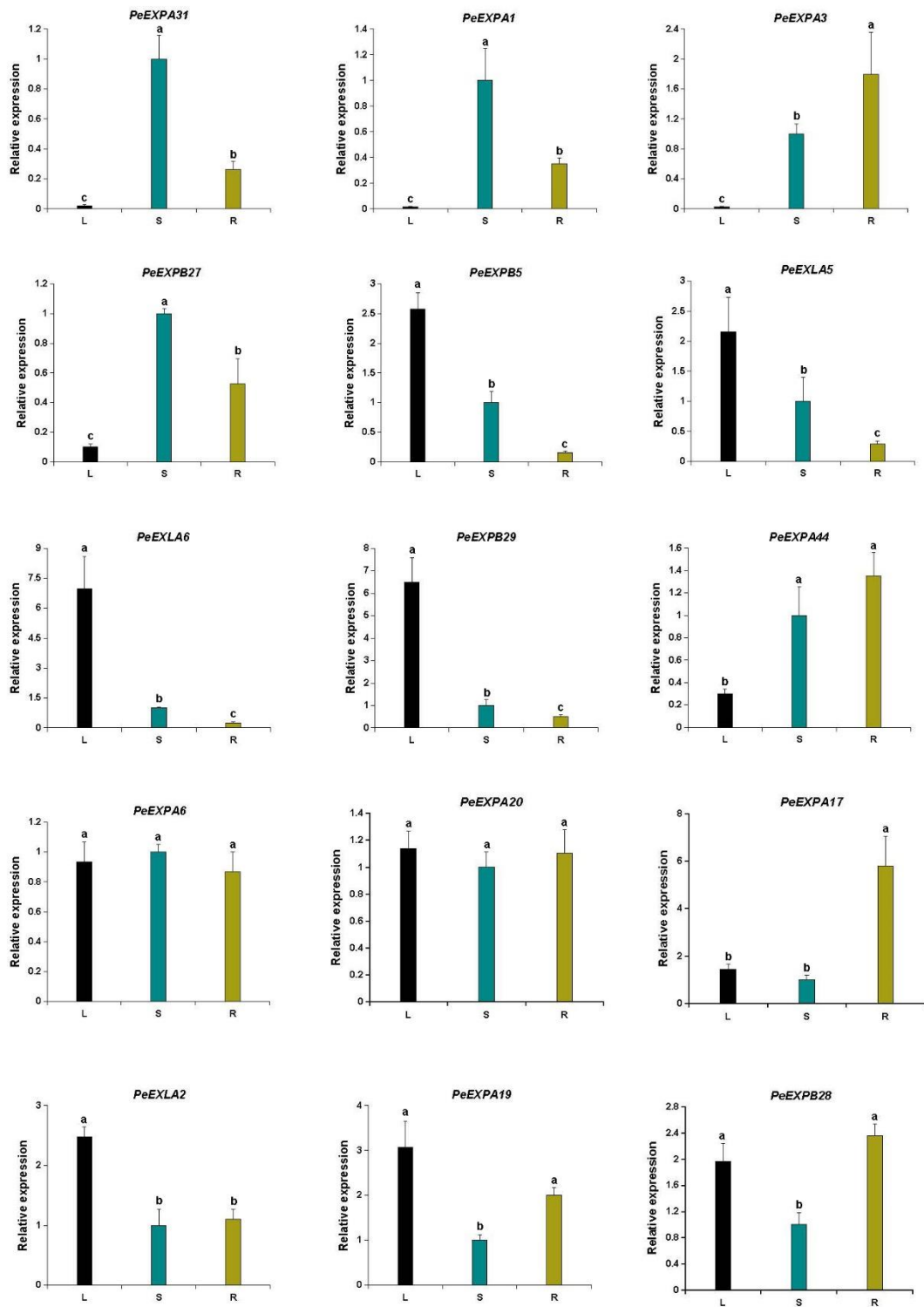


Figure S2. Significant differences in the expression levels of 15 selected PeEXs in different tissues. The significance of differences was analyzed by Duncan's test ($P < 0.05$). Different lowercase letters represent statistically significant differences. Error bars were obtained from three biological replicates. L, leaves; S, stems; R, roots.

Table S1. Details of the identified expansin genes in moso bamboo

Gene Name	Gene ID	Scaffold	start	end	strand	Length (aa)	PI	MW (Da)	Subcellular Location
PeEXPB1	PH02Gene40569.t1	3	74335277	74339262	+	324	9.12	33895.65	Cell wall
PeEXPB2	PH02Gene42691.t1	3	78490857	78492274	+	297	8.70	30644.73	Cell wall
PeEXPB3	PH02Gene45247.t1	3	78537523	78538940	+	297	8.70	30644.73	Cell wall
PeEXPA1	PH02Gene06444.t1	3	92969207	92970218	+	278	9.26	28294.80	Cell wall
PeEXLA1	PH02Gene29510.t1	5	51422163	51429007	+	506	7.12	53579.25	Cell wall. Chloroplast
PeEXPB4	PH02Gene02968.t1	5	52353073	52355499	+	269	9.46	29100.59	Cell wall
PeEXPB5	PH02Gene02937.t2	5	52983207	52985034	-	277	9.10	29823.89	Cell wall
PeEXPB6	PH02Gene02936.t1	5	52999419	53000792	-	269	5.20	28634.17	Cell wall
PeEXPB7	PH02Gene02934.t1	5	53032671	53034490	+	280	8.12	30415.35	Cell wall
PeEXPA2	PH02Gene12214.t2	6	3701059	3701885	+	249	6.02	24982.91	Cell wall
PeEXPA3	PH02Gene46545.t1	6	38936166	38938611	-	263	8.33	28208.14	Cell wall
PeEXPA4	PH02Gene31926.t1	6	73058480	73065647	+	221	8.03	22933.90	Cell wall
PeEXLA2	PH02Gene31603.t1	6	73854562	73856641	+	308	7.93	33129.66	Cell wall
PeEXPA5	PH02Gene47068.t1	6	896945	908588	-	326	9.65	34040.70	Cell wall
PeEXPA6	PH02Gene28974.t1	7	35252681	35254304	-	256	8.07	26590.58	Cell wall
PeEXPA7	PH02Gene23772.t1	7	63371448	63372607	-	265	9.66	27676.46	Cell wall
PeEXPA8	PH02Gene28134.t1	8	62256118	62258592	+	262	7.47	28095.97	Cell wall
PeEXPA9	PH02Gene24828.t1	8	78600808	78601679	+	264	9.28	27952.61	Cell wall
PeEXLA3	PH02Gene29461.t2	8	78769363	78770954	+	342	6.78	37217.27	Cell wall
PeEXPA10	PH02Gene31819.t1	8	987131	988084	-	293	6.16	30742.74	Cell wall
PeEXPA11	PH02Gene18295.t1	9	21565985	21566932	-	253	8.40	26792.07	Cell wall
PeEXPA12	PH02Gene18296.t1	9	21601983	21603082	-	256	8.70	27065.60	Cell wall
PeEXPA13	PH02Gene05526.t1	9	50302323	50303746	-	255	7.55	26517.43	Cell wall
PeEXLB1	PH02Gene13121.t1	10	18732234	18734165	-	261	5.22	27614.94	Cell wall
PeEXPB8	PH02Gene11268.t1	11	12195104	12195898	-	212	4.82	22440.46	Cell wall
PeEXPB9	PH02Gene11271.t1	11	12255991	12256782	-	239	5.64	25697.43	Cell wall
PeEXPA14	PH02Gene14288.t1	13	119228669	119230631	-	292	8.23	31073.25	Cell wall
PeEXPA15	PH02Gene14289.t1	13	119249926	119250818	+	256	6.67	27058.42	Cell wall
PeEXPA16	PH02Gene20872.t1	13	119260590	119261581	-	256	5.54	27291.88	Cell wall
PeEXPA17	PH02Gene22581.t1	13	132305242	132306188	+	261	8.72	27646.48	Cell wall
PeEXLA4	PH02Gene38031.t1	13	132903689	132905428	+	279	9.07	29452.59	Cell wall
PeEXPB10	PH02Gene01623.t1	13	133791899	133792907	-	269	8.97	28855.23	Cell wall
PeEXPB11	PH02Gene01648.t3	13	134369411	134370757	-	267	6.93	28725.48	Cell wall
PeEXPB12	PH02Gene01649.t1	13	134394493	134395901	-	270	5.07	28743.35	Cell wall
PeEXPB13	PH02Gene01650.t1	13	134427766	134429684	+	283	6.38	30624.52	Cell wall
PeEXPA18	PH02Gene36807.t1	13	94700314	94701215	+	273	8.94	28736.69	Cell wall
PeEXPA19	PH02Gene03683.t1	14	67001984	67003518	+	254	6.02	26556.47	Cell wall
PeEXPA20	PH02Gene45046.t1	15	37401407	37402384	-	254	9.50	26538.10	Cell wall
PeEXPA21	PH02Gene46862.t1	15	44591817	44592860	-	252	8.82	26077.39	Cell wall
PeEXPA22	PH02Gene03583.t1	15	73176039	73177057	-	255	6.51	27159.72	Cell wall
PeEXPA23	PH02Gene03585.t1	15	73228018	73231320	-	320	9.27	34235.31	Cell wall
PeEXPA24	PH02Gene03586.t1	15	73255714	73256665	-	256	8.31	26873.12	Cell wall
PeEXLA5	PH02Gene34262.t1	15	76838243	76839604	-	275	8.84	29617.75	Cell wall
PeEXPB14	PH02Gene40297.t1	15	902854	904335	-	269	8.34	28877.80	Cell wall
PeEXPB15	PH02Gene40298.t1	15	911752	913008	+	307	5.16	32261.83	Cell wall

PeEXPA25	PH02Gene42531.t1	15	98226831	98229181	-	264	9.34	27795.50	Cell wall
PeEXPA26	PH02Gene32628.t1	16	22660027	22661286	-	254	5.47	26443.28	Cell wall
PeEXPA27	PH02Gene13181.t1	16	95918380	95927832	-	383	9.73	40209.34	Cell wall. Chloroplast
PeEXPA28	PH02Gene14425.t1	16	99869453	99870316	-	219	9.58	23534.85	Cell wall
PeEXPA29	PH02Gene14424.t1	16	99895265	99896734	-	253	5.55	26308.25	Cell wall
PeEXPA30	PH02Gene50367.t1	16	99927882	99930278	-	253	5.20	26293.23	Cell wall
PeEXPA31	PH02Gene01054.t1	17	12261072	12262082	-	273	9.18	27794.28	Cell wall
PeEXPB16	PH02Gene28532.t1	17	26234003	26235223	-	295	9.03	30540.75	Cell wall
PeEXPB17	PH02Gene28533.t1	17	26300287	26301515	-	267	5.90	27437.88	Cell wall
PeEXPB18	PH02Gene16914.t1	17	29342022	29345539	-	276	8.76	29186.28	Cell wall
PeEXPA32	PH02Gene21084.t1	17	74673666	74674865	-	265	8.99	27993.83	Cell wall
PeEXPA33	PH02Gene38735.t1	17	74686415	74687614	-	265	8.88	27968.73	Cell wall
PeEXPA34	PH02Gene38738.t1	17	74771063	74772091	-	262	8.84	27773.77	Cell wall
PeEXPA35	PH02Gene12295.t1	18	13041933	13042833	+	262	5.32	27740.38	Cell wall
PeEXPA36	PH02Gene28555.t1	21	106668295	106669276	-	255	7.43	27252.88	Cell wall
PeEXPA37	PH02Gene28554.t1	21	106691612	106692324	-	170	8.08	18011.44	Cell wall
PeEXPA38	PH02Gene28553.t1	21	106708256	106709246	-	259	7.48	27127.36	Cell wall
PeEXLA6	PH02Gene00824.t1	21	109570927	109572618	-	275	7.47	29170.17	Cell wall
PeEXPB20	PH02Gene31719.t1	21	113342418	113343303	-	224	5.96	23893.25	Cell wall
PeEXPB21	PH02Gene29554.t1	21	113595397	113596188	-	239	5.64	25635.34	Cell wall
PeEXPB22	PH02Gene29555.t1	21	113599967	113600758	-	239	5.64	25635.34	Cell wall
PeEXPB23	PH02Gene29556.t1	21	113617586	113618377	-	239	5.64	25635.34	Cell wall
PeEXPB24	PH02Gene29557.t1	21	113621023	113621814	-	239	6.43	25591.34	Cell wall
PeEXPB19	PH02Gene32845.t3	21	34740938	34745733	-	383	5.24	38728.73	Cell wall
PeEXPA39	PH02Gene06071.t1	21	4378935	4381276	+	264	9.39	27840.66	Cell wall
PeEXPA40	PH02Gene47499.t1	21	61681859	61682843	-	254	9.00	26600.03	Cell wall
PeEXPA41	PH02Gene12421.t1	21	70119688	70120716	-	252	8.77	26166.42	Cell wall
PeEXPA42	PH02Gene02332.t1	23	14914198	14917558	-	261	8.59	27577.60	Cell wall
PeEXPB25	PH02Gene09763.t1	23	23202371	23205955	-	278	8.32	29244.56	Cell wall
PeEXPA43	PH02Gene10678.t1	23	64135918	64136876	-	263	8.78	27857.41	Cell wall
PeEXPB26	PH02Gene02089.t2	24	51338576	51342162	+	278	7.53	29187.25	Cell wall
PeEXPB27	PH02Gene20831.t1	24	54365891	54367152	+	266	5.25	26921.25	Cell wall
PeEXPB28	PH02Gene20830.t1	24	54374823	54375982	+	281	8.84	28391.10	Cell wall
PeEXPA44	PH02Gene00624.t1	24	58890492	58893457	+	261	8.38	27660.73	Cell wall
PeEXLA7	PH02Gene50483.t1	3160	668	2307	+	280	9.07	29758.95	Cell wall
PeEXPA45	PH02Gene50867.t1	12018	7231	8030	-	208	9.40	22617.49	Cell wall
PeEXPB29	PH02Gene51490.t1	17722	23	1312	-	245	8.93	26608.53	Cell wall

Table S2. Detailed primer sequences for quantitative real-time PCR analysis

Gene Name	Forward primer(5'-3')	Reverse primer(5'-3')
<i>PeEXPA1</i>	TCCACCACTACCACCACCTTT	GCGGAGGAATCGAACGAA
<i>PeEXPA3</i>	GGCACGGCAACTTACATCAA	AGGCACCAGAGGATGTTGTT
<i>PeEXPA6</i>	AACGGCCACTCCTACTTCAA	GTCCAGGTACGAGTTGCTCT
<i>PeEXPA11</i>	GAGACAATCGCCATCTACCAG	GCCGACGTTTGAAACCAG
<i>PeEXPA17</i>	TAGCAGCAGCCAGCAAGT	AACAACAAACGGCACAGC
<i>PeEXPA19</i>	ACTTCTGCCCGCCCAACT	ATCCCGCCCTTCTTCACG
<i>PeEXPA20</i>	TCCTACTTCAACCTGGTGCTGG	CGTTGTACGACACGACGGAGC
<i>PeEXPA29</i>	AGAAACAGTGAAGCCACATG	GCTCAGAAACACGACCAAG
<i>PeEXPA31</i>	CACCAACTTCTGCCCGCCAAAC	ACCGGATGCCGCCCTTCTTC
<i>PeEXPA41</i>	CCTCACCTGCGCCAACGT	GCTGGACGGGTCAATCCT
<i>PeEXPA44</i>	TGTGCGGTTCTCCGTCTCA	ATTGGTCAGCGTCGTGCC
<i>PeEXPB3</i>	CGGTGTCAGAAGAGGAGG	AAGGATTGCGTGGTAAAA
<i>PeEXPB5</i>	CGCTGACTGCTCCGATAGAG	ACACCACTTGCCTCCTCCAT
<i>PeEXPB27</i>	AAGGGCTGTGGCTCTTGCT	CACGGGTGTATTGGATTTGGA
<i>PeEXPB28</i>	GCCGCGTTAGAAGAGGAG	ACCGCAAAGCATAAGGTTGT
<i>PeEXPB29</i>	CGGCTCTTGCTACGAGATAAA	TACTTGCACCCGACCCCTC
<i>PeEXLA2</i>	ACATCTGGGCTTCACTTTCTGC	GCTCGTCCCTTCCACTTTACT
<i>PeEXLA5</i>	CGGTTCTTGCGGGTATGG	AGATCGGTGCGGTTTCGTC
<i>PeEXLA6</i>	TTCTCCTCCTCCCTTTTGCT	AGGAAGCCATCGTTGAAGGA