

Supplementary Materials

5'UTR

cgagcggggcgagcttgcttctggagtcttcaaataatagagagagaaaggctgaattctagagagagtgtgaag**ATG**GAGGGTAAG
GAAGAGGATGTGAAGCTCGGAGCGAACAAATTTCCCGAGAGGCAGCCGTTGGGAACTGCGGCGCAGACG
GACAAGGACTACAAGGAGCCACCGCCGGCGGGCCTGTTTCGAGCGGGAGGAGCTGACTTCATGGTCGTTTT
ACAGGGCCGGAATCGCGGAGTTCATGGCGACTTTCTGTCTTGTACATCACGGTCTTGACGGTGATGGGT
GTAAACAGAGCGCCGTCCAAGTGCGCCTCCGTCGGCATCCAAGGCATCGCTTGGGCCTTCGGCGGTATGAT
CTTTGCCCTCGTCTACTGCACCGCCGGTATCTCAGGAGGACACATTAACCCGGCGGTGACCTTCGGTTTGT
CCTGGCCAGAAAATATCGCTAACAGGGCGATCTTCTACATCGTGATGCAATGCCTTGGCGCAATTTGCGG
TGCCGGCGTGGTGAAGGGGTTCCAACAGTCGGAATTCCAGATGACCGGTGGTGGAGCCAACTTTGTTGCC
CCTGGCTACACCAAGGGTGACGGCCTCGGTGCGGAGATCGTCGGTACCTTTGTTCTTGTCTACACCGTTTTT
TCCGCCACTGATGCCAAGAGAAGCGCCAGAGACTCTCATGTCCCTATTTGGCTCCTCTCCCATCGGGTTTG
CGGTGTTCTTGGTCCATTTGGCGACAATCCCATCACTGGAACCGGCATCAACCCTGCCCGGAGTCTCGGAG
CTGCCATCATTTACAATAAAGATCATGCCTGGGACGACCACTGGATATTCTGGGTTGGACCCCTATTGGAGC
TGCGCTTGCTGCTTTATACCACCAGATAGTCATCCGAGCAATTCCTTTCAAGAG

3'UTR

CAGGGCT**TAA**aaaacccttattttcttcaagtcctttttcttttctttttatttggctctgttttcttctgtgtgtgtgctctgtga
aattatgataattaggtttgtttgtattttaaggatgttgatgaatgaaatgaacaattattattgttaacaaaaaaaaaaaaaaaaaa
aaaaaaaaaa polyA

Figure S1. Coding sequence of *EuPIP1;1*.

Table S1. The absorbance of OD(A260/A280) and OD(A260/A230) of the RNA.

Sample	OD(A260/A280)	OD(A260/A230)
RNA extracted form Leaves of <i>E. ulmoides</i> PEG treatment for investigate the expression mode of <i>EuPIP1;1</i> in <i>E. ulmoides</i> under PEG stress		
0h 1	1.92	2.51
0h 2	1.97	2.09
0h 3	1.93	1.98
1 h 1	2.01	2.21
1 h 2	1.96	2.23
1 h 3	1.88	1.82
2 h 1	2.0	2.34
2 h 2	2.03	2.10
2 h 3	1.91	1.80
4 h 1	1.98	2.21
4 h 2	1.91	1.75
4 h 3	1.87	2.43
6 h 1	2.05	2.45
6 h 2	1.93	1.99
6 h 3	1.84	1.89
24 h 1	2.06	2.43
24 h 2	1.96	2.01

24 h 3	1.95	2.51
48 h 1	1.97	2.52
48 h 2	1.96	1.91
48 h 3	1.90	1.93
RNA extracted from <i>E. ulmoides</i> for tissue-specific expression		
root1	1.98	2.42
root2	1.85	2.23
root3	1.96	2.46
stem1	1.87	2.12
stem2	1.99	2.17
stem3	1.86	2.25
leaf1	2.01	2.28
leaf2	1.99	2.45
leaf3	1.87	2.23
fruit1	1.88	2.25
fruit2	1.92	2.41
fruit3	1.99	2.3
RNA extracted from leaves of <i>Arabidopsis</i> for analysis the expression level of growth-related genes and the expression level of <i>EuPIP1;1</i>		
WT 1	2.01	2.54
WT 2	1.85	1.92
WT 3	2.01	2.50
P1 1	2.01	2.46
P1 2	1.89	2.39
P1 3	1.99	2.38
P2 1	1.89	2.45
P2 2	1.94	2.42
P2 3	2.01	2.25
RNA extracted from leaves of <i>Arabidopsis</i> for analysis the expression level of stress-related genes		
WT 1	1.96	2.35
WT 2	2.01	2.45
WT 3	1.90	1.93
P1 1	1.94	2.23
P1 2	1.83	2.36
P1 3	2.0	1.98
WT 1 (drought)	1.86	2.25
WT 2 (drought)	1.93	2.11
WT 3 (drought)	1.94	2.50
P1 1 (drought)	1.98	2.28
P1 2 (drought)	1.87	1.98
P1 3 (drought)	1.91	2.34
WT 1 (salt)	1.99	2.27

WT 2 (salt)	1.86	2.42
WT 3 (salt)	1.90	2.07
P1 1 (salt)	1.93	2.31
P1 2 (salt)	1.96	2.01
P1 3 (salt)	1.96	1.99

Table S2. Primers used in the study.

Primer	Gene ID	Sequence 5' to 3'	Purpose
EuPIP-GSP1		GGTGGCTCCTTGTAGT	
EuPIP-GSP2		TGCGCCGCAGTTCCCAA	5'RACE
EuPIP-GSP3		TGCCTCTCGGGAAATTTG	
EuPIPC3-1		CCCCATCGGGTTTGCGGTGTTCTT	3'RACE
EuPIPC3-2		CCGGAGTCTCGGAGCTGCCATCAT	
EuPIP-F		GTCGAATTCTAGAGAGAG	Full cDNA
EuPIP-R		TTTAAGCCCTGCTCTTGA	sequence
qEuPIP-F		TCCAGATGACCGGTGGTG	Realtime PCR
qEuPIP-R		AGTGGCGGAGAAAACGGT	
EuActin-F		TTGTTAGCAACTGGGATGATATGG	Realtime PCR
EuActin-R		CAGGGTGTTCCTTCAGGAGCAA	
EuPIPJ-F		TCCAGATGACCGGTGGTG	Transgenic plant
EuPIPJ-R		AGTGGCGGAGAAAACGGT	detection
AtACT2-F	AT3G18780	AAGTCTTGTTCCAGCCCTCG	Realtime PCR
AtACT2-R		TCTGCTGGAATGTGCTGAGG	
AtGIF2-F	AT1G01160	GATGCTTGGTGGGTCAGGAA	
AtGIF2-R		GCGCACTCAGCAAGTTTACC	
AtKUP4-F	AT4G23640	TTACCCGTGTCTGGTGCTTC	
AtKUP4-R		TGACAATCGAGAACGTGGCA	
AtLBD18-F	AT2G45420	TCCTCCCCCTCTTGCCATAA	
AtLBD18-R		CACCGTATTGGTGACGTGGA	
AtPIF4-F	AT2G43010	CGGAGTTCAACCTCAGCAGT	
AtPIF4-R		CCATCGGCTGCATCTGAGTC	

AtTCP14-F	AT3G47620	TCCTTCTCATTTCCTCGCTCCG
AtTCP14-R		TAGGTGCACGTCCCTGTAGA
AtP5CS1-F	AT2G39800	ATCCCTGTGCTAGGTCATGC
AtP5CS1-R		CTATGCGCTTTGCCATATCCG
AtHKT1-F	AT4G10310	TCTTCTTGGAGTGACGGTGC
AtHKT1-R		TAGTTTCTCCGGTGTGTCCG
AtSOS1-F	AT2G01980	TCATCTCCCGCCGCATTATC
AtSOS1-R		CTTGAGCTACGTGGTGGTGT
AtCRY1-F	AT4G08920	TGCTGCGTTTTTGAGAGAGAT
AtCRY1-R		GCACTATCGGCTTTTCTGCG
AtCRY2-F	AT1G04400	GATGCCAATAACTGCAGCGG
AtCRY2-R		GGCACACTGGAAAACGTGTC
AtFCA-F	AT4G16280	AGCCTATGGGTCCTCACCAT
AtFCA-R		GAAGGAGGATACTTCGCGGG
AtFT-F	AT1G65480	ATGTGTAGAGGGTTCATGCC
AtFT-R		TCCTGAGGTCTTCTCCACCAA
