

Supplementary Table S1. Primers used in the study

Primer name	Primer sequence (5'-3')
ArUBQ 10-F	GGGCCTTGTATAATCCCTGAT
ArUBQ 10-R	CCATCCTTAGAACCCAACAGC
PSY-qPCR-F2	TTTTGCTGGACGACCTTATGACA
PSY-qPCR-R2	AACCCGACAGTTCCTGCGACAT
ZjPSY-F	GGTACACGACAGTAAGCGCATAC
ZjPSY-R	ACTGCGTACTCCTTCCTTCTATCTA
pGBKT7-ZjPSY-F	ATCCCCGGGAATTCGGCCTCTTAGCTCTGGCTATTTCTC
pGBKT7-ZjPSY-R	AGGAGGACCTGCATATGGCCGCTTTTCTTCCCCCTTGCGG
3302Y-ZjPSY-F	CACGGGGGACTCTTGACCATGGTATTAGCTCTGGCTATTTCTC
3302Y-ZjPSY-R	GGTACACGCGTACTAGTCAGATCGCTTTTCTTCCCCCTTGCGG
YNE-ZjPSY-F	TCGATAGTACTGTCGACCTCATGGCCATCATGCTTGTAAG
YNE-ZjPSY-R	ATCCCCGGGAGCGGTACCCTCGCTCTGGCTATTTCTCAGTG
YCE-ZjJ2-F	ACCTCGAGGGTACCGCTCCCATGGTACCAGATTACGCTCATA T
YCE-ZjJ2-R	ACATCGTATGGGTACATCCCAGGGTTTGACTTGATGAGAA
ArCLH1-RT-F	CGCAACATTAGACCCATCCA
ArCLH1-RT-R	GGCTTTCGTCGCCTTACACT
ArNYC-RT-F	CACCTCTTTCTTTCTTCGTCCTA
ArNYC-RT-R	CAATCTTGACCCGACCCGTAT
ArNOL-RT-F	TTTGCTGTTATGGCTGTTCCCT '
ArNOL-RT-R	AGTTCCCTCACATCCTTCCCT'
ArPAL-RT-F	ATAAGAGCAGCGACTAAGATGA
ArPAL-RT-R	GGTAACCCGTTGTTGTAGAAAT
ArNCED-RT-F	CGGAGACAGACGAGGTTGTAG
ArNCED-RT-R	TGAGACTTTAGGCCACGGTTC
ArZDS-RT-F	AGTCACTTGGTCGTCGGTTGT '
ArZDS-RT-R	AATTTGGAGGCTGTTCTTGCT
ZjACT-F	GGTCCTCTTCCAGCCATCCTTC
ZjACT-R	GTGCAAGGGCAGTGATCTCCTTG

The efficiency of primer pair PSY-qPCR-F2/R2 is 90.0135, R2=0.9997; ArCLH1-RT-F/R, 104.2102%, R2=0.999; ArNYC-RT-F/R, 102.1831%, R2=0.9998; ArNOL-RT-F/R, 90.4131%, R2=0.9996; ArPAL-RT-F/R, R2=86.5855%, 0.9991; ArNCED-RT-F/R, 107.4709%, R2= 0.9863; ArZDS-RT-F/R, 93.8269%, R2=0.9955.

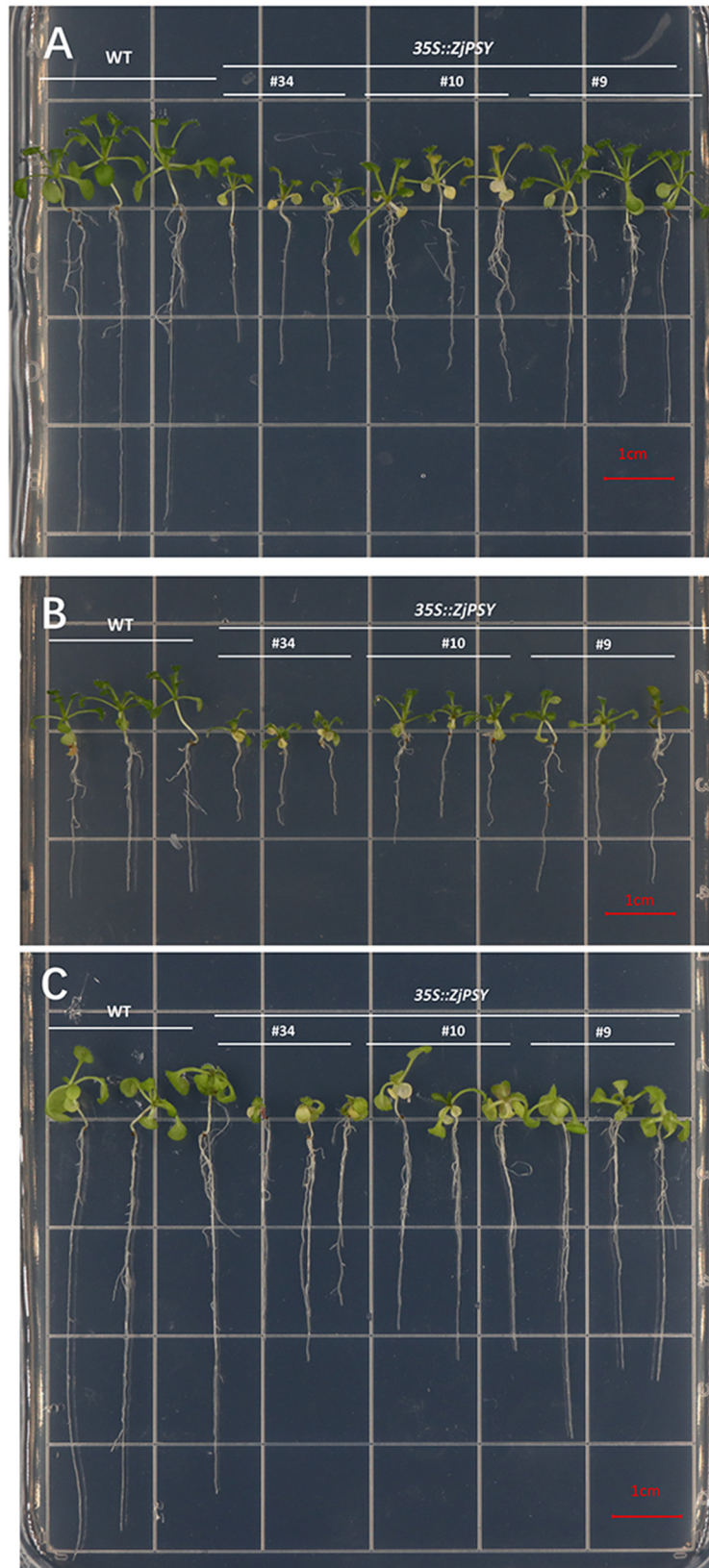
Supplementary Table S2. cDNA inserts in library prey vectors.

Serial number	Sample	Growth Condition	Time of growth
1	The whole plant	Pots	1 month, 3 months, 6 months
2	The whole plant	MS plates with 200 mM NaCl	1 month
3	The whole plant	MS plates with 500 mM mannitol	1 month
4	The whole plant	MS plates with 10 μ M GA3	1 month
5	The whole plant	MS plates with 10 μ M ABA	1 month
6	The whole plant	MS plates with 10 μ M MeJA	1 month
7	The whole plant	MS plates with 0.5 mM SA	1 month
8	The whole plant	MS plates and MS plates without light	MS plates for 1 month and MS plates without light for 5d.
9	All cDNA mentioned in paragraph 4.6		

Total RNA was isolated from each sample as described in paragraph 4.2. Growth Condition.

All pots were kept at 28/23°C (day/night) with 16h (at 400 μ mol/m²/s)/8h photoperiod and 50% humidity.

All Murashige and Skoog plates (4.43 g/L Murashige and Skoog powder, 8 g/L agar, pH 5.8) were kept with a 16h white light (at 90 μ mol/m²/s)/8h dark cycle and 50% humidity at 25°C. Shade-treated MS culture bottles are wrapped in tin foil.



Supplementary Figure S2. Performance of wild-type and transgenic plants. The transgenic and wild-type *Arabidopsis* grown in MS agar plates for 14 days (A). 500 mM mannitol (B) and 200 mM NaCl (C) were added to MS medium in drought treatment and salt treatment groups, respectively.