

1 **Table S7.** *Arabidopsis* transcriptome data set

Stress/Treatment	Tissue	Treatment conditions	GEO/ArrayExpress	Reference
Heat	Shoot	38°C; 15 min, 30 min, 1 h, 3 h	GSE5628	Kilian et al. (2007)
Cold	Shoot	4°C; 30 min', 1 h, 3 h, 6 h, 12 h, 24 h	GSE5621	Kilian et al. (2007)
Salt	Shoot	150 mM NaCl; 30 min', 1 h, 3 h, 6 h, 12 h, 24 h	GSE5623	Kilian et al. (2007)
Osmotic	Shoot	300 mM mannitol; 30 min, 1 h, 3 h, 6 h, 12 h, 24 h	GSE5622	Kilian et al. (2007)
ABA	Seedling	10 µM ABA; 30 min, 1 h, 3 h	GSE39384	Goda et al.(2008)
Mannitol	Leaf	25 mM mannitol; proliferating/ expanding/ mature leaf	GSE16474	Skirycz et al. (2010)
Mannitol	Proliferating leaf	25 mM mannitol; 1.5 h, 3 h, 12 h, 24 h	GSE22107	Skirycz et al. (2011)
Mannitol*	Leaf	300 mM mannitol; 3 h and 3 h+recovery	GSE36789	Kinoshita et al. (2012)
Drought (1)	Seedling	Dehydration; 2 h, 24 h	E-MEXP-2435	Abdeen et al. (2010)
Drought (2)	Seedling	Dehydration; 1 h, 4 h	E-MEXP-2377	Mizoguchi et al. (2010)

2 **Abdeen A, Schnell J, Miki B** (2010) Transcriptome analysis reveals absence of unintended effects in drought-tolerant transgenic
3 plants overexpressing the transcription factor *ABF3*. BMC Genomics **11:** 694 **Goda H, Sasaki E, Akiyama K, Maruyama-Nakashita A, Nakabayashi K, Li W, Ogawa M, Yamauchi Y, Preston J, Aoki K, et**
5 **al** (2008) The AtGenExpress hormone and chemical treatment data set: experimental design, data evaluation, model data analysis
6 and data access. Plant J **55:** 526-5427 **Kilian J, Whitehead D, Horak J, Wanke D, Weinl S, Batistic O, D'Angelo C, Bornberg-Bauer E, Kudla J, Harter K** (2007) The
8 AtGenExpress global stress expression data set: protocols, evaluation and model data analysis of UV-B light, drought and cold
9 stress responses. Plant J **50:** 347-36310 **Kinoshita N, Wang H, Kasahara H, Liu J, MacPherson C, Machida Y, Kamiya Y, Hannah MA, Chua N-H** (2012) *IAA-Ala*
11 *Resistant3*, an evolutionarily conserved target of miR167, mediates *Arabidopsis* root architecture changes during high osmotic
12 stress Plant Cell **24:** 3590-360213 **Mizoguchi M, Umezawa T, Nakashima K, Kidokoro S, Takasaki H, Fujita Y, Yamaguchi-Shinozaki K, Shinozaki K** (2010)
14 Two closely related subclass II SnRK2 protein kinases cooperatively regulate drought-inducible gene expression. Plant Cell
15 Physiol **51:** 842-84716 **Skirycz A, Claeys H, De Bodt S, Oikawa A, Shinoda S, Andriankaja M, Maleux K, Barbosa Eloy N, Coppens F, Yoo S-D, et al**
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21 leaves to prolonged mild osmotic stress. Plant Physiol **152:** 226-244