Supplementary Material

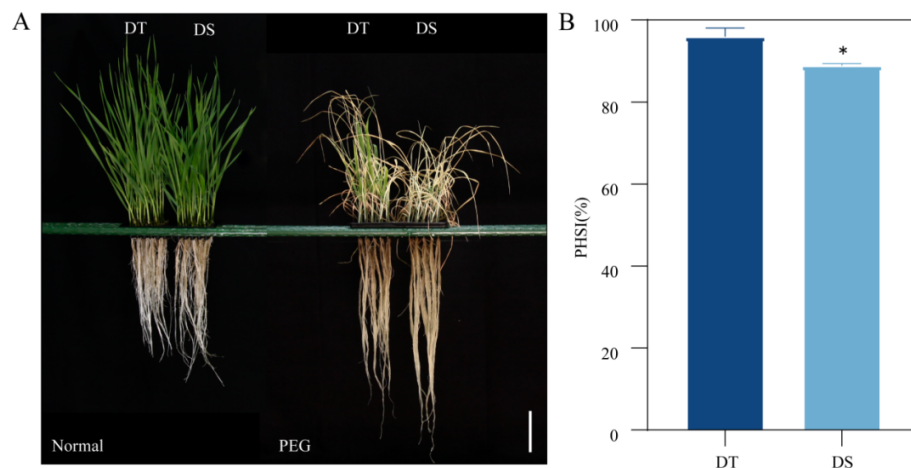**Supplementary Figure S1.**

Figure S1. Identification of drought tolerance of two wheat cultivars. (A) Typical images of drought tolerant cultivar C6878 and drought sensitive cultivar S4185 under normal nutrient solution and PEG6000 stress, respectively. (B) Plant height stress index. Scale bar represents 5 cm. (×) represent the significant differences at P < 0.05 (ANOVA test).
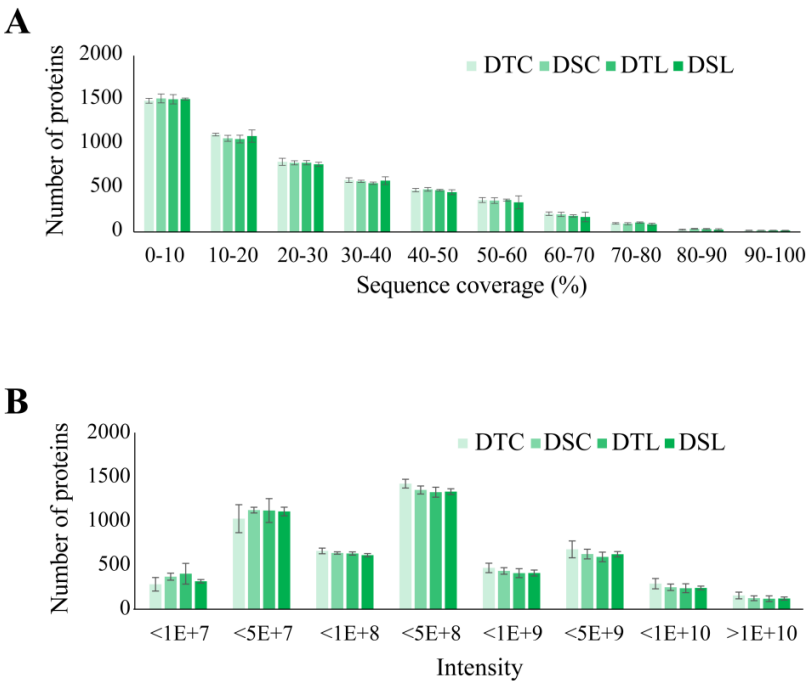
A

B

Figure S2. Distribution of the sequence coverages and the intensities of the identified proteins. (A) Distribution of the sequence coverages of the identified proteins. (B) Distribution of the intensities of the identified proteins.

Table S1. Wheat nutrient solution formulations

Drug name	Normal nutrient concentration	LN nutrient concentration
$Ca(NO_3)_2$	2 mmol/L	0.2 mmol/L
KH_2PO_4	0.2 mmol/L	0.2 mmol/L
$MgSO_4$	1 mmol/L	1 mmol/L
KCl	1.5 mmol/L	1.5 mmol/L
$CaCL_2 \cdot 2H_2O$	1.5 mmol/L	2.4 mmol/L
H_3BO_3	1×10^{-3} mmol/L	1×10^{-3} mmol/L
Na_2MoO_4	15×10^{-3} mmol/L	15×10^{-3} mmol/L
$CuSO_4 \cdot 5H_2O$	5×10^{-4} mmol/L	5×10^{-4} mmol/L
$ZnSO4 \cdot 5H_2O$	1×10^{-3} mmol/L	1×10^{-3} mmol/L
$MnSO4$	1×10^{-3} mmol/L	1×10^{-3} mmol/L
$FeSO4 \cdot 7H_2O$	0.1 mmol/L	0.1 mmol/L
$EDTA \cdot Na_2$	0.1 mmol/L	0.1 mmol/L

Table S2. Primer sequences used in this study

Gene	Primer name	Primer sequence (5′-3′)	Purpose
TraesCS4D02G036000.3 （EIN2-A0A3B6JE28）	F	TGCTTGGACTGGACTTGATAAG	
	R	GTCTGGAGTAGAGATGCCTGAT	
TraesCS4D02G198600.1 (MAPK3/6-A7L5U5)	F	TGTAAGTTGTTGCTGCTTCTTC	
	R	ATTTGCTCTCAAATCATGCTCC	qRT-PCR
TraesCS2B02G414800.1 (ACS-A0A3B6CAM9)	F	CGTACGTACATTTGCTACGTAC	
	R	CTCCGTAAAACGTTAAGCTAGC	
TaActin	F	GCTCTCCAACAACATTGCCAAC	
	R	GCTTCTGCCTGTCACATACGC	