

Supplementary Figure S1. The percentages of different repetitive element groups that underwent changes in roots or leaves under water deficiency stress and subsequent rewatering.

Supplementary Table S2. MSAP bands patterns corresponding to possible DNA methylation

Band pattern	Hpall	Mspl	Туре	Methylation state		
1	1	1	Demethylated or hemimethylated inner C	CCGG or C <u>C</u> GG GGCC GGCC		
II	1	0	Hemimethylated outer C or one strand hemimethylated	CCGG or CCGG GGCC GGCC		
Ш	0	1	Fully methylated inner C	C <u>C</u> GG G <u>C</u> C		
IV	0	0	Fully methylated or fully methylated outer C or fully methylated outer C + hemimethylated inner C or hemimethylated outer C + fully methylated inner C	<u>CC</u> GG or <u>CC</u> GG or <u>CC</u> GG GG <u>CC</u> GGC <u>C</u> GG <u>C</u> C		

states

Supplementary Table S3. The percentages of different LTR types that underwent changes in roots or leaves under water deficiency stress and subsequent rewatering

LEAV	ES	ROOTS		
Group	%	Group	%	
Gypsy	29.4	Gypsy	22.8	
SUKKULA	15.6	BARE	21.6	
BAGY	11.9	SUKKULA	13.3	
BARE	8.9	BAGY	11	
Copia	8.9	Maximus	8.3	
Maximus	7.4	SABRINA	7.3	
SABRINA	6.7	Copia	5.3	
INGA	4.1	INGA	3.8	
CEREBA	2.6	CEREBA	3.6	
IKEROS	1.9	NIKITA	0.9	
INAV	1.1	OPHELIA	0.7	
OPHELIA	0.7	INAV	0.6	
Unknown	0.7	IKEROS	0.5	
NIKITA	0	Unknown	0.3	