

Supplemental figures

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Drought stress differentially regulates the expression of small open reading frames (sORFs) in *Arabidopsis* roots and shoots. Plant Signaling and Behavior.

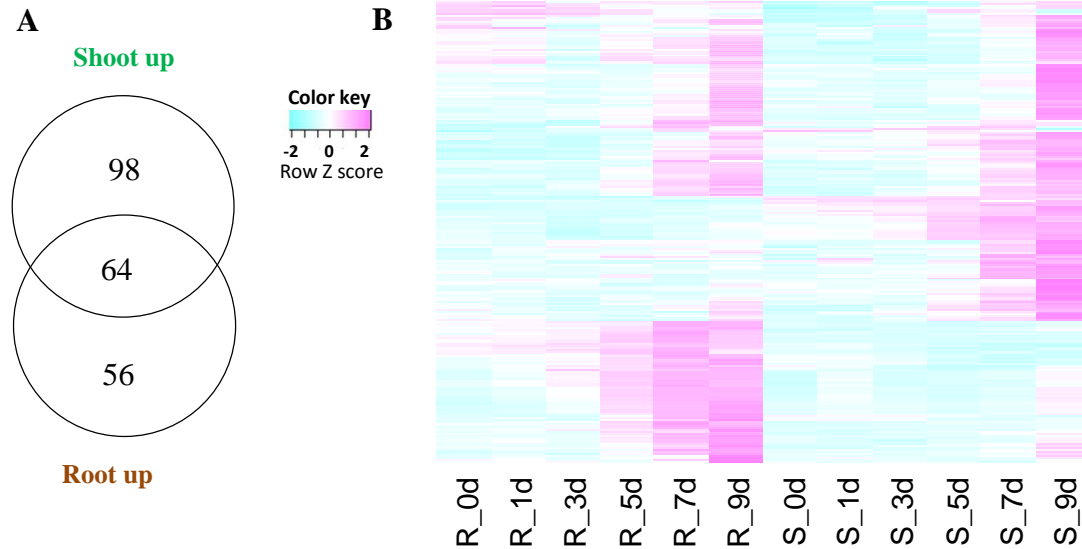


Figure S1: sORFs up-regulated in response to a progressive drought stress treatment.
A). Venn diagram of sORFs up-regulated in roots and shoots during at least one stage of a drought stress treatment. **B).** Heat map reflecting changes in sORF expression in roots and shoots during different stages of the response to a drought stress treatment.

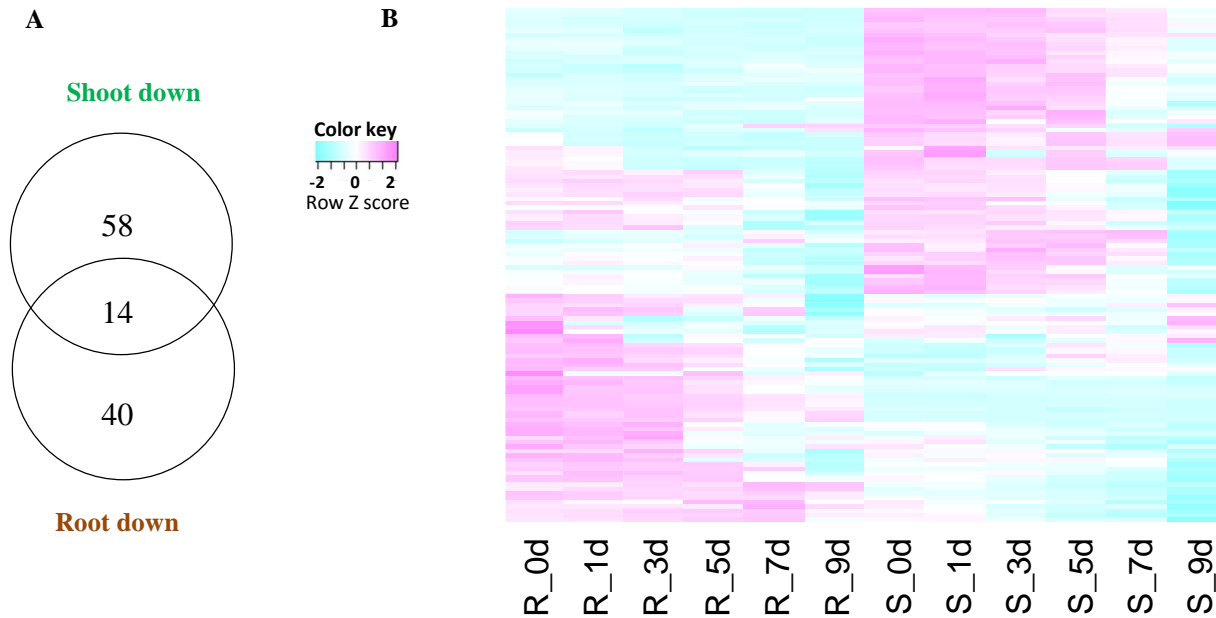
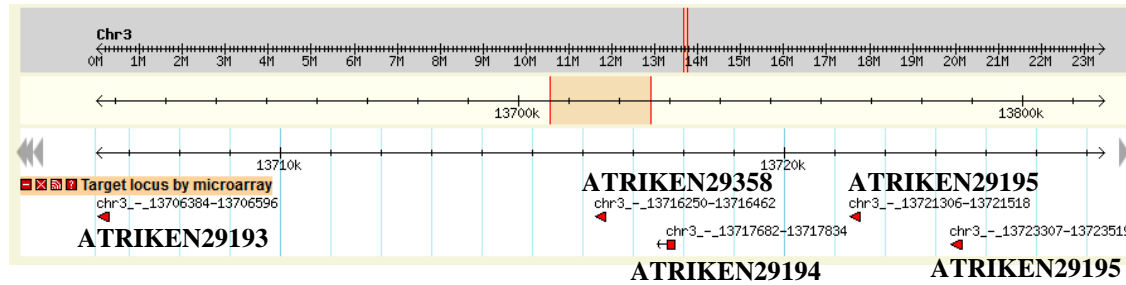


Figure S2: sORFs down-regulated in response to a progressive drought stress treatment.

A). Venn diagram of sORFs down-regulated in roots and shoots during at least one stage of a drought stress treatment. **B).** Heat map reflecting changes in sORF expression in roots and shoots during different stages of the response to a drought stress treatment.

A



1 Kb

B

ATRIKEN29193	MVFQYFAYIKALIKKIGYSYIAGGTHGKWI I KSLKKNRYDY I AYSNRCDHTSTNAPGPIRTPQLRVLGRE	70
ATRIKEN29195	MV I QYFAYIKALIKKIGYSYIAGGTHGKWI I KSLKKNRYDY I AYSNRCDHTSTNAPDSIRTPQLRVLGRE	70
ATRIKEN29358	MVFQYFAYIKALIKKIGYSYIAGETHGKWI I KSLKKNRYDY I AYSNRCDHTSTNVPDSIRTSQLRVLGRE	70

C

ATRIKEN29357	M Q HE Y FF P GGHPS Y YYSRPSMLNCGVLMGSGALV L V-	35
ATRIKEN29359	MQYEDIPRGHPSSYYSRPSTLN Y VVLMGSGALV L V-	35
ATRIKEN29360	MQYEDIP Q GHPSYYSRPSTLNCGVLMGSGALV L V-	35
ATRIKEN29361	MQHEDIPRGHPSSYYSRPSTLNCGVLMG S SALV L V-	35

Figure S3: Sequence similarity between peptides putatively encoded by sORFs.

A). Position of different sORFs on chromosome 3 of *Arabidopsis*. **B).** Sequence similarity between ATRIKEN29193, ATRIKEN29195, and ATRIKEN29358. **C).** Sequence similarity between ATRIKEN29357, ATRIKEN29359, ATRIKEN29360, and ATRIKEN29361. Conserved amino acids are highlighted in yellow.