

Supplementary Material

Van Hooren & Munnik (2024)

Supplemental Table S1. Primers for the qPCR of drought marker genes and genes of interest.

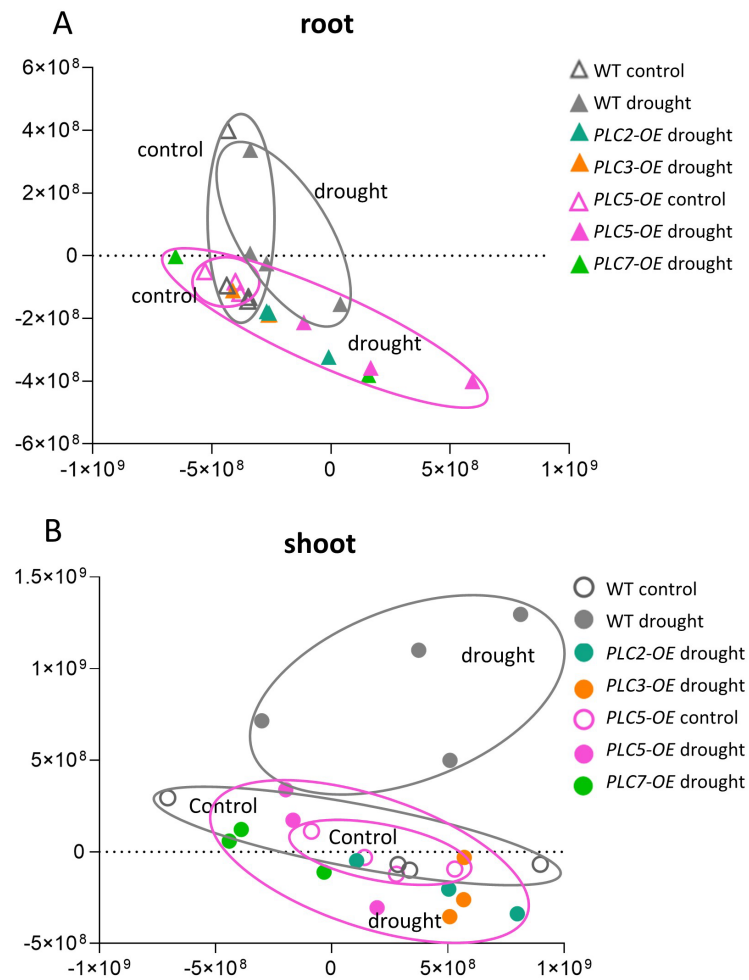
Primers	Sequence
DREB2A_qPCR_fwd	GACCTAAATGGCGACGATGT
DREB2A_qPCR_rev	TCGAGCTGAAACGGAGGTAT
RD29A_qPCR_fwd	TGGATCTGAAGAACGAATCTGATATC
RD29A_qPCR_rev	GGTCTTCCCTTCGCCAGAA
CIPK20_qPCR_rev	TGGAGCTAAAGCCGATGTTT
CIPK20_qPCR_fwd	GGGTCAAGAATCCGAGACAA
LHC2.1_qPCR_rev	ATGGCCACATCAGCTATCC
LHC2.1_qPCR_fwd	CTGCAGTTAAGTAAGACGGTGTG
SAND_qPCR_fwd	AACTCTATGCAGCATTTGATCCACT
SAND_qPCR_rev	TGATTGCATATCTTTATCGCCATC

Supplementary Tables S2-S4 and S6-9 can be found at: <https://doi.org/10.5281/zenodo.7380193>

- **Supplemental Table S2** - RNA-seq all genes
- **Supplemental Table S3** - Significantly Differentially expressed genes
- **Supplemental Table S4** - Genes differently expressed in all *PLC-OEs*
- **Supplemental Table S6** - Venn diagrams
- **Supplemental Table S7** - Panther Go term table
- **Supplemental Table S8** - Go terms
- **Supplemental Table S9** - Heatmap & clustering data

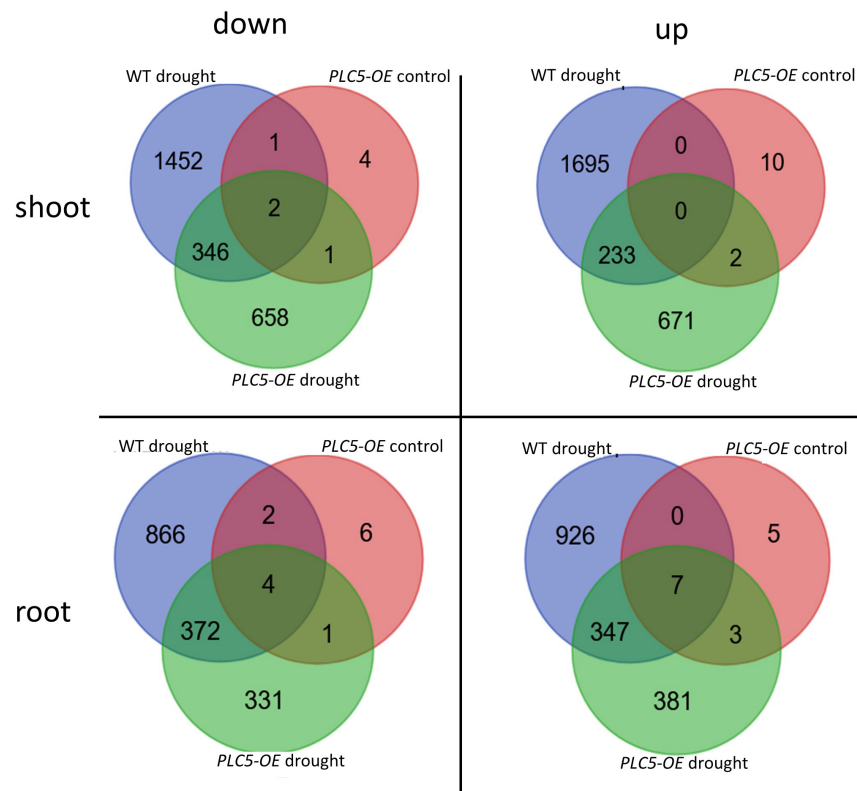
Supplemental Table S5. DEGs in WT drought, PLC5 control, and PLC5 drought compared to WT control. Root- and shoot samples were compared separately.

	Root down	Root up	shoot down	Shoot up
WT drought	1244	1280	1801	1928
PLC5-OE control	13	15	8	12
PLC5-OE drought	708	738	1007	906

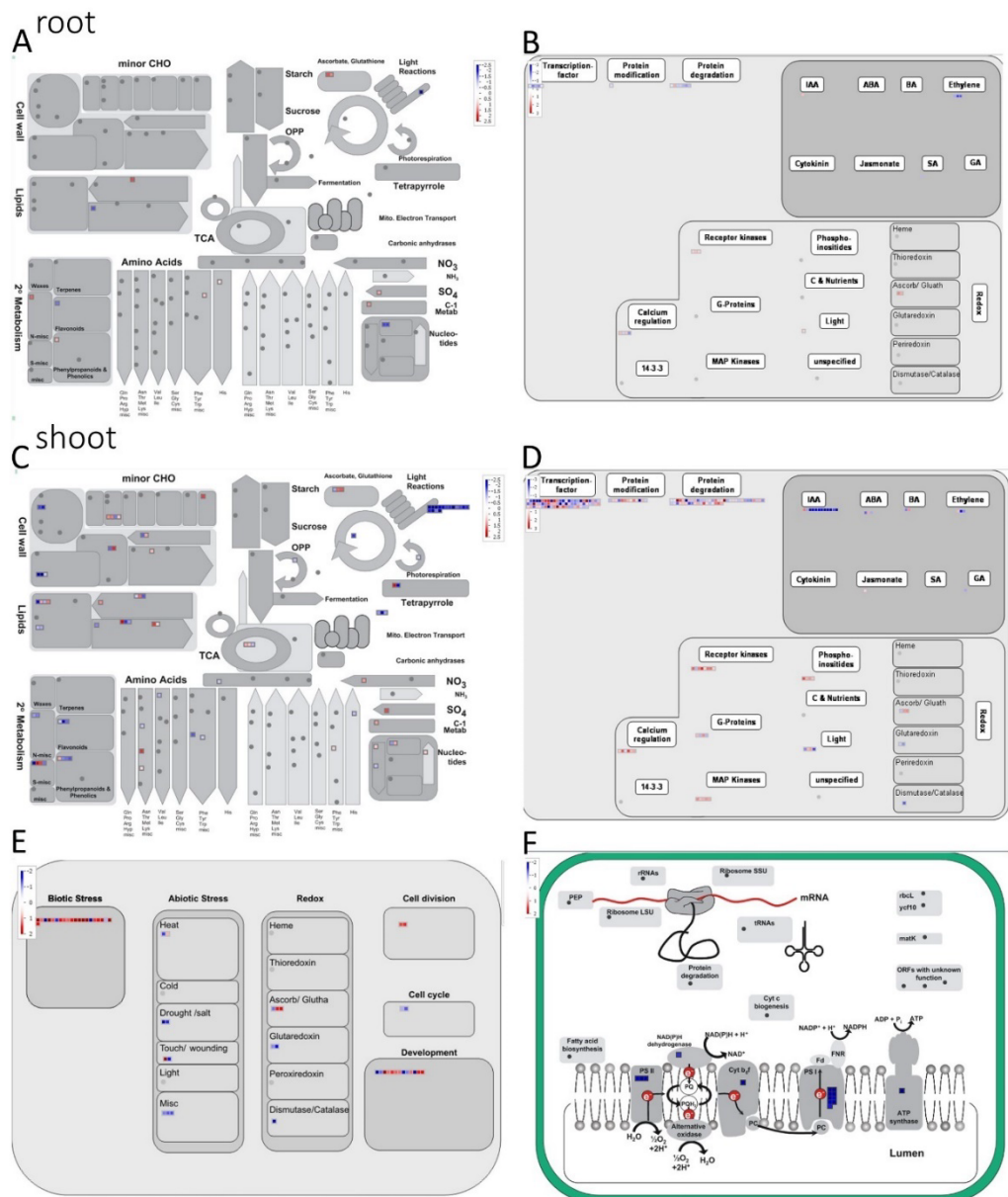


Supplemental Figure S1. PCA plots showing the response of WT and PLC-OEs to mild drought stress.

PCA plots are from root (A) or shoot (B). Dots represent individual samples; ellipses were drawn to indicate the different groups.



Supplemental Figure S2. Genes differently expressed in WT drought, *PLC5-OE* control/drought when compared to WT control conditions. Shoot- and root samples were separately compared, and up- and down-regulated genes were split from each other too.



Supplemental Figure S3. Mapping root- and shoot data using Mapman.

A) Root data on Metabolism

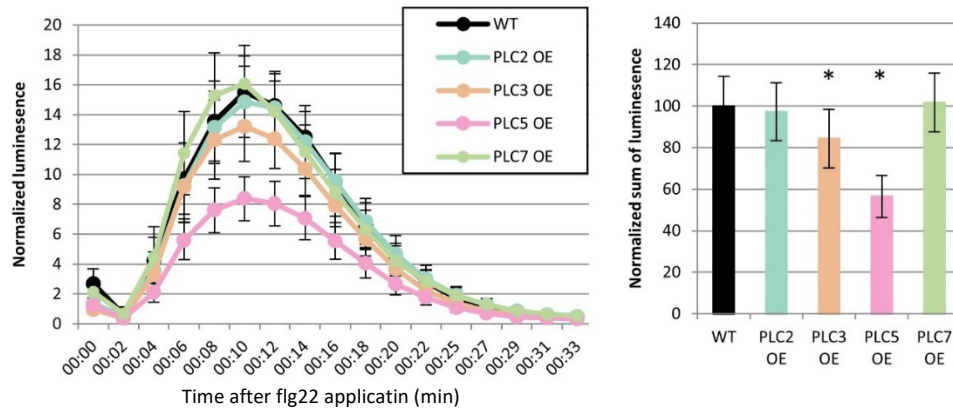
B) Root data on Regulation

C) Shoot data Metabolism

D) Shoot data on Regulation

E) Shoot data on Cellular response

F) Shoot data on Chloroplast



Supplemental Figure S4. Flg22-induced H₂O₂ responses in PLC-OE lines vs WT.

A) Leaf discs from 28-day old plants were incubated with 100 nM flg22 and the luminescence measured every 2 min for 35 min while normalized to control without flg22. B) Total H₂O₂ production was calculated by integrating the areas under the curves. 120 Leaf discs from 30 plants were measured over 8 different experiments, only taking the youngest leaves. Error bars represent standard errors. Statistical significance from WT was determined. The production of H₂O₂ was measured with a luminol-based assay. *PLC3-OE* and *PLC5-OE* exhibit impaired flg22-induced oxidative burst, while *PLC2-OE* and *PLC7-OE* showed response like WT.