

**Figure S2. Root- and leaf-preferred expression of AQP.** Difference of expression level is indicated as Log<sub>2</sub> ratio of root relative to leaf samples. Differential AQP transcript accumulations between organs were hierarchically clustered using Euclidean distance. Each row of the heatmap corresponds to an AQP gene. Color scale depicts Log<sub>2</sub>ratio value: Green represents leaf-preferred expression and red represents root-preferred expression. Columns correspond to 12 comparisons between root and leaf samples of distinct genotypes (*Populus canescens*, *P. fremontii* x *P. angustifolia* RM5, *P. deltoides* x *P. nigra* Carpaccio and Soligo as indicated). Samples were collected from control trees grown in hydroponics (1, 2 and 4), in soil without water limitation (5 and 11), 90h after leaf mechanical wounding (3), 36h after irrigation stop (short-turn drought, 6 and 12), after 10-day mild drought (soil relative extractable water at 20 – 35%: 7 and 9) or after 10-day moderate drought (soil relative extractable water at 10 – 20%: 8 and 10). Microarray data were found under the series accession numbers: GSE13109 (1 and 2), GSE16786 (3 and 4), GSE17223 and GSE17230 (5 to 12).

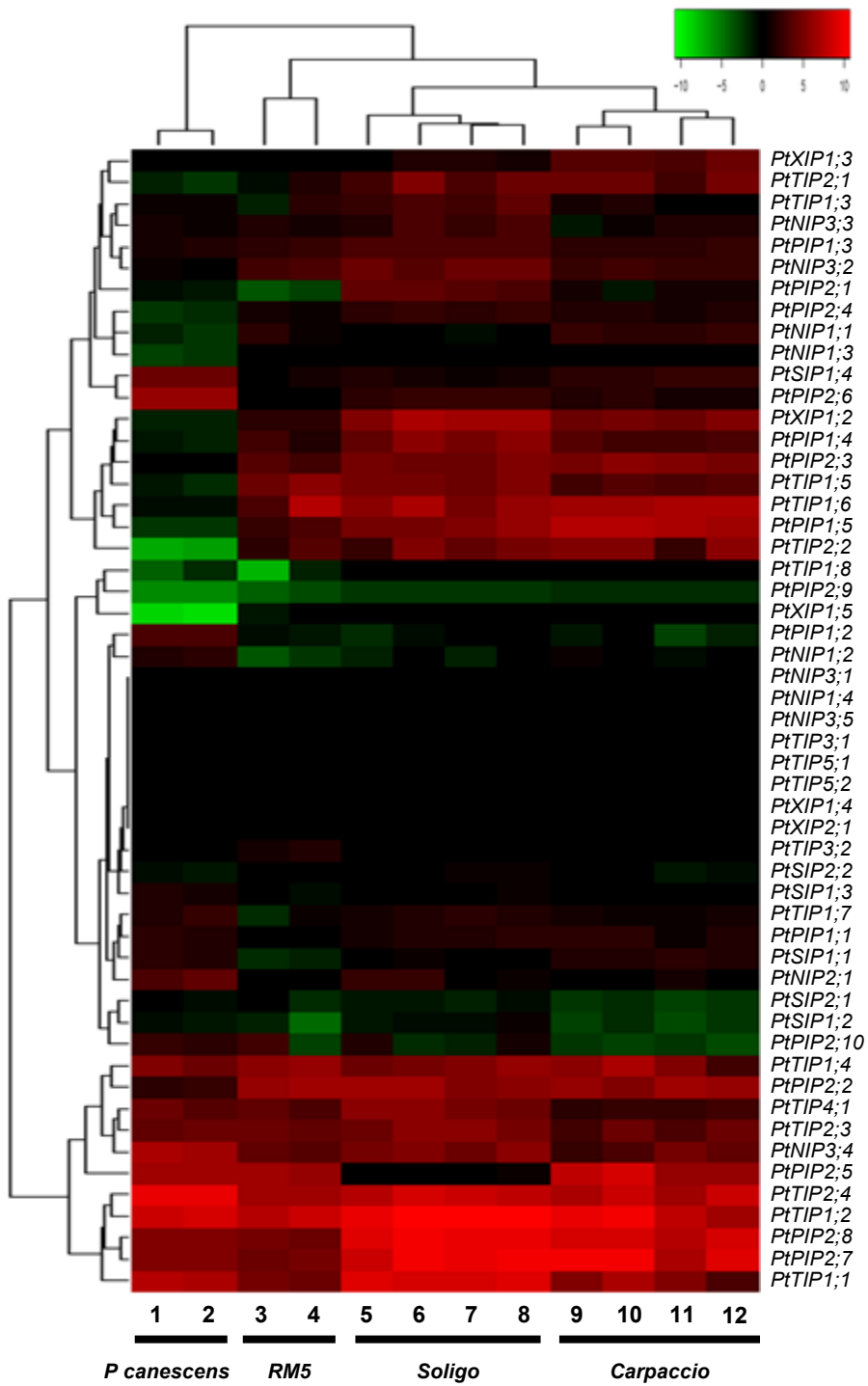


Figure S2