



Supplementary Figure 3. Expression profiles of genes functioning in arsenite uptake, translocation, and tolerance in the leaves of WT and *Ubi::MIR528* plants.

Plants were grown in half-strength Kimura solution and treated with 25 μ M arsenite for 6, 24, 72, and 144 hours, respectively. Relative quantification of expression level of tested functional genes was conducted using real-time

RT-PCR. Expression level was normalized to that of β -tubulin. Fold changes in the expression level were estimated by the $2^{-\Delta\Delta CT}$ method relative to levels in the leaves of WT and *Ubi::MIR528* samples without As(III) treatment (0 hour), respectively. Results are the mean \pm SE for three biological replicates. Four out of 6 tested genes (*NRAMP1*, *PIP2;6*, *PIP2;4*, and *PIP2;7*) were reported to be involved in As tolerance, while *NIP2;1* and *Lsi2* were As(III) uptake, translocation, and accumulation related in rice.