Figure S14

Effect of zinc on transgene mRNA expression and luciferase (LUC) activity driven by the 35S promoter. (A) Real-time RT-PCR analysis of ZIF2.1_{5UTR}-LUC and ZIF2.2_{5UTR}-LUC transcript levels in protoplasts transiently expressing the Pro35S:ZIF2.1_{5UTR}-LUC (orange bars) or Pro35S:ZIF2.2_{5UTR}-LUC (blue bars) constructs under various Zn supplies, using UBQ10 as a reference gene. Results are from two independent experiments and values represent means ± SE (n=4). No statistical differences were detected for each transcript between the different conditions (\(P>0.05\); Student’s t-test). (B) Protoplast transient expression assay using the Pro35S:LUC (reference control) and Pro35S:GUS\textsubscript{mutated} (negative control, no detectable LUC activity) constructs under various Zn supplies. Results are representative of three independent experiments, corresponding to the same assay shown in Figure 9C. Values represent means ± SD (n=4). \(P\) values inside the bars indicate statistical differences for the Pro35S:LUC construct (comparison with 0 µM Zn condition) obtained by Student’s t-test.