



Supplementary Figure S5. Genes *ptz* and *idi* coding for enzymes for cytokinins biosynthesis, are essential for the induction of symptoms in micropropagated olive plantlets. **(A)** Symptoms induced in olive plantlets 90 days after inoculation. **(B)** Average volume and bacterial population of at least three tumors induced by the indicated strains, with bars indicating standard deviation; different letters above bars indicate means that are significantly different according to a two-way ANOVA ($P \leq 0.05$) followed by the Duncan's test. Strains: WT, NCPPB 3335; letters after the Δ symbol indicate the gene(s) or plasmids missing in each strain. Symbols (-) and (+) indicates without or with complementation with the deleted gene(s) cloned in a broad host-range vector, respectively. Results represent the mean of at least two experiments, each with three olive plants inoculated in two places per strain.