



**Supplementary information 1.** A schematic representation of T-DNA region of the plasmid pK7WG2D-GIN. *nos-ter*, *nos-pro* terminator and promoter of nopaline synthase gene, respectively; *NPTII* neomycin phosphotransferase marker gene; *35S-pro*, *T-35S* promoter and terminator of Cauliflower mosaic virus gene, respectively; *EGFP-ER* green fluorescence protein gene; *Cast\_Gnk2-like* gene encoding a Ginkobilobin-2 protein; *prolD* rol root loci D promoter; *RB* right border; *LB* left border.