Supplementary Material

Genetic Transformation of Potato Using the Non-Selection Approach

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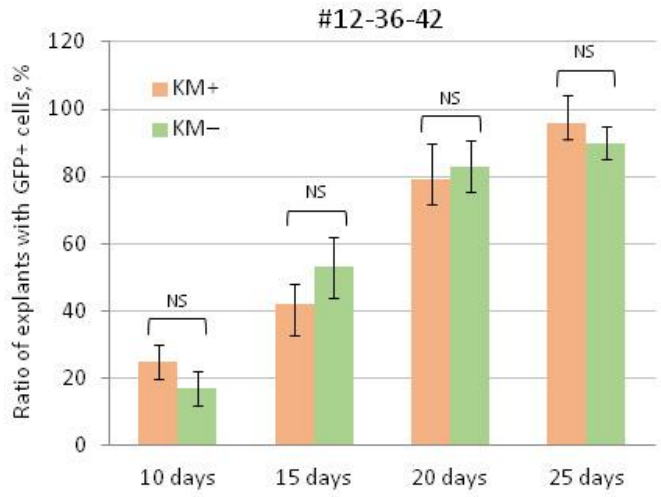

Figure S1. The percentage of explants displaying the GFP expression in cells of potato cv. #12-36-42 under selective- (Km+) and non-selective (KM-) cultivation. ns - indicate statistically non significant differences calculated according t-test ($p \leq 0.05$).

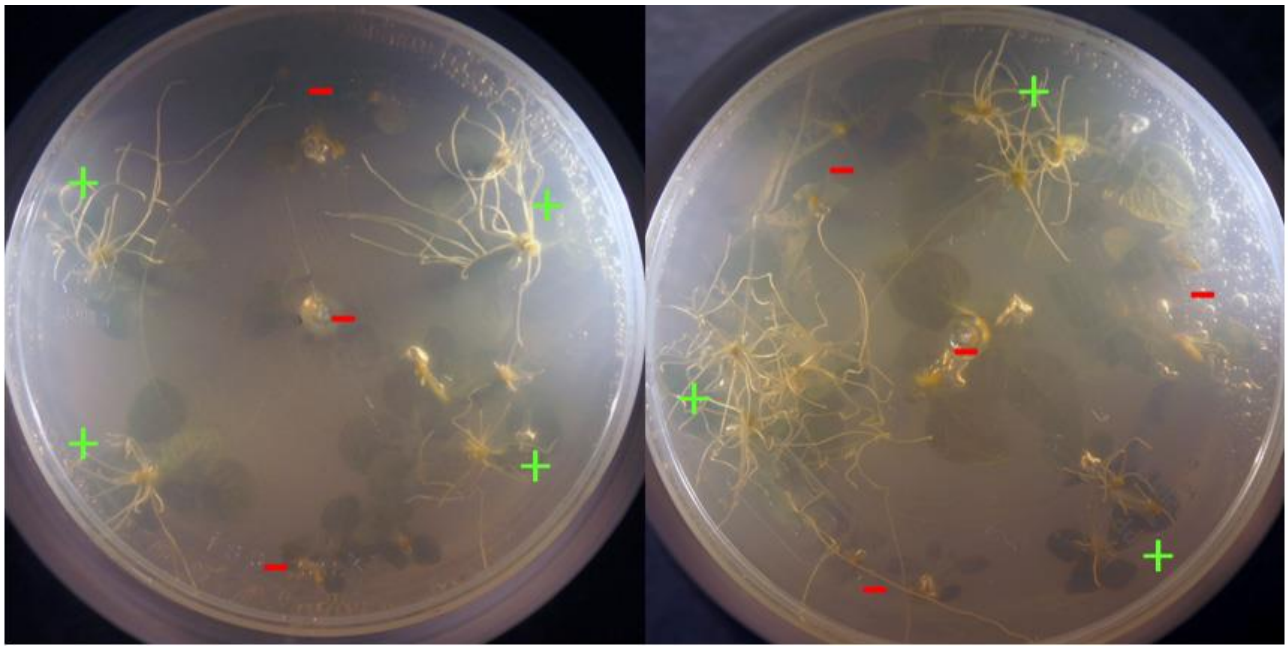

Figure S2. Identification of transgenic events by *in vitro* rooting of putative transgenic plants (cv. #12-36-42) on the medium, supplemented with a lethal dose of kanamicyn (100 mg mg l^{-1}).”+” – indicated transgenic plants successfully rooted after 15 days of cultivation;.”-” – indicated non-transgenic plants failed to rooting

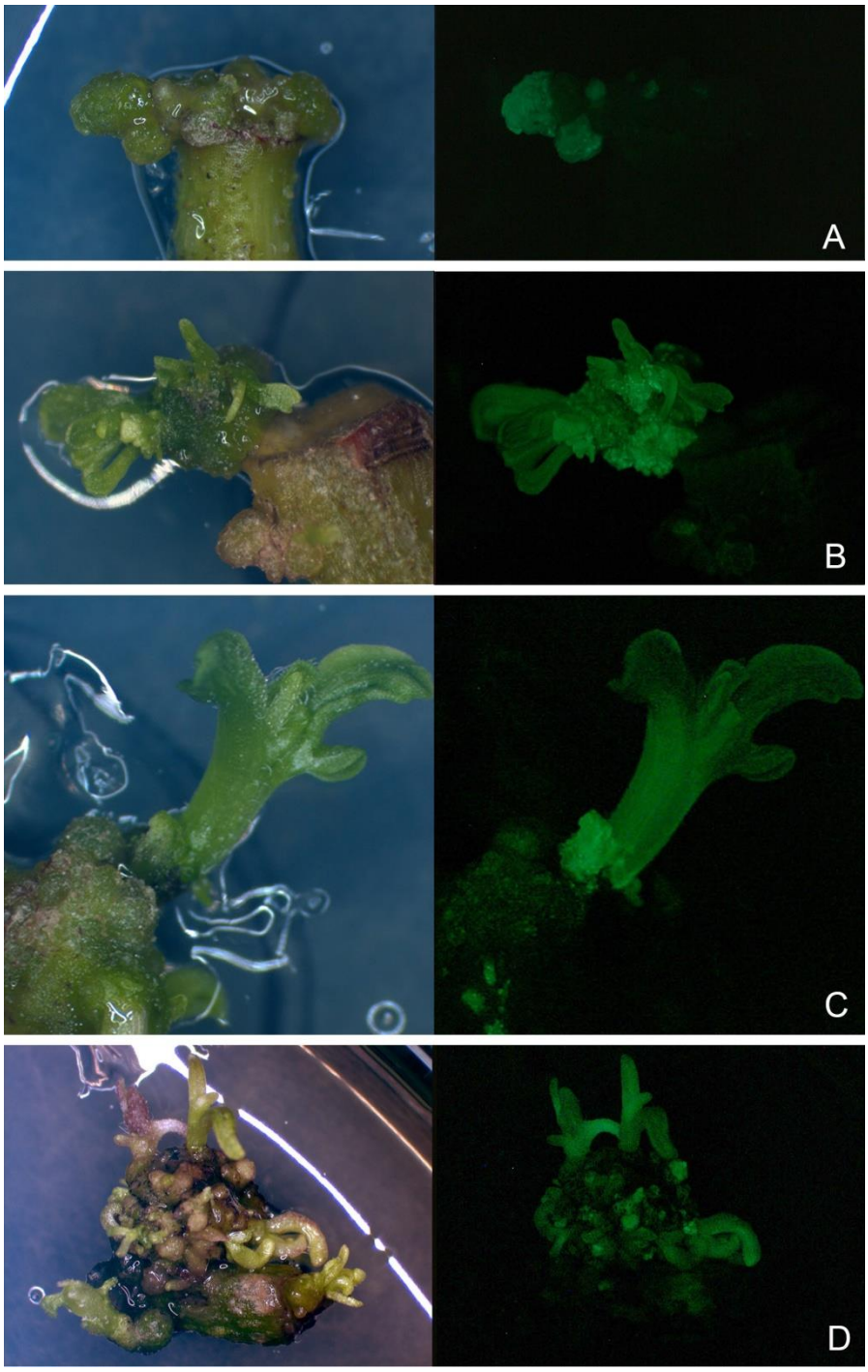

Figure S3. Regeneration of transgenic potato plants under kanamycin assisted conditions. (a) Formation of GFP expressing callus on the cut edge of explant of 'Chicago'; (b) Development of mumerose transgenic buds and plantlets with the GFP expression from the callus of 'Chicago'; (c) Regeneration of the single transgenic plantlet of 'La Strada' with a intensive green fluorescence throughout all tissues; (d) development of multople transgenic shoots of 'Pirol' from cultivated explant at 65 day after agrobacterial transformation..

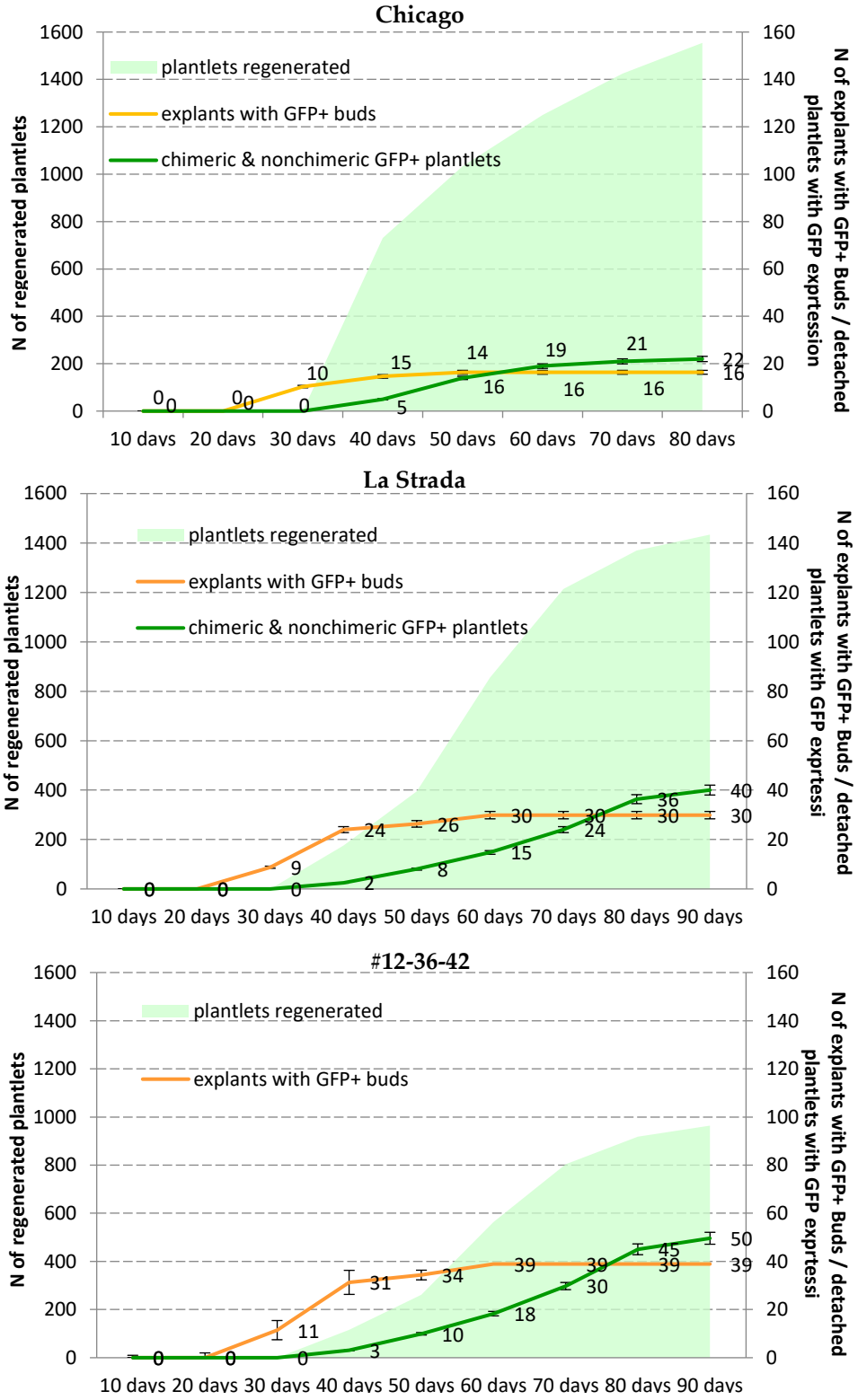

Figure S4. Genotype-dependant timeline for formation of GFP expressed buds and plantlets of 'Chicago' ('early/intermediate' type of regeneration), 'La Srada' ('intermediate' type of regeneration) and #12-36-42 (intermediate/late type of regeneration) under non selective conditions in comparison with the all regenerated shoots.