Table S1. Primers used in PCR studies to detect introduced gene(s) in primary potato transformants

Primer	Sequence (5′-3′)	Product size/bp	*t*(annealing)/°C
npt-II	F: TTGCTCCTGCCGAGAAAG R: GAAGGCGATAGAAGG CGA	450	55
gusA	F: CCCTTACGCTGAAGAGATGC R: GAGCGTCGCAGAACATTACA	362	55
chvA	F: CGAAACGCTGTTCGGCCTGTGG R: GTTCAGCAGGCCGGCATCCTGG	890	65

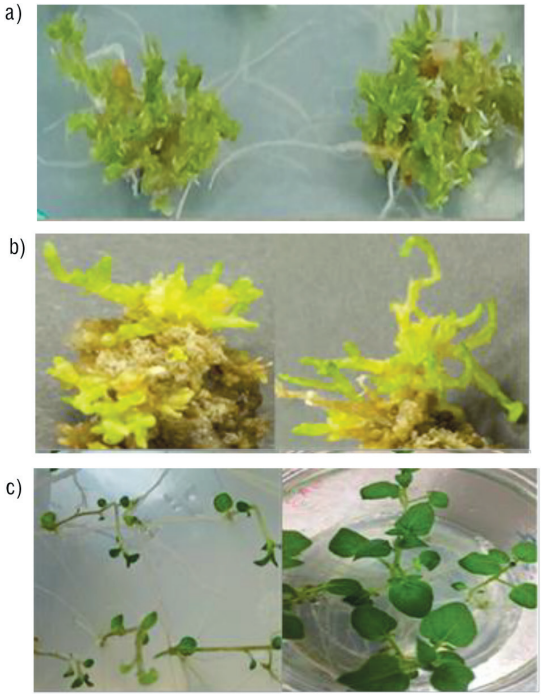

Fig. S1. Different steps of genetic transformation of potato cultivars: a) regenerated calli from internodal explants of Lady Olympia cultivar, b) regenerated resistant calli from Agria cultivar, and c) putative transformed shoots on selection media with induced roots, ready for acclimatization

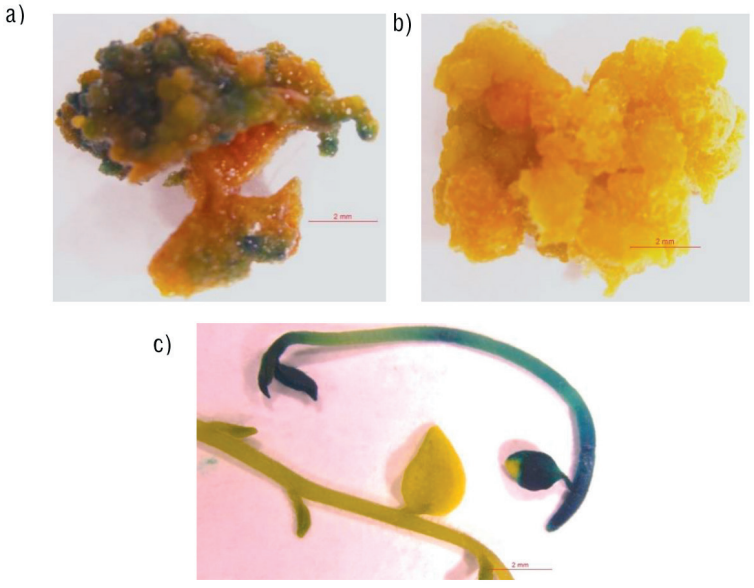

Fig. S2. GUS histochemical assay used at various stages of potato transformation: a) resistant internodal explants on regeneration selection media, b) non-transgenic calli, and c) GUS expression in *in vitro* transgenic plants at later stage