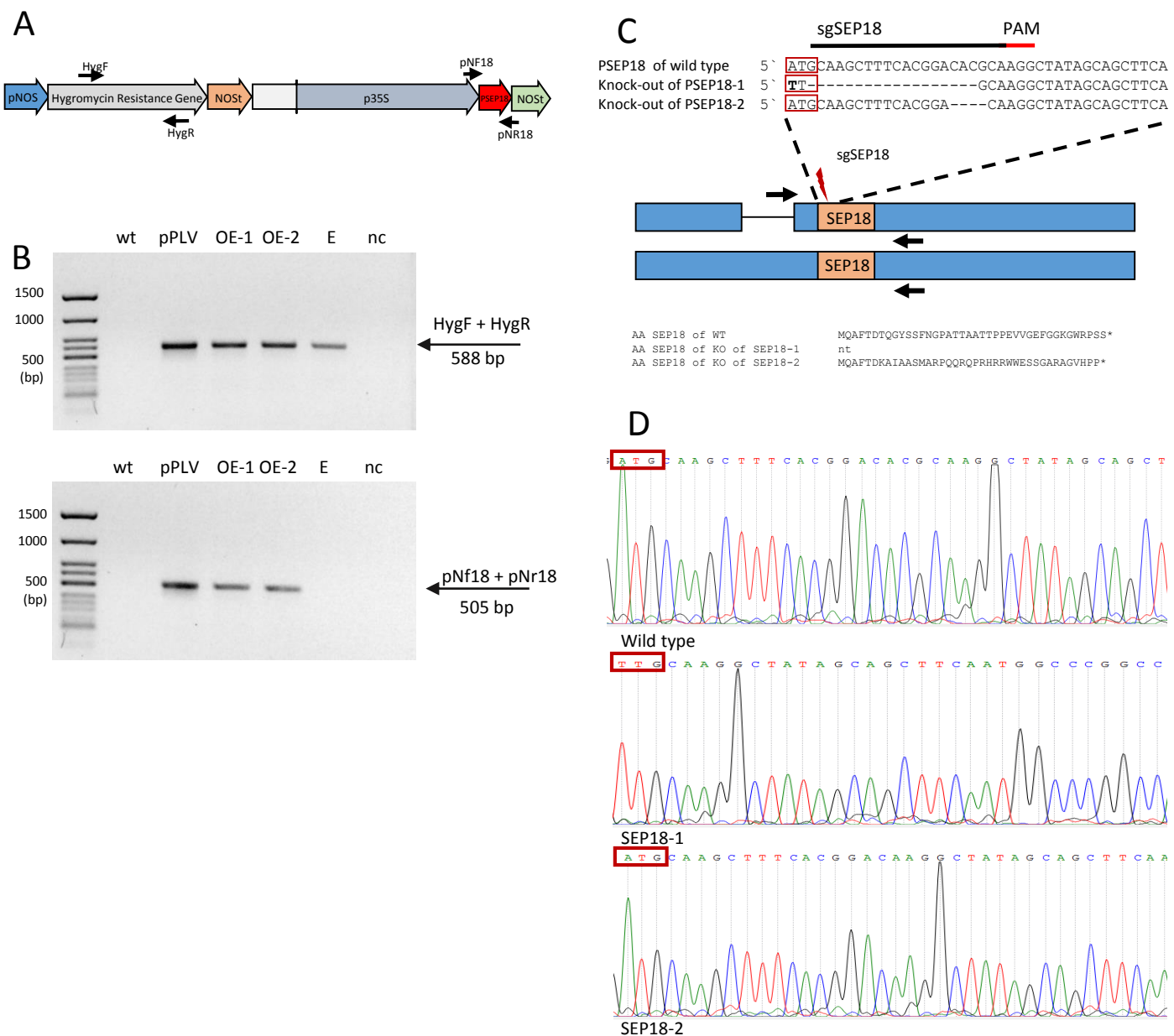




Supplemental Fig. S12. Construction of the overexpressed and knockout *PSEP18* mutant lines.

A. Scheme of the expression cassette used for obtaining overexpressed *PSEP18* lines. The NOS promoter and terminator (pNOS and NOS_t), specific promoters (p35S), specific primers (pNf18, pNr18, HygF and HygR), sORF sequence (*PSEP18*) are indicated. **B.** The results of PCR analysis of expression cassette integration. Fragments length: 588 bp for HygF and HygR pair. wt- wild type, pPLV - pPLV-Hpa-18FR-SacI plasmid, OE1, OE2, - *PSEP18* over-expressed lines, E – control transformed by empty plasmid, nc - negative control. **C.** Scheme of an sgRNA targeting of *PSEP18* (sgSEP18). Knock-out lines of *PSEP18* harbor substitution of A and frameshift deletions. *Black arrows* indicate the positions of sequencing primers. *Red frames* indicate the positions of start codon. **B.** Sanger sequencing confirmed deletion of four nucleotides and substitution A/T of wild type and *PSEP18* knock-out lines.