

Figure S1. Average tuber weight in transgenic *Solanum tuberosum* cv. Désirée CC lines grown for two months in greenhouse under long-day conditions. Numbers inside the bars represent the number of plants per line (n). Error bars represent mean \pm SEM. Student's t-test was used at $p < 0.05$ (* $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$, ns, not significant). CC lines marked with red arrowhead were selected for further studies. We refer CC-1 lines (D4 and D6), CC-2 lines (D1 and D7), and CC-3 lines (D6 and D17) as respective #1 and #2 lines.

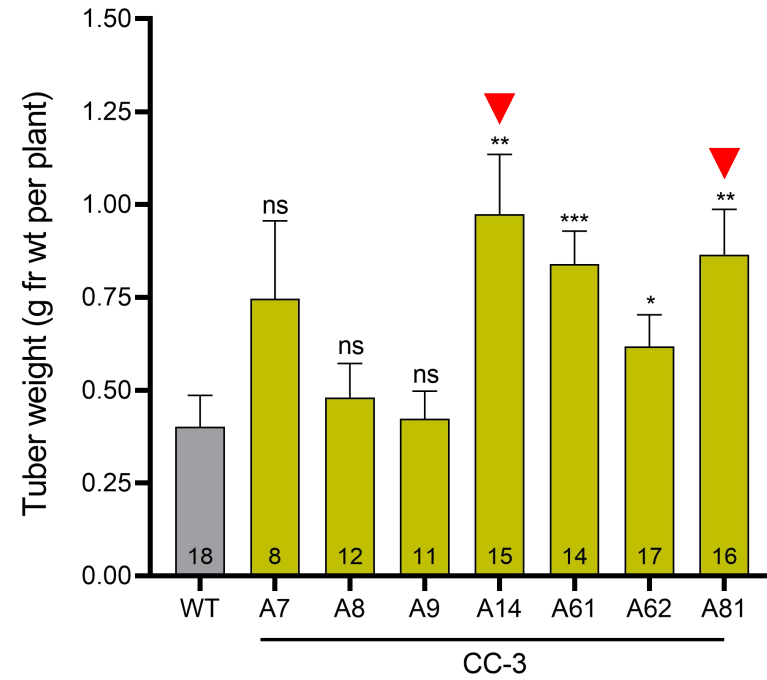


Figure S2. Average tuber weight in transgenic *Solanum tuberosum* ssp. *andigena*. CC lines grown in plant growth chamber. The plants were first grown for 10-weeks under long-day conditions, following which they were subjected to a short-day photoperiod induction for three weeks before harvesting the plants for tuber data. Numbers inside the bars represent the number of plants per line (n). Error bars represent mean \pm SEM. Student's t-test was used at $p < 0.05$ (* $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$, ns, not significant). In the main figure and the manuscript text hereafter, CC-3 lines marked with red arrowhead (A14 and A81) are referred as #1 and #2 line, respectively.