Transformation

MiniPrep

Start a culture. Use the available kits.

Digestion

- 1. Measure DNA concentration, and adjust the volume to fit the amount of DNA recommended in the protocol [plasmid 2 μ l 0.5 g/ml, PCR 10 μ l 0,02 g/ml] . (p.43 Fermentas enzyme catalogue).
- 2. Prepare for (5 + vector) digestion reactions, using a double digestion. (p.43 Fermentas enzyme catalogue). Restriction enzymes to use are EcoR1 and Pst1 and do the digestion.

3. Purify by running on column according *Nucleo Spin*® *Extract 2 PCR cleanup* protocol

Ligation

- 1. Combine 38 fmol of vector with a three time molar excess of insert, adjust volume to $10 \mu l$ with dH_2O .
- 2. Add 10 µl of 2X Quick ligation buffer and mix.
- 3. Add 1 µl of T4 DNA ligase and mix.
- 4. Spin down and incubate at room temperature for 5 min.

Transformation

Use either the transformation protocol from Open wet ware $\underline{1}$ (meticulous) or the one included from Quick LigationTM Kit (Fast]

1. psb1a3