

# Transformation

For PCR Product:

1. For C2987H: Thaw a tube of NEB Turbo Competent E. coli cells on ice for 10 minutes.
2. Add 1-5  $\mu\text{l}$  containing 1 pg-100 ng of plasmid DNA to the cell mixture. Carefully flick the tube 4-5 times to mix cells and DNA. Do not vortex.
3. Place the mixture on ice for 30 minutes. Do not mix.
4. Heat shock at exactly 42°C for exactly 60 seconds. Do not mix.
5. Place on ice for 2 minutes. Do not mix.
6. Spread 50-100  $\mu\text{l}$  of the mix onto a selection plate and incubate overnight at 37°C.

For Purified DNA:

7. For C2987H: Thaw a tube of NEB Turbo Competent E. coli cells on ice for 10 minutes.
8. Add 1  $\mu\text{l}$  containing 1 pg-100 ng of plasmid DNA and 10  $\mu\text{l}$  of cells to an eppendorf tube. Carefully flick the tube 4-5 times to mix cells and DNA. Do not vortex.
9. Place the mixture on ice for 30 minutes. Do not mix.
10. Heat shock at exactly 42°C for exactly 60 seconds. Do not mix.
11. Place on ice for 2 minutes. Do not mix.
12. Streak 5  $\mu\text{l}$  of the mix onto a selection plate and incubate overnight at 37°C.