For pooled library

Use MegaX DH10B ( >3 x 1010 cfu/μg) electrocompetent cells ( Fisher cat# C640003) to achieve higher complexity.

1) Mix 200ng of pooled library with 90ul of MegaX cells.

2) Transform using the manufacturer’s suggested protocol (2.0kV, 200 ohms, 25uF in 0.1cm cuvette).

3) Recover in 2mL total with SOC for 2 hours while shaking at 37C

4a) Take 5ul of recovery. Make serial dilutions and plate with beads to calculate transformation efficiency.

4b) Add the rest of recovery to 1 L LB+Carb. Grown O/N while shaking @ 37C (16h)

5) Calculate transformation efficiency next day. If total colony # is more than 100-200M, harvest cells and purify the library.

6) Depending on your pellet weight use multiple Maxiprep columns (Sigma or Zymogen), or a Gigaprep (Qiagen, Sigma, Zymogen).