Preparing clones for sequencing

Overnight cultures and archiving of clones

- 1. Prepare an archive LB + ampicillin + X-gal + IPTG plate by making a grid on the back of the Petri dish with a felt pen. Grid cells should be approximately 1 x 1 cm; number each cell.
- 2. For each colony you intend to test, fill a 0.2 mL PCR tube with 50 μl sterile water. Number the tubes.
- 3. Select single white colonies from plates with a pipette tip. Gently streak the colony across a grid on the other plate. Do not discard the tip.
- 4. Take the same tip and place it in the appropriately numbered PCR tube.
- 5. Repeat for each colony you intend to test.
- 6. Cover the plate and incubate at 37° C overnight. Remove the pipette tips from the tubes.
- 7. Place the tubes in a thermocycler. Incubate at 99° C for 10 minutes.
- 8. Cool the tubes to room temperature and proceed with colony PCR (link)

Growing cells for Plasmid Isolation

- 1. For each colony to be sequenced, prepare a 15 mL tube with 5 mL of LB broth with 100 µg/mL of ampicillin.
- 2. Select colonies with known inserts and touch with a pipette tip.
- 3. Place the tip in LB culture and grow at 37° C shaking incubator overnight. Use this culture in the plasmid isolation protocols (1,2).

Materials necessary

15 ml culture tubes LB broth 100 mg/ml ampicillin stock LB + amp + X-gal + IPTG 0.2 ml PCR tubes Sterile DI water 10, 20, and 1000 µl pipette tips

Equipment necessary

37° C incubator 37° C shaking incubator 1000 µL micropipette 10 µl micropipette