Annealing Oligos

Introduction

Anealing Oligos

Materials

- > Nuclease-free TE
 - > We resuspend in TE to help supress nuclease activity that would degrade the primers.
- > 1M NaCl solution (in water)
- Dehydrated oligos from IDT
- One thin-walled 200 ul PCR tube
- One epi tube (required), plus another (optional)

Procedure

Preparing oligos

- 1. Resuspend the oligos at 100 uM, as described in "Resuspending Primers"
- 2. Set up a thermocycler program for the following annealing program:
 - Heat to 95° for 2 minutes
 - Every 1'30", decrease the temperature by 1° to a final temperature of 25°
 - Hold at 4°

Procedure

- 3. In the thin-walled PCR tube, mix:
 - 75 μ l nuclease-free TE
 - 5 μl 1M NaCl
 - 10 μl oligo #1
 - 10 μl oligo #2
 - -(This is 10uM)
- 4. Place tube in the thermocycler and run the annealing program
- 5. Transfer annealed oligo to the epi tube. Label with name and concentration (10 μ M) and store at -20°C.
- 6. For setting up Golden Gate reactions: $1 \mu M$ is 1000 fmol/ μI . If your desired input to a GoldenGate reaction is 50 fmol, then:
 - Add 199 μ I of TE to the second epi tube
 - Add 1 μ I of the 10 μ M duplex

- Mix well, label with name and concentration (50 fmol/ μ l) and store at -20°.