General transformation protocol

1. Thaw JM109 cells on ice
2. Transfer 50ul to pre-chilled 14-mL round bottom tube
3. Transfer 50-100ng DNA plasmid (dilute the plasmid to ~50-100ng/uL) to the tube. Mix well by tapping the tube
4. Incubate the cell/plasmid mixture on ice for 30 min
5. Heat shock at 42^{o}C for 45sec
6. Place the tube immediately on ice for 2min
7. Add 950 uL SOC medium to the mixture
8. Shake at 225rpm @ 37^{o}C for 1hr
9. Plate 150uL cells onto LB+antibiotic plate (pre-warm at room temperature)
10. ** Optional: you can spin down the rest of the cells, remove most of the supernatant, leave ~100uL in the tube. Resuspend again and spread on the plate.
11. Incubate the plates in the incubator @37^{o}C O/N (check incubator if it's at the right temperature.)