Transformation protocol

1. Take a vial of competent cell and thaw it on ice. Separate the cells into 50 µl each vial.
2. Add 1~10 µl of ligation product into 50 µl competent cells.
3. Place the mixture on ice for 30 minutes.
4. Heat shock the mixture in 42℃ water bath for 40~60 seconds, then put it back on ice for 3~5 minutes.
5. Add 1 ml LB broth into each vial, incubating at 37℃ for 1 hour.
6. Take the LB agar plate out of 4℃ to warm up. Add and spread proper antibiotic 20 µl on the plate with beads.
7. Centrifuge the competent cell at 3000 rpm, 5 min after incubation.
8. Discard 950 µl supernatant, leaving about 100 µl LB to resuspend the pellet.
9. Add the remaining LB and cell mixture onto agar plate, and spread it with beads.
10. Put the plate into 37℃ incubator overnight.