

## Materials

### 1. antibiotic

Ampicillin: dissolved in distilled water and the final concentration is 100mg/ml

Chloromycetin : dissolved in absolute ethyl alcohol and final concentration is 25 mg/ml

Kanamycin: dissolved by distilled water and final concentration is 50 mg/ml

### **Bleomycin**

homomycin

G418

### 2. Maker

Trans 2K DNA Maker

Trans 2K plus DNA Maker

Trans 1KB DNA Maker

Trans 2K plus II DNA Maker

All from Trans Gen Biotech

### 3. Buffer

6X DNA Loading buffer

Biotech

Trans Gen

2× Primer star CG buffer

TaKaRa

2× Taq PCR Master Mix

Biomed

10× T4 DNA Ligase Buffer

TaKaRa

10× Fast Digest Green Buffer

Scientific

10× Fast Digest Buffer

Scientific

5× Fast Pfu Buffer

Trans Gen Biotech

5× FastPfu Fly Buffer

Trans Gen Biotech

### 4.

T4 DNA Ligase

Thermo

Scientific

Primer star HS DNA polymerase

TaKaRa

Trans Start FastPfu DNA polymerase

Trans Gen Biotech

Trans Start FastPfu Fly DNA polymerase

Trans Gen Biotech

Fast Digest Dpn I

Thermo

Scientific

Fast digest EcoR I

Thermo

Scientific

Fast digest Pst I	Thermo
Scientific	
Fast digest Xba I	Thermo
Scientific	
Fast digest Spe I	Thermo
Scientific	
Fast digest Not I	Thermo
Scientific	
Fast digest Bamh I	Thermo
Scientific	
Fast digest Sal I	Thermo
Scientific	

5.

10% glycerol: 12.6g glycerol dissolved in 90 ml of water.

50%glycerol: use distilled water to dilute 50ml glycerol twice as much

50%fructose:50 grams of fructose dissolved in 100 ml of the solution

50%glucose:50 grams of glucose dissolved in 100 ml of the solution

6.absolute ethyl alcohol

7.ddH2O

8. Agarose Gel Electrophoresis:

Golden View from Biomed

BIOWEST REGULAR AGAROSE G-10

1XTAE: Diluted with 50Xtae

50XTAE: Tris 242g, Na2EDTA·2H2O 37.2g, 57.1ml glacial acetic acid,1L water

9. High pure dNTPs from Trans Gen Biotech

10. Bacteria

TOP10 from Biomed

DH5  $\alpha$  from Biomed

11.Golden View from Biomed

12.Kit

TIANGel Midi Purification Kit

Thermo Scientific

TIANprep Mini plasmid Kit

TIANGEN BIOTECH

TIANamp Yeast DNA Kit

TIANGEN BIOTECH

13. PEG(50% w/v)

14. 1.0M LiAc 0.1M LiAc

15. SS-DNA (10.0mg/ml)