

## Materials

### 1. antibiotic

Ampicillin  
Chloromycetin  
Kanamycin  
Bleomycin  
Homomycin  
G418

### 2. Marker

Trans 2K DNA Marker  
Trans 2K plus DNA Marker  
Trans 1KB DNA Ladder  
Trans 2K plusII DNA Marker  
All from TransGen Biotech

### 3. Buffer

6XDNA Loading Buffer	TransGen Biotech
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	TransGen Biotech
5×FastPfu Fly Buffer	TransGen Biotech

### 4. enzyme

T4 DNA Ligase	Thermo Scientific
Primer star HS DNA polymerase	TaKaRa
Trans Start FastPfu DNA polymerase	TransGen Biotech
Trans Start FastPfu Fly DNA polymerase	TransGen Biotech
Fast Digest DpnI	Thermo Scientific
Fast digest EcoRI	Thermo Scientific
Fast digest PstI	Thermo Scientific
Fast digest XbaI	Thermo Scientific
Fast digest SpeI	Thermo Scientific
Fast digest NotI	Thermo Scientific
Fast digest BamHI	Thermo Scientific
Fast digest Sall	Thermo Scientific

### 5. sweetener

fructose

sucrose  
Glycyrrhizinate  
lactose

6. absolute ethyl alcohol

7.ddH<sub>2</sub>O

8. Agarose Gel Electrophoresis:

Golden View from Biomed

BIOWEST REGULAR AGAROSE G-10

50×TAE: Tris 242g, Na<sub>2</sub>EDTA·2H<sub>2</sub>O 37.2g, 57.1ml glacial acetic acid, 1L water

1×TAE: diluted with 50×TAE

9. High pure dNTPs from TransGen Biotech

10. Bacteria

TOP10 from Biomed

DH5α from Biomed

11.Kit

TIANGel Midi Purification Kit

TIANprep Mini plasmid Kit

TIANamp Yeast DNA Kit

Thermo Scientific

TIANGEN BIOTECH

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12. PEG(50%w/v)

13. 1.0M LiAc    0.1M LiAc

14. SS-DNA(10.0mg/ml)