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CLONING

PCR CLONING VECTORS

E. coli TRANSFORMATION KIT

279 B
5'-GGG
3'-CCC

GCT
CGA

GGT
CCA



GetClone™ PCR Cloning Vector TR-BS1-1005 (20 Rxn) TR-BS1-1006 (20 Rxn)

Description

The GetClone™ PCR Cloning Vector is a positive selection system for high efficiency cloning of blunt end DNA or amplicons. This cloning vector contains a lethal gene which can be disrupted by ligation of a blunt end DNA insert at the cloning site. Only colonies with inserted vectors are able to propagate, eliminating the need for IPTG and X-Gal for blue/white screening. The GetClone™ pGet II vector includes ampicillin and kanamycin resistance genes that can meet the needs of most users.

Features

1. Cloning efficiency greater than 90%
2. IPTG and X-Gal not required
3. Accepts a wide range of insert/vector ratios 0.5:1 to 12:1
4. Accepts insert sizes of 6 bp to 12 kb
5. The phosphorylation of PCR fragments is not required.
6. Accepts blunt end amplicon or DNA fragment (not for sticky ends)
7. Resistance to ampicillin and kanamycin (pGet II)

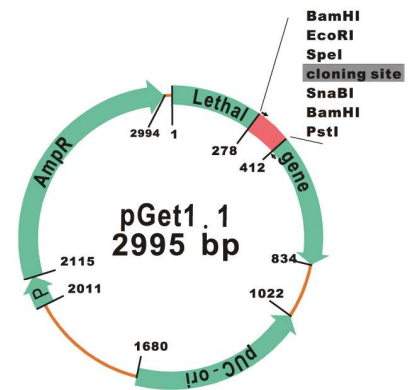
TR-BS1-1005 (50 ng/ul) GetClone™ PCR Cloning Vector

Contents

Component	Volume
pGet1.1 Vector	23 µl
pGet-For Primer (10 µM)	100 µl
pGet-Rev Primer (10 µM)	100 µl

Storage

-20°C for 24 m



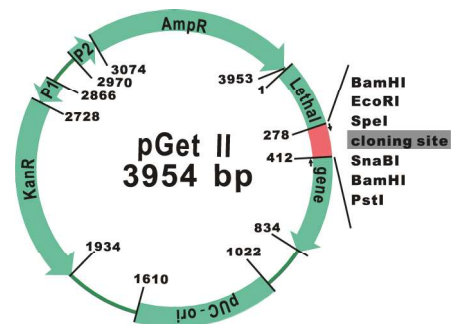
TR-BS1-1006 (25 ng/ul) GetClone™ PCR Cloning Vector II

Contents

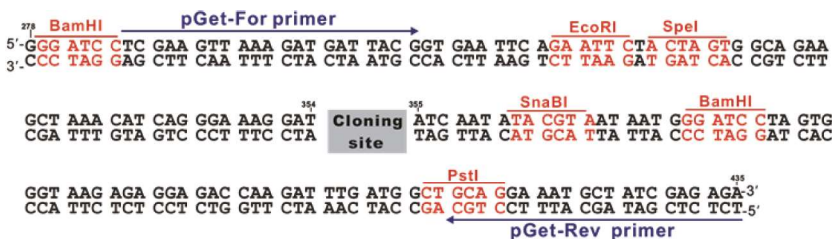
Component	Volume
pGet II Vector	23 µl
pGet-For Primer (10 µM)	100 µl
pGet-Rev Primer (10 µM)	100 µl

Storage

-20°C for 24 months



Cloning sites of GetClone™ PCR Cloning Vector (for both TR-BS1-1005 and TR-BS1-1006)



Tk *E. coli* Transformation Kit

Champion™ *E. coli* Transformation Kit TR-BS1-1007 Flexible/High Efficiency/Fast and Easy

Description

Champion™ *E. coli* Transformation Kit provides an easy method for rapid preparation of chemically competent cells with high transformation efficiency from fresh culture, overnight culture, or even directly from bacterial colonies on the plate. The competent cell preparation method eliminates the requirement of time-wasting wash step. In addition, preparation of competent cells from overnight culture or directly from bacterial colonies provides flexibility to cloning experiments. The resultant competent cells can be immediately used or stored at -70°C for one year.

This kit includes a specialized SMO-Broth™ medium and a unique Champion™ CC Buffer for culturing and preparing competent cells efficiently. Following the simple and quick competent cell preparation protocol from fresh culture, the transformation efficiency is typically ranged from 10⁸ to 10⁹ transformants/μg of pUC19 plasmid DNA, but varies depending on the *E. coli* strains.

The resultant competent cells can be further transformed using time-saving transformation protocol, eliminating the requirement of heat-shock and recovery steps.

Kit Contents

Component	Volume
Champion™ CC Buffer	20 ml
SMO-Broth™	100 ml x 2
pUC19 Control Plasmid (10,4 μg/μl)	5 μl
Instruction Manual	1
Champion™ Competent Cell Preparation Card	1

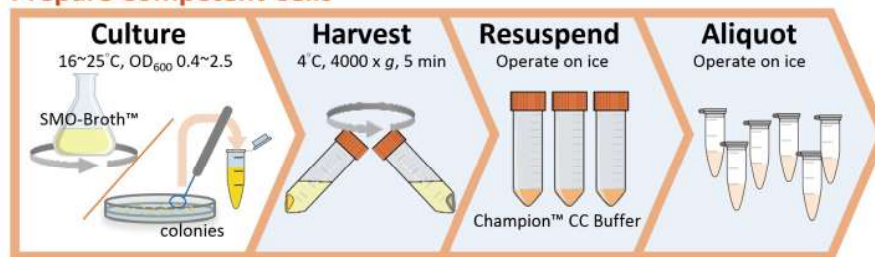
Storage

4°C for 12 months

- Flexible – fresh culture, overnight culture, 4°C stored liquid culture or even colonies on agar plate can be used for transformation.
- Fast and Easy – only few steps for preparation; suitable for time-saving transformation
- High efficiency – up to 10⁹ cfu/μg
- Personalization – suitable for most *E. coli* strains

Champion™ *E. coli* Transformation Protocol

Prepare Competent Cells



Time-Saving Transformation

