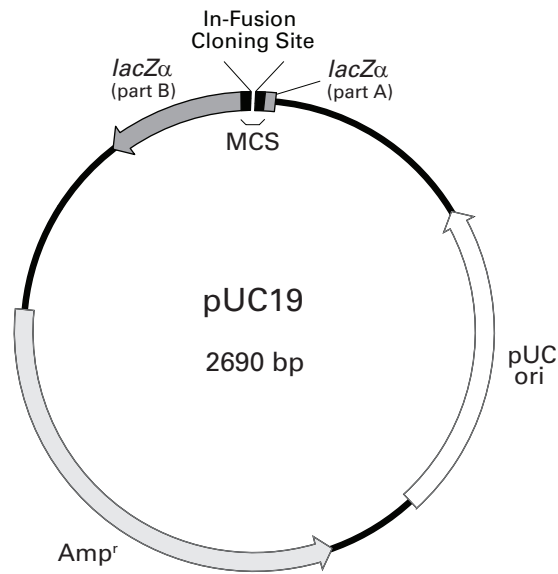


**pUC19 Linearized Vector Information**

PT4065-5

Sold as part of Cat. Nos. 639619  
639620  
639621



**pUC19 Linearized Vector Map and Multiple Cloning Sites (MCS).**

**Description**

pUC19 is a commonly used, high copy number cloning vector. This linearized version was generated by PCR, and contains the blunt ends shown in the MCS sequence above. The vector encodes the N-terminal fragment of β-galactosidase (*lacZα*), which allows for blue/white colony screening (i.e., α-complementation), as well as a pUC origin of replication and an ampicillin resistance gene that allow propagation and selection in *E. coli*.

**Use**

The pUC19 Linearized Vector is provided as part of the In-Fusion™ Advantage PCR Cloning Kit (Cat. Nos. 639619, 639620, and 639621), and is intended to serve as a control for In-Fusion cloning.



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**Location of features**

- *lacZ* $\alpha$  (N-terminal fragment of  $\beta$ -galactosidase; part A): 1–52 (complementary)
- pUC origin of replication: 450–1038 (complementary)
- Amp<sup>r</sup> (Ampicillin resistance gene;  $\beta$ -lactamase): 1209–2069 (complementary)
- *lacZ* $\alpha$  (N-terminal fragment of  $\beta$ -galactosidase; part B): 2415–2690 (complementary)

**Propagation in *E. Coli***

- Recommended host strain: DH5 $\alpha$ , XL1 Blue, and other general purpose strains.
- Selectable marker: plasmid confers resistance to ampicillin (50  $\mu$ g/ml) in *E. coli* hosts.
- *E. coli* replication origin: pUC
- Copy number: high
- Plasmid incompatibility group: pMB1/ColE1

**References**

1. Yanisch-Perron, C., *et al.* (1985) *Gene* 33(1):103-119.

**Notice to Purchaser**

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