# pMC1neo and pMC1neo Poly A Vectors

## Instruction Manual

**Catalog #213201**

Revision C0

**For Research Use Only. Not for use in diagnostic procedures.**

213201-12

Agilent Technologies

# LIMITED PRODUCT WARRANTY

This warranty limits our liability to replacement of this product. No other warranties of any kind, express or implied, including without limitation, implied warranties of merchantability or fitness for a particular purpose, are provided by Agilent. Agilent shall have no liability for any direct, indirect, consequential, or incidental damages arising out of the use, the results of use, or the inability to use this product.

# ORDERING INFORMATION AND TECHNICAL SERVICES

## Email

techservices@agilent.com

## World Wide Web

www.genomics.agilent.com

## Telephone

| Location | Telephone |
|---|---|
| **United States and Canada** | 800 227 9770 |
| **Austria** | 01 25125 6800 |
| **Benelux** | 02 404 92 22 |
| **Denmark** | 45 70 13 00 30 |
| **Finland** | 010 802 220 |
| **France** | 0810 446 446 |
| **Germany** | 0800 603 1000 |
| **Italy** | 800 012575 |
| **Netherlands** | 020 547 2600 |
| **Spain** | 901 11 68 90 |
| **Sweden** | 08 506 4 8960 |
| **Switzerland** | 0848 8035 60 |
| **UK/Ireland** | 0845 712 5292 |
| **All Other Countries** | Please visit *www.agilent.com/genomics/contactus* |

## CONTENTS

# pMC1neo and pMC1neo Poly A Vectors

## MATERIALS PROVIDED

| Material Provided | Quantity |
|---|---|
| pMC1neo | (25 µg) |
| pMC1neo poly A | (25 µg) |
| AG1 Strain: *recA1, endA1, gyrA96, thi-1, hsdR17,* ($r_k$–, $m_k$+), *supE44, relA1,* (uncharacterized mutation improves transformation efficiency) | 0.5 ml |

## STORAGE CONDITIONS

**Vectors:** –20°C
**AG1 Strain (Bacterial Glycerol Stock):** –80°C

## VECTOR SEQUENCES

The complete sequence and list of restriction sites for the pMC1neo and pMC1neo Poly A vectors are available at *www.genomics.agilent.com.*

## PREPARATION OF HOST CELLS

The host strain has been sent as a glycerol stock. For the appropriate media and plates, please refer to the following table:

| Bacterial strain | Plates for bacterial streak | Media for glycerol stock |
|---|---|---|
| AG-1 | LB agar | LB agar |

On arrival, prepare the following from the glycerol stock:

***Note*** *Do not allow the contents of the vial to thaw. The vials can be stored at –20 or –80°C, but most strains remain viable longer if stored at –80°C.*

1. Revive the stored cells by scraping off splinters of solid ice with a sterile wire loop.

2. Streak the splinters onto an LB agar plate. Restreak the cells fresh each week.

Revision C0

## PREPARATION OF A –80°C GLYCEROL STOCK

1. In a sterile 50-ml conical tube, inoculate 10 ml of the appropriate broth with one or two colonies from the plate. Grow the cells to late log phase.

2. Add 4.5 ml of a sterile glycerol–broth solution (5 ml of glycerol + 5 ml of broth) to the bacterial culture from step 1. Mix well.

3. Aliquot into sterile centrifuge tubes (1 ml/ tube).

This preparation may be stored at –20°C for 1–2 years or at –80°C for more than 2 years.

## Vector Maps

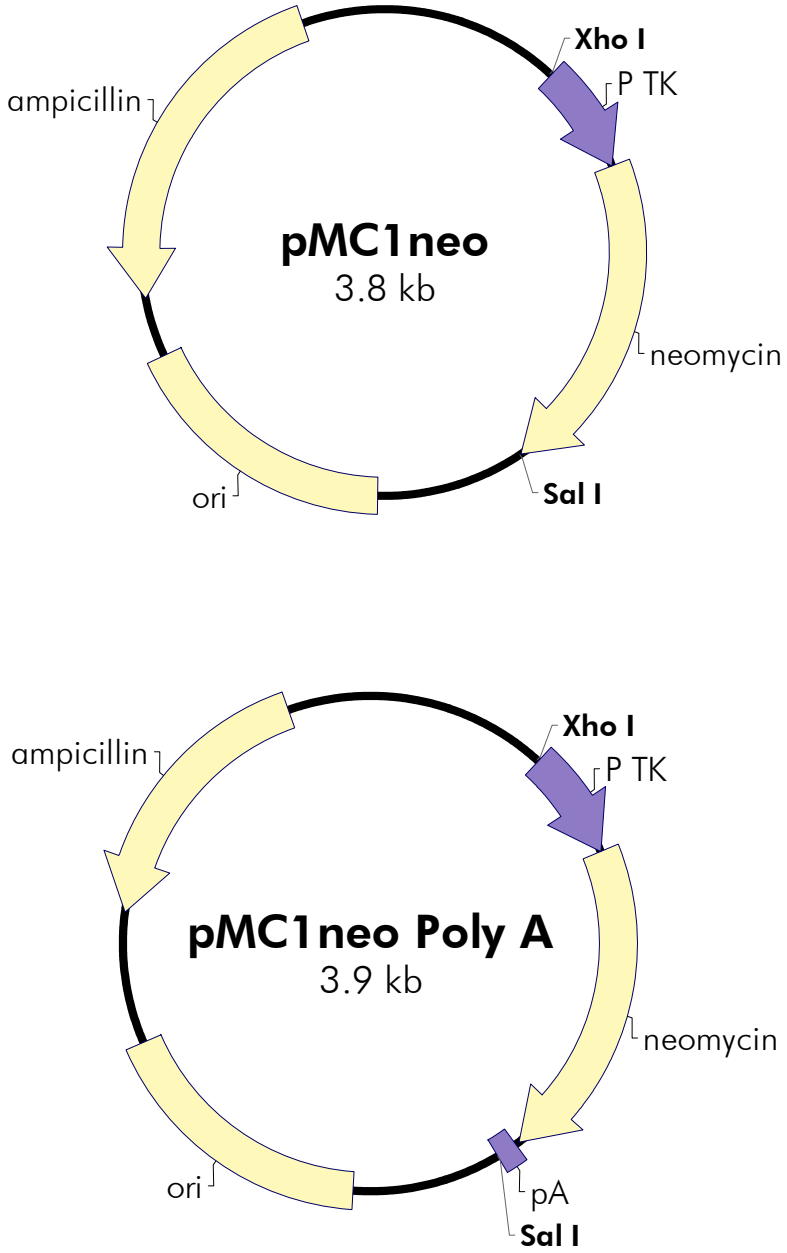


**FIGURE 1** Map of the pMC1neo vector (top) and pMC1neo Poly A vector (bottom). The complete sequence and list of restriction sites for the vectors are available at *www.genomics.agilent.com*.

## PREPARATION OF MEDIA AND REAGENTS

| LB Broth (per Liter) | LB Agar (per Liter) |
|---|---|
| 10 g of NaCl<br>10 g of tryptone<br>5 g of yeast extract<br>Add deionized $H_2O$ to a final volume of 1 liter<br>Adjust to pH 7.0 with 5 N NaOH<br>Autoclave | 10 g of NaCl<br>10 g of tryptone<br>5 g of yeast extract<br>20 g of agar<br>Add deionized $H_2O$ to a final volume of 1 liter<br>Adjust pH to 7.0 with 5 N NaOH<br>Autoclave<br>Pour into petri dishes (~25 ml/100-mm plate) |

## REFERENCE

1. Thomas, K. R. and Capecchi, M. R. (1987) *Cell* 51(3):503-12.

## MSDS INFORMATION

Material Safety Data Sheets (MSDSs) are provided online at *http://www.chem.agilent.com/en-US/search/library/Pages/MSDSSearch.aspx*. MSDS documents are not included with product shipments.