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## PRODUCT: Linear Puromycin Marker

**CATALOG No.** 631626

**AMOUNT:** 2 µg

**LOT NUMBER**

Specified on product label.

**STORAGE CONDITIONS**

Store at -20°C.

**SHELF LIFE**

1 year from date of receipt under proper storage conditions.

**SHIPPING CONDITIONS**

Blue ice (4°C) or dry ice (-70°C)

**DESCRIPTION**

Linear Puromycin Marker is a short ds DNA fragment consisting of the puromycin resistance gene regulated by the SV40 promoter and ending with the SV40 polyadenylation signal. The 1.8-kb marker is compatible with any expression vector (including Tet System vectors) for generating stable transfectants using CalPhos™ transfection reagent or a liposome-mediated transfection protocol.

**COTRANSFECTION RATIO**

The optimal ratio of marker DNA to expression vector DNA is 1:10–1:20 using CalPhos transfection reagent or a liposome-mediated transfection method.

**PACKAGE CONTENTS**

- 40 µl Linear Puromycin Marker (50 ng/µl)

**FOR RESEARCH USE ONLY**

**QUALITY CONTROL**

- Digestion with *Hind* III/*Xba* I restriction enzymes produced fragments of 0.75, 0.6 & 0.45 kb.
- As a functional test, HEK 293 cells were transfected with 200 ng Linear Puromycin Marker using a liposome-mediated transfection method. After 5 hr at 37°C, the transfection solution was removed and cells were given fresh media. 48 hr later, cells were plated in two 10-cm plates. 48 hr after plating, media containing puromycin was added to the plates. After 2–3 weeks, a total of >20 clones was identified.



**Clontech**

United States/Canada  
800.662.2566

Asia Pacific  
+1.650.919.7300

Europe  
+33.(0)1.3904.6880

Japan  
+81.(0)77.543.6116

Clontech Laboratories, Inc.  
A Takara Bio Company  
1290 Terra Bella Ave.  
Mountain View, CA 94043  
Technical Support (US)  
E-mail: [tech@clontech.com](mailto:tech@clontech.com)  
[www.clontech.com](http://www.clontech.com)

APPROVED BY: \_\_\_\_\_

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