



11175 Flintkote Ave., Suite E, San Diego, CA 92121
 Tel: (858) 642-0978 Fax (858) 642-0937 Toll free: 1-888-723-GENE
 e-mail: info@imgenex.com; web site: www.imgenex.com

pCL-Eco Retrovirus Packaging Vector

Catalog No.: 10045P

Contents: 10 µg in 20 µl 1x TE (10 mM Tris, pH 7.5, 1 mM EDTA)

BACKGROUND:

The pCL-ECO packaging vector is a part of the RetroMax expression system (Cat#10040K and 10041K) and has been designed to maximize recombinant-retrovirus titers in a simple, efficient, and flexible experimental system. By introducing a retroviral vector into a cell expressing retroviral proteins, retroviral particles (virions) are shed into the culture medium at the rate of about 1 infectious particle/cell/day. Retrovirus tropism is determined at 3 levels. The first is simply a function of **viral envelope protein, gp70**. The envelope determines which cells the virus will enter. gp70 comes in three different flavors for gene therapy. Retroviruses obtained by cotransfection with pCL-Eco vector will infect mouse and rat cells, but not human cells.

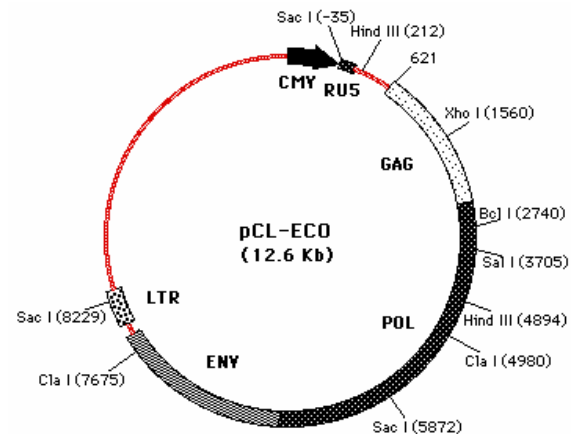
AMPLIFICATION: The plasmid DNA contains an ampicillin resistant gene. For large scale production, this plasmid may be amplified on LB plates containing 50 µg/ml ampicillin. The liquid cultures may be grown at 100 µg ampicillin/ml.

STORAGE:

For long-term storage, store at -20°C. For amplification, transform a suitable *E. coli* host such as HB101 or DH-5α and plate on LB plates containing 50-µg/ml ampicillin. For plasmid DNA preparation start culture from a single colony in LB medium containing 100 µg/ml ampicillin.

REFERENCES:

1. Naviaux, RK, Costanzi, E, Haas, M and Verma, I. The pCL vector system: Rapid production of helper-free, high titer, recombinant retroviruses. *J. Virol* 70: 5701-5705 (1996).



Ectotropic (usually) (MoMuLV)	Mouse and rat cells only (not human)
Amphotropic (from 4070A MuLV)	Most mammalian cells (but not hamster)
10A1 (MuLV)	Most mammalian cells (including hamster)

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