



NIH AIDS Reagent Program

20301 Century Boulevard
Building 6, Suite 200
Germantown, MD 20874
USA

Phone: 240 686 4740
Fax: 301 515 4015
aidsreagent.org

DATA SHEET

Reagent: pSV-Ψ-MLV-env-

Catalog Number: 3422

Lot Number: 050814

Release Category: C

Provided: 5 µg of dried purified DNA stabilized in DNastable *PLUS*

Cloning Vector: pSV7d
Ampicillin resistant

Cloning Site: EcoRI cloning site
The size of the insert is 11,606 bp

Description: Ψ-Moloney Murine Leukemia virus DNA (from Richard Mann) was cloned into the SV40 expression vector pSV7d at the EcoRI site. Restriction sites in the MLV sequence can be found in the Appendix to Volume 2 of the Cold Spring Harbor Tumor Virus Book. The mouse flanking sequences present on either side of the provirus have not been sequenced.

Special Characteristics: This construct is 13,966 bp including the insert.
This plasmid is used to produce MLV retroviral vectors using the method of Landau and Littman. In the original method, COS cells were transfected with this plasmid and an amphotropic MLV env vector. Higher virus titers can be obtained by transfecting 293 cells instead of COS cells, and with the VSV-G expression vector instead of A-MLV.

[Contributor Provided Plasmid Map](#)

[Plasmid map and sequence file lot 050814](#)

Plasmids can be propagated in STBL2 cells and grown at 37°C. Larger plasmids may benefit from growth at 30°C. This construct may also be grown in other competent cells.

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

This reagent is currently being provided as dried purified DNA stabilized in DNastable PLUS. Please see the notice for additional information and the protocol for reconstitution of dried DNA reagents. [Dried DNA Notice](#)

Recommended Storage: Keep the reagent at room temperature in a dry storage cabinet or in a moisture barrier bag.

Contributor: Dr. Nathaniel Landau, Aaron Diamond AIDS Research Center, the Rockefeller University.

References: Landau NR, Littman DR. packaging system for rapid production of murine leukemia virus vectors with variable tropism. *J Virol* **66**:5110-5113, 1992.

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: pSV- Ψ -MLV-env- from Dr. Nathaniel Landau (cat# 3422)." Also include the reference cited above in any publications. Patent pending.

Requests from commercial organizations must be directed to the New York University Office of Industrial Liaison at the following email address:
sadhana.chitale@nyumc.org.

Last Updated April 09, 2018

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