



NIH AIDS Reagent Program

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DATA SHEET

Reagent: Human CD8 Expression Vector (T8-pMV7)

Catalog Number: 159

Lot Number: 180255

Release Category: C

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

Cloning Site: EcoRI cloning site
The size of the insert is approximately 1500 bp.

Cloning Vector: pMV-7
Ampicillin resistant

Description: An expression vector which produces human CD8 protein.

Special Characteristics: This construct is approximately 9646 bp including the insert.
This plasmid expresses CD8 that was isolated from cDNA libraries constructed in λGT10. The cDNA from λGT10 was originally cloned from the human T-cell leukemia Fro 2.2 cell line. This plasmid also contains two LTR repeats of Moloney leukemia virus (MLV) and a neomycin phosphotransferase gene fused to the HSV thymidine kinase promoter.
Transfection of this plasmid to a retrovirus helper cell line results in the production of replication-defective recombinant retrovirus.
[Contributor provided plasmid map](#)
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.
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](#)

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.

or aried 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. Richard Axel

References:

Kirschmeier, P. T., Housey, G. M., Johnson, M. D., Perkins, A. S. and Weinstein, I. B. (1988). Construction and characterization of a retroviral vector demonstrating efficient expression of cloned cDNA sequences. *DNA*, 7(3), 219-25. doi:10.1089/dna.1988.7.219 [PUBMED](#)

Maddon, P. J., Dalglish, A. G., McDougal, J. S., Clapham, P. R., Weiss, R. A. and Axel, R. (1986). The T4 gene encodes the AIDS virus receptor and is expressed in the immune system and the brain. *Cell*, 47(3), 333-48. [PUBMED](#)

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Human CD8 Expression Vector (T8-pMV7) from Dr. Richard Axel (cat# 159)." Also include the references cited above in any publications.

Scientists at for-profit institutions or who intend commercial use of this reagent must contact Columbia Technology Ventures at the following email address: techventures@columbia.edu, before the reagent can be released.

Last Updated:

November 13, 2019

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