



NIH AIDS Reagent Program

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DATA SHEET

Reagent: HIV-1 SF162 gp160 Expression Vector

Catalog Number: 10463

Lot Number: 041817

Release Category: E

Provided: 5 µl containing approximately 4 µg plasmid DNA

Cloning Site: 5'- EcoRI- BgIII -3'. The size of the insert is 3.3 kb.

Cloning Vector: The cloning vector is pCAGGS and the size of the cloning vector including the insert is 11.3 kb.

Description: The SF162 gp160 insert was cut out of a SF162 3' half-genome clone as a 3.3 kb EcoRI-BgIII fragment (nt 1-3287) and cloned into the pCAGGS vector at the same sites. The plasmid has a CMV enhancer and a chicken b-actin promoter as well as an SV40 origin. It is ampicillin resistant.

[Sequence](#)

Special Characteristics: Co-transfection of 293T cells with NL4-3 env plasmid yields an HIV-1 pseudotype virus that is R5-tropic and susceptible to neutralization by multiple antibodies.

GenBank Accession #: [EU123924](#)

Recommended Storage: 4°C

Contributor: Drs. Leonidas Stamatatos and Cecilia Cheng-Mayer.

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.

References:

Stamatatos L., Lim M. and Cheng-Mayer C. Generation and structural analysis of soluble oligomeric envelope proteins derived from neutralization-resistant and neutralization-susceptible primary HIV-1 isolates. *AIDS Res. And Hum. Retroviruses* **16**: 981-994, 2000.

Stamatatos L., Wiskerchen M. and Cheng-Mayer C. Effect of major deletions in the V1 and V2 loops of a macrophage-tropic HIV-1 isolate on viral envelope structure, cell-entry and replication. *AIDS Res. And Hum. Retroviruses* **14**: 1129-1139, 1998.

Cheng-Mayer C., Liu R., Landau N. R. and Stamatatos L. Macrophage tropism of human immunodeficiency virus type 1 and utilization of the CC- CKR5 coreceptor. *J. Virol.* **71**:1657-1661, 1997.

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: pCAGGS SF162 gp160 from Drs. L. Stamatatos and C. Cheng-Mayer." Also include the reference cited above in any publications.

Recipient must not use or incorporate the reagent for commercial purposes.

Last Updated:

February 10, 2017

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