



NIH AIDS Reagent Program

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DATA SHEET

Reagent: HIV-1 SF162 gp160 Expression Vector

Catalog Number: 10463

Lot Number: 110170

Release Category: E

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

Cloning Site: EcoRI/BgIII cloning site
The size of the insert is 3.3 kb.

Cloning Vector: pCAGGS
Ampicillin resistant

Description: An expression vector which produces HIV-1 subtype B SF162 gp160.

Special Characteristics: This construct is 8075 bp including the insert.
This plasmid expresses gp160 derived from a HIV-1 SF162 3' half-genome clone. The 3.3 kb EcoRI-BgIII fragment (nt 1-3287) was cloned into the pCAGGS vector. The original BgIII cloning site was lost in this process.
Co-transfection with an *env*-defective viral molecular clone will yield pseudovirus that utilizes CCR5 as a co-receptor.
GenBank Accession Number: [EU123924](#)
[Contributor provided sequence info](#)
[Plasmid map and sequence file lot 110170](#)
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.

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

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

References: Cheng-Mayer, C., Liu, R., Landau, N. R., & Stamatatos, L. (1997). Macrophage tropism of human immunodeficiency virus type 1 and utilization of the CC-CKR5 coreceptor. *J Virol*, 71(2), 1657-1661. [PUBMED](#)

Stamatatos, L., Lim, M., & Cheng-Mayer, C. (2000). Generation and structural analysis of soluble oligomeric gp140 envelope proteins derived from neutralization-resistant and neutralization-susceptible primary HIV type 1 isolates. *AIDS Res Hum Retroviruses*, 16(10), 981-994. doi: 10.1089/08892220050058407 [PUBMED](#)

Stamatatos, L., Wiskerchen, M., & Cheng-Mayer, C. (1998). Effect of major deletions in the V1 and V2 loops of a macrophage-tropic HIV type 1 isolate on viral envelope structure, cell entry, and replication. *AIDS Res Hum Retroviruses*, 14(13), 1129-1139. doi: 10.1089/aid.1998.14.1129 [PUBMED](#)

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: April 20, 2018

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