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DATA SHEET

Reagent:	HIV-1 SF162 gp160 Expression Vector
Catalog Number:	10463
Lot Number:	160156
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 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 information Plasmid map and sequence file lot 160156 Please note that this sequence file reflects a 21 bp difference in the chicken µ-actin promoter region as compared to the previous lot (110173) and the donor provided sequence. The 3' end of the promoter has high GC content and the total number of sequencing reads in this region is particularly low.

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

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.

Alternate names include: pCAGGS SF162 gp160

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: HIV-1 SF162 gp160 Expression Vector (pCAGGS SF162) 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