



## 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:** HIV-1 gp160 Expression Vector (Q259<sub>ENVd</sub>2.17)

**Catalog Number:** 10459

**Lot Number:** 041575

**Release Category:** C

**Provided:** 4 µg of dried purified DNA stabilized in DNastable *PLUS*

**Cloning Vector:** pCI-neo  
Ampicillin and neomycin resistant

**Cloning Site:** MluI/NotI cloning site  
The size of the insert is approximately 3000 bp.

**GenBank:** [AF407152](#)

**Host Strain:** 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.

**Description:** An expression vector which produces HIV-1 R5 subtype A gp160 derived from a Kenyan HIV-1 positive patient.

**Special Characteristics:** This construct is 8485 bp including the insert.  
The source of this envelope clone was directly derived from PBMCs of an individual one week after seroconversion. It is a R5 subtype A virus from Kenya. This clone is useful for screening vaccine sera for neutralizing antibodies that can block transmitted subtype A viruses. It can also be used for the study of the biological properties of transmitted/early virus variants. The envelope region of HIV-1 was amplified by PCR from PBMC DNA. The coding region present is HIV-1 envelope gp160.  
[Contributor provided plasmid map](#)

---

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.

[Plasmid map and sequence file](#)

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. Julie Overbaugh

**References:** Long, E. M., Rainwater, S. M., Lavreys, L., Mandaliya, K., & Overbaugh, J. (2002). HIV type 1 variants transmitted to women in Kenya require the CCR5 coreceptor for entry, regardless of the genetic complexity of the infecting virus. *AIDS Res Hum Retroviruses*, 18(8), 567-576. doi:10.1089/088922202753747914 [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 gp160 Expression Vector (Q259ENVd2.17) from Dr. Julie Overbaugh." Also include the reference cited above in any publications.

**Scientists at for-profit institutes or who intend commercial use of this reagent must contact Jennifer Haberman at Technology Transfer Office, Fred Hutchinson Cancer Research Center at email address [haberman@fhcrc.org](mailto:haberman@fhcrc.org) and specify in the email the name of the reagent and a description of the intended use of the reagent.**

**Last Updated:** June 21, 2018

---

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.