



## 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: N6 mAb Light Chain Expression Vector

Catalog Number: 12966

Lot Number: 160311

Release Category: C

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

Cloning Site: AgeI/SalI cloning site  
The size of the insert is 500 bp.

Cloning Vector: CMVR  
Kanamycin resistant

Description: A N6 mAb light chain expression vector which can be used with the corresponding N6 mAb heavy chain expression vector (cat# 12967) to produce the monoclonal antibody, N6.

Special Characteristics: This construct is 5100 bp including the insert.  
This is a light chain expression vector for the broadly neutralizing antibody, N6. This antibody was derived from peripheral-blood B cells from a HIV-1 infected patient due to potent and broad serum neutralization activity. The expression vector codes for a signal peptide sequence, and variable and constant regions of IgG1 light chain expressed under the control of the HCMV (human cytomegalovirus immediate-early) promoter.  
This plasmid can be used in conjunction with the complementary N6 mAb heavy chain expression vector (cat# 12967) to produce the monoclonal antibody, N6.  
GenBank Accession Number: [KX595112](#)  
[Contributor sequence information](#)  
[Plasmid map and sequence file lot 160311](#)

---

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.

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](#)

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

**Contributor:** Drs. Jinghe Huang and Mark Connors

**References:** Huang, J., Kang, B. H., Ishida, E., Zhou, T., Griesman, T., Sheng, Z., . . . Connors, M. (2016). Identification of a CD4-Binding-Site Antibody to HIV that Evolved Near-Pan Neutralization Breadth. *Immunity*, 45(5), 1108-1121. doi:10.1016/j.immuni.2016.10.027 [PUBMED](#)

**NOTE:** Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: N6 mAb Heavy Chain Expression Vector from Drs. Jinghe Huang and Mark Connors (cat# 12966)." Also include the references cited above in any publications.

Scientists at for-profit institutions or who intend commercial use of this reagent must contact: The Office of Technology Development, NIAID, 6610 Rockledge Drive, Suite 2800, MSC 6606, Bethesda, MD, 20892-6606, Tel:301-496-2644, Fax: 301-402-7123, before the reagent can be released.

**Last Updated:** July 16, 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.