



## NIH AIDS Reagent Program

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### DATA SHEET

**Reagent:** 7H6 mAb Light chain expression vector (CMVR)

**Catalog Number:** 12293

**Lot Number:** 130146

**Release Category:** C

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

**Cloning Vector:** CMV/R  
Kanamycin resistant

**Description:** The light chain expression vector for the broadly neutralizing antibody, 7H6. The expression vector codes for a signal peptide sequence, variable and constant regions of IgG light (lambda) chain expressed under control of the HCMV (human cytomegalovirus immediate-early) promoter.

**Special Characteristics:** This construct is 5112 bp including the insert.

7H6 is a broadly neutralizing HIV-1 antibody against all major subtypes. This plasmid expresses the IgG (lambda) light chain of the HIV-1 gp41 mAb 7H6. The 7H6 antibody has the same heavy chain as 10E8 (Cat #12290). The 7H6 mAb (Cat# 12294) can be expressed in 293T cells and purified using a protein-A column (please see references).

7H6 tends to precipitate at 4°C or after -20°C storage, please warm it up at 37°C for 1 hour before use.

GenBank Accession Number: [JX645770](#)

[Contributor provided sequence and vector map](#)

[Plasmid map and sequence file lot 130146](#)

Plasmids can be propagated in STBL2 cells and grown at 37°C. Larger plasmids may benefit from growth at 30°C.

This reagent is currently being provided as dried purified DNA stabilized in DNASTable

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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.

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:** Jinghe Huang, Leo Laub, and Mark Connors

**References:** Jinghe Huang, Gilad Ofek, Leo Laub, Mark K. Louder, Nicole A. Doria-Rose, Nancy S. Longo, Hiromi Imamichi, Robert T. Bailer, Bimal Chakrabarti, Shailendra K. Sharma S. Munir Alam, Tao Wang, Yongping Yang, Baoshan Zhang, Stephen A. Migueles, Richard Wyatt, Barton F. Haynes, Peter D. Kwong, John R. Mascola and Mark Connors. Broad and potent neutralization of HIV-1 by a gp41-specific human antibody. Nature (2012) doi:10.1038/nature11544

**NOTE:** Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: 7H6 mAb Light chain expression vector (CMVR), from Dr. Mark Connors (cat# 12293)." Also include the reference cited above in any publications.

**Scientists at for-profit institutions or who intend commercial use of this reagent must contact the NIH Office of Technology Transfer, Email: [NIAIDAIDSReagent@niaid.nih.gov](mailto:NIAIDAIDSReagent@niaid.nih.gov), before the reagent can be released. Please specify the name and a description of the intended use of the reagent.**

**Last Updated:** July 30, 2018

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