



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	10E8 mAb Light chain expression vector (CMVR)
<b>Catalog Number:</b>	12291
<b>Lot Number:</b>	130145
<b>Release Category:</b>	C
<b>Provided:</b>	5 µg of purified DNA stabilized in DNASTable <i>PLUS</i> and dried
<b>Cloning Vector:</b>	The size of the insert is about 400 bp. The vector is the same as VRC01 light chain (Cat# 12036). The sequence and map are provided in the link below. The vector's selection drug is Kanamycin at 50 µg/ml.
<b>Description:</b>	The light chain expression vector for the broadly neutralizing antibody, 10E8. 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.
<b>Special Characteristics:</b>	<p>10E8 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 10E8. With 10E8 heavy chain plasmid (Cat# 12290), the 10E8 mAb (Cat# 12294) can be expressed in 293T cells and purified using a protein-A column (please see references). 10E8 tends to precipitate at 4°C or after -20°C storage, please warm it up at 37°C for 1 hour before use.</p> <p><a href="#">GenBank #JX645770.</a></p> <p><a href="#">Contributor provided plasmid map and sequence information</a></p> <p><a href="#">Plasmid map and sequence file lot 130145</a></p> <p>This reagent is currently being provided as purified DNA stabilized in DNASTable <i>PLUS</i> and dried. Please see the notice for additional information and the protocol for reconstitution of dried DNA reagents. <a href="#">Dried DNA Notice</a></p>
<b>Recommended Storage:</b>	Keep the reagent at room temperature in a dry storage cabinet or in a moisture barrier bag.

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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.

**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: mAb 10E8 heavy chain, from Dr. Mark Connors." 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 03, 2017

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