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DATA SHEET

Reagent:	7H6 mAb Light chain expression vector (CMVR)
Catalog Number:	12293
Lot Number:	196364S-1/GD4791301
Release Category:	C
Provided:	5 µg of plasmid DNA.
Cloning Site:	Restriction enzymes AgeI and XhoI were used to place the insert into the vector. Size of insert is about 400 bp. Please see the plasmid map.
Cloning Vector:	A PBR322-based IG-lambda expression vectors contain a murine immunoglobulin signal peptide sequence and variable-gene cloning sites upstream of the human immunoglobulin light (lambda) chain constant regions followed by an SV40 polyadenylation sequence. Transcription is under the HCMV (human cytomegalovirus immediate-early) promoter and clones are selected based on ampicillin resistance. The size of the vector plus the insert is 5.5 Kb.
Description:	The light chain expression vector for the broadly neutralizing antibody, 7H6. The expression vector contains 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:	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 #JX645770. Sequence and vector map

Recommended Storage:	-20°C
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 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.
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