



NIH AIDS Reagent Program

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DATA SHEET

Reagent: 35022 mAb Heavy chain expression vector (CMVR)

Catalog Number: 12584

Lot Number: 140369

Release Category: C

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

Cloning Site: The size of the insert is 1383 bp.

Cloning Vector: The vector is the same as VRC01 mAb Heavy chain expression vector (CMVR) (Cat# 12035). The plasmid sequence is provided in the link below. The vector's selection drug is Kanamycin at 50 µg/ml.

Description: The heavy chain expression vector for the broadly neutralizing antibody, 35022. The expression vector codes for a signal peptide sequence, variable and constant regions of IgG1 heavy chain expressed under control of the HCMV (human cytomegalovirus immediate-early) promoter.

Special Characteristics: This construct is 5854 bp including the insert.

35022 is a broadly neutralizing HIV-1 antibody against all major subtypes that binds to gp120 and gp41. This plasmid expresses the IgG1 heavy chain of mAb 35022 (Cat# 12586). With the 35022 mAb Light chain expression vector (Cat# 12585), 35022 can be expressed in 293T cells and purified using a protein-A column (please see references). 35022 tends to precipitate at 4°C or after -20°C storage, please warm it up at 37°C for 1 hour before use.

[Contributor provided sequence information](#)

[Plasmid map and sequence file lot 140369](#)

GenBank Accession Number: [KM001872](#) (variable region)

This reagent is currently being provided as purified DNA stabilized in DNastable *PLUS* and dried. Please see the notice for additional information and the protocol for reconstitution

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.

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 and Mark Connors

References: Jinghe Huang, Byong H. Kang, Marie Pancera, Jeong Hyun Lee, Tommy Tong, Yu Feng, Hiromi Imamichi, Ivelin S. Georgiev, Gwo-Yu Chuang, Aliaksandr Druz, Nicole A. Doria-Rose, Leo Laub, Kwinten Slieden, Marit J. van Gils, Alba Torrents de la Peña, Ronald Derking, Per-Johan Klasse, Stephen A. Migueles, Robert T. Bailer, Munir Alam, Pavel Pugach, Barton F. Haynes, Richard T. Wyatt, Rogier W. Sanders, James M. Binley, Andrew B. Ward, John R. Mascola, Peter D. Kwong & Mark Connors. Broad and potent HIV-1 neutralization by a human antibody that binds the gp41-gp120 interface. Nature (2014) doi: 10.1038/nature13601

For antibody purification, follow the protocol for 10E8.

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: Cat# 12584 mAb 35022 heavy chain expression vector (CMVR), from Drs. Jinghe Huang and 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 at NIAID, Email: 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: December 04, 2017

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