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DATA SHEET

Reagent:	35O22 mAb Light chain expression vector (CMVR)
Catalog Number:	12585
Lot Number:	140370
Release Category:	C
Provided:	5 µg of purified DNA stabilized in DNAstable *PLUS* and dried
Cloning Site:	The size of the insert is 708 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 light chain expression vector for the broadly neutralizing antibody, 35O22. The expression vector codes for a signal peptide sequence, variable and constant regions of IgG1 light chain expressed under control of the HCMV (human cytomegalovirus immediate-early) promoter.
Special Characteristics:	This construct is 5115 bp including the insert. 35O22 is a broadly neutralizing HIV-1 antibody against all major subtypes that binds to gp120 and gp41. This plasmid expresses the IgG1 light chain of mAb 35O22 (Cat# 12586). With 35O22 heavy chain plasmid (Cat# 12584) 35O22 can be expressed in 293T cells and purified using a protein-A column (please see references). 35O22 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 140340 KM001880 (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

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 Sliepen, 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# 12585 mAb 35O22 light chain, 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