



## NIH AIDS Reagent Program

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### DATA SHEET

**Reagent:** Human APOBEC3G Myc His Expression Vector (pcDNA-APO3G)

**Catalog Number:** 9904

**Lot Number:** 190110

**Release Category:** C

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

**Cloning Site:** EcoRI/HindIII cloning site  
The size of the insert is approximately 1162 bp.

**Cloning Vector:** pcDNA3.1(-)/Myc-His A  
Ampicillin/neomycin resistant

**Description:** An expression vector which produces human APOBEC3G protein with Myc and His tags.

**Special Characteristics:** This construct is approximately 6644 bp including the insert.  
This plasmid expresses biologically active human APOBEC3G under the control of the CMV promoter. Expresses a 409 amino acid protein (384 residues APOBEC3G plus 25 residues Myc and His epitope tags).  
Note: this clone contains two nucleotide changes (G1448→A) & (G2071→T) in APOBEC3G resulting in two amino acid changes (S162N) & (D370Y) relative to the GenBank entries for APOBEC3G ([NM\\_021822](#)) and MDS019 ([AF182420](#)).  
Plasmids can be propagated in STBL2 cells and grown at 37°C. Larger plasmids may benefit from growth at 30°C. This construct may also be grown in other competent cells.  
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](#)

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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.

**Recommended Storage:** Keep the reagent at room temperature in a dry storage cabinet or in a moisture barrier bag.

**Contributor:** Drs. Klaus Strebel and Sandra Kao

**References:** Kao, S., Khan, M. A., Miyagi, E., Plishka, R., Buckler-White, A. and Strebel, K. (2003). The human immunodeficiency virus type 1 Vif protein reduces intracellular expression and inhibits packaging of APOBEC3G (CEM15), a cellular inhibitor of virus infectivity. *J Virol*, 77(21), 11398-407. [PUBMED](#)

**NOTE:** Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Human APOBEC3G Myc His Expression Vector (pcDNA-APO3G) from Drs. Klaus Strebel and Sandra Kao (cat# 9904)." 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:** March 27, 2020

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