



NIH AIDS Reagent Program

20301 Century Boulevard
Building 6, Suite 200
Germantown, MD 20874
USA

Phone: 240 686 4740
Fax: 301 515 4015
aidsreagent.org

DATA SHEET

Reagent:	Human APOBEC3G Myc His Expression Vector (pcDNA-APO3G)
Catalog Number:	9904
Lot Number:	040593
Release Category:	C
Provided:	1ml glycerol stock of transformed ampicillin resistant DH5 β competent cells.
Cloning Site:	Cloned into the <i>EcoRI/HindIII</i> sites of pcDNA3.1(-)/MycHis A (Invitrogen Corp., Carlsbad CA). The size of the insert is 1162 bp.
Cloning Vector:	The cloning vector is pcDNA3.1(-)/MycHis A; the size of the cloning vector including the insert is 6644 bp.
Description:	<p>This plasmid expresses human APOBEC3G under the control of the CMV promoter. Expresses a 409 amino acid protein (384 residues APOBEC3G plus 25 residues MycHis epitope tag).</p> <p>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).</p>
Special Characteristics:	Expresses biologically active human APOBEC3G.
Recommended Storage:	-70°C
Contributor:	Drs. Klaus Strebel and Sandra Kao

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.

References:

Kao S, Khan MA, Miyagi E, Plishka R, Buckler-White A, Strebel K. 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**:11398-11407, 2003.

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, before the reagent can be released. Please specify the name and a description of the intended use of the reagent.

Last Updated:

February 06, 2019

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.