



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: HIV-1 HXB3 Rev Expression Vector (pHGB1-Rev HXB3)

Catalog Number: 12708

Lot Number: 150200

Release Category: C

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

Cloning Site: NcoI/XhoI cloning site
The size of the insert is 353 bp.

Cloning Vector: Unknown
Ampicillin resistant

Description: This expression vector produces HXB3 Rev.

Special Characteristics: This construct is 5954 bp including the insert.
Rev from HIV-1 HXB3 fused to an N-terminal GB1 tag for solubility and a hexahistidine tag for purification using Ni-NTA chromatography. Rev can be cleaved from these tags by tobacco etch virus, resulting in a Rev with an extra Gly-Ala dipeptide at the N-terminus.
It is suggested to use E. coli BL21(DE3) for protein production.
[Plasmid map and sequence file lot 150200](#)
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](#)

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

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.

Contributor: Dr. Alan Frankel

References: Daugherty MD, D'Orso I, Frankel AD. A solution to limited genomic capacity:using adaptable binding surfaces to assemble the functional HIV Rev oligomer on RNA. Mol Cell. 2008 Sep 26;31(6):824-34. doi: 10.1016/j.molcel.2008.07.016. PMID: 18922466; PMCID: PMC2651398.

Daugherty MD, Booth DS, Jayaraman B, Cheng Y, Frankel AD. HIV Rev response element (RRE) directs assembly of the Rev homooligomer into discrete asymmetric complexes. Proc Natl Acad Sci U S A. 2010 Jul 13;107(28):12481-6. doi: 10.1073/pnas.1007022107. Epub 2010 Jun 28. PMID: 20616058; PMCID: PMC2906596.

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1 HXB3 Rev Expression Vector (pHGB1-Rev HXB3) from Dr Alan Frankel." 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 UCSF Office of Innovation, Technology & Alliances (ITA) at the following email address: innovation@ucsf.edu.

Last Updated: September 14, 2017

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