



NIH AIDS Reagent Program

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DATA SHEET

Reagent: pSG3.1

Catalog Number: 2003

Lot Number: 070516

Release Category: C

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

Cloning Vector: pTZ19U
Ampicillin resistant

Cloning Site: BamHI/EcoRI reverse orientation (3'-5') to polylinker sequence.
The size of the insert is 11,920 bp.

GenBank: L02317

Host Strain: 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.

Description: PBMC from patient BC were briefly cocultured with normal PBMC, then passaged into HUT-78 cells. A λ phage library was constructed from a genomic library obtained from the infected culture. Replication-competent clone λSG3 was subcloned into the EcoRI site of pTZ19U, and a 4.4 kb BamHI genomic flank was removed to produce pSG3.1. This construct contains all HIV-1 genes except for *vpu* due to a 23 bp deletion.

Special Characteristics: This construct is 14,761 bp including the insert.
Produces infectious virus upon transfection into Cos-1 cells. SG3 virus readily infects most T-cell lines, induces large syncytia, and is highly cytopathic. The virus replicates readily in chimpanzee lymphocytes, and can infect and replicate in chimpanzees and SCID-hu mice *in vivo*.
[Plasmid map and sequence file lot 070516](#)

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.

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.

Contributor: Drs. Sajal Ghosh, Beatrice Hahn, and George Shaw

References: Ghosh SK, Fultz PN, Keddie E, Saag MS, Sharp PM, Hahn BH, Shaw GM. A molecular clone of HIV-1 tropic and cytopathic for human and chimpanzee lymphocytes. *Virology* **194**:858-864, 1993.

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: pSG3.1 from Drs. Sajal Ghosh, Beatrice Hahn, and George Shaw." Also include the reference cited above in any publications.

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