



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	GHOST (3) BoB+ Cells
<b>Catalog Number:</b>	3686
<b>Lot Number:</b>	170241
<b>Release Category:</b>	C
<b>Provided:</b>	1 mL of cells Post thaw cell count = $6.7 \times 10^7$ cells/mL Post thaw cell viability = 97%
<b>Cell Type:</b>	HOS (human osteosarcoma) cells
<b>Propagation Medium:</b>	DMEM, 90%; fetal bovine serum, 10%; 1X NEAA, 500 $\mu$ g/mL G418; 100 $\mu$ g/mL hygromycin; 1 $\mu$ g/mL puromycin
<b>Freeze Medium:</b>	FBS, 90%; DMSO, 10%
<b>Morphology:</b>	Adherent Cell Line, Epithelial-like Cell Line
<b>Sterility:</b>	Negative for mycoplasma, bacteria, and fungi
<b>Description:</b>	Human osteosarcoma cells expressing CD4 and BoB/GPR15. This cell line has a tat-dependent HIV-2 LTR-GFP construct producing GFP in response to HIV infection.
<b>Special Characteristics:</b>	GHOST (3) parental cells are derived from HOS (human osteosarcoma) cells that were stably transduced with a MV7neo-T4 retroviral vector as well as stably cotransfected with a HIV-2 LTR-GFP construct and the CMV IE driving hygro-resistance construct.  GHOST (3) BoB+ cells were generated by transduction of the parental cells GHOST (3) (Cat# 3679) with the retroviral MLV BABE-puro vector containing the human BOB/GPR15 gene. These cells are HIV indicator cells, they can be used to titer virus, determine the phenotypic properties and in drug/neutralization studies. For a full listing of the available

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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.

GHOST (3) HIV indicator cells, please see Table 1 below.

GHOST (3) Parent Cell Line: Progenitor cell line used to develop GHOST (3) indicator panel.

GHOST Cell Transformants: Indicator cells for HIV-1, HIV-2, or SIV infection with uncloned, primary isolates, molecular clones, or pseudotyped virus. The puromycin-resistant cells are pools rather than clones for human coreceptor expression.

Table 1: GHOST (3) HIV Indicator Cells

Protocol: Care and use of GHOST (3) HIV indicator cells

Alternate name: GHOST (3) BOB/GPR15

**Recommended Storage:**

Keep the reagent in liquid nitrogen.

**Contributor:**

Dr. Vineet N. KewalRamani and Dr. Dan R. Littman

**References:**

A. Morner, A. Bjorndal, J. Albert, V. N. Kewalramani, D. R. Littman, R. Inoue, R. Thorstensson, E. M. Fenyo and E. Bjorling. (1999). Primary human immunodeficiency virus type 2 (HIV-2) isolates, like HIV-1 isolates, frequently use CCR5 but show promiscuity in coreceptor usage. J Virol, 73(3), 2343-9. [PUBMED](#)

**NOTE:**

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: GHOST (3) BoB+ Cells from Dr. Vineet N. KewalRamani and Dr. Dan R. Littman (cat# 3686)." 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 New York University Office of Industrial Liaison at the following email address: [abram.goldfinger@nyumc.org](mailto:abram.goldfinger@nyumc.org), before the reagent can be released.**

**Last Updated**

November 19, 2020

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