



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:	GHOST (3) CCR5+ Cells (Hi-5)
Catalog Number:	3944
Lot Number:	042039
Release Category:	C
Cell Type:	Derived from HOS cells. Stably transduced with MV7neo-T4 retroviral vector, and stably cotransfected with the HIV-2 LTR driving hGFP construct and the CMV IE driving hygro-resistance construct.
Propagation Medium:	High glucose DMEM, 90%; fetal bovine serum, 10%. Supplement with 500 µg/ml G418, 100 µg/ml hygromycin, pen/strep, and 1 µg/ml puromycin [NOTE: GHOST (3) Parental Cell Line is puromycin sensitive, do not supplement with puromycin.]
Freeze Medium:	FBS, 90%; DMSO, 10%.
Sterility:	Negative for mycoplasma, bacteria, and fungi.
Description:	Derived from HOS cells. Stably transduced with MV7neo-T4 retroviral vector, and stably cotransfected with the HIV-2 LTR driving hGFP construct and the CMV IE driving hygro-resistance construct.
Special Characteristics:	<p><u>GHOST (3) Parent Cell Line:</u> Progenitor cell line used to develop GHOST (3) indicator panel. This cell line can also be used to introduce new HIV/SIV coreceptors to create novel indicator lines for infection analyses. Stable transduction of new genes can be achieved using puromycin resistance gene encoding vectors (e.g., pBABE-puro). They are adherent cells.</p> <p><u>GHOST Cell Transformants:</u> 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. The cells can be used to titer virus, evaluate drug sensitivities, or phenotype coreceptor use in conjunction with other GHOST cell lines. Infection is detected via induction of the hGFP gene as little as 24 hrs post-infection. Adherent cells.</p>

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.

[NFNSX timecourse on Ghost \(3\) cells](#)
[Table 1: Ghost \(3\) HIV Indicator Cells](#)
[Protocol: Care and use of Ghost \(3\) HIV indicator cells](#)

Recommended Storage: Liquid nitrogen

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

References: Morner A, Bjorndal A, KewalRamani V, Littman DR, Inoue R, Thorstensson R, Fenyo EM, Bjorling E. 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**:2343-2349, 1999.

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: (specify reagent) from Dr. Vineet N. KewalRamani and Dr. Dan R. Littman." Also include the reference cited above in any publications.

Patent pending. 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

Last Updated June 22, 2017

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.