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:	150236
Release Category:	C
Provided:	1 mL of cells Post thaw cell count = 6.7 x 10^6 cells/mL Post thaw cell viability = 92%
Cell Type:	HOS (human osteosarcoma) cells
Propagation Medium:	High glucose DMEM, 90%; fetal bovine serum, 10%; 500 µg/mL G418; 100 µg/mL hygromycin; pen/strep; 1 µg/mL puromycin
Freeze Medium:	Fetal bovine serum, 90%; DMSO, 10%
Morphology:	Adherent Cell Line, Epithelial-like Cell Line
Sterility:	Negative for mycoplasma, bacteria, and fungi
Description:	Human osteosarcoma cells expressing CD4, and higher level of CCR5 than GHOST (3) CCR5+ Cells. This cell line has a tat-dependent HIV-2 LTR-GFP construct producing GFP in response to HIV infection.
Special Characteristics:	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) CCR5+ Cells (Hi-5) were generated by transduction of the parental cells GHOST (3) (Cat# 3679) with the retroviral MLV BABE-puro vector containing the human

CCR5 gene, than additionally transduced with the non-selectable MX-CCR5 retroviral vector and sorted for high CCR5 expression. 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 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 Names: GHOST (3) Hi-5 Cells

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) GHOST (3) CCR5+ Cells (Hi-5)Cells from Dr. Vineet N. KewalRamani and Dr. Dan R. Littman (cat# 3944)." 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, before the reagent can be released.

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