



NIH AIDS Reagent Program

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DATA SHEET

Reagent: GHOST (3) CX3CR1+ Cells

Catalog Number: 3939

Lot Number: 098113

Release Category: C

Provided: 1 mL of cells
Post thaw cell count = 6×10^6 cells/mL
Post thaw cell viability = 95%

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 V28/CX3CR1. 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) CX3CR1+ Cells were generated by transduction of the parental cells GHOST (3) (Cat# 3679) with the retroviral MLV BABE-puro vector containing the human V28/CX3CR1 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

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.

or 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 name: GHOST (3) V28/CX3R1

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) CX3CR1+ Cells from Dr. Vineet N. KewalRamani and Dr. Dan R. Littman (cat# 3939)." 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.

Last Updated

August 27, 2018

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