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DATA SHEET

Reagent:	GHOST (3) CXCR4+CCR5+ Cells
Catalog Number:	3942
Lot Number:	120237
Release Category:	C
Provided:	4.8 x 10^6 cell/mL, viability 77%.
Cell Type:	HOS (human osteosarcoma) cells
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:	The GHOST (3) CXCR4+CCR5+ cells express CD4, CXCR4, and CCR5. The tat-dependent HIV-2 LTR-GFP construct produces GFP in response to 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. The GHOST (3) parental cell line was then transduced with retroviral vectors containing various HIV coreptors. For a full listing, please see Table 1 below. GHOST (3) Parent Cell Line: Progenitor cell line used to develop GHOST (3) indicator panel. They are adherent cells. 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. Adherent cells.

	NFNSX timecourse on GHOST (3) cells
	Table 1: GHOST (3) HIV Indicator Cells
	Protocol: Care and use of GHOST (3) HIV indicator cells
	Alternate names: GHOST (3) X4/R5
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: Ghost(3)X4/R5 from Drs. Vineet N. KewalRamani and Dan R. Littman." Also include the references 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**
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