



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	J-Lat Full Length Cells (15.4)
<b>Catalog Number:</b>	9850
<b>Lot Number:</b>	140141
<b>Release Category:</b>	C
<b>Provided:</b>	1 ml ( $4.70 \times 10^6$ cells/vial), viability is 90%. RPMI 1640 + penicillin G (100 U/ml) + streptomycin (100 µg/ml)
<b>Cell Type:</b>	Jurkat - T lymphocyte cell line
<b>Propagation Medium:</b>	RPMI 1640, 90%; FBS, 10%; supplemented with penicillin G (100 U/ml), streptomycin (100 µg/ml), L-glutamine (2 mM, 0.3 mg/ml).
<b>Freeze Medium:</b>	FBS, 90%; DMSO, 10%.
<b>Growth Characteristics:</b>	No special requirements, split 1:3 at $1 \times 10^6$ cells/ml. Cells grow in suspension, usually singly but some clumping has been noted.
<b>Morphology:</b>	Small, spherical cells in suspension. Morphology usually does not vary.
<b>Sterility:</b>	Negative for bacteria, mycoplasma, and fungi.
<b>Description:</b>	This is a Jurkat-based cell line containing a full-length integrated HIV-1 genome that expresses GFP upon activation. The genome generates incomplete virions due to a frameshift in env.
<b>Special Characteristics:</b>	Jurkat cells were infected with the packaged retroviral construct HIV-R7/E-/GFP, which is full length HIV-1 genome with a non-functional Env due to a frameshift, and GFP in place of the Nef gene.  Full-length constructs secrete incomplete viral particles (capsids). The cells express low to undetectable levels of GFP under basal conditions. Suited to study HIV latency and

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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.

reactivation.

The clones in this series are: 6.3 (cat# 9846), 8.4 (cat# 9847), 9.2 (cat# 9848), 10.6 (cat# 9849), and 15.4 (cat# 9850).

Please see Table I in the reference publication for differences between these clones in GFP and p24 expression upon stimulation with TNF- $\alpha$

**Recommended Storage:**

Liquid nitrogen

**Contributor:**

Dr. Eric Verdin.

**References:**

Jordan, A., Bisgrove, D., & Verdin, E. (2003). HIV reproducibly establishes a latent infection after acute infection of T cells in vitro. EMBO J, 22(8), 1868-1877. doi:10.1093/emboj/cdg188 [PUBMED](#)

**NOTE:**

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: J-Lat Full Length Cells (clone #) from Dr. Eric Verdin." Also include the reference cited above in any publication.

**These cells and methods of use are covered by US Patents 7,232,685 and 7,544,467.**

**Scientists at for-profit institutions or who intend commercial use of this reagent must contact the J. David Gladstone Institutes, Email: [veronica.viray@gladstone.ucsf.edu](mailto:veronica.viray@gladstone.ucsf.edu), before the reagent can be released. Please specify the name and a description of the intended use of the reagent.**

**Last Updated**

October 04, 2018

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