

**Centre For AIDS Reagents**

**Data Sheet**

<b>REAGENT:</b>	J-Lat Full Length Cells (6.3)
<b>REPOSITORY REFERENCE:</b>	<b>100 941</b>
<b>PROVIDED:</b>	Post thaw cell count = $4.9 \times 10^6$ cells/mL 1mL of cells
<b>LOT NUMBER:</b>	160150
<b>RELEASE RESTRICTION:</b>	NIH category C
<b>STORAGE:</b>	Liquid nitrogen
<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>	<p>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.</p> <p>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 reactivation.</p> <p>The clones in this series are: 6.3 (cat# 100941), 8.4 (cat# 100942), 9.2 (cat# 100943), 10.6 (NIH cat# 9849), and 15.4 (NIH cat# 9850).</p> <p>Please see Table I in the reference publication for differences between these clones in GFP and p24 expression upon stimulation with TNF-<math>\alpha</math></p>
<b>CELL TYPE:</b>	Jurkat - T lymphocyte cell line
<b>FREEZE MEDIUM:</b>	FBS, 90%; DMSO, 10%.
<b>GROWTH CHARACTERISTIC:</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>PROPAGATION MEDIUM:</b>	RPMI 1640, 90%; FBS, 10%; supplemented with penicillin G (100 U/ml), streptomycin (100 $\mu$ g/ml), L-glutamine (2 mM, 0.3 mg/ml).

**MORPHOLOGY:** Small, spherical cells in suspension. Morphology usually does not vary.

**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](#)

**ACKNOWLEDGMENT:** The following reagent was obtained by CFAR – NIBSC via the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: J-Lat Full Length cells (6.3) from Dr. Eric Verdin cat#100941. Also include the references cited above in any publication.  
Please ensure that you send us a copy of any papers Resulting from work using reagents acquired through CFAR, this can be by e-mail or printed copy.