

Centre For AIDS Reagents

Data Sheet

REAGENT:	J-Lat Full Length Cells (8.4)
REPOSITORY REFERENCE:	100 942
LOT NUMBER:	150243
RELEASE RESTRICTION:	NIH Category C
PROVIDED:	1 ml (4.5×10^6 cells/vial), viability is 53%.
STORAGE:	Liquid nitrogen
DESCRIPTION:	This is a Jurkat-based cell line containing a full-length integrated HIV-genome that expresses GFP upon activation. The genome generates incomplete virions due to a frameshift in env.
SPECIAL CHARACTERISTICS:	<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). Please see Table I in the reference publication for differences between these clones in GFP and p24 expression upon stimulation with TNF-α</p>
CELL TYPE:	Jurkat - T lymphocyte cell line
FREEZE MEDIUM:	FBS, 90%; DMSO, 10%.
GROWTH CHARACTERISTIC:	No special requirements, split 1:3 at 1×10^6 cells/ml. Cells grow in suspension, usually singly but some clumping has been noted.
MORPHOLOGY:	RPMI 1640, 90%; FBS, 10%; supplemented with penicillin G (100 U/ml), streptomycin (100 μ g/ml), L-glutamine (2 mM, 0.3 mg/ml).
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 Clone (clone #) from Dr. Eric Verdin. Also include the reference cited above in any publication .

Please also 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.