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DATA SHEET

Reagent:	Jurkat LTR-GFP Cells (JLTRG)
Catalog Number:	11587
Lot Number:	12/10/07
Release Category:	C
Provided:	1 x 10^6 cells/vial (>95% viability upon test thaw).
Cell Type:	Derived from Jurkat Cells.
Propagation Medium:	RPMI 1640, 10% FBS
Freeze Medium:	50% FBS, 40% RPMI 1640, 10% DMSO
Growth Characteristics:	Cells have a doubling time of 24-48 hrs.
Sterility:	Negative for mycoplasma, bacteria and fungi.
Description:	JLTRG/JLTRG-R5 cells are derived from Jurkat cells, which have been stably transfectd with an LTR-GFP construct. In the absence of HIV-1 infection or HIV-1 Tat expression the cells exhibit no GFP expression. JLTRG cells cannot be infected with R5 tropic virus, whereas JLTRG-R5 (Cat #11586) cells express low levels of CCR5 and are thus susceptible to infection with R5 tropic viruses.
Special Characteristics:	JLTRG and JLTRG-R5 (Cat #11586) cells are Jurkat T cell-based reporter cell lines. JLTRG cells express CD4 and CXCR4 whereas JLTRG-R5 cells express both HIV-1 co-receptors, CXCR4 and CCR5 and are derived as a spontaneously occurring sub-clone of JLTRG cells. Both cell lines provide the convenience of using enhanced green fluorescence protein (eGFP) as a direct and quantitative marker of HIV-1 infection or HIV-1 Tat expression.

Recommended Storage:	Liquid Nitrogen
Contributor:	Dr. Olaf Kutsch
References:	Ochsenbauer-Jambor C, Jones J, Heil M, Zammit KP, Kutsch O. T-cell line for HIV drug screening using EGFP as a quantitative marker of HIV-1 replication. Biotechniques. 2006 Jan;40(1):91-100. Kutsch O, Levy DN, Bates PJ, Decker J, Kosloff BR, Shaw GM, Priebe W, Benveniste EN. Bis-anthracycline antibiotics inhibit human immunodeficiency virus type 1 transcription. Antimicrob Agents Chemother. 2004 May;48(5):1652-63.
NOTE:	Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Jurkat LTR-GFP Cells (JLTRG) (Cat #11587), from Dr. Olaf Kutsch." Also include the reference cited above in any publications. **Scientists at for-profit institutions or who intend commercial use of this reagent must contact William S. White, The UAB Research Foundation, 701 20th Street South, AB 770, Birmingham AL 35294, 205/934-9911 before the reagent can be released.**
Last Updated	October 18, 2016