# Package 'HIVcDNAvantWout03'

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<b>Date</b> 2005-01-31
Author Dr. Angelique van't Wout, Department of Microbiology, University of Washington
<b>Title</b> T cell line infections with HIV-1 LAI (BRU)
Description The expression levels of approximately 4600 cellular RNA transcripts were assessed in CD4+ T cell lines at different times after infection with HIV-1BRU using DNA microarrays.  This data corresponds to the first block of a 12 block array image (001030_08_1.GEL) in the first data set (2000095918 A) in the first experiment (CEM LAI vs HI-LAI 24hr).  There are two data sets, which are part of a dye-swap experiment with replicates, representing the Cy3 (green) absorption intensities for channel 1 (hiv1raw) and the Cy5 (red) absorption intensities for channel 2 (hiv2raw).
biocViews ExperimentData, MicroarrayData, TwoChannelData, HIVData
License GPL (>= 2)
Maintainer Chris Fraley <pre><fraley@stat.washington.edu></fraley@stat.washington.edu></pre>
${\bf URL} \ \ {\tt http://expression.microslu.washington.edu/expression/vantwoutjvi2002.html}$
git_url https://git.bioconductor.org/packages/HIVcDNAvantWout03
git_branch RELEASE_3_19
git_last_commit 8751bcf
git_last_commit_date 2024-04-30
Repository Bioconductor 3.19
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hiv1raw

T cell line infections with HIV-1 LAI (BRU)

## **Description**

The expression levels of approximately 4600 cellular RNA transcripts were assessed in CD4+ T cell lines at different times after infection with HIV-1BRU using DNA microarrays. There are two data sets, which are part of a dye-swap experiment with replicates, representing the Cy3 (green) absorption intensities for channel 1 (hiv1raw) and the Cy5 (red) absorption intensities for channel 2 (hiv2raw).

### Usage

data(hiv1raw)

#### **Format**

This data represents a block within a microarray image with 12x32 spots. It is stored as a vector of length 450,000 representing a 450x1000 matrix (ordered by column) of intensities encoded for compact (16-bit TIFF) storage.

## **Details**

The intensities can be obtained from this data by first subtracting them from 65535, then squaring, then multiplying by a scale factor 4.71542407E-05. In other words, a number x in the hiv1 data set corresponds to intensity  $(256 * 256 - 1 - x)^2 * .0000471542407$ .

#### Source

Dr. Angelique van't Wout, Department of Microbiology, University of Washington

The data corresponds to the first block of a 12 block array image ('001030\\_08\\_1.GEL') in the first data set ('2000095918 A') in the first experiment ('CEM LAI vs HI-LAI 24hr') of the following data archive: http://expression.microslu.washington.edu/expression/vantwoutjvi2002.html

## References

van't Wout AB, Lehrman GK, Mikheeva SA, O'Keeffe GC, Katze MG, Bumgarner RE, Geiss GK and Mullins JI, Cellular gene expression upon human immunodeficiency virus type 1 infection of CD4(+)-T-cell lines, *J Virol.* 2003 Jan;77(2):1392-402.a

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hiv2raw

T cell line infections with HIV-1 LAI (BRU)

## Description

The expression levels of approximately 4600 cellular RNA transcripts were assessed in CD4+ T cell lines at different times after infection with HIV-1BRU using DNA microarrays. There are two data sets, which are part of a dye-swap experiment with replicates, representing the Cy3 (green) absorption intensities for channel 1 (hiv1raw) and the Cy5 (red) absorption intensities for channel 2 (hiv2raw).

## Usage

data(hiv2raw)

#### **Format**

This data represents a block within a microarray image with 12x32 spots. It is stored as a vector of length 450,000 representing a 450x1000 matrix (ordered by column) of intensities encoded for compact (16-bit TIFF) storage.

#### **Details**

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