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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 \((256 \times 256 - 1 - x)^2 \times .0000471542407\).
**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**


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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**

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 $(2^8 \times 2^8 - 1 - x)^2 \times .0000471542407$.

**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
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