Package 'lumiBarnes'

May 16, 2024

Type Package
Title Barnes Benchmark Illumina Tissues Titration Data
Version 1.44.0
Date 2010-10-12
Author Pan Du
Maintainer Pan Du <dupan@northwestern.edu></dupan@northwestern.edu>
Description The Barnes benchmark dataset can be used to evaluate the algorithms for Illumina microarrays. It measured a titration series of two human tissues, blood and placenta, and includes six samples with the titration ratio of blood and placenta as 100:0, 95:5, 75:25, 50:50, 25:75 and 0:100. The samples were hybridized on Human-Ref-8 BeadChip (Illumina, Inc) in duplicate. The data is loaded as an LumiBatch Object (see documents in the lumi package).
License LGPL
Depends R (>= 2.0), Biobase (>= 2.5.5), lumi (>= 1.1.0)
biocViews ExperimentData, Tissue, MicroarrayData, ChipOnChipData
git_url https://git.bioconductor.org/packages/lumiBarnes
git_branch RELEASE_3_19
git_last_commit 267696c
git_last_commit_date 2024-04-30
Repository Bioconductor 3.19
Date/Publication 2024-05-16
Contents
lumiBarnes
Index 3

2 lumiBarnes

lumiBarnes

Barnes Benchmark Illumina Tissues Titration Data

Description

The Barnes data set measured a titration series of two human tissues, blood and placenta. It includes six samples with the titration ratio of blood and placenta as 100:0, 95:5, 75:25, 50:50, 25:75 and 0:100. The samples were hybridized on HumanRef-8 BeadChip (Illumina, Inc) in duplicate. See (Barnes, et al., 2005) for details. The data is saved as a LumiBatch object and should be use together with lumi package.

Because the Barnes data utilized the pre-released version of HumanRef-8 version 1 BeadChip, some probes on the chip do not exist in the public released HumanRef-8 version 1 BeadChip. For annotation consistence, these probes was removed in the lumiBarnes package. For the interested users, the raw data can be downloaded from the paper companion website: http://www.bioinformatics.ubc.ca/pavlidis/lab/platformCom

Usage

data(lumiBarnes)

Format

lumiBarnes is a LumiBatch-class object.

Source

Barnes, M., Freudenberg, J., Thompson, S., Aronow, B. and Pavlidis, P. (2005) Ex-perimental comparison and cross-validation of the Affymetrix and Illumina gene expression analysis platforms, Nucleic Acids Res, 33, 5914-5923.

Examples

data(lumiBarnes)
lumiBarnes

Index

 $*\ datasets$

lumiBarnes, 2

 ${\tt lumiBarnes}, {\tt 2}$