Package 'ARRmData'

December 11, 2025

Version 1.46.0

Title Example dataset for normalization of Illumina 450k Methylation data

Description Raw Beta values from 36 samples across 3 groups from Illumina 450k methylation arrays

Author Jean-Philippe Fortin, Celia M.T. Greenwood, Aurelie Labbe

Maintainer Jean-Philippe Fortin <jfortin@jhsph.edu>

License Artistic-2.0

Depends R (>= 3.0.0)

biocViews ExperimentData, MethylationArrayData

git_url https://git.bioconductor.org/packages/ARRmData

git_branch RELEASE_3_22

git_last_commit 2d2dd34

git_last_commit_date 2025-10-29

Repository Bioconductor 3.22

Date/Publication 2025-12-11

Contents

`betaMatrix` *Example of a matrix of Beta values from the Illumina 450k array*

Description

The matrix contains the Beta values of a set of 36 samples from the Illumina Infinium HumanMethylation 450k array

Usage

```
data(betaMatrix)
```

Format

A data frame with 485577 observations (rows) and 36 samples (columns)

Details

Column names correspond to the sample names (of the form 5621146025_R06C02)

See Also

`normalizeARRm` for normalization of the Beta values, `greenControlMatrix` and `redControlMatrix` for the associated negative control probe data.

Examples

```
data(betaMatrix)
```

---

greenControlMatrix *Example of a matrix containing the green negative control probes from the Illumina 450k array*

Description

The matrix contains the raw intensities of 600 negative control probes measured in the green channel for 36 samples from the Illumina Infinium HumanMethylation 450k array

Usage

```
data(greenControlMatrix)
```

Format

A data frame with 600 observations (rows) and 36 samples (columns)

Details

Column names correspond to the sample names (of the form 5621146023_R01C01). These samples correspond to those of `betaMatrix`.

See Also

`getBackground` to obtain background information, `redControlMatrix` for the equivalent negative contol probes in the red channel

Examples

```
data(greenControlMatrix)
```

redControlMatrix — *Example of a matrix containing the red negative control probes from the Illumina 450k array*

Description

The matrix contains the raw intensities of 600 negative control probes measured in the red channel for 36 samples from the Illumina Infinium HumanMethylation 450k array

Usage

```
data(redControlMatrix)
```

Format

A data frame with 600 observations (rows) and 36 samples (columns)

Details

Column names correspond to the sample names (of the form 5621146023_R01C01). These samples correspond to those of `betaMatrix`

See Also

`getBackground` to obtain background information, `greenControlMatrix` for the equivalent negative contol probes in the green channel

Examples

```
data(redControlMatrix)
```

sampleNames — *An example of sample names for the Illumina 450k array*

Description

Sample names for a dataset containing 36 samples from the Illumina Infinium HumanMethylation 450k array.

Usage

```
data(sampleNames)
```

Format

A character vector

Details

Names are of the form 5621146023_R01C01. These sample names correspond to the names of the samples in `betaMatrix`

See Also

getDesignInfo to obtain design information,

Examples

```
data(sampleNames)
```

Index