Package 'mCSEAdata'

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Title Data package for mCSEA package Version 1.8.0 Author Jordi Martorell Marugán Maintainer Jordi Martorell Marugán < Maintainer Jordi Martorell Marugán < Description Data objects necessary to some mCSEA package functions. There are also example data objects to illustrate mCSEA package functionality. Depends R (>= 3.5) Suggests BiocStyle, knitr, rmarkdown VignetteBuilder knitr biocViews Homo_sapiens_Data, MethylationArrayData, MicroarrayData, ExperimentData License GPL-2 Encoding UTF-8 LazyData true git_url https://git.bioconductor.org/packages/mCSEAdata git_branch RELEASE_3_11 git_last_commit_date 2020-04-27 Date/Publication 2020-10-12 R topics documented: mCSEAdata-package bandTable mcseadata Index	Type Package
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Suggests BiocStyle, knitr, rmarkdown VignetteBuilder knitr biocViews Homo_sapiens_Data, MethylationArrayData, MicroarrayData, ExperimentData License GPL-2 Encoding UTF-8 LazyData true git_url https://git.bioconductor.org/packages/mCSEAdata git_branch RELEASE_3_11 git_last_commit_date 2020-04-27 Date/Publication 2020-10-12 R topics documented: mCSEAdata-package bandTable mcseadata	
VignetteBuilder knitr biocViews Homo_sapiens_Data, MethylationArrayData, MicroarrayData, ExperimentData License GPL-2 Encoding UTF-8 LazyData true git_url https://git.bioconductor.org/packages/mCSEAdata git_branch RELEASE_3_11 git_last_commit 3dedccb git_last_commit_date 2020-04-27 Date/Publication 2020-10-12 R topics documented: mCSEAdata-package bandTable mcseadata	Depends R (>= 3.5)
biocViews Homo_sapiens_Data, MethylationArrayData, MicroarrayData, ExperimentData License GPL-2 Encoding UTF-8 LazyData true git_url https://git.bioconductor.org/packages/mCSEAdata git_branch RELEASE_3_11 git_last_commit_date 2020-04-27 Date/Publication 2020-10-12 R topics documented: mCSEAdata-package bandTable mcseadata	Suggests BiocStyle, knitr, rmarkdown
ExperimentData License GPL-2 Encoding UTF-8 LazyData true git_url https://git.bioconductor.org/packages/mCSEAdata git_branch RELEASE_3_11 git_last_commit_date 2020-04-27 Date/Publication 2020-10-12 R topics documented: mCSEAdata-package bandTable mcseadata	VignetteBuilder knitr
Encoding UTF-8 LazyData true git_url https://git.bioconductor.org/packages/mCSEAdata git_branch RELEASE_3_11 git_last_commit_3dedccb git_last_commit_date 2020-04-27 Date/Publication 2020-10-12 R topics documented: mCSEAdata-package bandTable mcseadata	
LazyData true git_url https://git.bioconductor.org/packages/mCSEAdata git_branch RELEASE_3_11 git_last_commit 3dedccb git_last_commit_date 2020-04-27 Date/Publication 2020-10-12 R topics documented: mCSEAdata-package bandTable mcseadata	License GPL-2
git_url https://git.bioconductor.org/packages/mCSEAdata git_branch RELEASE_3_11 git_last_commit_3dedccb git_last_commit_date 2020-04-27 Date/Publication 2020-10-12 R topics documented: mCSEAdata-package bandTable mcseadata	Encoding UTF-8
git_branch RELEASE_3_11 git_last_commit 3dedccb git_last_commit_date 2020-04-27 Date/Publication 2020-10-12 R topics documented: mCSEAdata-package bandTable mcseadata	LazyData true
git_last_commit 3dedccb git_last_commit_date 2020-04-27 Date/Publication 2020-10-12 R topics documented: mCSEAdata-package bandTable mcseadata	git_url https://git.bioconductor.org/packages/mCSEAdata
git_last_commit_date 2020-04-27 Date/Publication 2020-10-12 R topics documented: mCSEAdata-package bandTable mcseadata	git_branch RELEASE_3_11
Date/Publication 2020-10-12 R topics documented: mCSEAdata-package bandTable mcseadata	git_last_commit 3dedccb
R topics documented: mCSEAdata-package	git_last_commit_date 2020-04-27
mCSEAdata-package	Date/Publication 2020-10-12
bandTable	R topics documented:
Index	bandTable
	Index

2 bandTable

mCSEAdata-package

Data and examples for mCSEA package

Description

Association files between Illumina's 450K and EPIC microarrays probes and promoters, CpG Islands and gene bodies. Annotation for the previous microarrays' probes. There are also sample data from EPIC platform and expression microarrays to test mCSEA functions and a necessary object for mCSEAPlot function.

Author(s)

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Examples

data(mcseadata)
data(bandTable)

bandTable

Human chromosomes information

Description

bandTable contains chromosomes band information and centromer location. It is used by mC-SEAPlot() function to plot the chromosome track.

Usage

data(bandTable)

Format

data.frame

Source

Obtained with Gviz's IdeogramTrack() function.

mcseadata 3

mcseadata

Data and examples for mCSEA package

Description

Association files between Illumina's 450K and EPIC microarrays probes and promoters, CpG Islands and gene bodies. There are also sample data from EPIC platform to test mCSEA functions and annotation for 450K and EPIC probes.

Usage

data(mcseadata)

Format

 $matrix \ (betaTest \ and \ exprTest), \ data. frame \ (phenoTest), \ list \ (assocPromoters450k, \ assocPromotersEPIC, \ assocCGI450k \ and \ assocCGIEPIC) \ and \ GRanges \ (annot450K \ and \ annotEPIC)$

Source

betaTest and phenoTest are simulated data. exprTest was obtained from leukemiasEset package. annot450K and annotEPIC were constructed with minfi package. assocPromoters450k, assocPromotersEPIC, assocGenes450k, assocGenesEPIC, assocCGI450k and assocCGIEPIC were constructed from IlluminaHumanMethylation450kanno.ilmn12.hg19 and IlluminaHumanMethylationEPICanno.ilm10b2.hg19 packages annotation data.

Index

```
* datasets
    bandTable, 2
    mcseadata, 3
    mCSEAdata-package, 2
annot450K (mcseadata), 3
annotEPIC (mcseadata), 3
assocCGI450k (mcseadata), 3
{\tt assocCGIEPIC} \; ({\tt mcseadata}), \; 3
assocGenes450k (mcseadata), 3
assocGenesEPIC (mcseadata), 3
assocPromoters450k (mcseadata), 3
{\tt assocPromotersEPIC}\ ({\tt mcseadata}),\ 3
bandTable, 2
betaTest (mcseadata), 3
exprTest (mcseadata), 3
mCSEAdata (mCSEAdata-package), 2
mcseadata, 3
mCSEAdata-package, 2
phenoTest (mcseadata), 3
```