

ccTutorial

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| | |
|---|--|
| X | <i>ExpressionSet containing ChIP-chip data</i> |
|---|--|

Description

Preprocessed ChIP-chexpression data from *M. musculus* brain and heart cells. H3K4me3 ChIP and input samples were hybridized to a set of four custom NimbleGen microarrays with non-overlapping sets of 390k reporters each. The results were preprocessed per array type and the result fold changes were combined via `rbind` afterwards, resulting in this `ExpressionSet` with 1.5m reporters.

Usage

```
data(X)
```

Format

Preprocessed ChIP-chip data as an `ExpressionSet` with 1495582 features, 2 samples.

Details

This `ExpressionSet` is created in the vignette, but for purposes of speed and for computers with small RAM, we provide it as a data object here as well.

See Also

[ExpressionSet-class](#), [preprocess](#)

Examples

```
data("X"); show(X); pData(X)
```

```
arrayGenesToProbeSets
```

Mapping of Ensembl mm9 genes to Affymetrix Mouse 430v2 probe sets

Description

This is a mapping of Ensembl mm9 genes to Affymetrix Mouse 430v2 probe sets. Only Ensembl mm9 genes that mapped at least one probe set on the array are included in the list. This mapping was created using biomaRt on 27 May 2008. Users can create this list themselves and the supplement contains the source code for doing this. For convenience sake, this object is given as a data object.

Usage

```
data(arrayGenesToProbeSets)
```

Format

a list with 14643 entries.

Details

created using biomaRt package in May 2008

Examples

```
data(arrayGenesToProbeSets)
head(arrayGenesToProbeSets)
table(listLen(arrayGenesToProbeSets))
```

```
barreraExpressionX Barrera expression data
```

Description

Preprocessed expression data for five *M. musculus* tissues. Samples were hybridized to Affymetrix's mouse430v2 array platform, preprocessed using the MAS5 method, as implemented in Bioconductor's package *affy*.

Usage

```
data(barreraExpressionX)
```

Format

Preprocessed expression data as an `ExpressionSet` with 45101 features, 5 samples.

Details

see the supplement for the code chunk that was used to read in the CEL files that are in the `expression` directory of the package and to preprocess them.

See Also

[ExpressionSet-class, mas5](#)

Examples

```
data(barreraExpressionX)
show(barreraExpressionX)
## the raw data is here:
dir(system.file("expression", package="ccTutorial"))
```

ccTutorial-package *What the package does (short line)*

Description

Data package for a Bioconductor ChIP-chip tutorial

Details

| | |
|----------|----------------------|
| Package: | ccTutorial |
| Type: | Package |
| Version: | 1.0 |
| Date: | 2008-04-29 |
| License: | Artistic License 2.0 |

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chersX *List of found ChIP-enriched regions*

Description

This is the list of found ChIP-enriched regions. The package contains all the data to recreate the list and this list is merely given for convenience sake.

Usage

```
data(chersX)
```

Format

A `cherList`, a list of `cher` objects.

See Also

[cher-class](#)

Examples

```
data(chersX)
head(chersX)
```

mm9.g2p

Mapping of Ensembl mm9 genes and reporter match positions

Description

a list holding for each mm9 gene annotated in the Ensembl database, which reporter - if any - have been mapped into its upstream or transcribed region. Users can create this list themselves and the manuscript contains the source code for doing this. For convenience sake, this list is also given as a data object.

Usage

```
data(mm9.g2p)
```

Format

a list with 27434 entries.

See Also

[features2Probes](#)

Examples

```
data(mm9.g2p)
head(mm9.g2p)
## how many reporters are mapped per gene:
if (interactive())
  hist(listLen(mm9.g2p))
```

| | |
|-------------|---|
| mm9.gene2GO | <i>GO annotation of Ensembl mm9 genes</i> |
|-------------|---|

Description

a list holding the GO terms annotated for each mm9 gene annotated in Ensembl, as retrieved using biomaRt. Users can create this list themselves and the supplement contains the source code for doing this. For convenience sake, this is also given as a data object.

Usage

```
data(mm9.gene2GO)
```

Format

a list with 10526 entries.

Details

created using biomaRt package in March 2008

Examples

```
data(mm9.gene2GO)
head(mm9.gene2GO)
## how many genes are annotated per GO term:
mean(listLen(mm9.gene2GO))
table(listLen(mm9.gene2GO))
```

| | |
|----------|---|
| mm9genes | <i>data frame of mm9 genes in Ensembl</i> |
|----------|---|

Description

~~ A concise (1-5 lines) description of the dataset. ~~

Usage

```
data(mm9genes)
```

Format

A data frame with 27434 observations on the following 8 variables.

name a character vector
chr a character vector
strand a numeric vector
start a numeric vector
end a numeric vector
symbol a character vector
description a character vector
feature a character vector

Details

created using biomaRt package in March 2008

Source

~~ reference to a publication or URL from which the data were obtained ~~

References

~~ possibly secondary sources and usages ~~

Examples

```
data(mm9genes)
## maybe str(mm9genes) ; plot(mm9genes) ...
```

probeAnno

probeAnno object holding mapping of reporters to genomic positions

Description

This object of class `probeAnno` holds the mapping of the reporters on the tiling microarrays to positions in the mouse genome (assembly: mm9).

Usage

```
data(probeAnno)
```

Format

The format is: Formal class 'probeAnno' [package "Ringo"]

Details

The package's supplementary vignette shows how this object is constructed from the output of the alignment tool Exonerate. For sake of speed and for computers with small amounts of RAM, we also provide it as a data object here.

See Also

[probeAnno-class](#)

Examples

```
## Not run:
data("probeAnno"); show(probeAnno);
  chromosomeNames(probeAnno)
## End(Not run)
```

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