Package 'a4Preproc'

October 11, 2022

Type Package
Title Automated Affymetrix Array Analysis Preprocessing Package
Version 1.44.0
Date 2020-10-14
Description Utility functions to preprocess data for the Automated Affymetrix Array Analysis set of packages.
Imports BiocGenerics, Biobase
Suggests ALL, hgu95av2.db, knitr, rmarkdown
License GPL-3
biocViews Microarray, Preprocessing
RoxygenNote 7.1.1
VignetteBuilder knitr
git_url https://git.bioconductor.org/packages/a4Preproc
git_branch RELEASE_3_15
git_last_commit 2523812
git_last_commit_date 2022-04-26
Date/Publication 2022-10-11
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R topics documented:
addGeneInfo
Index

2 addGeneInfo

addGeneInfo

Utility Function to Add Annotation to existing ExpressionSet Objects

Description

Adds appropriate featureData, similar to the metadata added in the pipeline script, to the ExpressionSet object.

Usage

```
addGeneInfo(eset, annotationLibrary = NULL)
```

Arguments

eset

ExpressionSet object for to which one wants to add additional annotation information

annotationLibrary

Annotation Library to use. Must be specified when working with Entrez gene IDs. In this case, one can make use of the JnJ annotation packages such as hgu133plus2hsentrezgJnJ. If not specified, the annotation of the package will be automatically requested with annotation() of the expressionSet object eset and then Affymetrix probe set IDs are expected in featureNames

Details

Slots of featureData(a4ALL) are

- Entrez ID~: Entrez ID as retrieved from annotation package
- Ensembl ID~: Ensembl ID as retrieved from annotation package
- Gene Symbol~: Gene symbol as retrieved from annotation package
- Description~: Description as retrieved from annotation package

Value

a new ExpressionSet object with the additional information stored as feature data

Note

One should always use subscripting of featureData by column name (e.g. featureData(a4ALL)*Entrez ID; as the pipeline ExpressionSets have one additional column compared to the ExpressionSet objects produced by addGeneInfo, i.e. column 2 of the pipeline ExpressionSets corresponds to column one of an addGeneInfo ExpressionSet.

Author(s)

Tobias Verbeke, Steven Osselaer

addGeneInfo 3

Examples

```
library(ALL)
data(ALL)
a4ALL <- addGeneInfo(ALL)
head(featureData(a4ALL)$`Entrez ID`)</pre>
```

Index

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* manip addGeneInfo, 2
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 ${\tt addGeneInfo, 2}\\$