

Package ‘scanMiRData’

May 9, 2024

Type Package

Title miRNA Affinity models for the scanMiR package

Version 1.10.0

Depends R (>= 4.0)

Date 2023-07-03

Imports scanMiR, utils

Suggests knitr, rmarkdown, BiocStyle

Description This package contains companion data to the scanMiR package. It contains
`KdModel` (miRNA 12-mer binding affinity models) collections corresponding
to all human, mouse and rat mirbase miRNAs. See the scanMiR package for
details.

BiocType ExperimentData

License GPL-3

VignetteBuilder knitr

RoxygenNote 7.1.1

biocViews miRNAData, ExperimentData, Homo_sapiens_Data,
Mus_musculus_Data, Rattus_norvegicus_Data

git_url <https://git.bioconductor.org/packages/scanMiRData>

git_branch RELEASE_3_19

git_last_commit b50b428

git_last_commit_date 2024-04-30

Repository Bioconductor 3.19

Date/Publication 2024-05-09

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getKdModels	<i>getKdModels</i>
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Description

Returns a collection of miRNA KdModels for the requested species. *Note that by default, low-confidence miRNAs are not returned* (see ‘categories’).

Usage

```
getKdModels(species = c("hsa", "mmu", "rno"), categories = NULL)
```

Arguments

species	Either "hsa" (human), "mmu" (mouse) or "rno" (rat)
categories	The categories of miRNAs to return. Any combination of "Low-confidence", "Poorly conserved", "Conserved across mammals", "Conserved across vertebrates". If NULL (default), all categories are returned. miRNAs with NA as conservation are not returned unless ‘categories==NULL’.

Value

An object of class `KdModellist`

Examples

```
mods <- getKdModels("rno")
summary(mods)
```

KdModels-hsa	<i>KdModelList for human miRNAs</i>
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Description

A list of binding affinity models ([KdModel](#)) for human ('hsa'), mouse ('mmu'), or rat ('rno') miRbase 21.1 miRNAs. These represent the miRNA 12-mer binding affinities predicted using the CNN from McGeary, Lin et al. (2019).

Value

a [KdModelList](#) list.

KdModels-mmu	<i>KdModelList for mouse miRNAs</i>
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Description

A list of binding affinity models ([KdModel](#)) for mouse miRbase 21.1 miRNAs. These represent the miRNA 12-mer binding affinities predicted using the CNN from McGeary, Lin et al. (2019).

Value

a [KdModelList](#) list.

KdModels-rno	<i>KdModelList for rat miRNAs</i>
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Description

A list of binding affinity models ([KdModel](#)) for rat miRbase 21.1 miRNAs. These represent the miRNA 12-mer binding affinities predicted using the CNN from McGeary, Lin et al. (2019).

Value

a [KdModelList](#) list.

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