Package 'scanMiRData'

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Type Package

Title miRNA Affinity models for the scanMiR package

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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

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`getKdModels` *getKdModels*

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 *KdModelList for human miRNAs*

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 *KdModelList for mouse miRNAs*

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 *KdModelList for rat miRNAs*

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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