

# miRBaseVersions.db

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miRBaseVersions.db     *miRBaseVersions.db: miRNA name collection of 22 different miRBase release versions.*

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## Description

object of `MiRBaseVersionsDb` class holds the sqlite database connection, and extends `AnnotationDb` class from `AnnotationDbi` package. `columns`, `keys`, `keytypes` and `select` methods allow access to database tables and retrieval of miRNA target information.

`select` is for querying the database to retrieve information about mature miRNA names from selected versions.

## Usage

```
columns(x)
keytypes(x)
keys(x, keytype)
select(x, keys, columns, keytype)
```

```
.onLoad(libname, pkgname)
```

## Arguments

|                      |  |
|----------------------|--|
| <code>libname</code> | Name of library (automatically passed on at start up)  |
| <code>pkgname</code> | Package name (automatically passed on at start up)   |
| <code>x</code>       | the <code>miRBaseVersions.db</code>  |
| <code>keytype</code> | represents the table from which data shall be received. All possible keytypes can be viewed by using the <code>keytypes</code> method. |
| <code>keys</code>    | the accession name of mature miRNAs. All possible keys (miRNAs) are returned by using the <code>keys</code> method.                    |
| <code>columns</code> | that can be returned for each miRNA. All possible columns can be shown by using the <code>columns</code> method.                       |

## Details

This annotation package comprises mature miRNA names from 22 different miRBase versions. It contains one main table holding all miRNAs and one view for each version, such as 'vw-mimat-22.0' for mature miRNA names from version 22.0.

**Value**

string vectors, for select a data.frame with selected columns.

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**Examples**

```
# see all available tables
keytypes(miRBaseVersions.db)
# see column names
columns(miRBaseVersions.db)
```

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