

Package ‘TBX20BamSubset’

May 15, 2025

Title Subset of BAM files from the ``TBX20'' experiment

Description Dual transcriptional activator and repressor roles of TBX20 regulate adult cardiac structure and function. A subset of the RNA-Seq data.

Version 1.44.0

Author D. Bindreither

Maintainer D. Bindreither <daniel.bindreither@gmail.com>

Depends Rsamtools (>= 1.9.8)

Imports xtable

Collate getBamFileList.R

biocViews ExperimentData, SequencingData, RNASeqData

License LGPL

git_url <https://git.bioconductor.org/packages/TBX20BamSubset>

git_branch RELEASE_3_21

git_last_commit fed74e5

git_last_commit_date 2025-04-15

Repository Bioconductor 3.21

Date/Publication 2025-05-15

Contents

TBX20BamSubset-package	2
getBamFileList	2

Index	4
--------------	----------

TBX20BamSubset-package

Utilities returning the paths to BAM files of the data package

Description

The package contains 6 subset of BAM files from the TBX20 RNA-Seq experiment.

Details

The TBX20 data set basically provides ChIP-Seq and RNA-Seq data. In here only the RNA-Seq part of the data is utilized. TBX20 (T-box 20) is a transcriptional regulator essential for cardiac development and maintenance of mouse heart tissue. In this study TXB20 was knocked out by using a Tamoxifen mediated conditional knock-out system. Transcriptional changes caused by the ablation of the second exon of TBX20 result in rapid onset of heart failures and the subsequent death of the mice. TBX20 knock-out adult heart tissue was compared to wild type adult heart tissue. The associated RNA-Seq raw data can be retrieved by the following code chunk.

References

Noboru J. Sakabe, Ivy Aneas, Tao Shen, Leila Shokri, Soo-Young Park, Martha L. Bulyk, Sylvia M. Evans and Marcelo A. Nobrega Human Molecular Genetics Date: Feb 2012 *Dual transcriptional activator and repressor roles of TBX20 regulate adult cardiac structure and function*

Examples

```
bfs <- getBamFileList()
```

getBamFileList

Retrieving file paths pointing to the BAM files.

Description

Retrieves the file paths for accessing the data of the TBX20BamSubset package.

Usage

```
getBamFileList(...)
```

Arguments

... Arguments to be passed to or from methods.

Details

Accessory function to the BAM files of the TBX20BamSubset package.

Value

Returns a named character vector pointing to the BAM files included in TBX20BamSubset package.

Author(s)

D. Bindreither

See Also

[TBX20BamSubset](#)

Examples

```
bf1 <- getBamFileList()  
bf1
```

Index

* **utilities**

 TBX20BamSubset-package, [2](#)

getBamFileList, [2](#)

TBX20BamSubset, [3](#)

TBX20BamSubset
 (TBX20BamSubset-package), [2](#)

TBX20BamSubset-package, [2](#)