Package 'LungCancerLines'

June 1, 2023

Type Package
Title Reads from Two Lung Cancer Cell Lines
Version 0.38.0
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Imports Rsamtools
Description Reads from an RNA-seq experiment between two lung cancer cell lines: H1993 (met) and H2073 (primary). The reads are stored as Fastq files and are meant for use with the TP53Genome object in the gmapR package.
License Artistic-2.0
biocViews ExperimentData, Genome, CancerData, LungCancerData, RNASeqData
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R topics documented:
TP53Genome-package LungCancerBamFiles LungCancerFastqFiles
Index

TP53Genome-package Genomic Sequence of the TP53 Gene Plus a 1-Megabase Region on Each Side of the Gene

Description

This package was created to use in examples and test sets for the gmapR and VariationTools packages.

Details

Package: TP53Genome
Type: Package
Version: 1.0
Date: 2012-09-05
License: Artistic-2.0

By calling data(p53Genome), users will have access to a GmapGenome object for the TP53 genome.

Author(s)

Cory Barr

Examples

data(p53Genome)

LungCancerBamFiles Get the BAM paths

Description

Gets a BamFileList pointing to BAM files containing read alignments for the H1993 and H2073 RNA-seq samples. The files are the "analyzed" BAM files as output by the HTSeqGenie package.

Usage

LungCancerBamFiles()

LungCancerFastqFiles 3

Details

The reads were aligned to genome TP53Genome, using the following parameters:

```
• splicing: knownGene
```

- novelsplicing: 1
- indel_penalty: 1
- distant_splice_penalty: 1
- suboptimal_levels: 2
- npaths: 10

Note that the BAM files contain only unique alignments.

Value

A BamFileList pointing to two BAM files, one for H1993, one for H2073.

Author(s)

Michael Lawrence

Examples

LungCancerBamFiles()

LungCancerFastqFiles Get the Fastq paths

Description

Returns a character vector of file paths to the demo Fastq files.

Usage

```
LungCancerFastqFiles()
```

Value

A character vector, named according to "H[1993/2073].[first/last]".

Author(s)

Michael Lawrence

Examples

```
LungCancerFastqFiles()
```

Index

```
LungCancerBamFiles, 2
LungCancerFastqFiles, 3
TP53Genome, 3
TP53Genome (TP53Genome-package), 2
TP53Genome-package, 2
```