Package 'breakpointRdata'

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Type Package	
Title Strand-seq data for demonstration purposes	
Version 1.26.0	
Date 2016-08	
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Description Strand-seq data to demonstrate functionalities of breakpointR package.	
Depends R (>= 3.5)	
Suggests knitr, BiocStyle,	
License file LICENSE	
VignetteBuilder knitr	
biocViews ExperimentData, Homo_sapiens_Data, SequencingData, DNASeqData, Genome, SingleCellData	
NeedsCompilation no	
<pre>URL https://github.com/daewoooo/breakpointRdata</pre>	
RoxygenNote 6.1.0	
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Contents	
1 -	2 2
Index	4

2 example_results

example_bams

Example BAM-files

Description

A set of BAM-files for demonstration purposes of the functions in package breakpointR.

Format

A BAM files with aligned reads with one read per line.

Details

BAM files contain single-end reads aligned to GRCh38 reference genome. Read sequences and quality values have been removed in order to reduce the file size.

Source

A lyphoblastoid cell line of Puerto Rican origin (HG00731). Raw reads were aligned to the GRCh38/hg38 reference assembly. The file has been downsampled to 20% of the coverage to reduce the file size.

References

https://www.biorxiv.org/content/early/2017/09/23/193144

example_results

Results for example BAM-files

Description

Localized breakpoints in example BAM-files, generated by the **breakpointR** package.

Format

Files containing BreakPoint object.

Details

A BreakPoint object is a list containing given elements: ID, fragments, deltas, breaks, confint, counts, lib.metrics and params.

- ID unique identifier for a given library.
- fragments A GRanges-class object that stores analyzed sequencing reads.
- deltas A GRanges-class object that stores binned minus reads differences.

example_results 3

- breaks A GRanges-class object that stores localized breaks.
- confint A GRanges-class object that stores confidence intervals around localized breaks.
- counts A GRanges-class object that stores directional read counts in between localized breaks.
- lib.metrics A named vector with some useful library metrics.
- params A named vector with user defined parameters used to run **breakpointR** package.

Source

A lyphoblastoid cell line of Puerto Rican origin (HG00731). Raw reads were aligned to the GRCh38/hg38 reference assembly.

References

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Index

```
bams (example_bams), 2
example_bams, 2
example_results, 2
results (example_results), 2
```