Package 'breakpointRdata'

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Type Package Title Strand-seq data for demonstration purposes Version 1.25.0 Date 2016-08 Author David Porubsky, Aaron Taudt, Ashley Sanders Maintainer David Porubsky <david.porubsky@gmail.com> 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 URL https://github.com/daewoooo/breakpointRdata RoxygenNote 6.1.0 git_url https://git.bioconductor.org/packages/breakpointRdata git_branch devel git_last_commit ff6412b git_last_commit_date 2024-10-29 **Repository** Bioconductor 3.21

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example_bams

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.

- 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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