Package 'breakpointRdata'

October 3, 2024

| Type Package | |
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| Title Strand-seq data for demonstration purposes | |
| Version 1.22.0 | |
| 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 | |
| URL https://github.com/daewoooo/breakpointRdata | |
| RoxygenNote 6.1.0 | |
| git_url https://git.bioconductor.org/packages/breakpointRdata | |
| git_branch RELEASE_3_19 | |
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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.

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- 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

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

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