# Package 'breakpointRdata'

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Type Package	
Title Strand-seq data for demonstration purposes	
<b>Version</b> 1.26.0	
<b>Date</b> 2016-08	
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<b>Description</b> Strand-seq data to demonstrate functionalities of breakpointR package.	
<b>Depends</b> 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	
git_url https://git.bioconductor.org/packages/breakpointRdata	
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Repository Bioconductor 3.21	
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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

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