Package ‘MMDiffBamSubset’

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Type Package

Title Example ChIP-Seq data for the MMDiff package

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Description Subset of BAM files, including WT_2.bam, Null_2.bam, Resc_2.bam, Input.bam from the ‘Cfp1’ experiment (see Clouaire et al., Genes Dev. 2012). Data is available under ArrayExpress accession numbers E-ERAD-79. Additionally, corresponding subset of peaks called by MACS

biocViews ExperimentData, Genome, StemCell, Mus_musculus_Data, DNASeqData, ChIPSeqData, ArrayExpress

Suggests MMDiff2

License LGPL

NeedsCompilation no

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Utilities returning the paths to the sample sheet Cfp1.csv, to the BAM files WT_2.bam, Null_2.bam, Resc_2.bam and Input.bam, as well as corresponding peak files WT_2_Macs_peaks.xls, Null_2_Macs_peaks.xls Resc_2_Macs_peaks.xls
Description

Cfp1.csv Sample Sheet containing meta information about the experiment.
BAM files each containing subsets of original files with reads mapping to region ch1:3000000...75000000.
The data is available as part of ArrayExpress Experiment E-ERAD-79, which contains ChIP-Seq of mice cells to assess the link between histone modification states of H3K4me3 with respect to the mediator proteins Cfp1.
WT_2.bam: organism: Mus musculus; Cell type: ES cells, Immunoprecipitate: H3K4me3
Null_2.bam: organism: Mus musculus; Cell type: Cfp1 -/- ES cells, Immunoprecipitate: H3K4me3
Resc_2.bam: organism: Mus musculus; Cell type: Cfp1-/- ES cells and wtCfp1 rescue cDNA, Immunoprecipitate: H3K4me3
Input.bam: organism: Mus musculus; input DNA (pooled from different cell types)
Additionally, subsets of peaks called by MACS[2] are provided.
WT.AB2, Null.AB2, Resc.AB2 and Input return the path to those files.
WT.AB2.Peaks, Null.AB2.Peaks and Resc.AB2.Peaks return the path to the respective peak files.

Usage

Cfp1.Exp()
WT.AB2()
Null.AB2()
Resc.AB2()
Input()
WT.AB2.Peaks()
Null.AB2.Peaks()
Resc.AB2.Peaks()

Details

See the MMDiff package or [1] for details about the experiment (ChIP-seq, H3K4me3, Mus musculus). BAM files contain single-end reads aligned to reference genome NBCI37/mm9

References


Examples

Cfp1.Exp()
WT.AB2()
Null.AB2()
Resc.AB2()
Input()
WT.AB2.Peaks()
Null.AB2.Peaks()
Resc.AB2.Peaks()
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