

# mosaicsExample

March 23, 2012

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`exampleBinData`      *STAT1 ChIP-seq Dataset*

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## Description

This is the STAT1 ChIP-seq dataset used in Kuan et al. (2010).

## Usage

```
data(exampleBinData)
```

## Format

`BinData` class object containing bin-level ChIP data, control sample data, mappability score, GC content score, and sequence ambiguity score.

## Details

ChIP data and control sample data are chromosome 21 data from a ChIP-seq experiment of STAT1 binding in interferon-gamma-stimulated HeLa S3 cells (Rozowsky et al., 2009). Mappability score, GC content score, and sequence ambiguity score are calculated from human genome HG18. See the vignette of R package `mosaics` and Kuan et al. (2010) for more details.

## Source

Rozowsky, J, G Euskirchen, R Auerbach, D Zhang, T Gibson, R Bjornson, N Carriero, M Snyder, and M Gerstein (2009), "PeakSeq enables systematic scoring of ChIP-Seq experiments relative to controls", *Nature Biotechnology*, 27, pp. 66–75.

## References

Kuan, PF, D Chung, JA Thomson, R Stewart, and S Keles (2010), "A Statistical Framework for the Analysis of ChIP-Seq Data", submitted ([http://works.bepress.com/sunduz\\_keles/19/](http://works.bepress.com/sunduz_keles/19/)).

**Examples**

```
## Not run:
data(exampleBinData)
library(mosaics)
exampleBinData

## End(Not run)
```

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`exampleFit`*MOSAICS Model Fit for STAT1 ChIP-seq Dataset*

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**Description**

This is the MOSAICS two-sample analysis model fit for `exampleBinData`.

**Usage**

```
data(exampleFit)
```

**Format**

`MosaicsFit` class object containing the model fit of MOSAICS two-sample analysis.

**Details**

The model fit of MOSAICS two-sample analysis for `exampleBinData`. See the vignette and Kuan et al. (2010) for more details.

**References**

Kuan, PF, D Chung, JA Thomson, R Stewart, and S Keles (2010), "A Statistical Framework for the Analysis of ChIP-Seq Data", submitted ([http://works.bepress.com/sunduz\\_keles/19/](http://works.bepress.com/sunduz_keles/19/)).

**Examples**

```
## Not run:
data(exampleFit)
library(mosaics)
exampleFit

## End(Not run)
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