Package 'HiCDataHumanIMR90'

November 10, 2026

Title Human IMR90 Fibroblast HiC data from Dixon et al. 2012

Description The HiC data from Human Fibroblast IMR90 cell line (HindIII restriction) was retrieved from the GEO website, accession number GSE35156 (http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE35156). The raw reads were processed as explained in Dixon et al. (Nature 2012).

Version 1.32.0

Date 2021-11-21

Author Nicolas Servant

Maintainer Nicolas Servant <Nicolas.Servant@curie.fr>

Suggests HiTC, BiocStyle

biocViews ExperimentData, Genome, Homo_sapiens_Data, GEO

License GPL-3

InstallableEverywhere yes

Depends R (>= 2.10)

git_url https://git.bioconductor.org/packages/HiCDataHumanIMR90

git_branch RELEASE_3_23

git_last_commit a73f091

git_last_commit_date 2026-04-28

Repository Bioconductor 3.23

Date/Publication 2026-11-10

Contents

Dixon2012_IMR90 2

Index **3**

`Dixon2012_IMR90` *HiC data Human IMR90*

Description

Human Fibroblast IMR90 Hi-C Data (Dixon et al.)

Usage

```
data(Dixon2012_IMR90)
```

Format

Contains one `HTClist` objects (hic_imr90_40) and one `GRanges` object (tads_imr90). The hic_imr90_40 object contains all intra/interchromosmal contact maps. The tads_imr90 object contains the intervals of topological domains.

Details

This HiC dataset published by Dixon et al (GSE35156), contains all genome-wide contact maps.

Source

http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE35156

References

Dixon JR, Selvaraj S, Yue F, Kim A et al. Topological domains in mammalian genomes identified by analysis of chromatin interactions. Nature 2012 Apr 11;485(7398):376-80.

Examples

```
data(Dixon2012_IMR90)
show(hic_imr90_40)
show(tads_imr90)
```

Index

∗ **datasets**
Dixon2012_IMR90, 2

Dixon2012_IMR90, 2

hic_imr90_40 *(*Dixon2012_IMR90*)*, 2

tads_imr90 *(*Dixon2012_IMR90*)*, 2