

# Package ‘HiCDataHumanIMR90’

April 24, 2025

**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).

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**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** devel

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| Dixon2012_IMR90 | <i>HiC data Human IMR90</i> |
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**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/interchromosomal contact maps. The `tads_imr90` object contains the intervals of topological domains.

**Details**

This HiC dataset published by Dixon et al ([GSE35156](https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=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)
```

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## \* **datasets**

Dixon2012\_IMR90, [2](#)

Dixon2012\_IMR90, [2](#)

hic\_imr90\_40 (Dixon2012\_IMR90), [2](#)

tads\_imr90 (Dixon2012\_IMR90), [2](#)