

# Package: SingleMoleculeFootprintingData (via r-universe)

October 10, 2026

**Type** Package

**Title** Data supporting the SingleMoleculeFootprinting pkg

**Version** 1.21.0

**Description** This Data package contains data objects relevant for the SingleMoleculeFootprinting package. More specifically, it contains one example of aligned sequencing data (.bam & .bai) necessary to run the SingleMoleculeFootprinting vignette. Additionally, we provide data that are essential for some functions to work correctly such as BaitCapture() and SampleCorrelation().

**biocViews** ExperimentHub, ExperimentData, SequencingData

**License** GPL-3

**Encoding** UTF-8

**LazyData** true

**Imports** ExperimentHub, utils

**Suggests** knitr, rmarkdown

**VignetteBuilder** knitr

**RoxygenNote** 7.1.1

**Config/pak/sysreqs** libicu-dev libpng-dev libssl-dev zlib1g-dev

**Repository** <https://bioc.r-universe.dev>

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**RemoteUrl** <https://github.com/bioc/SingleMoleculeFootprintingData>

**RemoteRef** HEAD

**RemoteSha** cfcabcd29c6e6c87e14496696d7556ea0bfb74ac9

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### Description

This Data package contains r objects necessary to run some of the functions from the SingleMoleculeFootprinting package. SingleMoleculeFootprinting is an R package providing functions to analyze Single Molecule Footprinting (SMF) data.

### Usage

```
NRF1pair.bam(metadata = FALSE)
NRF1pair.bam.bai(metadata = FALSE)
EnrichmentRegions_mm10.rds(metadata = FALSE)
ReferenceMethylation.rds(metadata = FALSE)
AllCs.rds(metadata = FALSE)
```

### Arguments

|          |                                                     |
|----------|-----------------------------------------------------|
| metadata | FALSE (default) returns data. TRUE returns metadata |
|----------|-----------------------------------------------------|

### Value

Returns respectively: NRF1pair.bam - Bam file containing reads covering example NRF1 pair binding locus used for SingleMoleculeFootprinting vignette. NRF1pair.bam.bai - Bam index file to Bam file used as example data in SingleMoleculeFootprinting vignette EnrichmentRegions\_mm10.rds - GRanges obj of mouse genomic regions enriched for SMF signal in genome-wide capture experiments. Can be used to compute bait capture efficiency ReferenceMethylation.rds - Reference matrix of genome-wide bulk SMF values for published experiments in mouse cell lines AllCs.rds - GRanges obj referencing the genomic context cytosines for mm10

### Examples

```
NRF1pair.bam(metadata = TRUE)
NRF1pair.bam.bai(metadata = TRUE)
EnrichmentRegions_mm10.rds(metadata = TRUE)
ReferenceMethylation.rds(metadata = TRUE)
AllCs.rds(metadata = TRUE)
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