

BSgenome.Mmulatta.UCSC.rheMac3

October 13, 2016

BSgenome.Mmulatta.UCSC.rheMac3

Full genome sequences for Macaca mulatta (UCSC version rheMac3)

Description

Full genome sequences for *Macaca mulatta* (Rhesus) as provided by UCSC (rheMac3, Oct. 2010) and stored in Biostrings objects.

Note

This BSgenome data package was made from the following source data files:

rheMac3.fa.gz from <http://hgdownload.soe.ucsc.edu/goldenPath/rheMac3/bigZips/>

See [?BSgenomeForge](#) and the BSgenomeForge vignette (`vignette("BSgenomeForge")`) in the **BSgenome** software package for how to make a BSgenome data package.

Author(s)

The Bioconductor Dev Team

See Also

- [BSgenome](#) objects and the [available.genomes](#) function in the **BSgenome** software package.
- [DNASTring](#) objects in the **Biostrings** package.
- The BSgenomeForge vignette (`vignette("BSgenomeForge")`) in the **BSgenome** software package for how to make a BSgenome data package.

Examples

```

BSgenome.Mmulatta.UCSC.rheMac3
genome <- BSgenome.Mmulatta.UCSC.rheMac3
seqlengths(genome)
genome$chr1 # same as genome[["chr1"]]

## -----
## Upstream sequences
## -----
## Starting with BioC 3.0, the upstream1000, upstream2000, and
## upstream5000 sequences for rheMac3 are not included in the BSgenome
## data package anymore. However they can easily be extracted from the
## full genome sequences with something like:

library(GenomicFeatures)
txdb <- makeTranscriptDbFromUCSC("rheMac3", "refGene")
gn <- sort(genes(txdb))
up1000 <- flank(gn, width=1000)
up1000seqs <- getSeq(genome, up1000)

## IMPORTANT: Make sure you use a TxDb package (or TranscriptDb object),
## that contains a gene model based on the exact same reference genome
## as the BSgenome object you pass to getSeq(). Note that you can make
## your own custom TranscriptDb object from various annotation resources.
## See the makeTranscriptDbFromUCSC(), makeTranscriptDbFromBiomart(),
## and makeTranscriptDbFromGFF() functions in the GenomicFeatures
## package.

## -----
## Genome-wide motif searching
## -----
## See the GenomeSearching vignette in the BSgenome software
## package for some examples of genome-wide motif searching using
## Biostrings and the BSgenome data packages:
if (interactive())
  vignette("GenomeSearching", package="BSgenome")

```

Index

*Topic **data**

BSgenome.Mmulatta.UCSC.rheMac3, [1](#)

*Topic **package**

BSgenome.Mmulatta.UCSC.rheMac3, [1](#)

available.genomes, [1](#)

BSgenome, [1](#)

BSgenome.Mmulatta.UCSC.rheMac3, [1](#)

BSgenome.Mmulatta.UCSC.rheMac3-package
(BSgenome.Mmulatta.UCSC.rheMac3),
[1](#)

BSgenomeForge, [1](#)

DNAStrng, [1](#)

Mmulatta

(BSgenome.Mmulatta.UCSC.rheMac3),
[1](#)