BSgenome.Hsapiens.UCSC.hg17

December 9, 2016

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Full genome sequences for Homo sapiens (UCSC version hg17)

Description

Full genome sequences for Homo sapiens (Human) as provided by UCSC (hg17, May 2004) and stored in Biostrings objects.

Note

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

- chromFa.zip from http://hgdownload.cse.ucsc.edu/goldenPath/hg17/bigZips/

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

Author(s)

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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.Hsapiens.UCSC.hg17
genome <- BSgenome.Hsapiens.UCSC.hg17
seqlengths(genome)
genome$chr1  # same as genome["chr1"]

## Upstream sequences
##
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## Starting with BioC 3.0, the upstream1000, upstream2000, and
## upstream5000 sequences for hg17 are not included in the BSgenome data
## package anymore. However they can easily be extracted from the full
gene sequences with something like:

library(GenomicFeatures)

## 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.

if (interactive())
  vignette("GenomeSearching", package="BSgenome")
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