BSgenome.Rnorvegicus.UCSC.rn6
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BSgenome.Rnorvegicus.UCSC.rn6
Full genome sequences for Rattus norvegicus (UCSC version rn6)

Description
Full genome sequences for Rattus norvegicus (Rat) as provided by UCSC (rn6, Jul. 2014) and stored in Biostrings objects.

Note
This BSgenome data package was made from the following source data files:
rn6.2bit from http://hgdownload.cse.ucsc.edu/goldenPath/rn6/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
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genome <- BSgenome.Rnorvegicus.UCSC.rn6
seqlengths(genome)
genome$chr1  # same as genome[['chr1']]

## ---------------------------------------------------------------
## Extract the upstream sequences
library(GenomicFeatures)
txdb <- makeTxDbFromUCSC("rn6", tablename="refGene")
up1000seqs <- extractUpstreamSeqs(genome, txdb, width=1000)

# IMPORTANT: Make sure you use a TxDb package (or TxDb object) that
# contains a gene model based on rn6 or on a compatible genome (i.e.
# a genome with sequences identical to the sequences in rn6). Note
# that you can make a TxDb object from various annotation resources.
# See the makeTxDbFromUCSC(), makeTxDbFromBiomart(), and
# makeTxDbFromGFF() functions in the GenomicFeatures package for more
# information.

# 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")
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