

BSgenome.Btaurus.UCSC.bosTau9

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Full genome sequences for Bos taurus (UCSC version bosTau9)

Description

Full genome sequences for Bos taurus (Cow) as provided by UCSC (bosTau9, Apr. 2018) and stored in Biostrings objects.

Note

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

bosTau9.2bit from <http://hgdownload.cse.ucsc.edu/goldenPath/bosTau9/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.Btaurus.UCSC.bosTau9
genome <- BSgenome.Btaurus.UCSC.bosTau9
head(seqlengths(genome))
genome$chr1 # same as genome[["chr1"]]

## -----
## Extract the upstream sequences
## -----
## The upstream sequences located in
##   http://hgdownload.cse.ucsc.edu/goldenPath/bosTau9/bigZips/
## are based on RefSeq genes (RefSeq Genes track in the Genome Browser).
## These can easily be extracted from the full genome sequences with:

library(GenomicFeatures)
refGene_txdb <- suppressWarnings(makeTxDbFromUCSC("bosTau9", "refGene"))
refGene_up1000seqs <- extractUpstreamSeqs(genome, refGene_txdb)

## Note that you can make a TxDb object from various annotation
## resources. See the makeTxDbFromUCSC(), makeTxDbFromEnsembl(), and
## makeTxDbFromGFF() functions in the GenomicFeatures package for more
## information.
## IMPORTANT: Make sure you use a TxDb package (or TxDb object) that
## contains a gene model based on bosTau9 or on a compatible genome
## (i.e. a genome with sequences identical to the sequences in bosTau9).
## See ?extractUpstreamSeqs 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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