BSgenome.Btaurus.UCSC.bosTau6

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Description

Full genome sequences for Bos taurus (Cow) as provided by UCSC (bosTau6, Nov. 2009) and stored in Biostrings objects.

Note

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


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**

```r
BSgenome.Btaurus.UCSC.bosTau6
genome <- BSgenome.Btaurus.UCSC.bosTau6
seqlengths(genome)
genome$chr1  # same as genome[["chr1"]]
```

## Upstream sequences

Starting with BioC 3.0, the upstream1000, upstream2000, and upstream5000 sequences for bosTau6 are not included in the BSgenome data package anymore. However they can easily be extracted from the full genome sequences with something like:

```r
library(GenomicFeatures)
txdb <- makeTranscriptDbFromUCSC("bosTau6", "refGene")
gn <- sort(genes(txdb))
up1000 <- flank(gn, width=1000)
up1000seqs <- getSeq(genome, up1000)
```

## Genome-wide motif searching

See the GenomeSearching vignette in the BSgenome software for some examples of genome-wide motif searching using Biostrings and the BSgenome data packages:

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