

# BSgenome.Celegans.UCSC.ce10

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BSgenome.Celegans.UCSC.ce10

*Caenorhabditis elegans (Worm) full genome (UCSC version ce10)*

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## Description

Caenorhabditis elegans (Worm) full genome as provided by UCSC (ce10, Oct. 2010) and stored in Biostrings objects.

## Note

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

```
chromFa.tar.gz
upstream1000.fa.gz
upstream2000.fa.gz
upstream5000.fa.gz
from ftp://hgdownload.cse.ucsc.edu/goldenPath/ce10/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-class](#), [DNAString-class](#), [available.genomes](#), [BSgenomeForge](#)

**Examples**

```
BSgenome.Celegans.UCSC.ce10
genome <- BSgenome.Celegans.UCSC.ce10
seqlengths(genome)
genome$chrI # same as genome[["chrI"]]

if ("AGAPS" %in% masknames(genome)) {

  ## Check that the assembly gaps contain only Ns:
  checkOnlyNsInGaps <- function(seq)
  {
    ## Replace all masks by the inverted AGAPS mask
    masks(seq) <- gaps(masks(seq)["AGAPS"])
    unique_letters <- uniqueLetters(seq)
    if (any(unique_letters != "N"))
      stop("assembly gaps contain more than just Ns")
  }

  ## A message will be printed each time a sequence is removed
  ## from the cache:
  options(verbose=TRUE)

  for (seqname in seqnames(genome)) {
    cat("Checking sequence", seqname, "... ")
    seq <- genome[[seqname]]
    checkOnlyNsInGaps(seq)
    cat("OK\n")
  }
}

## 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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