

BSgenome.Dmelanogaster.UCSC.dm6

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Full genome sequences for Drosophila melanogaster (UCSC version dm6)

Description

Full genome sequences for *Drosophila melanogaster* (Fly) as provided by UCSC (dm6, Aug. 2014) and stored in Biostrings objects.

Note

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

dm6.2bit from <http://hgdownload.cse.ucsc.edu/goldenPath/dm6/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.DrosophilaMelanogaster.UCSC.dm6
genome <- BSgenome.DrosophilaMelanogaster.UCSC.dm6
seqlengths(genome)
genome$chr2L # same as genome[["chr2L"]]

## -----
## Extract the upstream sequences
## -----
## The upstream sequences can easily be extracted from the full genome
## sequences with something like:

library(GenomicFeatures)
txdb <- makeTxDbFromUCSC("dm6", 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 dm6 or on a compatible genome (i.e.
## a genome with sequences identical to the sequences in dm6). 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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