

BSgenome.Drerio.UCSC.danRer6

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Drerio

Danio rerio (Zebrafish) full genome (UCSC version danRer6)

Description

Danio rerio (Zebrafish) full genome as provided by UCSC (danRer6, Dec. 2008) and stored in Biostrings objects.

Note

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

sequences: danRer6.fa.gz, upstream1000.fa.gz, upstream2000.fa.gz and upstream5000.fa.gz files from <http://hgdownload.cse.ucsc.edu/goldenPath/danRer6/bigZips/>
AGAPS masks: <http://hgdownload.cse.ucsc.edu/goldenPath/danRer6/database/gap.txt.gz>
RM masks: <http://hgdownload.cse.ucsc.edu/goldenPath/danRer6/bigZips/danRer6.fa.out.gz>
TRF masks: <http://hgdownload.cse.ucsc.edu/goldenPath/danRer6/bigZips/danRer6.trf.bed.gz>

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-class](#), [DNAString-class](#), [available.genomes](#), [BSgenomeForge](#)

Examples

```

Drerio
seqlengths(Drerio)
Drerio$chr1 # same as Drerio[["chr1"]]

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

  ## 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(Drerio)) {
    cat("Checking sequence", seqname, "... ")
    seq <- Drerio[[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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