BSgenome.Hsapiens.NCBI.GRCh38

July 23, 2025

`BSgenome.Hsapiens.NCBI.GRCh38` *Full genome sequences for Homo sapiens (GRCh38)*

Description

Full genome sequences for Homo sapiens (Human) as provided by NCBI (GRCh38, 2013-12-17) and stored in Biostrings objects.

Note

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

```
GCA_000001405.15_GRCh38_top-level.fna.gz from ftp://ftp.ncbi.nlm.nih.gov/genbank/genomes/Eukaryot
```

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.Hsapiens.NCBI.GRCh38
genome <- BSgenome.Hsapiens.NCBI.GRCh38
seqlengths(genome)
genome[["1"]]

## ---------------------------------------------------------------------
## 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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