phastCons100way.UCSC.hg19

November 4, 2026

`phastCons100way.UCSC.hg19-package`
Annotation package for UCSC human phastCons scores from 100 vertebrate species

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Description

This annotation package stores phastCons conservation scores from UCSC for the human genome (hg19), calculated from genome-wide multiple alignments with other 99 vertebrate species. The data are stored in the form of `Rle` objects and are loaded automatically as an object of class `GScores`. The name of the exposed object matches the name of the package and part of the filename that contained the data imported into the package. The class definition and methods to access `GScores` objects are found in the `GenomicScores` software package.

Format

`phastCons100way.UCSC.hg19` GSCores object containing phastCons conservation scores from UCSC for the human genom

Author(s)

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Source

Siepel A, Bejerano G, Pedersen JS, Hinrichs AS, Hou M, Rosenbloom K, Clawson H, Spieth J, Hillier LW, Richards S, et al. Evolutionarily conserved elements in vertebrate, insect, worm, and yeast genomes. Genome Res. 2005 Aug;15(8):1034-50. (http://www.genome.org/cgi/doi/10.1101/gr.3715005)

UCSC Genome Browser (URL: `http://genome.ucsc.edu`) [March, 2018, accessed]

See Also

GScores GenomicScores

Examples

```
library(GenomicRanges)
library(phastCons100way.UCSC.hg19)

ls("package:phastCons100way.UCSC.hg19")

phast <- phastCons100way.UCSC.hg19
phast
citation(phast)
gscores(phast, GRanges("chr7:117232380-117232384"))
```

Index

∗ **data**
phastCons100way.UCSC.hg19-package, 1
∗ **package**
phastCons100way.UCSC.hg19-package, 1

GenomicScores, *1*, *2*
GScores, *1*, *2*

phastCons100way.UCSC.hg19, *1*
phastCons100way.UCSC.hg19 *(*phastCons100way.UCSC.hg19-package*)*, 1
phastCons100way.UCSC.hg19-package, 1

Rle, *1*