## Package 'WGSmapp'

November 4, 2025

Title Mappability tracks of Whole-genome Sequencing from the ENCODE

Type Package

J
<b>Version</b> 1.23.0
Author Rujin Wang
Maintainer Rujin Wang <rujin@email.unc.edu></rujin@email.unc.edu>
Description  This package provides whole-genome mappability tracks on human hg19/hg38 assembly. We employed the 100-mers mappability track from the ENCODE Project and computed weighted average of the mappability scores if multiple ENCODE regions overlap with the same bin. "Blacklist" bins, including segmental duplication regions and gaps in reference assembly from telomere, centromere, and/or heterochromatin regions are included. The dataset consists of three assembled .bam files of single-cell whole genome sequencing from 10X for illustration purposes.
<b>Depends</b> R (>= 3.6.0), GenomicRanges
License GPL-2
biocViews ExperimentData, SequencingData, DNASeqData, SingleCellData, Homo_sapiens_Data, Genome, ENCODE
Encoding UTF-8
LazyData true
RoxygenNote 6.1.1
git_url https://git.bioconductor.org/packages/WGSmapp
git_branch devel
git_last_commit 7dcf161
git_last_commit_date 2025-10-29
Repository Bioconductor 3.23
Date/Publication 2025-11-04
Contents
mapp_hg19
1

2 mapp\_hg38

Index 3

mapp\_hg19

GRanges with mappability scores for hg19

#### Description

GRanges of mappability track for 100-mers on the GRCh37/hg19 human reference genome from ENCODE.

#### Usage

mapp\_hg19

#### **Format**

A GRanges object with 21591667 ranges and mappability scores

mapp\_hg38

GRanges with mappability scores for hg38

#### Description

Use liftOver utility to convert hg19 coordinates to hg38

#### Usage

mapp\_hg38

#### **Format**

A GRanges object with 21584930 ranges and mappability scores

# **Index**

### $*\ datasets$

mapp\_hg19, 2 mapp\_hg38, 2

mapp\_hg19, 2 mapp\_hg38, 2