

Package ‘GeuvadisTranscriptExpr’

September 22, 2026

Type Package
Title Data package with transcript expression and bi-allelic genotypes from the GEUVADIS project
Version 1.40.0
Date 2025-06-27
Description Provides transcript expression and bi-allelic genotypes corresponding to the chromosome 19 for CEU individuals from the GEUVADIS project, Lappalainen et al.
Depends R (>= 3.3.0)
License GPL (>= 3)
LazyData true
biocViews Homo_sapiens_Data, SNPData, Genome, RNASeqData, SequencingData, ExpressionData
VignetteBuilder knitr
Suggests limma, rtracklayer, GenomicRanges, Rsamtools, VariantAnnotation, tools, BiocStyle, knitr, testthat
NeedsCompilation no
Author Malgorzata Nowicka [aut, cre]
Maintainer Malgorzata Nowicka <gosia.nowicka@uzh.ch>
git_url <https://git.bioconductor.org/packages/GeuvadisTranscriptExpr>
git_branch RELEASE_3_23
git_last_commit 302da61
git_last_commit_date 2026-04-28
Repository Bioconductor 3.23
Date/Publication 2026-09-22

Contents

counts	2
Index	4

counts

Sample data for sQTL analysis

Description

Subsets of raw data available in this package and saved as Rdata objects for faster loading.

Usage

counts

gene_ranges

genotypes

snp_ranges

Format

counts is a data frame with subset of counts from TrQuantCount_CEU_chr19.tsv

gene_ranges is a GRanges object containing subset of gene coordinates from genes_chr19.bed

genotypes is a data frame with subset of genotypes from genotypes_CEU_chr19.tsv

snp_ranges is a Granges object containing subset of SNP coordinates from genotypes_CEU_chr19.tsv

For all the details on how these data sets were produced, see examples.

Value

counts, gene_ranges, genotypes, snp_ranges

Source

Lappalainen T, Sammeth M, Friedlander MR, et al. Transcriptome and genome sequencing uncovers functional variation in humans. Nature. 2013;501(7468):506-11

Examples

```
library(rtracklayer)
data_dir <- system.file("extdata", package = "GeuvadisTranscriptExpr")

gene_id_subset <- readLines(file.path(data_dir, "gene_id_subset.txt"))
snp_id_subset <- readLines(file.path(data_dir, "snp_id_subset.txt"))

# Load gene ranges with names!
gene_ranges <- import(file.path(data_dir, "genes_chr19.bed"))
names(gene_ranges) <- mcols(gene_ranges)$name

gene_ranges <- gene_ranges[gene_id_subset, ]
```

```
# Load transcript counts
counts <- read.table(file.path(data_dir, "TrQuantCount_CEU_chr19.tsv"),
                     header = TRUE, sep = "\t", as.is = TRUE)

counts <- counts[counts$Gene_Symbol %in% gene_id_subset, ]

# Load genotypes
genotypes <- read.table(file.path(data_dir, "genotypes_CEU_chr19.tsv"),
                        header = TRUE, sep = "\t", as.is = TRUE)

genotypes <- genotypes[genotypes$snpId %in% snp_id_subset, ]

# Create SNP ranges with names!
snp_ranges <- GRanges(Rle(genotypes$chr), IRanges(genotypes$start,
                                                  genotypes$end))
names(snp_ranges) <- genotypes$snpId
```

Index

* **datasets**

counts, [2](#)

counts, [2](#)

gene_ranges (counts), [2](#)

genotypes (counts), [2](#)

snp_ranges (counts), [2](#)