Package 'chipenrich.data'

April 14, 2020

```
Title Companion package to chipenrich
```

Version 2.10.0

Date 2018-04-26

Description Supporting data for the chipenrich package. Includes predefined gene sets, gene locus definitions, and mappability estimates.

biocViews ChIPSeq, Epigenetics, FunctionalGenomics, GeneSetEnrichment, HistoneModification, Regression

Depends R (>= 3.4.0)

Imports AnnotationDbi, BiocGenerics, methods, GenomicRanges, GenomeInfoDb, IRanges, readr, rtracklayer, S4Vectors, utils

License GPL-3

Encoding UTF-8

LazyData true

Suggests BiocStyle, devtools, knitr, rmarkdown, roxygen2, testthat,

GO.db, org.Dm.eg.db, org.Dr.eg.db, org.Hs.eg.db, org.Mm.eg.db,

org.Rn.eg.db, TxDb.Dmelanogaster.UCSC.dm3.ensGene,

TxDb.Dmelanogaster.UCSC.dm6.ensGene,

TxDb.Drerio.UCSC.danRer10.refGene,

TxDb.Hsapiens.UCSC.hg19.knownGene,

TxDb.Hsapiens.UCSC.hg38.knownGene,

TxDb.Mmusculus.UCSC.mm9.knownGene,

TxDb.Mmusculus.UCSC.mm10.knownGene, TxDb.Rnorvegicus.UCSC.rn4.ensGene,

TxDb.Rnorvegicus.UCSC.rn5.refGene,

TxDb.Rnorvegicus.UCSC.rn6.refGene

VignetteBuilder knitr

RoxygenNote 6.1.1

Maintainer Raymond G. Cavalcante <rcavalca@umich.edu>

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${\sf R}$ topics documented:

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Description

Supporting data for the chipenrich package. Includes pre-defined gene sets, gene locus definitions, and mappability estimates.

```
enhancer.dnase_thurman.0 {\it Enhancer locations}
```

Description

A GRanges with all the enhancer locations for hg19. The locations were found using a combination of DNAse data and from Thurman et al (PMID: 22955617)

Usage

enhancer.dnase_thurman.0

8 GeneSet-class

Format

A GRanges object with the following mcols:

gene_id The Entrez ID for the TSS
symbol The gene symbol for the TSS

gene.enh.desc

Gene-Enhancer descriptives

Description

A data frame with gene-level descriptions of enhancer properties using enhancers.dnase_thurman.0. Used in the adjustment of proximity test to enhancers.

gene_id The Entrez ID for the a gene

avg_denh_emp The empirical average distance to an enhancer from 90 ENCODE ChIP-seq datasets. This is used as the adjustment.

num_enh The number of enhancers assigned to the gene, defined by closest gene TSS

avgdenh The theoretical average distance to an enhancer assuming every base pair on the genome is equally likely to have a peak binding.

Usage

gene.enh.desc

Format

An object of class data. frame with 21600 rows and 4 columns.

GeneSet-class

Class "GeneSet"

Description

Class for storing sets of genes and their corresponding metadata.

Objects from the Class

Objects can be created by calls of the form new("GeneSet").

These objects are used internally by the chipenrich package and users will not likely need to create these.

Slots

set.gene: Object of class "environment". Maps from geneset IDs to lists of Entrez gene IDs. type: Object of class "character". The formal name for this collection of genesets. set.name: Object of class "environment". Maps from geneset IDs to their descriptions/names. all.genes: Object of class "character". A set of all genes present across every geneset. organism: Object of class "character". Organism code for gene IDs.

dburl: Object of class "character". Web URL for this collection of genesets.

Note

Not typically accessed by the user - this is used internally by the chipenrich package.

Author(s)

Ryan Welch <welchr@umich.edu>

Examples

```
# Show information about class.
showClass("GeneSet")

# What is stored inside a geneset object?
data("geneset.metabolite.hsa");
str(geneset.metabolite.hsa);

# How are the mappings from geneset IDs to gene IDs stored?
ls.str(geneset.metabolite.hsa@set.gene);
```

```
geneset.biocarta_pathway.hsa
```

geneset.biocarta_pathway.hsa genesets for BioCarta

Description

BioCarta (biocarta_pathway) genesets. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 18:46:04 2017.

Usage

```
geneset.biocarta_pathway.hsa
```

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

https://cgap.nci.nih.gov/Pathways/BioCarta_Pathways

```
{\it geneset.biocarta\_pathway.mmu} \\ {\it geneset.biocarta\_pathway.mmu}
```

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.biocarta_pathway.mmu)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

For information regarding how the genesets were created: browseVignettes("chipenrich.data")

```
{\it geneset.biocarta\_pathway.rno} \\ {\it geneset.biocarta\_pathway.rno}
```

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.biocarta_pathway.rno)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

geneset.ctd.hsa 11

geneset.ctd.hsa

geneset.ctd.hsa genesets for Comparative Toxicogenomics Database

Description

Comparative Toxicogenomics Database (ctd) genesets. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 18:46:11 2017.

Usage

geneset.ctd.hsa

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

http://ctdbase.org

geneset.ctd.mmu

geneset.ctd.mmu genesets for Comparative Toxicogenomics Database

Description

Comparative Toxicogenomics Database (ctd) genesets. All genesets are required to have >= 10 Entrez IDs. Built on Sat Nov 10 15:56:37 2018.

Usage

geneset.ctd.mmu

12 geneset.cytoband.hsa

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

http://ctdbase.org

geneset.cytoband.hsa geneset.cytoband.hsa

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.cytoband.hsa)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

geneset.drug_bank.hsa 13

geneset.drug_bank.hsa geneset.drug_bank.hsa genesets for DrugBank

Description

DrugBank (drug_bank) genesets. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 18:46:13 2017.

Usage

geneset.drug_bank.hsa

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

https://www.drugbank.ca

geneset.drug_bank.mmu geneset.drug_bank.mmu

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

data(geneset.drug_bank.mmu)

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

14 geneset.GOBP.dme

```
geneset.drug_bank.rno geneset.drug_bank.rno
```

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.drug_bank.rno)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

For information regarding how the genesets were created: browseVignettes("chipenrich.data")

geneset.GOBP.dme

geneset.GOBP.dme genesets for Drosophila melanogaster

Description

Gene Ontology Biological Process (GOBP) genesets for Drosophila melanogaster. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 16:24:38 2017.

Usage

```
geneset.GOBP.dme
```

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

```
org.Dm.eg.db_3.4.2 and GO.db_3.4.2
```

geneset.GOBP.dre 15

geneset.GOBP.dre

geneset.GOBP.dre genesets for Danio rerio

Description

Gene Ontology Biological Process (GOBP) genesets for Danio rerio. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 16:25:08 2017.

Usage

geneset.GOBP.dre

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

org.Dr.eg.db_3.4.2 and GO.db_3.4.2

geneset.GOBP.hsa

geneset.GOBP.hsa genesets for Homo sapiens

Description

Gene Ontology Biological Process (GOBP) genesets for Homo sapiens. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 16:22:22 2017.

Usage

geneset.GOBP.hsa

16 geneset.GOBP.mmu

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

```
org.Hs.eg.db_3.4.2 and GO.db_3.4.2
```

geneset.GOBP.mmu

geneset.GOBP.mmu genesets for Mus musculus

Description

Gene Ontology Biological Process (GOBP) genesets for Mus musculus. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 16:23:23 2017.

Usage

geneset.GOBP.mmu

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

org.Mm.eg.db 3.4.2 and GO.db 3.4.2

geneset.GOBP.rno 17

geneset.GOBP.rno

geneset.GOBP.rno genesets for Rattus norvegicus

Description

Gene Ontology Biological Process (GOBP) genesets for Rattus norvegicus. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 16:24:10 2017.

Usage

geneset.GOBP.rno

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

org.Rn.eg.db_3.4.2 and GO.db_3.4.2

 ${\tt geneset.GOCC.dme}$

geneset.GOCC.dme genesets for Drosophila melanogaster

Description

Gene Ontology Cellular Component (GOCC) genesets for Drosophila melanogaster. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 16:24:38 2017.

Usage

geneset.GOCC.dme

18 geneset.GOCC.dre

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

org.Dm.eg.db_3.4.2 and GO.db_3.4.2

geneset.GOCC.dre

geneset.GOCC.dre genesets for Danio rerio

Description

Gene Ontology Cellular Component (GOCC) genesets for Danio rerio. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 16:25:08 2017.

Usage

geneset.GOCC.dre

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

org.Dr.eg.db 3.4.2 and GO.db 3.4.2

geneset.GOCC.hsa 19

geneset.GOCC.hsa

geneset.GOCC.hsa genesets for Homo sapiens

Description

Gene Ontology Cellular Component (GOCC) genesets for Homo sapiens. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 16:22:22 2017.

Usage

geneset.GOCC.hsa

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

org.Hs.eg.db_3.4.2 and GO.db_3.4.2

geneset.GOCC.mmu

geneset.GOCC.mmu genesets for Mus musculus

Description

Gene Ontology Cellular Component (GOCC) genesets for Mus musculus. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 16:23:23 2017.

Usage

geneset.GOCC.mmu

20 geneset.GOCC.rno

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

org.Mm.eg.db_3.4.2 and GO.db_3.4.2

geneset.GOCC.rno

geneset.GOCC.rno genesets for Rattus norvegicus

Description

Gene Ontology Cellular Component (GOCC) genesets for Rattus norvegicus. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 16:24:10 2017.

Usage

geneset.GOCC.rno

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

```
org.Rn.eg.db 3.4.2 and GO.db 3.4.2
```

geneset.GOMF.dme 21

geneset.GOMF.dme

geneset.GOMF.dme genesets for Drosophila melanogaster

Description

Gene Ontology Molecular Function (GOMF) genesets for Drosophila melanogaster. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 16:24:38 2017.

Usage

geneset.GOMF.dme

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

org.Dm.eg.db_3.4.2 and GO.db_3.4.2

geneset.GOMF.dre

geneset.GOMF.dre genesets for Danio rerio

Description

Gene Ontology Molecular Function (GOMF) genesets for Danio rerio. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 16:25:08 2017.

Usage

geneset.GOMF.dre

22 geneset.GOMF.hsa

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

```
org.Dr.eg.db_3.4.2 and GO.db_3.4.2
```

geneset.GOMF.hsa

geneset.GOMF.hsa genesets for Homo sapiens

Description

Gene Ontology Molecular Function (GOMF) genesets for Homo sapiens. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 16:22:22 2017.

Usage

geneset.GOMF.hsa

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

```
org.Hs.eg.db 3.4.2 and GO.db 3.4.2
```

geneset.GOMF.mmu 23

geneset.GOMF.mmu

geneset.GOMF.mmu genesets for Mus musculus

Description

Gene Ontology Molecular Function (GOMF) genesets for Mus musculus. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 16:23:23 2017.

Usage

geneset.GOMF.mmu

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

org.Mm.eg.db_3.4.2 and GO.db_3.4.2

geneset.GOMF.rno

geneset.GOMF.rno genesets for Rattus norvegicus

Description

Gene Ontology Molecular Function (GOMF) genesets for Rattus norvegicus. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 16:24:10 2017.

Usage

geneset.GOMF.rno

24 geneset.hallmark.hsa

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

```
org.Rn.eg.db_3.4.2 and GO.db_3.4.2
```

geneset.hallmark.hsa geneset.hallmark.hsa genesets for Hallmark (MSigDB)

Description

Hallmark (MSigDB) (hallmark) genesets. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 18:46:15 2017.

Usage

geneset.hallmark.hsa

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

http://software.broadinstitute.org/gsea/msigdb/collections.jsp#H

geneset.immunologic.hsa

geneset.immunologic.hsa genesets for Immunologic Signatures (MSigDB)

Description

Immunologic Signatures (MSigDB) (immunologic) genesets. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 18:46:45 2017.

Usage

geneset.immunologic.hsa

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

http://software.broadinstitute.org/gsea/msigdb/collections.jsp#C7

```
geneset.kegg_pathway.hsa
```

geneset.kegg_pathway.hsa genesets for KEGG Pathways

Description

KEGG Pathways (kegg_pathway) genesets. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 18:46:53 2017.

Usage

geneset.kegg_pathway.hsa

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

http://kegg.jp

```
{\it geneset.kegg\_pathway.mmu} \\ {\it geneset.kegg\_pathway.mmu}
```

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.kegg_pathway.mmu)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.kegg_pathway.rno)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

For information regarding how the genesets were created: browseVignettes("chipenrich.data")

geneset.mesh.hsa

geneset.mesh.hsa

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.mesh.hsa)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

28 geneset.mesh.rno

geneset.mesh.mmu

geneset.mesh.mmu

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.mesh.mmu)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

For information regarding how the genesets were created: browseVignettes("chipenrich.data")

geneset.mesh.rno

geneset.mesh.rno

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.mesh.rno)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

geneset.metabolite.hsa 29

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.metabolite.hsa)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

For information regarding how the genesets were created: browseVignettes("chipenrich.data")

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.metabolite.mmu)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

30 geneset.microrna.hsa

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.metabolite.rno)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

For information regarding how the genesets were created: browseVignettes("chipenrich.data")

geneset.microrna.hsa genesets for MicroRNA Targets (MSigDB)

Description

MicroRNA Targets (MSigDB) (microrna) genesets. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 18:46:56 2017.

Usage

```
geneset.microrna.hsa
```

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

http://software.broad institute.org/gsea/msigdb/collections.jsp#C3

geneset.oncogenic.hsa 31

geneset.oncogenic.hsa geneset.oncogenic.hsa genesets for Oncogenic Signatures (MSigDB)

Description

Oncogenic Signatures (MSigDB) (oncogenic) genesets. All genesets are required to have >= 10 Entrez IDs, Built on Mon Oct 16 18:47:23 2017.

Usage

geneset.oncogenic.hsa

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

http://software.broadinstitute.org/gsea/msigdb/collections.jsp#C6

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.panther_pathway.hsa)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

```
geneset.panther\_pathway.mmu\\ geneset.panther\_pathway.mmu
```

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.panther_pathway.mmu)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

For information regarding how the genesets were created: browseVignettes("chipenrich.data")

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.panther_pathway.rno)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

geneset.pfam.hsa 33

geneset.pfam.hsa

geneset.pfam.hsa genesets for Pfam

Description

Pfam (pfam) genesets. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 18:47:28 2017.

Usage

geneset.pfam.hsa

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

http://pfam.xfam.org

geneset.pfam.mmu

geneset.pfam.mmu

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.pfam.mmu)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

geneset.pfam.rno

geneset.pfam.rno

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.pfam.rno)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

For information regarding how the genesets were created: browseVignettes("chippenrich.data")

geneset.protein_interaction_biogrid.hsa

geneset.protein_interaction_biogrid.hsa genesets for BioGRID Protein Interactions

Description

BioGRID Protein Interactions (protein_interaction_biogrid) genesets. All genesets are required to have >= 10 Entrez IDs. Built on Tue Oct 24 16:05:53 2017.

Usage

```
geneset.protein_interaction_biogrid.hsa
```

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

geneset.reactome.dme 35

Source

https://thebiogrid.org

geneset.reactome.dme genesets for Drosophila melanogaster

Description

Reactome genesets for Drosophila melanogaster. All genesets are required to have >= 10 Entrez IDs. Built on Mon Mar 20 15:14:03 2017.

Usage

geneset.reactome.dme

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. Reactome.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. R-HSA-109688), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

http://www.reactome.org/download/current/NCBI2Reactome_All_Levels.txt downloaded on 2017-03-19

geneset.reactome.dre genesets for Danio rerio

Description

Reactome genesets for Danio rerio. All genesets are required to have >= 10 Entrez IDs. Built on Tue Mar 28 13:03:21 2017.

Usage

geneset.reactome.dre

36 geneset.reactome.hsa

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. Reactome.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. R-HSA-109688), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

http://www.reactome.org/download/current/NCBI2Reactome_All_Levels.txt downloaded on 2017-03-19

geneset.reactome.hsa genesets for Homo sapiens

Description

Reactome genesets for Homo sapiens. All genesets are required to have \geq 10 Entrez IDs. Built on Mon Mar 20 15:13:45 2017.

Usage

geneset.reactome.hsa

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. Reactome.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. R-HSA-109688), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

http://www.reactome.org/download/current/NCBI2Reactome_All_Levels.txt downloaded on 2017-03-19

geneset.reactome.mmu 37

geneset.reactome.mmu genesets for Mus musculus

Description

Reactome genesets for Mus musculus. All genesets are required to have >= 10 Entrez IDs. Built on Mon Mar 20 15:13:55 2017.

Usage

geneset.reactome.mmu

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. Reactome.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. R-HSA-109688), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

http://www.reactome.org/download/current/NCBI2Reactome_All_Levels.txt downloaded on 2017-03-19

geneset.reactome.rno genesets for Rattus norvegicus

Description

Reactome genesets for Rattus norvegicus. All genesets are required to have >= 10 Entrez IDs. Built on Mon Mar 20 15:13:59 2017.

Usage

geneset.reactome.rno

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. Reactome.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. R-HSA-109688), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

http://www.reactome.org/download/current/NCBI2Reactome_All_Levels.txt downloaded on 2017-03-19

geneset.transcription_factors.hsa

geneset.transcription_factors.hsa genesets for Transcription Factor Targets (MSigDB)

Description

Transcription Factor Targets (MSigDB) (transcription_factors) genesets. All genesets are required to have >= 10 Entrez IDs. Built on Mon Oct 16 18:47:33 2017.

Usage

geneset.transcription_factors.hsa

Format

A GeneSet object with the following slots:

type A character indicating the type of genesets, e.g. GOBP.

dburl A character of the URL of the database underlying the genesets.

organism A character of the organism, e.g. Homo sapiens.

set.gene An environment containing a list whose keys are database specific accessions (e.g. GO IDs for GO terms), and whose elements are character vectors of Entrez Gene IDs.

all.genes A character vector of all the Entrez Gene IDs contained over all the genesets in this type.

set.name An environment containing a list whose keys are database specific accessions, and whose elements are human readable geneset names.

Source

http://software.broadinstitute.org/gsea/msigdb/collections.jsp#C3

```
{\it geneset.transcription\_factors.mmu} \\ {\it geneset.transcription\_factors.mmu}
```

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.transcription_factors.mmu)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

For information regarding how the genesets were created: browseVignettes("chipenrich.data")

```
geneset.transcription\_factors.rno \\ geneset.transcription\_factors.rno
```

Description

GeneSet object which stores information about sets of genes.

These objects are used internally by the chipenrich package.

Usage

```
data(geneset.transcription_factors.rno)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

For information regarding how the genesets were created: browseVignettes("chipenrich.data")

locusdef.danRer10.10kb

locusdef.danRer10.10kb locus definition

Description

A LocusDefinition where a gene locus is defined within 10kb upstream and downstream of the TSS.

Usage

locusdef.danRer10.10kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, danRer10.

organism A character indicating the organism name. In this case, Danio rerio.

Details

Built on Fri Apr 13 09:54:27 2018.

Source

R packages: TxDb.Drerio.UCSC.danRer10.refGene_3.4.2 and org.Dr.eg.db_3.5.0.

locusdef.danRer10.10kb_outside

locusdef.danRer10.10kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.danRer10.10kb_outside

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, danRer10.

organism A character indicating the organism name. In this case, Danio rerio.

Details

Built on Fri Apr 13 09:54:27 2018.

Source

R packages: TxDb.Drerio.UCSC.danRer10.refGene_3.4.2 and org.Dr.eg.db_3.5.0.

locusdef.danRer10.10kb_outside_upstream

locusdef.danRer10.10kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.danRer10.10kb_outside_upstream

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, danRer10.

organism A character indicating the organism name. In this case, Danio rerio.

Details

Built on Fri Apr 13 09:54:27 2018.

Source

R packages: TxDb.Drerio.UCSC.danRer10.refGene_3.4.2 and org.Dr.eg.db_3.5.0.

locusdef.danRer10.1kb locusdef.danRer10.1kb locus definition

Description

A LocusDefinition where a gene locus is defined within 1kb upstream and downstream of the TSS

Usage

locusdef.danRer10.1kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, danRer10.

organism A character indicating the organism name. In this case, Danio rerio.

Details

Built on Fri Apr 13 09:54:25 2018.

Source

R packages: TxDb.Drerio.UCSC.danRer10.refGene_3.4.2 and org.Dr.eg.db_3.5.0.

locusdef.danRer10.1kb_outside

locusdef.danRer10.1kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.danRer10.1kb_outside

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, danRer10.

organism A character indicating the organism name. In this case, Danio rerio.

Details

Built on Fri Apr 13 09:54:26 2018.

Source

R packages: TxDb.Drerio.UCSC.danRer10.refGene_3.4.2 and org.Dr.eg.db_3.5.0.

locusdef.danRer10.1kb_outside_upstream

locusdef.danRer10.1kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.danRer10.1kb_outside_upstream

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, danRer10.

organism A character indicating the organism name. In this case, Danio rerio.

Details

Built on Fri Apr 13 09:54:25 2018.

Source

R packages: TxDb.Drerio.UCSC.danRer10.refGene_3.4.2 and org.Dr.eg.db_3.5.0.

locusdef.danRer10.5kb locus definition

Description

A LocusDefinition where a gene locus is defined within 5kb upstream and downstream of the TSS

Usage

locusdef.danRer10.5kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, danRer10.

organism A character indicating the organism name. In this case, Danio rerio.

Details

Built on Fri Apr 13 09:54:26 2018.

Source

R packages: TxDb.Drerio.UCSC.danRer10.refGene_3.4.2 and org.Dr.eg.db_3.5.0.

locusdef.danRer10.5kb_outside

locusdef.danRer10.5kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.danRer10.5kb_outside

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, danRer10.

organism A character indicating the organism name. In this case, Danio rerio.

Details

Built on Fri Apr 13 09:54:27 2018.

Source

R packages: TxDb.Drerio.UCSC.danRer10.refGene_3.4.2 and org.Dr.eg.db_3.5.0.

locusdef.danRer10.5kb_outside_upstream

locusdef.danRer10.5kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.danRer10.5kb_outside_upstream

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, danRer10.

organism A character indicating the organism name. In this case, Danio rerio.

Details

Built on Fri Apr 13 09:54:26 2018.

Source

R packages: TxDb.Drerio.UCSC.danRer10.refGene_3.4.2 and org.Dr.eg.db_3.5.0.

46 locusdef.danRer10.intron

locusdef.danRer10.exon

locusdef.danRer10.exon locus definition

Description

A LocusDefinition where a gene locus is defined as the exons belonging to genes.

Usage

locusdef.danRer10.exon

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, danRer10.

organism A character indicating the organism name. In this case, Danio rerio.

Details

Built on Fri Apr 13 09:54:24 2018.

Source

R packages: TxDb.Drerio.UCSC.danRer10.refGene_3.4.2 and org.Dr.eg.db_3.5.0.

locusdef.danRer10.intron

locusdef.danRer10.intron locus definition

Description

A LocusDefinition where a gene locus is defined as the introns belonging to genes.

Usage

locusdef.danRer10.intron

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, danRer10.

organism A character indicating the organism name. In this case, Danio rerio.

Details

Built on Fri Apr 13 09:54:25 2018.

Source

R packages: TxDb.Drerio.UCSC.danRer10.refGene_3.4.2 and org.Dr.eg.db_3.5.0.

locusdef.danRer10.nearest_gene

locusdef.danRer10.nearest_gene locus definition

Description

A LocusDefinition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs and TESs.

Usage

locusdef.danRer10.nearest_gene

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, danRer10.

organism A character indicating the organism name. In this case, Danio rerio.

Details

Built on Fri Apr 13 09:54:23 2018.

Source

R packages: TxDb.Drerio.UCSC.danRer10.refGene_3.4.2 and org.Dr.eg.db_3.5.0.

48 locusdef.dm3.10kb

locusdef.danRer10.nearest_tss

locusdef.danRer10.nearest_tss locus definition

Description

A LocusDefinition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs.

Usage

locusdef.danRer10.nearest_tss

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, danRer10.

organism A character indicating the organism name. In this case, Danio rerio.

Details

Built on Fri Apr 13 09:54:22 2018.

Source

R packages: TxDb.Drerio.UCSC.danRer10.refGene_3.4.2 and org.Dr.eg.db_3.5.0.

locusdef.dm3.10kb

locusdef.dm3.10kb locus definition

Description

A LocusDefinition where a gene locus is defined within 10kb upstream and downstream of the TSS.

Usage

locusdef.dm3.10kb

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, dm3.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm3 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:05 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm3.ensGene_3.2.2 and org.Dm.eg.db_3.5.0.

locusdef.dm3.10kb_outside

locusdef.dm3.10kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.dm3.10kb_outside

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, dm3.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm3 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:06 2018.

Source

 $R\ packages:\ TxDb.Dmelanogaster.UCSC.dm3.ensGene_3.2.2\ and\ org.Dm.eg.db_3.5.0.$

locusdef.dm3.10kb_outside_upstream

locusdef.dm3.10kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.dm3.10kb_outside_upstream

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, dm3.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm3 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:05 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm3.ensGene_3.2.2 and org.Dm.eg.db_3.5.0.

locusdef.dm3.1kb 51

locusdef.dm3.1kb

locusdef.dm3.1kb locus definition

Description

A LocusDefinition where a gene locus is defined within 1kb upstream and downstream of the TSS.

Usage

locusdef.dm3.1kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, dm3.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm3 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:05 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm3.ensGene_3.2.2 and org.Dm.eg.db_3.5.0.

 $locusdef.dm3.1kb_outside$

locusdef.dm3.1kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.dm3.1kb_outside

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, dm3.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm3 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:05 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm3.ensGene_3.2.2 and org.Dm.eg.db_3.5.0.

locusdef.dm3.1kb_outside_upstream

locusdef.dm3.1kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

 $locus def.dm3.1kb_outside_upstream$

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, dm3.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm3 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:05 2018.

locusdef.dm3.5kb 53

Source

R packages: TxDb.Dmelanogaster.UCSC.dm3.ensGene_3.2.2 and org.Dm.eg.db_3.5.0.

locusdef.dm3.5kb

locusdef.dm3.5kb locus definition

Description

A LocusDefinition where a gene locus is defined within 5kb upstream and downstream of the TSS.

Usage

locusdef.dm3.5kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, dm3.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm3 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:05 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm3.ensGene_3.2.2 and org.Dm.eg.db_3.5.0.

locusdef.dm3.5kb_outside

locusdef.dm3.5kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.dm3.5kb_outside

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, dm3.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm3 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:05 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm3.ensGene_3.2.2 and org.Dm.eg.db_3.5.0.

locusdef.dm3.5kb_outside_upstream

locusdef.dm3.5kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.dm3.5kb_outside_upstream

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, dm3.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm3 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:05 2018.

locusdef.dm3.exon 55

Source

R packages: TxDb.Dmelanogaster.UCSC.dm3.ensGene_3.2.2 and org.Dm.eg.db_3.5.0.

locusdef.dm3.exon

locusdef.dm3.exon locus definition

Description

A LocusDefinition where a gene locus is defined as the exons belonging to genes.

Usage

locusdef.dm3.exon

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, dm3.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm3 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:04 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm3.ensGene_3.2.2 and org.Dm.eg.db_3.5.0.

locusdef.dm3.intron

locusdef.dm3.intron locus definition

Description

A LocusDefinition where a gene locus is defined as the introns belonging to genes.

Usage

locusdef.dm3.intron

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, dm3.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm3 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:04 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm3.ensGene_3.2.2 and org.Dm.eg.db_3.5.0.

locusdef.dm3.nearest_gene

locusdef.dm3.nearest_gene locus definition

Description

A LocusDefinition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs and TESs.

Usage

locusdef.dm3.nearest_gene

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, dm3.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm3 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:03 2018.

Source

 $R\ packages:\ TxDb.Dmelanogaster.UCSC.dm3.ensGene_3.2.2\ and\ org.Dm.eg.db_3.5.0.$

locusdef.dm3.nearest_tss

locusdef.dm3.nearest_tss locus definition

Description

A LocusDefinition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs.

Usage

locusdef.dm3.nearest_tss

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, dm3.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm3 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:03 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm3.ensGene_3.2.2 and org.Dm.eg.db_3.5.0.

locusdef.dm6.10kb

locusdef.dm6.10kb locus definition

Description

A LocusDefinition where a gene locus is defined within 10kb upstream and downstream of the TSS.

Usage

locusdef.dm6.10kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, dm6.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm6 genome, original gene IDs are from FLYBASE and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:35 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm6.ensGene_3.4.1 and org.Dm.eg.db_3.5.0.

 $locusdef.dm6.10kb_outside$

locusdef.dm6.10kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.dm6.10kb_outside

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, dm6.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm6 genome, original gene IDs are from FLYBASE and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:35 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm6.ensGene_3.4.1 and org.Dm.eg.db_3.5.0.

locusdef.dm6.10kb_outside_upstream

locusdef.dm6.10kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

 $locusdef.dm6.10kb_outside_upstream$

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, dm6.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm6 genome, original gene IDs are from FLYBASE and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:35 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm6.ensGene_3.4.1 and org.Dm.eg.db_3.5.0.

locusdef.dm6.1kb

locusdef.dm6.1kb locus definition

Description

A LocusDefinition where a gene locus is defined within 1kb upstream and downstream of the TSS.

Usage

locusdef.dm6.1kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, dm6.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm6 genome, original gene IDs are from FLYBASE and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:34 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm6.ensGene_3.4.1 and org.Dm.eg.db_3.5.0.

locusdef.dm6.1kb_outside

locusdef.dm6.1kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.dm6.1kb_outside

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, dm6.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm6 genome, original gene IDs are from FLYBASE and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:35 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm6.ensGene_3.4.1 and org.Dm.eg.db_3.5.0.

locusdef.dm6.1kb_outside_upstream

locusdef.dm6.1kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

 $locus def.dm6.1kb_outside_upstream$

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, dm6.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm6 genome, original gene IDs are from FLYBASE and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:34 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm6.ensGene_3.4.1 and org.Dm.eg.db_3.5.0.

locusdef.dm6.5kb

locusdef.dm6.5kb locus definition

Description

A LocusDefinition where a gene locus is defined within 5kb upstream and downstream of the TSS.

Usage

locusdef.dm6.5kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, dm6.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm6 genome, original gene IDs are from FLYBASE and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:35 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm6.ensGene_3.4.1 and org.Dm.eg.db_3.5.0.

locusdef.dm6.5kb_outside

locusdef.dm6.5kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.dm6.5kb_outside

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, dm6.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm6 genome, original gene IDs are from FLYBASE and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:35 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm6.ensGene_3.4.1 and org.Dm.eg.db_3.5.0.

locusdef.dm6.5kb_outside_upstream

locusdef.dm6.5kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

 ${\tt locusdef.dm6.5kb_outside_upstream}$

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, dm6.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm6 genome, original gene IDs are from FLYBASE and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:35 2018.

64 locusdef.dm6.intron

Source

R packages: TxDb.Dmelanogaster.UCSC.dm6.ensGene_3.4.1 and org.Dm.eg.db_3.5.0.

locusdef.dm6.exon

locusdef.dm6.exon locus definition

Description

A LocusDefinition where a gene locus is defined as the exons belonging to genes.

Usage

locusdef.dm6.exon

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, dm6.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm6 genome, original gene IDs are from FLYBASE and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:33 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm6.ensGene_3.4.1 and org.Dm.eg.db_3.5.0.

locusdef.dm6.intron

locusdef.dm6.intron locus definition

Description

A LocusDefinition where a gene locus is defined as the introns belonging to genes.

Usage

locusdef.dm6.intron

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, dm6.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm6 genome, original gene IDs are from FLYBASE and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:34 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm6.ensGene_3.4.1 and org.Dm.eg.db_3.5.0.

locusdef.dm6.nearest_gene

locusdef.dm6.nearest_gene locus definition

Description

A LocusDefinition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs and TESs.

Usage

locusdef.dm6.nearest_gene

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, dm6.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm6 genome, original gene IDs are from FLYBASE and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:33 2018.

Source

 $R\ packages:\ TxDb.Dmelanogaster.UCSC.dm6.ensGene_3.4.1\ and\ org.Dm.eg.db_3.5.0.$

locusdef.dm6.nearest_tss

locusdef.dm6.nearest_tss locus definition

Description

A LocusDefinition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs.

Usage

locusdef.dm6.nearest_tss

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, dm6.

organism A character indicating the organism name. In this case, Drosophila melanogaster.

Details

For the dm6 genome, original gene IDs are from FLYBASE and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:53:33 2018.

Source

R packages: TxDb.Dmelanogaster.UCSC.dm6.ensGene_3.4.1 and org.Dm.eg.db_3.5.0.

locusdef.hg19.10kb 67

locusdef.hg19.10kb

locusdef.hg19.10kb locus definition

Description

A LocusDefinition where a gene locus is defined within 10kb upstream and downstream of the TSS.

Usage

locusdef.hg19.10kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg19.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:45:58 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg19.knownGene_3.2.2 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.annota and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.Ent

locusdef.hg19.10kb_outside

locusdef.hg19.10kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.hg19.10kb_outside

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg19.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:45:59 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg19.knownGene_3.2.2 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.annota and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.Ent

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.hg19.10kb_outside_upstream

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg19.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:45:58 2018.

locusdef.hg19.1kb 69

Source

R packages: TxDb.Hsapiens.UCSC.hg19.knownGene_3.2.2 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.annota and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.Ent

locusdef.hg19.1kb

locusdef.hg19.1kb locus definition

Description

A LocusDefinition where a gene locus is defined within 1kb upstream and downstream of the TSS

Usage

locusdef.hg19.1kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg19.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:45:55 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg19.knownGene_3.2.2 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.annota and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.Ent

locusdef.hg19.1kb_outside

locusdef.hg19.1kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.hg19.1kb_outside

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg19.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:45:56 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg19.knownGene_3.2.2 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.annota and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.Ent

locusdef.hg19.1kb_outside_upstream

locusdef.hg19.1kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

 $locus def.hg 19.1kb_outside_upstream$

locusdef.hg19.5kb 71

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, hg19.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:45:56 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg19.knownGene_3.2.2 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.annota and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.Ent

locusdef.hg19.5kb

locusdef.hg19.5kb locus definition

Description

A LocusDefinition where a gene locus is defined within 5kb upstream and downstream of the TSS.

Usage

locusdef.hg19.5kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, hg19.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:45:57 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg19.knownGene_3.2.2 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.annota and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.Ent

locusdef.hg19.5kb_outside

locusdef.hg19.5kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.hg19.5kb_outside

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg19.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:45:58 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg19.knownGene_3.2.2 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.annota and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.Ent

locusdef.hg19.5kb_outside_upstream

locusdef.hg19.5kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.hg19.5kb_outside_upstream

locusdef.hg19.exon 73

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg19.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:45:57 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg19.knownGene_3.2.2 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.annota and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.Ent

locusdef.hg19.exon

locusdef.hg19.exon locus definition

Description

A LocusDefinition where a gene locus is defined as the exons belonging to genes.

Usage

locusdef.hg19.exon

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg19.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:45:53 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg19.knownGene_3.2.2 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.annota and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.Ent

locusdef.hg19.intron locusdef.hg19.intron locus definition

Description

A LocusDefinition where a gene locus is defined as the introns belonging to genes.

Usage

locusdef.hg19.intron

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg19.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:45:55 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg19.knownGene_3.2.2 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.annota and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.Ent

locusdef.hg19.nearest_gene

locusdef.hg19.nearest_gene locus definition

Description

A LocusDefinition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs and TESs.

Usage

locusdef.hg19.nearest_gene

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg19.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:45:51 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg19.knownGene_3.2.2 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.annota and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.Ent

locusdef.hg19.nearest_tss

locusdef.hg19.nearest_tss locus definition

Description

A LocusDefinition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs.

Usage

locusdef.hg19.nearest_tss

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg19.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:45:51 2018.

76 locusdef.hg38.10kb

Source

R packages: TxDb.Hsapiens.UCSC.hg19.knownGene_3.2.2 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.annota and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.Ent

locusdef.hg38.10kb

locusdef.hg38.10kb locus definition

Description

A LocusDefinition where a gene locus is defined within 10kb upstream and downstream of the TSS

Usage

locusdef.hg38.10kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg38.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:49:42 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg38.knownGene_3.4.0 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.metadata.EntrezGene.gz

locusdef.hg38.10kb_outside

locusdef.hg38.10kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.hg38.10kb_outside

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg38.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:49:43 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg38.knownGene_3.4.0 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.metadata.EntrezGene.gz

locusdef.hg38.10kb_outside_upstream

locusdef.hg38.10kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.hg38.10kb_outside_upstream

78 locusdef.hg38.1kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg38.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:49:43 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg38.knownGene_3.4.0 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.metadata.EntrezGene.gz

locusdef.hg38.1kb

locusdef.hg38.1kb locus definition

Description

A LocusDefinition where a gene locus is defined within 1kb upstream and downstream of the TSS.

Usage

locusdef.hg38.1kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg38.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:49:39 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg38.knownGene_3.4.0 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.metadata.EntrezGene.gz

locusdef.hg38.1kb_outside

locusdef.hg38.1kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.hg38.1kb_outside

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg38.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:49:40 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg38.knownGene_3.4.0 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.metadata.EntrezGene.gz

locusdef.hg38.1kb_outside_upstream

locusdef.hg38.1kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.hg38.1kb_outside_upstream

80 locusdef.hg38.5kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg38.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:49:39 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg38.knownGene_3.4.0 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.metadata.EntrezGene.gz

locusdef.hg38.5kb

locusdef.hg38.5kb locus definition

Description

A LocusDefinition where a gene locus is defined within 5kb upstream and downstream of the TSS.

Usage

locusdef.hg38.5kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg38.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:49:41 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg38.knownGene_3.4.0 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.metadata.EntrezGene.gz

locusdef.hg38.5kb_outside

locusdef.hg38.5kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.hg38.5kb_outside

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg38.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:49:42 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg38.knownGene_3.4.0 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.metadata.EntrezGene.gz

locusdef.hg38.5kb_outside_upstream

locusdef.hg38.5kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.hg38.5kb_outside_upstream

82 locusdef.hg38.exon

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg38.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:49:41 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg38.knownGene_3.4.0 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.metadata.EntrezGene.gz

locusdef.hg38.exon

locusdef.hg38.exon locus definition

Description

A LocusDefinition where a gene locus is defined as the exons belonging to genes.

Usage

locusdef.hg38.exon

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg38.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:49:37 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg38.knownGene_3.4.0 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.metadata.EntrezGene.gz

locusdef.hg38.intron 83

locusdef.hg38.intron locusdef.hg38.intron locus definition

Description

A LocusDefinition where a gene locus is defined as the introns belonging to genes.

Usage

locusdef.hg38.intron

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, hg38.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:49:38 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg38.knownGene_3.4.0 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.metadata.EntrezGene.gz

locusdef.hg38.nearest_gene

locusdef.hg38.nearest_gene locus definition

Description

A LocusDefinition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs and TESs.

Usage

locusdef.hg38.nearest_gene

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg38.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:49:34 2018.

Source

R packages: TxDb.Hsapiens.UCSC.hg38.knownGene_3.4.0 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.metadata.EntrezGene.gz

locusdef.hg38.nearest_tss

locusdef.hg38.nearest_tss locus definition

Description

A LocusDefinition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs.

Usage

locusdef.hg38.nearest_tss

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, hg38.

organism A character indicating the organism name. In this case, Homo sapiens.

Details

Built on Fri Apr 13 09:49:34 2018.

locusdef.mm10.10kb 85

Source

R packages: TxDb.Hsapiens.UCSC.hg38.knownGene_3.4.0 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.metadata.EntrezGene.gz

locusdef.mm10.10kb

locusdef.mm10.10kb locus definition

Description

A LocusDefinition where a gene locus is defined within 10kb upstream and downstream of the TSS

Usage

locusdef.mm10.10kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, mm10.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:51:40 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm10.knownGene_3.4.0 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.metadata.EntrezGene.gz

locusdef.mm10.10kb_outside

locusdef.mm10.10kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.mm10.10kb_outside

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, mm10.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:51:41 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm10.knownGene_3.4.0 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.metadata.EntrezGene.gz

locusdef.mm10.10kb_outside_upstream

locusdef.mm10.10kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.mm10.10kb_outside_upstream

locusdef.mm10.1kb 87

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, mm10.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:51:40 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm10.knownGene_3.4.0 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.metadata.EntrezGene.gz

locusdef.mm10.1kb

locusdef.mm10.1kb locus definition

Description

A LocusDefinition where a gene locus is defined within 1kb upstream and downstream of the TSS.

Usage

locusdef.mm10.1kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, mm10.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:51:37 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm10.knownGene_3.4.0 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.metadata.EntrezGene.gz

locusdef.mm10.1kb_outside

locusdef.mm10.1kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.mm10.1kb_outside

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, mm10.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:51:38 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm10.knownGene_3.4.0 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.metadata.EntrezGene.gz

locusdef.mm10.1kb_outside_upstream

locusdef.mm10.1kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.mm10.1kb_outside_upstream

locusdef.mm10.5kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, mm10.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:51:37 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm10.knownGene_3.4.0 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.metadata.EntrezGene.gz

locusdef.mm10.5kb

locusdef.mm10.5kb locus definition

Description

A LocusDefinition where a gene locus is defined within 5kb upstream and downstream of the TSS.

Usage

locusdef.mm10.5kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, mm10.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:51:38 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm10.knownGene_3.4.0 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.metadata.EntrezGene.gz

locusdef.mm10.5kb_outside

locusdef.mm10.5kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.mm10.5kb_outside

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, mm10.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:51:39 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm10.knownGene_3.4.0 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.metadata.EntrezGene.gz

locusdef.mm10.5kb_outside_upstream

locusdef.mm10.5kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.mm10.5kb_outside_upstream

locusdef.mm10.exon 91

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, mm10.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:51:39 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm10.knownGene_3.4.0 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.metadata.EntrezGene.gz

locusdef.mm10.exon

locusdef.mm10.exon locus definition

Description

A LocusDefinition where a gene locus is defined as the exons belonging to genes.

Usage

locusdef.mm10.exon

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, mm10.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:51:35 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm10.knownGene_3.4.0 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.metadata.EntrezGene.gz

locusdef.mm10.intron locusdef.mm10.intron locus definition

Description

A LocusDefinition where a gene locus is defined as the introns belonging to genes.

Usage

locusdef.mm10.intron

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, mm10.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:51:36 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm10.knownGene_3.4.0 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.metadata.EntrezGene.gz

locusdef.mm10.nearest_gene

locusdef.mm10.nearest_gene locus definition

Description

A LocusDefinition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs and TESs.

Usage

locusdef.mm10.nearest_gene

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, mm10.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:51:33 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm10.knownGene_3.4.0 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.metadata.EntrezGene.gz

locusdef.mm10.nearest_tss

locusdef.mm10.nearest_tss locus definition

Description

A LocusDefinition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs.

Usage

locusdef.mm10.nearest_tss

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, mm10.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:51:33 2018.

94 locusdef.mm9.10kb

Source

R packages: TxDb.Mmusculus.UCSC.mm10.knownGene_3.4.0 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.metadata.EntrezGene.gz

locusdef.mm9.10kb

locusdef.mm9.10kb locus definition

Description

A LocusDefinition where a gene locus is defined within 10kb upstream and downstream of the TSS

Usage

locusdef.mm9.10kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, mm9.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:50:44 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm9.knownGene_3.2.2 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.metadata.EntrezGene.gz

locusdef.mm9.10kb_outside

locusdef.mm9.10kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.mm9.10kb_outside

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, mm9.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:50:44 2018.

Source

 $R\ packages:\ TxDb.Mmusculus.UCSC.mm9.knownGene_3.2.2\ and\ org.Mm.eg.db_3.5.0.\ GEN-CODE\ resources:\ ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.annotation.gff3.gz\ and\ ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.metadata.EntrezGene.gz$

locusdef.mm9.10kb_outside_upstream

 $locus def.mm 9.10 kb_out side_up stream\ locus\ definition$

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.mm9.10kb_outside_upstream

96 locusdef.mm9.1kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, mm9.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:50:44 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm9.knownGene_3.2.2 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.metadata.EntrezGene.gz

locusdef.mm9.1kb

locusdef.mm9.1kb locus definition

Description

A LocusDefinition where a gene locus is defined within 1kb upstream and downstream of the TSS.

Usage

locusdef.mm9.1kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, mm9.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:50:41 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm9.knownGene_3.2.2 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.metadata.EntrezGene.gz

locusdef.mm9.1kb_outside

locusdef.mm9.1kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.mm9.1kb_outside

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, mm9.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:50:42 2018.

Source

 $R\ packages:\ TxDb.Mmusculus.UCSC.mm9.knownGene_3.2.2\ and\ org.Mm.eg.db_3.5.0.\ GEN-CODE\ resources:\ ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.annotation.gff3.gz\ and\ ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.metadata.EntrezGene.gz$

locusdef.mm9.1kb_outside_upstream

locusdef.mm9.1kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.mm9.1kb_outside_upstream

98 locusdef.mm9.5kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, mm9.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:50:41 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm9.knownGene_3.2.2 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.metadata.EntrezGene.gz

locusdef.mm9.5kb

locusdef.mm9.5kb locus definition

Description

A LocusDefinition where a gene locus is defined within 5kb upstream and downstream of the TSS.

Usage

locusdef.mm9.5kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, mm9.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:50:42 2018.

Source

 $R\ packages:\ TxDb.Mmusculus.UCSC.mm9.knownGene_3.2.2\ and\ org.Mm.eg.db_3.5.0.\ GEN-CODE\ resources:\ ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.annotation.gff3.gz\ and\ ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.metadata.EntrezGene.gz$

locusdef.mm9.5kb_outside

locusdef.mm9.5kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.mm9.5kb_outside

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, mm9.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:50:43 2018.

Source

 $R\ packages:\ TxDb.Mmusculus.UCSC.mm9.knownGene_3.2.2\ and\ org.Mm.eg.db_3.5.0.\ GEN-CODE\ resources:\ ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.annotation.gff3.gz\ and\ ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.metadata.EntrezGene.gz$

locusdef.mm9.5kb_outside_upstream

locusdef.mm9.5kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.mm9.5kb_outside_upstream

100 locusdef.mm9.exon

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, mm9.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:50:43 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm9.knownGene_3.2.2 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.metadata.EntrezGene.gz

locusdef.mm9.exon

locusdef.mm9.exon locus definition

Description

A LocusDefinition where a gene locus is defined as the exons belonging to genes.

Usage

locusdef.mm9.exon

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, mm9.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:50:39 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm9.knownGene_3.2.2 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.metadata.EntrezGene.gz

locusdef.mm9.intron 101

locusdef.mm9.intron locusdef.mm9.intron locus definition

Description

A LocusDefinition where a gene locus is defined as the introns belonging to genes.

Usage

locusdef.mm9.intron

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, mm9.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:50:41 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm9.knownGene_3.2.2 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.metadata.EntrezGene.gz

locusdef.mm9.nearest_gene

locusdef.mm9.nearest_gene locus definition

Description

A LocusDefinition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs and TESs.

Usage

locusdef.mm9.nearest_gene

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, mm9.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:50:37 2018.

Source

R packages: TxDb.Mmusculus.UCSC.mm9.knownGene_3.2.2 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.metadata.EntrezGene.gz

locusdef.mm9.nearest_tss

locusdef.mm9.nearest_tss locus definition

Description

A LocusDefinition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs.

Usage

locusdef.mm9.nearest_tss

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, mm9.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:50:37 2018.

locusdef.rn4.10kb

Source

 $R\ packages:\ TxDb.Mmusculus.UCSC.mm9.knownGene_3.2.2\ and\ org.Mm.eg.db_3.5.0.\ GEN-CODE\ resources:\ ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.annotation.gff3.gz\ and\ ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.metadata.EntrezGene.gz$

locusdef.rn4.10kb

locusdef.rn4.10kb locus definition

Description

A LocusDefinition where a gene locus is defined within 10kb upstream and downstream of the TSS.

Usage

locusdef.rn4.10kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, rn4.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

For the rn4 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:52:02 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn4.ensGene_3.2.2 and org.Rn.eg.db_3.5.0.

locusdef.rn4.10kb_outside

locusdef.rn4.10kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.rn4.10kb_outside

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn4.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

For the rn4 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:52:03 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn4.ensGene_3.2.2 and org.Rn.eg.db_3.5.0.

locusdef.rn4.10kb_outside_upstream

 $locus def.rn 4.10 kb_out side_up stream\ locus\ definition$

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.rn4.10kb_outside_upstream

locusdef.rn4.1kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn4.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

For the rn4 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:52:02 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn4.ensGene_3.2.2 and org.Rn.eg.db_3.5.0.

locusdef.rn4.1kb

locusdef.rn4.1kb locus definition

Description

A LocusDefinition where a gene locus is defined within 1kb upstream and downstream of the TSS.

Usage

locusdef.rn4.1kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, rn4.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

For the rn4 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:52:01 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn4.ensGene 3.2.2 and org.Rn.eg.db 3.5.0.

locusdef.rn4.1kb_outside

locusdef.rn4.1kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.rn4.1kb_outside

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn4.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

For the rn4 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:52:01 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn4.ensGene_3.2.2 and org.Rn.eg.db_3.5.0.

locusdef.rn4.1kb_outside_upstream

locusdef.rn4.1kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.rn4.1kb_outside_upstream

locusdef.rn4.5kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn4.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

For the rn4 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:52:01 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn4.ensGene_3.2.2 and org.Rn.eg.db_3.5.0.

locusdef.rn4.5kb

locusdef.rn4.5kb locus definition

Description

A LocusDefinition where a gene locus is defined within 5kb upstream and downstream of the TSS.

Usage

locusdef.rn4.5kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, rn4.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

For the rn4 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:52:01 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn4.ensGene 3.2.2 and org.Rn.eg.db 3.5.0.

locusdef.rn4.5kb_outside

locusdef.rn4.5kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.rn4.5kb_outside

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn4.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

For the rn4 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:52:02 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn4.ensGene_3.2.2 and org.Rn.eg.db_3.5.0.

locusdef.rn4.5kb_outside_upstream

 $locus def.rn 4.5 kb_out side_up stream\ locus\ definition$

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.rn4.5kb_outside_upstream

locusdef.rn4.exon 109

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn4.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

For the rn4 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:52:02 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn4.ensGene_3.2.2 and org.Rn.eg.db_3.5.0.

locusdef.rn4.exon

locusdef.rn4.exon locus definition

Description

A LocusDefinition where a gene locus is defined as the exons belonging to genes.

Usage

locusdef.rn4.exon

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, rn4.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

For the rn4 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:51:59 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn4.ensGene_3.2.2 and org.Rn.eg.db_3.5.0.

locusdef.rn4.intron locusdef.rn4.intron locus definition

Description

A LocusDefinition where a gene locus is defined as the introns belonging to genes.

Usage

locusdef.rn4.intron

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, rn4.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

For the rn4 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:52:00 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn4.ensGene_3.2.2 and org.Rn.eg.db_3.5.0.

locusdef.rn4.nearest_gene

locusdef.rn4.nearest_gene locus definition

Description

A LocusDefinition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs and TESs.

Usage

locusdef.rn4.nearest_gene

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn4.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

For the rn4 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:51:58 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn4.ensGene_3.2.2 and org.Rn.eg.db_3.5.0.

locusdef.rn4.nearest_tss

locusdef.rn4.nearest_tss locus definition

Description

A LocusDefinition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs.

Usage

 $locusdef.rn4.nearest_tss$

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn4.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

For the rn4 genome, original gene IDs are from ENSEMBL and so an additional step of converting to Entrez IDs is done.

Built on Fri Apr 13 09:51:58 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn4.ensGene_3.2.2 and org.Rn.eg.db_3.5.0.

locusdef.rn5.10kb

locusdef.rn5.10kb locus definition

Description

A LocusDefinition where a gene locus is defined within 10kb upstream and downstream of the TSS.

Usage

locusdef.rn5.10kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn5.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:20 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn5.refGene_3.4.2 and org.Rn.eg.db_3.5.0.

locusdef.rn5.10kb_outside

locusdef.rn5.10kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.rn5.10kb_outside

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn5.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:21 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn5.refGene_3.4.2 and org.Rn.eg.db_3.5.0.

locusdef.rn5.10kb_outside_upstream

locusdef.rn5.10kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.rn5.10kb_outside_upstream

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn5.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:21 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn5.refGene_3.4.2 and org.Rn.eg.db_3.5.0.

locusdef.rn5.1kb

locusdef.rn5.1kb locus definition

Description

A LocusDefinition where a gene locus is defined within 1kb upstream and downstream of the TSS

Usage

locusdef.rn5.1kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, rn5.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:19 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn5.refGene_3.4.2 and org.Rn.eg.db_3.5.0.

locusdef.rn5.1kb_outside

locusdef.rn5.1kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.rn5.1kb_outside

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn5.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:19 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn5.refGene_3.4.2 and org.Rn.eg.db_3.5.0.

locusdef.rn5.1kb_outside_upstream

locusdef.rn5.1kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.rn5.1kb_outside_upstream

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, rn5.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:19 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn5.refGene_3.4.2 and org.Rn.eg.db_3.5.0.

locusdef.rn5.5kb

locusdef.rn5.5kb locus definition

Description

A LocusDefinition where a gene locus is defined within 5kb upstream and downstream of the ${\tt TSS}$

Usage

locusdef.rn5.5kb

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, rn5.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:20 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn5.refGene_3.4.2 and org.Rn.eg.db_3.5.0.

locusdef.rn5.5kb_outside

locusdef.rn5.5kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.rn5.5kb_outside

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn5.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:20 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn5.refGene_3.4.2 and org.Rn.eg.db_3.5.0.

locusdef.rn5.5kb_outside_upstream

locusdef.rn5.5kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

 ${\tt locusdef.rn5.5kb_outside_upstream}$

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, rn5.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:20 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn5.refGene_3.4.2 and org.Rn.eg.db_3.5.0.

118 locusdef.rn5.intron

locusdef.rn5.exon

locusdef.rn5.exon locus definition

Description

A LocusDefinition where a gene locus is defined as the exons belonging to genes.

Usage

locusdef.rn5.exon

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn5.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:17 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn5.refGene_3.4.2 and org.Rn.eg.db_3.5.0.

 ${\tt locusdef.rn5.intron}$

locusdef.rn5.intron locus definition

Description

A LocusDefinition where a gene locus is defined as the introns belonging to genes.

Usage

locusdef.rn5.intron

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn5.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:19 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn5.refGene_3.4.2 and org.Rn.eg.db_3.5.0.

locusdef.rn5.nearest_gene

locusdef.rn5.nearest_gene locus definition

Description

A Locus Definition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs and TESs.

Usage

locusdef.rn5.nearest_gene

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, rn5.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:16 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn5.refGene_3.4.2 and org.Rn.eg.db_3.5.0.

120 locusdef.rn6.10kb

locusdef.rn5.nearest_tss

locusdef.rn5.nearest_tss locus definition

Description

A LocusDefinition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs.

Usage

locusdef.rn5.nearest_tss

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn5.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:16 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn5.refGene_3.4.2 and org.Rn.eg.db_3.5.0.

locusdef.rn6.10kb

locusdef.rn6.10kb locus definition

Description

A LocusDefinition where a gene locus is defined within 10kb upstream and downstream of the TSS.

Usage

locusdef.rn6.10kb

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn6.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:39 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn6.refGene_3.4.1 and org.Rn.eg.db_3.5.0.

locusdef.rn6.10kb_outside

locusdef.rn6.10kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.rn6.10kb_outside

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

 $\begin{tabular}{ll} \textbf{genome.build} & A & character & indicating & the genome & build. In this case, rn6. \end{tabular}$

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:40 2018.

Source

 $R\ packages:\ TxDb. Rnorvegicus. UCSC.rn6. refGene_3.4.1\ and\ org. Rn. eg. db_3.5.0.$

122 locusdef.rn6.1kb

locusdef.rn6.10kb_outside_upstream

locusdef.rn6.10kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 10kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.rn6.10kb_outside_upstream

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, rn6.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:39 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn6.refGene_3.4.1 and org.Rn.eg.db_3.5.0.

locusdef.rn6.1kb

locusdef.rn6.1kb locus definition

Description

A LocusDefinition where a gene locus is defined within 1kb upstream and downstream of the TSS.

Usage

locusdef.rn6.1kb

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn6.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:38 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn6.refGene_3.4.1 and org.Rn.eg.db_3.5.0.

locusdef.rn6.1kb_outside

locusdef.rn6.1kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.rn6.1kb_outside

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

 $\begin{tabular}{ll} \textbf{genome.build} & A & character & indicating & the genome & build. In this case, rn6. \end{tabular}$

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:38 2018.

Source

 $R\ packages:\ TxDb. Rnorvegicus. UCSC.rn6. refGene_3.4.1\ and\ org. Rn. eg. db_3.5.0.$

124 locusdef.rn6.5kb

locusdef.rn6.1kb_outside_upstream

locusdef.rn6.1kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 1kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.rn6.1kb_outside_upstream

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, rn6.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:38 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn6.refGene_3.4.1 and org.Rn.eg.db_3.5.0.

locusdef.rn6.5kb

locusdef.rn6.5kb locus definition

Description

A LocusDefinition where a gene locus is defined within 5kb upstream and downstream of the TSS.

Usage

locusdef.rn6.5kb

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn6.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:38 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn6.refGene_3.4.1 and org.Rn.eg.db_3.5.0.

locusdef.rn6.5kb_outside

locusdef.rn6.5kb_outside locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream and downstream of the TSS and bounded by the midpoints between the TSS and the next upstream and downstream TSSs.

Usage

locusdef.rn6.5kb_outside

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

 $\begin{tabular}{ll} \textbf{genome.build} & A & character & indicating & the genome & build. In this case, rn6. \end{tabular}$

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:39 2018.

Source

 $R\ packages:\ TxDb. Rnorvegicus. UCSC.rn6. refGene_3.4.1\ and\ org. Rn. eg. db_3.5.0.$

126 locusdef.rn6.exon

locusdef.rn6.5kb_outside_upstream

locusdef.rn6.5kb_outside_upstream locus definition

Description

A LocusDefinition where a gene locus is defined as the region beyond 5kb upstream of the TSS and bounded by the midpoint between the TSS and the next upstream TSS.

Usage

locusdef.rn6.5kb_outside_upstream

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn6.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:39 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn6.refGene_3.4.1 and org.Rn.eg.db_3.5.0.

locusdef.rn6.exon

locusdef.rn6.exon locus definition

Description

A LocusDefinition where a gene locus is defined as the exons belonging to genes.

Usage

locusdef.rn6.exon

locusdef.rn6.intron 127

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, rn6.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:36 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn6.refGene_3.4.1 and org.Rn.eg.db_3.5.0.

locusdef.rn6.intron

locusdef.rn6.intron locus definition

Description

A LocusDefinition where a gene locus is defined as the introns belonging to genes.

Usage

locusdef.rn6.intron

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, rn6.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:37 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn6.refGene_3.4.1 and org.Rn.eg.db_3.5.0.

locusdef.rn6.nearest_gene

locusdef.rn6.nearest_gene locus definition

Description

A LocusDefinition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs and TESs.

Usage

locusdef.rn6.nearest_gene

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and
 symbol

genome.build A character indicating the genome build. In this case, rn6.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:35 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn6.refGene_3.4.1 and org.Rn.eg.db_3.5.0.

locusdef.rn6.nearest_tss

locusdef.rn6.nearest_tss locus definition

Description

A Locus Definition where a gene locus is defined as the region spanning the midpoints between adjacent TSSs.

Usage

locusdef.rn6.nearest_tss

LocusDefinition-class 129

Format

A LocusDefinition object with the following slots:

granges A GRanges of the locus definitions with mcols for Entrez Gene ID gene_id and gene
 symbol symbol

dframe A data.frame of the locus definitions with columns for chr, start, end, gene_id, and symbol

genome.build A character indicating the genome build. In this case, rn6.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:34 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn6.refGene_3.4.1 and org.Rn.eg.db_3.5.0.

LocusDefinition-class Class "LocusDefinition"

Description

A storage class representing gene locus definitions and their corresponding metadata.

Objects from the Class

Objects can be created by calls of the form new("LocusDefinition"). These objects are used internally by the chipenrich package and users will not likely need to create these.

Slots

dframe: Object of class "data.frame". Each row represents a locus for a particular geneid.

granges: Object of class "GenomicRanges". Locus definitions stored as a GenomicRanges object.

genome.build: Object of class "character". Genome build these definitions were generated from.

organism: Object of class "character". Organism code.

Note

Not typically accessed by the user - this is used internally by the chipenrich package.

Author(s)

Ryan Welch <welchr@umich.edu>

Examples

```
# Show info about the class.
showClass("LocusDefinition");

# Example of what a locus definition object looks like.
data(locusdef.mm9.nearest_tss)
lapply(attributes(locusdef.mm9.nearest_tss), head)
```

```
mappa.hg19.10kb.100mer
```

mappa.hg19.10kb.100mer

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 10kbK-Mer Reads: 100mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.10kb.100mer)
```

Format

A data frame containing:

geneid Entrez Gene IDs
mappa Gene locus mappability

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

```
mappa.hg19.10kb.24mer mappa.hg19.10kb.24mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 10kbK-Mer Reads: 24mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.10kb.24mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.hg19.10kb.36mer mappa.hg19.10kb.36mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 10kbK-Mer Reads: 36mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.10kb.36mer)
```

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.hg19.10kb.40mer mappa.hg19.10kb.40mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 10kbK-Mer Reads: 40mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.10kb.40mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

```
mappa.hg19.10kb.50mer mappa.hg19.10kb.50mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 10kbK-Mer Reads: 50mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.10kb.50mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.hg19.10kb.75mer mappa.hg19.10kb.75mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 10kbK-Mer Reads: 75mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.10kb.75mer)
```

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.hg19.1kb.100mer mappa.hg19.1kb.100mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 1kbK-Mer Reads: 100mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.1kb.100mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

135

```
mappa.hg19.1kb.24mer mappa.hg19.1kb.24mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 1kbK-Mer Reads: 24mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.1kb.24mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.hg19.1kb.36mer mappa.hg19.1kb.36mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 1kbK-Mer Reads: 36mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.1kb.36mer)
```

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.hg19.1kb.40mer mappa.hg19.1kb.40mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 1kbK-Mer Reads: 40mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.1kb.40mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

mappa.hg19.1kb.50mer

```
mappa.hg19.1kb.50mer mappa.hg19.1kb.50mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 1kbK-Mer Reads: 50mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.1kb.50mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.hg19.1kb.75mer mappa.hg19.1kb.75mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 1kbK-Mer Reads: 75mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.1kb.75mer)
```

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.hg19.5kb.100mer mappa.hg19.5kb.100mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 5kbK-Mer Reads: 100mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.5kb.100mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

```
mappa.hg19.5kb.24mer mappa.hg19.5kb.24mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 5kbK-Mer Reads: 24mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.5kb.24mer)
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Format

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A data frame containing:
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mappa Gene locus mappability
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Author(s)

Ryan Welch <welchr@umich.edu>

See Also

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Gene locus mappability data, calculated for:

• Build: hg19

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Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.hg19.5kb.40mer mappa.hg19.5kb.40mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 5kbK-Mer Reads: 40mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.5kb.40mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

```
mappa.hg19.5kb.50mer mappa.hg19.5kb.50mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 5kbK-Mer Reads: 50mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.5kb.50mer)
```

Format

```
A data frame containing:
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mappa Gene locus mappability
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Author(s)

Ryan Welch <welchr@umich.edu>

See Also

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mappa.hg19.5kb.75mer mappa.hg19.5kb.75mer
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Description

Gene locus mappability data, calculated for:

• Build: hg19

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These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.5kb.75mer)
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A data frame containing:
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Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.hg19.exon.100mer mappa.hg19.exon.100mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: exonK-Mer Reads: 100mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.exon.100mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

```
mappa.hg19.exon.24mer mappa.hg19.exon.24mer
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Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: exonK-Mer Reads: 24mer

These objects are used internally by the chipenrich package.

Usage

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data(mappa.hg19.exon.24mer)
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Format

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A data frame containing:
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Author(s)

Ryan Welch <welchr@umich.edu>

See Also

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mappa.hg19.exon.36mer mappa.hg19.exon.36mer
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Gene locus mappability data, calculated for:

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Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.hg19.exon.40mer mappa.hg19.exon.40mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: exonK-Mer Reads: 40mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.exon.40mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

```
mappa.hg19.exon.50mer mappa.hg19.exon.50mer
```

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: exonK-Mer Reads: 50mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.exon.50mer)
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Format

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A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
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Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.hg19.exon.75mer mappa.hg19.exon.75mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: exonK-Mer Reads: 75mer

These objects are used internally by the chipenrich package.

```
data(mappa.hg19.exon.75mer)
```

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.hg19.intron.100mer mappa.hg19.intron.100mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: intronK-Mer Reads: 100mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.intron.100mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

```
mappa.hg19.intron.24mer
```

mappa.hg 19. in tron. 24 mer

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: intronK-Mer Reads: 24mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.intron.24mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.hg19.intron.36mer
```

mappa.hg19.intron.36mer

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: intronK-Mer Reads: 36mer

These objects are used internally by the chipenrich package.

```
data(mappa.hg19.intron.36mer)
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A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.hg19.intron.40mer mappa.hg19.intron.40mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: intronK-Mer Reads: 40mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.intron.40mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

```
mappa.hg19.intron.50mer
```

mappa.hg 19. in tron. 50 mer

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: intronK-Mer Reads: 50mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.intron.50mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: intronK-Mer Reads: 75mer

These objects are used internally by the chipenrich package.

```
data(mappa.hg19.intron.75mer)
```

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

Description

Gene locus mappability data, calculated for:

• Build: hg19

• Locus definition: nearest_gene

• K-Mer Reads: 100mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.nearest_gene.100mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

Gene locus mappability data, calculated for:

• Build: hg19

• Locus definition: nearest_gene

• K-Mer Reads: 24mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.nearest_gene.24mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

Description

Gene locus mappability data, calculated for:

• Build: hg19

• Locus definition: nearest_gene

• K-Mer Reads: 36mer

These objects are used internally by the chipenrich package.

```
data(mappa.hg19.nearest_gene.36mer)
```

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

Description

Gene locus mappability data, calculated for:

• Build: hg19

• Locus definition: nearest_gene

• K-Mer Reads: 40mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.nearest_gene.40mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

Gene locus mappability data, calculated for:

• Build: hg19

• Locus definition: nearest_gene

• K-Mer Reads: 50mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.nearest_gene.50mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

Description

Gene locus mappability data, calculated for:

• Build: hg19

• Locus definition: nearest_gene

• K-Mer Reads: 75mer

These objects are used internally by the chipenrich package.

```
data(mappa.hg19.nearest_gene.75mer)
```

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

Description

Gene locus mappability data, calculated for:

• Build: hg19

• Locus definition: nearest_tss

• K-Mer Reads: 100mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.nearest_tss.100mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

Gene locus mappability data, calculated for:

• Build: hg19

• Locus definition: nearest_tss

• K-Mer Reads: 24mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.nearest_tss.24mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

Description

Gene locus mappability data, calculated for:

• Build: hg19

• Locus definition: nearest_tss

• K-Mer Reads: 36mer

These objects are used internally by the chipenrich package.

```
data(mappa.hg19.nearest_tss.36mer)
```

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

Description

Gene locus mappability data, calculated for:

• Build: hg19

• Locus definition: nearest_tss

• K-Mer Reads: 40mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.nearest_tss.40mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

Gene locus mappability data, calculated for:

• Build: hg19

• Locus definition: nearest_tss

• K-Mer Reads: 50mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.nearest_tss.50mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

Description

Gene locus mappability data, calculated for:

• Build: hg19

• Locus definition: nearest_tss

• K-Mer Reads: 75mer

These objects are used internally by the chipenrich package.

```
data(mappa.hg19.nearest_tss.75mer)
```

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.mm9.10kb.100mer mappa.mm9.10kb.100mer
```

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 10kbK-Mer Reads: 100mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.10kb.100mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

```
mappa.mm9.10kb.36mer mappa.mm9.10kb.36mer
```

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 10kbK-Mer Reads: 36mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.10kb.36mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.mm9.10kb.40mer mappa.mm9.10kb.40mer
```

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 10kbK-Mer Reads: 40mer

These objects are used internally by the chipenrich package.

```
data(mappa.mm9.10kb.40mer)
```

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.mm9.10kb.50mer mappa.mm9.10kb.50mer
```

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 10kbK-Mer Reads: 50mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.10kb.50mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

```
mappa.mm9.10kb.75mer mappa.mm9.10kb.75mer
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Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 10kbK-Mer Reads: 75mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.10kb.75mer)
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Format

```
A data frame containing:
geneid Entrez Gene IDs
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```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.mm9.1kb.100mer mappa.mm9.1kb.100mer
```

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 1kbK-Mer Reads: 100mer

These objects are used internally by the chipenrich package.

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Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 1kbK-Mer Reads: 50mer

These objects are used internally by the chipenrich package.

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A data frame containing:
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mappa.mm9.1kb.75mer mappa.mm9.1kb.75mer
```

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 1kbK-Mer Reads: 75mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.1kb.75mer)
```

Format

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A data frame containing:
geneid Entrez Gene IDs
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Author(s)

Ryan Welch <welchr@umich.edu>

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mappa.mm9.5kb.100mer mappa.mm9.5kb.100mer
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Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 5kbK-Mer Reads: 100mer

These objects are used internally by the chipenrich package.

Usage

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A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

mappa.mm9.5kb.40mer

mappa.mm9.5kb.40mer

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 5kbK-Mer Reads: 40mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.5kb.40mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

mappa.mm9.5kb.50mer

mappa.mm9.5kb.50mer

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 5kbK-Mer Reads: 50mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.5kb.50mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

mappa.mm9.5kb.75mer

mappa.mm9.5kb.75mer

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 5kbK-Mer Reads: 75mer

These objects are used internally by the chipenrich package.

```
data(mappa.mm9.5kb.75mer)
```

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.mm9.exon.100mer mappa.mm9.exon.100mer
```

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: exonK-Mer Reads: 100mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.exon.100mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

```
mappa.mm9.exon.36mer mappa.mm9.exon.36mer
```

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: exonK-Mer Reads: 36mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.exon.36mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.mm9.exon.40mer mappa.mm9.exon.40mer
```

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: exonK-Mer Reads: 40mer

These objects are used internally by the chipenrich package.

```
data(mappa.mm9.exon.40mer)
```

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.mm9.exon.50mer mappa.mm9.exon.50mer
```

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: exonK-Mer Reads: 50mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.exon.50mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

```
mappa.mm9.exon.75mer mappa.mm9.exon.75mer
```

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: exonK-Mer Reads: 75mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.exon.75mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: intronK-Mer Reads: 100mer

These objects are used internally by the chipenrich package.

```
data(mappa.mm9.intron.100mer)
```

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
{\tt mappa.mm9.intron.36mer}
```

mappa.mm9.intron.36mer

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: intronK-Mer Reads: 36mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.intron.36mer)
```

Format

A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

```
mappa.mm9.intron.40mer
```

mappa.mm9.intron.40mer

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: intronK-Mer Reads: 40mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.intron.40mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.mm9.intron.50mer
```

mappa.mm9.intron.50mer

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: intronK-Mer Reads: 50mer

These objects are used internally by the chipenrich package.

```
data(mappa.mm9.intron.50mer)
```

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.mm9.intron.75mer
```

mappa.mm9.intron.75mer

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: intronK-Mer Reads: 75mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.intron.75mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

Gene locus mappability data, calculated for:

• Build: mm9

• Locus definition: nearest_gene

• K-Mer Reads: 100mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.nearest_gene.100mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

Description

Gene locus mappability data, calculated for:

• Build: mm9

• Locus definition: nearest_gene

• K-Mer Reads: 36mer

These objects are used internally by the chipenrich package.

```
data(mappa.mm9.nearest_gene.36mer)
```

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

Description

Gene locus mappability data, calculated for:

• Build: mm9

• Locus definition: nearest_gene

• K-Mer Reads: 40mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.nearest_gene.40mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

Gene locus mappability data, calculated for:

• Build: mm9

• Locus definition: nearest_gene

• K-Mer Reads: 50mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.nearest_gene.50mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

Description

Gene locus mappability data, calculated for:

• Build: mm9

• Locus definition: nearest_gene

• K-Mer Reads: 75mer

These objects are used internally by the chipenrich package.

```
data(mappa.mm9.nearest_gene.75mer)
```

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

Description

Gene locus mappability data, calculated for:

• Build: mm9

• Locus definition: nearest_tss

• K-Mer Reads: 100mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.nearest_tss.100mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

Gene locus mappability data, calculated for:

• Build: mm9

• Locus definition: nearest_tss

• K-Mer Reads: 36mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.nearest_tss.36mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

Description

Gene locus mappability data, calculated for:

• Build: mm9

• Locus definition: nearest_tss

• K-Mer Reads: 40mer

These objects are used internally by the chipenrich package.

```
data(mappa.mm9.nearest_tss.40mer)
```

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

Description

Gene locus mappability data, calculated for:

• Build: mm9

• Locus definition: nearest_tss

• K-Mer Reads: 50mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.nearest_tss.50mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

Description

Gene locus mappability data, calculated for:

• Build: mm9

• Locus definition: nearest_tss

• K-Mer Reads: 75mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.nearest_tss.75mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

peaks_E2F4

ChIP-seq Peaks for the E2F4 Transcription Factor

Description

A dataset containing the binding locations (peaks) of the transcription factor E2F4 called from a ChIP-seq experiment

Usage

```
peaks_E2F4
```

Format

A data frame containing 16,245 peak binding locations. Each row is a peak location, and the 3 variables/columns are chromosome, start peak coordinate, and end peak coordinate. Peak coordinates are in hg19 (UCSC) coordinates.

Source

The data and information regarding the experiment can be found in the following publication:

Lee, B. K., A. A. Bhinge, et al. (2011). "Wide-ranging functions of E2F4 in transcriptional activation and repression revealed by genome-wide analysis." Nucleic Acids Res 39(9): 3558-3573.

Examples

```
# Load E2F4 peak data.
data(peaks_E2F4)

# Print the first 10 peaks in the dataset.
print(head(peaks_E2F4))
```

peaks_H3K4me3_GM12878 ChIP-seq Peaks for the Histone Modification H3K4me3 in GM12878

Description

A dataset containing the binding locations (peaks) of the histone modification H3K4me3 called from a ChIP-seq experiment in the GM12878 cell line

Usage

```
peaks_H3K4me3_GM12878
```

Format

A data frame containing 57,476 peak binding locations. Each row is a peak location, and the 3 variables/columns are chromosome, start peak coordinate, and end peak coordinate. Peak coordinates are in hg19 (UCSC) coordinates.

Source

The data and information regarding the experiment can be found at the following ENCODE URL:

http://hgdownload.cse.ucsc.edu/goldenPath/hg19/encodeDCC/wgEncodeBroadHistone/wgEncodeBroadHistoneGm128

Examples

```
# Load H3K4me3 in GM12878 peak data.
data(peaks_H3K4me3_GM12878)

# Print the first 10 peaks in the dataset.
print(head(peaks_H3K4me3_GM12878))
```

```
spline.log_dtss.90ENCODE
```

DTSS Spline adjustment

Description

A mgcv::gam object on a combined data of 90 ENCODE ChIP-seq datasets that modeled the relationship between a gene's locus length the distance from a peak to the gene's transcription start site, using a cubic spline. This is used to adjust for the proximity to TSSes test.

Usage

```
spline.log_dtss.90ENCODE
```

Format

An object of class gam (inherits from glm, lm) of length 46.

tss.danRer10

tss.danRer10 TSS locations

Description

A GRanges with all the TSSs for danRer10. Primarily used in the assign_peaks() function to report distance of a peak to the nearest TSS. Also used to build the QC plot with distribution of peaks to TSSs.

Usage

tss.danRer10

Format

A GRanges object with the following mcols:

```
gene_id The Entrez ID for the TSS
symbol The gene symbol for the TSS
```

Source

R packages: TxDb.Drerio.UCSC.danRer10.refGene_3.4.2 and org.Dr.eg.db_3.5.0.

184 tss.dm6

tss.dm3

tss.dm3 TSS locations

Description

A GRanges with all the TSSs for dm3. Primarily used in the assign_peaks() function to report distance of a peak to the nearest TSS. Also used to build the QC plot with distribution of peaks to TSSs

Usage

tss.dm3

Format

A GRanges object with the following mcols:

```
gene_id The Entrez ID for the TSS
symbol The gene symbol for the TSS
```

Source

R packages: TxDb.Dmelanogaster.UCSC.dm3.ensGene_3.2.2 and org.Dm.eg.db_3.5.0.

tss.dm6

tss.dm6 TSS locations

Description

A GRanges with all the TSSs for dm6. Primarily used in the assign_peaks() function to report distance of a peak to the nearest TSS. Also used to build the QC plot with distribution of peaks to TSSs.

Usage

tss.dm6

Format

A GRanges object with the following mcols:

```
gene_id The Entrez ID for the TSS
symbol The gene symbol for the TSS
```

Source

R packages: TxDb.Dmelanogaster.UCSC.dm6.ensGene_3.4.1 and org.Dm.eg.db_3.5.0.

tss.hg19

tss.hg19

tss.hg19 TSS locations

Description

A GRanges with all the TSSs for hg19. Primarily used in the assign_peaks() function to report distance of a peak to the nearest TSS. Also used to build the QC plot with distribution of peaks to TSSs.

Usage

tss.hg19

Format

A GRanges object with the following mcols:

gene_id The Entrez ID for the TSS
symbol The gene symbol for the TSS

Source

R packages: TxDb.Hsapiens.UCSC.hg19.knownGene_3.2.2 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.annota and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.Ent

tss.hg38

tss.hg38 TSS locations

Description

A GRanges with all the TSSs for hg38. Primarily used in the assign_peaks() function to report distance of a peak to the nearest TSS. Also used to build the QC plot with distribution of peaks to TSSs.

Usage

tss.hg38

Format

A GRanges object with the following mcols:

gene_id The Entrez ID for the TSS
symbol The gene symbol for the TSS

Source

R packages: TxDb.Hsapiens.UCSC.hg38.knownGene_3.4.0 and org.Hs.eg.db_3.5.0. GENCODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/gencode.v25.metadata.EntrezGene.gz

186 tss.mm9

tss.mm10

tss.mm10 TSS locations

Description

A GRanges with all the TSSs for mm10. Primarily used in the assign_peaks() function to report distance of a peak to the nearest TSS. Also used to build the QC plot with distribution of peaks to TSSs.

Usage

tss.mm10

Format

A GRanges object with the following mcols:

```
gene_id The Entrez ID for the TSS
symbol The gene symbol for the TSS
```

Source

R packages: TxDb.Mmusculus.UCSC.mm10.knownGene_3.4.0 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M12/gencode.vM12.metadata.EntrezGene.gz

tss.mm9

tss.mm9 TSS locations

Description

A GRanges with all the TSSs for mm9. Primarily used in the assign_peaks() function to report distance of a peak to the nearest TSS. Also used to build the QC plot with distribution of peaks to TSSs.

Usage

tss.mm9

Format

A GRanges object with the following mcols:

```
gene_id The Entrez ID for the TSS
symbol The gene symbol for the TSS
```

Source

R packages: TxDb.Mmusculus.UCSC.mm9.knownGene_3.2.2 and org.Mm.eg.db_3.5.0. GEN-CODE resources: ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.annotation.gff3.gz and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_mouse/release_M9/gencode.vM9.metadata.EntrezGene.gz

tss.rn4 187

tss.rn4

tss.rn4 TSS locations

Description

A GRanges with all the TSSs for rn4. Primarily used in the assign_peaks() function to report distance of a peak to the nearest TSS. Also used to build the QC plot with distribution of peaks to TSSs

Usage

tss.rn4

Format

A GRanges object with the following mcols:

```
gene_id The Entrez ID for the TSS
symbol The gene symbol for the TSS
```

Source

R packages: TxDb.Rnorvegicus.UCSC.rn4.ensGene_3.2.2 and org.Rn.eg.db_3.5.0.

tss.rn5

tss.rn5 TSS locations

Description

A GRanges with all the TSSs for rn5. Primarily used in the assign_peaks() function to report distance of a peak to the nearest TSS. Also used to build the QC plot with distribution of peaks to TSSs.

Usage

tss.rn5

Format

A GRanges object with the following mcols:

```
gene_id The Entrez ID for the TSS
symbol The gene symbol for the TSS
```

Source

R packages: TxDb.Rnorvegicus.UCSC.rn5.refGene_3.4.2 and org.Rn.eg.db_3.5.0.

188 tss.rn6

tss.rn6

tss.rn6 TSS locations

Description

A GRanges with all the TSSs for rn6. Primarily used in the assign_peaks() function to report distance of a peak to the nearest TSS. Also used to build the QC plot with distribution of peaks to TSSs.

Usage

tss.rn6

Format

A GRanges object with the following mcols:

gene_id The Entrez ID for the TSS
symbol The gene symbol for the TSS

Source

 $R\ packages:\ TxDb.Rnorvegicus.UCSC.rn6.refGene_3.4.1\ and\ org.Rn.eg.db_3.5.0.$

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