Package 'chipenrich.data'

July 15, 2025

Title Companion package to chipenrich

Version 2.32.0 Date 2023-03-29

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. known Gene,

TxDb.Rnorvegicus.UCSC.rn4.ensGene,

TxDb.Rnorvegicus.UCSC.rn5.refGene,

TxDb.Rnorvegicus.UCSC.rn6.refGene

VignetteBuilder knitr

RoxygenNote 6.1.1

Maintainer Kai Wang <wangdaha@umich.edu>

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Author Ryan P. Welch [aut, cph],
Chee Lee [aut],
Raymond G. Cavalcante [aut],
Kai Wang [cre],
Laura J. Scott [ths],
Maureen A. Sartor [ths]

chipenrich.data
enhancer.dnase_thurman.0
gene.enh.desc
GeneSet-class
geneset.biocarta_pathway.hsa
geneset.biocarta_pathway.mmu
geneset.biocarta_pathway.rno
geneset.ctd.hsa
geneset.ctd.mmu
geneset.cytoband.hsa
geneset.drug_bank.hsa
geneset.drug_bank.mmu
geneset.drug_bank.rno
geneset.GOBP.dme
geneset.GOBP.dre
geneset.GOBP.hsa
geneset.GOBP.mmu
geneset.GOBP.rno
geneset.GOCC.dme
geneset.GOCC.dre
geneset.GOCC.hsa
geneset.GOCC.mmu
geneset.GOCC.rno
geneset.GOMF.dme
geneset.GOMF.dre
geneset.GOMF.hsa
geneset.GOMF.mmu
geneset.GOMF.rno
geneset.hallmark.hsa
geneset.immunologic.hsa
geneset.kegg_pathway.hsa
geneset.kegg_pathway.mmu
geneset.kegg_pathway.rno
geneset.mesh.hsa
geneset.mesh.mmu

	20
geneset.mesh.rno	
geneset.metabolite.hsa	
geneset.metabolite.mmu	
geneset.metabolite.rno	
geneset.microrna.hsa	
geneset.oncogenic.hsa	. 32
geneset.panther_pathway.hsa	. 33
geneset.panther_pathway.mmu	. 34
geneset.panther_pathway.rno	. 34
geneset.pfam.hsa	. 35
geneset.pfam.mmu	. 35
geneset.pfam.rno	
geneset.protein_interaction_biogrid.hsa	
geneset.reactome.dme	
geneset.reactome.dre	
geneset.reactome.hsa	
geneset.reactome.mmu	
geneset.reactome.rno	
geneset.transcription_factors.hsa	
geneset.transcription_factors.mmu	
geneset.transcription_factors.rno	
locusdef.danRer10.10kb	
locusdef.danRer10.10kb_outside	
locusdef.danRer10.10kb_outside_upstream	
locusdef.danRer10.1kb	. 45
locusdef.danRer10.1kb_outside	. 45
locusdef.danRer10.1kb_outside_upstream	. 46
locusdef.danRer10.5kb	
locusdef.danRer10.5kb_outside	
locusdef.danRer10.5kb_outside_upstream	
locusdef.danRer10.exon	49
locusdef.danRer10.intron	
locusdef.danRer10.nearest_gene	
locusdef.danRer10.nearest_tss	
locusdef.dm3.10kb	
locusdef.dm3.10kb_outside	
locusdef.dm2.10kb_outside_vmstracers	. 33
locusdef.dm3.10kb_outside_upstream	
locusdef.dm3.1kb	
locusdef.dm3.1kb_outside	
locusdef.dm3.1kb_outside_upstream	
locusdef.dm3.5kb	
locusdef.dm3.5kb_outside	. 57
locusdef.dm3.5kb_outside_upstream	. 58
locusdef.dm3.exon	. 59
locusdef.dm3.intron	. 59
locusdef.dm3.nearest_gene	. 60
locusdef.dm3.nearest_tss	. 61
locusdef.dm6.10kb	

locusdef.dm6.10kb_outside	
locusdef.dm6.10kb_outside_upstream	
$locus def. dm 6.1 kb \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots$	64
locusdef.dm6.1kb_outside	65
locusdef.dm6.1kb_outside_upstream	65
locusdef.dm6.5kb	
locusdef.dm6.5kb_outside	67
locusdef.dm6.5kb_outside_upstream	
locusdef.dm6.exon	
locusdef.dm6.intron	
locusdef.dm6.nearest_gene	
locusdef.dm6.nearest_tss	
locusdef.hg19.10kb	71
locusdef.hg19.10kb_outside	72
locusdef.hg19.10kb_outside_upstream	73
locusdef.hg19.1kb	74
locusdef.hg19.1kb_outside	74
locusdef.hg19.1kb_outside_upstream	75
locused fig 19.1kb_outside_upsiteam	76
locusdef.hg19.5kb	77
locusdef.hg19.5kb_outside	
locusdef.hg19.5kb_outside_upstream	77
locusdef.hg19.exon	78
locusdef.hg19.intron	79
locusdef.hg19.nearest_gene	80
locusdef.hg19.nearest_tss	80
locusdef.hg38.10kb	81
locusdef.hg38.10kb_outside	82
$locus def.hg 38.10 kb_out side_up stream \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	
$locus def. hg 38.1 kb \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots$	83
locusdef.hg38.1kb_outside	84
$locus def.hg 38.1kb_out side_up stream \dots \dots$	
locusdef.hg38.5kb	
locusdef.hg38.5kb_outside	86
$locus def.hg 38.5 kb_out side_up stream \dots \dots$	87
locusdef.hg38.exon	88
locusdef.hg38.intron	89
locusdef.hg38.nearest_gene	89
locusdef.hg38.nearest_tss	90
locusdef.mm10.10kb	91
locusdef.mm10.10kb_outside	92
locusdef.mm10.10kb_outside_upstream	92
locusdef.mm10.1kb	93
locusdef.mm10.1kb outside	94
locusdef.mm10.1kb_outside_upstream	95
locusdef.mm10.5kb	95
locusdef.mm10.5kb_outside	96
locusdef.mm10.5kb_outside_upstream	97
locusdef.mm10.exon	98

locusdef.mm10.intron	
locusdef.mm10.nearest_gene	
locusdef.mm10.nearest_tss	100
locusdef.mm9.10kb	101
locusdef.mm9.10kb_outside	101
locusdef.mm9.10kb_outside_upstream	102
locusdef.mm9.1kb	103
locusdef.mm9.1kb_outside	104
locusdef.mm9.1kb_outside_upstream	104
locusdef.mm9.5kb	105
locusdef.mm9.5kb outside	106
locusdef.mm9.5kb_outside_upstream	107
locusdef.mm9.exon	
locusdef.mm9.intron	
locusdef.mm9.nearest_gene	
locusdef.mm9.nearest tss	
locusdef.rn4.10kb	
locusdef.rn4.10kb outside	
locusdef.rn4.10kb_outside_upstream	
locusdef.rn4.1kb	
locusdef.rn4.1kb_outside	
locusdef.rn4.1kb_outside_upstream	
locusdef.rn4.5kb	
locusdef.rn4.5kb_outside	
locusdef.rn4.5kb_outside_upstream	
locusdef.rn4.exon	
locusdef.rn4.intron	
locusdef.rn4.nearest_gene	
locusdef.rn4.nearest_tss	
locusdef.rn5.10kb	
locusdef.rn5.10kb_outside	
locusdef.rn5.10kb_outside_upstream	
locusdef.rn5.1kb	
locusdef.rn5.1kb_outside	
1	
locusdef.rn5.5kb	
locusdef.rn5.5kb_outside	
locusdef.rn5.5kb_outside_upstream	
locusdef.rn5.exon	
locusdef.rn5.intron	
locusdef.rn5.nearest_gene	
locusdef.rn5.nearest_tss	
locusdef.rn6.10kb	
locusdef.rn6.10kb_outside	
locusdef.rn6.10kb_outside_upstream	
locusdef.rn6.1kb	
locusdef.rn6.1kb_outside	
locusdef.rn6.1kb outside upstream	133

locusdef.rn6.5kb
locusdef.rn6.5kb_outside
locusdef.rn6.5kb_outside_upstream
locusdef.rn6.exon
locusdef.rn6.intron
locusdef.rn6.nearest_gene
locusdef.rn6.nearest_tss
LocusDefinition-class
mappa.hg19.10kb.100mer
mappa.hg19.10kb.24mer
mappa.hg19.10kb.36mer
mappa.hg19.10kb.40mer
mappa.hg19.10kb.50mer
mappa.hg19.10kb.75mer
mappa.hg19.1kb.100mer
mappa.hg19.1kb.24mer
mappa.hg19.1kb.36mer
mappa.hg19.1kb.40mer
mappa.hg19.1kb.50mer
mappa.hg19.1kb.75mer
mappa.hg19.5kb.100mer
mappa.hg19.5kb.24mer
mappa.hg19.5kb.36mer
mappa.hg19.5kb.40mer
mappa.hg19.5kb.50mer
mappa.hg19.5kb.75mer
mappa.hg19.exon.100mer
mappa.hg19.exon.24mer
mappa.hg19.exon.36mer
mappa.hg19.exon.40mer
mappa.hg19.exon.50mer
mappa.hg19.exon.75mer
mappa.hg19.intron.100mer
mappa.hg19.intron.24mer
mappa.hg19.intron.36mer
mappa.hg19.intron.40mer
11 0
mappa.hg19.intron.50mer
mappa.hg19.intron.75mer
mappa.hg19.nearest_gene.100mer
mappa.hg19.nearest_gene.24mer
mappa.hg19.nearest_gene.36mer
mappa.hg19.nearest_gene.40mer
mappa.hg19.nearest_gene.50mer
mappa.hg19.nearest_gene.75mer
mappa.hg19.nearest_tss.100mer
mappa.hg19.nearest_tss.24mer
mappa.hg19.nearest_tss.36mer
mappa.hg19.nearest tss.40mer

mappa.ng19.nearest_tss.50mer
mappa.hg19.nearest_tss.75mer
mappa.mm9.10kb.100mer
mappa.mm9.10kb.36mer
mappa.mm9.10kb.40mer
mappa.mm9.10kb.50mer
mappa.mm9.10kb.75mer
mappa.mm9.1kb.100mer
mappa.mm9.1kb.36mer
mappa.mm9.1kb.40mer
mappa.mm9.1kb.50mer
mappa.mm9.1kb.75mer
mappa.mm9.5kb.100mer
mappa.mm9.5kb.36mer
mappa.mm9.5kb.40mer
mappa.mm9.5kb.50mer
mappa.mm9.5kb.75mer
mappa.mm9.exon.100mer
mappa.mm9.exon.36mer
mappa.mm9.exon.40mer
mappa.mm9.exon.50mer
mappa.mm9.exon.75mer
mappa.mm9.intron.100mer
mappa.mm9.intron.36mer
mappa.mm9.intron.40mer
mappa.mm9.intron.50mer
mappa.mm9.intron.75mer
mappa.mm9.nearest_gene.100mer
mappa.mm9.nearest_gene.36mer
mappa.mm9.nearest_gene.40mer
mappa.mm9.nearest_gene.50mer
mappa.mm9.nearest_gene.75mer
mappa.mm9.nearest_tss.100mer
mappa.mm9.nearest_tss.36mer
mappa.mm9.nearest_tss.40mer
mappa.mm9.nearest_tss.50mer
mappa.mm9.nearest_tss.75mer
peaks_E2F4
peaks_H3K4me3_GM12878
spline.log_dtss.90ENCODE
tss.danRer10
tss.dm3
tss.dm6
tss.hg19
tss.hg38
tss.mm10
tss.mm9
tes rn4 197

enhancer.dnase ti	hurman.0
-------------------	----------

tss.rn5																						19	7
tss.rn6				•																		19	8

Index 199

chipenrich.data

chipenrich.data: Data for chipenrich: gene set enrichment analysis for ChIP-seq data

Description

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

enhancer.dnase_thurman.0

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
```

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 9

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")

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

12 geneset.ctd.mmu

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

geneset.cytoband.hsa 13

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 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.

geneset.drug_bank.rno 15

See Also

For more information about genesets: chipenrich.data

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

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
```

16 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.Dm.eg.db_3.4.2 and GO.db_3.4.2

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 17

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

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

18 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.Mm.eg.db_3.4.2 and GO.db_3.4.2

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

geneset.GOCC.dme 19

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

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

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

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 21

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

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

22 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.Rn.eg.db_3.4.2 and GO.db_3.4.2

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 23

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

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

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

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 25

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
```

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
```

 ${\tt geneset.hall} {\tt mark.hsa} \ \ {\tt geneset.hall} {\tt mark.hsa} \ \ {\tt genesets} \ {\tt for} \ {\tt Hall} {\tt mark} \ ({\tt MSigDB})$

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

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

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.kegg_pathway.rno)
```

Format

See GeneSet-class for a description of the format.

See Also

For more information about genesets: chipenrich.data

geneset.mesh.hsa 29

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

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

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

30 geneset.metabolite.hsa

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

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

```
geneset.metabolite.hsa
```

geneset.metabolite.hsa

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

geneset.metabolite.mmu

```
geneset.metabolite.mmu
```

geneset.metabolite.mmu

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

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

```
geneset.metabolite.rno
```

geneset.metabolite.rno

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

32 geneset.oncogenic.hsa

geneset.microrna.hsa 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.broadinstitute.org/gsea/msigdb/collections.jsp#C3

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

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 35

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

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

geneset.reactome.dme 37

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://thebiogrid.org

geneset.reactome.dme 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

38 geneset.reactome.hsa

geneset.reactome.dre 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

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

geneset.reactome.mmu 39

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 genesets for Mus musculus

Description

Reactome genesets for Mus musculus. All genesets are required to have \geq 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.

40 geneset.reactome.rno

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

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.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

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)
```

42 locusdef.danRer10.10kb

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.transcription\_factors.rno} \\ {\it 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

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_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 45

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

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.danRer10.1kb_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.

locusdef.danRer10.5kb 47

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

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.danRer10.5kb_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

locusdef.danRer10.exon 49

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.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

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.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.

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.

52 locusdef.dm3.10kb

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

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.dm3.10kb_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.

54 locusdef.dm3.1kb

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

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

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.

56 locusdef.dm3.5kb

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

locusdef.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.

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

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_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.

Source

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

locusdef.dm3.exon 59

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

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.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

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_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:

 ${\bf granges}$ 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.

64 locusdef.dm6.1kb

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

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.

 ${\tt locusdef.dm6.1kb_outside_upstream}$

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.

66 locusdef.dm6.5kb

Usage

locusdef.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

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.

68 locusdef.dm6.exon

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

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.

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

locusdef.dm6.intron 69

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

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.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

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.annotation and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCode_human/release_25/GRCh37_mapping/gencode.

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

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 09:45:59 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.annotation and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanation and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.

locusdef.hg19.10kb_outside_upstream locusdef.hg19.10kb_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.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.

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.annotation and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCo

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.annotation and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCo

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.annotation and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanation and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.

 $locus def.hg 19.1kb_outside_upstream$

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

locusdef.hg19.1kb_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, hg19.

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

Details

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

76 locusdef.hg19.5kb

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.annotation and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCo

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.annotation and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezG

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 down-stream 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.annotation and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanals.compa

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.

78 locusdef.hg19.exon

Usage

locusdef.hg19.5kb_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, 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.annotation and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanals.compa

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.

locusdef.hg19.intron 79

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.annotation and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanylease_25/GRCh37_mapping/gencode.

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.annotation and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCompanation and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.

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.annotation and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCo

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

locusdef.hg38.10kb 81

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.annotation and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCo

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

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

 $locus def.hg 38.1kb_outside_upstream$

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

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

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.

88 locusdef.hg38.exon

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 89

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 91

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 down-stream 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

 $locus def.\,mm10.\,10kb_outside_upstream$

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.

locusdef.mm10.1kb 93

Usage

locusdef.mm10.10kb_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, 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

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

 $locus def.\,mm10.\,5kb_outside_upstream$

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

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

98 locusdef.mm10.intron

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

 $locus def. {\tt mm10.intron} \ \ locus def. {\tt mm10.intron} \ locus definition$

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.

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

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

locusdef.mm9.10kb_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.mm9.10kb_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, mm9.

organism A character indicating the organism name. In this case, Mus musculus.

Details

Built on Fri Apr 13 09:50:44 2018.

locusdef.mm9.1kb

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 down-stream 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

 $locus def.\,mm9.\,1kb_outside_upstream$

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.

locusdef.mm9.5kb

Usage

locusdef.mm9.1kb_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, 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

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

108 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 09:50:39 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

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

110 locusdef.rn4.10kb

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.

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

locusdef.rn4.10kb_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.rn4.10kb_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, 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

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

Format

A LocusDefinition object with the following slots:

 ${\bf granges}$ 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.

locusdef.rn4.5kb

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

locusdef.rn4.5kb_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.

locusdef.rn4.exon

Usage

locusdef.rn4.5kb_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, 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.

118 locusdef.rn4.intron

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

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.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.

locusdef.rn5.10kb

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

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

 $locus def.rn 5.10 kb_out side_up stream$

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

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_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

locusdef.rn5.5kb locus definition

Description

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

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_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

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.

locusdef.rn5.exon 127

Source

R packages: TxDb.Rnorvegicus.UCSC.rn5.refGene_3.4.2 and org.Rn.eg.db_3.5.0.

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.

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 LocusDefinition 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.

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

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.rn6.10kb_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

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 09:52:40 2018.

Source

R packages: TxDb.Rnorvegicus.UCSC.rn6.refGene_3.4.1 and org.Rn.eg.db_3.5.0.

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.

locusdef.rn6.1kb

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

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.rn6.1kb_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

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_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

134 locusdef.rn6.5kb

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, 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

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_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

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.rn6.5kb_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

locusdef.rn6.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, 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

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 137

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

Usage

locusdef.rn6.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, rn6.

organism A character indicating the organism name. In this case, Rattus norvegicus.

Details

Built on Fri Apr 13 09:52:34 2018.

LocusDefinition-class 139

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

For more information about gene locus definitions: chipenrich.data

```
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
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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.

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data(mappa.hg19.10kb.36mer)
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Format

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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

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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

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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

For more information about gene locus definitions: chipenrich.data

```
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)
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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.hg19.10kb.75mer mappa.hg19.10kb.75mer
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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

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data(mappa.hg19.10kb.75mer)
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Format

```
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.hg19.1kb.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)
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Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

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Description

Gene locus mappability data, calculated for:

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Locus definition: 1kbK-Mer Reads: 24mer

These objects are used internally by the chipenrich package.

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data(mappa.hg19.1kb.24mer)
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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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Locus definition: 1kbK-Mer Reads: 36mer

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Usage

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Format

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Ryan Welch <welchr@umich.edu>

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mappa.hg19.1kb.40mer mappa.hg19.1kb.40mer
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Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 1kbK-Mer Reads: 40mer

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A data frame containing:
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See Also

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```
mappa.hg19.1kb.50mer mappa.hg19.1kb.50mer
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Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 1kbK-Mer Reads: 50mer

```
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Format

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Ryan Welch <welchr@umich.edu>

See Also

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Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 1kbK-Mer Reads: 75mer

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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

```
mappa.hg19.5kb.100mer mappa.hg19.5kb.100mer
```

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 5kbK-Mer Reads: 100mer

These objects are used internally by the chipenrich package.

Usage

```
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Format

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A data frame containing:
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Author(s)

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For more information about gene locus definitions: chipenrich.data

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Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 5kbK-Mer Reads: 50mer

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data(mappa.hg19.5kb.50mer)
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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.75mer mappa.hg19.5kb.75mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: 5kbK-Mer Reads: 75mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.5kb.75mer)
```

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.100mer 
 mappa.hg19.exon.100mer
```

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)
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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

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mappa.hg19.exon.24mer mappa.hg19.exon.24mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: exonK-Mer Reads: 24mer

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data(mappa.hg19.exon.24mer)
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Author(s)

Ryan Welch <welchr@umich.edu>

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Author(s)

Ryan Welch <welchr@umich.edu>

See Also

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• Build: hg19

Locus definition: exonK-Mer Reads: 40mer

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\verb|mappa.hg19.exon.50mer| mappa.hg19.exon.50mer|
```

Description

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• Build: hg19

Locus definition: exonK-Mer Reads: 50mer

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Format

```
A data frame containing:
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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.

Usage

```
data(mappa.hg19.exon.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: 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

For more information about gene locus definitions: chipenrich.data

```
mappa.hg19.intron.24mer mappa.hg19.intron.24mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: intronK-Mer Reads: 24mer

```
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

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: intronK-Mer Reads: 36mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.hg19.intron.36mer)
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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.40mer mappa.hg19.intron.40mer
```

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
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Author(s)

Ryan Welch <welchr@umich.edu>

See Also

For more information about gene locus definitions: chipenrich.data

```
mappa.hg19.intron.50mer mappa.hg19.intron.50mer
```

Description

Gene locus mappability data, calculated for:

• Build: hg19

Locus definition: intronK-Mer Reads: 50mer

```
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.

Usage

```
data(mappa.hg19.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: 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

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: 24mer

```
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.

Usage

```
data(mappa.hg19.nearest_gene.36mer)
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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

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

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: 50mer

```
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.

Usage

```
data(mappa.hg19.nearest_gene.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: 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

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: 24mer

```
data(mappa.hg19.nearest_tss.24mer)
```

Format

```
A data frame containing:
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Author(s)

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• Build: hg19

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• K-Mer Reads: 36mer

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Usage

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data(mappa.hg19.nearest_tss.36mer)
```

Format

```
A data frame containing:
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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: 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

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: 50mer

```
data(mappa.hg19.nearest_tss.50mer)
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Format

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A data frame containing:
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Author(s)

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• Build: hg19

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• K-Mer Reads: 75mer

These objects are used internally by the chipenrich package.

Usage

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A data frame containing:
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Author(s)

Ryan Welch <welchr@umich.edu>

See Also

```
mappa.mm9.10kb.100mer mappa.mm9.10kb.100mer
```

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

For more information about gene locus definitions: chipenrich.data

```
mappa.mm9.10kb.36mer mappa.mm9.10kb.36mer
```

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 10kbK-Mer Reads: 36mer

```
data(mappa.mm9.10kb.36mer)
```

Format

```
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.mm9.10kb.40mer mappa.mm9.10kb.40mer
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Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 10kbK-Mer Reads: 40mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.10kb.40mer)
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Format

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A data frame containing:
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Author(s)

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See Also

```
mappa.mm9.10kb.50mer mappa.mm9.10kb.50mer
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• Build: mm9

Locus definition: 10kbK-Mer Reads: 50mer

These objects are used internally by the chipenrich package.

Usage

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Author(s)

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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.

Usage

```
data(mappa.mm9.1kb.100mer)
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Format

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A data frame containing:
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Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 1kbK-Mer Reads: 36mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.1kb.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.mm9.1kb.40mer mappa.mm9.1kb.40mer

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 1kbK-Mer Reads: 40mer

```
data(mappa.mm9.1kb.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.mm9.1kb.50mer

mappa.mm9.1kb.50mer

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 1kbK-Mer Reads: 50mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.1kb.50mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

```
mappa.mm9.1kb.75mer mappa.mm9.1kb.75mer
```

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

```
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.100mer mappa.mm9.5kb.100mer
```

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 5kbK-Mer Reads: 100mer

```
data(mappa.mm9.5kb.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

mappa.mm9.5kb.36mer

mappa.mm9.5kb.36mer

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 5kbK-Mer Reads: 36mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.5kb.36mer)
```

Format

```
A data frame containing:
geneid Entrez Gene IDs
mappa Gene locus mappability
```

Author(s)

Ryan Welch <welchr@umich.edu>

See Also

mappa.mm9.5kb.40mer n

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

For more information about gene locus definitions: chipenrich.data

mappa.mm9.5kb.50mer

mappa.mm9.5kb.50mer

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: 5kbK-Mer Reads: 50mer

```
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.

Usage

```
data(mappa.mm9.5kb.75mer)
```

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.100mer mappa.mm9.exon.100mer
```

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

For more information about gene locus definitions: chipenrich.data

```
mappa.mm9.exon.36mer mappa.mm9.exon.36mer
```

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: exonK-Mer Reads: 36mer

```
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.

Usage

```
data(mappa.mm9.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.mm9.exon.50mer mappa.mm9.exon.50mer
```

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

For more information about gene locus definitions: chipenrich.data

```
mappa.mm9.exon.75mer mappa.mm9.exon.75mer
```

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: exonK-Mer Reads: 75mer

```
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

```
mappa.mm9.intron.100mer mappa.mm9.intron.100mer
```

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: intronK-Mer Reads: 100mer

These objects are used internally by the chipenrich package.

Usage

```
data(mappa.mm9.intron.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: 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

For more information about gene locus definitions: chipenrich.data

Description

Gene locus mappability data, calculated for:

• Build: mm9

Locus definition: intronK-Mer Reads: 40mer

```
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.

Usage

```
data(mappa.mm9.intron.50mer)
```

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: 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

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: 100mer

```
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.

Usage

```
data(mappa.mm9.nearest_gene.36mer)
```

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: 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

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: 50mer

```
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.

Usage

```
data(mappa.mm9.nearest_gene.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_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

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: 36mer

```
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.

Usage

```
data(mappa.mm9.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: 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

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: 75mer

peaks_E2F4 191

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/wgEncodeBroadHistoneGm12878H

Examples

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 193

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.

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.

194 tss.hg19

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 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
```

tss.hg38

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.annotation and ftp://ftp.sanger.ac.uk/pub/gencode/Gencode_human/release_25/GRCh37_mapping/gencode.v25lift37.metadata.EntrezCo

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

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

196 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.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 TSSsymbol 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 197

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.

198 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.

Index

```
* classes
                                                   geneset.metabolite.mmu, 31
    GeneSet-class, 9
                                                   geneset.metabolite.rno,31
    LocusDefinition-class, 139
                                                   geneset.microrna.hsa, 32
* datasets
                                                   geneset.oncogenic.hsa, 32
    enhancer.dnase_thurman.0,8
                                                   geneset.panther_pathway.hsa, 33
    gene.enh.desc, 9
                                                   geneset.panther_pathway.mmu, 34
    geneset.biocarta_pathway.hsa, 10
                                                   geneset.panther_pathway.rno, 34
    geneset.biocarta_pathway.mmu, 11
                                                   geneset.pfam.hsa, 35
    geneset.biocarta_pathway.rno, 11
                                                   geneset.pfam.mmu, 35
    geneset.ctd.hsa, 12
                                                   geneset.pfam.rno, 36
    geneset.ctd.mmu, 12
                                                   geneset.protein_interaction_biogrid.hsa,
    geneset.cytoband.hsa, 13
    geneset.drug_bank.hsa,14
                                                   geneset.reactome.dme, 37
    geneset.drug_bank.mmu, 14
                                                   geneset.reactome.dre, 38
    geneset.drug_bank.rno, 15
                                                   geneset.reactome.hsa, 38
    geneset.GOBP.dme, 15
                                                   geneset.reactome.mmu, 39
    geneset.GOBP.dre, 16
                                                   geneset.reactome.rno, 40
    geneset.GOBP.hsa, 17
                                                   geneset.transcription_factors.hsa,
    geneset.GOBP.mmu, 17
    geneset.GOBP.rno, 18
                                                   geneset.transcription_factors.mmu,
    geneset.GOCC.dme, 19
    geneset.GOCC.dre, 19
                                                   geneset.transcription_factors.rno,
    geneset.GOCC.hsa, 20
    geneset.GOCC.mmu, 21
                                                   locusdef.danRer10.10kb, 42
    geneset.GOCC.rno, 21
                                                   locusdef.danRer10.10kb_outside,43
    geneset.GOMF.dme, 22
                                                   locusdef.danRer10.10kb_outside_upstream,
    geneset.GOMF.dre, 23
                                                       44
    geneset.GOMF.hsa, 23
                                                   locusdef.danRer10.1kb, 45
    geneset.GOMF.mmu, 24
                                                   locusdef.danRer10.1kb_outside,45
    geneset.GOMF.rno, 25
                                                   locusdef.danRer10.1kb_outside_upstream,
    geneset.hallmark.hsa, 25
    geneset.immunologic.hsa, 26
                                                   locusdef.danRer10.5kb.47
    geneset.kegg_pathway.hsa, 27
                                                   locusdef.danRer10.5kb_outside,48
                                                   locusdef.danRer10.5kb_outside_upstream,
    geneset.kegg_pathway.mmu, 28
    geneset.kegg_pathway.rno, 28
    geneset.mesh.hsa, 29
                                                   locusdef.danRer10.exon, 49
    geneset.mesh.mmu, 29
                                                   locusdef.danRer10.intron, 50
    geneset.mesh.rno, 30
                                                   locusdef.danRer10.nearest_gene, 50
    geneset.metabolite.hsa, 30
                                                   locusdef.danRer10.nearest_tss, 51
```

locusdef.hg38.10kb,81
locusdef.hg38.10kb_outside,82
locusdef.hg38.10kb_outside_upstream
locusdef.hg38.1kb,83
locusdef.hg38.1kb_outside,84
locusdef.hg38.1kb_outside_upstream, 85
locusdef.hg38.5kb,86
locusdef.hg38.5kb_outside,86
locusdef.hg38.5kb_outside_upstream, 87
locusdef.hg38.exon,88
locusdef.hg38.intron,89
locusdef.hg38.nearest_gene,89
<pre>locusdef.hg38.nearest_tss, 90</pre>
locusdef.mm10.10kb,91
locusdef.mm10.10kb_outside,92
locusdef.mm10.10kb_outside_upstream
locusdef.mm10.1kb,93
<pre>locusdef.mm10.1kb_outside, 94</pre>
<pre>locusdef.mm10.1kb_outside_upstream, 95</pre>
locusdef.mm10.5kb,95
locusdef.mm10.5kb_outside,96
<pre>locusdef.mm10.5kb_outside_upstream, 97</pre>
locusdef.mm10.exon, 98
locusdef.mm10.intron,98
locusdef.mm10.nearest_gene,99
<pre>locusdef.mm10.nearest_tss, 100</pre>
locusdef.mm9.10kb, 101
<pre>locusdef.mm9.10kb_outside, 101</pre>
<pre>locusdef.mm9.10kb_outside_upstream,</pre>
locusdef.mm9.1kb, 103
locusdef.mm9.1kb_outside, 104
<pre>locusdef.mm9.1kb_outside_upstream,</pre>
locusdef.mm9.5kb, 105
locusdef.mm9.5kb_outside, 106
locusdef.mm9.5kb_outside_upstream, 107
locusdef.mm9.exon, 107
locusdef.mm9.intron, 108
<pre>locusdef.mm9.nearest_gene, 109</pre>
<pre>locusdef.mm9.nearest_tss, 110</pre>

locusdef.rn4.10kb, 110	mappa.hg19.10kb.100mer, 140
locusdef.rn4.10kb_outside,111	mappa.hg19.10kb.24mer, 140
locusdef.rn4.10kb_outside_upstream,	mappa.hg19.10kb.36mer, 141
112	mappa.hg19.10kb.40mer, 142
locusdef.rn4.1kb, 113	mappa.hg19.10kb.50mer, 142
locusdef.rn4.1kb_outside, 113	mappa.hg19.10kb.75mer, 143
locusdef.rn4.1kb_outside_upstream,	mappa.hg19.1kb.100mer, 144
114	mappa.hg19.1kb.24mer, 144
locusdef.rn4.5kb, 115	mappa.hg19.1kb.36mer, 145
locusdef.rn4.5kb_outside, 116	mappa.hg19.1kb.40mer, 146
locusdef.rn4.5kb_outside_upstream,	mappa.hg19.1kb.50mer, 146
116	mappa.hg19.1kb.75mer, 147
locusdef.rn4.exon, 117	mappa.hg19.5kb.100mer, 148
locusdef.rn4.intron, 118	mappa.hg19.5kb.24mer, 148
locusdef.rn4.nearest_gene, 119	mappa.hg19.5kb.36mer, 149
locusdef.rn4.nearest_tss, 119	mappa.hg19.5kb.40mer, 150
locusdef.rn5.10kb, 120	mappa.hg19.5kb.50mer, 150
locusdef.rn5.10kb_outside,121	mappa.hg19.5kb.75mer, 151
locusdef.rn5.10kb_outside_upstream,	mappa.hg19.exon.100mer, 152
122	mappa.hg19.exon.24mer, 152
locusdef.rn5.1kb, 122	mappa.hg19.exon.36mer, 153
locusdef.rn5.1kb_outside, 123	mappa.hg19.exon.40mer, 154
locusdef.rn5.1kb_outside_upstream,	mappa.hg19.exon.50mer, 154
124	mappa.hg19.exon.75mer, 155
locusdef.rn5.5kb, 125	mappa.hg19.intron.100mer, 156
locusdef.rn5.5kb_outside,125	mappa.hg19.intron.24mer, 156
locusdef.rn5.5kb_outside_upstream,	mappa.hg19.intron.36mer, 157
126	mappa.hg19.intron.40mer, 158
locusdef.rn5.exon, 127	mappa.hg19.intron.50mer, 158
locusdef.rn5.intron, 127	mappa.hg19.intron.75mer, 159
locusdef.rn5.nearest_gene, 128	<pre>mappa.hg19.nearest_gene.100mer,</pre>
locusdef.rn5.nearest_tss, 129	160
locusdef.rn6.10kb, 130	mappa.hg19.nearest_gene.24mer, 160
locusdef.rn6.10kb_outside,130	mappa.hg19.nearest_gene.36mer, 161
locusdef.rn6.10kb_outside_upstream,	mappa.hg19.nearest_gene.40mer, 162
131	mappa.hg19.nearest_gene.50mer, 162
locusdef.rn6.1kb, 132	mappa.hg19.nearest_gene.75mer, 163
locusdef.rn6.1kb_outside,133	mappa.hg19.nearest_tss.100mer, 164
locusdef.rn6.1kb_outside_upstream,	<pre>mappa.hg19.nearest_tss.24mer, 164</pre>
133	<pre>mappa.hg19.nearest_tss.36mer, 165</pre>
locusdef.rn6.5kb, 134	<pre>mappa.hg19.nearest_tss.40mer, 166</pre>
locusdef.rn6.5kb_outside,135	<pre>mappa.hg19.nearest_tss.50mer, 166</pre>
locusdef.rn6.5kb_outside_upstream,	<pre>mappa.hg19.nearest_tss.75mer, 167</pre>
135	mappa.mm9.10kb.100mer, 168
locusdef.rn6.exon, 136	mappa.mm9.10kb.36mer, 168
locusdef.rn6.intron, 137	mappa.mm9.10kb.40mer, 169
locusdef.rn6.nearest_gene, 137	mappa.mm9.10kb.50mer, 170
<pre>locusdef.rn6.nearest_tss, 138</pre>	mappa.mm9.10kb.75mer, 170

mappa.mm9.1kb.100mer, 171	enhancer.dnase_thurman.0, 8
mappa.mm9.1kb.36mer, 172	
mappa.mm9.1kb.40mer, 172	gene.enh.desc,9
mappa.mm9.1kb.50mer, 173	GeneSet-class, 9
mappa.mm9.1kb.75mer, 174	geneset.biocarta_pathway.hsa, 10
mappa.mm9.5kb.100mer, 174	geneset.biocarta_pathway.mmu,11
mappa.mm9.5kb.36mer, 175	geneset.biocarta_pathway.rno,11
mappa.mm9.5kb.40mer, 176	geneset.ctd.hsa, 12
mappa.mm9.5kb.50mer, 176	geneset.ctd.mmu, 12
mappa.mm9.5kb.75mer, 177	geneset.cytoband.hsa, 13
mappa.mm9.exon.100mer, 178	geneset.drug_bank.hsa, 14
mappa.mm9.exon.36mer, 178	geneset.drug_bank.mmu, 14
• • • • • • • • • • • • • • • • • • • •	geneset.drug_bank.rno, 15
mappa.mm9.exon.40mer, 179	geneset.GOBP.dme, 15
mappa.mm9.exon.50mer, 180	geneset.GOBP.dre, 16
mappa.mm9.exon.75mer, 180	geneset.GOBP.hsa, 17
mappa.mm9.intron.100mer, 181	geneset.GOBP.mmu, 17
mappa.mm9.intron.36mer, 182	geneset.GOBP.rno,18
mappa.mm9.intron.40mer, 182	geneset.GOCC.dme, 19
mappa.mm9.intron.50mer,183	geneset.GOCC.dre, 19
mappa.mm9.intron.75mer,184	geneset.GOCC.hsa, 20
mappa.mm9.nearest_gene.100mer, 184	geneset.GOCC.mmu, 21
mappa.mm9.nearest_gene.36mer, 185	geneset.GOCC.rno, 21
mappa.mm9.nearest_gene.40mer, 186	geneset.GOMF.dme, 22
mappa.mm9.nearest_gene.50mer, 186	geneset.GOMF.dre, 23
mappa.mm9.nearest_gene.75mer, 187	geneset.GOMF.hsa, 23
mappa.mm9.nearest_tss.100mer, 188	geneset.GOMF.mmu, 24
<pre>mappa.mm9.nearest_tss.36mer, 188</pre>	geneset.GOMF.rno, 25
mappa.mm9.nearest_tss.40mer, 189	geneset.hallmark.hsa, 25
mappa.mm9.nearest_tss.50mer, 190	_
mappa.mm9.nearest_tss.75mer, 190	geneset.immunologic.hsa, 26
peaks_E2F4, 191	geneset.kegg_pathway.hsa, 27
peaks_H3K4me3_GM12878, 192	geneset.kegg_pathway.mmu, 28
spline.log_dtss.90ENCODE, 192	geneset.kegg_pathway.rno, 28
tss.danRer10, 193	geneset.mesh.hsa, 29
tss.dm3, 193	geneset.mesh.mmu, 29
tss.dm6, 194	geneset.mesh.rno, 30
tss.hg19, 194	geneset.metabolite.hsa, 30
tss.hg38, 195	geneset.metabolite.mmu, 31
tss.mm10, 195	geneset.metabolite.rno,31
tss.mm9, 196	geneset.microrna.hsa, 32
	geneset.oncogenic.hsa, 32
tss.rn4, 197	<pre>geneset.panther_pathway.hsa, 33</pre>
tss.rn5,197	geneset.panther_pathway.mmu, 34
tss.rn6, 198	<pre>geneset.panther_pathway.rno, 34</pre>
	geneset.pfam.hsa, 35
chipenrich.data, 8, 11, 13, 15, 28-31, 33,	geneset.pfam.mmu, 35
34, 36, 42, 140–191	geneset.pfam.rno, 36
chipenrich.data-package	${\tt geneset.protein_interaction_biogrid.hsa},$
(chipenrich.data), 8	36

geneset.reactome.dme, 37	<pre>locusdef.dm6.nearest_gene, 70</pre>
geneset.reactome.dre,38	<pre>locusdef.dm6.nearest_tss, 71</pre>
geneset.reactome.hsa,38	locusdef.hg19.10kb,71
geneset.reactome.mmu, 39	locusdef.hg19.10kb_outside,72
geneset.reactome.rno,40	locusdef.hg19.10kb_outside_upstream,
<pre>geneset.transcription_factors.hsa,41</pre>	73
<pre>geneset.transcription_factors.mmu,41</pre>	locusdef.hg19.1kb,74
<pre>geneset.transcription_factors.rno,42</pre>	locusdef.hg19.1kb_outside, 74
	locusdef.hg19.1kb_outside_upstream,75
locusdef.danRer10.10kb, 42	locusdef.hg19.5kb, 76
locusdef.danRer10.10kb_outside,43	locusdef.hg19.5kb_outside,77
locusdef.danRer10.10kb_outside_upstream,	locusdef.hg19.5kb_outside_upstream,77
44	locusdef.hg19.exon, 78
locusdef.danRer10.1kb,45	locusdef.hg19.intron, 79
locusdef.danRer10.1kb_outside,45	locusdef.hg19.nearest_gene, 80
<pre>locusdef.danRer10.1kb_outside_upstream,</pre>	locusdef.hg19.nearest_tss, 80
46	locusdef.hg38.10kb,81
locusdef.danRer10.5kb,47	locusdef.hg38.10kb_outside, 82
locusdef.danRer10.5kb_outside,48	locusdef.hg38.10kb_outside_upstream,
<pre>locusdef.danRer10.5kb_outside_upstream,</pre>	83
48	locusdef.hg38.1kb, 83
locusdef.danRer10.exon, 49	locusdef.hg38.1kb_outside, 84
locusdef.danRer10.intron,50	locusdef.hg38.1kb_outside_upstream, 85
locusdef.danRer10.nearest_gene, 50	locusdef.hg38.5kb, 86
locusdef.danRer10.nearest_tss, 51	locusdef.hg38.5kb_outside, 86
locusdef.dm3.10kb,52	locusdef.hg38.5kb_outside_upstream, 87
locusdef.dm3.10kb_outside,53	locusdef.hg38.exon, 88
locusdef.dm3.10kb_outside_upstream,53	locusdef.hg38.intron, 89
locusdef.dm3.1kb,54	locusdef.hg38.nearest_gene, 89
locusdef.dm3.1kb_outside,55	locusdef.hg38.nearest_tss, 90
locusdef.dm3.1kb_outside_upstream,56	locusdef.mm10.10kb, 91
locusdef.dm3.5kb,56	locusdef.mm10.10kb_outside, 92
locusdef.dm3.5kb_outside,57	locusdef.mm10.10kb_outside_upstream,
locusdef.dm3.5kb_outside_upstream,58	92
locusdef.dm3.exon, 59	locusdef.mm10.1kb,93
locusdef.dm3.intron,59	locusdef.mm10.1kb_outside, 94
locusdef.dm3.nearest_gene,60	locusdef.mm10.1kb_outside_upstream, 95
locusdef.dm3.nearest_tss,61	
locusdef.dm6.10kb,62	locusdef.mm10.5kb, 95
locusdef.dm6.10kb_outside,62	locusdef.mm10.5kb_outside,96
locusdef.dm6.10kb_outside_upstream, 63	locusdef.mm10.5kb_outside_upstream, 97
locusdef.dm6.1kb,64	locusdef.mm10.exon, 98
locusdef.dm6.1kb_outside,65	locusdef.mm10.intron, 98
locusdef.dm6.1kb_outside_upstream,65	locusdef.mm10.nearest_gene, 99
locusdef.dm6.5kb,66	locusdef.mm10.nearest_tss, 100
locusdef.dm6.5kb_outside,67	locusdef.mm9.10kb, 101
locusdef.dm6.5kb_outside_upstream,68	locusdef.mm9.10kb_outside, 101
locusdef.dm6.exon, 68	locusdef.mm9.10kb_outside_upstream,
locusdef.dm6.intron,69	102

locusdef.mm9.1kb, 103	locusdef.rn6.exon, 136
locusdef.mm9.1kb_outside, 104	locusdef.rn6.intron, 137
<pre>locusdef.mm9.1kb_outside_upstream, 104</pre>	<pre>locusdef.rn6.nearest_gene, 137</pre>
locusdef.mm9.5kb, 105	<pre>locusdef.rn6.nearest_tss, 138</pre>
locusdef.mm9.5kb_outside, 106	LocusDefinition-class, 139
<pre>locusdef.mm9.5kb_outside_upstream, 107</pre>	
locusdef.mm9.exon, 107	mappa.hg19.10kb.100mer, 140
locusdef.mm9.intron, 108	mappa.hg19.10kb.24mer, 140
<pre>locusdef.mm9.nearest_gene, 109</pre>	mappa.hg19.10kb.36mer, 141
<pre>locusdef.mm9.nearest_tss, 110</pre>	mappa.hg19.10kb.40mer, 142
locusdef.rn4.10kb, 110	mappa.hg19.10kb.50mer, 142
locusdef.rn4.10kb_outside, 111	mappa.hg19.10kb.75mer, 143
locusdef.rn4.10kb_outside_upstream,	mappa.hg19.1kb.100mer, 144
112	mappa.hg19.1kb.24mer, 144
locusdef.rn4.1kb, 113	mappa.hg19.1kb.36mer, 145
locusdef.rn4.1kb_outside, 113	mappa.hg19.1kb.40mer, <u>146</u>
locusdef.rn4.1kb_outside_upstream, 114	mappa.hg19.1kb.50mer, 146
locusdef.rn4.5kb, 115	mappa.hg19.1kb.75mer, 147
locusdef.rn4.5kb_outside, 116	mappa.hg19.5kb.100mer, 148
locusdef.rn4.5kb_outside_upstream, 116	mappa.hg19.5kb.24mer, 148
	mappa.hg19.5kb.36mer, 149
locusdef.rn4.exon, 117	mappa.hg19.5kb.40mer, 150
locusdef.rn4.intron, 118	mappa.hg19.5kb.50mer, 150
locusdef.rn4.nearest_gene, 119	mappa.hg19.5kb.75mer, 151
locusdef.rn4.nearest_tss, 119	mappa.hg19.exon.100mer, 152
locusdef.rn5.10kb, 120	mappa.hg19.exon.24mer,152
locusdef.rn5.10kb_outside, 121	mappa.hg19.exon.36mer, 153
locusdef.rn5.10kb_outside_upstream,	mappa.hg19.exon.40mer, 154
122	mappa.hg19.exon.50mer,154
locusdef.rn5.1kb, 122	mappa.hg19.exon.75mer, 155
locusdef.rn5.1kb_outside, 123	mappa.hg19.intron.100mer, 156
locusdef.rn5.1kb_outside_upstream, 124	mappa.hg19.intron.24mer, 156
locusdef.rn5.5kb, 125	mappa.hg19.intron.36mer, 157
locusdef.rn5.5kb_outside, 125	mappa.hg19.intron.40mer, 158
locusdef.rn5.5kb_outside_upstream, 126	mappa.hg19.intron.50mer, 158
locusdef.rn5.exon, 127	mappa.hg19.intron.75mer, 159
locusdef.rn5.intron, 127	mappa.hg19.nearest_gene.100mer, 160
locusdef.rn5.nearest_gene, 128	<pre>mappa.hg19.nearest_gene.24mer, 160</pre>
locusdef.rn5.nearest_tss, 129	<pre>mappa.hg19.nearest_gene.36mer, 161</pre>
locusdef.rn6.10kb, 130	<pre>mappa.hg19.nearest_gene.40mer, 162</pre>
locusdef.rn6.10kb_outside, 130	<pre>mappa.hg19.nearest_gene.50mer, 162</pre>
<pre>locusdef.rn6.10kb_outside_upstream,</pre>	mappa.hg19.nearest_gene.75mer, 163
131	mappa.hg19.nearest_tss.100mer, 164
locusdef.rn6.1kb, 132	mappa.hg19.nearest_tss.24mer, 164
<pre>locusdef.rn6.1kb_outside, 133</pre>	mappa.hg19.nearest_tss.36mer, 165
<pre>locusdef.rn6.1kb_outside_upstream, 133</pre>	mappa.hg19.nearest_tss.40mer, 166
locusdef.rn6.5kb, 134	mappa.hg19.nearest_tss.50mer, 166
locusdef.rn6.5kb_outside, 135	mappa.hg19.nearest_tss.75mer, 167
<pre>locusdef.rn6.5kb_outside_upstream, 135</pre>	mappa.mm9.10kb.100mer, 168

```
mappa.mm9.10kb.36mer, 168
mappa.mm9.10kb.40mer, 169
mappa.mm9.10kb.50mer, 170
mappa.mm9.10kb.75mer, 170
mappa.mm9.1kb.100mer, 171
mappa.mm9.1kb.36mer, 172
mappa.mm9.1kb.40mer, 172
mappa.mm9.1kb.50mer, 173
mappa.mm9.1kb.75mer, 174
mappa.mm9.5kb.100mer, 174
mappa.mm9.5kb.36mer, 175
mappa.mm9.5kb.40mer, 176
mappa.mm9.5kb.50mer, 176
mappa.mm9.5kb.75mer, 177
mappa.mm9.exon.100mer, 178
mappa.mm9.exon.36mer, 178
mappa.mm9.exon.40mer, 179
mappa.mm9.exon.50mer, 180
mappa.mm9.exon.75mer, 180
mappa.mm9.intron.100mer, 181
mappa.mm9.intron.36mer, 182
mappa.mm9.intron.40mer, 182
mappa.mm9.intron.50mer, 183
mappa.mm9.intron.75mer, 184
mappa.mm9.nearest_gene.100mer, 184
mappa.mm9.nearest_gene.36mer, 185
mappa.mm9.nearest_gene.40mer, 186
mappa.mm9.nearest_gene.50mer, 186
mappa.mm9.nearest_gene.75mer, 187
mappa.mm9.nearest_tss.100mer, 188
mappa.mm9.nearest_tss.36mer, 188
mappa.mm9.nearest_tss.40mer, 189
mappa.mm9.nearest_tss.50mer, 190
mappa.mm9.nearest_tss.75mer, 190
peaks_E2F4, 191
peaks_H3K4me3_GM12878, 192
spline.log_dtss.90ENCODE, 192
tss.danRer10, 193
tss.dm3, 193
tss.dm6, 194
tss.hg19, 194
tss.hg38, 195
tss.mm10, 195
tss.mm9, 196
tss.rn4, 197
tss.rn5, 197
tss.rn6, 198
```