

UniProtKeywords

March 12, 2025

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| UniProtKeywords | <i>Release and source information</i> |
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Description

Release and source information

Usage

UniProtKeywords

Examples

UniProtKeywords

| | |
|--------------|-------------------------------|
| kw_ancestors | <i>Ancestor keyword terms</i> |
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Description

Ancestor keyword terms

Usage

data(kw_ancestors)

Value

A list of ancestor keywords.

Examples

```
data(kw_ancestors)
kw_ancestors[1:2]
```

| | |
|-------------|----------------------------|
| kw_children | <i>child keyword terms</i> |
|-------------|----------------------------|

Description

child keyword terms

Usage

```
data(kw_children)
```

Value

A list of child keywords.

Examples

```
data(kw_children)  
kw_children[1:2]
```

| | |
|--------------|--------------------------------|
| kw_offspring | <i>Offspring keyword terms</i> |
|--------------|--------------------------------|

Description

Offspring keyword terms

Usage

```
data(kw_offspring)
```

Value

A list of offspring keywords.

Examples

```
data(kw_offspring)  
kw_offspring[1:2]
```

| | |
|------------|------------------------------|
| kw_parents | <i>Parents keyword terms</i> |
|------------|------------------------------|

Description

Parents keyword terms

Usage

```
data(kw_parents)
```

Value

A list of parent keywords.

Examples

```
data(kw_parents)
kw_parents[1:2]
```

| | |
|----------|----------------------|
| kw_terms | <i>Keyword terms</i> |
|----------|----------------------|

Description

Keyword terms

Usage

```
data(kw_terms)
```

Details

Data is from https://ftp.uniprot.org/pub/databases/uniprot/current_release/knowledgebase/complete/docs/keywlist.txt

Last updated: 2023-03-22.

Value

A list of keyword terms. Each keyword term has the following elements:

- Identifier
- Accession
- Description
- Synonyms
- Gene_ontology
- Hierarchy
- WWW_site
- Category

Examples

```
data(kw_terms)
kw_terms[[1]]
```

load_keyword_genesets *Load keyword genesets for a specific species*

Description

Load keyword genesets for a specific species

Usage

```
load_keyword_genesets(taxon_id = 9606, category = NULL, as_table = FALSE)
```

Arguments

| | |
|----------|---|
| taxon_id | The taxon ID. To make it more flexible, you can also provide the Latin name or the normal name of the species. |
| category | Category of keywords. There are the following categories: "Biological process", "Cellular component", "Coding sequence diversity", "Developmental stage", "Disease", "Domain", "Ligand", "Molecular function", "Post-translational modification", "Technical term". |
| as_table | If true, the returned value will be a two-column data frame. |

Details

Following are the supported species (with more than 1000 genes annotated):

- "10090": *Mus musculus* / house mouse
- "10116": *Rattus norvegicus* / Norway rat
- "208964": *Pseudomonas aeruginosa* PAO1 / strain, g-proteobacteria
- "224308": *Bacillus subtilis* subsp. *subtilis* str. 168 / strain, firmicutes
- "237561": *Candida albicans* SC5314 / strain, budding yeasts
- "243232": *Methanocaldococcus jannaschii* DSM 2661 / strain, euryarchaeotes
- "284812": *Schizosaccharomyces pombe* 972h- / strain, ascomycete fungi
- "3702": *Arabidopsis thaliana* / thale cress
- "39947": *Oryza sativa* Japonica Group / (Japanese rice), monocots
- "44689": *Dictyostelium discoideum* / species, cellular slime molds
- "559292": *Saccharomyces cerevisiae* S288C / strain, budding yeasts
- "6239": *Caenorhabditis elegans* / species, nematodes
- "623": *Shigella flexneri* / species, enterobacteria
- "7227": *Drosophila melanogaster* / (fruit fly), species, flies
- "7955": *Danio rerio* / (zebrafish), species, bony fishes
- "83332": *Mycobacterium tuberculosis* H37Rv / strain, high G+C Gram-positive bacteria
- "83333": *Escherichia coli* K-12 / strain, enterobacteria

- "83334": Escherichia coli O157:H7 / serotype, enterobacteria
- "8355": Xenopus laevis / (African clawed frog), species, frogs & toads
- "8364": Xenopus tropicalis / (tropical clawed frog), species, frogs & toads
- "9031": Gallus gallus / (chicken), species, birds
- "9601": Pongo abelii / (Sumatran orangutan), species, primates
- "9606": Homo sapiens / human
- "9823": Sus scrofa / (pig), species, even-toed ungulates
- "9913": Bos taurus / cattle
- "99287": Salmonella enterica subsp. enterica serovar Typhimurium str. LT2 / strain, enterobacteria

Value

If `as_table` is set to `FALSE`, it returns a list of gene sets where Entrez IDs are the gene IDs. If `as_table` is set to `TRUE`, it returns a two-column data frame.

Examples

```
lt = load_keyword_genesets(9606)
lt[3:4]
tb = load_keyword_genesets(9606, as_table = TRUE)
head(tb)
# load_keyword_genesets("mouse")
```

```
print.UniProtKeywords_info
      Print the UniProtKeywords object
```

Description

Print the UniProtKeywords object

Usage

```
## S3 method for class 'UniProtKeywords_info'
print(x, ...)
```

Arguments

| | |
|------------------|--------------------------|
| <code>x</code> | A UniProtKeyword object. |
| <code>...</code> | Other arguments |

Examples

```
UniProtKeywords
```

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