

LowMACAAnnotation

February 18, 2026

getLowMACAAnnotationData

Retrieve Data from LowMACAAnnotation Package

Description

Functions to retrieve protein level, Pfam level and aliases data from LowMACAAnnotation Package.

Usage

```
## Retrieve the dataset containing protein level information  
getMyUni()
```

```
## Retrieve the dataset containing Pfam level information  
getMyPfam()
```

```
## Retrieve the dataset containing Gene Symbols aliases  
getMyAlias()
```

Value

All the functions return dataframes

See Also

[myUni](#) [myPfam](#) [myAlias](#)

Examples

```
myUni <- getMyUni()  
myPfam <- getMyPfam()  
myAlias <- getMyAlias()
```

myAlias

Gene Symbol aliases for LowMACA package

Description

A simple parsing of the HGNC database to map aliases and previous symbols to correct official Gene Symbols

Usage

```
data("myAlias")
```

Format

A data frame with the following 2 variables.

Alias a character vector representing all the possible aliases and previous symbols for official Gene Symbols

Official_Gene_Symbol a character vector representing the approved and official Gene Symbol for HGNC database

Locus_Group a character vector representing all the possible locus groups in HGNC database, like protein coding, RNA, pseudogene etc.

Locus_Type a character vector representing all the possible locus types in HGNC database. It is a specification of locus group

MappedByLowMACA a character vector of yes and no if the gene is included in myUni.RData

Source

HGNC

Examples

```
#Load myAlias and show its structure
myAlias <- getMyAlias()
str(myAlias)
```

myPfam

Pfam-A for LowMACA package

Description

This dataset comprises all the Pfam-A entries mapped for LowMACA

Usage

```
data("myPfam")
```

Format

A data frame with the following 11 variables.

Entry a character vector of Uniprot entries

Envelope_Start a numeric vector of starts of the pfam domain relative to the reference protein

Envelope_End a numeric vector of ends of the pfam domain relative to the reference protein

Pfam_ID a character vector of Pfam IDs in the form of PF##### supported by LowMACA

Pfam_Name a character vector of full Pfam domain names

Type a character vector. One of the following: "Domain" "Family" "Repeat" or "Motif"

Clan_ID a numeric vector of Clan IDs, a sort of families of Pfam domains

Entrez a numeric vector of Entrez IDs

UNIPROT a character vector of Uniprot entries in format "name_HUMAN"

Gene_Symbol a character vector of official Gene Symbols

Pfam_Fasta a character vector of amino acid sequences of corresponding Pfam

Details

This is the result of a merge between Pfam-A, Uniprot, HGNC databases

Source

[Pfam website](#)

Examples

```
#Load and show contents of myPfam
data(myPfam)
str(myPfam)
```

myUni

Uniprot database for LowMACA

Description

This dataset comprises all the Uniprot entries mapped for LowMACA

Usage

```
data("myUni")
```

Format

A data frame with 9 variables.

Gene_Symbol a character vector of official Gene Symbols

Entrez a numeric vector of Entrez IDs

UNIPROT a character vector of Uniprot entries in "name_HUMAN" format

Entry a character vector of Uniprot entries

HGNC a character vector of gene names as HGNC numbers

Approved_Name a character vector of approved extended gene names

Protein.name a character vector of approved extended protein names

Chromosome a character vector of chromosomic cytoband positions

AMINO_SEQ a character vector of amino acid sequences for Uniprot entries

Details

This dataset is a 1 to 1 mapping of genes to their canonical proteins or main proteins

Source

Uniprot

Examples

```
#Load dataset and show its structure
data(myUni)
str(myUni)
```

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