Package 'DAPARdata'

April 1, 2025

Type Package

Title Data accompanying the DAPAR and Prostar packages

Version 1.37.0

Date 2023-01-14

Author Samuel Wieczorek [cre,aut],

Thomas Burger [aut], Enora Fremy [aut]

Maintainer Samuel Wieczorek <samuel.wieczorek@cea.fr>

Description Mass-spectrometry based UPS proteomics data sets from Ramus C,

Hovasse A, Marcellin M, Hesse AM, Mouton-Barbosa E, Bouyssie D,

Vaca S, Carapito C, Chaoui K, Bruley C, Garin J, Cianferani S,

Ferro M, Dorssaeler AV, Burlet-Schiltz O, Schaeffer C, Coute Y,

Gonzalez de Peredo A.

Spiked proteomic standard dataset for testing label-free

quantitative software and statistical methods. Data Brief. 2015 Dec 17;6:286-94 and Giai Gianetto, Q., Combes, F., Ramus, C.,

Bruley, C., Coute, Y., Burger, T. (2016). Calibration plot for

proteomics: A graphical tool to visually check the assumptions underlying FDR control in quantitative experiments. Proteomics,

16(1), 29-32.

Depends R (>= 4.4.0), MSnbase

Suggests knitr, DAPAR, BiocStyle

Imports utils

License GPL-2

biocViews ExperimentData, MassSpectrometryData, Proteome

NeedsCompilation no

RoxygenNote 7.2.3

Encoding UTF-8

URL http://www.prostar-proteomics.org/

BugReports https://github.com/edyp-lab/DAPARdata/issues

DAPARdata DAPARdata

VignetteBuilder knitr
git_url https://git.bioconductor.org/packages/DAPARdata
git_branch devel
git_last_commit 6af47a5
git_last_commit_date 2024-11-06
Repository Bioconductor 3.21
Date/Publication 2025-04-01
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Lists the datasets embebbedin DAPARdata

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Exp1_R25_pept

Exp1_R25_pept dataset

Description

This dataset is the final outcome of a quantitative mass spectrometry-based proteomic analysis of two samples containing different concentrations of 48 human proteins (UPS1 standard from Sigma-Aldrich) within a constant yeast background (see Giai Gianetto et al. (2016) for details). It contains the abundance values of the different human and yeast peptides identified and quantified in these two conditions. The two conditions represent the measured abundances of peptides when respectively 25 fmol and 10 fmol of UPS1 human proteins were mixed with the yeast extract before mass spectrometry analyses. This results in a concentration ratio of 2.5. Three technical replicates were acquired for each condition.

The dataset is either available as a CSV file (see inst/extdata/Exp1_R25_pept.txt), or as a MSnSet structure (Exp1_R25_pept). In the latter case, the quantitative data are those of the raw intensities.

Usage

data(Exp1_R25_pept)

Format

An object of class MSnSet related to peptide quantification. It contains 6 samples divided into two conditions (25fmol and 10fmol) and 13918 peptides.

The data frame exprs(Exp1_R25_pept) contains six columns that are the quantitation of peptides for the six replicates.

The data frame fData(Exp1 R25 pept) contains the meta data about the peptides.

The data frame pData(Exp1_R25_pept) contains the experimental design and gives few informations about the samples.

Value

An object of class MSnSet related to peptides quantification.

References

Cox J., Hein M.Y., Luber C.A., Paron I., Nagaraj N., Mann M. Accurate proteome-wide label-free quantification by delayed normalization and maximal peptide ratio extraction, termed MaxLFQ. Mol Cell Proteomics. 2014 Sep, 13(9):2513-26.

4 Exp1_R25_prot

Exp1_R25_prot

Exp1_R25_prot dataset

Description

This dataset is the final outcome of a quantitative mass spectrometry-based proteomic analysis of two samples containing different concentrations of 48 human proteins (UPS1 standard from Sigma-Aldrich) within a constant yeast background (see Giai Gianetto et al. (2016) for details). It contains the abundance values of the different human and yeast proteins identified and quantified in these two conditions. The two conditions represent the measured abundances of proteins when respectively 25 fmol and 10 fmol of UPS1 human proteins were mixed with the yeast extract before mass spectrometry analyses. This results in a concentration ratio of 2.5. Three technical replicates were acquired for each condition.

The dataset is either available as a CSV file (see inst/extdata/Exp1_R25_prot.txt), or as a MSnSet structure (Exp1_R25_prot.MSnset). In the latter case, the quantitative data are those of the raw intensities.

Usage

data(Exp1_R25_prot)

Format

An object of class MSnSet related to proteins quantification. It contains 6 samples divided into two conditions (25 fmol and 10 fmol) and 2384 proteins.

The data frame exprs(Exp1_R25_prot) contains six columns that are the quantitation of proteins for the six replicates.

The data frame fData(Exp1_R25_prot) contains the meta data about the proteins.

The data frame pData(Exp1_R25_prot) contains the experimental design and gives few informations about the samples.

Value

An object of class MSnSet related to proteins quantification.

References

Cox J., Hein M.Y., Luber C.A., Paron I., Nagaraj N., Mann M. Accurate proteome-wide label-free quantification by delayed normalization and maximal peptide ratio extraction, termed MaxLFQ. Mol Cell Proteomics. 2014 Sep, 13(9):2513-26.

Exp1_R2_pept 5

Exp1_R2_pept

Exp1_R2_pept dataset

Description

This dataset is the final outcome of a quantitative mass spectrometry-based proteomic analysis of two samples containing different concentrations of 48 human proteins (UPS1 standard from Sigma-Aldrich) within a constant yeast background (see Giai Gianetto et al. (2016) for details). It contains the abundance values of the different human and yeast peptides identified and quantified in these two conditions. The two conditions represent the measured abundances of peptides when respectively 5 fmol and 10 fmol of UPS1 human proteins were mixed with the yeast extract before mass spectrometry analyses. This results in a concentration ratio of 2. Three technical replicates were acquired for each condition.

The dataset is either available as a CSV file (see inst/extdata/Exp1_R2_pept.txt), or as a MSnSet structure (Exp1_R2_pept). In the latter case, the quantitative data are those of the raw intensities.

Usage

data(Exp1_R2_pept)

Format

An object of class MSnSet related to peptide quantification. It contains 6 samples divided into two conditions (10fmol and 5fmol) and 14048 peptides.

The data frame exprs(Exp1_R2_pept) contains six columns that are the quantitation of peptides for the six replicates.

The data frame fData(Exp1 R2 pept) contains the meta data about the peptides.

The data frame pData(Exp1_R2_pept) contains the experimental design and gives few informations about the samples.

Value

An object of class MSnSet related to peptides quantification.

References

Cox J., Hein M.Y., Luber C.A., Paron I., Nagaraj N., Mann M. Accurate proteome-wide label-free quantification by delayed normalization and maximal peptide ratio extraction, termed MaxLFQ. Mol Cell Proteomics. 2014 Sep, 13(9):2513-26.

6 Exp1_R2_prot

Exp1_R2_prot

Exp1_R2_prot dataset

Description

This dataset is the final outcome of a quantitative mass spectrometry-based proteomic analysis of two samples containing different concentrations of 48 human proteins (UPS1 standard from Sigma-Aldrich) within a constant yeast background (see Giai Gianetto et al. (2016) for details). It contains the abundance values of the different human and yeast proteins identified and quantified in these two conditions. The two conditions represent the measured abundances of proteins when respectively 5 fmol and 10 fmol of UPS1 human proteins were mixed with the yeast extract before mass spectrometry analyses. This results in a concentration ratio of 2. Three technical replicates were acquired for each condition.

The dataset is either available as a CSV file (see inst/extdata/Exp1_R2_prot.txt), or as a MSnSet structure (Exp1_R2_prot.MSnset). In the latter case, the quantitative data are those of the raw intensities.

Usage

data(Exp1_R2_prot)

Format

An object of class MSnSet related to proteins quantification. It contains 6 samples divided into two conditions (10fmol and 5fmol) and 2394 proteins.

The data frame exprs(Exp1_R2_prot) contains six columns that are the quantitation of proteins for the six replicates.

The data frame fData(Exp1_R2_prot) contains the meta data about the proteins.

The data frame pData(Exp1_R2_prot) contains the experimental design and gives few informations about the samples.

Value

An object of class MSnSet related to proteins quantification.

References

Cox J., Hein M.Y., Luber C.A., Paron I., Nagaraj N., Mann M. Accurate proteome-wide label-free quantification by delayed normalization and maximal peptide ratio extraction, termed MaxLFQ. Mol Cell Proteomics. 2014 Sep, 13(9):2513-26.

Exp2_R100_pept 7

Exp2_R100_pept

Exp2_R100_pept dataset

Description

This dataset is the final outcome of a quantitative mass spectrometry-based proteomic analysis of two samples containing different concentrations of 48 human proteins (UPS1 standard from Sigma-Aldrich) within a constant yeast background (see Ramus et al. (2015) for details). It contains the abundance values of the different human and yeast peptides identified and quantified in these two conditions. The two conditions represent the measured abundances of peptides when respectively 1 fmol and 100 fmol of UPS1 human proteins were mixed with the yeast extract before mass spectrometry analyses. This results in a concentration ratio of 100. Three technical replicates were acquired for each condition.

The dataset is either available as a CSV file (see inst/extdata/Exp2_R100_pept.txt), or as a MSnSet structure (Exp2_R100_peptt.MSnset). In the latter case, the quantitative data are those of the raw intensities.

Usage

data(Exp2_R100_pept)

Format

An object of class MSnSet related to peptides quantification. It contains 6 samples divided into two conditions (1 fmol and 100 fmol) and 5684 peptides.

The data frame exprs(Exp2_R100_pept) contains six columns that are the quantitation of peptides for the six replicates.

The data frame fData(Exp2_R100_pept) contains the meta data about the peptides

The data frame pData(Exp2_R100_pept) contains the experimental design and gives few informations about the samples.

Value

An object of class MSnSet related to peptides quantification.

References

8 Exp2_R100_prot

Exp2_R100_prot

Exp2_R100_prot dataset

Description

This dataset is the final outcome of a quantitative mass spectrometry-based proteomic analysis of two samples containing different concentrations of 48 human proteins (UPS1 standard from Sigma-Aldrich) within a constant yeast background (see Ramus et al. (2015) for details). It contains the abundance values of the different human and yeast peptides identified and quantified in these two conditions. The two conditions represent the measured abundances of peptides when respectively 1 fmol and 100 fmol of UPS1 human proteins were mixed with the yeast extract before mass spectrometry analyses. This results in a concentration ratio of 100. Three technical replicates were acquired for each condition.

The dataset is either available as a CSV file (see inst/extdata/Exp2_R100_prot.txt), or as a MSnSet structure (Exp2_R100_prot.MSnset). In the latter case, the quantitative data are those of the raw intensities.

Usage

data(Exp2_R100_prot)

Format

An object of class MSnSet related to proteins quantification. It contains 6 samples divided into two conditions (1 fmol and 100 fmol) and 923 proteins.

The data frame exprs(Exp2_R100_prot) contains six columns that are the quantitation of proteins for the six replicates.

The data frame fData(Exp2_R100_prot) contains the meta data about the proteins.

The data frame pData(Exp2_R100_prot) contains the experimental design and gives few informations about the samples.

Value

An object of class MSnSet related to proteins quantification.

References

Exp2_R10_pept 9

Exp2_R10_pept

Exp2_R10_pept dataset

Description

This dataset is the final outcome of a quantitative mass spectrometry-based proteomic analysis of two samples containing different concentrations of 48 human proteins (UPS1 standard from Sigma-Aldrich) within a constant yeast background (see Ramus et al. (2015) for details). It contains the abundance values of the different human and yeast peptides identified and quantified in these two conditions. The two conditions represent the measured abundances of peptides when respectively 10 fmol and 100 fmol of UPS1 human proteins were mixed with the yeast extract before mass spectrometry analyses. This results in a concentration ratio of 10. Three technical replicates were acquired for each condition.

The dataset is either available as a CSV file (see inst/extdata/Exp2_R10_pept.txt), or as a MSnSet structure (Exp2_R10_pept.MSnset). In the latter case, the quantitative data are those of the raw intensities.

Usage

data(Exp2_R10_pept)

Format

An object of class MSnSet related to peptides quantification. It contains 6 samples divided into two conditions (10 fmol and 100 fmol) and 5633 peptides.

The data frame exprs(Exp2_R10_pept) contains six columns that are the quantitation of peptides for the six replicates.

The data frame fData(Exp2_R10_pept) contains the meta data about the peptides.

The data frame pData(Exp2_R10_pept) contains the experimental design and gives few informations about the samples.

Value

An object of class MSnSet related to peptides quantification.

References

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Exp2_R10_prot

Exp2_R10_prot dataset

Description

This dataset is the final outcome of a quantitative mass spectrometry-based proteomic analysis of two samples containing different concentrations of 48 human proteins (UPS1 standard from Sigma-Aldrich) within a constant yeast background (see Ramus et al. (2015) for details). It contains the abundance values of the different human and yeast peptides identified and quantified in these two conditions. The two conditions represent the measured abundances of peptides when respectively 10 fmol and 100 fmol of UPS1 human proteins were mixed with the yeast extract before mass spectrometry analyses. This results in a concentration ratio of 10. Three technical replicates were acquired for each condition.

The dataset is either available as a CSV file (see inst/extdata/Exp2_R10_prot.txt), or as a MSnSet structure (Exp2_R10_prot.MSnset). In the latter case, the quantitative data are those of the raw intensities.

Usage

data(Exp2_R10_prot)

Format

An object of class MSnSet related to proteins quantification. It contains 6 samples divided into two conditions (10 fmol and 100 fmol) and 948 proteins.

The data frame exprs(Exp2_R10_prot) contains six columns that are the quantitation of proteins for the six replicates.

The data frame fData(Exp2_R10_prot) contains the meta data about the proteins.

The data frame pData(Exp2_R10_prot) contains the experimental design and gives few informations about the samples.

Value

An object of class MSnSet related to proteins quantification.

References

Exp2_R2_pept 11

Exp2_R2_pept

Exp2_R2_pept dataset

Description

This dataset is the final outcome of a quantitative mass spectrometry-based proteomic analysis of two samples containing different concentrations of 48 human proteins (UPS1 standard from Sigma-Aldrich) within a constant yeast background (see Ramus et al. (2015) for details). It contains the abundance values of the different human and yeast peptides identified and quantified in these two conditions. The two conditions represent the measured abundances of peptides when respectively 25 fmol and 50 fmol of UPS1 human proteins were mixed with the yeast extract before mass spectrometry analyses. This results in a concentration ratio of 2. Three technical replicates were acquired for each condition.

The dataset is either available as a CSV file (see inst/extdata/Exp2_R2_pept.txt), or as a MSnSet structure (Exp2_R2_pept.MSnset). In the latter case, the quantitative data are those of the raw intensities.

Usage

data(Exp2_R2_pept)

Format

An object of class MSnSet related to peptides quantification. It contains 6 samples divided into two conditions (25fmol and 50fmol) and 5390 peptides.

The data frame exprs(Exp2_R2_pept) contains six columns that are the quantitation of peptides for the six replicates.

The data frame fData(Exp2_R2_pept) contains the meta data about the peptides

The data frame pData(Exp2_R2_pept) contains the experimental design and gives few informations about the samples.

Value

An object of class MSnSet related to peptides quantification.

References

12 Exp2_R2_prot

Exp2_R2_prot

Exp2_R2_prot dataset

Description

This dataset is the final outcome of a quantitative mass spectrometry-based proteomic analysis of two samples containing different concentrations of 48 human proteins (UPS1 standard from Sigma-Aldrich) within a constant yeast background (see Ramus et al. (2015) for details). It contains the abundance values of the different human and yeast peptides identified and quantified in these two conditions. The two conditions represent the measured abundances of peptides when respectively 25 fmol and 50 fmol of UPS1 human proteins were mixed with the yeast extract before mass spectrometry analyses. This results in a concentration ratio of 2. Three technical replicates were acquired for each condition.

The dataset is either available as a CSV file (see inst/extdata/Exp2_R2_prot.txt), or as a MSnSet structure (Exp2_R2_prot.MSnset). In the latter case, the quantitative data are those of the raw intensities.

Usage

data(Exp2_R2_prot)

Format

An object of class MSnSet related to proteins quantification. It contains 6 samples divided into two conditions (25 fmol and 50 fmol) and 948 proteins.

The data frame exprs(Exp2_R2_prot) contains six columns that are the quantitation of proteins for the six replicates.

The data frame fData(Exp2_R2_prot) contains the meta data about the proteins.

The data frame pData(Exp2_R2_prot) contains the experimental design and gives few informations about the samples.

Value

An object of class MSnSet related to proteins quantification.

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