Summary

The summary file contains summary information for all the raw files processed with a single MaxQuant run. The summary information consists of some MaxQuant parameters, information of the raw file contents, and statistics on the peak detection. Based on this file a quick overview can be gathered on the quality of the data in the raw file.

The last row in this file contains the summary information for each column on each of the processed files.

Name	Separator	Description
Raw file	1	The raw file processed.
Experiment		Experiment name assigned to this LC-MS run in the experimental design.
Fraction		Fraction assigned to this LC-MS run in the experimental design.
Enzyme		The protease used to digest the protein sample.
Enzyme mode		The protease used to digest the protein sample.
Enzyme first search		The protease used for the first search.
Enzyme mode first search		The protease used for the first search.
Use enzyme first search		Marked with '+' when a different protease setup was used for the first search.
Variable modifications		The variable modification(s) used during the identification of peptides.
Fixed modifications		The fixed modification(s) used during the identification of peptides.
Multi modifications		The multi modification(s) used during the identification of peptides.
Variable modifications first search		The variable modification(s) used during the first search.
Use variable modifications first search		Marked with '+' when different variable modifications were used for the first search.
Requantify		The number of labels used.
Multiplicity		The number of labels used.
Max. missed cleavages		The maximum allowed number of missed cleavages.
Labels0		The labels used in the labeling experiment. Allowed values for X: 0=light; 1=medium; 2=heavy label partner.
LC-MS run type		The type of LC-MS run. Usually it will be 'Standard' which refers to a conventional shotgun proteomics run with data-dependent MS/MS.
Time-dependent recalibration		When marked with '+', time-dependent recalibration was applied to improve the data quality.
MS		The number of MS spectra recorded in this raw file.
MS/MS		The number of MS/MS spectra recorded in this raw file.
MS3		The number of MS3 spectra recorded in this raw file.
MS/MS submitted		The number of tandem MS spectra submitted for analysis.
MS/MS submitted (SIL)		The number of tandem MS spectra submitted for analysis, where the precursor ion was detected as part of a labeling cluster.
MS/MS submitted (ISO)		The number of tandem MS spectra submitted for analysis, where the precursor ion was detected as an isotopic pattern.
MS/MS submitted (PEAK)		The number of tandem MS spectra submitted for analysis, where the precursor ion was detected as a single peak.
MS/MS identified		The total number of identified tandem MS spectra.
MS/MS identified (SIL)		The total number of identified tandem MS spectra, where the precursor ion was detected as part of a labeling cluster.
MS/MS identified (ISO)		The total number of identified tandem MS spectra, where the precursor ion was detected as an isotopic pattern.
MS/MS identified (PEAK)		The total number of identified tandem MS spectra, where the precursor ion was detected as a single peak.
MS/MS identified [%]		The percentage of identified tandem MS spectra.
MS/MS identified (SIL) [%]		The percentage of identified tandem MS spectra, where the precursor ion was detected as part of a labeling cluster.
MS/MS identified (ISO) [%]		The percentage of identified tandem MS spectra, where the precursor ion was detected as an isotopic pattern.
MS/MS identified (PEAK) [%]		The percentage of identified tandem MS spectra, where the precursor ion was detected as a single peak.
Peptide sequences identified		The total number of unique peptide amino acid sequences identified from the recorded tandem mass spectra.

Peaks	The total number of peaks detected in the full scans.
Peaks sequenced	The total number of peaks sequenced by tandem MS.
Peaks sequenced [%]	The percentage of peaks sequenced by tandem MS.
Peaks repeatedly sequenced	The total number of peaks repeatedly sequenced (i.e. 1 or more times) by tandem MS.
Peaks repeatedly sequenced [%]	The percentage of peaks repeatedly sequenced (i.e. 1 or more times) by tandem MS.
Isotope patterns	The total number of detected isotope patterns.
Isotope patterns sequenced	The total number of isotope patterns sequenced by tandem MS.
Isotope patterns sequenced (z>1)	The total number of isotope patterns sequenced by tandem MS with a charge state of 2 or more.
Isotope patterns sequenced [%]	The percentage of isotope patterns sequenced by tandem MS.
Isotope patterns sequenced (z>1) [%]	The percentage of isotope patterns sequenced by tandem MS with a charge state of 2 or more.
Isotope patterns repeatedly sequenced	The total number of isotope patterns repeatedly sequenced (i.e. 1 or more times) by tandem MS.
Isotope patterns repeatedly sequenced [%]	The percentage of isotope patterns repeatedly sequenced (i.e. 1 or more times) by tandem MS.
Recalibrated	When marked with '+', the masses taken from the raw file were recalibrated.
Av. absolute mass deviation [ppm]	The average absolute mass deviation found comparing to the identification mass in parts per million.
Mass standard deviation [ppm]	The standard deviation of the mass deviation found comparing to the identification mass in parts per million.
Av. absolute mass deviation [mDa]	The average absolute mass deviation found comparing to the identification mass in milli-Dalton.
Mass standard deviation [mDa]	The standard deviation of the mass deviation found comparing to the identification mass in milli-Dalton.
Label free norm param	The normalization factor used to scale the intensity values in a label-free experiment.

Evidence

The evidence file combines all the information about the identified peptides and normally is the only file required for processing the results. Additional information about the peptides, modifications, proteins, etc. can be found in the other files by unique identifier linkage.

Name	Separator	Description
Sequence		The identified AA sequence of the peptide.
Length		The length of the sequence stored in the column 'Sequence'.
Modifications		Post-translational modifications contained within the identified peptide sequence.
Modified sequence		Sequence representation including the post-translational modifications (abbreviation of the modification in brackets before the modified AA). The sequence is always surrounded by underscore characters ('_').
Oxidation (M) Probabilities		Sequence representation of the peptide including PTM positioning probabilities ([01], where 1 is best match) for 'Oxidation (M)'.
Oxidation (M) Score Diffs		Sequence representation for each of the possible PTM positions in each possible configuration, the difference is calculated between the identification score with the PTM added to that position and the best scoring identification where no PTM is added to that position. When this value is negative, it is unlikely that the particular modification is located at this position.
Acetyl (Protein N-term)		The number of occurrences of the modification 'Acetyl (Protein N-term)'.
Oxidation (M)		The number of occurrences of the modification 'Oxidation (M)'.
Missed cleavages		Number of missed enzymatic cleavages.
Proteins		The identifiers of the proteins this particular peptide is associated with.
Leading proteins		The identifiers of the proteins in the proteinGroups file, with this protein as best match, this particular peptide is associated with. When multiple matches are found here, the best scoring protein can be found in the 'Leading Razor Protein' column.
Leading razor protein		The identifier of the best scoring protein, from the proteinGroups file this, this peptide is associated to.
Gene names		Names of genes this peptide is associated with.
Protein names		Names of proteins this peptide is associated with.
Type		The type of the feature. 'MSMS' for an MS/MS spectrum without an MS1 isotope pattern assigned. 'ISO-MSMS' MS1 isotope cluster identified by MS/MS. 'MULTI-MSMS' MS1 labeling cluster identified by MS/MS. 'MULTI-SECPEP' MS1 labeling cluster identified by MS/MS as second peptide. 'MULTI-MATCH' MS1 labeling cluster identified by matching between runs. In case of label-free data there is no difference between 'MULTI' and 'ISO'.
Raw file		The name of the RAW-file the mass spectral data was derived from.
Fraction		The fraction in which this peptide was detected.
Experiment		
MS/MS m/z		The m/z used for fragmentation (not necessarily the monoisotopic m/z).
Charge		The charge-state of the precursor ion.
m/z		The recalibrated mass-over-charge value of the precursor ion.
Mass		The predicted monoisotopic mass of the identified peptide sequence.
Uncalibrated - Calibrated m/z [ppm]		The difference between the uncalibrated and recalibrated mass-over-charge value of the precursor ion measured in parts-per-million. This gives an indication of the mass drift in the original data, which was automatically corrected by MaxQuant.
Uncalibrated - Calibrated m/z [Da]		The difference between the uncalibrated and recalibrated mass-over-charge value of the precursor ion measured in parts-per-million. This gives an indication of the mass drift in the original data, which was automatically corrected by MaxQuant.
Mass error [ppm]		Mass error of the recalibrated mass-over-charge value of the precursor ion in comparison to the predicted monoisotopic mass of the identified peptide sequence in parts per million.
Mass error [Da]		Mass error of the recalibrated mass-over-charge value of the precursor ion in comparison to the predicted monoisotopic mass of the identified peptide sequence in milli-Dalton.

[To the second se
Uncalibrated mass error [ppm]	Mass error of the uncalibrated mass-over-charge value of the precursor ion in comparison to the predicted monoisotopic mass of the identified peptide sequence.
	Note: This column can contain missing values (denoted as NaN).
Uncalibrated mass error [Da]	Mass error of the uncalibrated mass-over-charge value of the precursor ion in comparison to the predicted monoisotopic mass of the identified peptide sequence.
	Note: This column can contain missing values (denoted as NaN).
Max intensity m/z 0	Summed up extracted lon Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Retention time	The uncalibrated retention time in minutes in the elution profile of the precursor ion.
Retention length	The total retention time length of the peak (last time point first time point).
Calibrated retention time	The recalibrated retention time in minutes in the elution profile of the precursor ion.
Calibrated retention time start	The recalibrated retention start in minutes in the elution profile of the precursor ion.
Calibrated retention time finish	The recalibrated retention finish in minutes in the elution profile of the precursor ion.
Retention time calibration	The difference in minutes between the uncalibrated and recalibrated retention time. This gives an indication of the retention time drift in the original data, which was automatically corrected by MaxQuant.
	Note: This column can contain missing values (NaN).
Match time difference	When the option match between runs is used in MaxQuant, this value indicates the time difference between the feature from the raw file it was taken from and the feature from the raw file it was matched to.
Match m/z difference	When the option match between runs is used in MaxQuant, this value indicates the m/z difference between the feature from the raw file it was taken from and the feature from the raw file it was matched to.
Match q-value	This is the q-value for features that have been identified by 'matching between runs'.
Match score	The andromeda score of the MS/MS identification that is the source of this identification by 'matching between runs'.
Number of data points	The number of data points (peak centroids) collected for this peptide feature.
Number of scans	The number of MS scans that the 3d peaks of this peptide feature are overlapping with.
Number of isotopic peaks	The number of isotopic peaks contained in this peptide feature.
PIF	Short for Parent Ion Fraction; indicates the fraction the target peak makes up of the total intensity in the inclusion window.
Fraction of total spectrum	The percentage the ion intensity makes up of the total intensity of the whole spectrum.
Base peak fraction	The percentage the parent ion intensity in comparison to the highest peak in the MS spectrum.
PEP	Posterior Error Probability of the identification. This value essentially operates as a p-value, where smaller is more significant.
MS/MS count	The number of sequencing events for this sequence, which matches the number of identifiers stored in the column MS/MS IDs.
MS/MS scan number	The RAW-file derived scan number of the MS/MS with the highest peptide identification score (the highest score is stored in the column 'Score').
Score	Andromeda score for the best associated MS/MS spectrum.
Delta score	Score difference to the second best identified peptide.
Combinatorics	Number of possible distributions of the modifications over the peptide sequence.
Intensity	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Reverse	When marked with '+', this particular peptide was found to be part of a protein derived from the reversed part of the decoy database. These should be removed for further data analysis.
Potential contaminant	When marked with '+', this particular peptide was found to be part of a commonly occurring contaminant. These should be removed for further data analysis.
id	A unique (consecutive) identifier for each row in the evidence table, which is used to cross-link the information in this file with the information stored in the other files.

Protein group IDs	The identifier of the protein-group this redundant peptide sequence is associated with, which can be used to look up the extended protein information in the file 'proteinGroups.txt'. As a single peptide can be linked to multiple proteins (e.g. in the case of razor-proteins), multiple ids can be stored here separated by a semicolon. As a protein can be identified by multiple peptides, the same id can be found in different rows.
Peptide ID	The identifier of the non-redundant peptide sequence.
Mod. peptide ID	Identifier of the associated modification summary stored in the file 'modificationSpecificPeptides.txt'.
MS/MS IDs	Identifier(s) of the associated MS/MS summary(s) stored in the file 'msms.txt'.
Best MS/MS	Identifier(s) of the best MS/MS associated spectrum stored in the file 'msms.txt'.
Oxidation (M) site IDs	Identifier(s) of the modification summary stored in the file 'Oxidation (M)Sites.txt'.
Taxonomy IDs	Taxonomy identifiers.

Peptides

The peptides table contains information on the identified peptides in the processed raw-files.

Name	Separator	Description
Sequence		The amino acid sequence of the identified peptide.
N-term cleavage window		Sequence window from -15 to 15 around the N-terminal cleavage site of this peptide.
C-term cleavage window		Sequence window from -15 to 15 around the C-terminal cleavage site of this peptide.
Amino acid before		The amino acid in the protein sequence before the peptide.
First amino acid		The amino acid in the first position of the peptide sequence.
Second amino acid		The amino acid in the first position of the peptide sequence.
Second last amino acid		The amino acid in the last position of the peptide sequence.
Last amino acid		The amino acid in the last position of the peptide sequence.
Amino acid after		The amino acid in the protein sequence after the peptide.
A Count		The number of instances of the 'A' amino acid contained within the sequence.
R Count		The number of instances of the 'R' amino acid contained within the sequence.
N Count		The number of instances of the 'N' amino acid contained within the sequence.
D Count		The number of instances of the 'D' amino acid contained within the sequence.
C Count		The number of instances of the 'C' amino acid contained within the sequence.
Q Count		The number of instances of the 'Q' amino acid contained within the sequence.
E Count		The number of instances of the 'E' amino acid contained within the sequence.
G Count		The number of instances of the 'G' amino acid contained within the sequence.
H Count		The number of instances of the 'H' amino acid contained within the sequence.
I Count		The number of instances of the 'I' amino acid contained within the sequence.
L Count		The number of instances of the 'L' amino acid contained within the sequence.
K Count		The number of instances of the 'K' amino acid contained within the sequence.
M Count		The number of instances of the 'M' amino acid contained within the sequence.
F Count		The number of instances of the 'F' amino acid contained within the sequence.
P Count		The number of instances of the 'P' amino acid contained within the sequence.
S Count		The number of instances of the 'S' amino acid contained within the sequence.
T Count		The number of instances of the 'T' amino acid contained within the sequence.
W Count		The number of instances of the 'W' amino acid contained within the sequence.
Y Count		The number of instances of the 'Y' amino acid contained within the sequence.
V Count		The number of instances of the 'V' amino acid contained within the sequence.
U Count		The number of instances of the 'U' amino acid contained within the sequence.
O Count		The number of instances of the 'O' amino acid contained within the sequence.
Length		The length of the sequence stored in the column "Sequence".
Missed cleavages		Number of missed enzymatic cleavages.
Mass		Monoisotopic mass of the peptide.
Proteins		Identifiers of proteins this peptide is associated with.
Leading razor protein		Identifier of the leading protein in the protein group which uses this peptide for quantification. (Either unique or razor.)
Start position		Position of the first amino acid of this peptide in the protein sequence. (one-based)
End position		Position of the last amino acid of this peptide in the protein sequence. (one-based)

Gene names	Names of genes this peptide is associated with.
Protein names	Names of proteins this peptide is associated with.
Unique (Groups)	When marked with '+', this particular peptide is unique to a single protein group in the proteinGroups file.
Unique (Proteins)	When marked with '+', this particular peptide is unique to a single protein sequence in the fasta file(s).
Charges	All charge states that have been observed.
PEP	Posterior Error Probability of the identification. This value essentially operates as a p-value, where smaller is more significant.
Score	Highest Andromeda score for the associated MS/MS spectra.
Identification type input_1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type input_2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type input_3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P11_1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P11_2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P11_3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P12_1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P12_2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P12_3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P141_1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P141_2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P141_3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P142_1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P142_2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P142_3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Fraction Average	
Fraction Std. Dev.	
Fraction 1	
Fraction 2	
Fraction 3	
Fraction 10	
Experiment input_1	Number of evidence entries for this 'Experiment'.
Experiment input_2	Number of evidence entries for this 'Experiment'.
Experiment input_3	Number of evidence entries for this 'Experiment'.
Experiment P11_1	Number of evidence entries for this 'Experiment'.
Experiment P11_2	Number of evidence entries for this 'Experiment'.
Experiment P11_3	Number of evidence entries for this 'Experiment'.
Experiment P12_1	Number of evidence entries for this 'Experiment'.
Experiment P12_2	Number of evidence entries for this 'Experiment'.
Experiment P12_3	Number of evidence entries for this 'Experiment'.
Experiment P141_1	Number of evidence entries for this 'Experiment'.
Experiment P141_2	Number of evidence entries for this 'Experiment'.
Experiment P141_3	Number of evidence entries for this 'Experiment'.
Experiment P142_1	Number of evidence entries for this 'Experiment'.
Experiment P142_2	Number of evidence entries for this 'Experiment'.
Experiment P142_3	Number of evidence entries for this 'Experiment'.
Intensity	Summed up eXtracted Ion Current (XIC) of all isotopic clusters
,	associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity input_1	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.

nsity input_3 nsity P11_1 nsity P11_2 nsity P11_3 nsity P12_1 nsity P12_2 nsity P12_3 nsity P141_1 nsity P141_2 nsity P141_2 nsity P141_3 nsity P142_1 nsity P142_1	patterns in the label cluster. Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster. Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster. Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster. Summed up eXtracted Ion Current (XIC) of all isotopic clusters in the label cluster.
nsity P11_2 nsity P11_3 nsity P12_1 nsity P12_2 nsity P12_3 nsity P141_1 nsity P141_2 nsity P141_2 nsity P142_1 nsity P142_2	associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster. Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
nsity P11_3 nsity P12_1 nsity P12_2 nsity P12_3 nsity P141_1 nsity P141_2 nsity P141_2 nsity P142_1	associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
nsity P12_1 nsity P12_2 nsity P12_3 nsity P141_1 nsity P141_2 nsity P141_3 nsity P142_1 nsity P142_2	Summed up eXtracted Ion Current (XIC) of all isotopic clusters
nsity P12_2 nsity P12_3 nsity P141_1 nsity P141_2 nsity P141_3 nsity P142_1 nsity P142_2	associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
nsity P12_2 nsity P12_3 nsity P141_1 nsity P141_2 nsity P141_3 nsity P142_1 nsity P142_2	Summed up extracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
nsity P141_1 nsity P141_2 nsity P141_3 nsity P142_1 nsity P142_2	Summed up extracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
nsity P141_2 nsity P141_3 nsity P142_1 nsity P142_2	Summed up extracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
nsity P141_3 nsity P142_1 nsity P142_2	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
nsity P142_1	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
nsity P142_2	Summed up extracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
	Summed up extracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
	When marked with '+', this particular peptide was found to be part of a protein derived from the reversed part of the decoy database. These should be removed for further data analysis.
	When marked with '+', this particular peptide was found to be part of a commonly occurring contaminant. These should be removed for further data analysis.
	A unique (consecutive) identifier for each row in the peptides table, which is used to cross-link the information in this table with the information stored in the other tables.
	The identifiers of the protein groups this peptide was linked to, referenced against the proteinGroups table.
	Identifier(s) for peptide sequence(s), associated with the peptide, referenced against the corresponding modified peptides table.
	Identifier(s) for analyzed peptide evidence associated with the protein group referenced against the evidence table.
MS IDs	The identifiers of the MS/MS scans identifying this peptide, referenced against the msms table.
	The identifier of the best (in terms of quality) MS/MS scan identifying this peptide, referenced against the msms table.
` '	Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file.
onomy IDs	Taxonomy identifiers.
MS Count intensity P11_1	

LFQ intensity P11_2	
LFQ intensity P11_3	
LFQ intensity P12_1	
LFQ intensity P12_2	
LFQ intensity P12_3	
LFQ intensity P141_1	
LFQ intensity P141_2	
LFQ intensity P141_3	
LFQ intensity P142_1	
LFQ intensity P142_2	
LFQ intensity P142_3	
LFQ intensity input_1	
LFQ intensity input_2	
LFQ intensity input_3	

Modification-specific peptides

Name	Separator	Description
Sequence		The identified AA sequence of the peptide.
Modifications		Post-translational modifications contained within the sequence. When no modifications exist, this is set to 'unmodified'.
Mass		Charge corrected mass of the precursor ion.
Mass Fractional Part		The values after the decimal point (ie value - floor(value)).
Protein Groups		IDs of the protein groups to which this peptide belongs.
Proteins		The identifiers of the proteins this particular peptide is associated with.
Gene Names		Names of genes this peptide is associated with.
Protein Names		Names of proteins this peptide is associated with.
Unique (Groups)		When marked with '+', this particular peptide is unique to a single protein group in the proteinGroups file.
Unique (Proteins)		When marked with '+', this particular peptide is unique to a single protein sequence in the fasta file(s).
Acetyl (Protein N-term)		Number of Acetyl (Protein N-term) on this peptide.
Oxidation (M)		Number of Oxidation (M) on this peptide.
Missed cleavages		Number of missed enzymatic cleavages.
Identification type input_1		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type input_2		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type input_3		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P11_1		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P11_2		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P11_3		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P12_1		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P12_2		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P12_3		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P141_1		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P141_2		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P141_3		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P142_1		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P142_2		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P142_3		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Fraction Average		
Fraction Std. Dev.		
Fraction 1		
Fraction 2		
Fraction 3		
Fraction 10		
Experiment input_1		Number of evidence entries for this 'Experiment'.
Experiment input_2		Number of evidence entries for this 'Experiment'.
Experiment input_3		Number of evidence entries for this 'Experiment'.
Experiment P11_1		Number of evidence entries for this 'Experiment'.
Experiment P11_2		Number of evidence entries for this 'Experiment'.
Experiment P11_3		Number of evidence entries for this 'Experiment'.
Experiment P12_1		Number of evidence entries for this 'Experiment'.
Experiment P12_2		Number of evidence entries for this 'Experiment'.
Experiment P12_3		Number of evidence entries for this 'Experiment'.
Experiment P141_1		Number of evidence entries for this 'Experiment'.
Experiment P141_2		Number of evidence entries for this 'Experiment'.

Experiment P141_3	Number of evidence entries for this 'Experiment'.
Experiment P142_1	Number of evidence entries for this 'Experiment'.
Experiment P142_2	Number of evidence entries for this 'Experiment'.
Experiment P142_3	Number of evidence entries for this 'Experiment'.
Retention time	Retention time in minutes averaged over the evidence entries belonging to this modification-specific peptide.
Calibrated retention time	Calibrated retention time averaged over the evidence entries belonging to this modification-specific peptide. Obviously this only makes sense if retention time recalibration has been performed which is the case when matching between run is selected.
Charges	All charge states that have been observed.
PEP	Posterior Error Probability of the identification. This value essentially operates as a p-value, where smaller is more significant.
MS/MS scan number	The RAW-file derived scan number of the MS/MS with the highest peptide identification score (the highest score is stored in the column 'Score').
Raw file	The name of the RAW-file the mass spectral data was derived from.
Score	Andromeda score for the best identified among the associated MS/MS spectra.
Delta score	Score difference to the second best identified peptide.
Reverse	When marked with '+', this particular peptide was found to be part of a protein derived from the reversed part of the decoy database. These should be removed for further data analysis.
Potential contaminant	When marked with '+', this particular peptide was found to be part of a commonly occurring contaminant. These should be removed for further data analysis.
Intensity	Summed up extracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity input_1	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity input_2	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity input_3	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P11_1	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P11_2	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P11_3	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P12_1	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P12_2	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P12_3	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P141_1	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P141_2	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P141_3	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.

Intensity P142_1	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P142_2	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P142_3	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
id	A unique (consecutive) identifier for each row in the peptides table, which is used to cross-link the information in this table with the information stored in the other tables.
Protein group IDs	The identifiers of the protein groups this peptide was linked to, referenced against the proteinGroups table.
Peptide ID	Identifier of the associated peptide sequence summary, which can be found in the file 'peptides.txt'.
Evidence IDs	Identifier(s) for analyzed peptide evidence associated with the protein group referenced against the evidence table.
MS/MS IDs	The identifiers of the MS/MS scans identifying this peptide, referenced against the msms table.
Best MS/MS	The identifier of the best (in terms of quality) MS/MS scan identifying this peptide, referenced against the msms table.
Oxidation (M) site IDs	Identifier(s) for site(s) associated with this peptide, which show(s) evidence of the modification, referenced against the appropriate modification site file.
MS/MS Count	
Taxonomy IDs	Taxonomy identifiers.

Oxidation (M)Sites

Name	Separator	Description
Proteins	- Coparator	Identifiers of proteins this site is associated with.
Positions within proteins		For each protein identifier in the 'Proteins' column you find here the position of the site in the respective protein sequence. The index of the first amino acid in the sequence is 1.
Leading proteins		'
Protein		Identifier of the protein this peptide is associated with.
Protein names		Names of proteins this peptide is associated with.
Gene names		Names of genes this peptide is associated with.
Fasta headers		Descriptions of proteins this peptide is associated with.
Localization prob		2 ccs. prisons of proteins and popular to accordate within
Score diff		
PEP		The posterior error probability (PEP) of the best identified
		modified peptide containing this site.
Score		The Andromeda score of the best identified modified peptide containing this site.
Delta score		The Andromeda delta score of the best identified modified peptide containing this site.
Score for localization		The Andromeda score of the MS/MS spectrum used for calculating the localization score for this site.
Localization prob input_1		
Score diff input_1		
PEP input_1		
Score input_1		
Localization prob input_2		
Score diff input_2		
PEP input_2		
Score input_2		
Localization prob input_3		
Score diff input_3		
PEP input_3		
Score input_3		
Localization prob P11_1		
Score diff P11_1		
PEP P11_1		
Score P11_1		
Localization prob P11_2		
Score diff P11 2		
PEP P11_2		
Score P11_2		
Localization prob P11_3		
Score diff P11 3		
PEP P11_3		
Score P11 3		
Localization prob P12_1		
Score diff P12_1		
PEP P12_1		
Score P12_1		
Localization prob P12_2		
Score diff P12_2		
PEP P12_2		
Score P12_2		
Localization prob P12_3		
Score diff P12_3		
PEP P12_3		
Score P12_3		
Localization prob P141_1		
Score diff P141_1		
PEP P141_1		
Score P141_1		
JUJE F 141_1		

Localization prob P141_2	
Score diff P141_2	
PEP P141_2	
Score P141_2	
Localization prob P141_3 Score diff P141_3	
PEP P141 3	
Score P141_3	
Localization prob P142_1	
Score diff P142 1	
PEP P142 1	
Score P142 1	
Localization prob P142_2	
Score diff P142 2	
PEP P142_2	
Score P142_2	
Localization prob P142_3	
Score diff P142_3	
PEP P142_3	
Score P142_3	
Diagnostic peak	
Number of Oxidation (M)	Different numbers of Oxidation (M) on peptides that this site is involved in.
Amino acid	
Sequence window	
Modification window	
Peptide window coverage	
Oxidation (M) Probabilities	
Oxidation (M) Score diffs	
Position in peptide	
Charge	Charge state of the precursor ion.
Mass error [ppm]	Mass error of the recalibrated mass-over-charge value of the precursor ion in comparison to the predicted monoisotopic mass of the identified peptide sequence.
Identification type input_1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type input_2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type input_3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P11_1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P11_2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P11_3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P12_1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P12_2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P12_3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P141_1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P141_2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P141_3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P142_1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P142_2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P142_3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Intensity	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity1	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.

Intensity2	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity3	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Ratio mod/base	
Intensity input_1	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity input_2	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity input_3	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P11_1	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P11_2	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P11_3	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P12_1	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P12_2	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P12_3	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P141_1	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P141_2	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P141_3	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P142_1	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P142_2	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P142_3	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Ratio mod/base input_1	
Ratio mod/base input_2	
Ratio mod/base input_3	
Ratio mod/base P11_1	
Ratio mod/base P11_2	
Ratio mod/base P11_3	
Ratio mod/base P12_1	
Ratio mod/base P12_2	
Ratio mod/base P12_3	
Ratio mod/base P141_1 Ratio mod/base P141_2	
Ratio mod/base P141_2	
	1

Ratio mod/base P142 1	
Ratio mod/base P142 2	
Ratio mod/base P142_3	
Intensity input_11	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity input_12	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity input_13	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity input_21	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity input_22	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity input_23	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity input_31	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity input_32	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity input_33	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P11_11	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P11_12	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P11_13	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P11_21	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P11_22	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P11_23	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P11_31	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P11_32	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P11_33	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P12_11	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P12_12	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.

Intensity P12_13	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P12_21	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P12_22	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P12_23	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P12_31	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P12_32	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P12_33	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P141_11	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P141_12	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P141_13	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P141_21	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P141_22	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P141_23	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P141_31	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P141_32	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P141_33	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P142_11	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P142_12	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P142_13	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P142_21	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P142_22	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.

Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
When marked with '+', this particular peptide was found to be part of a protein derived from the reversed part of the protein sequence database. These should be removed for further data analysis.
When marked with '+', this particular peptide was found to be part of a commonly occurring contaminant. These should be removed for further data analysis.
A unique (consecutive) identifier for each row in the site table, which is used to cross-link the information in this file with the information stored in the other files.
The identifier of the protein-group this peptide sequence is associated with, which can be used to look up the extended protein information in the file 'proteinGroups.txt'. As a single peptide can be linked to multiple proteins (e.g. in the case of razor-proteins), multiple id's can be stored here separated by a semicolon. As a protein can be identified by multiple peptides, the same id can be found in different rows.
The positions of the modifications in the protein amino acid sequence.
The position of the modification in the protein amino acid sequence.
Identifier(s) of the associated peptide sequence(s) summary, which can be found in the file 'peptides.txt'.
Identifier(s) of the associated peptide sequence(s) summary, which can be found in the file 'modificationSpecificPeptides.txt'.
Identifier(s) for analyzed peptide evidence associated with the protein group referenced against the evidence table.
The identifiers of the MS/MS scans identifying this peptide, referenced against the msms table.

Protein groups

The Protein Groups table contains information about the identified proteins in the processed raw-files. Each row contains refers to a group of proteins that could be reconstructed from a set of peptides.

Name	Separator	Description
Protein IDs		Identifiers of proteins contained in the protein group. They are sorted by number of identified peptides in descending order.
Majority protein IDs		These are the IDs of those proteins that have at least half of the peptides that the leading protein has.
Peptide counts (all)		Number of peptides associated with each protein in protein group, occurring in the order as the protein IDs occur in the 'Protein IDs' column. Here distinct peptide sequences are counted. Modified forms or different charges are counted as one peptide.
Peptide counts (razor+unique)		Number of peptides associated with each protein in protein group, occurring in the order as the protein IDs occur in the 'Protein IDs' column. Here distinct peptide sequences are counted. Modified forms or different charges are counted as one peptide.
Peptide counts (unique)		Number of peptides associated with each protein in protein group, occurring in the order as the protein IDs occur in the 'Protein IDs' column. Here distinct peptide sequences are counted. Modified forms or different charges are counted as one peptide.
Protein names		Names of proteins contained in the group.
Gene names		Names of the genes associated to the proteins contained in the group.
Fasta headers		Fasta headers(s) of protein(s) contained in the group.
Number of proteins		Number of proteins contained within the group. This corresponds to the number of entries in the column 'Protein IDs'.
Peptides		The total number of peptide sequences associated with the protein group (i.e. for all the proteins in the group).
Razor + unique peptides		The total number of razor + unique peptides associated with the protein group (i.e. these peptides are shared with another protein group).
Unique peptides		The total number of unique peptides associated with the protein group (i.e. these peptides are not shared with another protein group).
Peptides input_1		Number of peptides (distinct peptide sequences) in experiment input 1
Peptides input_2		Number of peptides (distinct peptide sequences) in experiment input_2
Peptides input_3		Number of peptides (distinct peptide sequences) in experiment input_3
Peptides P11_1		Number of peptides (distinct peptide sequences) in experiment P11_1
Peptides P11_2		Number of peptides (distinct peptide sequences) in experiment P11_2
Peptides P11_3		Number of peptides (distinct peptide sequences) in experiment P11_3
Peptides P12_1		Number of peptides (distinct peptide sequences) in experiment P12_1
Peptides P12_2		Number of peptides (distinct peptide sequences) in experiment P12_2
Peptides P12_3		Number of peptides (distinct peptide sequences) in experiment P12_3
Peptides P141_1		Number of peptides (distinct peptide sequences) in experiment P141_1
Peptides P141_2		Number of peptides (distinct peptide sequences) in experiment P141_2
Peptides P141_3		Number of peptides (distinct peptide sequences) in experiment P141_3
Peptides P142_1		Number of peptides (distinct peptide sequences) in experiment P142_1
Peptides P142_2		Number of peptides (distinct peptide sequences) in experiment P142_2
Peptides P142_3		Number of peptides (distinct peptide sequences) in experiment P142_3
Razor + unique peptides input_1		Number of razor + unique peptides (distinct peptide sequences) in experiment input_1
Razor + unique peptides input_2		Number of razor + unique peptides (distinct peptide sequences) in experiment input_2

Razor + unique peptides input_3 Razor + unique peptides P11_1 Razor + unique peptides P11_1 Razor + unique peptides P11_2 Razor + unique peptides P11_3 Razor + unique peptides P12_1 Razor + unique peptides P12_2 Razor + unique peptides P12_2 Razor + unique peptides P12_3 Razor + unique peptides P14_1 Razor + unique peptides P14_2 Razor + unique peptides P14_3 Razor + unique peptides P14_3 Razor + unique peptides P14_2 Razor + unique peptides R14_2 Razo	
Razor + unique peptides P11_1 Razor + unique peptides P11_2 Razor + unique peptides P11_2 Razor + unique peptides P11_2 Razor + unique peptides P11_3 Razor + unique peptides P12_1 Razor + unique peptides P12_1 Razor + unique peptides P12_1 Razor + unique peptides P12_2 Razor + unique peptides P12_2 Razor + unique peptides P12_2 Razor + unique peptides P12_3 Razor + unique peptides P14_1 Razor + unique peptides P14_2 Razor + unique peptides R14_2 Razor	
Razor + unique peptides P11_2 Razor + unique peptides P11_3 Razor + unique peptides P11_3 Razor + unique peptides P12_1 Razor + unique peptides P12_2 Razor + unique peptides P12_2 Razor + unique peptides P12_2 Razor + unique peptides P12_3 Razor + unique peptides P12_1 Razor + unique peptides P14_1 Razor + unique peptides P14_2 Razor + unique peptides R14_3 Razor	
Razor + unique peptides P11_3 Razor + unique peptides (distinct peptide sequences) in experiment P11_3 Razor + unique peptides P12_1 Razor + unique peptides P12_2 Razor + unique peptides P12_2 Razor + unique peptides P12_3 Razor + unique peptides P12_3 Razor + unique peptides (distinct peptide sequences) in experiment P12_3 Razor + unique peptides P141_1 Razor + unique peptides P141_2 Razor + unique peptides P141_3 Razor + unique peptides P141_3 Razor + unique peptides P141_3 Razor + unique peptides P142_1 Razor + unique peptides P142_2 Razor + unique peptides R142_2 Razor + unique peptides (distinct peptide sequences) in experiment P142_3 Razor + unique peptides (distinct peptide sequences) in experiment P142_1 Razor + unique peptides P142_2 Razor + unique peptides (distinct peptide sequences) in experiment P142_3 Razor + unique peptides (distinct peptide sequences) in experiment P142_3 Razor + unique peptides (distinct peptide sequences) in experiment P142_3 Razor + unique peptides (distinct peptide sequences) in experiment P142_3 Razor + unique peptides R142_3 Razor	
Razor + unique peptides P12_1 Razor + unique peptides (distinct peptide sequences) in experiment P12_1 Razor + unique peptides P12_2 Razor + unique peptides P12_3 Razor + unique peptides P12_3 Razor + unique peptides P14_1 Razor + unique peptides P141_2 Razor + unique peptides P141_2 Razor + unique peptides P141_2 Razor + unique peptides P141_3 Razor + unique peptides P142_1 Razor + unique peptides P142_1 Razor + unique peptides P142_2 Razor + unique peptides P142_2 Razor + unique peptides P142_3 Razor + unique peptides R142_3 Razor + unique Peptides R142_	
Razor + unique peptides P12_2 Razor + unique peptides (distinct peptide sequences) in experiment P12_2 Razor + unique peptides P14_1 Razor + unique peptides P141_1 Razor + unique peptides P141_2 Razor + unique peptides P141_2 Razor + unique peptides P141_2 Razor + unique peptides P141_3 Razor + unique peptides P141_3 Razor + unique peptides P141_3 Razor + unique peptides P142_1 Razor + unique peptides P142_1 Razor + unique peptides P142_1 Razor + unique peptides P142_2 Razor + unique peptides P142_2 Razor + unique peptides P142_3 Razor + unique peptides R142_3 Razor + unique peptides R141_3 Razor + unique peptides R141_3 Razor + unique peptides R141_3 Razor + unique P142_3 Razor + un	
Razor + unique peptides P12_3 Razor + unique peptides P141_1 Razor + unique peptides P141_2 Razor + unique peptides P141_3 Razor + unique peptides P141_3 Razor + unique peptides P141_3 Razor + unique peptides P142_1 Razor + unique peptides P142_1 Razor + unique peptides P142_1 Razor + unique peptides P142_2 Razor + unique peptides P142_2 Razor + unique peptides P142_2 Razor + unique peptides P142_3 Razor + unique peptides Razor + unique peptides (distinct peptide sequences) in experiment P142_1 Razor + unique peptides P142_3 Razor + unique peptides (distinct peptide sequences) in experiment P142_1 Razor + unique peptides P142_3 Razor + unique peptides (distinct peptide sequences) in experiment P142_1 Razor + unique peptides Razor + unique peptides (distinct peptide sequences) in experiment P142_1 Razor + unique peptides Razor + unique peptides (distinct peptide sequences) in experiment P142_1 Razor + unique peptides Razor + unique peptides (distinct peptide sequences) in experiment P142_1 Razor + unique peptides Razor + unique peptides (distinct peptide sequences) in experiment P142_1 Razor + unique peptides Razor + unique peptides (distinct peptide sequence experiment Razor + unique peptides (distinct peptide sequence experiment P141_1 Razor + unique peptides Razor + unique peptides (distinct peptide sequence experiment P11_1 Razor + unique peptides Razor + unique peptides (distinct peptide sequence experiment P11_1 Razor + unique peptides Razor + unique peptides (distinct peptide sequence experiment P11_1 Razor + unique peptides Razor + unique peptides (distinct peptide sequence experiment P14_1 Razor + unique peptides Razor + unique peptides (distinct peptide sequence experiment P14_2 + unique peptides Razor + unique P14_2 + unique P1	
Razor + unique peptides P141_1 Razor + unique peptides P141_2 Razor + unique peptides P141_2 Razor + unique peptides P141_3 Razor + unique peptides P142_1 Razor + unique peptides P142_2 Razor + unique peptides P142_2 Razor + unique peptides P142_3 Razor + unique peptides Razor + unique peptides (distinct peptide sequences) in experiment P142_2 Razor + unique peptides Razor + unique peptides (distinct peptide sequences) in experiment P142_2 Razor + unique peptides Razor + unique peptides (distinct peptide sequences) in experiment P142_2 Razor + unique peptides Razor + unique peptides (distinct peptide sequence experiment input_3 Razor + unique peptides Razor + unique peptides (distinct peptide sequence experiment P142_2 Razor + unique peptides Razor + unique peptides (distinct peptide sequence experiment P141_1 Razor + unique peptides Razor + unique peptides (distinct peptide sequence experiment P141_1 Razor + unique peptides Razor + unique peptides (distinct peptide sequence experiment P141_1 Razor + unique peptides Razor + unique peptides (distinct peptide sequence experiment P11_1 Razor + unique peptides Razor + unique peptides (distinct peptide sequence experiment P11_1 Razor + unique peptides Razor + unique peptides (distinct peptide sequence experiment P11_1 Razor + unique peptides Razor + unique peptides (distinct peptide sequence experiment P11_2 Razor + unique peptides Razor + unique peptides (distinct peptide sequence experiment P11_2 Razor + unique peptides Razor + unique peptides (distinct peptide sequence experiment P12_2 Razor + unique peptides Razor + unique peptides (distinct peptide sequence experiment P12_3 Razor + unique peptides Razor + unique peptides (dist	
Razor + unique peptides P141_2 Razor + unique peptides (distinct peptide sequences) in experiment P141_2 Razor + unique peptides P142_1 Razor + unique peptides P142_1 Razor + unique peptides P142_1 Razor + unique peptides P142_2 Razor + unique peptides P142_2 Razor + unique peptides P142_2 Razor + unique peptides P142_3 Razor + unique peptides (distinct peptide sequences) in experiment P142_2 Razor + unique peptides P142_3 Razor + unique peptides (distinct peptide sequences) in experiment P142_3 Razor + unique peptides (distinct peptide sequences) in experiment P142_3 Razor + unique peptides (distinct peptide sequences) in experiment P142_3 Razor + unique peptides (distinct peptide sequence experiment input_1 Razor + unique peptides (distinct peptide sequence experiment P142_3 Razor + unique peptides (distinct peptide sequence experiment P142_3 Razor + unique peptides (distinct peptide sequence experiment P11_1 Razor + unique peptides (distinct peptide sequence experiment P11_1 Razor + unique peptides (distinct peptide sequence experiment P11_1 Razor + unique peptides (distinct peptide sequence experiment P11_1 Razor + unique peptides (distinct peptide sequence experiment P11_2 Razor + unique peptides (distinct peptide sequence experiment P11_2 Razor + unique peptides (distinct peptide sequence experiment P12_1 Razor + unique peptides (distinct peptide sequence experiment P12_2 Razor + unique peptides (distinct peptide sequence experiment P12_2 Razor + unique peptides (distinct peptide sequence experiment P12_2 Razor + unique peptides (distinct peptide sequence experiment P14_2 Razor + unique peptides (distinct peptide sequence experiment P14_2 Razor + unique peptides (distinct peptide sequence experiment P142_3 Razor + unique peptides (distinct peptide sequence exper	
Razor + unique peptides P141_3 Razor + unique peptides P142_1 Razor + unique peptides P142_1 Razor + unique peptides P142_2 Razor + unique peptides P142_2 Razor + unique peptides P142_2 Razor + unique peptides P142_3 Razor + unique peptides Razor + unique peptides (distinct peptide sequences) in experiment P142_3 Razor + unique peptides Razor + unique peptides (distinct peptide sequences) in experiment P142_3 Razor + unique peptides Razor + unique peptides (distinct peptide sequence sexperiment Input_1 Razor + unique peptides Razor + unique Paptides R	
Razor + unique peptides P142_1 Razor + unique peptides P142_2 Razor + unique peptides P142_2 Razor + unique peptides P142_2 Razor + unique peptides P142_3 Razor + unique peptides P142_3 Razor + unique peptides P142_3 Number of razor + unique peptides (distinct peptide sequences) in experiment P142_2 Unique peptides input_1 Unique peptides input_2 Unique peptides input_2 Unique peptides input_3 Unique peptides input_3 Unique peptides P11_1 Unique peptides P11_1 Unique peptides P11_2 Unique peptides P11_2 Unique peptides P11_2 Unique peptides P11_3 Unique peptides P11_3 Unique peptides P12_1 Unique peptides P12_1 Unique peptides P12_1 Unique peptides P12_2 Unique peptides P12_2 Unique peptides P12_3 Unique peptides P12_3 Unique peptides P12_3 Unique peptides P14_1 Unique peptides P14_2 Unique peptides P14_1 Unique peptides P14_2 Unique peptides P14_3 Unique peptides P14_2 Unique peptides P14_3 Unique peptides P14_2 Unique peptides P14_3 Unique peptides P14_2 Unique peptides P14_3 Un	
Razor + unique peptides P142_2 Razor + unique peptides P142_3 Razor + unique peptides P142_3 Number of razor + unique peptides (distinct peptide sequences) in experiment P142_2 Unique peptides input_1 Unique peptides input_2 Unique peptides input_2 Unique peptides input_3 Number of unique peptides (distinct peptide sequence experiment input_1 Unique peptides input_3 Unique peptides P11_1 Number of unique peptides (distinct peptide sequence experiment input_2 Unique peptides P11_1 Unique peptides P11_2 Unique peptides P11_2 Unique peptides P11_3 Unique peptides P11_3 Unique peptides P12_1 Unique peptides P12_1 Unique peptides P12_1 Unique peptides P12_2 Unique peptides P12_2 Unique peptides P12_2 Unique peptides P12_3 Unique peptides P12_3 Unique peptides P12_3 Unique peptides P14_1 Unique peptides P14_1 Unique peptides P14_1 Unique peptides P14_1 Unique peptides P14_2 Unique peptides P14_3 Unique peptides P14_2 Unique peptides P14_3 Unique peptides P14_2 Unique peptides P14_3	
Razor + unique peptides P142_3 Unique peptides input_1 Unique peptides input_1 Unique peptides input_2 Unique peptides input_2 Unique peptides input_3 Number of unique peptides (distinct peptide sequence experiment input_1 Unique peptides input_3 Number of unique peptides (distinct peptide sequence experiment input_3 Unique peptides P11_1 Unique peptides P11_1 Unique peptides P11_2 Unique peptides P11_2 Unique peptides P11_3 Unique peptides P12_1 Unique peptides P12_1 Unique peptides P12_2 Unique peptides P12_2 Unique peptides P12_3 Unique peptides P12_3 Unique peptides P14_1 Unique peptides P14_1 Unique peptides P14_2 Unique peptides P14_3 Number of unique peptides (distinct peptide sequence experiment P14_1 Unique peptides P14_2 Unique peptides P14_2 Unique peptides P14_2 Unique peptides P14_2 Unique peptides P14_3 Number of unique peptides (distinct peptide sequence experiment P14_2 Unique peptides P14_3 Number of unique peptides (distinct peptide sequence experiment P14_2 Unique peptides P14_2 Unique pep	
Unique peptides input_1 Unique peptides input_2 Unique peptides input_2 Unique peptides input_3 Unique peptides P11_1 Unique peptides P11_1 Unique peptides P11_2 Unique peptides P11_2 Unique peptides P11_3 Unique peptides P11_3 Unique peptides P12_1 Unique peptides P12_1 Unique peptides P12_2 Unique peptides P12_2 Unique peptides P12_2 Unique peptides P12_3 Unique peptides P12_3 Unique peptides P14_1 Unique peptides P14_2 Unique peptides P14_2 Unique peptides P14_2 Unique peptides P14_3 Unique peptides P14_1 Unique peptides P14_1 Unique peptides P14_2 Unique peptides P14_1 Unique peptides P14_2 Unique peptides P14_2 Unique peptides P14_2 Unique peptides P14_2 Unique peptides P14_3 Unique peptides P14_2 Unique peptides P14_3 Unique peptides P14_2 Unique peptides P14_3 Unique peptides P14_2 Unique peptides P14_3 Percentage of the sequence that is covered by the ide peptides of the best protein sequence contained in the pertites of the best protein sequence contained in the peptides of the best protein sequence contained in the pertites of the best protein sequence contained in the pertites of the best protein sequence contained in the pertites of the best protein sequence contained in the pertites of the best protein sequence contained in the pertites of the best protein sequence contained group. The length of the leading protein sequ	
Unique peptides input_2 Number of unique peptides (distinct peptide sequence experiment input_2) Number of unique peptides (distinct peptide sequence experiment input_2) Number of unique peptides (distinct peptide sequence experiment P11_1 Unique peptides P11_1 Unique peptides P11_2 Number of unique peptides (distinct peptide sequence experiment P11_1 Number of unique peptides (distinct peptide sequence experiment P11_2 Number of unique peptides (distinct peptide sequence experiment P11_3 Unique peptides P12_1 Unique peptides P12_1 Unique peptides P12_2 Unique peptides P12_2 Unique peptides P12_3 Unique peptides P12_3 Unique peptides P12_3 Unique peptides P14_1 Unique peptides P14_1 Unique peptides P141_1 Unique peptides P141_2 Unique peptides P141_2 Unique peptides P141_3 Unique peptides P141_3 Unique peptides P141_3 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_2 Unique peptides P142_3 Number of unique peptides (distinct peptide sequence experiment P141_3) Unique peptides P142_1 Unique peptides P142_2 Unique peptides P142_3 Number of unique peptides (distinct peptide sequence experiment P142_1 Number of unique peptides (distinct peptide sequence experiment P142_3 Unique peptides P142_3 Number of unique peptides (distinct peptide sequence experiment P142_3 Sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence contained in the group. Unique sequence length Molecular weight of the leading protein sequ	es) in
Unique peptides input_3 Number of unique peptides (distinct peptide sequence experiment input_3 Number of unique peptides (distinct peptide sequence experiment P11_1 Unique peptides P11_2 Unique peptides P11_3 Number of unique peptides (distinct peptide sequence experiment P11_2 Unique peptides P11_3 Number of unique peptides (distinct peptide sequence experiment P11_3 Unique peptides P12_1 Unique peptides P12_2 Unique peptides P12_2 Unique peptides P12_3 Unique peptides P12_3 Unique peptides P14_1 Unique peptides P14_1 Unique peptides P14_1 Unique peptides P141_1 Unique peptides P141_2 Unique peptides P141_2 Unique peptides P141_3 Unique peptides P141_3 Unique peptides P141_3 Unique peptides P141_3 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_2 Unique peptides P142_1 Unique peptides P142_2 Unique peptides P142_3 Number of unique peptides (distinct peptide sequence experiment P142_1 Unique peptides P142_3 Unique peptides P142_3 Number of unique peptides (distinct peptide sequence experiment P142_1 Unique peptides P142_3 Number of unique peptides (distinct peptide sequence experiment P142_3 Sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the Group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence contained in the group. Unique sequence toverage [%] Percentage of the sequence that is covered by the	es) in
Unique peptides P11_1 Unique peptides P11_2 Unique peptides P11_2 Unique peptides P11_3 Unique peptides P11_3 Unique peptides P12_1 Unique peptides P12_1 Unique peptides P12_1 Unique peptides P12_2 Unique peptides P12_2 Unique peptides P12_2 Unique peptides P12_3 Unique peptides P12_3 Unique peptides P14_1 Unique peptides P14_1 Unique peptides P14_2 Unique peptides P14_3 Unique peptides P14_3 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_2 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_2 Unique peptides P142_2 Unique peptides P142_3 Sequence coverage [%] Percentage of the sequence that is covered by the ide peptides equence experiment P142_3 Unique sequence coverage [%] Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence contained in the group. Unique sequence length The length of the leading protein sequence contained group.	es) in
Unique peptides P11_2 Unique peptides P11_3 Unique peptides P11_3 Unique peptides P12_1 Unique peptides P12_1 Unique peptides P12_2 Unique peptides P12_2 Unique peptides P12_3 Unique peptides P12_3 Unique peptides P14_1 Unique peptides P14_2 Unique peptides P14_3 Unique peptides P14_3 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_2 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_2 Unique peptides P142_2 Unique peptides P142_2 Unique peptides P142_3 Unique peptides P142_3 Sequence coverage [%] Percentage of the sequence that is covered by the ide peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the i	es) in
Unique peptides P11_3 Unique peptides P12_1 Unique peptides P12_1 Unique peptides P12_2 Unique peptides P12_2 Unique peptides P12_3 Unique peptides P12_3 Unique peptides P14_1 Unique peptides P14_1 Unique peptides P14_1 Unique peptides P14_2 Unique peptides P14_2 Unique peptides P14_2 Unique peptides P14_2 Unique peptides P141_2 Unique peptides P141_2 Unique peptides P141_3 Unique peptides P141_3 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_2 Unique peptides P142_1 Unique peptides P142_2 Unique peptides P142_3 Sequence coverage [%] Percentage of the sequence that is covered by the ide unique sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique sequence unique sequence contained in the group. The length of the leading protein sequence contained group.	es) in
Unique peptides P12_1 Unique peptides P12_2 Unique peptides P12_3 Unique peptides P12_3 Unique peptides P141_1 Unique peptides P141_1 Unique peptides P141_2 Unique peptides P141_2 Unique peptides P141_2 Unique peptides P141_3 Unique peptides P141_3 Unique peptides P142_1 Unique peptides P142_2 Unique peptides P142_2 Unique peptides P142_2 Unique peptides P142_3 Unique peptides P142_3 Unique peptides P142_3 Unique peptides P142_3 Equence coverage [%] Percentage of the sequence that is covered by the ide peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide peptides of the best protein sequence contained in the group. Unique sequence coverage [%] The length of the leading protein sequence contained group.	es) in
Unique peptides P12_2 Unique peptides P12_3 Unique peptides P141_1 Unique peptides P141_1 Unique peptides P141_2 Unique peptides P141_2 Unique peptides P141_2 Unique peptides P141_3 Unique peptides P141_3 Unique peptides P142_1 Unique peptides P142_2 Unique peptides P142_2 Unique peptides P142_3 Unique peptides P142_3 Unique peptides P142_3 Sequence coverage [%] Percentage of the sequence that is covered by the ide unique sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Sequence length Mol. weight [kDa] The length of the leading protein sequence contained group.	es) in
Unique peptides P12_3 Unique peptides P141_1 Unique peptides P141_2 Unique peptides P141_2 Unique peptides P141_2 Unique peptides P141_3 Unique peptides P141_3 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_2 Unique peptides P142_2 Unique peptides P142_2 Unique peptides P142_3 Unique peptides P142_3 Sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence contained in the group. Sequence length The length of the leading protein sequence contained group.	es) in
Unique peptides P141_1 Unique peptides P141_2 Unique peptides P141_2 Unique peptides P141_3 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_2 Unique peptides P142_2 Unique peptides P142_2 Unique peptides P142_3 Sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Mol. weight [kDa] Molecular weight of the leading protein sequence contained group. The length of the leading protein sequence contained group.	es) in
Unique peptides P141_2 Unique peptides P141_3 Unique peptides P141_3 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_2 Unique peptides P142_2 Unique peptides P142_2 Unique peptides P142_3 Sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Mole cular weight [kDa] Number of unique peptides (distinct peptide sequence experiment P142_3 Number of unique peptides (distinct peptide sequence experiment P142_2 Number of unique peptides (distinct peptide sequence experiment P142_2 Number of unique peptides (distinct peptide sequence experiment P142_2 Number of unique peptides (distinct peptide sequence experiment P142_2 Number of unique peptides (distinct peptide sequence experiment P142_1 Number of unique peptides (distinct peptide sequence experiment P142_1 Number of unique peptides (distinct peptide sequence experiment P142_1 Number of unique peptides (distinct peptide sequence experiment P142_1 Number of unique peptides (distinct peptide sequence experiment P142_1 Number of unique peptides (distinct peptide sequence experiment P142_1 Number of unique peptides (distinct peptide sequence experiment P142_1 Number of unique peptides (distinct peptide sequence experiment P142_1 Number of unique peptides (distinct peptide sequence experiment P142_1 Number of unique peptides (distinct peptide sequence experiment P142_1 Number of unique peptides (distinct peptide sequence experiment P142_1 Number of unique peptides (distinct peptide sequence experiment P142_1 Number of unique peptides (distinct peptide sequence experiment P142_1 Number of unique peptides (distinct peptide sequence experiment P142_1 Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained unique peptides of the best protein sequence contained unique peptides (distinct peptides (distinct peptide	es) in
Unique peptides P141_3 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_1 Unique peptides P142_2 Unique peptides P142_2 Unique peptides P142_2 Unique peptides P142_3 Sequence coverage [%] Unique + razor sequence coverage [%] Unique sequence coverage [%] Unique sequence coverage [%] Unique sequence coverage [%] Unique + razor sequence coverage [%] Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence contained in the group. Mol. weight [kDa] Molecular weight of the leading protein sequence contained group. The length of the leading protein sequence contained group.	es) in
Unique peptides P142_1 Unique peptides P142_2 Unique peptides P142_2 Unique peptides P142_3 Sequence coverage [%] Unique + razor sequence coverage [%] Unique sequence coverage [%] Unique sequence coverage [%] Unique + razor sequence coverage [%] Unique sequence coverage [%] Unique sequence coverage [%] Dercentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Mol. weight [kDa] Molecular weight of the leading protein sequence contained group. Sequence length The length of the leading protein sequence contained group.	es) in
Unique peptides P142_2 Unique peptides P142_3 Number of unique peptides (distinct peptide sequence experiment P142_2 Number of unique peptides (distinct peptide sequence experiment P142_3 Sequence coverage [%] Percentage of the sequence that is covered by the ide peptides of the first protein sequence contained in the Unique + razor sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence contained of the best protein sequence contained group. Mol. weight [kDa] Molecular weight of the leading protein sequence contained group. The length of the leading protein sequence contained group.	es) in
Unique peptides P142_3 Sequence coverage [%] Percentage of the sequence that is covered by the ide peptides of the first protein sequence contained in the Unique + razor sequence coverage [%] Unique + razor sequence coverage Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique sequence coverage of the sequence that is covered by the ide unique peptides of the best protein sequence contained group. Mol. weight [kDa] Molecular weight of the leading protein sequence contained group. Sequence length The length of the leading protein sequence contained group.	s) in
Sequence coverage [%] Percentage of the sequence that is covered by the ide peptides of the first protein sequence contained in the Unique + razor sequence coverage [%] Unique + razor sequence coverage [%] Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence contained group. Mol. weight [kDa] Molecular weight of the leading protein sequence contained group. Sequence length The length of the leading protein sequence contained group.	es) in
Unique + razor sequence coverage [%] Unique sequence coverage [%] Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique and razor peptides of the best protein sequence contained in the group. Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence contained group. Mol. weight [kDa] Molecular weight of the leading protein sequence contained group. Sequence length The length of the leading protein sequence contained group.	entified
Unique sequence coverage [%] Percentage of the sequence that is covered by the ide unique peptides of the best protein sequence containing group. Mol. weight [kDa] Molecular weight of the leading protein sequence containing group. Sequence length The length of the leading protein sequence contained group.	entified
Mol. weight [kDa] Molecular weight of the leading protein sequence contained group. Molecular weight of the leading protein sequence contained group.	
Sequence length The length of the leading protein sequence contained group.	tained in
	in the
Sequence lengths The length of all sequences of the proteins contained group.	in the
Fraction average	
Fraction 1	
Fraction 2	
Fraction 3	
Fraction 10	
Q-value This is the ratio of reverse to forward protein groups.	

Score	Protein score which is derived from peptide posterior error probabilities.
Identification type input_1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type input_2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type input_3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P11_1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P11_2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P11_3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P12_1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P12_2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P12_3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P141_1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P141_2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P141_3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P142_1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P142_2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type P142_3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Sequence coverage input_1 [%]	Percentage of the sequence that is covered by the identified peptides in this sample of the longest protein sequence contained within the group.
Sequence coverage input_2 [%]	Percentage of the sequence that is covered by the identified peptides in this sample of the longest protein sequence contained within the group.
Sequence coverage input_3 [%]	Percentage of the sequence that is covered by the identified peptides in this sample of the longest protein sequence contained within the group.
Sequence coverage P11_1 [%]	Percentage of the sequence that is covered by the identified peptides in this sample of the longest protein sequence contained within the group.
Sequence coverage P11_2 [%]	Percentage of the sequence that is covered by the identified peptides in this sample of the longest protein sequence contained within the group.
Sequence coverage P11_3 [%]	Percentage of the sequence that is covered by the identified peptides in this sample of the longest protein sequence contained within the group.
Sequence coverage P12_1 [%]	Percentage of the sequence that is covered by the identified peptides in this sample of the longest protein sequence contained within the group.
Sequence coverage P12_2 [%]	Percentage of the sequence that is covered by the identified peptides in this sample of the longest protein sequence contained within the group.
Sequence coverage P12_3 [%]	Percentage of the sequence that is covered by the identified peptides in this sample of the longest protein sequence contained within the group.
Sequence coverage P141_1 [%]	Percentage of the sequence that is covered by the identified peptides in this sample of the longest protein sequence contained within the group.
Sequence coverage P141_2 [%]	Percentage of the sequence that is covered by the identified peptides in this sample of the longest protein sequence contained within the group.
Sequence coverage P141_3 [%]	Percentage of the sequence that is covered by the identified peptides in this sample of the longest protein sequence contained within the group.
Sequence coverage P142_1 [%]	Percentage of the sequence that is covered by the identified peptides in this sample of the longest protein sequence contained within the group.
Sequence coverage P142_2 [%]	Percentage of the sequence that is covered by the identified peptides in this sample of the longest protein sequence contained within the group.
Sequence coverage P142_3 [%]	Percentage of the sequence that is covered by the identified peptides in this sample of the longest protein sequence contained within the group.

Intensity	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity input_1	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity input_2	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity input_3	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P11_1	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P11_2	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P11_3	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P12_1	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P12_2	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P12_3	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P141_1	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P141_2	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P141_3	Summed up extracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P142_1	Summed up extracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P142_2	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensity P142_3	Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
iBAQ peptides	
iBAQ	
iBAQ input_1	
iBAQ input_2	
iBAQ input_3	<u> </u>
iBAQ P11_1	
iBAQ P11_2 iBAQ P11_3	
iBAQ P12_1	1
iBAQ P12_2	
iBAQ P12_3	
iBAQ P141_1	
iBAQ P141_2	
iBAQ P141_3	
iBAQ P142_1	1
iBAQ P142_2	

ISAND PILE	:DAO D442 2	
LFO intensity P11 3 LFO intensity P12 1 LFO intensity P12 1 LFO intensity P12 2 LFO intensity P12 3 LFO intensity P14 1 LFO intensity P14 2 LFO intensity P14 2 LFO intensity P14 3 LFO intensity P14 2 LFO intensity P14 3 LFO intensity Input 1 LFO intensity input 2 LFO intensity input 2 LFO intensity input 3 LFO intensity input 3 LFO intensity input 3 LFO intensity input 4 LFO intensity input 3 LFO intensity input 3 LFO intensity input 4 LFO intensity input 3 LFO intensity input 4 LFO intensity input 5 LFO intensity input 6 LFO intensity input 7 LFO intensity input 8 LFO intensity input 9 LFO intensity input 9 LFO intensity input 1 LFO intensity input 1 LFO intensity input 2 LFO intensity input 3 LFO intensity input 3 LFO intensity input 3 LFO intensity input 4 LFO intensity input 5 LFO intensity input 6 LFO intensity input 7 LFO intensity input 8 LFO intensity input 9 LFO	iBAQ P142_3	
LFQ intensity P11 3	, <u> </u>	
LFQ intensity P12_1 LFQ intensity P12_3 LFQ intensity P14_1 LFQ intensity P14_2 LFQ intensity inpu_1 LFQ intensity	, <u> </u>	
LFO intensity P12.3 LFO intensity P12.3 LFO intensity P141.1 LFO intensity P141.2 LFO intensity P141.3 LFO intensity P142.1 LFO intensity P142.2 LFO intensity P142.2 LFO intensity P142.2 LFO intensity P142.3 LFO intensity input.3 LFO	, <u> </u>	
LFO intensity P141_1 LFO intensity P141_1 LFO intensity P141_3 LFO intensity P142_2 LFO intensity P142_2 LFO intensity P142_2 LFO intensity P142_2 LFO intensity P142_3 MS/MS count P11_1 MS/MS count P11_1 MS/MS count P11_2 MS/MS count P12_1 MS/MS count P14_1 MS/MS count P14_1 MS/MS count P14_1 MS/MS count P14_2 MS/MS count P14_3 MS/MS count P14_3 MS/MS count P14_3 LFO intensity input_1 LFO intensity input_1 LFO intensity input_2 LFO intensity input_3 MS/MS count input_4 MS/MS count input_5 MS/MS count input_5 MS/MS count input_6 MS/MS count input_6 MS/MS count input_7	, <u> </u>	
LFO intensity P141 1 LFO intensity P141 2 LFO intensity P142 1 LFO intensity P142 1 LFO intensity P142 2 LFO intensity P142 2 LFO intensity P142 3 MS/MS count P11 1 MS/MS count P11 1 MS/MS count P12 1 MS/MS count P12 1 MS/MS count P12 1 MS/MS count P12 1 MS/MS count P14 1 MS/MS count P14 2 MS/MS cou	, <u> </u>	
LFQ intensity P141_2 LFQ intensity P142_1 LFQ intensity P142_2 LFQ intensity P142_2 LFQ intensity P142_2 LFQ intensity P142_2 LFQ intensity P142_3 LFQ intensity P142_3 LFQ intensity P142_3 MS/MS count P11_1 MS/MS count P11_2 MS/MS count P11_2 MS/MS count P12_1 MS/MS count P14_1 MS/MS count P14_2 MS/MS count P14_3 MS/MS count p14_4 MS/MS count p14_4 MS/MS count p14_5 MS/MS count p14_5 MS/MS count p14_5 MS/MS count p14_6 MS/	LFQ intensity P12_3	
LFQ intensity P141_3 LFQ intensity P142_1 LFQ intensity P142_2 LFQ intensity P142_3 MS/MS count P11_1 MS/MS count P11_2 MS/MS count P11_3 MS/MS count P12_3 MS/MS count P12_3 MS/MS count P12_3 MS/MS count P14_1 MS/MS count P14_1 MS/MS count P14_2 MS/MS count P14_1 MS/MS count P14_2 MS/MS count P14_3 MS/MS count P14_2 MS/MS count P14_3 MS/MS count P14_3 MS/MS count P14_3 MS/MS count P14_3 MS/MS count P14_2 MS/MS count P14_3 MS/MS count P14_2 MS/MS count P14_3 LFQ intensity input_1 LFQ intensity input_1 LFQ intensity input_2 MS/MS count input_3 MS/MS count input_4 MS/MS count input_5 MS/MS count input_5 MS/MS count input_5 MS/MS count input_6 MS/MS count input_7 MS/MS/	LFQ intensity P141_1	
LFQ intensity P142_1 LFQ intensity P142_2 LFQ intensity P142_3 MS/MS count P11_1 MS/MS count P11_2 MS/MS count P12_1 MS/MS count P12_1 MS/MS count P12_3 MS/MS count P12_3 MS/MS count P14_1 MS/MS count P14_3 MS/MS count P14_1 MS/MS count P14_3 MS/MS count P14_1 MS/MS count P14_2 MS/MS count P14_2 MS/MS count P14_3 MS/MS count P14_3 MS/MS count P14_3 LFQ intensity input_1 LFQ intensity input_1 LFQ intensity input_3 MS/MS count input_2 MS/MS count input_2 MS/MS count input_2 MS/MS count input_3 MS/MS count input_4 MS/MS count input_5 MS/MS count input_5 MS/MS count input_5 MS/MS count input_6 MS/MS count input_7 MS/MS count input_7 MS/MS count input_8 MS/MS count input_9 MS/MS	LFQ intensity P141_2	
LFQ intensity P142_2 LFQ intensity P142_3 LFQ intensity P142_3 MSMS count P11_1 MSMS count P11_2 MSMS count P11_3 MSMS count P12_1 MSMS count P12_2 MSMS count P12_3 MSMS count P12_3 MSMS count P14_1 MSMS count P14_2 MSMS count P14_2 MSMS count P14_2 MSMS count P14_3 LFQ intensity input_1 LFQ intensity input_1 LFQ intensity input_1 MSMS count input_2 MSMS count input_3 MSMS count input_3 MSMS count input_3 MSMS count input_4 MSMS count input_5 MSMS count input_6 MSMS count input_7 Peptide sequences Peptide sequences Peptide sequences Peptide design count p14_2 Peptide sequences sequences selected peptides sequences selected peptides sequences selected peptides sequences selected peptides sequences selected sequences selected peptides sequences selected sequences	LFQ intensity P141_3	
LFQ intensity P142_3 MS/MS count P11_1 MS/MS count P11_3 MS/MS count P12_1 MS/MS count P12_1 MS/MS count P12_3 MS/MS count P12_3 MS/MS count P14_1 MS/MS count P14_1 MS/MS count P14_1 MS/MS count P14_2 MS/MS count P14_3 MS/MS count P14_3 MS/MS count P14_2 MS/MS count P14_2 MS/MS count P14_2 MS/MS count input_1 LFQ intensity input_2 LFQ intensity input_3 MS/MS count input_2 MS/MS count input_2 MS/MS count input_2 MS/MS count input_3 MS/MS count input_3 MS/MS count input_4 MS/MS count input_5 MS/MS count input_6 MS/MS count input_7 MS/MS count input_7 MS/MS count input_8 MS/MS count input_9 MS/MS count input_1 MS/MS count input_1 MS/MS count input_1 MS/MS count input_2 MS/MS count input_3 MS/MS count input_3 MS/MS count input_4 MS/MS count input_5 MS/MS count input_6 MS/MS count input_7 MS/MS count input_7 MS/MS count input_7 MS/MS count input_8 MS/MS count input_9	LFQ intensity P142_1	
MS/MS count P11_1 MS/MS count P12_1 MS/MS count P14_1 MS/MS count P14_2 MS/MS count p14_3 LFQ intensity input_1 LFQ intensity input_1 LFQ intensity input_2 LFQ intensity input_3 MS/MS count input_4 MS/MS count input_4 MS/MS count input_5 MS/MS count input_5 MS/MS count input_6 MS/MS count input_6 MS/MS count input_6 MS/MS count input_6 MS/MS count input_7 MS/MS count input_6 MS/MS co	LFQ intensity P142_2	
MS/MS count P11_2 MS/MS count P12_2 MS/MS count P12_2 MS/MS count P14_2 MS/MS count P141_1 MS/MS count P141_2 MS/MS count P142_2 MS/MS count P142_2 MS/MS count P142_2 MS/MS count P142_2 MS/MS count P142_3 LFQ intensity input_3 LFQ intensity input_1 LFQ intensity input_3 MS/MS count input_4 MS/MS count input_5 MS/MS count input_6 MS/MS count input_7 MS/MS count input_7 MS/MS count input_7 MS/MS count input_7 MS/MS count input_8 MS/MS count input_9	LFQ intensity P142_3	
MS/MS count P12_1 MS/MS count P12_2 MS/MS count P14_3 MS/MS count P14_3 MS/MS count P141_1 MS/MS count P141_2 MS/MS count P141_3 MS/MS count P141_3 MS/MS count P142_1 MS/MS count P142_1 MS/MS count P142_2 MS/MS count P142_2 MS/MS count P142_2 MS/MS count P142_2 MS/MS count P142_3 LFQ intensity input_1 LFG intensity input_1 LFG intensity input_3 MS/MS count input_4 MS/MS count input_5 MS/MS count input_5 Peptide sequences Peptide sequences belonging to this protein group was identified only by a rediffication site. When marked with '+', this particular protein group contains no protein, made up of at least 50% of the peptides of the leading protein, with a peptide derived from the reverse part of the decoy database. These should be removed for the flat analysis. The 50% rule is in place to prevent spurious protein hits or ernoeusly flag the protein group as reverse and the decoy database. These should be removed for the flat analysis. The 50% rule is in place to prevent spurious protein hits or ernoeusly flag the protein group as reverse analysis. The 50% rule is in place to prevent spurious protein hits or ernoeusly flag the protein group as reverse analysis. The flag flag the protein group as reverse analysis. The flag flag the protein group as reverse analysis. The flag flag the protein group as reverse analysis. The flag flag	MS/MS count P11_1	
MS/MS count P12_1 MS/MS count P14_1 MS/MS count P141_1 MS/MS count P141_1 MS/MS count P141_2 MS/MS count P141_2 MS/MS count P142_1 MS/MS count P142_1 MS/MS count P142_2 MS/MS count P142_2 MS/MS count P142_2 MS/MS count P142_3 LFQ intensity input_1 LFQ intensity input_2 LFQ intensity input_3 MS/MS count input_1 MS/MS count input_1 MS/MS count input_2 MS/MS count input_2 MS/MS count input_2 MS/MS count input_2 MS/MS count input_3 MS/MS count input_2 MS/MS count input_3 MS/MS count input_2 MS/MS count input_3 MS/MS input_3 Peptide sequences belonging to this protein group was identified only by a modification site. Reverse When marked with '+', this particular protein group was identified only by a modification site. Reverse When marked with '+', this particular protein group contains no protein, with a peptide derived from the reversed part of the analysis. The 50% rule is in place to prevent spurious protein hits or erroneously llag the protein group was found to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. Peptide IDs Identifiers of the associated peptides, which correspond to row in the protein Groups table, which is used to cross-link the information in this file with the information stored in the other files. Peptide is razor Indicates for each peptide ID if it is a razor or group unique peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Identifiers of the best	MS/MS count P11_2	
MS/MS count P12_2 MS/MS count P141_1 MS/MS count P141_2 MS/MS count P142_1 MS/MS count P142_1 MS/MS count P142_2 MS/MS count P142_2 MS/MS count P142_3 LFQ intensity input_1 LFQ intensity input_2 LFQ intensity input_3 MS/MS count input_3 MS/MS input_4 When marked with '+', this particular protein group was input contains no protein, made up of at least 50% of the epstides of the leading protein, made up of at least 50% of the epstides of the leading protein, made up of at least 50% of the epstide sof the leading protein, made up of at least 50% of the epstide sof the leading protein, in the input in	MS/MS count P11_3	
MS/MS count P141_1 MS/MS count P141_2 MS/MS count P141_3 MS/MS count P142_1 MS/MS count P142_2 MS/MS count P142_2 MS/MS count P142_3 MS/MS count P142_3 MS/MS count P142_3 MS/MS count P142_3 LFQ intensity input_1 LFQ intensity input_3 LFQ intensity input_3 MS/MS count input_1 MS/MS count input_1 MS/MS count input_2 MS/MS count input_2 MS/MS count input_3 MS/MS count input_4 MS/MS count input_5 MS/MS count input_6 MS/MS count input_7 MS/MS count input_7 MS/MS count input_7 MS/MS count input_7 MS/MS count input_8 MS/MS count input_9 MS/MS count input_9 MS/MS count input_9 MS/MS count input_9 MS/MS input_9 MS/MS count input_9 MS/MS in	MS/MS count P12_1	
MS/MS count P141_1 MS/MS count P141_2 MS/MS count P142_1 MS/MS count P142_2 MS/MS count P142_3 LFQ intensity input_1 LFQ intensity input_1 LFQ intensity input_3 MS/MS count Peptide sequences Only identified by site When marked with '-', this particular protein group was identified only by a modification site. Reverse When marked with '-', this particular protein group contains no protein, made up of at least 50% of the peptides of the leading protein, made up of at least 50% of the reversed part of the decoy database. These should be removed for further data analysis. The 50% rule is in place to prevent spurious protein hits to erroneously flag the protein group as reverse. Potential contaminant When marked with '-', this particular protein group was found to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. The 50% rule is in place to prevent spurious protein hits foe erroneously flag the protein group as reverse. Potential contaminant Uhen marked with '-', this particular protein group was found to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. The 50% rule is in place to prevent spurious protein hits fle with the information stored in the other files. Peptide IDs Identifiers of the associated peptides, which correspond to rows in the peptides table. Peptide is razor Indicates for each peptide ID if it is a razor or group unique peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Evidence IDs MS/MS IDs Best MS/MS The identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site Dositions Positions of the sites in the leading protein of this group.	MS/MS count P12 2	
MS/MS count P141_1 MS/MS count P141_2 MS/MS count P142_1 MS/MS count P142_2 MS/MS count P142_3 LFQ intensity input_1 LFQ intensity input_1 LFQ intensity input_3 MS/MS count Peptide sequences Only identified by site When marked with '-', this particular protein group was identified only by a modification site. Reverse When marked with '-', this particular protein group contains no protein, made up of at least 50% of the peptides of the leading protein, made up of at least 50% of the reversed part of the decoy database. These should be removed for further data analysis. The 50% rule is in place to prevent spurious protein hits to erroneously flag the protein group as reverse. Potential contaminant When marked with '-', this particular protein group was found to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. The 50% rule is in place to prevent spurious protein hits foe erroneously flag the protein group as reverse. Potential contaminant Uhen marked with '-', this particular protein group was found to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. The 50% rule is in place to prevent spurious protein hits fle with the information stored in the other files. Peptide IDs Identifiers of the associated peptides, which correspond to rows in the peptides table. Peptide is razor Indicates for each peptide ID if it is a razor or group unique peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Evidence IDs MS/MS IDs Best MS/MS The identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site Dositions Positions of the sites in the leading protein of this group.	MS/MS count P12 3	
MS/MS count P141_2 MS/MS count P142_1 MS/MS count P142_2 MS/MS count P142_3 LFQ intensity input_1 LFQ intensity input_2 LFQ intensity input_3 MS/MS count input_1 LFQ intensity input_2 LFQ intensity input_2 LFQ intensity input_3 MS/MS count input_1 MS/MS count input_2 MS/MS count input_2 MS/MS count input_3 MS/MS count Peptide sequences Peptide sequences Peptide sequences Peptide sequences When marked with '+', this particular protein group was identified only by a modification site. Reverse When marked with '+', this particular protein group contains no protein, made up of at least 50% of the peptides of the leading protein, with a peptide derived from the reversed part of the decoy database. These should be removed for further data analysis. The 50% rule is in place to prevent spurious protein hits to erroneously flag the protein group was found to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. The 50% rule is in place to prevent spurious protein hits fle with the information in his file with the information stored in the other files. Peptide IDs Identifiers of the associated peptides, which correspond to rows in the peptides table. Mod. peptide IDs WS/MS IDs Best MS/MS The identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Identifiers of the sites in the leading protein of this group.	_	
MS/MS count P142_1 MS/MS count P142_2 MS/MS count P142_3 LFQ intensity input_1 LFG intensity input_2 LFQ intensity input_3 MS/MS count input_1 MS/MS count input_1 MS/MS count input_2 LFQ intensity input_3 MS/MS count input_2 MS/MS count input_3 MS/MS count input_4 MS/MS count input_4 MS/MS count input_5 MVhen marked with '-', this particular protein group was input contains no protein, made up of at least 50% of the peptides of the leading protein, made up of at least 50% of the peptides of the leading protein, made up of at least 50% of the peptides of the leading input i		
MS/MS count P142_1 MS/MS count P142_2 MS/MS count P142_3 LFQ intensity input_1 LFQ intensity input_2 LFQ intensity input_3 MS/MS count input_3 MS/MS count input_1 MS/MS count input_3 MS/MS count Peptide sequences Peptide sequences Peptide sequences Peptide sequences When marked with '+', this particular protein group was identified only by a modification site. Reverse When marked with '+', this particular protein group contains no protein, with a peptide derived from the reversed part of the decoy database. These should be removed for further data analysis. The 50% rule is in place to prevent spurious protein his to erroneously flag the protein group as reverse. Potential contaminant When marked with '+', this particular protein group was found to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. The 50% rule is in place to prevent spurious protein his to erroneously flag the protein group as reverse. Potential contaminant When marked with '+', this particular protein group was found to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. The 50% rule is in place to prevent spurious protein his to erroneously flag the protein group as reverse. Potential contaminant When marked with '+', this particular protein group was found to be a commonly the protein group as reverse. Potential contaminant Under (consecutive) identifier for each row in the protein group state, which is used to cross-link the information in this file with the information stored in the other files. Peptide IDs Identifiers of the associated peptides, which correspond to rows in the peptides table. Potide IDs Identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, ref		
MS/MS count P142_2 MS/MS count P142_3 LFQ intensity input_1 LFQ intensity input_2 LFQ intensity input_3 MS/MS count input_1 MS/MS count input_1 MS/MS count input_2 MS/MS count input_2 MS/MS count input_3 MS/MS count input_4 MS/MS count input_5 MS/MS count input_5 MS/MS count input_5 MS/MS count input_5 MS/MS count input_6 MS/MS count input_6 MS/MS count input_6 MS/MS is input_6 MS/MS count input_6 MS/MS count input_6 MS/MS count input_6 MS/MS input_6 M	_	
MS/MS count P142_3 LFQ intensity input_1 LFQ intensity input_2 LFQ intensity input_3 MS/MS count input_1 MS/MS count input_1 MS/MS count input_2 MS/MS count input_3 MS/MS input_3 MS/MS input_3 MS/MS input_3 MS/MS input_3 MS/MS input_4 MS/MS input_4 MS/MS input_4 MS/MS input_4 MS/MS count input_4 MS/MS cans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Positions of the sites in the leading protein of this group.		
LFQ intensity input_1 LFQ intensity input_2 LFQ intensity input_3 MS/MS count input_1 MS/MS count input_2 MS/MS count input_2 MS/MS count input_2 MS/MS count input_3 MS/MS count Peptide sequences Peptide sequences Peptide sequences When marked with '+', this particular protein group. When marked with '+', this particular protein group was identified only by a modification site. Reverse When marked with '+', this particular protein group contains no protein, made up of at least 50% of the peptides of the leading protein, with a peptide derived from the reversed part of the decoy database. These should be removed for further data analysis. The 50% rule is in place to prevent spurious protein hits to erroneously flag the protein group was found to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. A unique (consecutive) identifier for each row in the proteinGroups table, which is used to cross-link the information in this file with the information stored in the other files. Peptide IDs Identifiers of the associated peptides, which correspond to rows in the peptides table. Peptide IDs Indicates for each peptide ID if it is a razor or group unique peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Indicates for each peptide ID if it is a razor or group unique peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Indicates for each peptide ID if it is protein, referenced against the msms table. Oxidation (M) site IDs Identifiers of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the appropriate modification is the file. Oxidation (M) site positions		
LFQ intensity input_2 LFQ intensity input_3 MS/MS count input_1 MS/MS count input_2 MS/MS count input_3 MS/MS count input_3 MS/MS count input_3 MS/MS count Peptide sequences Peptide sequences Peptide sequences When marked with '+'; this particular protein group. When marked with '+'; this particular protein group was identified only by a modification site. Reverse When marked with '+'; this particular protein group contains no protein, made up of at least 50% of the peptides of the leading protein, with a peptide derived from the reversed part of the decoy database. These should be removed for further data analysis. The 50% rule is in place to prevent spurious protein hits to erroneously flag the protein group as reverse. Potential contaminant When marked with '+', this particular protein group was found to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. A unique (consecutive) identifier for each row in the protein-Groups table, which is used to cross-link the information in this file with the information stored in the other files. Peptide IDs Identifiers of the associated peptides, which correspond to rows in the peptides table. Peptide IDs Identifiers of the associated peptide ID if it is a razor or group unique peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Wilden IDs Identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification is the file. Oxidation (M) site positions	_	
LFQ intensity input_3 MS/MS count input_1 MS/MS count input_2 MS/MS count input_3 MS/MS count input_3 MS/MS count Peptide sequences Peptide sequences belonging to this protein group. Only identified by site When marked with '+', this particular protein group was identified only by a modification site. Reverse When marked with '+', this particular protein group contains no protein, made up of at least 50% of the peptides of the leading protein, with a peptide derived from the reversed part of the decoy database. These should be removed for further data analysis. The 50% rule is in place to prevent spurious protein hits to erroneously flag the protein group as reverse. Potential contaminant When marked with '+', this particular protein group was found to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. A unique (consecutive) identifier for each row in the proteinGroups table, which is used to cross-link the information in this file with the information stored in the other files. Peptide IDs Identifiers of the associated peptides, which correspond to rows in the peptides table. Peptide is razor Indicates for each peptide ID if it is a razor or group unique peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Mod. peptide IDs Mod. peptide IDs Sest MS/MS The identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msm stable. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file.		
MS/MS count input_1 MS/MS count input_2 MS/MS count input_3 MS/MS count Peptide sequences When marked with '+', this particular protein group was identified only by a modification site. Reverse When marked with '+', this particular protein group contains no protein, made up of at least 50% of the peptides of the leading protein, with a peptide derived from the reversed part of the decoy database. These should be removed for further data analysis. The 50% rule is in place to prevent spurious protein hits to erroneously flag the protein group was found to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. Id A unique (consecutive) identifier for each row in the proteinGroups table, which is used to cross-link the information in this file with the information stored in the other files. Peptide IDs Identifiers of the associated peptides, which correspond to rows in the peptides table. Peptide IDs Identifier for each peptide ID if it is a razor or group unique peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Evidence IDs MS/MS IDs Best MS/MS The identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file. Oxidation (M) site positions	, I =	
MS/MS count input_2 MS/MS count input_3 MS/MS count Peptide sequences Peptide sequences Peptide sequences Peptide sequences When marked with '+', this particular protein group. When marked with '+', this particular protein group was identified only by a modification site. Reverse When marked with '+', this particular protein group contains no protein, made up of at least 50% of the peptides of the leading protein, with a peptide derived from the reversed part of the decoy database. These should be removed for further data analysis. The 50% rule is in place to prevent spurious protein hits to erroneously flag the protein group as reverse. Potential contaminant When marked with '+', this particular protein group was found to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. Id A unique (consecutive) identifier for each row in the proteinGroups table, which is used to cross-link the information in this file with the information stored in the other files. Peptide IDs Identifiers of the associated peptides, which correspond to rows in the peptides table. Peptide is razor Indicates for each peptide ID if it is a razor or group unique peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Evidence IDs MS/MS IDs Best MS/MS The identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file. Oxidation (M) site positions		
MS/MS count Peptide sequences Peptide sequences belonging to this protein group. When marked with '+', this particular protein group was identified only by a modification site. Reverse When marked with '+', this particular protein group contains no protein, made up of at least 50% of the peptides of the leading protein, with a peptide derived from the reversed part of the decoy database. These should be removed for further data analysis. The 50% rule is in place to prevent spurious protein hits to erroneously flag the protein group as reverse. Potential contaminant When marked with '+', this particular protein group was found to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. A unique (consecutive) identifier for each row in the protein Groups table, which is used to cross-link the information in this file with the information stored in the other files. Peptide IDs Identifiers of the associated peptides, which correspond to rows in the peptides table. Peptide is razor Indicates for each peptide ID if it is a razor or group unique peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Identifier of the best (in terms of quality) MS/MS cans identifying the peptides of this protein, referenced against the nsms table. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file. Oxidation (M) site positions		
MS/MS count Peptide sequences Peptide sequences Peptide sequences When marked with '+', this particular protein group was identified only by a modification site. Reverse When marked with '+', this particular protein group contains no protein, made up of at least 50% of the peptides of the leading protein, made up of at least 50% of the peptides of the leading protein, with a peptide derived from the reversed part of the decoy database. These should be removed for further data analysis. The 50% rule is in place to prevent spurious protein hits to erroneously flag the protein group as reverse. Potential contaminant When marked with '+', this particular protein group was found to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. A unique (consecutive) identifier for each row in the proteinGroups table, which is used to cross-link the information in this file with the information stored in the other files. Peptide IDs Identifiers of the associated peptides, which correspond to rows in the peptides table. Peptide is razor Indicates for each peptide ID if it is a razor or group unique peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Widence IDs MS/MS IDs Best MS/MS The identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file. Oxidation (M) site positions	· · ·	
Peptide sequences Peptide sequences belonging to this protein group. When marked with '+', this particular protein group was identified only by a modification site. Reverse When marked with '+', this particular protein group contains no protein, made up of at least 50% of the peptides of the leading protein, with a peptide derived from the reversed part of the decoy database. These should be removed for further data analysis. The 50% rule is in place to prevent spurious protein hits to erroneously flag the protein group as reverse. Potential contaminant When marked with '+', this particular protein group contaminant. It is recommended to remove them for further data analysis. A unique (consecutive) identifier for each row in the protein Groups table, which is used to cross-link the information in this file with the information stored in the other files. Peptide IDs Identifiers of the associated peptides, which correspond to rows in the peptides table. Peptide is razor Indicates for each peptide ID if it is a razor or group unique peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Evidence IDs MS/MS IDs Best MS/MS The identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file.	_	
Only identified by site When marked with '+', this particular protein group was identified only by a modification site. Reverse When marked with '+', this particular protein group contains no protein, made up of at least 50% of the peptides of the leading protein, with a peptide derived from the reversed part of the decoy database. These should be removed for further data analysis. The 50% rule is in place to prevent spurious protein hits to erroneously flag the protein group as reverse. Potential contaminant When marked with '+', this particular protein group was found to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. Id A unique (consecutive) identifier for each row in the protein Groups table, which is used to cross-link the information in this file with the information stored in the other files. Peptide IDs Identifiers of the associated peptides, which correspond to rows in the peptides table. Peptide is razor Indicates for each peptide ID if it is a razor or group unique peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Evidence IDs MS/MS IDs Best MS/MS The identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file.		
identified only by a modification site. Reverse When marked with '+', this particular protein group contains no protein, made up of at least 50% of the peptides of the leading protein, with a peptide derived from the reversed part of the decoy database. These should be removed for further data analysis. The 50% rule is in place to prevent spurious protein hits to erroneously flag the protein group as reverse. Potential contaminant When marked with '+', this particular protein group was found to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. A unique (consecutive) identifier for each row in the protein Groups table, which is used to cross-link the information in this file with the information stored in the other files. Peptide IDs Identifiers of the associated peptides, which correspond to rows in the peptides table. Peptide is razor Indicates for each peptide ID if it is a razor or group unique peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Evidence IDs MS/MS IDs Best MS/MS The identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file. Oxidation (M) site positions	· · · · · · · · · · · · · · · · · · ·	
protein, made up of at least 50% of the peptides of the leading protein, with a peptide derived from the reversed part of the decoy database. These should be removed for further data analysis. The 50% rule is in place to prevent spurious protein hits to erroneously flag the protein group as reverse. Potential contaminant When marked with '+', this particular protein group was found to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. A unique (consecutive) identifier for each row in the protein Groups table, which is used to cross-link the information in this file with the information stored in the other files. Peptide IDs Identifiers of the associated peptides, which correspond to rows in the peptides table. Peptide is razor Indicates for each peptide ID if it is a razor or group unique peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Evidence IDs MS/MS IDs Best MS/MS The identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file. Oxidation (M) site positions	Only identified by site	
to be a commonly occurring contaminant. It is recommended to remove them for further data analysis. A unique (consecutive) identifier for each row in the protein Groups table, which is used to cross-link the information in this file with the information stored in the other files. Peptide IDs Identifiers of the associated peptides, which correspond to rows in the peptides table. Peptide is razor Indicates for each peptide ID if it is a razor or group unique peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Evidence IDs MS/MS IDs Best MS/MS The identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file. Oxidation (M) site positions Positions of the sites in the leading protein of this group.	Reverse	protein, made up of at least 50% of the peptides of the leading protein, with a peptide derived from the reversed part of the decoy database. These should be removed for further data analysis. The 50% rule is in place to prevent spurious protein
protein Groups table, which is used to cross-link the information in this file with the information stored in the other files. Peptide IDs Identifiers of the associated peptides, which correspond to rows in the peptides table. Peptide is razor Indicates for each peptide ID if it is a razor or group unique peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Evidence IDs MS/MS IDs Best MS/MS The identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file. Oxidation (M) site positions Positions of the sites in the leading protein of this group.	Potential contaminant	to be a commonly occurring contaminant. It is recommended to
Peptide IDs Identifiers of the associated peptides, which correspond to rows in the peptides table. Peptide is razor Indicates for each peptide ID if it is a razor or group unique peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Evidence IDs MS/MS IDs Best MS/MS The identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file. Oxidation (M) site positions Positions of the sites in the leading protein of this group.	id	A unique (consecutive) identifier for each row in the proteinGroups table, which is used to cross-link the information
peptide (true) or a non unique non razor peptide (false). Mod. peptide IDs Evidence IDs MS/MS IDs Best MS/MS The identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file. Oxidation (M) site positions Positions of the sites in the leading protein of this group.	Peptide IDs	Identifiers of the associated peptides, which correspond to
Evidence IDs MS/MS IDs Best MS/MS Disciplifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file. Oxidation (M) site positions Positions of the sites in the leading protein of this group.	Peptide is razor	
MS/MS IDs Best MS/MS The identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file. Oxidation (M) site positions Positions of the sites in the leading protein of this group.	Mod. peptide IDs	
Best MS/MS The identifier of the best (in terms of quality) MS/MS scans identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file. Oxidation (M) site positions Positions of the sites in the leading protein of this group.	Evidence IDs	
identifying the peptides of this protein, referenced against the msms table. Oxidation (M) site IDs Identifier(s) for site(s) associated with the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file. Oxidation (M) site positions Positions of the sites in the leading protein of this group.	MS/MS IDs	
show(s) evidence of the modification, referenced against the appropriate modification site file. Oxidation (M) site positions Positions of the sites in the leading protein of this group.	Best MS/MS	identifying the peptides of this protein, referenced against the
` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	Oxidation (M) site IDs	show(s) evidence of the modification, referenced against the
Taxonomy IDs Taxonomy identifiers.	Oxidation (M) site positions	Positions of the sites in the leading protein of this group.
	Taxonomy IDs	Taxonomy identifiers.

All peptides

Name	Separator	Description
Raw file		Name of the raw file the spectral data was extracted from.
Туре		The type of detection for the peptide. MULTI – A labeling multiplet was detected. ISO – An isotope pattern was detected.
Charge		The charge state of the peptide.
m/z		The mass divided by the charge of the charged peptide.
Mass		The mass of the neutral peptide ((m/z-proton) * charge).
Uncalibrated m/z		m/z before re-calibrations have been applied.
Number of data points		The number of data points (peak centroids) collected for this peptide feature.
Number of scans		The number of MS scans that the 3d peaks of this peptide feature are overlapping with.
Number of isotopic peaks		The number of isotopic peaks contained in this peptide feature.
PIF		Short for Parent Ion Fraction; indicates the fraction the target peak makes up of the total intensity in the inclusion window.
Mass fractional part		The values after the radix point (ie value - floor(value)).
Mass deficit		Empirically derived deviation measure to the next nearest integer scaled to center around 0. Can be used to visually detect contaminants in a plot setting Mass against this value. m*a+b - round(m*a+b) m: the peptide mass
		a: 0.99954 b: -0.04
Mass precision [ppm]		The precision of the mass detection of the peptide in parts-per- million.
Max intensity m/z 0		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Retention time		The retention time of the peak detected for the peptide measured in minutes.
Retention length		The total retention time width of the peak (last time point – first time point) in seconds.
Retention length (FWHM)		The full width at half maximum value retention time width of the peak in seconds.
Min scan number		The first scan number at which the peak was encountered.
Max scan number		The last scan number at which the peak was encountered.
Identified		When marked with '+' this particular MS/MS scan was identified as a peptide; when marked with '-' no identification was made.
Reverse		When marked with '+' this particular MS/MS scan was assigned to a decoy sequence.
MS/MS IDs		Unique identifier linking this identification to the MS/MS scans.
Sequence		The identified AA sequence of the peptide.
Length		The length of the sequence stored in the column "Sequence".
Modifications		Post-translational modifications contained within the sequence. When no modifications exist, this is set to 'unmodified'.
		Note: This column only set when this MS/MS spectrum has been identified.
Modified sequence		Sequence representation of the peptide including location(s) of modified AAs.
		Note: This column only set when this MS/MS spectrum has been identified.
Proteins		Identifiers of proteins this peptide is associated with.
		Note: This column only set when this MS/MS spectrum has been identified.
Score		The score of the identification (higher is better).
PEP		The posterior error probability of the identification (smaller is better).
Intensity		Summed up eXtracted Ion Current (XIC) of all isotopic clusters associated with the identified AA sequence. In case of a labeled experiment this is the total intensity of all the isotopic patterns in the label cluster.
Intensities		Elution profile.
Isotope pattern		Isotope pattern.
MS/MS Count		The number of MS/MS spectra recorded for the peptide.

MSMS Scan Numbers	The scan numbers where the MS/MS spectra were recorded.
MSMS Isotope Indices	Indices of the isotopic peaks that the MS/MS spectra reside on. A value of 0 corresponds to the monoisotopic peak.

MS scans

The msScans table contains information about the full scans, which can be used to verify data quality and generated useful statistics about the interaction between the samples and LC.

Name	Separator	Description
Raw file		The name of the RAW-file the mass spectral data originates from.
Scan number		The scan number (defined in the raw-file) at which the full scan was made.
Scan index		The consecutive index of this full scan.
Retention time		The retention time at which the full scan was made.
Cycle time		The total time (full scan including the tandem MS scans) this full scan has taken up.
Ion injection time		The total injection time that was required to capture the specified amount of ions. This value is limited by a maximum, which can be used to determine whether the time has maxed out (indicative of a bad acquisition).
Base peak intensity		The intensity of the most intense ion in the spectrum.
Total ion current		The total intensity acquired in the full scan.
MS/MS count		The number of tandem MS scans that were made based on this full scan (e.g. a top 10 method selects the top 10 most intense ions in the scan and fragments those).
Mass calibration		The applied mass correction in Th to the full scan.
Fraction		The fraction measured with this full scan.
Experiment		
Peak length		The average time between the start and the end of the peaks detected in the full scan.
Isotope pattern length		The average time between the start and the end of the isotope patterns detected in the full scan.
Multiplet length		The average time between the start and the end of the isotope patterns of the labeling multiplets detected in the full scan.
Peaks / s		The average number of peaks detected per second of chromatography.
Single peaks / s		The average number of single peaks detected per second of chromatography.
Isotope patterns / s		The average number of isotope patterns detected per second of chromatography.
Single isotope patterns / s		The average number of single isotope patterns detected per of second chromatography.
Multiplets / s		The average number of labeling multiplets detected per of second chromatography.
Identified multiplets / s		The percentage of labeling multiplets actually identified.
Multiplet identification rate [%]		The percentage of the detected labeling multiplets that were identified.
MS/MS / s		The average number of MS/MS events per second of chromatography.
Identified MS/MS / s		The average number of identified MS/MS events per second of chromatography.
MS/MS identification rate [%]		The percentage of tandem MS scans that were identified.
Intens Comp Factor		Taken from the Thermo RAW file.
CTCD Comp		Taken from the Thermo RAW file.
RawOvFtT		For Thermo Fisher only. TIC estimation done with the orbitrap cell.
AGC Fill		Taken from the Thermo RAW file.

MZ range

Name	Separator	Description
Raw file		The name of the RAW-file the mass spectral data was derived from.
m/z		The mass-over-charge value.
Peaks / Da		The average number of peaks detected per Dalton.
Single peaks / Da		The average number of single peaks detected per Dalton.
Isotope patterns / Da		The average number of isotope patterns detected per Dalton.
Single isotope patterns / Da		The average number of single isotope patterns detected per Dalton.
SILAC pairs / Da		The average number of SILAC pairs detected per Dalton.
Identified SILAC pairs / Da		The percentage of SILAC pairs actually identified.
SILAC identification rate [%]		The percentage of the detected SILAC pairs that were identified.
MS/MS / Da		The average number of MS/MS events per Dalton.
Identified MS/MS / Da		The average number of identified MS/MS events per Dalton.
Identification rate [%]		The percentage of tandem MS scans that were identified.

MS/MS scans

Name	Separator	Description
Raw file		Name of the RAW file the spectral MS/MS data was extracted from.
Scan number		RAW file derived scan number for the MS/MS spectrum.
Retention time		Time point along the elution profile at which the MS/MS data was recorded.
Ion injection time		The ion inject time for the MS/MS scan. This can be used to determine if this time equals to the maximum ion inject time, general indicative of a lower quality spectrum.
Total ion current		The total ion current of the MS/MS scan. For Thermo data this value is calculated by summing all the intensity values found in the mass spectral data, which is different from the Xcalibur reported TIC (Xcalibur TIC is about 25% of the value reported here).
Collision energy		The collision energy used for the fragmentation that resulted in this MS/MS scan.
Summations		For time of flight instruments only.
Base peak intensity		The intensity of the most intense ion in the spectrum.
Elapsed time		The time the MS/MS scan took to complete.
Identified		When marked with '+' this particular MS/MS scan was identified as a peptide; when marked with '-' no identification was made.
Matched		When marked with '+' this particular MS/MS scan was retrieved by matching between runs.
Reverse		When marked with '+' this particular MS/MS scan was assigned to a decoy sequence.
MS/MS IDs		Unique identifier linking this identification to the MS/MS scans.
Sequence		The identified AA sequence of the peptide.
Length		The length of the sequence stored in the column "Sequence".
Filtered peaks		Number of peaks after the 'top X per 100 Da' filtering.
m/z		Recalibrated m/z of the precursor ion.
Mass		Charge corrected mass of the precursor ion.
Charge		Charge state of the precursor ion.
Туре		The type of precursor ion as identified by MaxQuant. ISO – isotopic cluster. PEAK – single peak. MULTI – labeling cluster.
Fragmentation		The type of fragmentation used to create the MS/MS spectrum. CID – Collision Induced Dissociation. HCD – High energy Collision induced Dissociation. ETD – Electron Transfer Dissociation.
Mass analyzer		The mass analyzer used to record the MS/MS spectrum. ITMS – Ion trap. FTMS – Fourier transform ICR or orbitrap cell. TOF – Time of flight.
Parent intensity fraction		The percentage the parent ion intensity makes up of the total intensity in the selection window.
Fraction of total spectrum		The percentage the parent ion intensity makes up of the total intensity of the whole MS spectrum.
Base peak fraction		The percentage the parent ion intensity in comparison to the highest peak in he MS spectrum.
Precursor full scan number		The full scan number where the precursor ion was selected for fragmentation.
Precursor intensity		The intensity of the precursor ion at the scan number it was selected.
Precursor apex fraction		The fraction the intensity of the precursor ion makes up of the peak (apex) intensity.
Precursor apex offset		How many full scans the precursor ion is offset from the peak (apex) position.
Precursor apex offset time		How much time the precursor ion is offset from the peak (apex) position.
Scan event number		This number indicates which MS/MS scan this one is in the consecutive order of the MS/MS scans that are acquired after an MS scan.
Modifications		Post-translational modifications contained within the sequence. When no modifications exist, this is set to 'unmodified'.
		Note: This column only set when this MS/MS spectrum has been identified.

Modified sequence	Sequence representation of the peptide including location(s) of modified AAs.
	Note: This column only set when this MS/MS spectrum has been identified.
Proteins	Identifiers of proteins this peptide is associated with.
	Note: This column only set when this MS/MS spectrum has been identified.
Score	The score of the identification (higher is better).
PEP	The posterior error probability of the identification (smaller is better).
Fraction	The identifier of the fraction the sample was taken from.
Experiment	
Reporter PIF	
Reporter fraction	
Intens Comp Factor	Taken from the Thermo RAW file.
CTCD Comp	Taken from the Thermo RAW file.
RawOvFtT	For Thermo Fisher only. TIC estimation done with the orbitrap cell.
AGC Fill	Taken from the Thermo RAW file.
Scan index	Consecutive index of the MS/MS spectrum.
MS scan index	Consecutive index of the MS spectrum prior to this MS/MS spectrum.
MS scan number	Scan number of the MS spectrum prior to this MS/MS spectrum.

MS/MS

Name	Separator	Description
Raw file		The name of the RAW file the mass spectral data was read from.
Scan number		The RAW-file derived scan number of the MS/MS spectrum.
Scan index		The consecutive index of the MS/MS spectrum.
Sequence		The identified AA sequence of the peptide.
Length		The length of the sequence stored in the column "Sequence".
Missed cleavages		Number of missed enzymatic cleavages.
Modifications		Post-translational modifications contained within the identified peptide sequence.
Modified sequence		Sequence representation including the post-translational modifications (abbreviation of the modification in brackets before the modified AA). The sequence is always surrounded by underscore characters ('_').
Oxidation (M) Probabilities		Sequence representation of the peptide including PTM positioning probabilities ([01], where 1 is best match) for 'Oxidation (M)'.
Oxidation (M) Score diffs		
Acetyl (Protein N-term)		
Oxidation (M)		
Proteins		The identifiers of the proteins the identified peptide is associated with.
Gene Names		Names of genes the identified peptide is associated with.
Protein Names		Descriptions of the proteins the identified peptide is associated with.
Charge		The charge state of the precursor ion.
Fragmentation		The type of fragmentation used to create the MS/MS spectrum. CID – Collision Induced Dissociation. HCD – High energy Collision induced Dissociation. ETD – Electron Transfer Dissociation.
Mass analyzer		The mass analyzer used to record the MS/MS spectrum. ITMS – Ion trap. FTMS – Fourier transform ICR or orbitrap cell. TOF – Time of flight.
Туре		The type of precursor ion as identified by MaxQuant. ISO – isotopic cluster. PEAK – single peak. MULTI – labeling cluster.
Scan event number		mounty states.
Isotope index		
m/z		The mass-over-charge of the precursor ion.
Mass		The charge corrected mass of the precursor ion.
Mass error [ppm]		Mass error of the recalibrated mass-over-charge value of the precursor ion in comparison to the predicted monoisotopic mass of the identified peptide sequence expressed in parts per million.
Mass error [Da]		Mass error of the recalibrated mass-over-charge value of the precursor ion in comparison to the predicted monoisotopic mass of the identified peptide sequence expressed in atomic mass units.
Simple mass error [ppm]		
Retention time		The uncalibrated retention time in minutes where the MS/MS spectrum has been acquired.
PEP		Posterior Error Probability of the identification. This value essentially operates as a p-value, where smaller is more significant.
Score		Andromeda score for the best associated MS/MS spectrum.
Delta score		Score difference to the second best identified peptide with a different amino acid sequence.
Score diff		Score difference to the second best positioning of modifications identified peptide with the same amino acid sequence.
Localization prob		
Combinatorics		Number of possible distributions of the modifications over the peptide sequence.
PIF		Short for Parent Ion Fraction; indicates the fraction the target peak makes up of the total intensity in the inclusion window.
Fraction of total spectrum		The percentage the parent ion intensity makes up of the total intensity of the whole spectrum.

Base peak fraction	The percentage the parent ion intensity in comparison to the highest peak in he MS spectrum.
Precursor full scan number	The full scan number where the precursor ion was selected for fragmentation.
Precursor Intensity	The intensity of the precursor ion at the scan number it was selected.
Precursor apex fraction	The fraction the intensity of the precursor ion makes up of the peak (apex) intensity.
Precursor apex offset	How many full scans the precursor ion is offset from the peak (apex) position.
Precursor apex offset time	How much time the precursor ion is offset from the peak (apex) position.
Matches	The species of the peaks in the fragmentation spectrum after TopN filtering.
Intensities	The intensities of the peaks in the fragmentation spectrum after TopN filtering.
Mass deviations [Da]	The mass deviation of each peak in the fragmentation spectrum in absolute mass units.
Mass deviations [ppm]	The mass deviation of each peak in the fragmentation spectrum in parts per million.
Masses	The masses-over-charge of the peaks in the fragmentation spectrum.
Number of matches	The number of peaks matching to the predicted fragmentation spectrum.
Intensity coverage	The fraction of intensity in the MS/MS spectrum that is annotated.
Peak coverage	The fraction of peaks in the MS/MS spectrum that are annotated.
Neutral loss level	How many neutral losses were applied to each fragment in the Andromeda scoring.
ETD identification type	For ETD spectra several different combinations of ion series are scored. Here the highest scoring combination is indicated
Reverse	When marked with '+', this particular peptide was found to be part of a protein derived from the reversed part of the decoy database. These should be removed for further data analysis.
All scores	
All sequences	
All modified sequences	
Reporter PIF	
Reporter fraction	
id	A unique (consecutive) identifier for each row in the msms table, which is used to cross-link the information in this file with the information stored in the other files.
Protein group IDs	The identifier of the protein-group this redundant peptide sequence is associated with, which can be used to look up the extended protein information in the file 'proteinGroups.txt'. As a single peptide can be linked to multiple proteins (e.g. in the case of razor-proteins), multiple id's can be stored here separated by a semicolon. As a protein can be identified by multiple peptides, the same id can be found in different rows.
Peptide ID	The identifier of the non-redundant peptide sequence.
Mod. peptide ID	Identifier of the associated modification summary stored in the file 'modificationSpecificPeptides.txt'.
Evidence ID	Identifier of the associated evidence stored in the file 'evidence.txt'.
Oxidation (M) site IDs	Identifier of the associated entry stored in the file 'Oxidation (M)Sites.txt'.