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	- Соринист	The raw file processed.
Experiment		Experiment name 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.
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.
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.
Resolution		The resolution of precursor ion measured in Full Width at Half Maximum (FWHM).
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.

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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 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 uncalibrated retention time in minutes in the elution profile of the precursor ion.
Retention length	The total retention time length of the peak (last timepoint – first timepoint).
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 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'.
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'.
AIF MS/MS IDs	Identifier(s) of the associated All Ion Fragmentation MS/MS summary(s) stored in the file 'aifMsms.txt'.
Oxidation (M) site IDs	Identifier(s) of the modification summary stored in the file 'Oxidation (M)Sites.txt'.

Peptides

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

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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 MC1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC4	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC6	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC7	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC7	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC8	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC9	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT4	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT5	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT6	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Experiment MC1	Number of evidence entries for this 'Experiment'.
Experiment MC2	Number of evidence entries for this 'Experiment'.
Experiment MC3	Number of evidence entries for this 'Experiment'.
Experiment MC4	Number of evidence entries for this 'Experiment'.
Experiment MC6	Number of evidence entries for this 'Experiment'.
Experiment MC7	Number of evidence entries for this 'Experiment'.
Experiment MNC1	Number of evidence entries for this 'Experiment'.
Experiment MNC2	Number of evidence entries for this 'Experiment'.
Experiment MNC3	Number of evidence entries for this 'Experiment'.
Experiment MNC7	Number of evidence entries for this 'Experiment'.
Experiment MNC8	Number of evidence entries for this 'Experiment'.
Experiment MNC9	Number of evidence entries for this 'Experiment'.
Experiment WT1	Number of evidence entries for this 'Experiment'.
Experiment WT2	Number of evidence entries for this 'Experiment'.
Experiment WT3	Number of evidence entries for this 'Experiment'.
Experiment WT4	Number of evidence entries for this 'Experiment'.
Experiment WT5	Number of evidence entries for this 'Experiment'.
Experiment WT6 Intensity	Number of evidence entries for this 'Experiment'. 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 MC1	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 MC2	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.
Intensity MC3	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 MC4	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 MC6	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 MC7	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 MNC1	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 MNC2	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 MNC3	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 MNC7	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 MNC8	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 MNC9	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 WT1	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 WT2	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 WT3	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 WT4	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 WT5	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 WT6	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 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.
Mod. peptide IDs	Identifier(s) for peptide sequence(s), associated with the peptide, referenced against the corresponding modified peptides table.
Evidence IDs	Identifier(s) for analyzed peptide evidence associated with the protein group referenced against the evidences 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 the protein group, which show(s) evidence of the modification, referenced against the appropriate modification site file.
MS/MS Count	

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 whoch 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 MC1		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC2		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC3		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC4		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC6		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC7		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC1		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC2		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC3		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC7		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC8		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC9		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT1		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT2		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT3		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT4		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT5		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT6		Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Experiment MC1		Number of evidence entries for this 'Experiment'.
Experiment MC2		Number of evidence entries for this 'Experiment'.
Experiment MC3		Number of evidence entries for this 'Experiment'.
Experiment MC4		Number of evidence entries for this 'Experiment'.
Experiment MC6		Number of evidence entries for this 'Experiment'.
Experiment MC7		Number of evidence entries for this 'Experiment'.
Experiment MNC1		Number of evidence entries for this 'Experiment'.
Experiment MNC2		Number of evidence entries for this 'Experiment'.
Experiment MNC3		Number of evidence entries for this 'Experiment'.
Experiment MNC7		Number of evidence entries for this 'Experiment'.
•		Number of evidence entries for this 'Experiment'.
Experiment MNC8		Inumper of evidence entries for this experiment

Experiment WT1	Number of evidence entries for this 'Experiment'.
Experiment WT2	Number of evidence entries for this 'Experiment'.
Experiment WT3	Number of evidence entries for this 'Experiment'.
Experiment WT4	Number of evidence entries for this 'Experiment'.
Experiment WT5	Number of evidence entries for this 'Experiment'.
Experiment WT6	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.
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 MC1	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 MC2	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 MC3	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 MC4	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 MC6	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 MC7	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 MNC1	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 MNC2	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 MNC3	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 MNC7	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 MNC8	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 MNC9	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 WT1	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.

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 WT3 Summed up eXtracted Ion Current (XIC) of all isotopic cluster 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 WT4 Summed up eXtracted Ion Current (XIC) of all isotopic cluster 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 WT5 Summed up eXtracted Ion Current (XIC) of all isotopic cluster 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 WT6 Summed up eXtracted Ion Current (XIC) of all isotopic cluster 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 cluster 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 *-1, 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 *-1, this particular peptide was found to be part of a commonly occurring contaminant. These should be removed for further data analysis. In the information stored in the other data analysis. In the identifier of the associated with the information in this table with the information in the peptide with the information in the peptide patterns of the protein groups this peptide was linked to referenced against the prote		
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 cluster 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 WT5 Summed up extracted Ion Current (XIC) of all isotopic cluster 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 WT6 Summed up extracted Ion Current (XIC) of all isotopic cluster 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 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 protein group the expense days in the protein group the expense associated with the protein group referenced against the evidences table. MS/MS IDs Intensity WT6 Intensity WT6 Summed up extracted Ion Current (XIC) of all isotopic dusterned against the msms table. Intensity WT6 Summed up extracted Ion Current (XIC) of all isotopic dusterned against the appropriate modification, referenced against the appropriate modification, referenced against the	Intensity WT2	labeled experiment this is the total intensity of all the isotopic
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 cluster 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 cluster 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. 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 protein groups table. Identifier of the associated peptide sequence summary, which can be found in the file 'peptides.txt'. Evidence IDs Identifier of the AS/MS scans identifying this peptide, referenced against the evidences table. MS/MS IDs 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 of the best (in terms of quality) MS/MS scan identifying this peptide, referenced against the msms table.	Intensity WT3	labeled experiment this is the total intensity of all the isotopic
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 cluster 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. 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. 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 evidences table. MS/MS IDs The identifiers 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 the spentide, which show(s) evidence of the modification, referenced against the appropriate modification site file.	Intensity WT4	labeled experiment this is the total intensity of all the isotopic
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 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 Identifiers of the MS/MS scans identifying this peptide, referenced against the evidences table. MS/MS IDs The identifiers 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.	Intensity WT5	labeled experiment this is the total intensity of all the isotopic
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 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 evidences 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.	Intensity WT6	labeled experiment this is the total intensity of all the isotopic
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. 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 evidences 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.	Reverse	
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 evidences 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.	Potential contaminant	part of a commonly occurring contaminant. These should be
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 evidences 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.	id	table, which is used to cross-link the information in this table
can be found in the file 'peptides.txt'. Evidence IDs Identifier(s) for analyzed peptide evidence associated with the protein group referenced against the evidences 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.	Protein group IDs	The identifiers of the protein groups this peptide was linked to, referenced against the proteinGroups table.
protein group referenced against the evidences 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.	Peptide ID	Identifier of the associated peptide sequence summary, which can be found in the file 'peptides.txt'.
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.	Evidence IDs	Identifier(s) for analyzed peptide evidence associated with the protein group referenced against the evidences table.
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 IDs	
show(s) evidence of the modification, referenced against the appropriate modification site file.	Best MS/MS	The identifier of the best (in terms of quality) MS/MS scan identifying this peptide, referenced against the msms table.
MS/MS Count	Oxidation (M) site IDs	show(s) evidence of the modification, referenced against the
MO/MO COURT	MS/MS Count	

Oxidation (M)Sites

Name	Separator	Description
Proteins		Identifiers of proteins this site is associated with.
Positions within proteins		For each protein identifier in the 'Proteins' column you find here the psoition 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		
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 MC1		
Score diff MC1		
PEP MC1		
Score MC1		
Localization prob MC2		
Score diff MC2		
PEP MC2		
Score MC2		
Localization prob MC3		
Score diff MC3		
PEP MC3		
Score MC3		
Localization prob MC4		
Score diff MC4		
PEP MC4		
Score MC4		
Localization prob MC6		
Score diff MC6		
PEP MC6		
Score MC6		
Localization prob MC7		
Score diff MC7		
PEP MC7		
Score MC7		
Localization prob MNC1		
Score diff MNC1		
PEP MNC1		
Score MNC1		
Localization prob MNC2		
Score diff MNC2		
PEP MNC2		
Score MNC2		
Localization prob MNC3		
Score diff MNC3		
PEP MNC3		
Score MNC3		
Localization prob MNC7		
Score diff MNC7		
PEP MNC7		

Localization prob MNC8	
Score diff MNC8	
PEP MNC8	
Score MNC8	
Localization prob MNC9	
Score diff MNC9	
PEP MNC9	
Score MNC9	
Localization prob WT1	
Score diff WT1	
PEP WT1	
Score WT1	
Localization prob WT2	
Score diff WT2	
PEP WT2	
Score WT2	
Localization prob WT3	
Score diff WT3	
PEP WT3 Score WT3	
-	
Localization prob WT4 Score diff WT4	
PEP WT4	
Score WT4	
Localization prob WT5	
Score diff WT5	
PEP WT5	
Score WT5	
Localization prob WT6	
Score diff WT6	
PEP WT6	
Score WT6	
Diagnostic peak	
Number of Oxidation (M)	Different numbers of Oxidation (M) on peptides that this site is
rtaniber er extraction (m)	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 MC1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC4	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC6	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC7	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC7	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC8	Indicates whether this experiment was identified by MS/MS or only by matching between runs.

Identification type MNC9	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT4	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT5	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT6	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 MC1	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 MC2	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 MC3	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 MC4	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 MC6	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 MC7	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 MNC1	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 MNC2	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 MNC3	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 MNC7	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 MNC8	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 MNC9	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 WT1	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 WT2	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 WT3	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 WT4	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 WT5	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 WT6	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 MC1	
Ratio mod/base MC2	
Ratio mod/base MC3	
Ratio mod/base MC4	
Ratio mod/base MC6	
Ratio mod/base MC7	
Ratio mod/base MNC1	
Ratio mod/base MNC2	
Ratio mod/base MNC3	
Ratio mod/base MNC7	
Ratio mod/base MNC8	
Ratio mod/base MNC9	
Ratio mod/base WT1	
Ratio mod/base WT2	
Ratio mod/base WT3	
Ratio mod/base WT4	
Ratio mod/base WT5	
Ratio mod/base WT6	
Intensity MC11	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 MC12	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 MC13	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 MC21	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 MC22	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 MC23	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 MC31	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 MC32	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 MC33	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 MC41	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 MC42	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 MC43	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 MC61	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 MC62	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 MC63	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 MC71	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 MC72	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 MC73	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 MNC11	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 MNC12	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 MNC13	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 MNC21	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 MNC22	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 MNC23	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 MNC31	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 MNC32	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 MNC33	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 MNC71	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 MNC72	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 MNC73	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 MNC81	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 MNC82	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 MNC83	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 MNC91	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 MNC92	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 MNC93	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 WT11	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 WT12	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 WT13	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 WT21	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 WT22	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 WT23	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 WT31	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 WT32	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 WT33	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 WT41	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 WT42	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 WT43	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 WT51	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 WT52	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 WT53	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 WT61	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 WT62	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 WT63	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 protein sequence 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 site 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 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.
Positions	The positions of the modifications in the protein amino acid sequence.
Position	The position of the modification in the protein amino acid sequence.
Peptide IDs	Identifier(s) of the associated peptide sequence(s) summary, which can be found in the file 'peptides.txt'.
Mod. peptide IDs	Identifier(s) of the associated peptide sequence(s) summary, which can be found in the file 'modificationSpecificPeptides.txt'.
Evidence IDs	Identifier(s) for analyzed peptide evidence associated with the protein group referenced against the evidences table.
MS/MS IDs	The identifiers of the MS/MS scans identifying this peptide, referenced against the msms table.
Best localization evidence ID	
Best localization MS/MS ID	
Best localization raw file	
Best localization scan number	
Best score evidence ID	
Best score MS/MS ID	
Best score raw file	
Best score scan number	
Best PEP evidence ID	
Best PEP MS/MS ID	
Best PEP raw file	
Best PEP scan number	

Protein groups

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

Name	Separator	Description
Protein IDs		Identifier(s) of protein(s) 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, occuring 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, occuring 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, occuring 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		Name(s) of protein(s) contained within the group.
Gene names		Name(s) of the gene(s) associated to the protein(s) contained within the group.
Fasta headers		Fasta headers(s) of protein(s) contained within the group.
Number of proteins		Number of proteins contained within the group. This corresponds to the number of entries in the colum '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 MC1		Number of peptides (distinct peptide sequences) in experiment MC1
Peptides MC2		Number of peptides (distinct peptide sequences) in experiment MC2
Peptides MC3		Number of peptides (distinct peptide sequences) in experiment MC3
Peptides MC4		Number of peptides (distinct peptide sequences) in experiment MC4
Peptides MC6		Number of peptides (distinct peptide sequences) in experiment MC6
Peptides MC7		Number of peptides (distinct peptide sequences) in experiment MC7
Peptides MNC1		Number of peptides (distinct peptide sequences) in experiment MNC1
Peptides MNC2		Number of peptides (distinct peptide sequences) in experiment MNC2
Peptides MNC3		Number of peptides (distinct peptide sequences) in experiment MNC3
Peptides MNC7		Number of peptides (distinct peptide sequences) in experiment MNC7
Peptides MNC8		Number of peptides (distinct peptide sequences) in experiment MNC8
Peptides MNC9		Number of peptides (distinct peptide sequences) in experiment MNC9
Peptides WT1		Number of peptides (distinct peptide sequences) in experiment WT1
Peptides WT2		Number of peptides (distinct peptide sequences) in experiment WT2
Peptides WT3		Number of peptides (distinct peptide sequences) in experiment WT3
Peptides WT4		Number of peptides (distinct peptide sequences) in experiment WT4
Peptides WT5		Number of peptides (distinct peptide sequences) in experiment WT5

Peptides WT6	Number of peptides (distinct peptide sequences) in experiment WT6
Razor + unique peptides MC1	Number of razor + unique peptides (distinct peptide sequences) in experiment MC1
Razor + unique peptides MC2	Number of razor + unique peptides (distinct peptide sequences) in experiment MC2
Razor + unique peptides MC3	Number of razor + unique peptides (distinct peptide sequences) in experiment MC3
Razor + unique peptides MC4	Number of razor + unique peptides (distinct peptide sequences) in experiment MC4
Razor + unique peptides MC6	Number of razor + unique peptides (distinct peptide sequences) in experiment MC6
Razor + unique peptides MC7	Number of razor + unique peptides (distinct peptide sequences) in experiment MC7
Razor + unique peptides MNC1	Number of razor + unique peptides (distinct peptide sequences) in experiment MNC1
Razor + unique peptides MNC2	Number of razor + unique peptides (distinct peptide sequences) in experiment MNC2
Razor + unique peptides MNC3	Number of razor + unique peptides (distinct peptide sequences) in experiment MNC3
Razor + unique peptides MNC7	Number of razor + unique peptides (distinct peptide sequences) in experiment MNC7
Razor + unique peptides MNC8	Number of razor + unique peptides (distinct peptide sequences) in experiment MNC8
Razor + unique peptides MNC9	Number of razor + unique peptides (distinct peptide sequences) in experiment MNC9
Razor + unique peptides WT1	Number of razor + unique peptides (distinct peptide sequences) in experiment WT1
Razor + unique peptides WT2	Number of razor + unique peptides (distinct peptide sequences) in experiment WT2
Razor + unique peptides WT3	Number of razor + unique peptides (distinct peptide sequences) in experiment WT3
Razor + unique peptides WT4	Number of razor + unique peptides (distinct peptide sequences) in experiment WT4
Razor + unique peptides WT5	Number of razor + unique peptides (distinct peptide sequences) in experiment WT5
Razor + unique peptides WT6	Number of razor + unique peptides (distinct peptide sequences) in experiment WT6
Unique peptides MC1	Number of unique peptides (distinct peptide sequences) in experiment MC1
Unique peptides MC2	Number of unique peptides (distinct peptide sequences) in experiment MC2
Unique peptides MC3	Number of unique peptides (distinct peptide sequences) in experiment MC3
Unique peptides MC4	Number of unique peptides (distinct peptide sequences) in experiment MC4
Unique peptides MC6	Number of unique peptides (distinct peptide sequences) in experiment MC6
Unique peptides MC7	Number of unique peptides (distinct peptide sequences) in experiment MC7
Unique peptides MNC1	Number of unique peptides (distinct peptide sequences) in experiment MNC1
Unique peptides MNC2	Number of unique peptides (distinct peptide sequences) in experiment MNC2
Unique peptides MNC3	Number of unique peptides (distinct peptide sequences) in experiment MNC3
Unique peptides MNC7	Number of unique peptides (distinct peptide sequences) in experiment MNC7
Unique peptides MNC8	Number of unique peptides (distinct peptide sequences) in experiment MNC8
Unique peptides MNC9	Number of unique peptides (distinct peptide sequences) in experiment MNC9
Unique peptides WT1	Number of unique peptides (distinct peptide sequences) in experiment WT1
Unique peptides WT2	Number of unique peptides (distinct peptide sequences) in experiment WT2
Unique peptides WT3	Number of unique peptides (distinct peptide sequences) in experiment WT3
Unique peptides WT4	Number of unique peptides (distinct peptide sequences) in experiment WT4
Unique peptides WT5	Number of unique peptides (distinct peptide sequences) in experiment WT5
Unique peptides WT6	Number of unique peptides (distinct peptide sequences) in experiment WT6
Sequence coverage [%]	Percentage of the sequence that is covered by the identified peptides of the best protein sequence contained in the group.

Unique + razor sequence coverage [%]	Percentage of the sequence that is covered by the identified 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 identified unique peptides of the best protein sequence contained in the group.
Mol. weight [kDa]	Molecular weight of the leading protein sequence contained in the protein group.
Sequence length	The length of the leading protein sequence contained in the group.
Sequence lengths	The length of all sequences of the proteins contained in the group.
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 MC1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC4	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC6	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MC7	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC7	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC8	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type MNC9	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT1	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT2	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT3	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT4	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT5	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Identification type WT6	Indicates whether this experiment was identified by MS/MS or only by matching between runs.
Sequence coverage MC1 [%]	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 MC2 [%]	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 MC3 [%]	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 MC4 [%]	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 MC6 [%]	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 MC7 [%]	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 MNC1 [%]	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 MNC2 [%]	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 MNC3 [%]	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 MNC7 [%]	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 MNC8 [%]	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 MNC9 [%]	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 WT1 [%]	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 WT2 [%]	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 WT3 [%]	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 WT4 [%]	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 WT5 [%]	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 WT6 [%]	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 MC1	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 MC2	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 MC3	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 MC4	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 MC6	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 MC7	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 MNC1	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 MNC2	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 MNC3	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 MNC7	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 MNC8	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 MNC9	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 WT1	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 WT2	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 WT3	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 WT4	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 WT5	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 WT6	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.
LFQ intensity MC1	
LFQ intensity MC2	
LFQ intensity MC3	
LFQ intensity MC4	
LFQ intensity MC6	
LFQ intensity MC7	
LFQ intensity MNC1	
LFQ intensity MNC2	
LFQ intensity MNC3	
LFQ intensity MNC7	
LFQ intensity MNC8	
LFQ intensity MNC9	
LFQ intensity WT1	
LFQ intensity WT2	
LFQ intensity WT3	
LFQ intensity WT4	
LFQ intensity WT5	
LFQ intensity WT6	
MS/MS count MC1	
MS/MS count MC2	
MS/MS count MC3	
MS/MS count MC4	
MS/MS count MC6	
MS/MS count MC7	
MS/MS count MNC1	
MS/MS count MNC2	
MS/MS count MNC3	
MS/MS count MNC7	
MS/MS count MNC8	
MS/MS count MNC9	
MS/MS count WT1	
MS/MS count WT2	
MS/MS count WT3	
MS/MS count WT4	
MS/MS count WT5	
MS/MS count WT6	
MS/MS count	Million made at 1911 to 1911 at 1911 to 1911
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. These should be removed 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	Identifier(s) of the associated peptide sequence(s) summary, which can be found in the file 'peptides.txt'.
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.

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 recalibrations have been applied.
Resolution		The resolution of the peak detected for the peptide measured in Full Width at Half Maximum (FWHM).
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: 0.999555
Mass precision [ppm]		b: -0.10 The precision of the mass detection of the peptide in parts-permillion.
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 timepoint – first timepoint) 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.
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
Modified sequence		been identified. Sequence representation of the peptide including location(s) of
Woodined Sequence		modified AAs. Note: This column only set when this MS/MS spectrum has
Proteins		been identified. 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).
		Note: This column only set when this MS/MS spectrum has been identified.
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.
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.
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 scannumber 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).
	Note: This column only set when this MS/MS spectrum has been identified.
Experiment	
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		
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.
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 ScanNumber		The full scannumber where the precursor ion was selected for fragmentation.
Precursor Intensity		The intensity of the precursor ion at the scannumber 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	
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 oxidation summary stored in the file 'Oxidation (M)Sites.txt'.

AIF MS/MS

Name	Separator	Description
id		A unique (consecutive) identifier for each row in the AIF MS/MS 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 for analyzed peptide evidence associated with the protein group referenced against the evidences table.
Oxidation (M) site IDs		
Raw file		Name of the RAW file the spectral data was extracted from, which led to the identification of this peptide.
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 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.
Oxidation (M) Probabilities		
Oxidation (M) Score Diffs		
Acetyl (Protein N-term)		
Oxidation (M)		
Proteins		The IPI identifiers of the proteins the identified peptide is associated with.
Charge		The charge of the precursor ion.
m/z		The mass-over-charge of the precursor ion.
Mass		The charge corrected mass of the precursor ion.
Retention time		The uncalibrated retention time in minutes in the elution profile of the precursor ion.
Precursor intensity		The intensity of the precursor ion.
PEP		Posterior Error Probability of the identification. This value essentially operates as a p-value, where smaller is more significant.
Score		Andromeda identification score for the 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.
Matches		
Intensities		The intensities of the peaks in the fragmentation spectrum after top-N filtering.
Mass Deviations		The search engine allowed mass deviations of the peaks in the fragmentation spectrum.
Masses		The masses-over-charge of the peaks in the fragmentation spectrum.
Charges		
Correlations		
Number of Matches		
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.