

## Quick Start Guide: ProteoVision™

### Things to know before you start

#### Accepted input file formats

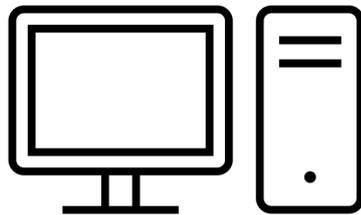
ProteoVision accepts the following file formats:

- \*.tsv files (Spectronaut®, DIA-NN and Sage)
- \*.parquet (ProteoScape®)
- \*.txt (evidence and protein.txt; MaxQuant)

#### Spectronaut® report scheme

A custom Spectronaut report scheme **ReportProteoVision.rs** is available in the extracted .exe directory.

- Import scheme into Spectronaut®: go to “Report” → “Import scheme“
- Export .tsv



### Organize input files

ProteoVision supports two scenarios for organizing your input files (search results).

#### Scenario 1: All input files in one folder

In this scenario, all search result files are in a single shared folder.

- Select the parent folder containing all input files.
- ProteoVision will automatically detect and include all compatible files.
- Subfolders within the parent folder will also be scanned.

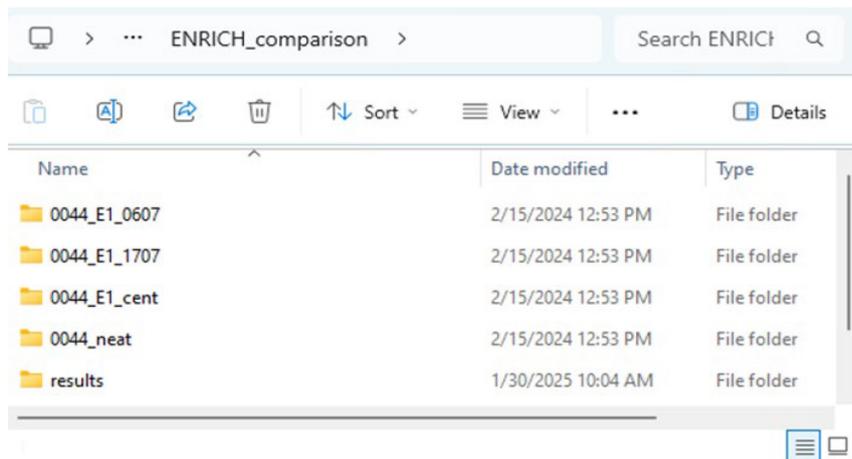
A screenshot of a Windows File Explorer window. The address bar shows the path 'LCMSperformance\_Validation' and a search box labeled 'Search LCMSp'. The ribbon includes 'Sort', 'View', and 'Details'. The file list table is as follows:

Name	Date modified	Type	Size
20241106_123709_v4_700nI_Report.tsv	11/6/2024 12:39 PM	TSV File	123,131 KB
20241106_123713_v4_1100nI_Report.tsv	11/6/2024 12:39 PM	TSV File	108,973 KB
20241106_123720_v4_1500nI_Report.tsv	11/6/2024 12:40 PM	TSV File	80,463 KB
20241106_123724_v4_1900nI_Report.tsv	11/6/2024 12:42 PM	TSV File	90,075 KB
20241106_123737_v4_2300nI_Report.tsv	11/6/2024 12:42 PM	TSV File	73,972 KB

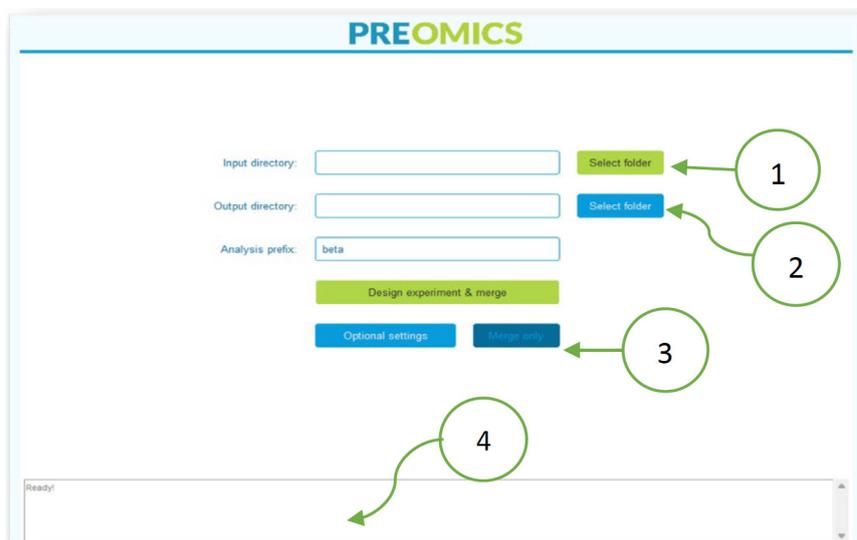
## Scenario 2: Input files in individual folders

In this scenario, input files are organized into separate folders by condition or experiment.

- Each condition has its own subfolder.
- Select the parent folder containing all condition subfolders.
- ProteoVision will automatically organize files by folder structure.
- Condition names will be derived from folder names.

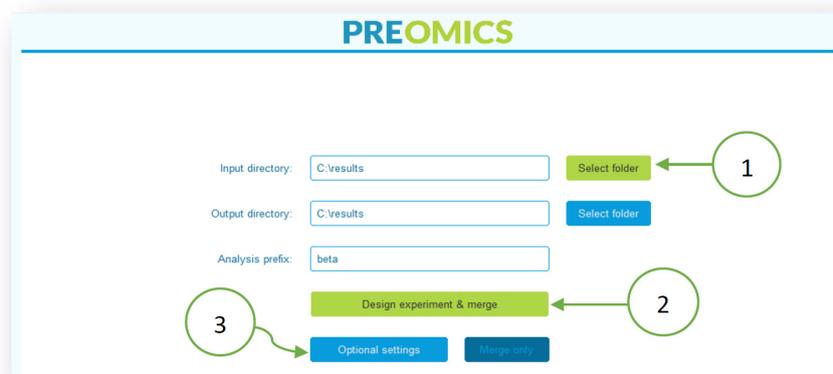


## Graphical User Interface (GUI)



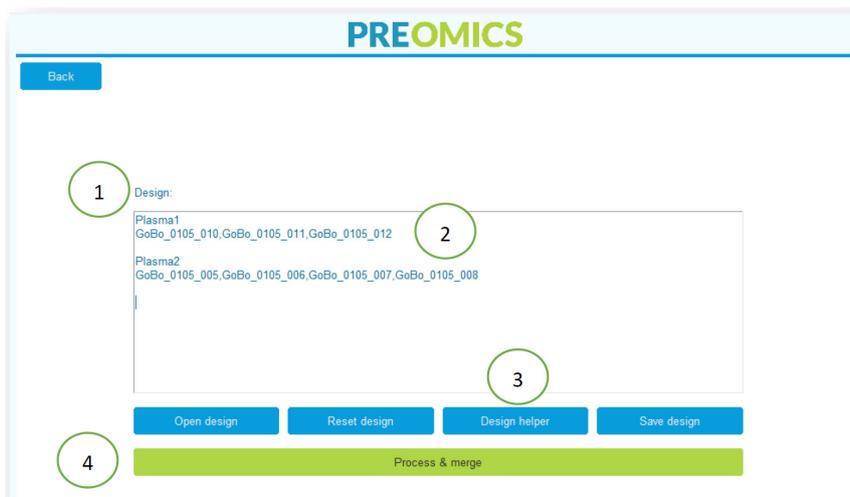
1. **Green buttons** - Necessary settings required to proceed with analysis.
2. **Blue buttons** - Optional settings for advanced customization.
3. **Inactive buttons** - Only activated when prerequisite requirements are fulfilled.
4. **Process log** - Tracks and reports progress updates in real-time.

## Getting started: Select input



1. **Select folder:** Input folder path containing SN, MQ, DIANN result files. Selecting parent folders also works.
2. **Design experiment & merge:** Reads in available results and opens design window after brief loading.
3. Please see [Optional settings](#).

## Design experiment and start



1. **Design experiment.**  
Proceed with the design derived from input / Open a previously saved design / Adjust the design in the textbox (or) Use the design helper.
2. The condition name(s) will be derived from the input file name (scenario 1) or the parent folder name (scenario 2). See page 4 for details. Condition names can also be edited directly.  
**NOTE:** Spaces between conditions are required!
3. See [Design helper](#).
4. Click "**Process and merge**".

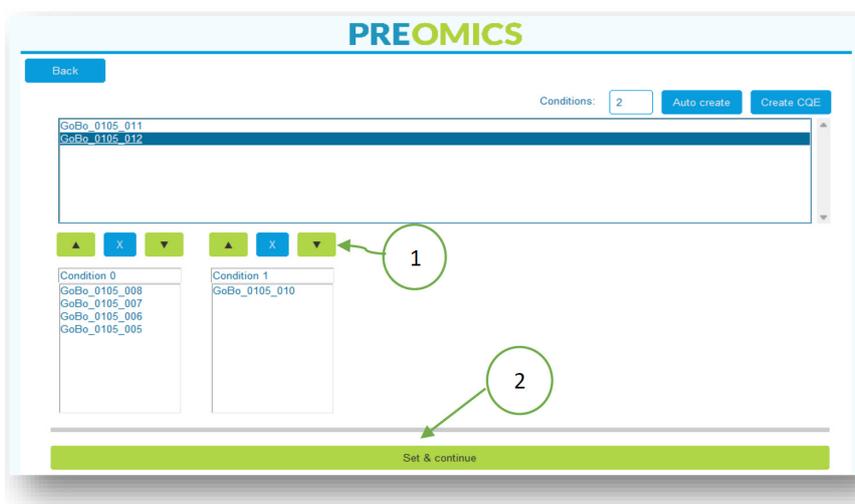
## Result and output

### Result folder structure

After processing completes, ProteoVision generates a comprehensive results folder at the specified output path, which includes the presentation of the results in an MS-PowerPoint (.pptx) file.



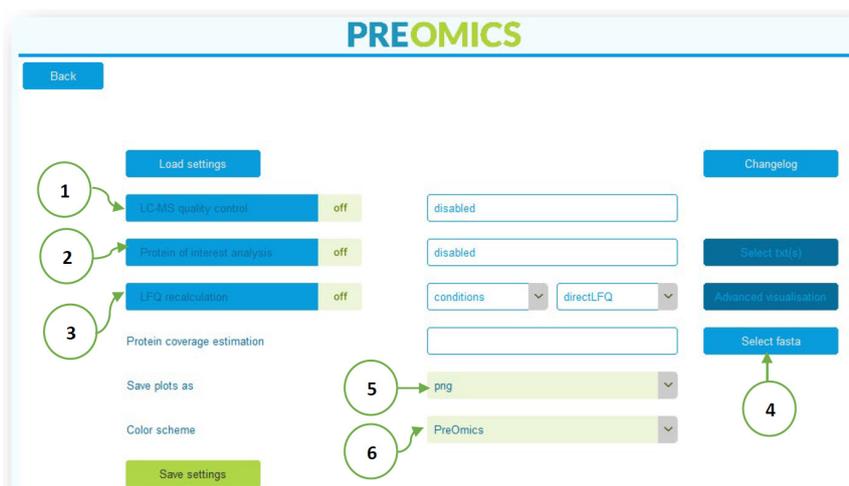
1. **Enter** desired number of experimental conditions.
2. Click **“Auto create”** to activate condition settings.
3. **Create CQE:** For analyzing CQE data, please refer to [FAQ Question 8](#) for details.



1. Name and arrange each condition with relevant LC-MS runs. Each Condition box offers three key functions:
  - i. Select LC-MS runs in the condition box and move them up (click arrow up).
  - ii. Delete the condition and bring existing LC-MS runs back to the main list.
  - iii. Move selected LC-MS runs in the main list to the Condition box (select the runs and click arrow down).
2. Click **“Set & continue”** to confirm the desired experimental design and proceed.
 

**NOTE:** In any list box, multiple LC-MS runs can be selected using click & drag.

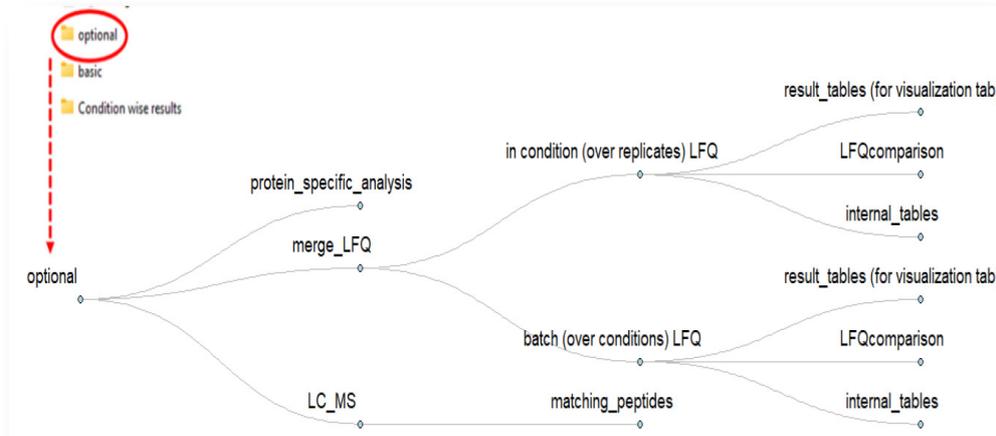
## Optional settings:



1. Activate LC-MS performance analysis and set the cycle time.
2. Activate protein of interest (POI) analysis and select \*.txt files with target proteins.
3. Activate LFQ recalculation (of Precursor.Quantity) and select whether it should be performed across “replicates” or “conditions” using “directLFQ” or “MaxLFQ”.
4. Upload a FASTA file for optional protein coverage plots.
5. Choose the file format for saving plots.
6. Select the color scheme for plots.

## Optional output:

Based on your optional settings selections, ProteoVision generates additional output files in the results folder.



## Generated optional output:

Based on your settings, additional files are generated:

- Protein\_specific\_analysis
- Merge\_LFQ
- LC\_MS

## Feedback, questions & contact

### Get support

We're here to help you get the most out of ProteoVision!

### Support channels

- **Email:** [Feedback.ProteoVision@preomics.com](mailto:Feedback.ProteoVision@preomics.com)
- **FAQs:** [Consult the ProteoVision™ FAQs](#)
- **Website:** [www.preomics.com/products/teovision](http://www.preomics.com/products/teovision)

### What to include in your message

To help us assist you efficiently, please include:

1. ProteoVision version number.
2. Brief description of your issue or question.
3. Error messages or screenshots (if applicable).
4. Input file format and search engine used.