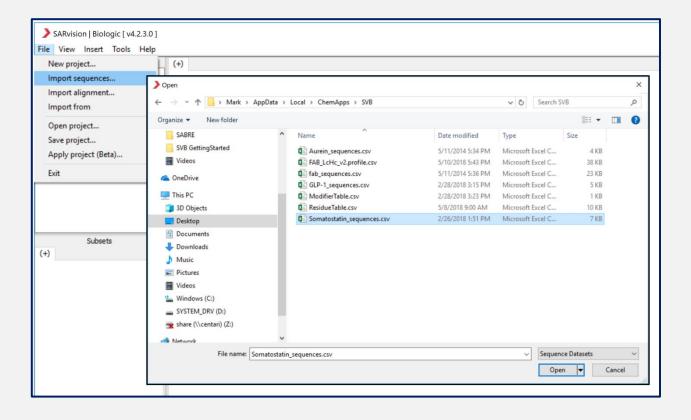
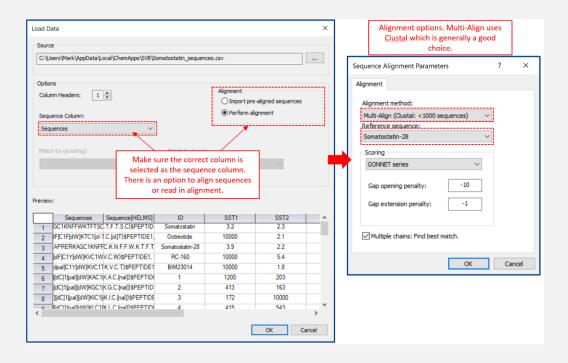
Mastering the Sequence Table in SARvision Biologics

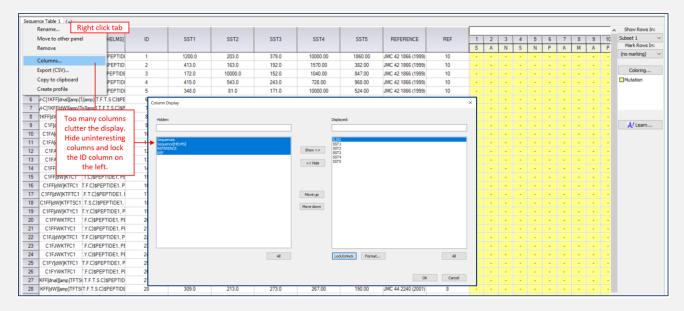
1. Import some sequences to analyze. Under Tools->open resource folder are located some example files that you can experiment. In this example we will use the somatostatin example dataset (Somatostatin_sequences.csv). Under main menu->Import sequences... open a sequence file.



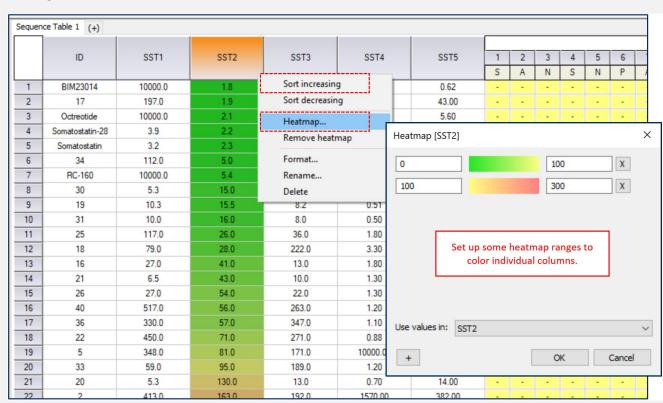
2. After loading, SARvision|biologics will display an import UI so that the proper parsing can be performed and the sequence identified. The sequence column defaults to a column that contains "Sequence" in the name. The decision to align sequences or import sequence alignment (sequences that contain '-' in them) is made here. The UI is the alignment UI for the user to choose the reference sequence, the alignment method and parameters to use in alignment.



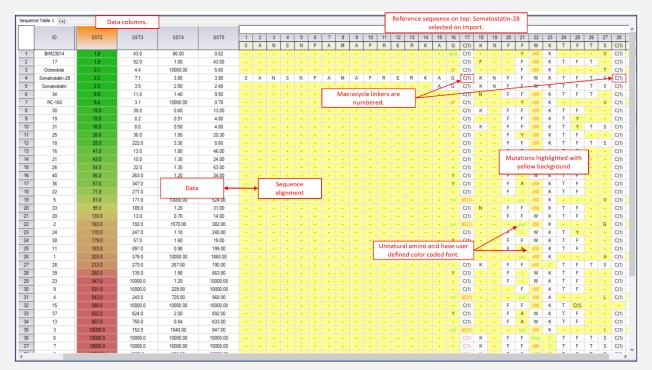
3. Under right click on the Sequence Table Table tab -> Columns... and unclutter the Sequence table view by hiding unnecessary columns and locking the ID column on the left.



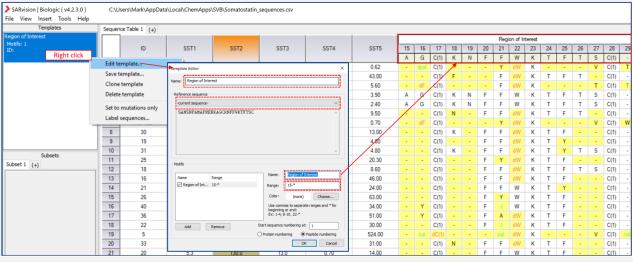
4. Right click on data column to add some *heatmaps* and to *sort* columns.



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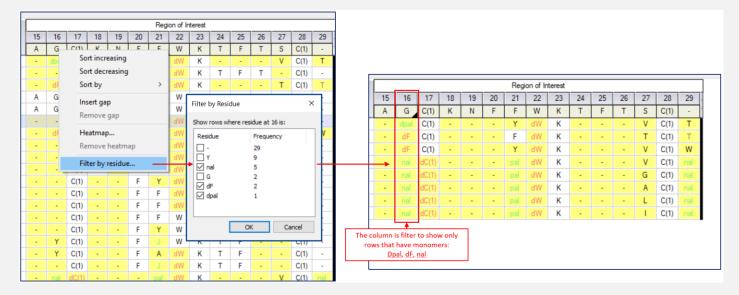


- 5. The sequence table should look something like what is shown below.
- 6. Since there is only one sequence that has an N-terminal tail on the peptide, the first 15 or so residues at not very interesting. The view can be filtered down to only the region of the alignment (Region of Interest) that is interesting. Right click in the Templates box and Edit template.... Change the range to "15-*" or position 15 to the end of the sequence. The

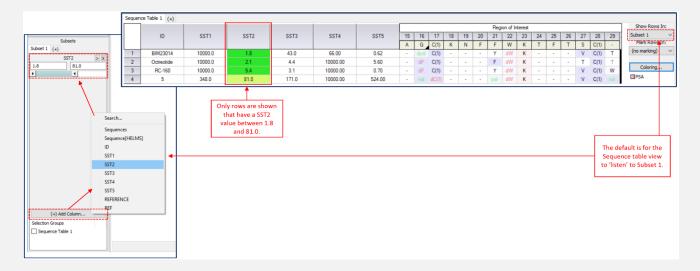


reference sequence can be change in the drop down box. The text displayed at the top of the alignment can be changed here as well.

7. Create Residue/monomer filters for sequence alignment columns. Right click on a column and select Filter by residue.... The user can choose to display/hide rows based on the residue in this position of the alignment. Note that one can apply filters to multiple columns and filter by sequence motifs.



8. Add addition filters using the Subset filter panel. Cick on the (+) Add Column... in the lower left corner and add a property column (SST2). In the top part of the Subset panel a range filter gets added and the user can manually set a range to filter the table by. Because the



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Show Rows In: is set to <u>Subset1</u> in the right had control of the Sequence table view, the rows will be filtered by the settings in <u>Subset 1</u>. Note that there are now two filtering schemes being applied the Sequence Table. First the table is filtered by column 16 residues selected by the user and second by the Subset 1 filter settings.

For more information please contact us at info@altoris.com