



Rowan Patents Drafting  
Life and Material Sciences  
Large Molecule Support

# Table of Contents

<b>Accessing Life and Materials Sciences Features</b>	<b>2</b>
<b>Sequence Management</b>	<b>3</b>
Importing Sequences from a Spreadsheet	3
Importing Sequences from an ST.25 Text File	5
Adding an Individual Sequence	6
Deleting a Sequence	7
Editing a Sequence	8
Inserting Sequence Information into an Application	9
Consistency Review	11
Export to ST.25 or ST.26 Format	12
<b>Ranges and Combinations</b>	<b>13</b>
Inserting Number Ranges	13
Inserting Combinations of Items	15
<b>Support and Feedback</b>	<b>18</b>

## Accessing Life and Materials Sciences Features

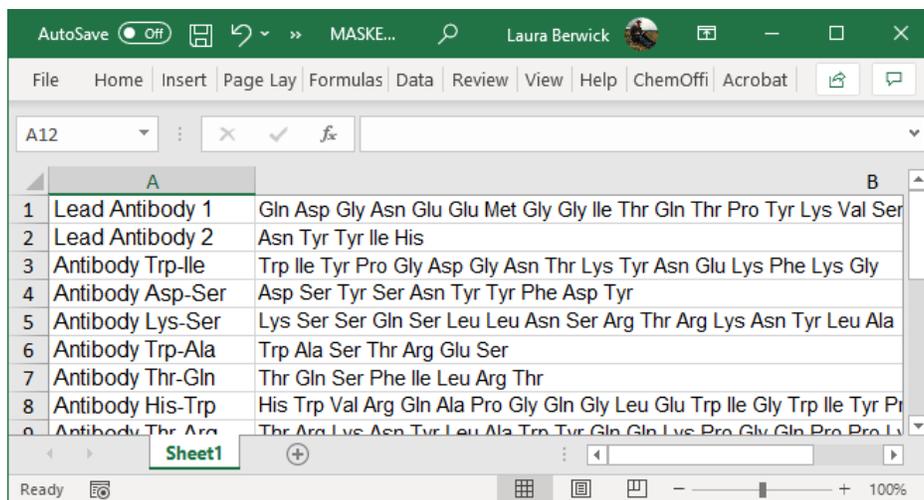
Rowan drafting features supporting patent applications in the fields of life and material sciences, such as chemistry, pharmaceuticals, and biotechnology, are not currently available as part of our general Rowan Patents drafting release, but can be provided to users interested in helping us exercise and improve functionality designed for these fields. If you or your colleagues want to learn more about our life and materials science features and perhaps become beta-testers, please contact Tracy Campbell at [tcampbell@rowantels.com](mailto:tcampbell@rowantels.com).

This document focuses on features we've designed to support these particular fields of invention. Information on Rowan Patents drafting's general functionality is available in the [Rowan Patents Drafting Complete User Manual](#).

# Sequence Management

## Importing Sequences from a Spreadsheet

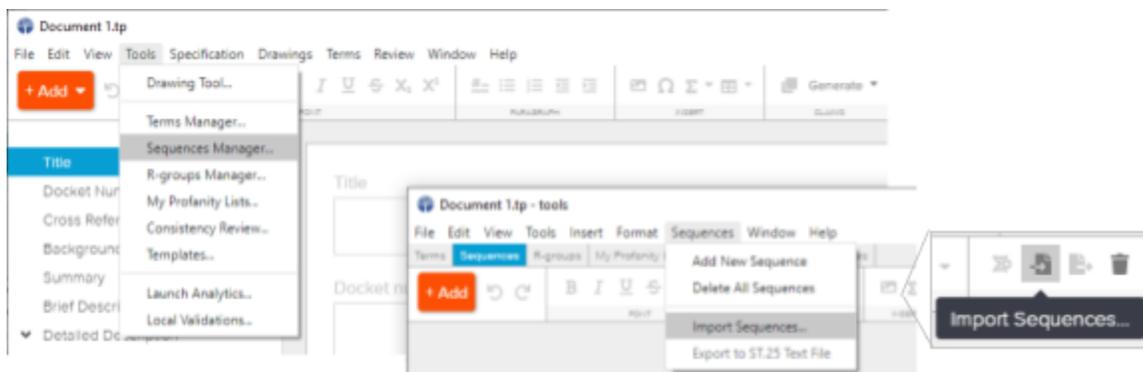
1. Collect your sequences in an .xlsx spreadsheet, with short, memorable names in column A and the sequence contents in column B.



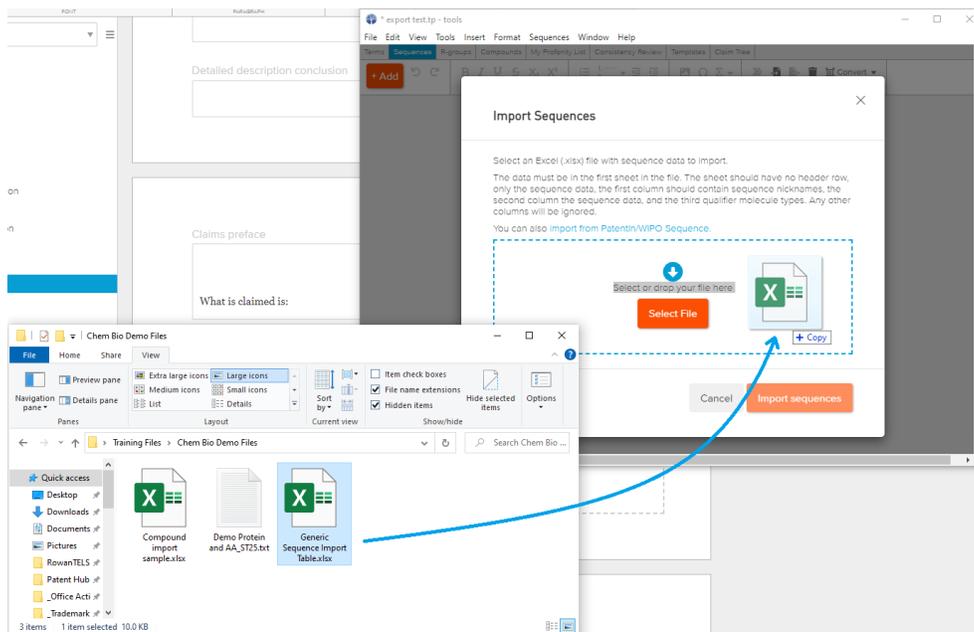
The screenshot shows an Excel spreadsheet with two columns, A and B. Column A contains names of antibodies, and column B contains their corresponding amino acid sequences. The data is as follows:

	A	B
1	Lead Antibody 1	Gln Asp Gly Asn Glu Glu Met Gly Gly Ile Thr Gln Thr Pro Tyr Lys Val Ser
2	Lead Antibody 2	Asn Tyr Tyr Ile His
3	Antibody Trp-Ile	Trp Ile Tyr Pro Gly Asp Gly Asn Thr Lys Tyr Asn Glu Lys Phe Lys Gly
4	Antibody Asp-Ser	Asp Ser Tyr Ser Asn Tyr Tyr Phe Asp Tyr
5	Antibody Lys-Ser	Lys Ser Ser Gln Ser Leu Leu Asn Ser Arg Thr Arg Lys Asn Tyr Leu Ala
6	Antibody Trp-Ala	Trp Ala Ser Thr Arg Glu Ser
7	Antibody Thr-Gln	Thr Gln Ser Phe Ile Leu Arg Thr
8	Antibody His-Trp	His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile Gly Trp Ile Tyr Pr
9	Antibody Thr Arg	Thr Arg Lys Asp Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro L

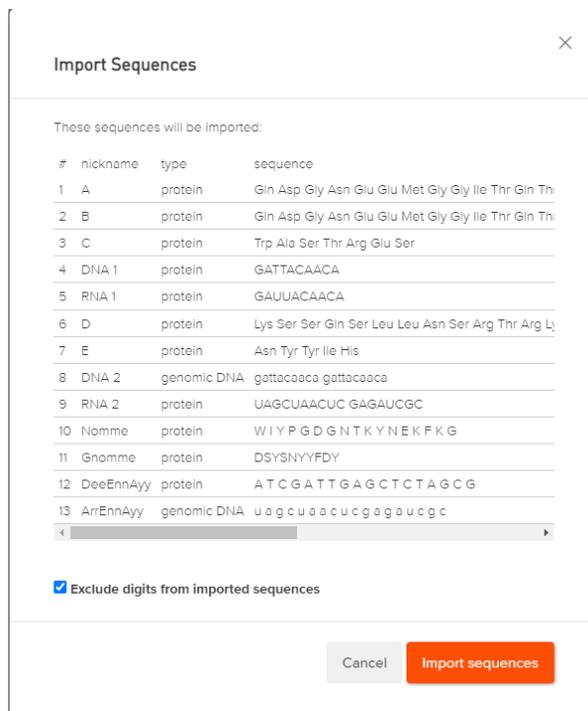
2. Open the Sequence Manager under the Tools menu and select Import Sequences... from the Sequences menu in the Sequence Manager or the Import Sequences button in the Sequence Manager Toolbar.



3. Drag your sequence spreadsheet onto the import dialog.



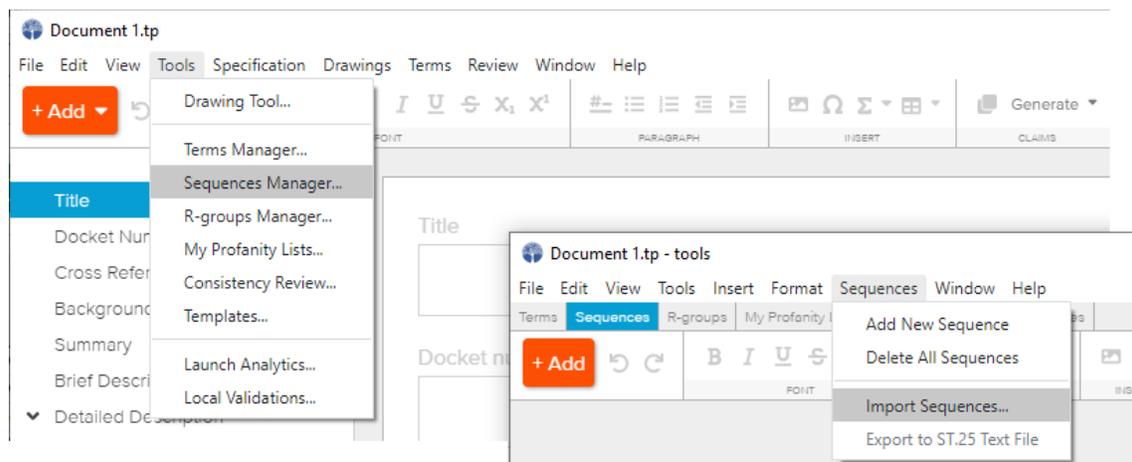
4. Review your imported data and confirm or cancel the import.



➤ Numbering is automatically assigned for use in SEQ ID NO labels.

## Importing Sequences from an ST.25 Text File

1. Open the Sequence Manager under the Tools menu and select Import Sequences... from the Sequences menu in the Sequence Manager.



2. Select the "import from PatentIn/WIPO Sequence" option.

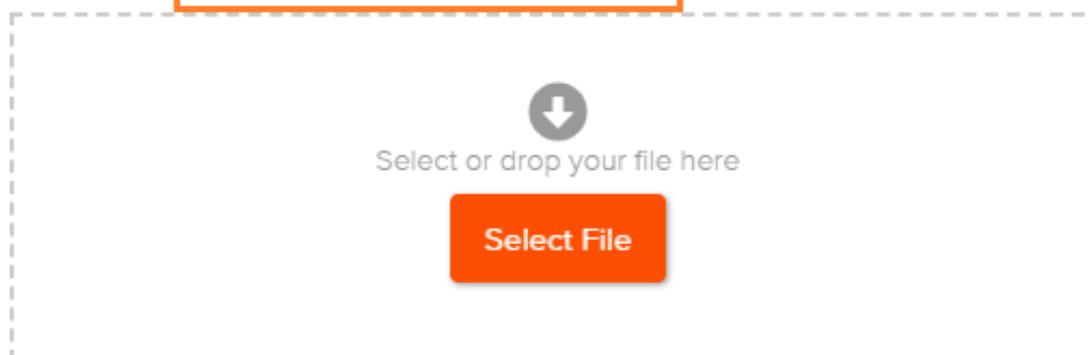
### Import Sequences

Select an Excel (.xlsx) file with sequence data to import.

The data must be in the first sheet in the file. The sheet should have no header row, only the sequence data, the first column should contain sequence nicknames and the second column the sequence data. Any other columns will be ignored.

The imported sequences will be appended to the end of the existing list of sequences.

You can also [import from PatentIn/WIPO Sequence.](#)



3. Paste text into the top field or drag and drop a .txt file into the dialog provided.

The 'Import Sequences' dialog box features a title bar with a close button (X). Below the title, there is a text area for pasting text and a dashed box for file selection. The dashed box contains a downward arrow icon and the text 'Select or drop your file here', with an orange 'Select File' button below it. At the bottom of the dialog, there are two buttons: a grey 'Cancel' button and an orange 'Import sequences' button.

4. Click the Import sequences button.

## Adding an Individual Sequence

1. To add an individual sequence, open the Sequences Manager, and click the +Add button..

The 'Add Sequence' dialog box has a title bar with a close button (X). It contains a 'Nickname' text field with 'genome 1' entered. Below this is the 'Molecule type' section with three radio buttons: 'Amino Acid', 'DNA' (which is selected), and 'RNA'. There is also a 'DNA/RNA' radio button. Underneath is a 'Qualifier molecule type' dropdown menu with 'genomic DNA' selected. The dropdown menu is open, showing three options: 'genomic DNA' (highlighted in blue), 'other DNA', and 'unassigned DNA'. At the bottom right, there are two buttons: a grey 'Cancel' button and an orange 'Save' button.

2. Enter a nickname for the sequence.

3. Select a molecule type and qualifier molecule type from the options provided.
4. Click the Save button.
5. Type or paste the contents of your sequence into the field provided in the Sequence Manager window.

12 - Lead Antibody 3 (protein)

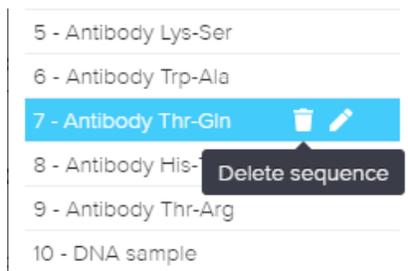
Created: May 24, 2022 10:57 

```
Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly Glu Arg Ala Thr Ile
Asn Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser Arg Thr Arg Lys Asn Tyr Leu Ala Trp
Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser
Gly Val Pro Asp Arg P|
```

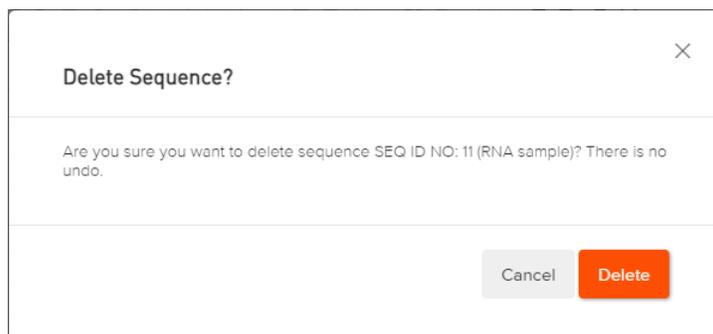
6. Click the flag icon to the upper right to flag and unflag lead sequences.
- Flagging a sequence does not add data to any exported application files, but allows identification of important sequences within Rowan drafting for future reference.

## Deleting a Sequence

1. To delete a sequence, click the trash bin icon in the listing to the left.

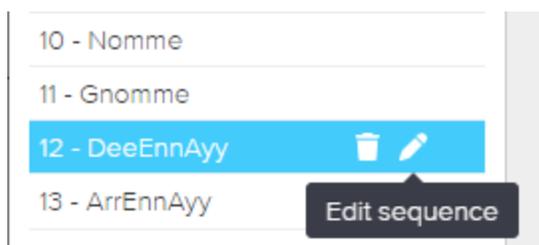


2. Confirm deletion in the resulting dialog.

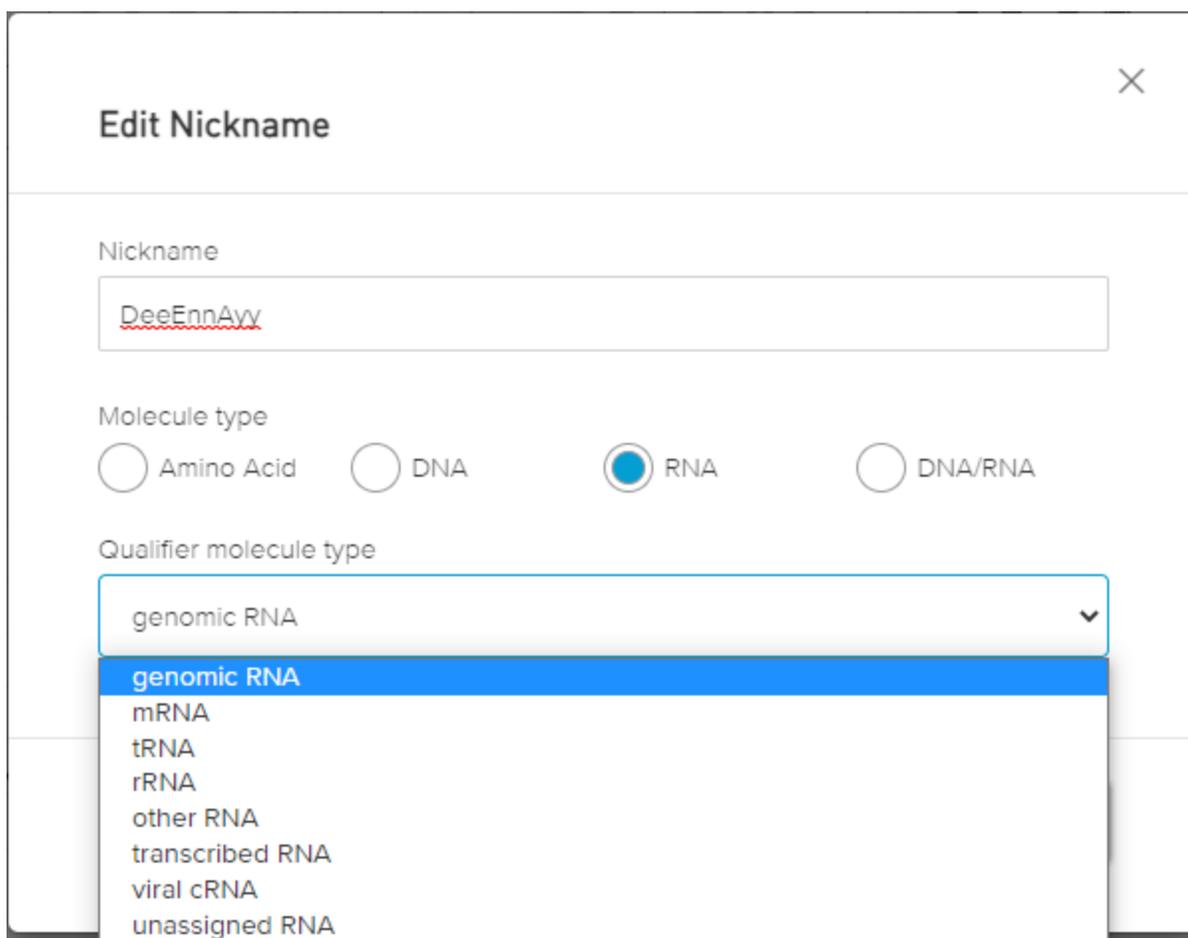


## Editing a Sequence

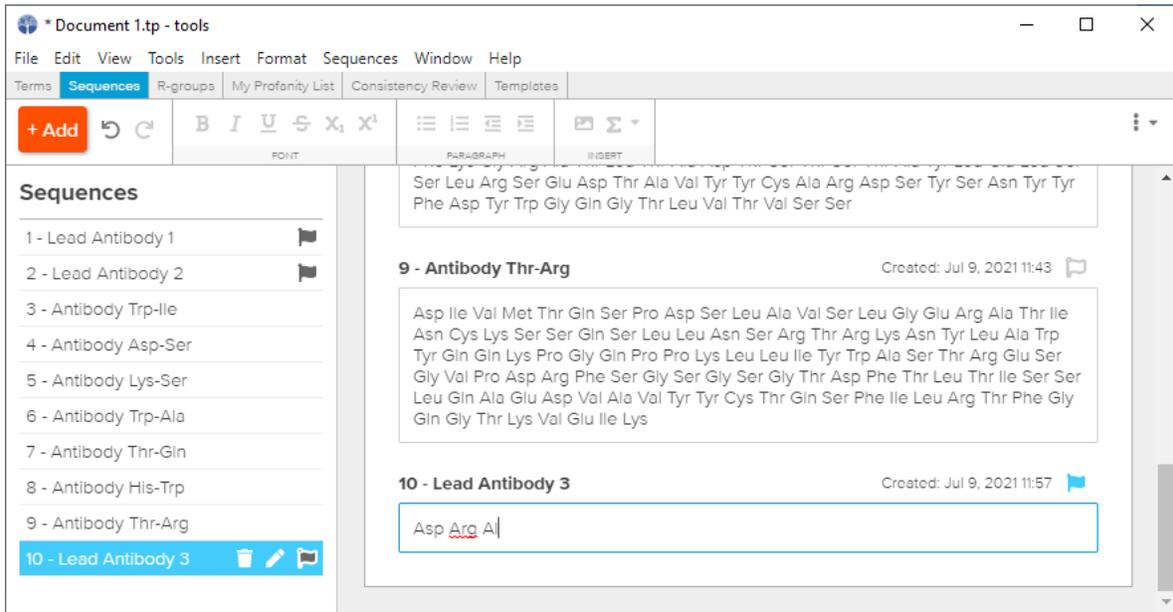
1. To edit the sequence nickname, molecule type, and qualifier molecule type, click the pencil icon next to the sequence listing to the right.



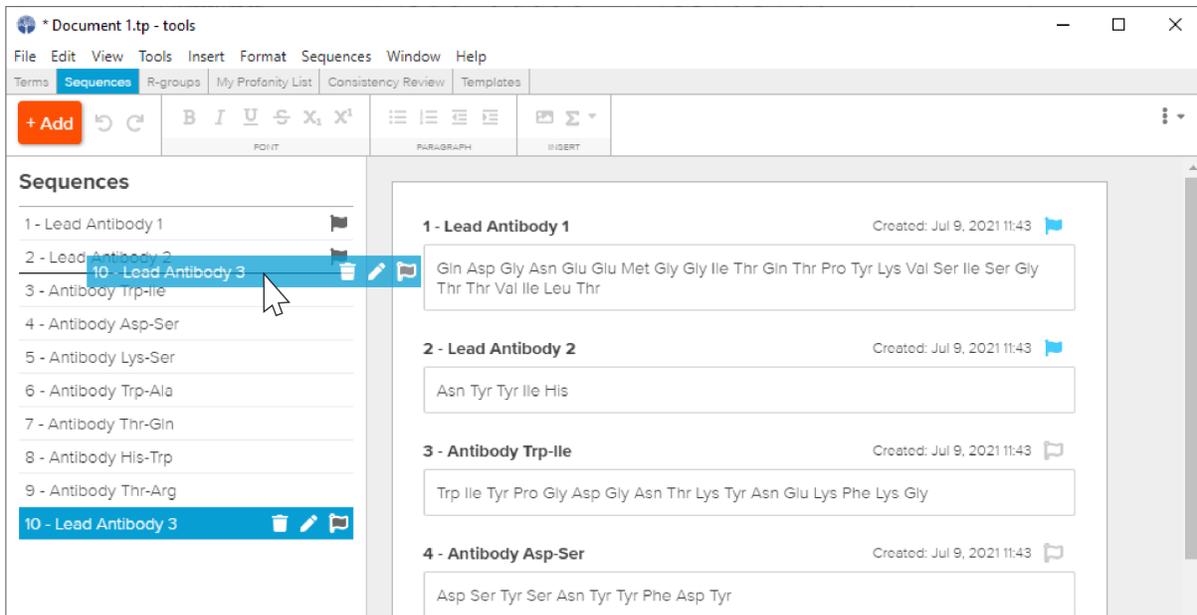
2. Make the desired updates in the dialog provided.

A screenshot of a dialog box titled 'Edit Nickname'. The dialog has a close button (X) in the top right corner. It contains a text input field for the 'Nickname' with the text 'DeeEnnAyy' and a red underline. Below this are radio buttons for 'Molecule type': 'Amino Acid', 'DNA', 'RNA' (which is selected), and 'DNA/RNA'. Below the radio buttons is a dropdown menu for 'Qualifier molecule type' with the following options: 'genomic RNA', 'mRNA', 'tRNA', 'rRNA', 'other RNA', 'transcribed RNA', 'viral cRNA', and 'unassigned RNA'. The 'genomic RNA' option is currently selected and highlighted in blue.

3. To edit sequence data, edit the text directly in the Sequence Manager field provided.



4. To change the numbering and order of sequences, drag and drop sequences into the desired order in the left-hand listing.



➤ Any changes made to sequence name and numbering will be automatically updated throughout the application where used to reflect your changes.

5. Click the flag icon to the upper right to flag and unflag lead sequences.

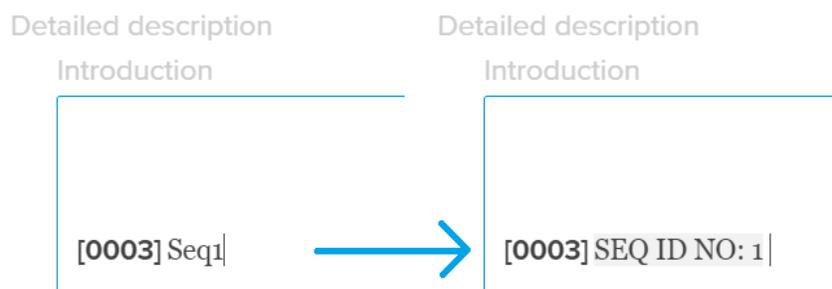
The screenshot shows a software interface titled "Document 1.tp - tools" with a menu bar (File, Edit, View, Tools, Insert, Format, Sequences, Window, Help) and a toolbar. The "Sequences" tab is active. On the left, a "Sequences" list contains 10 items, each with a flag icon. On the right, a detailed view shows five sequences:

- 1 - Lead Antibody 1** (Created: Jul 9, 2021 11:43) with a blue flag icon. Sequence: Gln Asp Gly Asn Glu Glu Met Gly Gly Ile Thr Gln Thr Pro Tyr Lys Val Ser Ile Ser Gly Thr Thr Val Ile Leu Thr
- 2 - Lead Antibody 2** (Created: Jul 9, 2021 11:43) with a blue flag icon. Sequence: Asn Tyr Tyr Ile His
- 3 - Lead Antibody 3** (Created: Jul 9, 2021 11:57) with a blue flag icon. Sequence: Asp Arg Al
- 4 - Antibody Trp-Ile** (Created: Jul 9, 2021 11:43) with a grey flag icon. Sequence: Trp Ile Tyr Pro Gly Asp Gly Asn Thr Lys Tyr Asn Glu Lys Phe Lys Gly
- 5 - Antibody Asp-Ser** (Created: Jul 9, 2021 11:43) with a grey flag icon. Sequence: Asp Ser Tyr Ser Asn Tyr Tyr Phe Asp Tyr

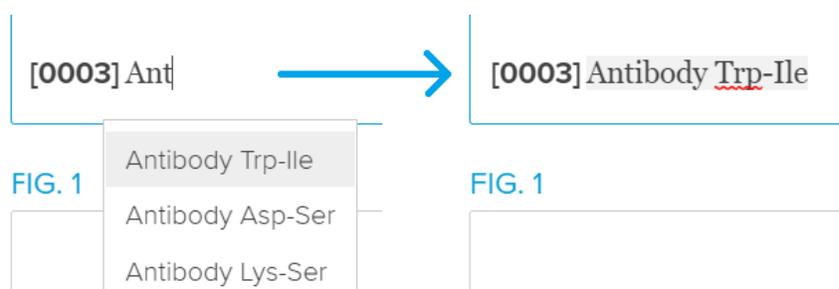
➤ Flagging a sequence does not add data to any exported application files, but allows identification of important sequences within Rowan drafting for future reference.

## Inserting Sequence Information into an Application

Sequence ID labels can be added using a typing shortcut. Type “seq” followed immediately by the sequence number and type space. The entered text will be replaced by the sequence ID tag having the typed number.



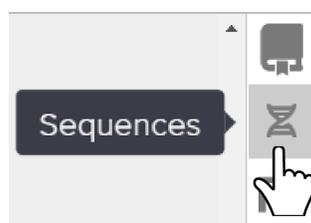
Insert a sequence nickname by typing the start of the name and selecting the desired option from the dropdown, or finish typing the nickname, hit space, and the nickname will be tagged.



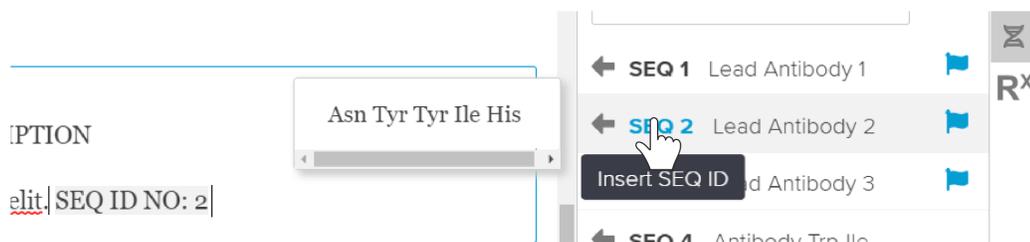
➤ Sequence ID labels are also available in the autocomplete menu.

SEQ ID labels, nicknames, and full sequences can be inserted using the right-hand sidebar.

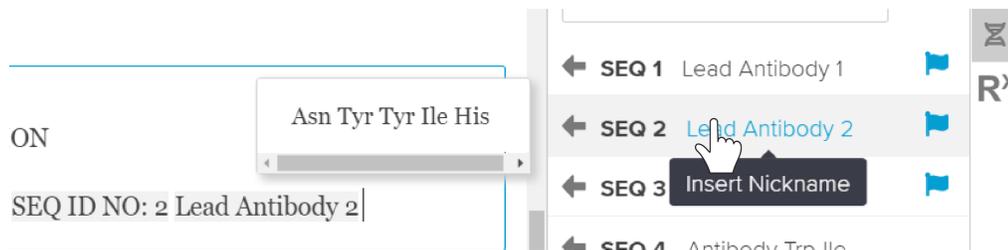
1. Expand the sequence panel in the right-hand sidebar by clicking the icon on the right side of the drafting window.



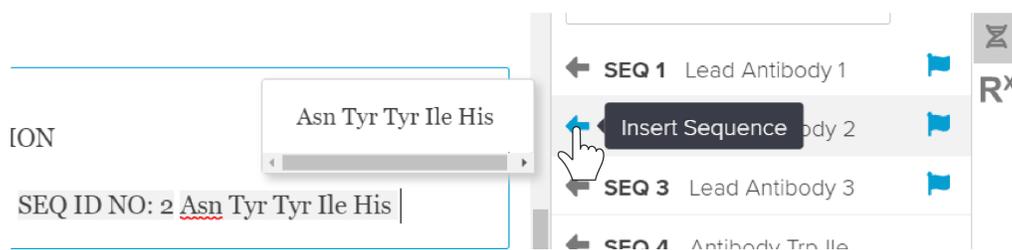
2. Click the “SEQ ID” label to insert the label.



3. Click the nickname to insert the nickname.

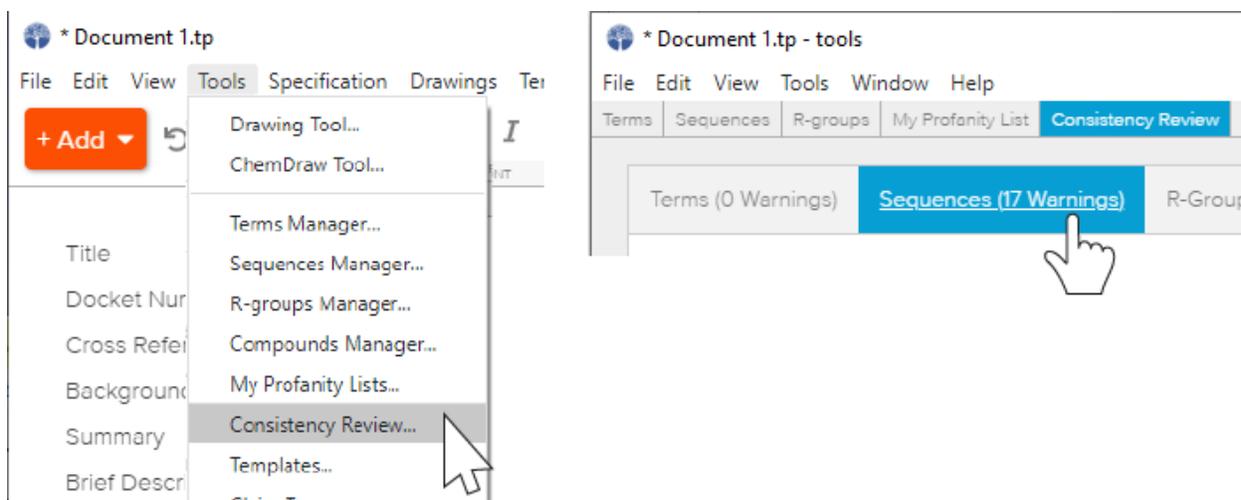


4. Click the arrow to insert the full sequence.

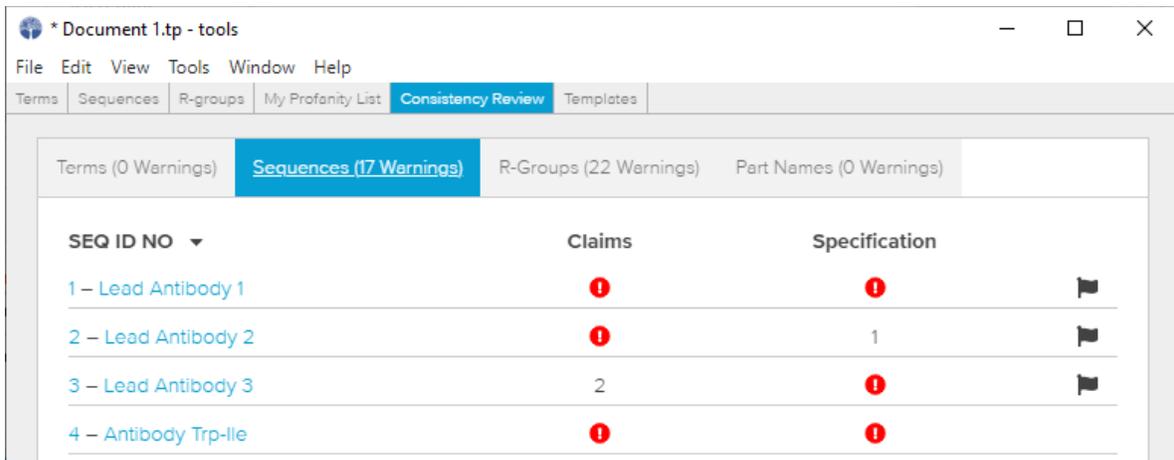


## Consistency Review

1. Select "Consistency Review" in the Tools menu, and click the Sequences tab.



2. Review presence of sequences in claims and spec as needed.



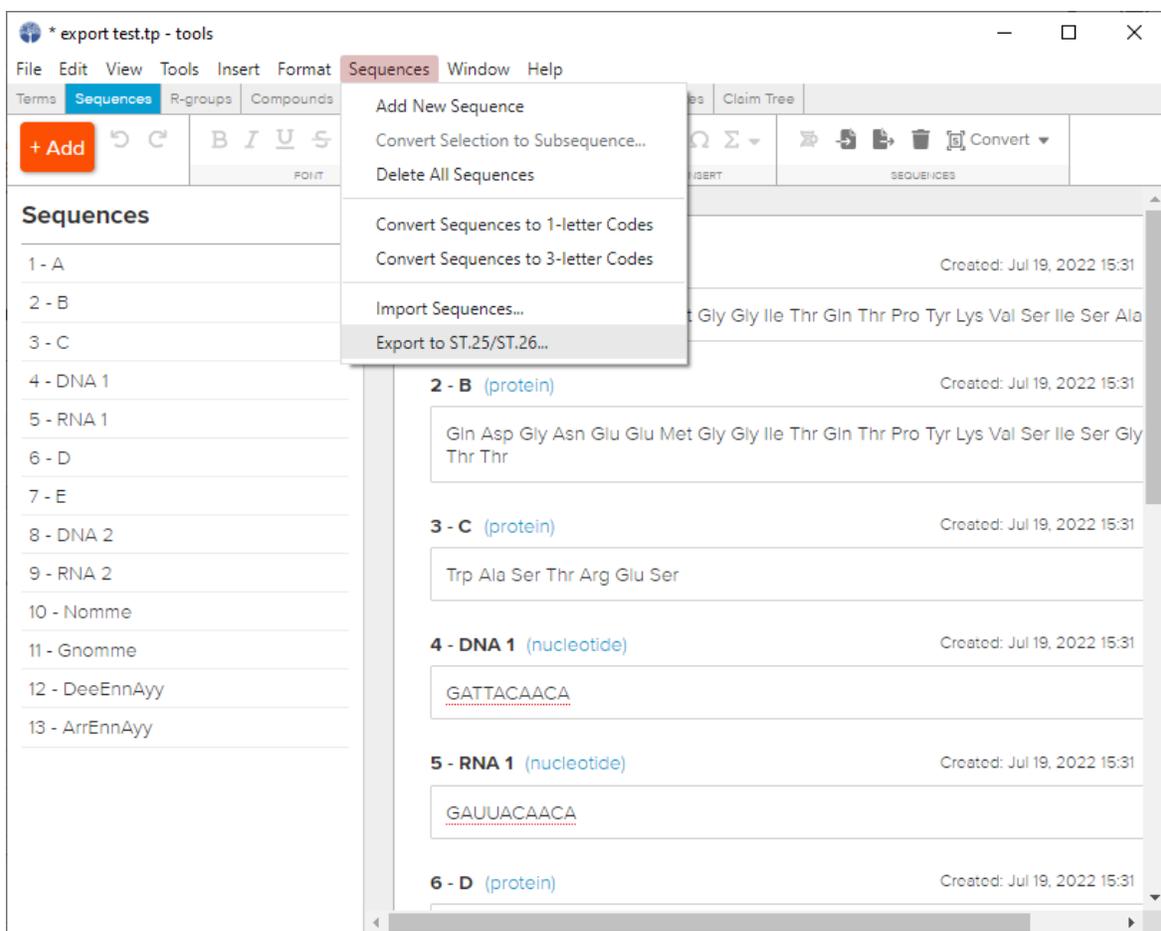
The screenshot shows a software window titled '\* Document 1.tp - tools' with a menu bar (File, Edit, View, Tools, Window, Help) and a toolbar (Terms, Sequences, R-groups, My Profanity List, Consistency Review, Templates). Below the toolbar, there are tabs for 'Terms (0 Warnings)', 'Sequences (17 Warnings)', 'R-Groups (22 Warnings)', and 'Part Names (0 Warnings)'. The 'Sequences (17 Warnings)' tab is active, displaying a table with the following data:

SEQ ID NO	Claims	Specification	
1 - Lead Antibody 1	1	1	🚩
2 - Lead Antibody 2	1	1	🚩
3 - Lead Antibody 3	2	1	🚩
4 - Antibody Trp-Ile	1	1	🚩

## Export to ST.25 or ST.26 Format

**ROWAN PATENTS DOES NOT INTEND TO PRODUCE A SEQUENCE LISTING THAT IS READY-TO-FILE WITH THE USPTO. OUR EXPORTED FILE SHOULD BE IMPORTED INTO THE PATENT IN TOOL TO PREPARE A READY-TO-FILE LISTING.**

1. Select the Sequences Manager from the Tools menu.
2. Select "Export to ST.25/ST.26" from the Sequences menu.



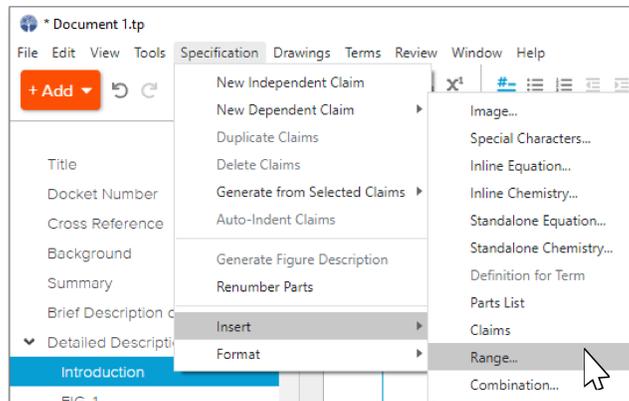
3. Click the desired button for Export to ST.25 or Export to ST.26 in the warning window and save your file in the dialog provided.

- The warning window provides a notice similar to that at the top of this section, and the default filing name includes “Not for Filing” or similar text. We recommend when naming this file you preserve this warning to prevent mistakes at time of filing.

## Ranges and Combinations

### Inserting Number Ranges

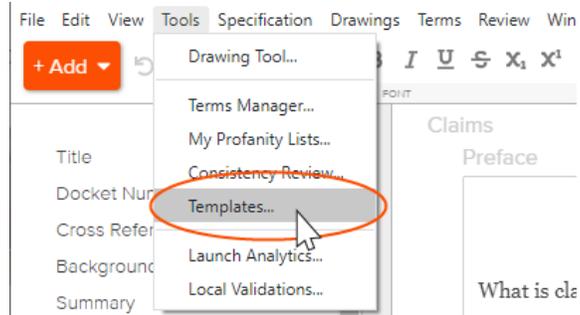
1. Select “Insert” and “Range...” from the Specification menu in the main drafting window.



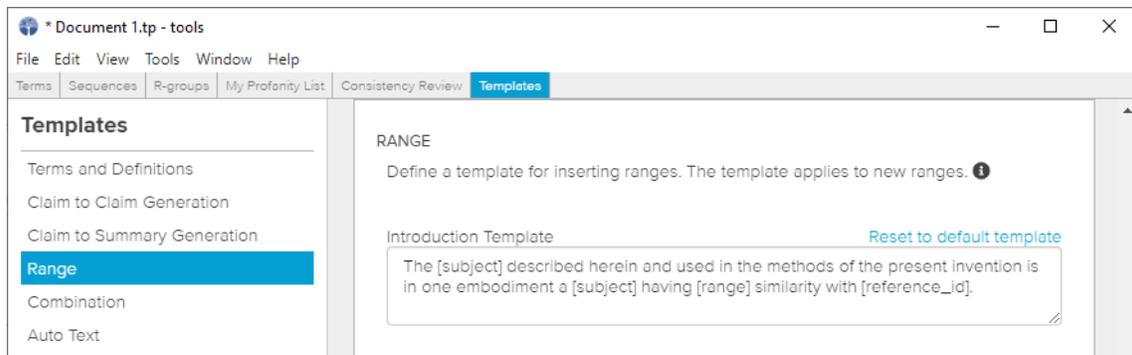
2. Enter the desired parameters. Click Generate to view a preview. Click Insert to place the range(s) created at your cursor location.

- The text generated for preview can be directly edited in the preview field if desired before inserting.

3. To modify the template used to construct the text containing the ranges you create, select "Templates" from the Tools menu.



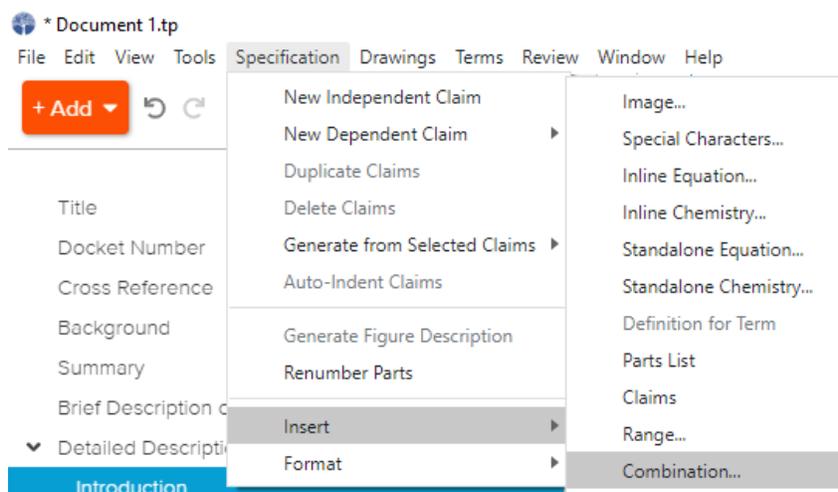
4. Scroll down to the Range section (or click the Range listing in the left-hand sidebar), and make the desired changes to your template.



- Modified template text will be stored as part of your user set up. Changes made in one application will be reflected across newly inserted ranges in all applications.
- Ranges that have already been inserted will not be updated by template changes.

## Inserting Combinations of Items

1. To create and insert a set of combinations of items, select “Insert” and “Combination...” from the Specification menu in the main drafting window.



2. Include a subject comprising the combined items, include a list of items, define the parameters of your desired combinations, and click Generate to see a text preview.

The 'Insert Combination' dialog box is shown. It has a title bar with a close button (X). The 'Subject' field contains 'invented compound'. Below it, a text input field is labeled 'Enter or paste a list of items, one per line.' The 'Items' section is a table with a 'must include' column and checkboxes for each item:

Items	must include
Item A	<input type="checkbox"/>
Item B	<input type="checkbox"/>
Item C	<input checked="" type="checkbox"/>
Item D	<input checked="" type="checkbox"/>
Item E	<input type="checkbox"/>
Item F	<input type="checkbox"/>

Below the table, the 'Combination Size (select one or more)' section has radio buttons for 1, 2, 3, 4, 5, 6, and 7. The '5' radio button is selected. The 'Separator' field contains a period '.'. At the bottom, there is a 'Preview' label and a 'Generate' button.

- Review your text preview, and click Insert to place the generated text at your cursor location.

### Insert Combination ✕

Subject

Enter or paste a list of items, one per line.

Items	must include
Item A	<input type="checkbox"/>
Item B	<input type="checkbox"/>
Item C	<input checked="" type="checkbox"/>
Item D	<input checked="" type="checkbox"/>
Item E	<input type="checkbox"/>
Item F	<input type="checkbox"/>

Combination Size (select one or more)

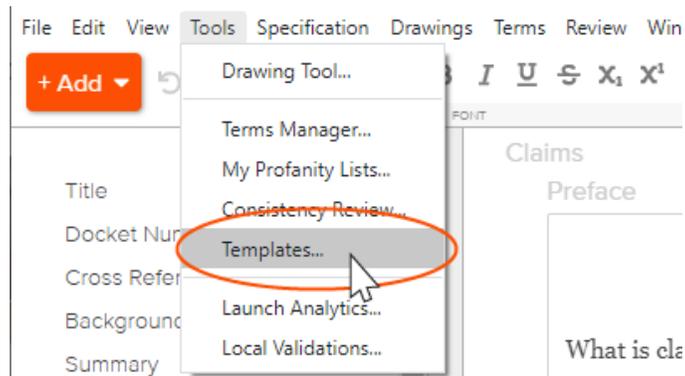
Separator

Preview Generate

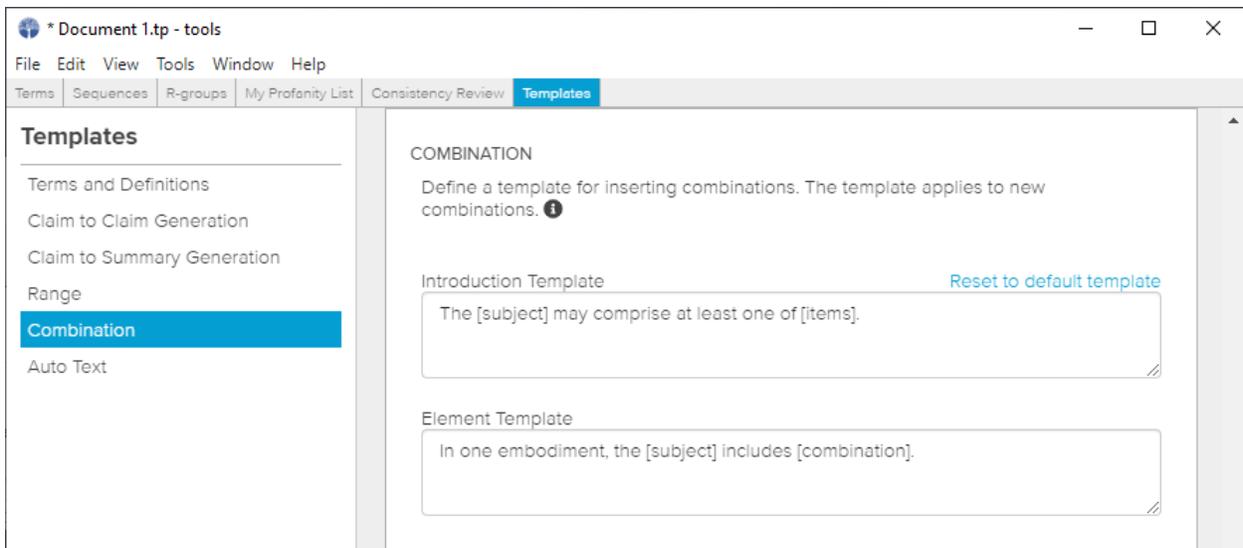
The invented compound may comprise at least one of Item A, Item B, Item C, Item D, Item E, Item F, Item G. In one embodiment, the invented compound includes Item A, Item B, Item C, Item D, Item E. In one embodiment, the invented compound includes Item A, Item B, Item C, Item D, Item F. In one embodiment, the invented compound includes Item A, Item B, Item C, Item D, Item G. In one embodiment, the invented compound includes Item A, Item C, Item D, Item E, Item F. In one embodiment, the invented compound includes Item A, Item C, Item D, Item E, Item G. In one embodiment, the invented compound includes Item A, Item C, Item D, Item F, Item G. In one embodiment, the invented compound includes Item B, Item C, Item D, Item E, Item F. In one embodiment, the invented compound includes Item B, Item C, Item D, Item E, Item G. In one embodiment, the invented compound includes Item B, Item C, Item D, Item F, Item G. In one embodiment, the invented compound includes Item C, Item D, Item E, Item F, Item G.

Hint: To edit the boilerplate text go to the menu "Tool/Templates" or click [here](#).

4. To modify the template used to construct the text containing the combinations you create, select “Templates” from the Tools menu.



5. Scroll down to the Combination section (or click the Combination listing in the left-hand sidebar), and make the desired changes to your template.

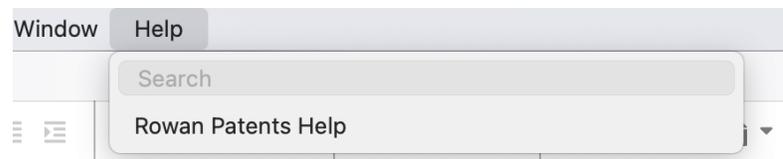


- Modified template text will be stored as part of your user set up. Changes made in one application will be reflected across newly inserted combinations in all applications.
- Combinations that have already been inserted will not be updated by template changes.

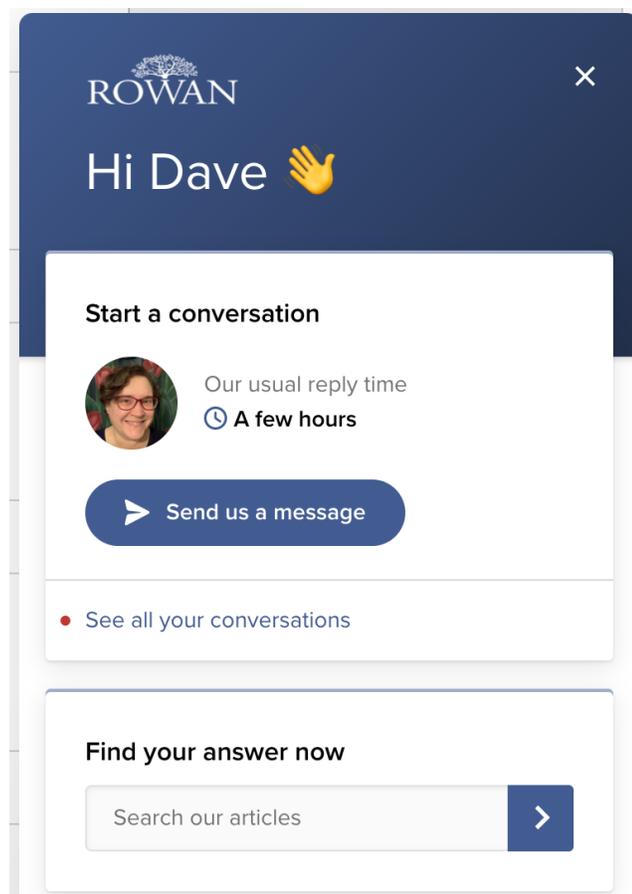
# Support and Feedback

You can use our in-tool Help interface to search or browse our support articles or contact us with questions and feedback.

1. Click on the Help menu item and select Rowan Patents Help...



2. This invokes a panel in which you can send us a message, or search for answers in our support articles.



- Several Rowan product team members monitor the chat and will respond at least by the next business day, and typically within a couple of hours.