DNAMAN
Sequence Analysis Software

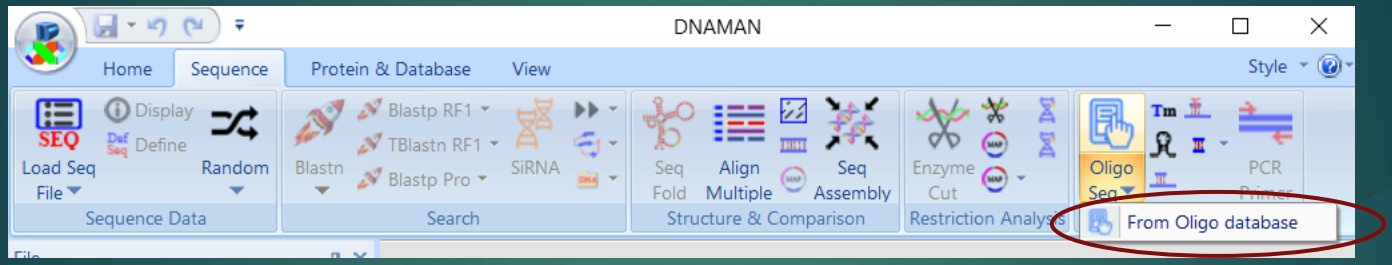
Oligo Sequences Analysis and PCR Primers

BIOINFORMATICS PLATFORM

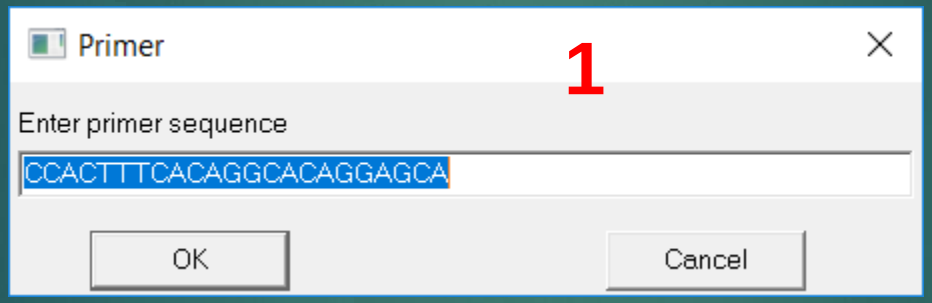
Oligo Sequences and PCR Primers

- Oligo Sequence Analysis
- Oligo Secondary Structure
- PCR Primers

Enter Oligo Sequence



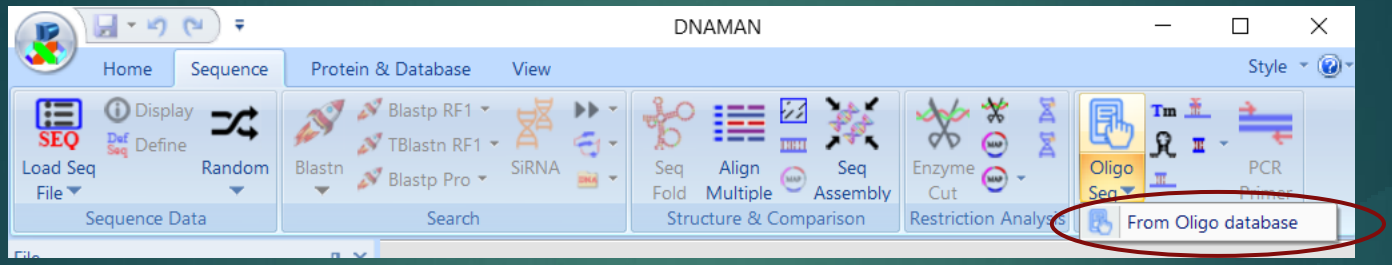
2



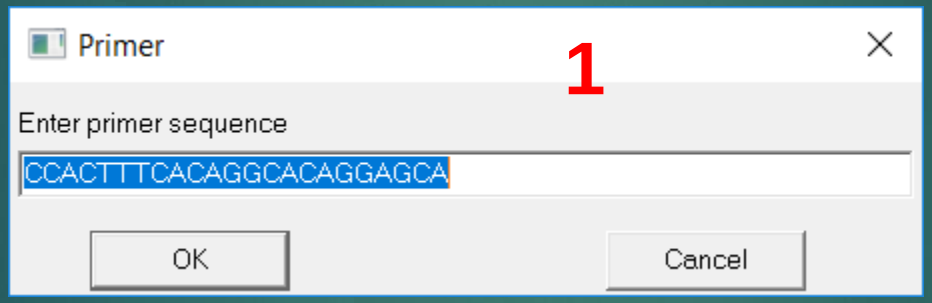
Oligo sequence can be entered:

1. Directly from Enter box
2. From Oligo database

Enter Oligo Sequence



2



Oligo sequence can be entered:

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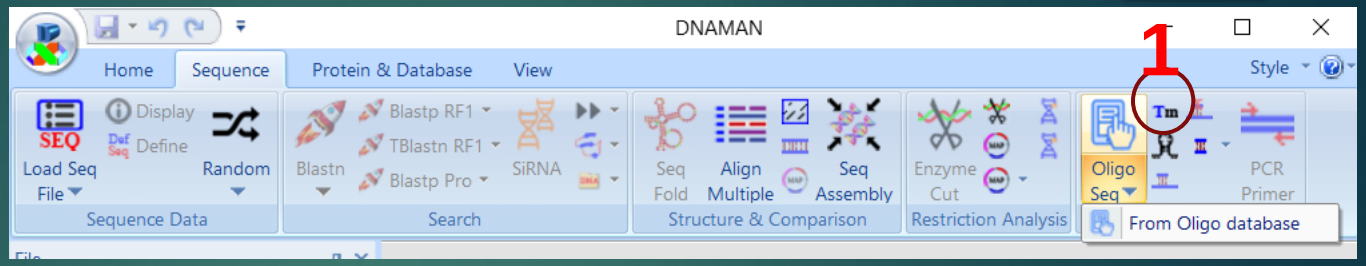
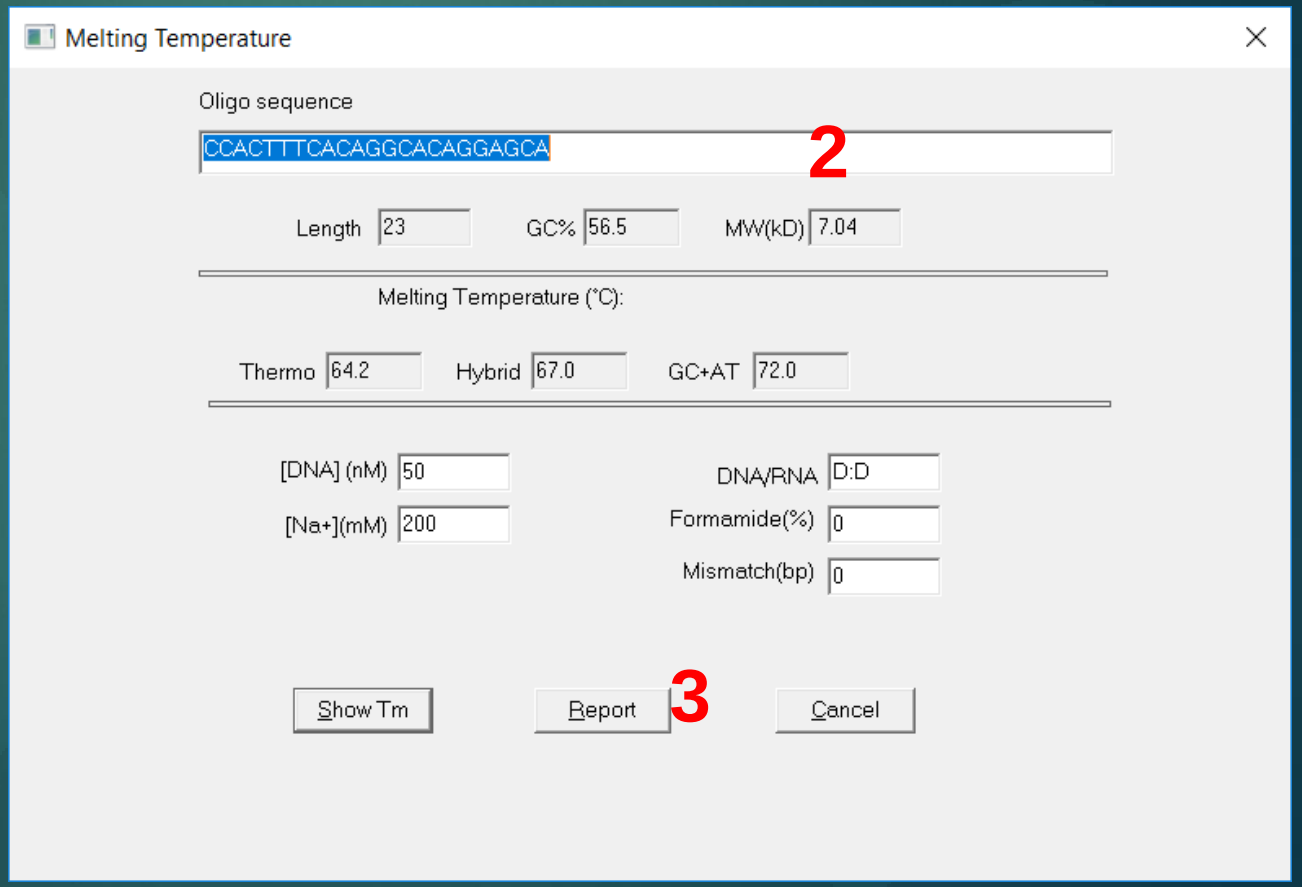
2. From Oligo database

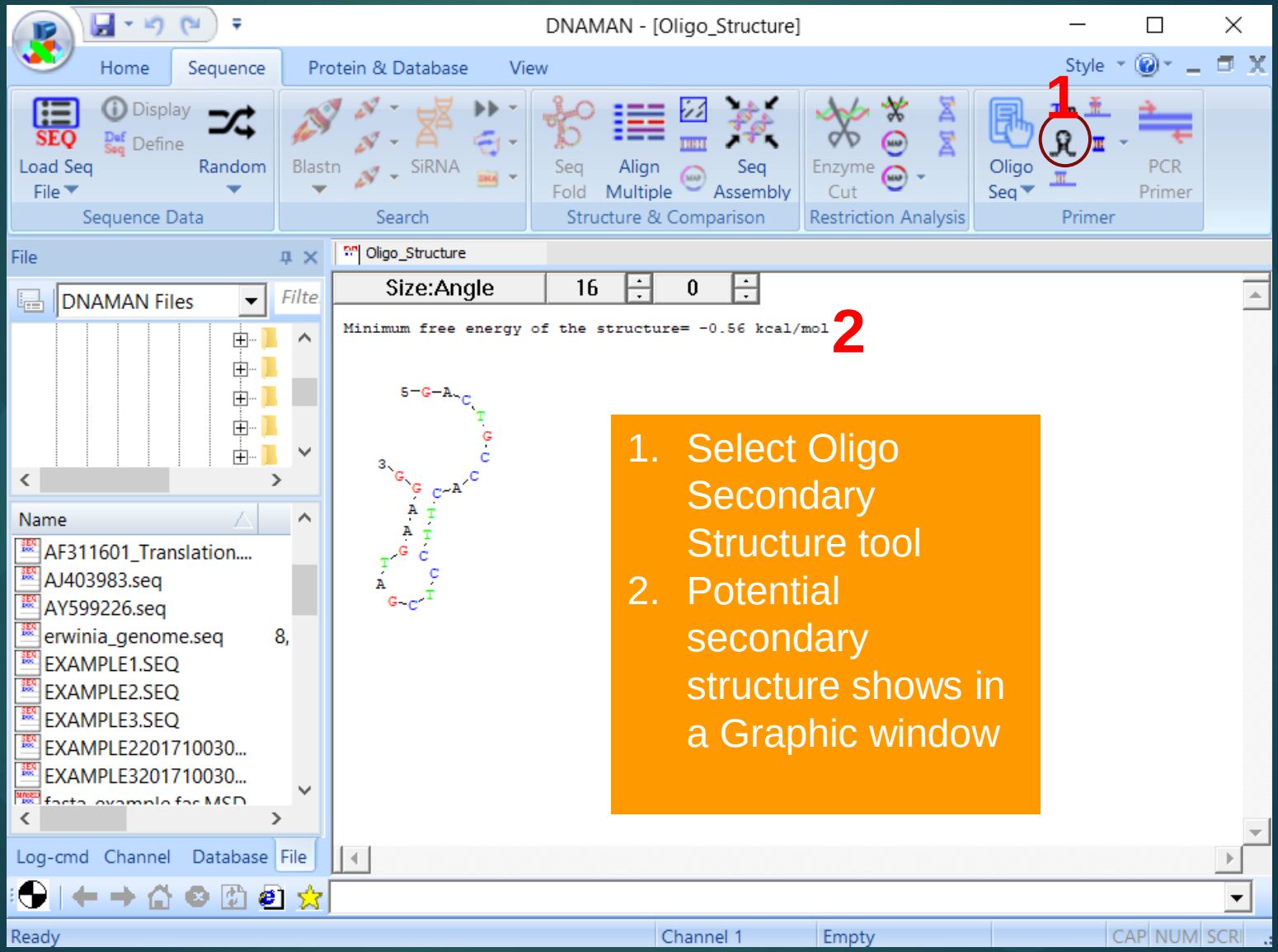
Oligo Properties



1. Select Oligo Properties tool
2. Properties shown in a dialog box. Oligo sequence can be modified.
3. Press Report button to show properties in Text window

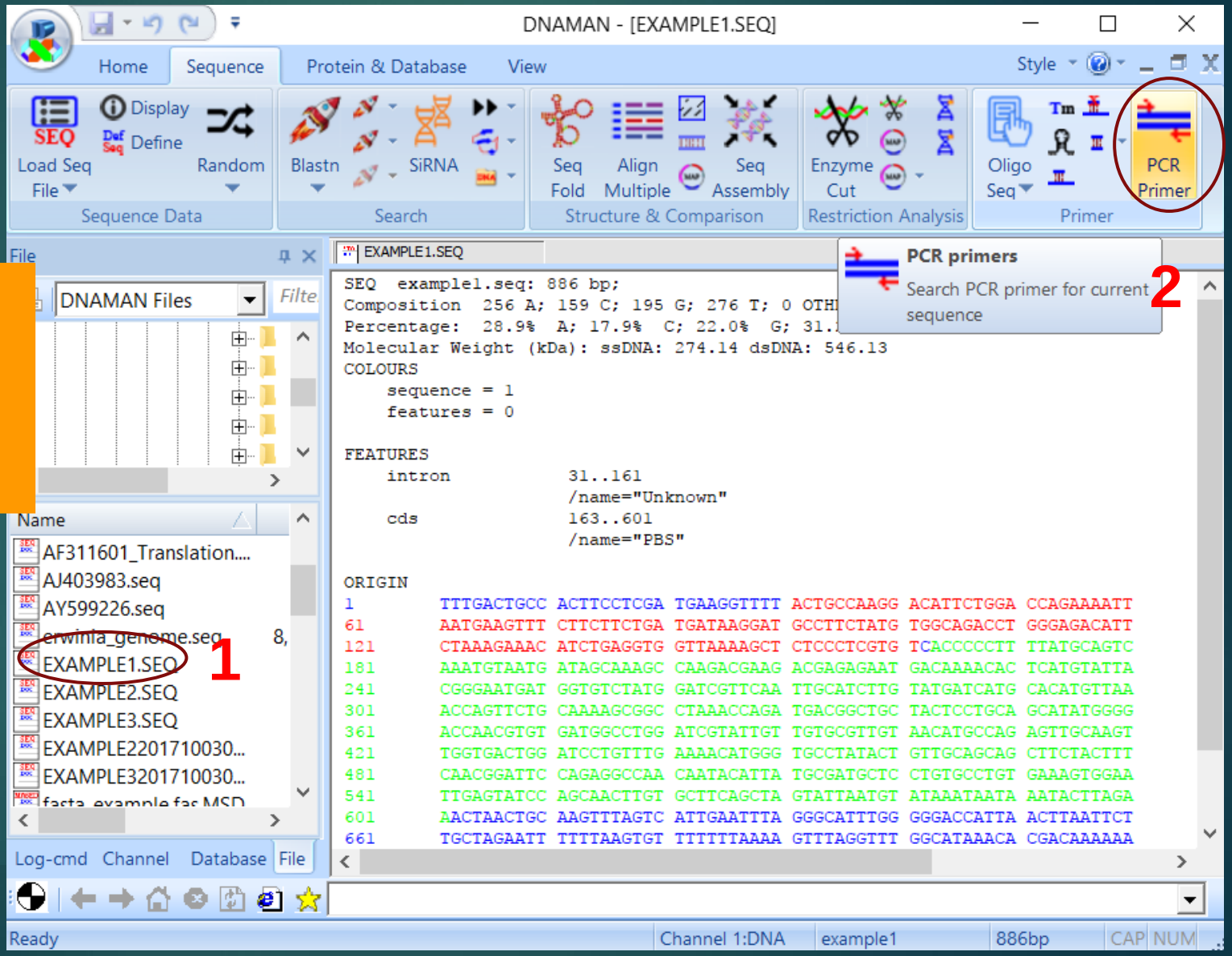


Secondary Structure



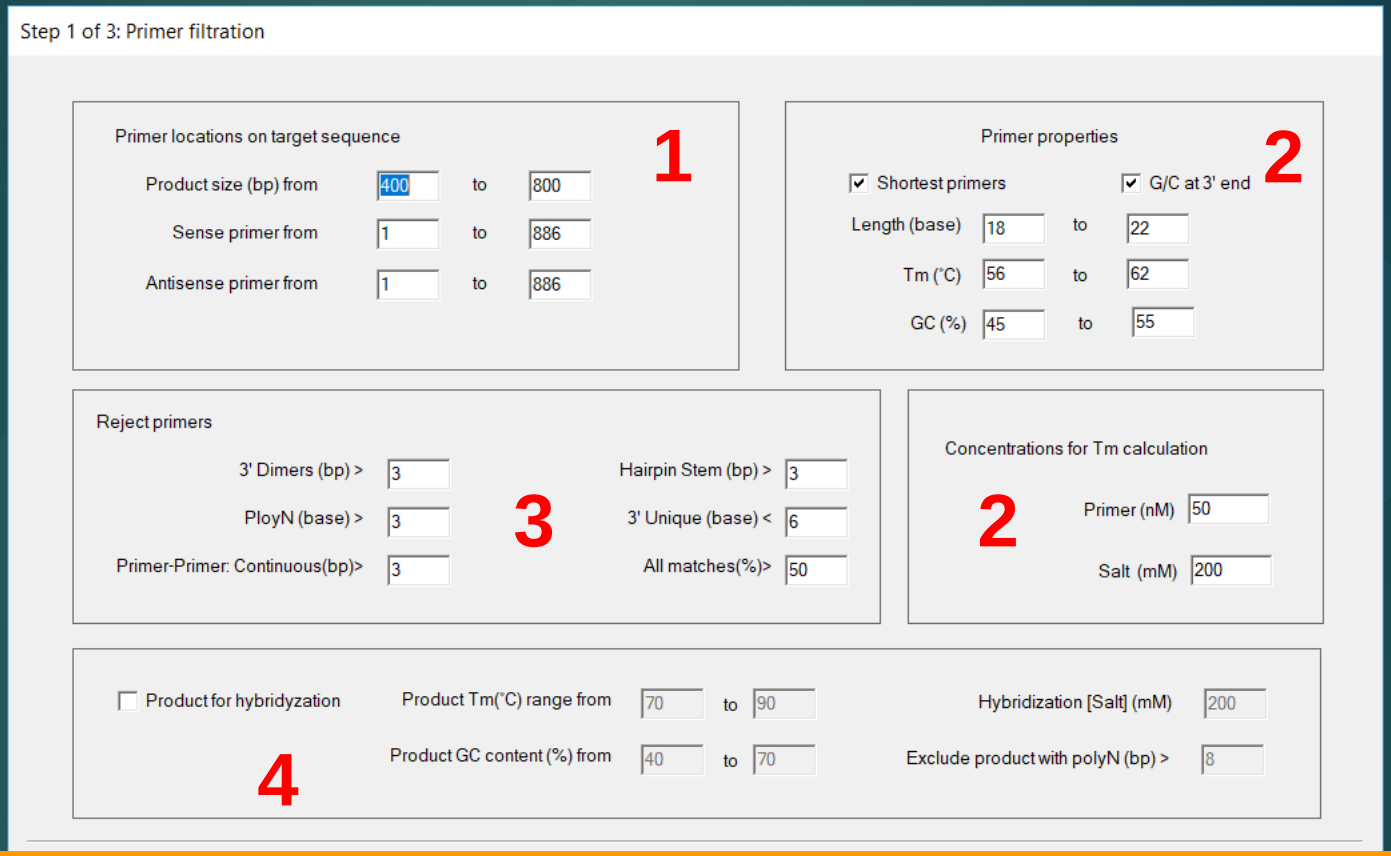
PCR Primers

1. Double click a sequence file to open
2. Press PCR Primer tool



PCR Primers

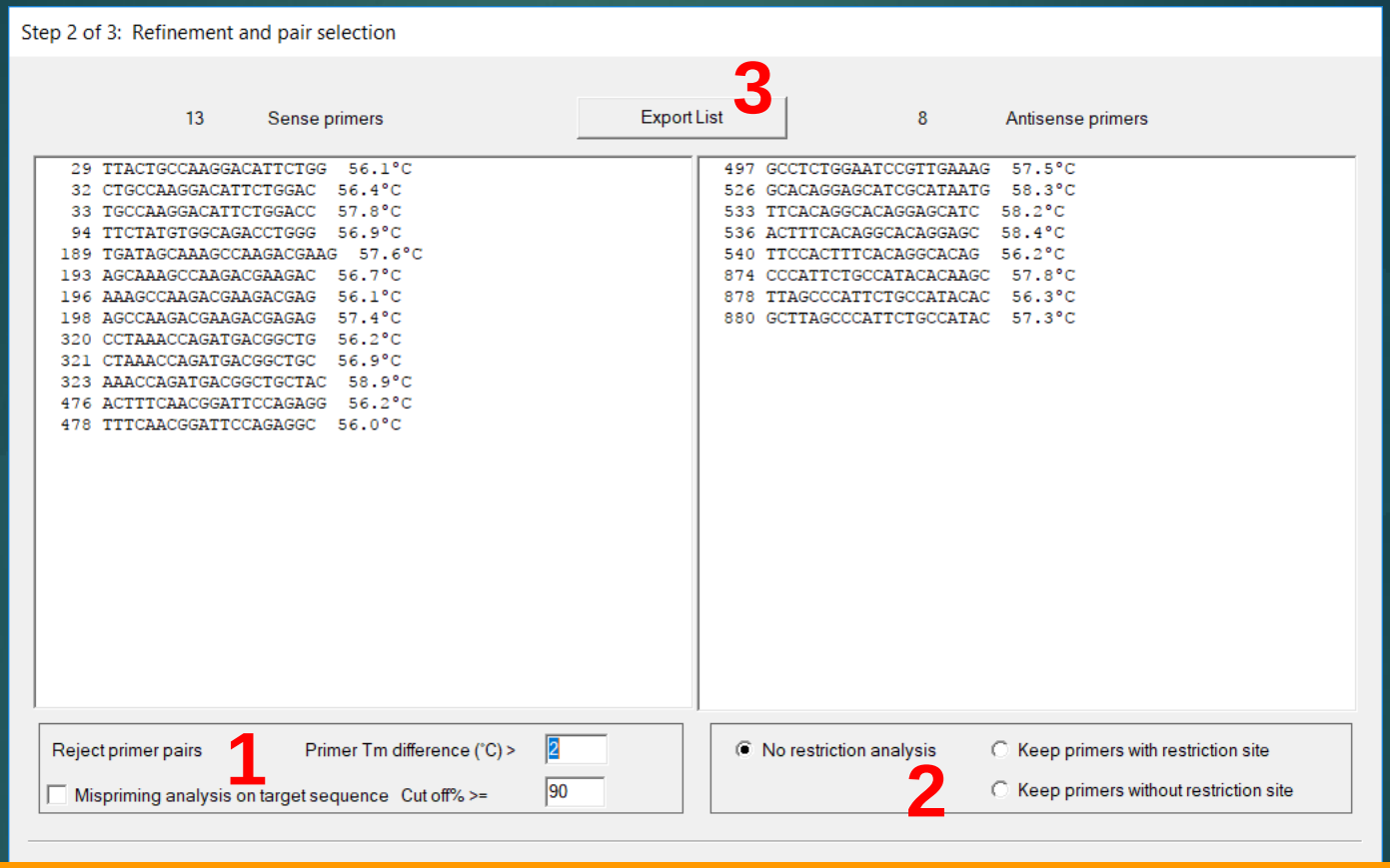
Step 1: Primer Filters



1. Select primer locations on template DNA
2. Set primer properties with component concentrations
3. Set Rejection metrics to filter low quality primers
4. Set PCR product properties if the product will be used for hybridyzation

PCR Primers

Step 2: Primer Filters

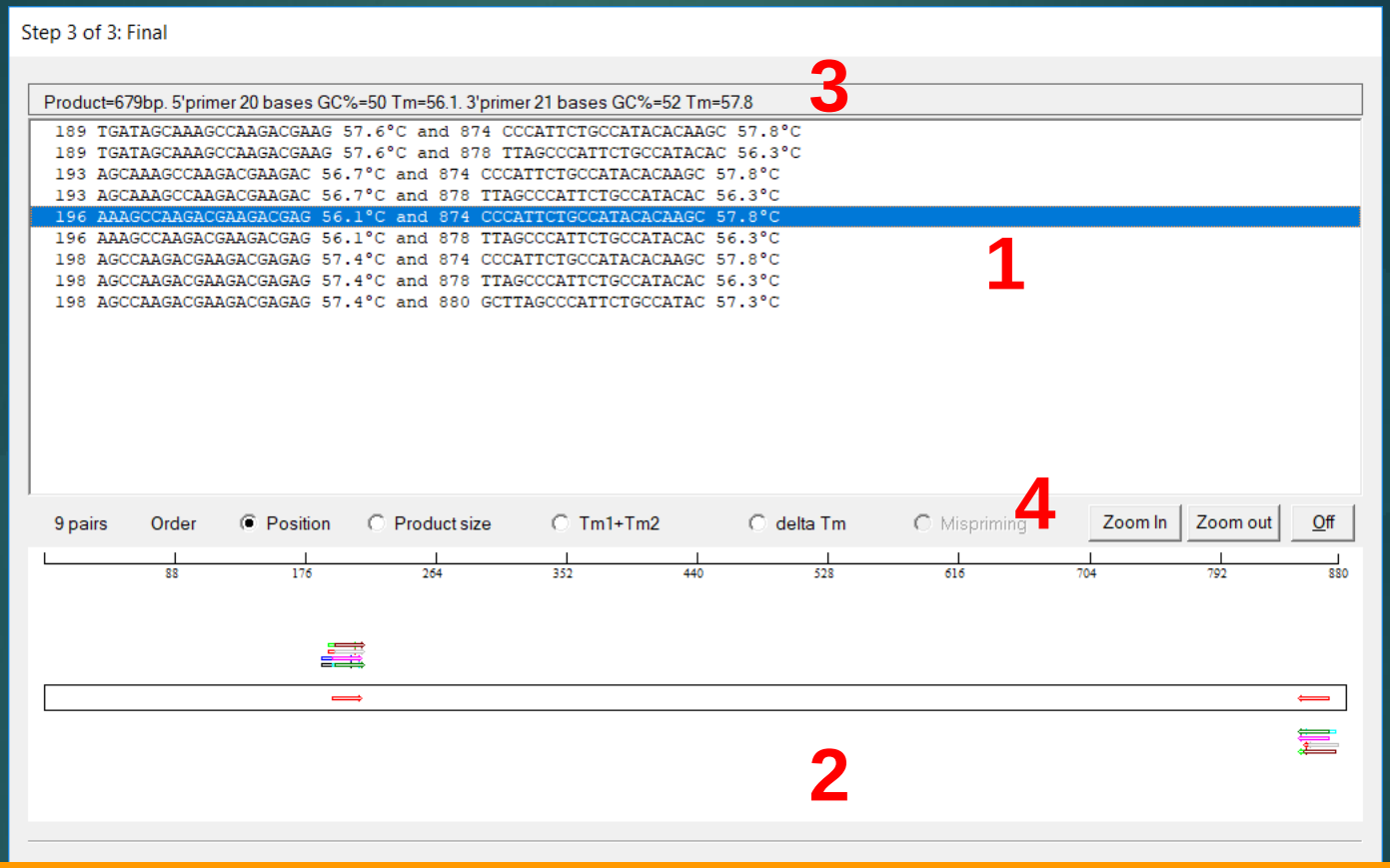


Sense and anti-sense primers are selected. Set parameters to select pairs.

1. Set parameters to reject pairs with different Tm or mispriming target DNA
2. Set restriction site requirement to allow or reject primers
3. All primers can be exported to a Text window for records

PCR Primers

Step 3: Primer Pairs



1. Select a pair of primers visualize the properties
2. Primer pair locations shown in the target DNA diagram
3. Product length and primer information
4. Primer quality can be sorted in Position/Product Size/Tm

PCR Primers

Final: Primer Pair List