

# Primer3

The *Primer3* plugin is a port of the [Primer3 tool](#). It is intended to pick primers from a DNA sequence.

To use the *Primer3*, open a DNA sequence and select the *Analyze Primer3* context menu item. The dialog will appear:

The screenshot shows the 'Primer Designer' dialog box with the following fields and options:

- Excluded regions:** [Empty text box]
- Targets:** [Empty text box]
- Product size ranges:** 150-250 100-300 301-400 401-500 501-600 601-700 701-850 851-1000
- Mispriming/Repeat library:** NONE (dropdown menu)
- Number to return:** 5 (spin box)
- Max 3' stability:** 9.00 (spin box)
- Max repeat mispriming:** 12.00 (spin box)
- Pair max repeat mispriming:** 24.00 (spin box)
- Max template mispriming:** 12.00 (spin box)
- Pair max template mispriming:** 24.00 (spin box)
- Start codon position:** [Empty text box]
- Pick left primer:**  (checkbox)
- Pick hybridization probe (internal oligo):**  (checkbox)
- Pick right primer:**  (checkbox)
- or use left primer below:** [Empty text box]
- or use oligo below:** [Empty text box]
- or use right primer below (5' to 3' on opposite strand):** [Empty text box]
- Region:** Whole sequence (dropdown), 1 - 199950 (text boxes)
- Buttons:** Help, Save settings, Load settings, Reset form, Pick primers

All available parameters are the same as in the original Primer3.

However there is one additional feature available which is not originally a part of [Primer3 tool](#). It allows user design primers for RT-PCR experiments by choosing which exons/introns to span with the primer product. This feature is described in detailed below. When you select the parameters you can save and load settings with a help of the corresponding buttons in the right corner of the dialog.

- RT-PCR Primer Design