

# In Silico PCR Element

Simulates PCR for input sequences and primer pairs. Creates the table with the PCR statistics.

Parameters in GUI

Parameter	Description	Default value
Primers URL	A URL to the input file with primer pairs.	
Report URL	A URL to the output file with the PCR report.	
Mismatches	Number of allowed mismatches.	3
Min perfect match	Number of bases that match exactly on 3' end of primers.	15
Max product size	Maximum size of amplified region.	5000

# Parameters in Workflow File

Type: in-silico-pcr

Parameter	Parameter in the GUI	Type
primers-url	Primers URL	string
report-url	Report URL	string
mismatches	Mismatches	numeric
perfect-match	Min perfect match	numeric
max-product	Max product size	numeric

# Input/Output Ports

The element has 1 *input port*:

**Name in GUI:** Input sequence

**Name in Workflow File:** in-sequence

**Slots:**

Slot In GUI	Slot in Workflow File	Type
Sequence	sequence	<i>sequence</i>

And 1 *output port*:

**Name in GUI:** PCR product

**Name in Workflow File:** out

**Slots:**

Slot In GUI	Slot in Workflow File	Type
Set of annotations	annotations	<i>annotation-table</i>
Sequence	sequence	<i>sequence</i>