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**	*sequence*

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**	*annotation-table*
Sequence	**sequence**	*sequence*