ORF Marker Element

Finds Open Reading Frames (ORFs) in each supplied nucleotide sequence, stores found regions as annotations.

Parameters in GUI

Parameter	Description	Default value
Annotate as (required)	Name of the result annotations.	ORF
Search in	Specifies which strands should be searched: direct, complement or both.	both strands
Min length	Ignores ORFs shorter than the specified length.	100
Genetic code	Specifies which genetic code should be used for translating the input nucleotide sequence.	The Standard Genetic Code
Require init codon	Allows or not ORFs starting with any codon other than terminator.	True
Require stop codon	Ignores boundary ORFs which last beyound the search region (i.e. have no stop codon within the range).	False
Allow alternative codons	Allows ORFs starting with alternative initiation codons, accordingly to the current translation table.	False

Parameters in Workflow File

Type: orf-search

Parameter	Parameter in the GUI	Туре
result-name	Annotate as	string
strand	Search in	numeric Available values are: 0 - for searching in both strands 1 - for searching in direct strand 2 - for searching in complement strand
min-length	Min length	numeric
genetic-code	Genetic code	string Available values are: NCBI-GenBank #1 NCBI-GenBank #2 etc.
require-init-codon	Require init codon	boolean
require-stop-codon	Require stop codon	boolean
allow-alternative-codons	Allow alternative codons	boolean

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	Туре
Sequence	sequence	sequence

And 1 output port.

Name in GUI: ORF annotations

Name in Workflow File: out-annotations

Slots:

Slot In GUI	Slot in Workflow File	Туре
Set of annotations	annotations	annotation-table