

# ORF Marker Element

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

**Element type:** orf-search

## Parameters in GUI

Parameter	Description	Default value	Parameter in Workflow File	Type
<b>Annotate as</b> (required)	Name of the result annotations.	ORF	<b>result-name</b>	<i>string</i>
<b>Search in</b>	Specifies which strands should be searched: direct, complement or both.	both strands	<b>strand</b>	<i>numeric</i> Available values are: <ul style="list-style-type: none"><li>• 0 - for searching in both strands</li><li>• 1 - for searching in direct strand</li><li>• 2 - for searching in complement strand</li></ul>
<b>Min length</b>	Ignores ORFs shorter than the specified length.	100	<b>min-length</b>	<i>numeric</i>
<b>Genetic code</b>	Specifies which genetic code should be used for translating the input nucleotide sequence.	The Standard Genetic Code	<b>genetic-code</b>	<i>string</i> Available values are: <ul style="list-style-type: none"><li>• NCBI-GenBank #1</li><li>• NCBI-GenBank #2</li><li>• etc.</li></ul>
<b>Require init codon</b>	Allows or not ORFs starting with any codon other than terminator.	True	<b>require-init-codon</b>	<i>boolean</i>
<b>Require stop codon</b>	Ignores boundary ORFs which last beyond the search region (i.e. have no stop codon within the range).	False	<b>require-stop-codon</b>	<i>boolean</i>
<b>Allow alternative codons</b>	Allows ORFs starting with alternative initiation codons, accordingly to the current translation table.	False	<b>allow-alternative-codons</b>	<i>boolean</i>

## 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
<b>Sequence</b>	<b>sequence</b>	<i>sequence</i>

And 1 *output port*.

**Name in GUI:** *ORF annotations*

**Name in Workflow File:** out-annotations

**Slots:**

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