

# Align with ClustalO Element

Aligns multiple sequence alignments (MSAs) supplied with ClustalO.

## Parameters in GUI

Parameter	Description	Default value
<b>Number of iterations</b>	Number of (combined guide-tree/HMM) iterations.	1
<b>Number of guidetree iterations</b>	Maximum number guidetree iterations.	0
<b>Number of HMM iterations</b>	Maximum number of HMM iterations.	0
<b>Set auto options</b>	Set options automatically (might overwrite some of your options).	False
<b>Tool path</b>	Path to the ClustalO tool. The default path can be set in the UGENE application settings.	Default
<b>Temporary directory</b>	Directory to store temporary files.	Default

## Parameters in Workflow File

Type: ClustalO

Parameter	Parameter in the GUI	Type
<b>num-iterations</b>	<b>Number of iterations</b>	<i>numeric</i>
<b>max-guidetree-iterations</b>	<b>Number of guidetree iterations</b>	<i>numeric</i>
<b>max-hmm-iterations</b>	<b>Number of HMM iterations</b>	<i>numeric</i>
<b>set-auto</b>	<b>Set auto options</b>	<i>boolean</i>
<b>path</b>	<b>Tool path</b>	<i>string</i>
<b>temp-dir</b>	<b>Temporary directory</b>	<i>string</i>

## Input/Output Ports

The element has 1 *input port*:

**Name in GUI:** Input MSA

**Name in Workflow File:** in-msa

**Slots:**

Slot In GUI	Slot in Workflow File	Type
MSA	msa	<i>malignment</i>

And 1 *output port*:

**Name in GUI:** ClustalO result MSA

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

**Slots:**

Slot In GUI	Slot in Workflow File	Type
MSA	msa	<i>malignment</i>