

Align with T-Coffee Element

T-Coffee is a multiple sequence alignment package.



T-Coffee is used as an external tool from UGENE and it must be installed on your system. To learn more about the external tools, please, read main [UGENE User Manual](#).

Element type: tcoffee

Parameters

Parameter	Description	Default value	Parameter in Workflow File	Type
Gap extension penalty	Gap Extension Penalty. Positive values give rewards to gaps and prevent the alignment of unrelated segments.	0	gap-ext-penalty	<i>numeric</i>
Gap open penalty	Gap open penalty. Must be negative, best matches get a score of 1000.	-50	gap-open-penalty	<i>numeric</i>
Max iteration	Number of iteration on the progressive alignment. 0 - no iteration, -1 - Nseq iterations.	0	iterations-max-num	<i>numeric</i>
Tool path (required)	Path to the ClustalW tool. The default path can be set in the UGENE Application Settings.	default	path	<i>string</i>
Temporary directory	Directory to store temporary files.	default	temp-dir	<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>msa</i>

And 1 *output port*:

Name in GUI: *Multiple sequence alignment*

Name in Workflow File: out-msa

Slots:

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