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.

Parameters in GUI

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

Parameters in Workflow File

Type: tcoffee

Parameter	Parameter in the GUI	Type
gap-ext-penalty	**Offset**	*numeric*
gap-open-penalty	**Gap open penalty**	*numeric*
iterations-max-num	**Max iteration**	*numeric*
path	**Tool path**	*string*
temp-dir	**Temporary directory**	*string*

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**	*msa*

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**	*msa*