Align with MAFFT Element

Originally, MAFFT is a multiple sequence alignment program for unix-like operating systems. Currently, Windows version is also available.

MAFFT 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.

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Parameters in GUI

Parameter	Description	Default value
Offset	Works like gap extension penalty.	0
Gap open penalty	Gap open penalty.	1.53
Max iteration	Maximum number of iterative refinement.	0
Tool path (default)	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: mafft

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*