

# Build Frequency Matrix Element

Builds a frequency matrix. Frequency matrices are used for probabilistic recognition of transcription factor binding sites.

## Parameters in GUI

Parameter	Description	Default value
<b>Matrix type</b>	Dinucleic matrices are more detailed, while mononucleic one are more useful for small input data sets.	Mononucleic

## Parameters in Workflowa File

Type: fmatrix-build

Parameter	Parameter in the GUI	Type
<b>type</b>	<b>Matrix type</b>	<i>boolean</i>  Available values are: <ul style="list-style-type: none"><li>• true - for Dinucleic</li><li>• false - for Mononucleic</li></ul>

## Input/Output Ports

The element has 1 *input port*:

**Name in GUI:** *Input alignment*

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

**Slots:**

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

And 1 *output port*:

**Name in GUI:** *Frequency matrix*

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

**Slots:**

Slot In GUI	Slot in Workflow File	Type
<b>Frequency matrix</b>	<b>fmatrix</b>	<i>fmatrix</i>