

# Build SITECON Model Element

Builds statistical profile for SITECON. The SITECON is a program for probabilistic recognition of transcription factor binding sites.

## Parameters in GUI

Parameter	Description	Default value
<b>Weight algorithm</b>	Optional feature, in most cases applying no weight will fit. In some cases choosing algorithm 2 will increase the recognition quality.	None
<b>Window size, bp</b>	Window is used to pick out the most important alignment region and is located at the center of the alignment. Must be: windows size is not greater than TFBS alignment length, recommended: windows size is not greater than 50 bp.	40
<b>Calibration length</b>	Length of random synthetic sequences used to calibrate the profile. Should not be less than window size.	1M
<b>Random seed</b>	The random seed, where is a positive integer. You can use this option to generate reproducible results for different runs on the same data.	0

## Parameters in Workflow File

**Type:** sitecon-build

Parameter	Parameter in the GUI	Type
<b>weight-algorithm</b>	<b>Weight algorithm</b>	<i>boolean</i>  Available values are: <ul style="list-style-type: none"><li>• 0 - for None</li><li>• 1 - for Algorithm2</li></ul>
<b>window-size</b>	<b>Window size, bp</b>	<i>numeric</i>
<b>calibrate-length</b>	<b>Calibration length</b>	<i>numeric</i>
<b>seed</b>	<b>Random seed</b>	<i>numeric</i>

## 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>
<b>Origin</b>	<b>url</b>	<i>string</i>

And 1 *output port*:

**Name in GUI:** *Sitecon model*

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

**Slots:**

Slot In GUI	Slot in Workflow File	Type
<b>Sitecon model</b>	<b>sitecon-model</b>	<i>sitecon-model</i>