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
Weight algorithm	Optional feature, in most cases applying no weight will fit. In some cases choosing algorithm 2 will increase the recognition quality.	None
Window size, bp	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
Calibration length	Length of random synthetic sequences used to calibrate the profile. Should not be less than window size.	1M
Random seed	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
weight-algorithm	**Weight algorithm**	*boolean* Available values are: • 0 - for None • 1 - for Algorithm2
window-size	**Window size, bp**	*numeric*
calibrate-length	**Calibration length**	*numeric*
seed	**Random seed**	*numeric*

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
MSA	**msa**	*msa*
Origin	**url**	*string*

And 1 *output port*:

Name in GUI: *Sitecon model*

Name in Workflow File: out-sitecon

Slots:

Slot In GUI	Slot in Workflow File	Type
Sitecon model	**sitecon-model**	*sitecon-model*