

Build SITECON Model Element

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

Element type: sitecon-build

Parameters

| Parameter | Description | Default value | Parameter in Workflow File | Type |
|---------------------------|---|---------------|----------------------------|---|
| Weight algorithm | Optional feature, in most cases applying no weight will fit. In some cases choosing algorithm 2 will increase the recognition quality. | None | weight-algorithm | <i>boolean</i> Available values are: <ul style="list-style-type: none">• 0 - for N one• 1 - for Algorithm 2 |
| 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 | window-size | <i>numeric</i> |
| Calibration length | Length of random synthetic sequences used to calibrate the profile. Should not be less than window size. | 1M | calibrate-length | <i>numeric</i> |
| 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 | seed | <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 |
|---------------|-----------------------|---------------|
| MSA | msa | <i>msa</i> |
| Origin | url | <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 |
|----------------------|-----------------------|----------------------|
| Sitecon model | sitecon-model | <i>sitecon-model</i> |