Build Weight Matrix Element

Builds weight matrix. Weight matrices are used for probabilistic recognition of transcription factor binding sites.

Parameters in GUI

Parameter	Description	Default value
Matrix type (required)	Dinucleic matrices are more detailed, while mononucleic one are more useful for small input data sets.	Mononucl eic
Weight algorithm	Different weight algorithms uses different functions to build weight matrices. It allows us to get better precision on different data sets. Log-odds, NLG and Match algorithms are sensitive to input matrices with zero values, so some of them may not work on those matrices.	Berg and Von Hippel

Parameters in Workflow File

Type: wmatrix-build

Parameter	Parameter in the GUI	Туре
type	Matrix type	boolean Available values are: • true - for Dinucleic • false - for Mononucleic
weight-algorithm	Weight algorithm	string Available values are: Berg and von Hippel Log-odds Match NLG

Input/Output Ports

The element has 1 input port.

Name in GUI: Input alignment

Name in Workflow File: in-msa

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Slots:

Slot In GUI	Slot in Workflow File	Туре
MSA	msa	msa

And 1 output port.

Name in GUI: Weight matrix

Name in Workflow File: out-wmatrix

Slots:

Slot In GUI	Slot in Workflow File	Туре
Weight matrix	wmatrix	wmatrix