Search for TFBS with Weight Matrix Element

Searches each input sequence for transcription factor binding sites significantly similar to specified weight matrices. In case several profiles were supplied, searches with all profiles one by one and outputs merged set of annotations for each sequence.

Parameters in GUI

Parameter	Description	Default value
Result annotation	Name of the result annotations.	misc_feature
Search in	Specifies which strands should be searched: direct, complement or both.	both strands
Min score	Min score Minimum score to detect transcription factor binding site in percents.	

Parameters in Workflow File

Type: wmatrix-search

Parameter	Parameter in the GUI	Туре
result-name	Result annotation	string
strand	Search in	numeric Available values are: 0 - for searching in both strands 1 - for searching in direct strand 2 - for searching in complement strand
min-score	Min score	numeric

Input/Output Ports

The element has 2 input ports. The first port:

Name in GUI: Sequence

Name in Workflow File: in-sequence

Slots:

Slot In GUI	Slot in Workflow File	Туре
Sequence	sequence	sequence

The second input port gets the SITECON model:

Name in GUI: Weight matrix

Name in Workflow File: in-wmatrix

Slots:

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

And there is 1 output port.

Name in GUI: Weight matrix annotations

Name in Workflow File: out-annotations

Slots:

Slot In GUI	Slot in Workflow File	Туре
Set of annotations	annotations	annotation-table