HMM Search Element

Searches each input sequence for significantly similar sequence matches to all specified HMM profiles. In case several profiles were supplied, searches with all profiles one by one and outputs united set of annotations for each sequence

Parameters in GUI

Parameter	Description	Default value
Result annotation	Name of the result annotations.	hmm_signal
Filter by high E-value	E-value filtering can be used to exclude low-probability hits from result.	1e-1
Number of seqs	Calculates the E-value scores as if we had seen a sequence database of sequences.	1
Filter by low score	Score based filtering is an alternative to E-value filtering to exclude low-probability hits from result.	-1000000000.0

Parameters in Workflow File

Type: hmm2-search

Parameter	Parameter in the GUI	Type
result-name	**Result annotation**	*string*
e-val	**Filter by high E-value**	*numeric*
seqs-num	**Number of seqs**	*numeric*
score	**Filter by low score**	*numeric*

Input/Output Ports

The element has 2 *input port*. The first gets the input sequence:

Name in GUI: *Input sequence*

Name in Workflow File: in-sequence

Slots:

Slot In GUI	Slot in Workflow File	Type
Sequence	**sequence**	*sequence*

The second input port gets the HMM profile:

Name in GUI: *HMM profile*

Name in Workflow File: in-hmm2

Slots:

Slot In GUI	Slot in Workflow File	Type
HMM profile	**hmm2-profile**	*hmm2-profile*

And 1 *output port*:

Name in GUI: *HMM annotations*

Name in Workflow File: out-annotations

Slots:

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