

# HMM3 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 output united set of annotations for each sequence.

**Element type:** hmm3-search

## Parameters

Parameter	Description	Default value	Parameter in Workflow File	Type
<b>Result annotation</b>	Name of the result annotations.	hmm_signal	<b>result-name</b>	<i>string</i>
<b>Seed</b>	Random generator seed. 0 - means that one-time arbitrary seed will be used.	0	<b>seed</b>	<i>numeric</i>
<b>Filter by high E-value</b>	E-value filtering can be used to exclude low-probability hits from the result.	1e-1	<b>seqs-num</b>	<i>numeric</i>
<b>Filter by low score</b>	Score based filtering is an alternative to E-value filtering to exclude low-probability hits from the result.	0.01	<b>score</b>	<i>numeric</i>

## 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
<b>Sequence</b>	<b>sequence</b>	<i>sequence</i>

The second input port gets the HMM profile:

**Name in GUI:** *HMM3 profile*

**Name in Workflow File:** in-hmm3

**Slots:**

Slot In GUI	Slot in Workflow File	Type
<b>HMM profile</b>	<b>hmm3-profile</b>	<i>hmm3-profile</i>

And 1 *output port*:

**Name in GUI:** *HMM3 annotations*

**Name in Workflow File:** out-annotations

**Slots:**

Slot In GUI	Slot in Workflow File	Type
<b>Set of annotations</b>	<b>annotations</b>	<i>annotation-table</i>