

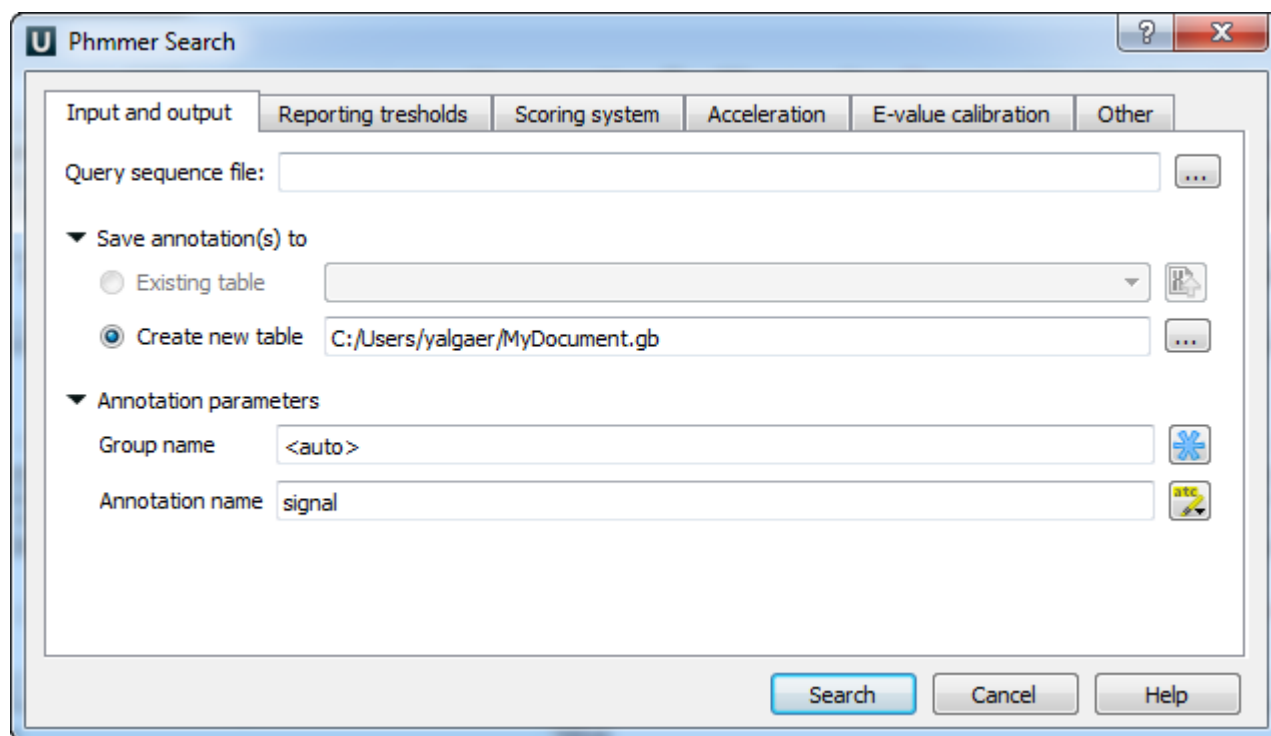
Searching Sequence Against Sequence Database

The *Phmmer search* tool searches for query sequence matches in sequence database, much as BLASTP or FASTA would do.

The *Phmmer search* works essentially like the *HMM3 search* does, except you provide a query sequence instead of a query profile HMM.

The database sequence must be selected in the *Project View* or there must be an active *Sequence View* window opened.

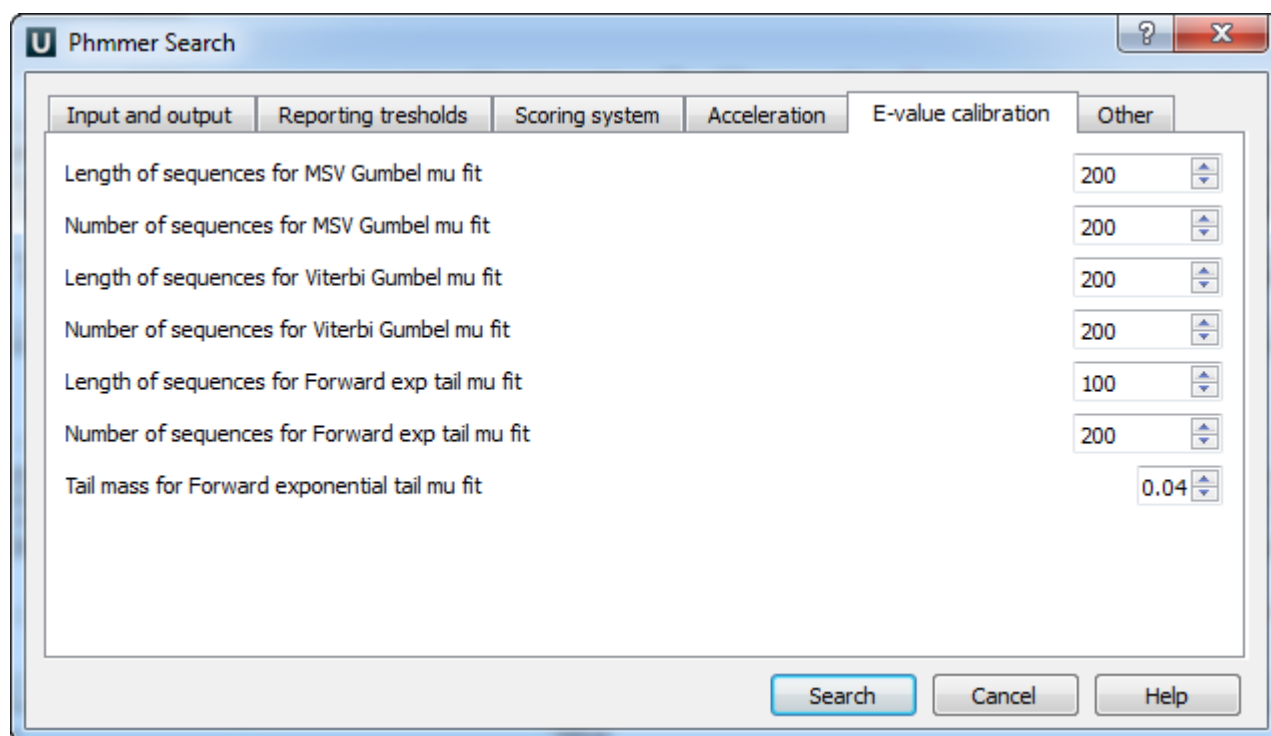
Select the query sequence in the *Phmmer search* dialog:



The image shows the 'Phmmer Search' dialog box with the 'Input and output' tab selected. The dialog has a title bar with a question mark and a close button. Below the title bar are several tabs: 'Input and output', 'Reporting thresholds', 'Scoring system', 'Acceleration', 'E-value calibration', and 'Other'. The 'Input and output' tab contains the following fields and controls:

- 'Query sequence file:' followed by a text input field and a browse button (three dots).
- 'Save annotation(s) to' section with two radio buttons:
 - 'Existing table' with a dropdown menu and a file icon.
 - 'Create new table' (selected) with a text input field containing 'C:/Users/yalgaer/MyDocument.gb' and a browse button.
- 'Annotation parameters' section with two text input fields:
 - 'Group name' with the value '<auto>' and a refresh icon.
 - 'Annotation name' with the value 'signal' and a file icon.
- At the bottom are three buttons: 'Search', 'Cancel', and 'Help'.

You can set options of the *Phmmer search* by choosing the needed dialog tab. Here you can see the e-value calibration options:

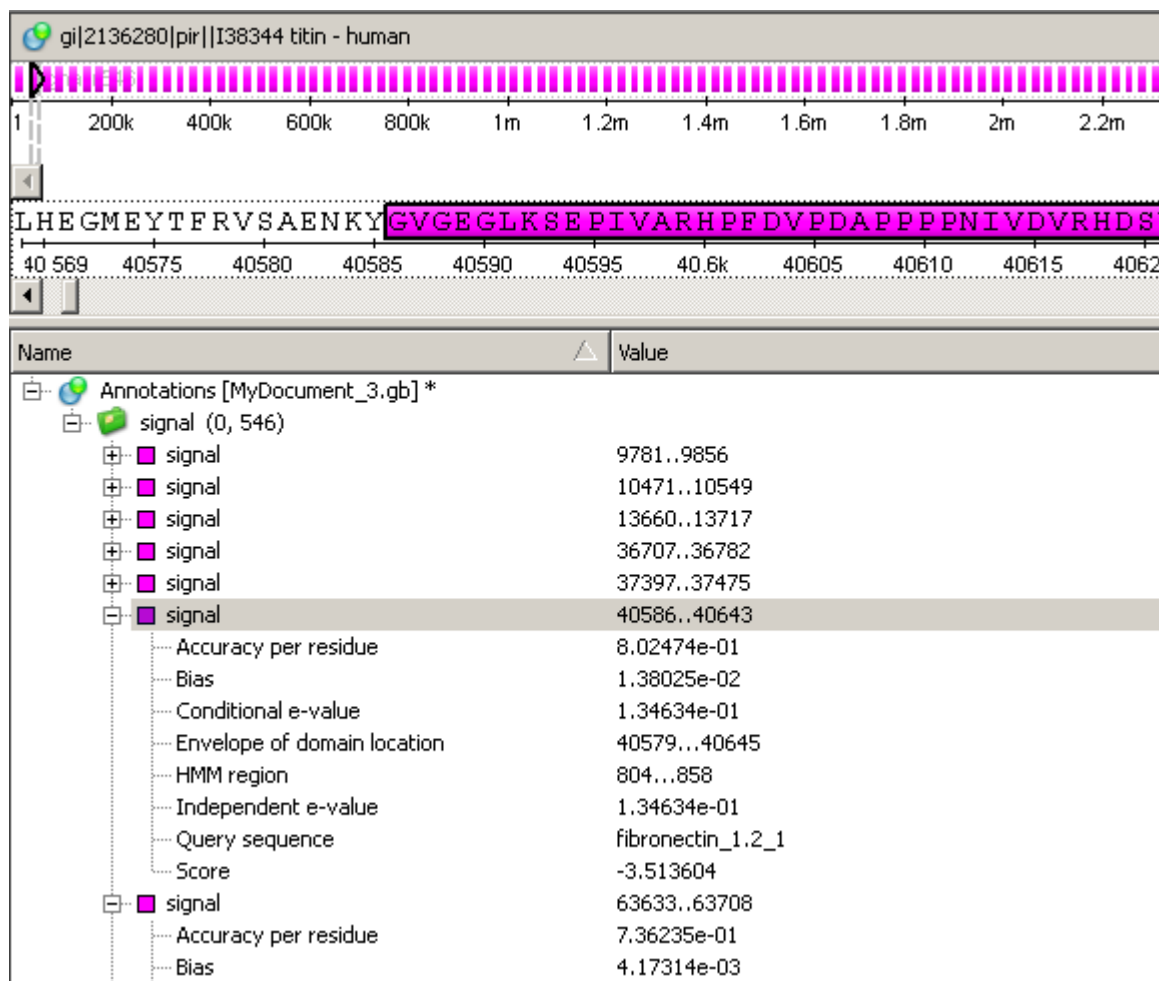



The image shows the 'Phmmer Search' dialog box with the 'E-value calibration' tab selected. The dialog has the same title bar and tabs as the previous image. The 'E-value calibration' tab contains the following settings:

Parameter	Value
Length of sequences for MSV Gumbel mu fit	200
Number of sequences for MSV Gumbel mu fit	200
Length of sequences for Viterbi Gumbel mu fit	200
Number of sequences for Viterbi Gumbel mu fit	200
Length of sequences for Forward exp tail mu fit	100
Number of sequences for Forward exp tail mu fit	200
Tail mass for Forward exponential tail mu fit	0.04

At the bottom are three buttons: 'Search', 'Cancel', and 'Help'.

The results are stored as sequence annotations in the Genbank file format.



 The *Phmmer* search works only with single-sequence databases.