Service Retirement

Wise2DBA and Promoterwise are scheduled for retirement on 15th April 2018. Alternatives can be found at Exonerate, BWA or BLAT. If you have any concerns, please contact us via support.

PromoterWise (REST)

Description
PromoterWise compares two DNA sequences allowing for inversions and translocations, ideal for promoters.

For more information see:
- Web form: http://www.ebi.ac.uk/Tools/psa/promoterwise/
- Document/literal SOAP service
- Wise2 homepage

Important
We kindly ask all users of EMBL-EBI Web Services to submit tool jobs in batches of no more than 30 at a time and not to submit more until the results and processing is complete. Please ensure that a valid email address is provided. Excessive usage of a particular resource will be dealt with in accordance with EMBL-EBI's Terms of Use. Please contact us if you need further information.

Clients
Sample clients are provided for a number of programming languages. For details of how to use these clients, download the client and run the program without any arguments.

<table>
<thead>
<tr>
<th>Language</th>
<th>Download</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perl</td>
<td>promoterwise_lwp.pl</td>
<td>LWP and XML::Simple</td>
</tr>
</tbody>
</table>

For an introduction on how to run these clients and use them in workflows please see the 'EMBL-EBI, programmatically: take a REST from manual searches' webinar series.

WADL
The WADL for the PromoterWise (REST) service: http://www.ebi.ac.uk/Tools/services/rest/promoterwise?wadl

Resources

parameters
List parameter names.

Request

<table>
<thead>
<tr>
<th>URL</th>
<th><a href="http://www.ebi.ac.uk/Tools/services/rest/promoterwise/parameters/">http://www.ebi.ac.uk/Tools/services/rest/promoterwise/parameters/</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameters</td>
<td>none</td>
</tr>
</tbody>
</table>

Response
An XML document containing a list of parameter names.

For example: http://www.ebi.ac.uk/Tools/services/rest/promoterwise/parameters/

**parameterdetails**
Get detailed information about a parameter.

**Request**

<table>
<thead>
<tr>
<th>URL</th>
<th><a href="http://www.ebi.ac.uk/Tools/services/rest/promoterwise/parameterdetails/$parameterId">http://www.ebi.ac.uk/Tools/services/rest/promoterwise/parameterdetails/$parameterId</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameters</td>
<td>$parameterId: the name of the parameter</td>
</tr>
</tbody>
</table>

**Response**
An XML document providing details about the parameter.

For example: http://www.ebi.ac.uk/Tools/services/rest/promoterwise/parameterdetails/hitoutput.

**run**
Submit a job with the specified parameters.

**Request**

<table>
<thead>
<tr>
<th>URL</th>
<th><a href="http://www.ebi.ac.uk/Tools/services/rest/promoterwise/run/">http://www.ebi.ac.uk/Tools/services/rest/promoterwise/run/</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>POST</td>
<td>email User e-mail address. See Why do you need my e-mail address?</td>
</tr>
<tr>
<td>title</td>
<td>an optional title for the job.</td>
</tr>
<tr>
<td>hitoutput</td>
<td>Output alignment format.</td>
</tr>
<tr>
<td>asequence</td>
<td>First sequence.</td>
</tr>
<tr>
<td>bsequence</td>
<td>Second sequence.</td>
</tr>
</tbody>
</table>

More detailed information about each parameter, including valid values can be obtained using the getParameterDetails(parameterId) operation.

**Response**
A plain text document containing the job identifier.

**status**
Get the status of a submitted job.

**Request**

<table>
<thead>
<tr>
<th>URL</th>
<th><a href="http://www.ebi.ac.uk/Tools/services/rest/promoterwise/status/$jobId">http://www.ebi.ac.uk/Tools/services/rest/promoterwise/status/$jobId</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameters</td>
<td>$jobId: job identifier</td>
</tr>
</tbody>
</table>

**Response**
A plain text document containing the job status.

The values for the status are:

- **RUNNING**: the job is currently being processed.
- **FINISHED**: job has finished, and the results can then be retrieved.
- **ERROR**: an error occurred attempting to get the job status.
- **FAILURE**: the job failed.
- **NOT_FOUND**: the job cannot be found.

**resulttypes**
Get available result types for a finished job.

**Request**
Response
An XML document detailing the available result types.

result
Get the job result of the specified type.

Request

<table>
<thead>
<tr>
<th>URL</th>
<th><a href="http://www.ebi.ac.uk/Tools/services/rest/promoterwise/result/$jobId/$resultType">http://www.ebi.ac.uk/Tools/services/rest/promoterwise/result/$jobId/$resultType</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameters</td>
<td>$jobId: job identifier</td>
</tr>
<tr>
<td></td>
<td>$resultType: type of result to retrieve. See resulttypes.</td>
</tr>
</tbody>
</table>

Response
A document containing the result in the requested format. The MIME type of the returned document is set according to the format.