BV-BRC Test Report

A11. Service - Genome Alignment - Bacteria

| Item to test | Genome Alignment Service using bacterial genomes |
|---------------|---|
| URL | https://www.bv-brc.org/app/GenomeAlignment |
| Prerequisites | Bacterial genome group in the workspace |
| References | https://www.bv- brc.org/docs/quick_references/services/genome_alignment_service.html |
| Tester(s) | Rebecca Wattam, Maulik Shukla |
| Test date | 08-May-2022 (follow-up from original test) |
| Test result | Passed |

Overview

- Test the Genome Alignment Service using exemplar bacterial genomes.
- Test input options, i.e., adding one genome at a time and using genome group.
- For each job submitted, verify successful completion of the job and presence of output files.
- Review the interactive genome alignment viewer and ensure the quality of the results.

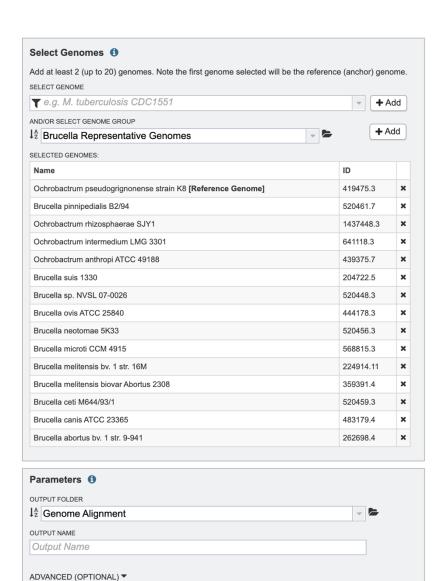
Test Data

| Dataset | Rational | Input Format | Input |
|-------------------------|----------|--------------|-------|
| Brucella Representative | Workshop | Genome | |
| Genomes | example | Group | |

All test datasets and corresponding job results are available in the following public workspace:
 https://www.bv-brc.org/workspace/BVBRC@patricbrc.org/BVBRC%20Tests/Genome%20Alignment

Test Results

- All jobs completed successfully, without any errors.
- All jobs resulted in expected output files in corresponding job output directory.
- The interactive genome alignment viewer loaded and worked as expected. All the functions, zoom in, zoom out, rearranging genomes, and showing and hiding connecting lines worked as expected.
- All test datasets and corresponding job results are available in the following public workspace: https://www.bv-brc.org/workspace/BVBRC@patricbrc.org/BVBRC%20Tests/Genome%20Alignment
- Below are a series of screenshots showing successful completion of the jobs, availability of the result files in the workspace, and the interactive genome alignment viewer.



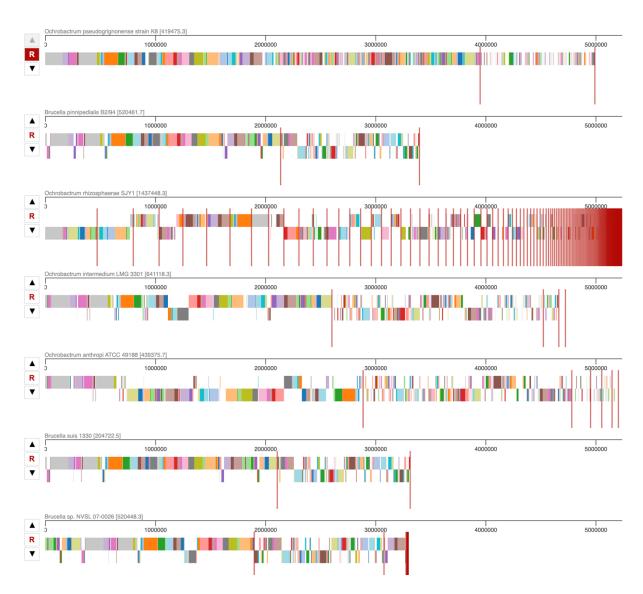
Your job has been submitted successfully. Please visit your <u>Jobs List</u> to check the status of your job and access the results.

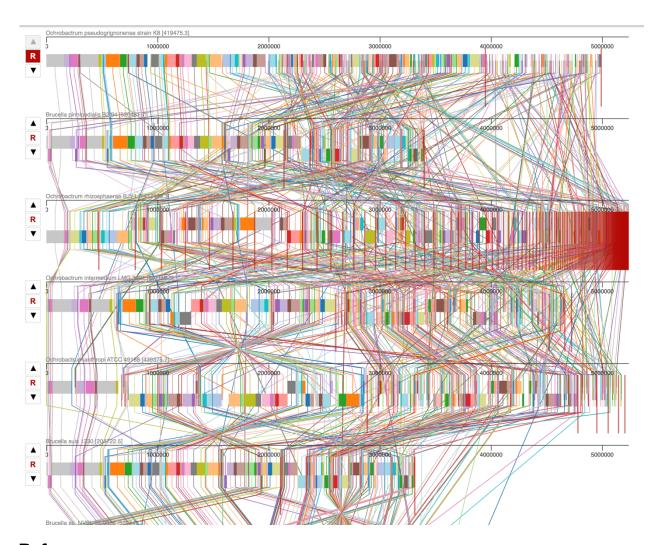
Reset Submit





| | Name | • | Size | Owner | Members | Created | 0 |
|---|-------------------------|---|----------|-------|---------|-----------------|---|
| t | Parent folder | | | | - | | |
| | alignment,json | | 1.1 MB | me | Public | 5/7/22, 8:38 PM | |
| | alignment.xmfa | | 91.3 MB | me | Public | 5/7/22, 8:38 PM | |
| | alignment.xmfa.backbone | | 3.2 MB | me | Public | 5/7/22, 8:38 PM | |
| | alignment.xmfa.bbcols | | 712.6 kB | me | Public | 5/7/22, 8:38 PM | |





References

Genome Alignment Service Quick Reference Guide