

BV-BRC Test Report

S6. Specialty Genes Search

Item to test	Specialty Genes Search
URL	https://www.bv-brc.org/searches/SpecialtyGeneSearch
Prerequisites	None
References	https://www.bv-brc.org/docs/quick_references/searches_menu.html https://www.bv-brc.org/docs/quick_references/organisms_taxon/specialty_genes.html
Tester(s)	Rebecca Wattam, Ron Kenyon
Test date	08-Jan-2022 (original - passed), 6-Ma-2022 (follow-up - passed)
Test Result	Passed

Overview

- Test the Specialty Genes Search using representative search criteria.
- Test using example Keyword, Pathogen Group, and Taxon Name.
- Test using Keyword and Pathogen Group only.
- Inspect search results to verify that they match search criteria.

Test Results

- Test results were verified by examination of returned data via inspection and filters.
- All searches returned expected data, with results matching search criteria.

Keyword and Other Search Criteria

Keyword: rplB

Pathogen Group: Campylobacter

Taxonomic Name: Campylobacter fetus

Advanced Search

Specialty Gene Search

Search for specialty genes annotated in microbial genomes, such as antimicrobial resistance genes, virulence factors, essential genes, drug targets, and human homologs. Search using generic keywords, pathogen group, property, source database, or protein product. For further explanation, please see the [Advanced Gene Search Quick Reference Guide](#).

Keyword
<input type="text" value="rplB"/>
Pathogen Group
<input type="text" value="Campylobacter"/>
Taxon Name
<input type="text" value="Campylobacter fetus"/>
Genome ID
<input type="text" value="529.8"/>
BRC ID
<input type="text" value="fig 114727.5.CDS.1"/>
Property
<input type="text" value="e.g. Virulence Factor"/>
Source
<input type="text" value="e.g. Victors"/>
Evidence
<input type="text" value="e.g. BLAT"/>
Gene
<input type="text" value="dnaA"/>
Product
<input type="text" value="ABC transporter"/>
Additional
<input type="text" value="evidence"/> <input type="text" value=""/> <input data-bbox="1166 1585 1198 1627" type="button" value="+"/>

Reset

Search

Result:

Specialty Gene List View
SPECIALTY GENES: **rplB** AND (3 Specialty Genes)

Specialty Genes

 **DOWNLOAD**

 **ADV Search**
 **FILTERS**


<input type="checkbox"/>	Evidence	Property	Source	BRC ID	RefSeq Locus Tag	Source ID	Gene	Product	Pubmed	Identity	E-value
<input type="checkbox"/>	FBA	Essential Gen	PATRIC	fig 1244528.3.peg	CFT03427_0035		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gen	PATRIC	fig 32019.17.peg	ERS739222_0117		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gen	PATRIC	fig 360106.6.peg	CFE8240_0037		rplB	LSU ribosomal protein L2p (L8e)			



Keyword: rplB
 Pathogen Group: Campylobacter

Result:

Specialty Gene List View
 SPECIALTY GENES: rplB AND (19 Specialty Genes)

Specialty Genes



<input type="checkbox"/>	Evidence	Property	Source	BRC ID	RefSeq Locus Tag	Source ID	Gene	Product	Pubmed	Identity	E-value
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 1032069.3.peg.1	CUREO_0112		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 824.5.peg.222	CGRAC_0171		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 199.248.peg.180	CCON33237_1752		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 1244531.3.peg.8	CIG1485E_0083		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 195.429.peg.219	ATE51_04348		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 306263.5.peg.61	Cla_0062		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 306264.5.peg.10	CUP1424		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 1183379.4.peg.1	YSS_09665		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 360104.9.peg.19	CCC13826_0352		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 553219.3.peg.45	CAMSH0001_1273		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 553218.4.peg.13	CAMRE0001_0206		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 360105.8.peg.19	CCV52592_1029		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 1244528.3.peg.3	CFT03427_0035		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 888826.3.peg.12	HMPREF9400_151C		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 553220.3.peg.44	CAMGR0001_0647		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 360107.7.peg.84	CHAB381_0087		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 32019.17.peg.11	ERS739222_01170		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 360106.6.peg.38	CFB240_0037		rplB	LSU ribosomal protein L2p (L8e)			
<input type="checkbox"/>	FBA	Essential Gene	PATRIC	fig 192222.6.peg.16	Cj1704c		rplB	LSU ribosomal protein L2p (L8e)			

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