# **BV-BRC Test Report**

# D10. Protein Structures Data Tab

Item to test	Protein Structures Data Tab			
URL	https://www.bv-brc.org/view/Taxonomy/194#view_tab=features			
Prerequisites	None			
References	https://www.bv- brc.org/docs/quick_references/organisms_taxon/protein_structures.html			
Tester(s)	Rebecca Wattam, Richard Scheuermann, Ron Kenyon			
Test date	6-Jan-2022 and 4-Feb-22 (original – partial success), 9-May-2022 (follow-up-passed)			
Test result	Passed			

### **Overview**

- Test the Protein Structures Tab with example bacterial and viral data.
- Verify structures exist.
- Test Structure action button.
- Test example structure operations.

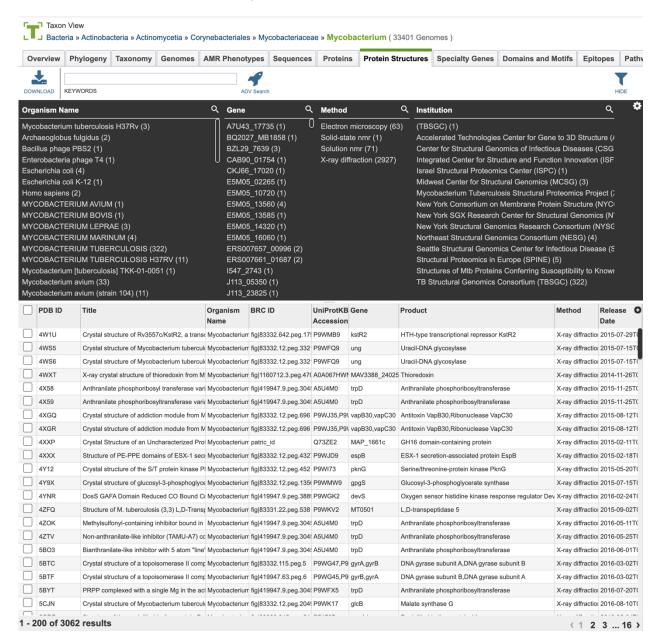
## **Test Results**

- Test results were verified by examination of returned data via inspection and filters.
- All operations performed as expected.
- Future enhancement:
  - o Issue: Parse gene names and resolution from PDB metadata.
  - Resolution: Updated the data loader to populate gene names and resolution from PDB metadata.

#### **Bacteria**

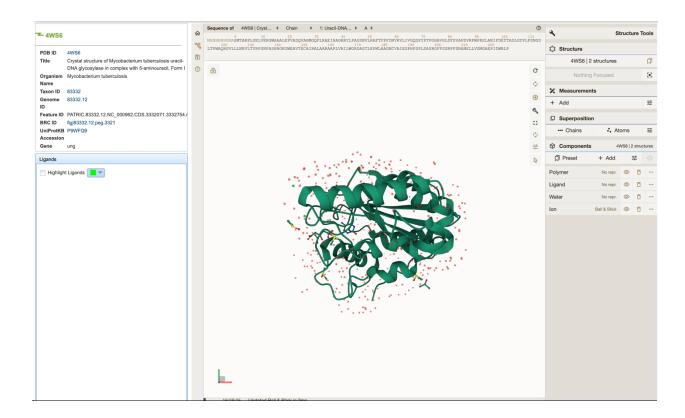
#### Mycobacterium:

#### Check of existence: Sum of Methods equals total count



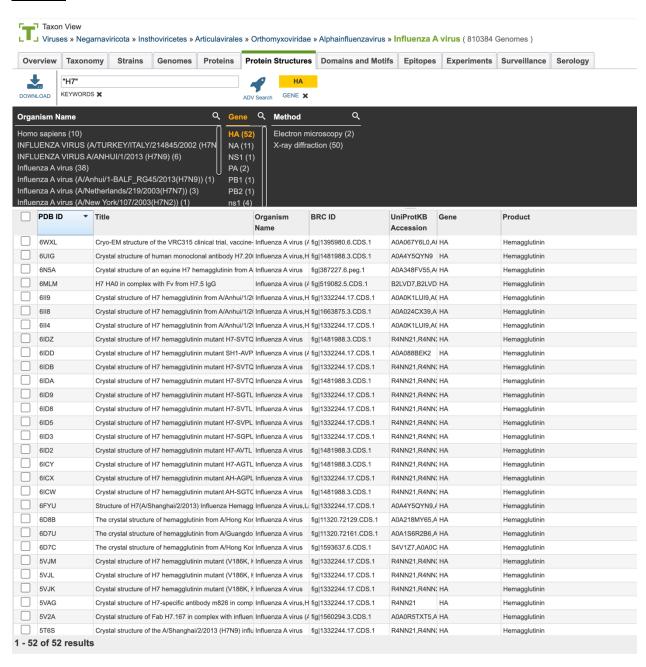
### Structure display:

PDB ID	Title	Organism	BRC ID	UniProtKB	Gene	Product	Method	Release
		Name		Accession				Date
4W1U	Crystal structure of Rv3557c/KstR2, a transc	Mycobacterium	fig 83332.642.peg.17	P9WMB9	kstR2	HTH-type transcriptional repressor KstR2	X-ray diffractio	2015-07-29T
4WS5	Crystal structure of Mycobacterium tubercule	Mycobacterium	fig 83332.12.peg.332	P9WFQ9	ung	Uracil-DNA glycosylase	X-ray diffractio	2015-07-15T
4WS6	Crystal structure of Mycobacterium tubercule	Mycobacterium	fig 83332.12.peg.332	P9WFQ9	ung	Uracil-DNA glycosylase	X-ray diffractio	2015-07-15T
4WXT	X-ray crystal structure of thioredoxin from M	Mycobacterium	fig 1160712.3.peg.470	A0A067HW	MAV3388_24025	Thioredoxin	X-ray diffractio	2014-11-26T
4X58	Anthranilate phosphoribosyl transferase vari	Mycobacterium	fig 419947.9.peg.304	A5U4M0	trpD	Anthranilate phosphoribosyltransferase	X-ray diffractio	2015-11-25T
4X59	Anthranilate phosphoribosyltransferase varia	Mycobacterium	fig 419947.9.peg.304	A5U4M0	trpD	Anthranilate phosphoribosyltransferase	X-ray diffractio	2015-11-25T

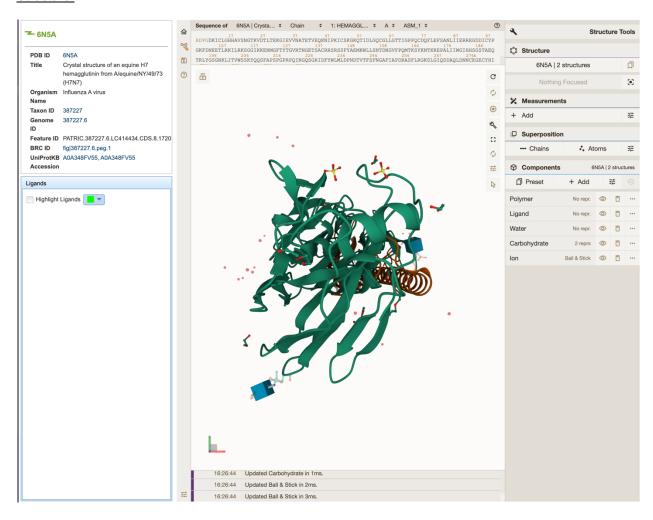


#### **Virus**

#### Influenza: H7 HA



#### Structure:



## Highlight ligands:

