

BV-BRC Test Report

S8. Epitopes Search

Item to test	Epitopes Search
URL	https://www.bv-brc.org/searches/EpitopeSearch
Prerequisites	None
References	https://www.bv-brc.org/docs/quick_references/searches_menu.html
Tester(s)	Ron Kenyon
Test date	6-May-2022
Test Result	Passed

Overview

- Test the Epitopes Search using representative search criteria.
- Test using example Pathogen Group and Protein Name.
- Test using example Keyword.
- 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

Pathogen Group: Influenza A Virus

Protein Name: nucleoprotein

Advanced Search

Epitope Search

Search for epitopes of interest using generic keywords, pathogen group or taxon name, epitope id, type, sequence, protein accession or product, or assay results. For further explanation, please see the [Advanced Search Quick Reference Guide](#).

Keyword
<input type="text" value="Search term"/>
Pathogen Group
<input type="text" value="Influenza A virus"/>
Taxon Name
<input type="text" value="e.g. Bacillus cereus"/>
Epitope ID
<input type="text" value="e.g. 92999"/>
Epitope Type
<input type="text" value="e.g. Linear Peptide"/>
Epitope Sequence
<input type="text" value="e.g. MVYQTLMLRSRDEPF"/>
Protein Name
<input type="text" value="nucleoprotein"/>
Protein Accession
<input type="text" value="e.g. Q8YC41"/>
Assay Results
<input type="checkbox"/> B CELL - POS <input type="checkbox"/> T CELL - POS <input type="checkbox"/> MHC - POS
<input type="checkbox"/> B CELL - NEG <input type="checkbox"/> T CELL - NEG <input type="checkbox"/> MHC - NEG
Additional
<input type="text" value="epitope id"/> <input type="text" value=""/> <input data-bbox="1203 1444 1235 1486" type="button" value="+"/>

Result:

Epitopes



KEYWORDS



Epitope Type	Protein Name	Host Name	Assay Results
Discontinuous peptide (10)	Nucleoprotein (1272)	Gallus gallus (chicken) (41)	B cell - Negative (7)
Linear peptide (1262)		Gallus gallus Leghorn (4)	B cell - Positive (26)
		Homo sapiens (1)	MHC - Negative (361)
		Homo sapiens (human) (555)	MHC - Positive (265)
		Homo sapiens Caucasian (22)	T cell - Negative (655)
		Maraca mulatta (rhesus macaque) (10)	T cell - Positive (527)

<input type="checkbox"/>	Epitope ID	Epitope Type	Epitope Sequence	Organism	Protein Name	Total Assays	Bcell Assays	Tcell Assays	MHC Assays
<input type="checkbox"/>	16522	Linear peptide	FLARSALIL	Influenza A virus	Nucleoprotein	12		1/8	4/4
<input type="checkbox"/>	167156	Linear peptide	RRSGAAVAHK	Influenza A virus	Nucleoprotein	2		2/2	
<input type="checkbox"/>	167893	Linear peptide	EDATAGLT	Influenza A virus	Nucleoprotein	2		0/2	
<input type="checkbox"/>	167899	Linear peptide	ERMVLSAF	Influenza A virus	Nucleoprotein	3		0/3	
<input type="checkbox"/>	167939	Linear peptide	IRASVGRMV	Influenza A virus	Nucleoprotein	2		0/2	
<input type="checkbox"/>	167950	Linear peptide	KRGINDRNF	Influenza A virus	Nucleoprotein	2		2/2	
<input type="checkbox"/>	167951	Linear peptide	KRSYEQME	Influenza A virus	Nucleoprotein	2		0/2	
<input type="checkbox"/>	167980	Linear peptide	NKYLEEHP	Influenza A virus	Nucleoprotein	2		0/2	
<input type="checkbox"/>	167989	Linear peptide	PKKTGGPIY	Influenza A virus	Nucleoprotein	2		2/2	
<input type="checkbox"/>	167993	Linear peptide	PSFDMSNE	Influenza A virus	Nucleoprotein	2		0/2	
<input type="checkbox"/>	168030	Linear peptide	VMELIRMI	Influenza A virus	Nucleoprotein	4		1/4	
<input type="checkbox"/>	17156	Linear peptide	FNGNTEGRTSDMRTI	Influenza A virus	Nucleoprotein	2		0/1	0/1
<input type="checkbox"/>	173003	Linear peptide	RGINDRNFWRGENG	Influenza A virus	Nucleoprotein	2		2/2	
<input type="checkbox"/>	17539	Linear peptide	FQTAAQR	Influenza A virus	Nucleoprotein	2	2/2		
<input type="checkbox"/>	175562	Linear peptide	AGAAVKGV	Influenza A virus	Nucleoprotein	1		0/1	
<input type="checkbox"/>	175569	Linear peptide	ARPEDVSF	Influenza A virus	Nucleoprotein	1		0/1	
<input type="checkbox"/>	175571	Linear peptide	AVKGVGTMV	Influenza A virus	Nucleoprotein	10		2/2	4/8
<input type="checkbox"/>	175575	Linear peptide	DGKWVREL	Influenza A virus	Nucleoprotein	1		0/1	
<input type="checkbox"/>	175576	Linear peptide	DGKWVRELI	Influenza A virus	Nucleoprotein	2		2/2	
<input type="checkbox"/>	175577	Linear peptide	DKEEIRRI	Influenza A virus	Nucleoprotein	1		0/1	

Keyword: Glycoprotein

Result:

Epitope List View
 EPITOPES: glycoprotein (42375 Epitope)

Epitopes





Epitope Type	Protein Name	Host Name	Assay Results
Discontinuous peptide (1098)	(A2) fusion glycoprotein Fo precursor (5)	9606 (1)	B cell - (2)
Discontinuous peptide on multi chain (88)	130 kDa Glycoprotein O (106)	Bos taurus (3)	B cell - Negative (28)
Linear peptide (41179)	Attachment glycoprotein (11)	Bos taurus (bovine) (199)	B cell - Positive (12)
Non-peptidic (10)	BclA protein (1)	Bos taurus Holstein (25)	MHC - Negative (25)
	Chain A, Spike glycoprotein, Spike glycoprotein (22)	Bos taurus Holstein-Friesian (7)	MHC - Positive (433)
	Chain A, Spike glycoprotein, Spike glycoprotein, inhibitor EK	Canis familiaris beagle (8)	T cell - Negative (53)
	Chain E, AMC011 Glycoprotein 120 (1)	Canis lupus familiaris (dogs) (95)	T cell - Positive (327)
	Chain P, Hiv Envelope Glycoprotein 120 Peptide (1)	Capra hircus (domestic goat) (12)	
	Core Structure of S2 from the Human Coronavirus NL63 S1	Capra hircus Saanen (1)	
	E2 glycoprotein precursor (177)	Cavia porcellus (guinea pig) (49)	
	EBOLA VIRUS ENVELOPE GLYCOPROTEIN (10)	Cavia porcellus Hartley (37)	
	EEV glycoprotein (1)	Cricetinae (hamster) (2)	
	Early E3 18.5 kDa glycoprotein (1)	Cricetulus migratorius (gray dwarf hamster) (4)	
	Envelope glycoprotein (1409)	Equus caballus (domestic horse) (133)	

<input type="checkbox"/>	Epitope ID	Epitope Type	Epitope Sequence	Organism	Protein Name	Total Assays	Bcell Assays	Tcell Assays	MHC Assays
<input type="checkbox"/>	40984	Linear peptide	LYVKGEPIL	Human orthopneumovirus	Fusion glycoprotein F0 1			0/1	
<input type="checkbox"/>	68436	Linear peptide	VFCDTMNSL	Human orthopneumovirus	Fusion glycoprotein F0 1			0/1	
<input type="checkbox"/>	12113	Linear peptide	EFYQSTCSAV	Human orthopneumovirus	Fusion glycoprotein F0 2			0/2	
<input type="checkbox"/>	18454	Linear peptide	FYQSTCSAV	Human orthopneumovirus	Fusion glycoprotein F0 3			2/3	
<input type="checkbox"/>	67389	Linear peptide	TYMLTNSL	Human orthopneumovirus	Fusion glycoprotein F0 6			6/6	
<input type="checkbox"/>	77421	Discontinuous peptide	N355, I357	Rabies lyssavirus	Glycoprotein	1	1/1		
<input type="checkbox"/>	19576	Linear peptide	GFLMHAPAFE	Human alphaherpesvirus 1	Envelope glycoprotein 2		0/2		
<input type="checkbox"/>	5904	Linear peptide	AYQQGVTVDSIGMLP	Human alphaherpesvirus 1	Envelope glycoprotein 2		1/2		
<input type="checkbox"/>	77418	Discontinuous peptide	K349, R352, I357	Rabies lyssavirus	Glycoprotein	1	1/1		
<input type="checkbox"/>	77423	Discontinuous peptide	R352, N355, I357	Rabies lyssavirus	Glycoprotein	1	1/1		
<input type="checkbox"/>	697081	Discontinuous peptide	B: D156; D: T45, Y46,	Human betaherpesvirus 5	Envelope glycoprotein 4		4/4		
<input type="checkbox"/>	28960	Linear peptide	ITKPNIRTTLLT	Human orthopneumovirus	Major surface glycopro 1		0/1		
<input type="checkbox"/>	30629	Linear peptide	KETLHSTSPEGN	Human orthopneumovirus	Major surface glycopro 2		2/2		
<input type="checkbox"/>	30655	Linear peptide	KEVLTKPTEKP	Human orthopneumovirus	Major surface glycopro 1		0/1		

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