

ABCpred Prediction Server

INPUT INFORMATION

Sequence name	
Length of the sequence	345
Number of 16mers from the input sequence	330
Threshold setting (Default value is 0.5)	0.51

TABULAR RESULT

Predicted B-cell epitope

The predicted B cell epitopes are ranked according to their score obtained by trained recurrent neural network.

Higher score of the peptide means the higher probability to be as epitope.

All the peptides shown here are above the threshold value chosen.

Rank	Sequence	Start position	Score	
1	GATGQVGQVMRTLLDE	9	0.93	
2	AAGVDESLVGRIRRD	294	0.92	
3	MSKVQAPRFAAAGVTV	76	0.90	
4	LFVSGDNLRKGAALNT	319	0.89	
5	GRIRRDPGVPDGRGLA	303	0.87	
6	GGAEQLVYDGGALEFP	179	0.86	
6	AHRRPKGIIANPNCTT	117	0.86	
7	AGVTVIDNSSAWRKDP	87	0.85	
7	EIEVEDAETADPSGLD	51	0.85	
8	DGGALEFPPPNTYVAP	187	0.82	
9	SSAWRKDPDVPLVSE	95	0.81	

9	GSLVDDGSGETDEDQK	212	0.81	
10	LVVSEVNFERDAHRRP	106	0.77	
11	IALFSAGSAMSQVQAP	67	0.76	
11	QAVSGSGLAGVAELAE	157	0.76	
12	QVMRTLLDERDFPASA	16	0.74	
13	DEDQKLRFESRKILGI	223	0.72	
14	LGIPDLLVSGTCVRVP	236	0.71	
14	KVLHDEARLVRLVVSS	140	0.71	
15	VPDGRGLALFVSGDNL	311	0.68	
15	SGTCVRVPVFTGHLS	244	0.68	
16	INAEFAQPLSPERARE	260	0.67	
16	PVFTGHLSINAEFAQ	251	0.67	
17	ARSQGRKLAFRGQEIE	38	0.66	
17	ARELLDGATGVQLVDV	273	0.66	
17	FPPNTYVAPIAFNVV	193	0.66	
18	GLAGVAELAEQARAVI	163	0.65	
18	AAMPVLKVLHDEARLV	134	0.65	
19	VRLVVSSYQAVSGSGL	149	0.63	
20	DPSGLDIALFSAGSAM	61	0.62	
21	GVQLVDVPTPLAAAGV	282	0.61	
22	LAEQARAVIGGAEQLV	170	0.59	
23	RFESRKILGIPDLLVS	229	0.57	
24	RDFPASAVRFFASARS	25	0.52	
24	VAPIAFNVVPLAGSLV	200	0.52	

OVERLAP DISPLAY

MGLSIGIVGATGQVGVQVMRTLLDERDFPASAVRFFASARSQGRKLAFRGQEIEVEDAETADPSGLDIALFSAGSAMSQVQAPR
 FAAAGVTVIDNSSAWRKDPDVPLVVSEVNFERDAHRRPKGI IANPNCTTMAAMPVLKVLHDEARLVRLVVSSYQAVSGSGLAG
 VAELAEQARAVIGGAEQLVYDGGALEFPPNTYVAPIAFNVVPLAGSLVDDGSGETDEDQKLRFESRKILGIPDLLVSGTCVR
 VPVFTGHLSINAEFAQPLSPERARELLDGATGVQLVDVPTPLAAAGVDESILVGRIRRDGVPDGRGLALFVSGDNLRKGAAL
 NTIQIAELLTADL³⁴⁵

 GATGQVGVQVMRTLLDE-----

AAGVDESLVGRIRRD

MSKVQAPRFAAAGVTV

LFVSGDNLRKGAALNT

GRIRRDPGVPDGRGLA

GGAEQLVYDGGALEFP

AHRRPKGI IANPNCTT

AGVTVIDNSSAWRKDP

EIEVEDAETADPSGLD

DGGALEFPPNTYVAP

SSAWRKDPDVPLVSE

GSLVDDGSGETDEDQK

LIVSEVNFERDAHRRP

IALFSAGSAMSQVQAP

QAVSGSGLAGVAELAE

QVMRTLLDERDFPASA

DEDQKLRFEERKILGI

LGIPDLLVSGTCVRVP

KVLHDEARLVRLVSS

VPDGRGLALFVSGDNL

SGTCVRVPVFTGHSL

INAEFAQPLSPERARE

PVFTGHSLINAEFAQ

ARSQGRKLAFRGQEIE

ARELLDGATGVQLVDV

FPPNTYVAPIAFNVV

GLAGVAELAEQARAVI

AAMPVLKVLHDEARLV

VRLVVSSYQAVSGSGL

DPSGLDIALFSAGSAM

GVQLVDVPTPLAAAGV

LAEQARAVIGGAEQLV

RFESRKILGIPDLLVS

RDFPASAVREFFASARS

VAPIAFNVVPLAGSLV-----
