

ABCpred Prediction Server

INPUT INFORMATION

Sequence name	
Length of the sequence	410
Number of 16mers from the input sequence	395
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	VNAGGGMVVADAALTP	342	0.93
2	GGTAGHVEPAMAVADA	43	0.88
3	GGRGATAPRPADAASP	10	0.86
4	VPMPRKPGGDLARLPS	95	0.85
5	LELITAVPMMPRKPGGD	89	0.84
5	AVSGAAADLAAAGVCV	247	0.84
6	ARDVLDDVDADVVG	119	0.82
7	LPAIYVPLPIGNGEQR	320	0.81
7	RRRAQGDPPYVAVPYL	275	0.81
7	SGLRRAEVVGVPRAS	191	0.81
8	MVVADAALTPELVARQ	348	0.80

8	EQRLNALPVVNAGGGM	333	0.80	
8	PVVIHEANARAGLANR	160	0.80	
8	SRVWRRAVREARDVLDD	110	0.80	
9	TPELVARQVAGLLTDP	356	0.79	
9	NRVGAHTADRVLSAVP	174	0.79	
9	AARGLPLPPRRRRIP	145	0.79	
10	PRPADAAASPSCGSSPS	17	0.78	
10	PRRRRRIPVVIHEANA	153	0.78	
11	ALVALDPRVRITALGT	58	0.75	
11	PLPIGNGEQRLNALPV	326	0.75	
11	LSAVPDSDLRRAEVVG	185	0.75	
12	VLRAEARAHF GFPDDA	214	0.74	
13	RVRITALGTLRGLETR	65	0.73	
13	VGHRDAAGQVARAALA	384	0.73	
14	AGLLTDPARLAAMTAA	365	0.72	
14	SVSVVLAGGGTAGHVE	35	0.72	
14	PQNVELRRRAQGDPP	268	0.72	
14	GGYVALPAYLAARGLP	135	0.72	
15	AMTAAAARVGH RDAAG	376	0.71	
15	CRAGAMTVAEVSAVGL	305	0.71	
15	GGSQGAVSLNRAVSGA	236	0.71	
16	TRLVPQRGYHLELITA	79	0.70	
16	RASIAALDRAVLRAEA	204	0.70	
17	DRMELAYAAADLVICR	291	0.69	
17	GGDLARLPSRVWRAVR	102	0.69	
18	GQVARAALAVATGAGA	391	0.68	
19	RAHFGFPDDARVLLVF	220	0.67	
20	PSCGSSPSADSVSVVL	25	0.66	
21	CVLHAHGPQNVLELRR	261	0.65	
22	TVAEVSAVGLPAIYVP	311	0.63	
22	ADLAAAGVCVLHAHGP	253	0.63	
23	PYVAVPYLDRMELAYA	283	0.62	
24	EVVGVPVRASIAALDR	197	0.59	

OVERLAP DISPLAY

VKDTVSQPAGGRGATAPRPADAASPSCGSSPSADSVVLAGGGTAGHVEPAMAVADALVALDPRVRITALGTLRGLERLVP
QRGYHLELITAVPMPRKPGGDLARLPSRVRAVREARDVLDDVDADVVGFGGYVALPAYLAARGLPLPPRRRRIPVVIHEA
NARAGLANRVGAHTADRVLSAVPDGLRRAEVVGVPVRASIAALDRAVLRAEarahFGFPDDRVLVFGGSQGAVSLNRAVS
GAAADLAAAGVCVLHAHPQNVLERRAQGDPPYVAVPYLDRMELAYAADLVICRAGAMTVAEVSAGLPAlYVPLPIGN
EQRLNALPVVNAGGMVVADAALTPELVARQVAGLLTDPARLAAMTAAAARVGHDAAGQVARAALAVATGAGARTT⁴¹⁰

VNAGGGMVVADAALT

GGTAGHVEPAMAVADA

GGRGATAPRPADAASP

VPMRKP GGD LARLPS

LELITAVPMPRKPGD

AVSGAAADLAAAGVCV

ARDVLDDVDADVVG

LPAIYVPLPIGNGEQR

RRRAQGDPPYVAVPYL

SGLRRAEVVGVPVRAS

-MVVADAALTPELVARQ-

EQRLNALPVVNAGGGM

PVVIHEANARAGLANR

SRVWRAVREARDVLDD

-TPELVARQVAGLLTDP-

NRVGAHTADRVLSAVP

AARGLPLPPRRRRIP

PRPADAASPSCGSSPS

PRRRRIPIPVVVIHEANA

ALVALDPRVRITALGT

PLPIGNGEQRLNALPV

LSAVPDSDLRRAEVVG

VLRAEARAHFGFPDDA

RVRITALGTLRGLETR

VGHRDAAGQVARAALA

AGLLTDPARLAAMTAA

SVSVVLAGGGTAGHVE

PQNVLIELRRRAQGDPP

GGYVALPAYLAARGLP

-AMTAAAARVGHHRDAAG-

CRAGAMTVAEVSAVGL

GGSQGAVSLNRAVSGA

TRLVPQRGYHLELITA

RASIAALDRAVLRAEA

DRMELAYAAADLVICR

GGDLARLPSRVWR AVR

-GQVARAALAVATGAGA-

RAHFGFPDDARVLLVF

PSCGSSPSADS VVVI

CVLHAHGPQNVELR

TVAEVSAVGLPAIYVP

ADLAAAGVCVLHAHGP

PYVAVPYLDRMELAYA

EVVGVPVRASIAALDR