

ABCpred Prediction Server

INPUT INFORMATION

Sequence name	
Length of the sequence	494
Number of 16mers from the input sequence	479
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	AGTNAHHGSGDCFVAE	155	0.91	
2	AGRTTLMVTGTHGKTT	113	0.90	
3	AREQPLAGVSGASVAE	415	0.89	
3	LATAQGPRVMRLSVPG	280	0.89	
4	HVTVPMRYVPDFSAVA	431	0.88	
4	ADEVFVLDVYGAREQP	404	0.88	
5	GPEILTALRVRANRSA	471	0.86	
5	ASPGDVIVTMGAGDVT	453	0.86	
5	GMSGIARILLDRGGLV	22	0.86	
6	QQVAAAASPGDVIVTM	447	0.85	
6	VLEQGDGGRCMVVFQP	369	0.85	

7	GTHGKTTTTSMILVAL	122	0.84	
8	MGAGDVTLLGPEILTA	462	0.83	
8	SRTKAFAAEFGRALNA	388	0.83	
8	ALVVCTDDPGGAALAQ	221	0.83	
8	PSFAVGGELGEAGTNA	144	0.83	
9	PELVEARRRGIPVVLRL	89	0.82	
9	AALAQRATELGIRVLR	232	0.82	
9	CFVAEAEDES DG SLLQY	166	0.82	
10	VMRLSVPGRHMALNAL	288	0.80	
10	RVLRYGSVPGETMAAT	244	0.80	
10	G SLLQYTPHVAVITNI	176	0.80	
11	AGVSGASVAEHVTVPM	421	0.79	
12	PTEISATLAAARMVLE	356	0.77	
13	LVSGSDAKESRGVHAL	36	0.76	
14	VAHIRLASELATAQGP	271	0.75	
14	PGETMAATLVSWQQQG	252	0.75	
14	FVERIVPGGALVVCTD	212	0.75	
14	HVAVITNIESDHLDFY	184	0.75	
15	VSTEQLPPDLRRVHMV	1	0.74	
16	LGALLAAVQIGAPADE	303	0.73	
16	VHVMVGIGGAGMSGIAR	13	0.73	
17	SVRVFDDYAHHPTEIS	345	0.72	
18	DASSLDLLPGGATAVV	63	0.71	
18	PGRHMALNALGALLAA	294	0.71	
18	LQHCGLDPSFAVGGEL	137	0.71	
19	G VRRRFELVGTGCVGK	328	0.70	
20	ATAVVTTHAAIPKTNP	74	0.67	
20	ALIRIGHDASSLDLLP	56	0.67	
20	GLAGFEGVRRRFELVG	322	0.67	
21	RRRGIPVVLRLPAVLAK	95	0.66	
21	SMLIVALQHCGLDPSF	131	0.66	
22	MVVVFQPHLYSRTKAFA	379	0.65	
22	GSVEAYVAVFDSFVER	200	0.65	
23	ILLDRGGLVSGSDAKE	29	0.64	

23	TLVSWQQQGVGAVAH	259	0.64	
24	RVRANRSAPGRPGVLG	479	0.62	
25	QIGAPADEVLDGLAGF	311	0.61	
26	AVLAKLMAGRITLMVT	106	0.58	
27	KESRGVHALRARGALI	43	0.57	
27	SDHLDFYGSVEAYVAV	193	0.57	

OVERLAP DISPLAY

VSTEQLPPDLRRVHVMVGIGGAGMSGIARILLDRGGLVSGSDAKESRGVHALRARGALIRIGHDASSLDLLPGGATAVVTTHAA
 IPKTNPELVEARRRGIPVVLRPVAVLAKLMAGRITLMVTGTHGKTTTTSMILIVALQHCGLDPSFAVGGELGEAGTNAHHGSGDC
 FVAEADESDGSLLQYTPHVAVITNIESDHLDFYGSVEAYVAVFDSFVERIVPGGALVVCTDDPGGAALAQRATELGIRVRLRYG
 SVPGETMAATLVSWQQQGVGAVAHIRLASELATAQGPRVMRLSVPGRHMALNALGALLAAVQIGAPADEVLDGLAGFEGVRRR
 FELVGTGCGVGKASVRVFDYAHHPTEISATLAAARMVLEQGDGGRMVFQPHLYSRKAFAAEFGRALNADEVFVLDVYGA
 REQPLAGVSGASVAEHVTVPMPRYVPDFSAVAQQVAAAASPGDVIVTMGAGDVTLLGPEILTALRVRANRSAPGRPGVLG⁴⁹⁴

 AGTNAHHGSGDCFVAE-----

 AGRTTLMVTGTHGKTT-----

 AREQPLAGVSGASVAE-----

 LATAQGPRVMRLSVPG-----

HVTVPMRYVPDFSAVA

ADEVFVLDVYGAREQP

GPEILTALRVRANRSA

ASPGDVIVTMGAGDVT

GMSGIARILLDRGGLV

QQVAAAASPGDVIVTM

VLEQGDGGRCMVVFQP

GTHGKTTTTSMILVAL

MGAGDVTLGPEILTA

SRTKAFAAEFGRALNA

ALVVCTDDPGGAALAQ

PSFAVGGELGEAGTNA

PELVEARRRGI PVVLR

AALAQRATELGIRVLR

CFVAEAEDES DGSLLQY

VMRLSV PGRHMALNAL

RVLR YG SVPGETMAAT

G SLLQYTPHVAVITNI

AGVSGASVAEHVTVPM

PTEISATLAAARMVLE

LVSGSDAKESRGVHAL

VAHIRLASELATAQGP

PGETMAATLVSWQQQG

FVERIVPGGALVVCTD

HVAVITNIESDHLDY

VSTEQLPPDLRRVHMV

LGALLAAVQIGAPADE

VHVMGIGGAGMSGIAR

SVRVFDDYAHHPTEIS

DASSLDLLPGGATAVV

PGRHMALNALGALLAA

LQHCGLDPSFAVGGEL

GVRRRFELVGTCTGVGK

ATAVVTTTHAAI PKTNP

ALIRIGHDASSLDLLP

GLAGFEGVRRRFELVG

RRRGIPVVL RPAVLAK

SMLIVALQHCGLDPSF

MVVFQPHLYSRTKAFA

GSVEAYVAVFDSFVER

ILLDRGGLVSGSDAKE

TLVSWQQQGVGAVAH I

RVRANRSAPGRPGVLG

QIGAPADEVLDGLAGF

AVLAKLMAGRTTLMVT-----

KESRGVHALRARGALI-----

SDHLDFYGSVEAYVAV-----

