

ABCpred Prediction Server

INPUT INFORMATION

Sequence name	
Length of the sequence	969
Number of 16mers from the input sequence	954
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	TGAIMAVPGHDQRDWD	437	0.96
1	TESPTAGPGGVPRADD	2	0.96
2	QGYIQAYAYTDARGSY	694	0.93
2	LGHVSSREPYRRLVNQ	679	0.93
2	NEEVTDGRSDRGNF	252	0.93
3	AGRGRARIEFKLRDWL	506	0.92
4	DGEVEVFQEFGKIGKS	728	0.91
4	GARCLDGGRDWAKLTA	205	0.91
5	GEAIAAYRRAIAAKSD	381	0.90
5	GRLGFGHDSRRSFSTT	150	0.90
6	AKLIEYTNHLTKKHRD	842	0.89

6	ENEAYWMGPRPAEHGP	631	0.89	
6	DVPDYSPVLFDPDDAD	556	0.89	
6	PFPIVYDSDGRPHALD	531	0.89	
6	GGRDWAKLTAGERADV	211	0.89	
6	IFLQIYNNAWFDTTANK	176	0.89	
7	AGSSWYELRYTDPHNS	609	0.88	
7	LWTYGGGTPGEAIAAY	372	0.88	
7	ARLERTWQENWARLGT	33	0.88	
8	AYLVDETVEYPVQVNG	903	0.87	
8	DEICDAYGADTLRVYE	751	0.87	
8	EQVIERGDRFVYPGPD	713	0.87	
8	GNISESAYTGDGILVN	468	0.87	
8	TGTHPRTRTEANVVNF	130	0.87	
9	LGDGLKPYSRDTNVMP	591	0.86	
9	DDADSEPSPLAKATE	568	0.86	
9	PVGSLAPPDGAAVPDD	54	0.86	
9	PAEQYAVQTGTHPRTR	122	0.86	
10	APHIAEELWLRLGNTT	875	0.85	
10	LFSARAASDDGFEVDI	317	0.85	
11	YEMSMGPLLEASRPWAT	765	0.84	
11	TEWVHVLDLGLKPD	582	0.84	
12	EHTGETRVADGVELDI	800	0.83	
12	GPRPAEHGPDDPGGVVD	638	0.83	
12	QRDWDFARAFGLPIVE	448	0.83	
12	PVPIFIADYVLAGYGT	422	0.83	
13	PGGVRADDADSDVPR	9	0.82	
13	GVSEDFAALRNNTATA	827	0.82	
13	LGTFNVPNPVGSLAPP	46	0.82	
14	ATDVYARYFRMVGRNV	95	0.81	
14	GKSLKNSVSPDEICDA	741	0.81	
14	PGGVDLYVGGAEHAVL	649	0.81	
14	ALPVELPDVPDYSVPVL	549	0.81	
15	GLHVGHPLGYIATDVY	84	0.80	
15	SRRSFSTTDVDFYRWT	158	0.80	

15	GFDAFGLPAEQYAVQT	115	0.80	
16	VVVAADTDEETLKAAV	924	0.79	
16	GVELLDIDLRLHRTI	810	0.79	
16	FVQDMFPYPSGEGLHV	72	0.79	
16	LRQWMMRITAYADRLL	273	0.79	
16	RSDRGNFPVFRKRLRQ	260	0.79	
16	GRNVLHALGFDAFGLP	107	0.79	
17	YSRFWHKVLYDLGHVS	668	0.78	
18	GAAVPDDKLFVQDMFP	63	0.77	
18	VDRLESAGRGRARIEF	500	0.77	
18	WPAGVNPLWTYGGGTP	365	0.77	
18	ADVIDEYRLVYRADSL	224	0.77	
19	TKDVGAYRFLQRVWR	780	0.76	
19	MQRNWIGRSTGAVALF	303	0.76	
19	VYRADSLVNWCPLGLT	233	0.76	
20	LRYTDPHNSERFCAKE	616	0.75	
21	DRFVYPGPDPGEVEVFQ	720	0.74	
21	PSPPLAKATEWVHVDL	574	0.74	
22	PYPSGEGLHVGHPLGY	78	0.73	
22	GRSTGAVALFSARAAS	309	0.73	
23	YRRAIAAKSDLERQES	387	0.72	
24	LVDELVAASWPAGVNP	356	0.71	
24	AWFDTTANKARPISEL	183	0.71	
25	EETLKAAVLTDEKVQA	932	0.70	
25	TTSLAHGPFPKADAAY	889	0.70	
25	AYTGDGILVNSDYLNG	474	0.70	
25	IVEVIAGGNISESAYT	461	0.70	
25	RAFGLPIVEVIAGGNI	455	0.70	
25	VFTTRPDTLFGATYLV	334	0.70	
25	ADSDVPRYRYTAELAA	18	0.70	
26	VLTDEKVQAFLAGATP	939	0.69	
26	FPKADAAYLVDETVEY	897	0.69	
26	DAVPRAAVEPLVQMLA	857	0.69	
27	QMLAPLAPHIAEELWL	869	0.68	

27	DGFEVDIEVFTTRPDT	326	0.68	
28	AGATPRKVIVVAGRLV	950	0.67	
28	SREKTGVFLGSYAINP	402	0.67	
29	PEQVKTMQRNWIGRST	297	0.66	
29	AYADRLLDDLDVLDWP	282	0.66	
30	NHLTKKHRDAVPRAAV	849	0.65	
30	YTDARGSYVPAEQVIE	702	0.65	
31	LWLRLGNTTSLAHGPF	882	0.64	
31	VFLGSYAINPANGEPV	408	0.64	
31	WQENWARLGTFNVPNP	39	0.64	
31	WCPGLGTVLANEETVA	242	0.64	
32	QRVWRLVVDEHTGETR	791	0.63	
32	DLDVLDWPEQVKTMQR	290	0.63	
33	AKSDLERQESREKTGV	393	0.62	
34	TLFGATYLVLAPEHDL	341	0.60	
35	INPANGEPVPIFIADY	415	0.57	

OVERLAP DISPLAY

VTESPTAGPGGVPRADDADSDVPRYRYTAELAARLERTWQENWARLGTNVNPVGSLAPPDGAAVPDDKLFVQDMFPYPSGE
 GLHVGHPLGYIATDVFYARYFRMVGRNVLHALGFDAFGLPAEQYAVQTGTHPRTRTEANVNFRQLGRLGFGHDSRRSFSTTD
 VDFYRWTQWIFIQIYNAWFDTTANKARPISELVAEFESEGRCLDGGRDWAKLTAGERADVIDEYRLVYRADSLVNCPGLGTV
 LANEEVTADGRSDRGNFPVFRKRLRQWMMRITAYADRLLDDVLDWPEQVKTMQRNWIGRSTGAVALFSARAASDDGFEVDI
 EVFTTRPDTLFGATYLVLAPEHDLVDELVAASWPAGVNPLWTYGGGTPGEAIAAYRRRAIAAKSDLERQESREKTGVFLGSYAI
 NPANGEPVPIFIADYVLAGYGTGAIMAVPGHDQRDWDFARAFGLPIVEVIAGGNISESAYTGDGILVNSDYLNGMSVPAAKRA
 IVDRLESAGRGRARIEFKLIRDWLFFARQRYWGEFPPIVYDSDGRPHALDEAALPVLPVDSPVLFDPDDADSESPPLAKA
 TEWVHVLDLGLKPYRSRDTNMPQWAGSSWYELRYTDPHNSERFCAKENEAYWMGPRPAEHGPDDPGGVLYVGGAEHAVL
 HLLYSRFWHKVLYDLGHVSSREPYRRLVNQGYIQAYAYTDARGSYVPAEQVIERGDRFVYPGPGEVEVFQEFGKIGKSLKNS
 VSPDEICDAYGADTLRVYEMSMGPLEARPWATKDVVGAYRFLQRVWRLVVDEHTGETRVADGVELDIDTLRALHRTIVGVSE
 DFAALRNNTATAKLIETNHLTKKHRDAVPRAAVEPLVQMLAPLAPHIAEELWLRLGNTTSLAHGPFPKADAAYLVDETVEYP
 VQVNGKVRGRVVVAADTDEETLKAFLTDEKQFLAGATPRKVIVVAGRLVNLI⁹⁶⁹

TGAIMAVPGHDQRDWD

TESPTAGPGGVPRADD

QGYIQAYAYTDARGSY

LGHVSSREPYRRLVNQ

NEEVVTADGRSDRGNF

AGRGRARIEFKLRDWL

DGEVEVFQEFKGKIGKS

GARCLDGGRDWAKLTA

GEAIAAYRRAIAAKSD

GRLGFGHDSRRSFSTT

AKLIEYTNHLTKKHRD

ENEAYWMGPRPAEHGP

DVPDYSPVLFDPDDAD

PFPIVYDSDGRPHALD

GGRDWAKLTAGERADV

I FLQIYNAWFDTTANK

AGSSWYELRYTDPHNS

LWTYGGGTPGEAIAAY

ARLERTWQENWARLGT

AYLVDETVEYPVQVNG

DEICDAYGADTLRVYE

EQVIERGDRFVYPGPD

GNISESAYTGDGILVN

TGTHPRTRTEANVVNF

LGDGLKPYSRDTNVMP

DDADSEPSPLAKATE

PVGSLAPPDGAAVPDD

PAEQYAVQTGTHPRTR

APHIAEELWLRLGNTT

LFSARAASDDGFEVDI

YEMSMGPLEASRPWAT

TEWVHVLDLGDGLKP

EHTGETRVADGVELDI

GPRPAEHGPDDPGGVD

QRDWDFARAFGLPIVE

PVPIFIADYVLAGYGT

PGGVPRADDADSDVPR

GVSEDFAALRNNTATA

LGTNFNPNPVGSLAPP

ATDVYARYFRMVGRNV

GKSLKNSVSPDEICDA

PGGVVDLYVGGAEHAVL

ALPVELPDVPDYS
PVL

GLHVGHPLGYIATDVY

SRRSFSTTDVDFYRWT

GFDAFGLPAEQYAVQT

VVVAADTDEETLKA
AV

GVELDIDTLRALHRTI

FVQDMFPYPSPSGEGLHV

LRQWMMRITAYADRLL

RSDRGNFPVFRKRLRQ

GRNVILHALGFDAFGLP

YSRFWHKVLYDLGHVS

GAAVPDDKLFVQDMFP

VDRLESAGRGRARIEF

WPAGVNPLWTYGGGTP

ADVIDEYRLVYRADSL

TKDVVGAYRFQRVWR

MQRNWIQRSTGAVALF

VYRADSLVNWCPLG

LRYTDPHN SERFCAKE

DRFVYPGPDGEVEVFQ

PSPPLAKATEWVHVDL

PYPSGEGLHVGHPLGY

GRSTGAVALFSARAAS

YRRAIAAKSDLERQES

LVDELVAASWPAGVNP

AWFDTTANKARPISEL

EETLKAAVLTDEKVQA

TTSLAHGPFPKADAAY

AYTGDGILVNSDYLNG

I V E V I A G G N I S E S A Y T

R A F G L P I V E V I A G G N I

V F T T R P D T L F G A T Y L V

A D S D V P R Y R Y T A E L A A

VLTDEKVQAFLAGATP

FPKADAAYLVDETVEY

DAVPRAAVEPLVQMLA

QMLAPLAPHIAEELWL

DGFEVDIEVFTTRPDT

-AGATPRKVIVVAGRLV-

SREKTGVFLGSYAINP

PEQVKTMQRNWIGRST

AYADRLLDDLDVLDWP

NHLTKKHRDAVPRAAV

YTDARGSYVPAEQVIE

LWRLGNTTSLAHGPF

VFLGSYAINPANGEPV

WQENWARLGTNFNPNP

WCPGLGTVLANEEVTA

QRVWRLVVDEHTGETR

DLDVLDWPEQVKTMQR

AKSDILERQESREKTGV

TLFGATYLVLAPEHDL

INPANGEPVPIFIADY