

ABCpred Prediction Server

INPUT INFORMATION

Sequence name	
Length of the sequence	575
Number of 16mers from the input sequence	560
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	FSAGGYPLEFGTISVS	80	0.90	
1	TPPDGKVLRALANP	376	0.90	
1	DVTIIDAFEAVGACSR	177	0.90	
2	FSRIGSGVPHLADVKP	313	0.89	
2	ICPGEGACGGMYTANT	207	0.89	
3	YEGPKGGPGMREMLAI	454	0.87	
3	DHIGGPVVMKALLDA	338	0.87	
4	DGISMGHEGMHFSLVS	96	0.86	
4	RFSGGTTGLCVGHIAP	489	0.86	
4	EMLAITGAIKGAGLGK	465	0.86	
4	HPSGGITILHGSLAPE	393	0.86	

4	TVTGHTMAENLAAITP	362	0.86	
5	GRHVMSVDHIGGVPV	330	0.85	
5	VGACSRGLMSRADVDA	187	0.85	
6	PHLADVKPFGRHVMSD	321	0.84	
6	CGGMYTANTMASAAEA	214	0.84	
7	ASRQQDFSPPPPRTYTT	540	0.83	
7	LDVLADPAEFASRQQD	530	0.83	
7	KALLDAGLLHGDCDTV	348	0.83	
7	TDRRRDGFFARRSGQAV	243	0.83	
7	SVSTVADIKPNSRDVT	10	0.83	
8	IRLDVAGRVLVDVLADP	521	0.82	
8	DVFEGTARVFDGERAA	420	0.82	
8	GITARDILTKEAFENA	265	0.82	
8	SREVIADSVEVVMQAE	111	0.82	
9	TITVGDAVVIRYEGPK	443	0.81	
10	ASSWNEITPCNLSLDR	55	0.80	
10	GHIAPEAVDGGPIALL	500	0.80	
10	AVVKTAGFDSDVFEGT	410	0.80	
10	VDAIERAICPGEGACG	200	0.80	
11	RAVGMDDEDFAKPQIG	38	0.79	
11	HLLAIAHEANVALSLQ	296	0.79	
11	SRDVTDGLEKAAARGM	21	0.79	
11	GLMSRADVDAIERAIC	193	0.79	
12	PGRAKLSDGSERDVTI	165	0.78	
13	FLYAGSILPGRAK LSD	157	0.77	
14	LRALANPIHPSGGITI	385	0.74	
15	GGPIALLRNGDRIRLD	509	0.73	
15	PGMLMAAARLDLAAVF	142	0.73	
16	DVLLTDGRFSGGTTG	481	0.71	
16	AKPQIGVASSWNEITP	48	0.71	
16	VVMAFGGSTNAVLHLL	283	0.71	
16	EGMHFSLVSREVIADS	103	0.71	
17	PPPRYTTGVLSKYVKL	549	0.69	
18	AEALGMSLPGSAAPPA	227	0.67	

19	SVEVVMQAERLDGSVL	118	0.66	
20	ITPCNLSLDRLANAVK	61	0.65	
20	TGVL SKYVKLVSSAAV	555	0.65	
21	QAERLDGSVLLAGCDK	124	0.64	
22	AFENAIAVVMAFGGST	276	0.63	
23	LLAGCDKSLPGMLMAA	133	0.62	
24	LANAVKEGVFSAGGYP	71	0.61	
25	GAIKGAGLGKDVLLLT	471	0.60	
26	TTDEAASVSTVADIKP	4	0.59	

OVERLAP DISPLAY

MPQTTEAASVSTVADIKPRSRDVTDGLEKAAARGMLRAVGMDDEFAKPQIGVASSWNEITPCNLSLDRLANAVKEGVFSAG
 GYPLEFGTISVSDGISMHGEGMHFSIHSREVIADSVEVVMQAERLDGSVLLAGCDKSLPGMLMAAARLDLAASFYAGSILPG
 RAKLSDGSERDVTIIDAFEAVGACSRGLMSRADVDALERAICPGEAACGGMYTANTMASAAEALGMSLPGSAAPPATDRRRDG
 FARRSGQAVVELLRRGITARDILTKEFENAIAVVMAFGGSTNAVLHLLAIAHEANVALSLQDFSRIGSGVPHLADVKPGRH
 VMSDVDHIGGPVVMKALLDAGLLHDCLTVTGHMAENLAAITPPDPDGKVLRALANPIHPSGGITILHGS LAPEGAVVKTA
 GFDSDVFEGTARVFDGERALDALEDTITVGDVVIRYEGPKGGPGMREMLAITGAIKGAGLGKDVLLLTDGRFSGGTTGLC
 VGHIAPEAVDGGPIALLRNGDRIRLDVAGRVLADPAEFASRQQDFSPPPRTTGVL SKYVKLVSSAAVGAVCG⁵⁷⁵

 FSAGGYPLEFGTISVS-----

 TPPDPDGKVLRALANP-----

 DVTIIDAFEAVGACSR-----

FSRIGSGVPHLADVKP

ICPGEGACGGMYTANT

YEGPKGGPGMREMLAI

DHIGGVPVVMKALLDA

DGISMGHEGMHFSLVS

RFSGGTTGLCVGHIAP

EMLAITGAIKGAGLGK

HPSGGITILHGSLAPE

TVTGH TMAENLAAITP

GRHVMSDVDHIGGVPV

VGACSRGLMSRADVDA

PHLADVKPFGRHVMSD-

CGGMYTANTMASAAEA-

—ASRQQDFSPPPPRYTT—

-LDVLADPAEFASRQD-

KALLDAGLLHGDCCLTV

TDRRRDGFFARRSGQAV

SVSTVADIKPRS RDVT

IRLDVAGRVL DVLA DP

DVFEGTARVFDGERAA

GITARDILTKEAFENA

SREVIADSVEVVMQAE

TITVGDAVVIRYEGPK

ASSWNEITPCNLSLDR

GHIAPEAVDGGLPIALL

AVVKTAGFDSDVFEQT

VDAIERAICPGEGACG

RAVGMDDEDFAKPQIG

HLLAIHEANVALSLO

SRDVTDGLEKAAARGM

GLMSRADVDAIERAIC

PGRAKLSDGSERDVTI

FLYAGSILPGRAKLSD

LRALANPIHPSGGITI

GGPIALLRNGDRIRLD

PGMLMAAARLDIAAVF

DVLLLTDGRFSGGTTG

AKPQIGVASSWNEITP

VVMAFGGSTNAVLHLL

EGMHFSLVSREVIADS

PPPRYTTGVLSKYVKL

AEALGMSLPGSAAPPA

SVEVVMQAERLDGSVL

ITPCNLSLDRLANAVK

TGVLSKYVKLVSSAAV

QAERLDGSVLLAGCDK

AFENAIAAVVMAFGGST

LLAGCDKSLPGMLMAA

LANAVKEGVFSAGGYP

GAIKGAGLGKDVLLLT

TTDEAASVSTVADIKP