

ABCpred Prediction Server

INPUT INFORMATION

Sequence name	
Length of the sequence	679
Number of 16mers from the input sequence	664
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	PGSIQMGGVTVHDAWE	411	0.95	
2	VGGIDWDGHLLGLED	255	0.93	
3	GVVIPGSYRNRHKAVH	291	0.92	
4	PGAQEVGQRKRPGKTQ	25	0.91	
4	SQSQSTRPARGLRPP	10	0.91	
5	PRIIKATVAPDGS RTE	526	0.90	
5	DGSVTYDRGSDGVVIP	280	0.90	
6	PGYQMAGKTGTAQQIN	585	0.89	
6	DGSRTEEP R PDDIRVV	536	0.89	
6	TGMYQAIANDGVRVPP	511	0.89	
6	M TLLQMTGMYQAIAND	505	0.89	

6	HGVMPYTTTGVFGKSS	427	0.89	
7	GVTVHDAWEHGVMPYT	418	0.88	
8	AVVQRDPMGYQQGTGP	565	0.87	
9	SDVAPAGRSTRARRTR	57	0.86	
9	DPSQDIGRQGDKQLGN	360	0.86	
9	AICAKYPEVGAERQDL	227	0.86	
10	YQQGTGPTAGVPGYQM	574	0.85	
10	VSSPFEPGSVNKIVAA	378	0.85	
11	VGTRGASFVFRHRTGN	77	0.84	
11	DGVRVPPRIIKATVAP	520	0.84	
11	QRTGVGLPGESAGLVP	469	0.84	
12	PGHSAAPLFHNIAGWL	643	0.83	
12	QQVQQAKNLSGAHNVS	324	0.83	
12	PKRIRRQLEEARCKTS	159	0.83	
13	MQRENVPLSPDPGPPL	659	0.82	
13	RYVIGIMLDNPARNSD	625	0.82	
13	ERYDMLRKFGLGQRT	456	0.82	
13	AERQDLRQYPGGSLAA	237	0.82	
14	VVSAQTAQTVRQMLRA	550	0.81	
14	GRQGDKQLGNPAVSSP	366	0.81	
15	CGCYFDDVYWITFAGI	603	0.80	
15	GQRKRPGKTQKARQAQ	31	0.80	
16	LFHNIAGWLMQRENV	650	0.79	
16	AQTVRQMLRAVVQRDP	556	0.79	
16	RGSIVDRNNDRLAFTI	135	0.79	
16	TDVQPAARGSIVDRNN	128	0.79	
17	GAHNVS AVVLD AKTGE	334	0.78	
17	PGGSLAANVVGIDWD	246	0.78	
17	TSAAPDPQQRLDIAQ	173	0.78	
18	RRTRQVVDVGTRGASF	69	0.77	
18	QEATKSRPATRSDVAP	46	0.77	
18	RHKAVHGSTVVLTLDN	301	0.77	
18	RGLRRPPGAQEVGQRK	19	0.77	
19	GRSTRARRTRQVVDVG	63	0.76	

19	LDAKTGEVLAMANDNT	343	0.76	
19	LRDIAQEVAAGKLNNKP	183	0.76	
20	AGIATADNPRYVIGIM	616	0.75	
21	ASAVIEHGLSSPDEVL	393	0.74	
21	EVAGKLNNKPDAAAVL	189	0.74	
22	VPPIDQWSGSTFANLP	483	0.73	
22	VLAMANDNTFDPSQDI	350	0.73	
23	GVFGKSSNVGTLMLSQ	436	0.72	
23	LRAQAAGQLKVTDVQP	117	0.72	
24	TQKARQAQEATKSRPA	39	0.71	
24	DGHGLLGLEDSLDAVL	261	0.71	
25	SGSTFANLPIGQGLSM	490	0.69	
25	VGTLMLSQRVGPERRY	444	0.69	
25	LARAVDPAVASAICAK	216	0.69	
26	LPGESAGLVPPIDQWS	475	0.68	
26	KLQSDETFVYLARAVD	206	0.68	
27	DRLAFTIEARALTFQP	144	0.67	
28	DVYWITFAGIATADNP	609	0.66	
29	GSTVVLTLDNDIQFYV	307	0.65	
30	PRPDDIRVVSAQTAQT	543	0.63	
30	DEVLQVPGSIQMGGVT	405	0.63	
31	DNDIQFYVQQVQQAQK	315	0.60	
32	EARALTFQPKRIRRQL	151	0.59	
33	NNKPDAAAVLKKLQSD	195	0.51	

OVERLAP DISPLAY

VSRAAPRRASQSQSTRPARGLRPPGAQEVGQQRKRPKGTQKARQAQEATKSRPATRSDVAPAGRSTRARRTRQVVDVGTREGAS
FVFRHRTGNAVILVLMLVAATQLFFLQVSHAAGLRAQAAGQLKVTDVQPAARGSIVDRNNDRLAFTIEARALTFQPKRIRRQL
EEARKKTSAAPDPQQRLRDIAQEVAAGKLNNKPDAAAVLKKLQSDETFVYLARAVDPAVASAICAKYPEVGAERQDLRQYPGGS
LAANVVGIDWDGHGLLGLEDSLDAVLGTDGVSVDYDRGSDGVVIPGSYRNRHKAVHGSTVVLTLDNDIQFYVQQVQQAQNL
SGAHNVSAVVLDAKTGEVLAMANDNTFDPSQDIGRQGDQKQGNPAVSSPFEPGSVNVKIVAASAVIEHGLSSPDEVLQVPGSIQ
MGGVTVHDAWEHGVMPTTTGVFGKSSNVGTLMLSQRVGPERRYDMLRKFGLGQRTGVGLPGESAGLVPPIDQWSGSTFANLP
IGQGLSMTLLQMTGMYQAIANDGVRVPPRIKATVAPDGSRTTEPRPDDIRVVSAQTAQTVRQMLRAVVQRDPMGYQQGTGPT

AGVPGYQMAGKTGTAQQINPGCGCYFDDVYWITFAGIATADNPRYVIGIMLDNPARNSDGAPGHSAAPLFHNIAGWLMQRENV
PLSPDPGPPPLVLQAT⁶⁷⁹

PGSIQMGVTVHDAWE

VGGIDWDGHGLLGLED

GVVIPGSYRNRHKAVH

PGAQEVGQRKRPGKTQ

SQSQSTRPARGLRPP

PRIKATVAPDGS RTE

GVTVHDAWEHGVMPYT

AVVQRDPMGYQQGTGP

SDVAPAGRSTRARRTR

DPSQDIGRQGDQKQLGN

AICAKYPEVGAERQDL

YQQGTGPTAGVPGYQM

VSSPFEPGSVNKIVAA

VGTRGASFVFRHRTGN

DGVRVPPRI IKATVAP

QRTGVGLPGESAGLVP

PGHSAAPLFHNIAGWL

QQVQQAKNLSGAHNVS

PKRIRRQLEEARKKTS

MQRENVPLSPDPGPPL-----

RYVIGIMLDNPARNSD-----

ERYYDMLRKFGGLGQRT-----

AERQDLRQYPGGSLAA-----

VVSAQTAQTVRQMLRA-----

GRQGDKQLGNPAVSSP-----

CGCYFDDVYWITFAGI

GQRKRPGKTQKARQAQ

LFHNIAGWLMQRENVF

AQTVRQMLRAVVQRDP

RGSIVDRNNDRLAFTI

TDVQPAARGSI VDRNN

GAHNVSAVVLDAKTGE

PGGSLAANVVGIDWD

TSAAPDPQQRLDIAQ

RRTRQVVDVGTRGASF

QEATKSRPATRSDVAP

RHKAVHGSTVVLTLDN

RGLRRPPGAQEVGQRK

GRSTRARRTRQVVDVG

LDAKTGEVLAMANDNT

LRDIAQEVAGKLNKPL

AGIATADNPRYVIGIM

ASAVIEHGLSSPDEVL

EVAGKLNKPDAAAVL

VPPIDQWSGSTFANLP

VLAMANDNTFDPSQDI

GVFGKSSNVGTLMLSQ

LRAQAAGQLKVTDVQP

TQKARQAQEATKSRPA

DGHGLLGLEDSLDAVL

SGSTFANLPIGQLSM

VGTLMLSQRVGPERRY

LARAVIDPAVASAICAK

LPGESAGLVPPIDQWS

KLQSDETFVYLARAVID

DRLAFTTEARALTFQP

DVYWITFAGIATADNP

GSTVVLTLDNNDIQFYV

PRPDDIRVVSAQTAQT

DEVLQVPGSIQMGGVT

DNDIQFYVQQQVQQAQK

EARALTFQPKRIRRQL

NNKPDAAAVLKKLQSD