ABCpred Prediction Server

Sequence name	
Length of the sequence	247
Number of 16mers from the input sequence	232
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	ASVKDGRNAGGAGANP	218	0.96	
2	GMYPEGTRSPDGRLYK	115	0.89	
3	YVDIYAASVKDGRNAG	212	0.88	
4	KGWINRWFYSVSGQVP	73	0.87	
5	LRFGRVTVRFGKPMDF	165	0.86	
6	RFEGLAGNHFIERAVT	182	0.85	
6	TGLARLALHTGVPVIP	133	0.85	
7	GRPKVEGLEYIPSSGP	19	0.84	
7	FGKPMDFSRFEGLAGN	174	0.84	
8	FKYIFMGPLFTLLGRP	6	0.82	
8	PSSGPAILASNHLAVA	30	0.82	

9	SVSGQVPIDRTNADSA	82	0.81	
10	GGAGANPNSTDAARIP	227	0.80	
10	VAMIGTNVVNPPGRKM	149	0.80	
11	DGRLYKGKTGLARLAL	125	0.76	
12	AKSEYFTGTGLKGWIN	62	0.74	
13	IDRTNADSAQGALQTA	89	0.73	
13	TGVPVIPVAMIGTNVV	142	0.73	
14	DSAQGALQTAVVLLGQ	95	0.69	
14	HFIERAVTDEVIYELM	190	0.69	
15	GLSGQEYVDIYAASVK	206	0.68	
15	VIYELMGLSGQEYVDI	200	0.68	
16	ADSFYLPLVVRRRIWF	45	0.61	
16	TAVVLLGQGKLLGMYP	103	0.61	
17	VVRRRIWFLAKSEYFT	53	0.59	

OVERLAP DISPLAY

```
MWYYLFKYIFMGPLFTLLGRPKVEGLEYIPSSGPAILASNHLAVADSFYLPLVVRRRIWFLAKSEYFTGTGLKGWINRWFYSV
SGQVPIDRTNADSAQGALQTAVVLLGQGKLLGMYPEGTRSPDGRLYKGKTGLARLALHTGVPVIPVAMIGTNVVNPPGRKMLR
FGRVTVRFGKPMDFSRFEGLAGNHFIERAVTDEVIYELMGLSGQEYVDIYAASVKDGRNAGGAGANPNSTDAARIPETAAG$^{24}$
$^{7}$
------------------------------------------------------------------------------------
------------------------------------------------------------------------------------
------------------------------------------------------ASVKDGRNAGGAGANP--------------
------------------------------------------------------------------------------------
------------------------------
GMYPEGTRSPDGRLYK--------------------------------------------------------------------
--------------------------------------------------
------------------------------------------------------------------------------------
------------------------------------------------------------------------------------
---------------------------------------------------YVDIYAASVKDGRNAG------------------
------------------------------------------------------------------------------------
KGWINRWFYSVSGQVP--------------------------------------------------------------------
------------------------------------------------------------------------------------
---------
------------------------------------------------------------------------------------
------------------------------------------------------------------------------------
LRFGRVTVRFGKPMDF--------------------------------------------------------------------
------------------------------------------------------------------------------------
------------------------------------------------------------------------------------
---------------RFEGLAGNHFIERAVT-----------------------------------------------------
```

```
------------------------------------------------------------------------
-----------------------------------------------
TGLARLALHTGVPVIP--------------------------------------------------------
-------------------------------
------------------
GRPKVEGLEYIPSSGP--------------------------------------------------------
------------------------------------------------------------------------
----------------------------------------------------------------
------------------------------------------------------------------------
------------------------------------------------------------------------
-------FGKPMDFSRFEGLAGN-------------------------------------------------
-----
FKYIFMGPLFTLLGRP--------------------------------------------------------
------------------------------------------------------------------------
-----------------------------------------------------------------------
----------------------------
PSSGPAILASNHLAVA--------------------------------------------------------
------------------------------------------------------------------------
---------------------------------------------------
------------------------------------------------------------------------
SVSGQVPIDRTNADSA--------------------------------------------------------
------------------------------------------------------------------------
------------------------------------------------------------------------
------------------------------------------------------------------------
----------------------------------------------------GGAGANPNSTDAARIP-----
------------------------------------------------------------------------
-------------------------------------------------------
VAMIGTNVVNPPGRKM--------------------------------------------------------
----------------
------------------------------------------------------------------------
-------------------------------------------
DGRLYKGKTGLARLAL--------------------------------------------------------
-----------------------------------------
------------------------------------------------------------
AKSEYFTGTGLKGWIN--------------------------------------------------------
------------------------------------------------------------------------
--------------------
------------------------------------------------------------------------
-----
IDRTNADSAQGALQTA--------------------------------------------------------
------------------------------------------------------------------------
-----------------------------------------------------------
TGVPVIPVAMIGTNVV--------------------------------------------------------
-----------------------
------------------------------------------------------------------------
------------
DSAQGALQTAVVLLGQ--------------------------------------------------------
--------------------------------------------------------------
------------------------------------------------------------------------
------------------------------------------------------------------------
--------------------HFIERAVTDEVIYELM------------------------------------
------------------------------------------------------------------------
------------------------------------------------------------------------
------------------------------GLSGQEYVDIYAASVK--------------------------
------------------------------------------------------------------------
------------------------------------------------------------------------
-------------------------------VIYELMGLSGQEYVDI-------------------------
--------------------------------------------
```

```
ADSFYLPLVVRRRIWF-------------------------------------------------------------
-----------------------------------------------------------------------------
----------------------------------
-----------------------------------------------------------------------------
-------------------
TAVVLLGQGKLLGMYP-------------------------------------------------------------
-------------------------------------------------------------
---------------------------------------------------
VVRRRIWFLAKSEYFT-------------------------------------------------------------
-----------------------------------------------------------------------------
----------------------------
```