

BcePred Prediction Server

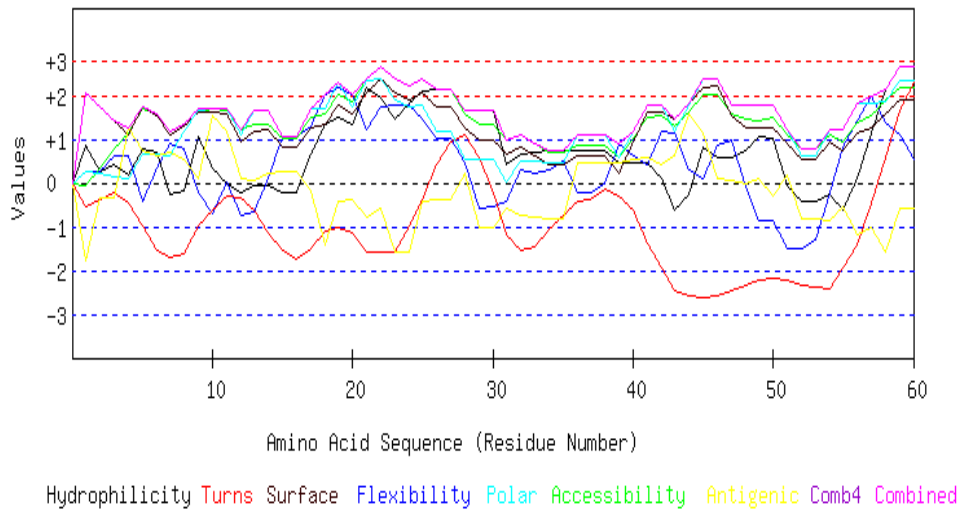
The server displays 1.[GRAPHICAL RESULT](#) 2.[TABULAR RESULT](#) 3.[Overlap Display](#)

seqname=
Seq=VQQSLAVKTFEDLFAELGDRARTRPADSTTVAALDGGVHALGKKLLEEAGEVWLAAEHESNDALAEESQLL
YWTQVLMISRGLSLDDVYRKL

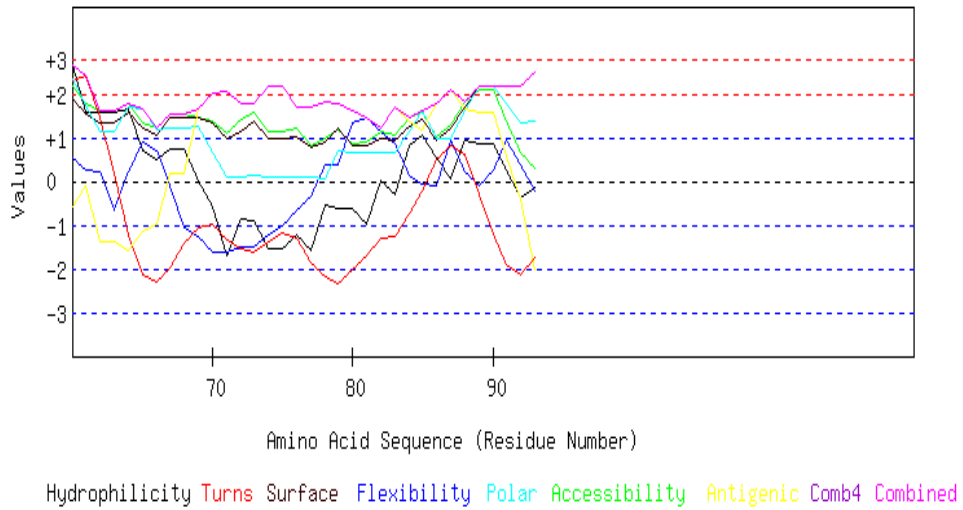
Length=93

GRAPHICAL RESULT

GRAPHICAL RESULT ;; SEQ 1 to 60



GRAPHICAL RESULT :: SEQ 61 to 120



[TOP](#)

TABULAR RESULT

Selected Programs: hydro flexi access turns surface polar antipro

Respective Threshold: 1.9 2 1.9 2.4 2.3 1.8 1.9

**VQQSLAVKTFEDLFAELGDRARTRPADSTTVAALDGGVHALGKKLLEEAGEVWLAAEHES
NDALAEIISQLLYWTQVLMISRGLSLDDVYRKL**

Length=93

A.A.	Parameter										Combined
	Hydro	Flexi	Access	Turns	Surface	Polar	AntiPro	MAX	MIN	AVG	
1 V	0.857	0.263	-0.046	-0.559	2.050	0.256	-1.773	2.050	-1.773	0.150	
2 Q	0.275	0.263	0.328	-0.393	1.741	0.202	-0.328	1.741	-0.393	0.298	
3 Q	0.408	0.604	0.786	-0.212	1.422	0.142	-0.328	1.422	-0.328	0.403	
4 S	0.174	0.604	1.122	-0.441	1.093	0.083	1.271	1.271	-0.441	0.558	
5 L	0.768	-0.426	1.692	-0.965	1.741	0.676	0.747	1.741	-0.965	0.605	
6 A	0.718	0.353	1.561	-1.534	1.522	0.654	0.624	1.561	-1.534	0.557	
7 V	-0.243	0.892	1.169	-1.697	1.103	0.616	0.712	1.169	-1.697	0.364	
8 K	-0.161	0.784	1.346	-1.605	1.312	1.195	0.526	1.346	-1.605	0.485	
9 T	1.053	-0.222	1.702	-0.993	1.622	1.679	0.082	1.702	-0.993	0.703	
10 F	0.338	-0.713	1.617	-0.629	1.631	1.684	1.527	1.684	-0.713	0.779	
11 E	-0.009	0.037	1.674	-0.305	1.595	1.687	1.190	1.687	-0.305	0.838	
12 D	-0.237	-0.743	1.225	-0.331	0.957	1.092	0.114	1.225	-0.743	0.297	
13 L	-0.073	-0.655	1.356	-0.604	1.166	1.672	0.047	1.672	-0.655	0.416	
14 F	-0.073	0.089	1.337	-1.149	1.221	1.673	0.231	1.673	-1.149	0.476	
15 A	-0.205	1.076	1.001	-1.554	0.811	1.073	0.258	1.076	-1.554	0.351	
16 E	-0.205	1.076	1.001	-1.731	0.811	1.073	0.258	1.076	-1.731	0.326	
17 L	0.642	1.315	1.515	-1.486	1.276	1.693	-0.178	1.693	-1.486	0.682	
18 G	1.356	2.010	1.580	-1.116	1.321	1.688	-1.439	2.010	-1.439	0.772	
19 D	1.489	2.196	2.010	-1.005	1.795	2.313	-0.430	2.313	-1.005	1.195	
20 R	1.325	2.016	1.879	-1.137	1.586	1.733	-0.363	2.016	-1.137	1.006	
21 A	2.172	1.203	2.393	-1.561	2.050	2.353	-0.799	2.393	-1.561	1.116	
22 R	1.944	1.742	2.646	-1.575	2.369	2.372	-0.579	2.646	-1.575	1.274	
23 T	1.445	1.784	2.374	-1.576	2.050	1.883	-1.580	2.374	-1.580	0.911	
24 R	1.812	1.784	2.216	-0.979	1.895	1.747	-1.588	2.216	-1.588	0.984	
25 P	2.090	1.461	2.365	-0.376	2.050	1.767	-0.418	2.365	-0.418	1.277	
26 A	2.153	1.006	2.132	0.407	1.731	1.162	-0.377	2.153	-0.377	1.174	
27 D	2.153	1.006	2.132	0.940	1.731	1.162	-0.377	2.153	-0.377	1.250	
28 S	1.653	0.467	1.580	1.114	1.248	0.539	0.213	1.653	0.213	0.974	
29 T	1.653	-0.593	1.337	0.577	0.975	0.520	-1.017	1.653	-1.017	0.493	
30 T	1.653	-0.544	1.337	-0.218	0.975	0.520	-1.017	1.653	-1.017	0.387	
31 V	0.440	-0.408	0.982	-1.160	0.665	0.037	-0.573	0.982	-1.160	-0.003	
32 A	0.661	0.315	1.103	-1.522	0.829	0.506	-0.742	1.103	-1.522	0.164	
33 A	0.692	0.219	0.898	-1.455	0.629	0.486	-0.783	0.898	-1.455	0.098	
34 L	0.724	0.309	0.692	-1.044	0.428	0.466	-0.823	0.724	-1.044	0.107	
35 D	0.724	0.513	0.692	-0.759	0.428	0.466	-0.823	0.724	-0.823	0.177	
36 G	0.724	-0.230	0.851	-0.419	0.601	1.086	0.454	1.086	-0.419	0.438	
37 G	0.724	-0.230	0.851	-0.380	0.601	1.086	0.454	1.086	-0.380	0.444	
38 V	0.724	-0.026	0.851	-0.149	0.601	1.086	0.454	1.086	-0.149	0.506	
39 H	0.452	0.902	0.571	-0.287	0.237	0.597	0.464	0.902	-0.287	0.419	
40 A	0.452	0.608	1.029	-0.636	0.920	1.191	0.528	1.191	-0.636	0.585	
41 L	0.452	0.403	1.487	-1.366	1.604	1.786	0.593	1.786	-1.366	0.708	
42 G	0.104	1.183	1.524	-1.945	1.622	1.790	0.439	1.790	-1.945	0.674	
43 K	-0.610	1.131	1.281	-2.467	1.458	1.175	0.607	1.458	-2.467	0.368	
44 K	-0.250	0.299	1.608	-2.573	1.823	1.775	1.591	1.823	-2.573	0.610	
45 L	0.825	0.095	2.019	-2.603	2.178	2.369	1.130	2.369	-2.603	0.859	
46 L	0.598	0.874	2.029	-2.586	2.224	2.369	0.119	2.369	-2.586	0.804	
47 E	0.598	0.982	1.571	-2.459	1.540	1.774	0.054	1.774	-2.459	0.580	
48 E	0.730	-0.096	1.449	-2.332	1.267	1.779	-0.037	1.779	-2.332	0.394	
49 A	1.078	-0.875	1.412	-2.213	1.248	1.776	0.117	1.776	-2.213	0.363	
50 G	1.028	-0.875	1.515	-2.177	1.257	1.795	-0.296	1.795	-2.177	0.321	
51 E	-0.047	-1.502	1.103	-2.229	0.902	1.201	0.165	1.201	-2.229	-0.058	
52 V	-0.408	-1.502	0.776	-2.322	0.537	0.602	-0.818	0.776	-2.322	-0.448	

53 W	-0.408	-1.316	0.776	-2.387	0.537	0.602	-0.818	0.776	-2.387	-0.431
54 L	-0.275	-0.238	1.113	-2.412	0.948	1.201	-0.845	1.201	-2.412	-0.073
55 A	-0.635	0.822	0.945	-1.945	0.756	1.221	-0.551	1.221	-1.945	0.088
56 A	0.092	1.431	1.393	-1.413	1.130	1.819	-1.166	1.819	-1.413	0.469
57 E	1.135	1.970	1.524	-0.455	1.267	1.814	-1.029	1.970	-1.029	0.889
58 H	2.159	1.395	1.907	0.596	1.567	1.850	-1.577	2.159	-1.577	1.128
59 E	2.659	1.101	2.178	1.655	1.886	2.338	-0.576	2.659	-0.576	1.606
60 S	2.659	0.525	2.178	2.293	1.886	2.338	-0.576	2.659	-0.576	1.615
61 N	1.584	0.245	1.767	2.415	1.531	1.744	-0.114	2.415	-0.114	1.310
62 D	1.584	0.211	1.608	1.460	1.358	1.124	-1.392	1.608	-1.392	0.850
63 A	1.584	-0.653	1.608	0.163	1.358	1.124	-1.392	1.608	-1.392	0.542
64 L	1.666	0.203	1.786	-1.202	1.567	1.704	-1.578	1.786	-1.578	0.592
65 A	0.718	0.898	1.346	-2.154	1.239	1.665	-1.143	1.665	-2.154	0.367
66 E	0.496	0.694	1.225	-2.293	1.075	1.196	-0.975	1.225	-2.293	0.203
67 E	0.743	-0.086	1.552	-1.975	1.449	1.239	0.199	1.552	-1.975	0.446
68 I	0.743	-1.067	1.552	-1.436	1.449	1.239	0.199	1.552	-1.436	0.383
69 S	0.029	-1.246	1.468	-1.058	1.458	1.244	1.644	1.644	-1.246	0.506
70 Q	-0.585	-1.610	1.393	-0.982	1.330	0.664	2.002	2.002	-1.610	0.316
71 L	-1.710	-1.610	1.085	-1.353	0.984	0.089	2.051	2.051	-1.710	-0.066
72 L	-0.876	-1.502	1.421	-1.553	1.157	0.108	1.770	1.770	-1.553	0.075
73 Y	-0.907	-1.502	1.599	-1.620	1.376	0.130	1.773	1.773	-1.620	0.121
74 W	-1.520	-1.210	1.150	-1.366	0.993	0.089	2.199	2.199	-1.520	0.048
75 T	-1.520	-1.031	1.150	-1.168	0.993	0.089	2.199	2.199	-1.520	0.102
76 Q	-1.204	-0.667	1.225	-1.318	1.030	0.101	1.709	1.709	-1.318	0.125
77 V	-1.590	-0.344	0.832	-1.871	0.774	0.083	1.698	1.698	-1.871	-0.060
78 L	-0.547	0.379	0.963	-2.181	0.911	0.078	1.836	1.836	-2.181	0.206
79 M	-0.610	0.379	1.197	-2.348	1.230	0.683	1.794	1.794	-2.348	0.332
80 I	-0.629	1.349	0.860	-2.015	0.811	0.641	1.631	1.631	-2.015	0.378
81 S	-0.977	1.469	0.898	-1.690	0.829	0.644	1.477	1.477	-1.690	0.379
82 R	0.016	1.153	1.132	-1.320	0.975	0.659	1.202	1.202	-1.320	0.545
83 G	-0.300	0.878	1.057	-1.256	0.938	0.647	1.693	1.693	-1.256	0.522
84 L	0.838	0.155	1.468	-0.751	1.276	1.134	1.362	1.468	-0.751	0.783
85 S	1.059	-0.048	1.589	-0.213	1.440	1.603	1.193	1.603	-0.213	0.946
86 L	0.560	-0.090	1.038	0.507	0.957	0.980	1.783	1.783	-0.090	0.819
87 D	0.079	0.946	1.300	0.826	1.239	0.999	2.114	2.114	0.079	1.072
88 D	0.926	0.203	1.814	0.602	1.704	1.619	1.679	1.814	0.203	1.221
89 V	0.876	-0.082	2.113	-0.286	2.187	2.193	1.584	2.193	-0.286	1.226
90 Y	0.876	0.269	2.113	-1.205	2.187	2.193	1.584	2.193	-1.205	1.145
91 R	0.244	0.930	1.384	-1.915	2.187	1.764	0.583	2.187	-1.915	0.740
92 K	-0.389	0.371	0.655	-2.132	2.187	1.336	-0.418	2.187	-2.132	0.230
93 L	-0.155	-0.206	0.318	-1.754	2.515	1.394	-2.017	2.515	-2.017	0.014

[TOP](#)

Overlap Display

Selected Programs: hydro flexi access turns surface polar antipro

Respective Threshold: 1.9 2 1.9 2.4 2.3 1.8 1.9

The predicted B-cell epitopes are shown in blue colour and underlined.

Sequence	<u>1VQQSLAVKTFEDLFAELGDRARTRPADSTTVAALDGGVHALGKKLLEEAGEVWLAAEHESNDALAE</u> <u>ISQLLYWTQVLMISRGLSLDDVYRKL</u> ⁹³
Hydrophilicity	1VQQSLAVKTFEDLFAEL <u>GDRARTRPADSTT</u> VAALDGGVHALGKKLLEEAGEVWL <u>AAEHESNDA</u> LAE ISQLLYWTQVLMISRGLSLDDVYRKL ⁹³
Flexibility	1VQQSLAVKTFEDLFA <u>ELGDRART</u> RPADSTTVAALDGGVHALGKKLLEEAGEVWLAAEHESNDALAE ISQLLYWTQVLMISRGLSLDDVYRKL ⁹³
Accessibility	1VQQSLAVKTFEDLFA <u>ELGDRARTRPADSTT</u> VAALDGGVHAL <u>GKKLLEE</u> AGEVWL <u>AAEHESNDA</u> LAE ISQLLYWTQVLMISRGLS <u>LDDVYRKL</u> ⁹³
Turns	1VQQSLAVKTFEDLFAELGDRARTRPADSTTVAALDGGVHALGKKLLEEAGEVWLAAE <u>HESNDAL</u> LAE ISQLLYWTQVLMISRGLSLDDVYRKL ⁹³
Exposed Surface	1VQQSLAVKTFEDLFAELG <u>DRARTRP</u> ADSTTVAALDGGVHALGKKLLEEAGEVWLAAEHESNDALAE ISQLLYWTQVLMISRGLSLDDV <u>YRKL</u> ⁹³
Polarity	1VQQSLAVKTFEDLFA <u>ELGDRARTRP</u> ADSTTVAALDGGVHAL <u>GKKLLEE</u> AGEV <u>WLAAEHESNDA</u> LAE ISQLLYWTQVLMISRGLS <u>LDDVYRKL</u> ⁹³
Antigenic Propensity	1VQQSLAVKTFEDLFAELGDRARTRPADSTTVAALDGGVHALGKKLLEEAGEVWLAAEHESNDALAE <u>ISQLLYWTQVL</u> MISRGL <u>SLDDVY</u> RKL ⁹³

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