

BcePred Prediction Server

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

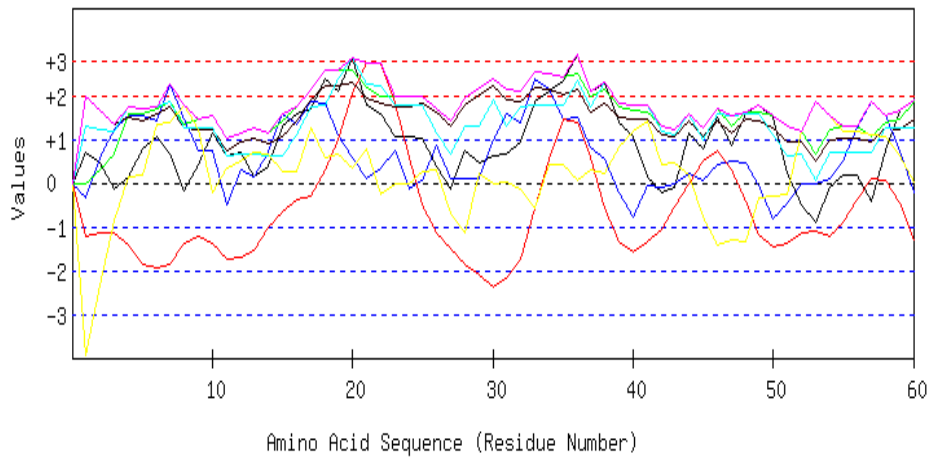
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EPKKVKPPRTHWDMLLERRSIEELEELLKERLELIRSRRRG

Length=111

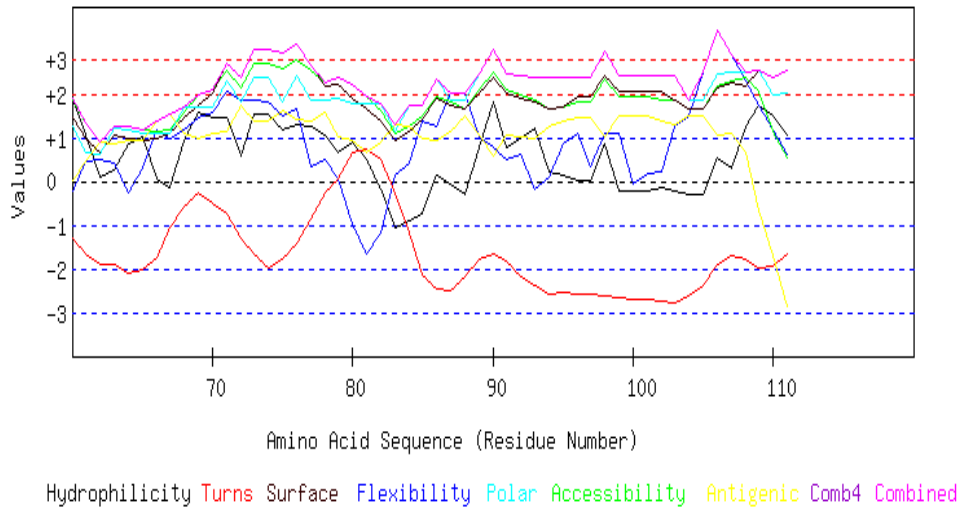
GRAPHICAL RESULT

GRAPHICAL RESULT :: SEQ 1 to 60



Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

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

**MADRVLRGSR LGAVSYETDRNHDLAPRQIARYRTDNGEEFEVFPADDAEIPGTWLCRNGM
EGTLIEGDLPEPKKVKPPRTHWDMLLERRSIEELEELLKERLELIRSRRRG**

Length=111

A.A.	Parameter										Combined
	Hydro	Flexi	Access	Turns	Surface	Polar	AntiPro	MAX	MIN	AVG	
1 M	0.686	-0.336	-0.037	-1.231	1.996	1.281	-3.924	1.996	-3.924	-0.224	
2 A	0.452	0.592	0.300	-1.127	1.668	1.222	-2.325	1.668	-2.325	0.112	
3 D	-0.129	1.219	0.674	-1.128	1.358	1.168	-0.880	1.358	-1.128	0.326	
4 R	0.136	1.535	1.561	-1.415	1.513	1.732	0.130	1.732	-1.415	0.742	
5 V	0.762	1.535	1.561	-1.856	1.422	1.715	0.185	1.715	-1.856	0.761	
6 L	1.040	1.427	1.711	-1.931	1.576	1.735	1.355	1.735	-1.931	0.988	
7 R	0.673	2.259	1.870	-1.863	1.731	1.871	1.363	2.259	-1.863	1.129	
8 G	-0.174	1.445	1.356	-1.382	1.267	1.252	1.799	1.799	-1.382	0.795	
9 S	0.421	0.722	1.468	-1.207	1.230	1.250	1.210	1.468	-1.207	0.728	
10 R	1.135	0.722	1.552	-1.368	1.221	1.245	-0.235	1.552	-1.368	0.610	
11 L	0.636	-0.498	1.001	-1.730	0.738	0.622	0.355	1.001	-1.730	0.160	
12 G	0.686	0.281	1.160	-1.715	0.938	0.642	0.514	1.160	-1.715	0.358	
13 A	0.155	0.145	1.262	-1.529	1.020	0.641	0.687	1.262	-1.529	0.340	
14 V	0.383	0.684	1.160	-1.021	0.911	0.616	0.661	1.160	-1.021	0.485	
15 S	1.293	1.593	1.440	-0.655	1.057	0.630	0.267	1.593	-0.655	0.804	
16 Y	1.565	1.347	1.720	-0.362	1.422	1.119	0.258	1.720	-0.362	1.010	
17 E	1.698	1.844	2.150	-0.295	1.895	1.744	1.267	2.150	-0.295	1.472	
18 T	2.374	1.808	2.571	0.283	2.214	1.783	0.565	2.571	0.283	1.657	
19 D	2.096	1.113	2.580	0.981	2.233	2.383	0.673	2.580	0.673	1.723	
20 R	2.848	0.574	2.599	2.072	2.315	2.852	0.332	2.852	0.332	1.942	
21 N	1.774	0.119	2.188	2.756	1.959	2.258	0.793	2.756	0.119	1.692	
22 H	1.578	0.323	1.991	2.750	1.804	2.238	-0.258	2.750	-0.258	1.490	
23 D	1.078	0.724	1.963	1.814	1.759	1.768	-0.029	1.963	-0.029	1.297	
24 L	1.078	-0.140	1.963	0.598	1.759	1.768	-0.029	1.963	-0.140	1.000	
25 A	1.015	0.065	1.991	-0.497	1.823	1.770	0.247	1.991	-0.497	0.916	
26 P	0.376	0.878	1.692	-1.154	1.631	1.152	0.302	1.692	-1.154	0.697	
27 R	-0.123	0.113	1.421	-1.488	1.312	0.663	-0.699	1.421	-1.488	0.171	
28 Q	0.724	0.113	1.935	-1.842	1.777	1.282	-1.135	1.935	-1.842	0.408	
29 I	0.471	0.113	2.188	-2.098	2.014	1.302	0.207	2.188	-2.098	0.599	
30 A	0.604	0.976	2.374	-2.388	2.214	1.907	-0.014	2.374	-2.388	0.811	
31 R	0.667	1.585	2.141	-2.179	1.895	1.303	0.028	2.141	-2.179	0.777	
32 Y	0.920	1.399	2.085	-1.726	1.841	1.749	-0.144	2.085	-1.726	0.875	
33 R	1.868	2.381	2.524	-0.582	2.169	1.788	-0.579	2.524	-0.582	1.367	
34 T	2.096	2.142	2.515	0.558	2.123	1.788	0.431	2.515	0.431	1.665	
35 D	2.324	1.477	2.412	1.473	2.014	1.763	0.406	2.412	0.406	1.696	
36 N	2.937	1.513	2.487	1.367	2.142	2.343	0.047	2.937	0.047	1.834	
37 G	2.090	0.808	1.991	0.581	1.622	1.723	0.299	2.090	0.299	1.302	
38 E	2.254	0.540	2.122	-0.591	1.832	2.302	0.232	2.302	-0.591	1.242	
39 E	1.388	-0.210	1.730	-1.337	1.504	1.815	0.830	1.815	-1.337	0.817	
40 F	1.078	-0.785	1.674	-1.589	1.467	1.793	1.163	1.793	-1.589	0.686	
41 E	0.136	-0.072	1.617	-1.330	1.467	1.797	1.414	1.797	-1.330	0.719	
42 V	-0.224	-0.108	1.290	-1.054	1.103	1.198	0.430	1.290	-1.054	0.376	
43 P	-0.085	-0.011	1.234	-0.553	1.057	1.087	0.447	1.234	-0.553	0.454	
44 F	1.129	0.205	1.571	-0.017	1.422	1.572	0.187	1.572	-0.017	0.867	
45 A	0.768	0.055	1.244	0.495	1.057	0.972	-0.797	1.244	-0.797	0.542	
46 D	1.495	0.413	1.692	0.743	1.431	1.570	-1.412	1.692	-1.412	0.848	
47 D	0.857	0.501	1.309	0.310	1.139	1.553	-1.310	1.553	-1.310	0.623	
48 A	1.571	0.453	1.617	-0.434	1.458	1.568	-1.341	1.617	-1.341	0.699	
49 E	1.799	-0.050	1.608	-1.193	1.412	1.568	-0.331	1.799	-1.193	0.688	
50 I	1.495	-0.829	1.533	-1.451	1.248	1.099	-0.281	1.533	-1.451	0.402	
51 P	0.231	-0.468	1.281	-1.382	0.948	0.635	-0.250	1.281	-1.382	0.142	
52 G	-0.484	-0.013	1.197	-1.147	0.957	0.641	1.195	1.197	-1.147	0.335	

53 T	-0.888	-0.032	0.655	-1.111	0.501	0.059	1.844	1.844	-1.111	0.147
54 W	-0.117	0.105	1.225	-1.219	0.993	0.682	1.521	1.521	-1.219	0.456
55 L	0.193	0.493	1.281	-0.907	1.030	0.703	1.188	1.281	-0.907	0.569
56 C	0.193	1.273	1.281	-0.400	1.030	0.703	1.188	1.281	-0.400	0.753
57 R	-0.401	1.864	1.075	0.094	0.920	0.701	1.093	1.864	-0.401	0.764
58 N	0.724	1.541	1.384	0.065	1.267	1.275	1.044	1.541	0.065	1.043
59 G	1.666	0.728	1.459	-0.468	1.212	1.270	0.609	1.666	-0.468	0.925
60 M	1.906	-0.224	1.870	-1.295	1.458	1.272	0.028	1.906	-1.295	0.716
61 E	1.059	0.465	1.356	-1.642	0.993	0.653	0.464	1.356	-1.642	0.478
62 G	0.111	0.517	0.917	-1.898	0.665	0.614	0.898	0.917	-1.898	0.261
63 T	0.244	0.429	1.253	-1.908	1.075	1.213	0.872	1.253	-1.908	0.454
64 L	0.869	-0.266	1.253	-2.082	0.984	1.196	0.927	1.253	-2.082	0.412
65 I	1.009	0.297	1.197	-2.038	0.938	1.085	0.945	1.197	-2.038	0.490
66 E	0.067	1.197	1.122	-1.753	0.993	1.091	1.379	1.379	-1.753	0.585
67 G	-0.129	0.980	1.169	-1.049	1.112	1.090	1.558	1.558	-1.049	0.676
68 D	0.945	1.185	1.580	-0.569	1.467	1.684	1.097	1.684	-0.569	1.056
69 L	1.584	1.477	1.963	-0.262	1.759	1.701	0.995	1.963	-0.262	1.317
70 P	1.451	1.585	2.085	-0.489	2.032	1.696	1.087	2.085	-0.489	1.350
71 E	1.451	2.058	2.543	-0.744	2.716	2.291	1.151	2.716	-0.744	1.638
72 P	0.585	1.842	2.150	-1.281	2.388	1.804	1.749	2.388	-1.281	1.320
73 K	1.527	1.842	2.683	-1.660	3.017	2.393	1.379	3.017	-1.660	1.597
74 K	1.527	1.824	2.683	-1.972	3.017	2.393	1.379	3.017	-1.972	1.550
75 V	1.167	1.483	2.599	-1.762	2.925	1.812	1.625	2.925	-1.762	1.407
76 K	1.299	1.670	2.786	-1.411	3.126	2.418	1.405	3.126	-1.411	1.613
77 P	1.268	0.335	2.533	-0.841	2.643	1.843	1.380	2.643	-0.841	1.309
78 P	1.040	0.515	2.244	-0.246	2.178	1.868	1.583	2.244	-0.246	1.312
79 R	0.642	0.043	2.384	0.069	2.205	1.892	1.016	2.384	0.043	1.179
80 T	0.914	-0.975	2.206	0.652	1.886	1.786	0.942	2.206	-0.975	1.059
81 H	0.515	-1.670	1.954	0.745	1.658	1.785	0.667	1.954	-1.670	0.808
82 W	-0.199	-1.186	1.627	0.503	1.394	1.771	0.882	1.771	-1.186	0.685
83 D	-1.046	0.131	1.113	-0.277	0.929	1.152	1.318	1.318	-1.046	0.474
84 M	-0.882	0.405	1.244	-1.197	1.139	1.731	1.251	1.731	-1.197	0.527
85 L	-0.749	1.375	1.515	-2.142	1.440	1.736	0.983	1.736	-2.142	0.594
86 L	0.149	1.255	1.926	-2.470	1.895	2.336	0.960	2.336	-2.470	0.864
87 E	-0.073	2.034	1.804	-2.481	1.731	1.867	1.128	2.034	-2.481	0.859
88 R	-0.313	2.034	1.674	-2.182	1.668	1.851	1.505	2.034	-2.182	0.891
89 R	0.762	1.016	2.085	-1.800	2.023	2.446	1.044	2.446	-1.800	1.082
90 S	1.837	0.778	2.496	-1.679	2.379	3.040	0.583	3.040	-1.679	1.348
91 I	0.762	0.497	2.085	-1.824	2.023	2.446	1.044	2.446	-1.824	1.005
92 E	0.990	0.618	1.982	-2.177	1.914	2.420	1.019	2.420	-2.177	0.966
93 E	1.217	-0.162	1.879	-2.382	1.804	2.395	0.993	2.395	-2.382	0.821
94 L	0.225	0.095	1.646	-2.589	1.658	2.381	1.268	2.381	-2.589	0.669
95 E	0.149	0.874	1.702	-2.531	1.686	2.384	1.382	2.384	-2.531	0.806
96 E	0.016	1.113	1.823	-2.562	1.959	2.379	1.473	2.379	-2.562	0.886
97 L	0.016	0.333	1.823	-2.594	1.959	2.379	1.473	2.379	-2.594	0.770
98 L	0.863	1.113	2.337	-2.639	2.424	2.999	1.037	2.999	-2.639	1.162
99 K	-0.212	1.113	1.926	-2.671	2.069	2.404	1.498	2.404	-2.671	0.875
100E	-0.212	-0.044	1.926	-2.688	2.069	2.404	1.498	2.404	-2.688	0.708
101R	-0.212	0.195	1.926	-2.682	2.069	2.404	1.498	2.404	-2.682	0.743
102L	-0.136	0.237	1.870	-2.728	2.041	2.401	1.385	2.401	-2.728	0.724
103E	-0.231	1.255	1.851	-2.796	1.877	2.431	1.319	2.431	-2.796	0.815
104L	-0.313	1.493	1.674	-2.625	1.668	1.851	1.505	1.851	-2.625	0.750
105I	-0.313	2.511	1.674	-2.360	1.668	1.851	1.505	2.511	-2.360	0.934
106R	0.534	3.463	2.188	-1.917	2.132	2.471	1.069	3.463	-1.917	1.420
107S	0.307	2.904	2.290	-1.706	2.242	2.496	1.095	2.904	-1.706	1.375
108R	1.249	2.303	2.365	-1.777	2.187	2.490	0.660	2.490	-1.777	1.354
109R	1.755	1.744	2.047	-1.992	2.524	2.549	-0.672	2.549	-1.992	1.136
110R	1.489	1.185	1.160	-1.930	2.369	1.984	-1.681	2.369	-1.930	0.654
111G	1.078	0.626	0.552	-1.652	2.533	2.024	-2.851	2.533	-2.851	0.330

[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>1MADRVLRGSRLGAVSYETDRNHDLAPRQIARYRTDNGEEFEVPFADDAEIPGTWLCRNGMEG TLIEGDLPEPKKVKPPRTHWDMLLERSIEELEELLKERLELIRSRRRG¹¹¹</u>
Hydrophilicity	<u>1MADRVLRGSRLGAVSYETDRNHDLAPRQIRYRTDNGEEFEVPFADDAEIPGTWLCRNGMEG TLIEGDLPEPKKVKPPRTHWDMLLERSIEELEELLKERLELIRSRRRG¹¹¹</u>
Flexibility	<u>1MADRVLRGSRLGAVSYETDRNHDLAPRQIARYRTDNGEEFEVPFADDAEIPGTWLCRNGMEG TLIEGDLPEPKKVKPPRTHWDMLLERSIEELEELLKERLELIRSRRRG¹¹¹</u>
Accessibility	<u>1MADRVLRGSRLGAVSYETDRNHDLAPRQIARYRTDNGEEFEVPFADDAEIPGTWLCRNGMEG TLIEGDLPEPKKVKPPRTHWDMLLERSIEELEELLKERLELIRSRRRG¹¹¹</u>
Turns	<u>1MADRVLRGSRLGAVSYTDRNHDLAPRQIARYRTDNGEEFEVPFADDAEIPGTWLCRNGMEG TLIEGDLPEPKKVKPPRTHWDMLLERSIEELEELLKERLELIRSRRRG¹¹¹</u>
Exposed Surface	<u>1MADRVLRGSRLGAVSYETDRNHDLAPRQIARYRTDNGEEFEVPFADDAEIPGTWLCRNGMEG TLIEGDLPEPKKVKPPRTHWDMLLERSIEELEELLKERLELIRSRRRG¹¹¹</u>
Polarity	<u>1MADRVLRGSRLGAVSYETDRNHDLAPRQIARYRTDNGEEFEVPFADDAEIPGTWLCRNGMEG TLIEGDLPEPKKVKPPRTHWDMLLERSIEELEELLKERLELIRSRRRG¹¹¹</u>
Antigenic Propensity	<u>1MADRVLRGSRLGAVSYETDRNHDLAPRQIARYRTDNGEEFEVPFADDAEIPGTWLCRNGMEG TLIEGDLPEPKKVKPPRTHWDMLLERSIEELEELLKERLELIRSRRRG¹¹¹</u>

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