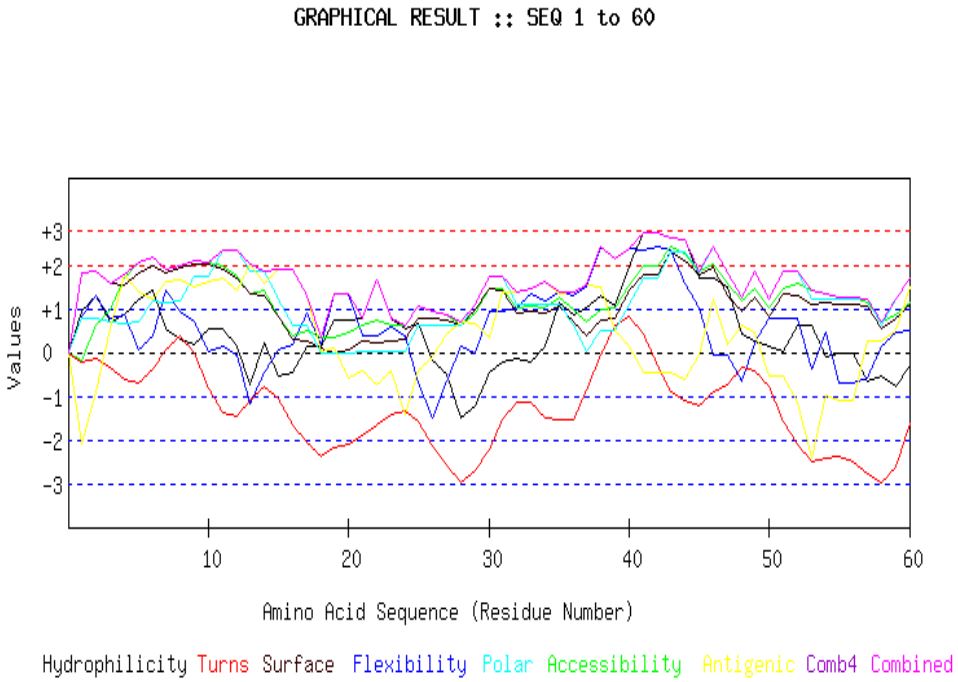
BcePred Prediction Server

The server displays 1.GRAPHICAL RESULT 2.TABULAR RESULT 3.Overlap Display

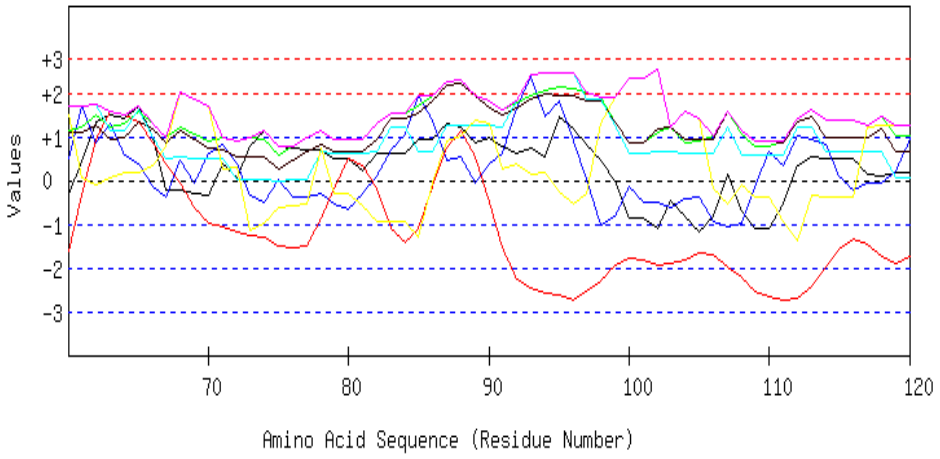
seqname=
Seq=VSTEQLPPDLRRVHMVGIGGAGMSGIARILLDRGGLVSGSDAKESRGVHALRARGALIRIGHDASSLDLLPG
GATAVVTTHAAIPKTNPELVEARRRGIPVVLRPAVLAKLMAGRTTLMVTGTHGKTTTTSMLIVALQHCGLDPSFAV
GGELGEAGTNAHHGSGDCFVAEADESDGSLLQYTPHVAVITNIESDHLDFYGSVEAYVAVFDSFVERIVPGGALV
VCTDDPGGAALAQRATELGIRVLRYGSVPGETMAATLVSWQQQGVGAVAHIRLASELATAQGPRVMRLSVPGRH
MALNALGALLAAVQIGAPADEVLDGLAGFEGVRRRFELVGTCGVGKASVRVFDDYAHHPTEISATLAAARMVLEQ
GDGGRCMVVFQPHLYSRTKAFAAEFGRALNAADEVFVLDVYGAREQPLAGVSGASVAEHVTVPMRYVPDFSAV
AQQVAAAASPGDVIVTMGAGDVTLLGPEILTALRVRANRSAPGRPGVLG

Length=494

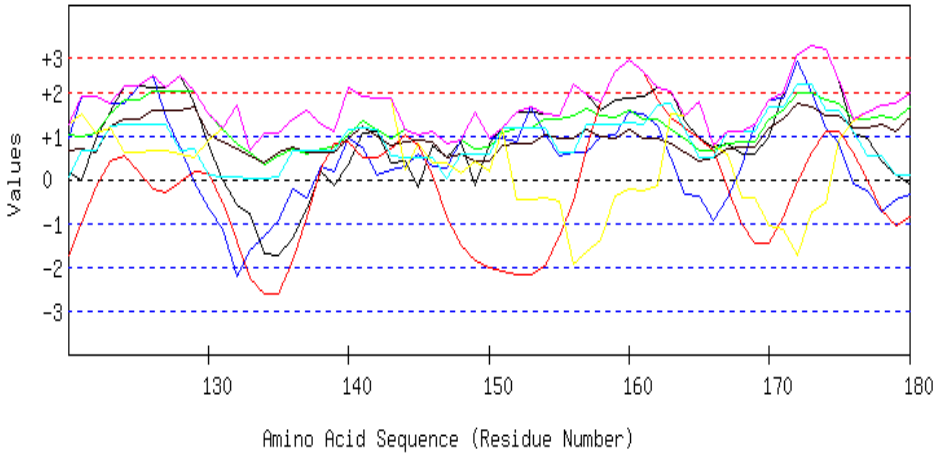
GRAPHICAL RESULT



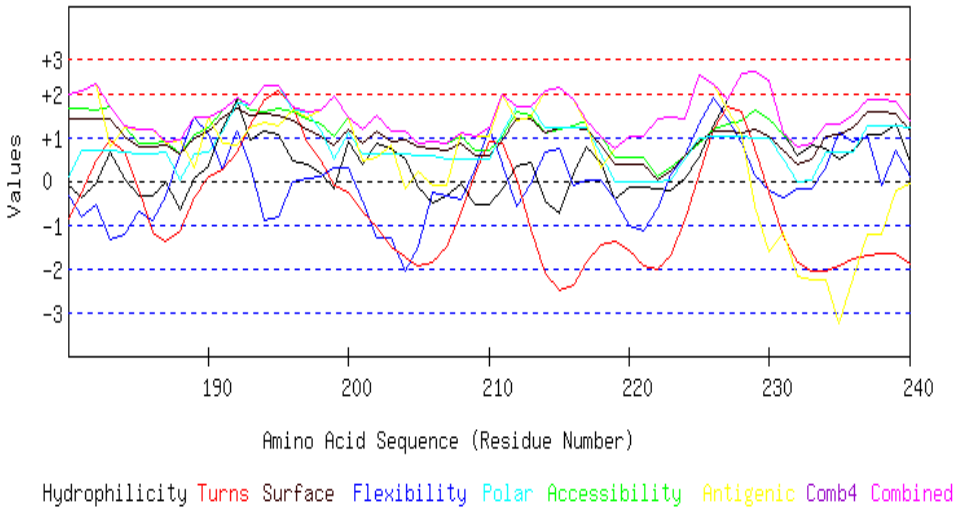
GRAPHICAL RESULT :: SEQ 61 to 120



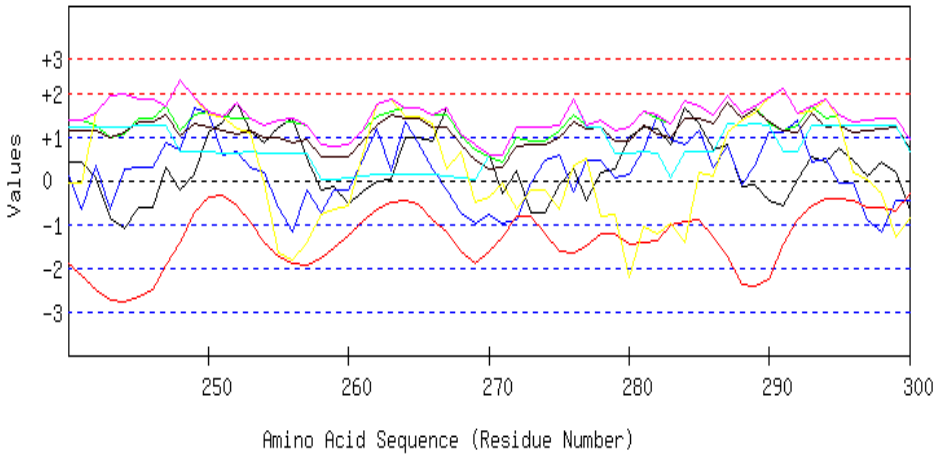
GRAPHICAL RESULT :: SEQ 121 to 180



GRAPHICAL RESULT :: SEQ 181 to 240

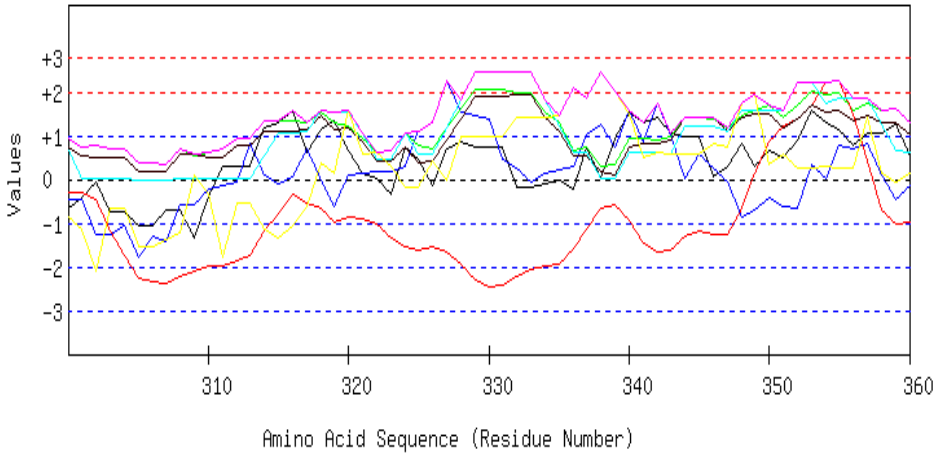


GRAPHICAL RESULT :: SEQ 241 to 300



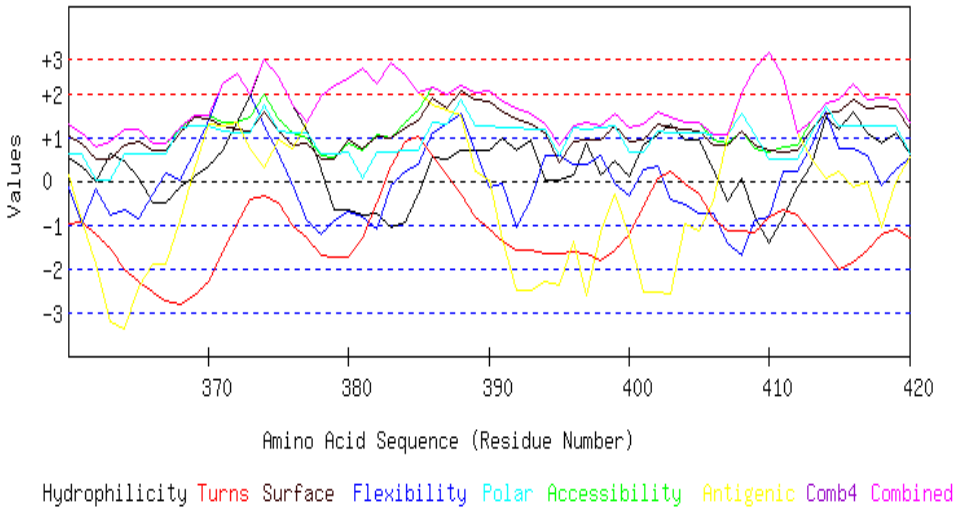
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 301 to 360

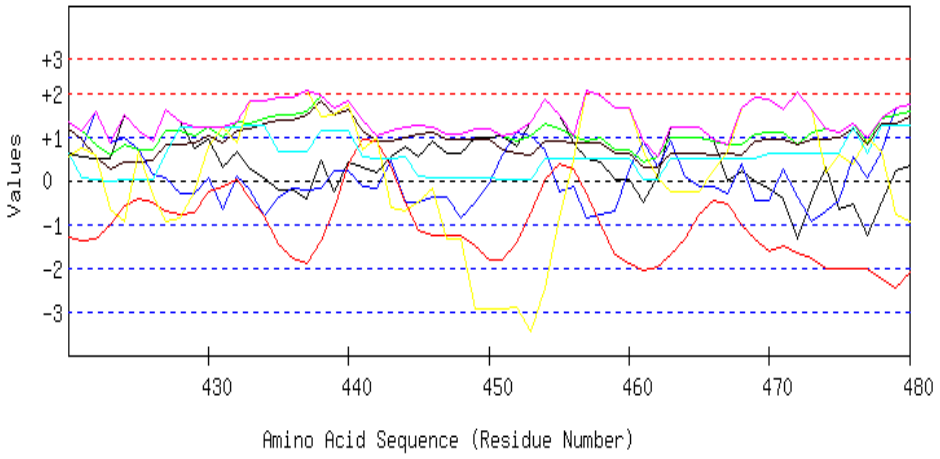


Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 361 to 420

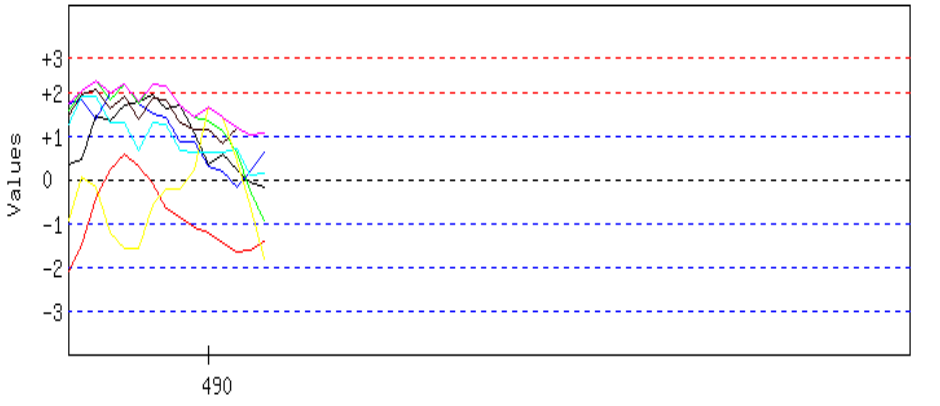


GRAPHICAL RESULT :: SEQ 421 to 480



Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 481 to 540



Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

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

VSTEQLPPDLRRVHMVGIGGAGMSGIARILLDRGGLVSGSDAKESRGVHALRARGALIRI
GHDASSLDLLPGGATAVVTTHAAIPKTNPELVEARRRGIPVVLRPAVLAKLMAGRTTLMV
TGTHGKTTTTSMLIVALQHCGLDPSFAVGGELGEAGTNAHHGSGDCFVAEADESDGSLLQ
YTPHVAVITNIESDHLDFYGSVEAYVAVFDSFVERIVPGGALVVCTDDPGGAALAQRATE
LGIRVLRYGSVPGETMAATLVSWQQQGVGAVAHIRLASELATAQGPRVMRLSVPGRHMAL
NALGALLAAVQIGAPADEVLDGLAGFEGVRRRFELVGTCGVGKASVRVFDDYAHHPTEIS
ATLAAARMVLEQGDGGRCMVVFQPHLYSRTKAFAAEFGRALNAADEVFVLDVYGAREQPL
AGVSGASVAEHVTVPMRYVPDFSAVAQQVAAAASPGDVIVTMGAGDVTLLGPEILTALRV
RANRSAPGRPGVLG

Length=494

A.A.	Parameter							Combined		
	Hydro	Flexi	Access	Turns	Surface	Polar	AntiPro	MAX	MIN	AVG
1 V	0.920	0.838	-0.177	-0.216	1.823	0.791	-2.086	1.823	-2.086	0.271
2 S	1.299	1.293	0.608	-0.124	1.877	0.774	-0.912	1.877	-0.912	0.688
3 T	0.718	0.796	0.982	-0.330	1.567	0.719	0.533	1.567	-0.330	0.712
4 E	0.850	0.844	1.683	-0.610	1.522	0.678	1.763	1.763	-0.610	0.961
5 Q	1.217	0.065	2.047	-0.710	1.804	0.695	1.394	2.047	-0.710	0.930
6 L	1.438	0.387	2.169	-0.390	1.968	1.164	1.225	2.169	-0.390	1.138
7 P	0.528	1.405	1.889	0.062	1.823	1.150	1.620	1.889	0.062	1.211
8 P	0.300	0.950	1.991	0.394	1.932	1.175	1.645	1.991	0.300	1.198
9 D	0.187	0.682	2.094	-0.035	2.032	1.757	1.481	2.094	-0.035	1.171
10 L	0.534	0.029	2.057	-0.832	2.014	1.753	1.635	2.057	-0.832	1.027
11 R	0.534	0.137	1.973	-1.379	1.914	2.354	1.682	2.354	-1.379	1.031
12 R	0.136	-0.050	1.720	-1.471	1.686	2.352	1.407	2.352	-1.471	0.826
13 V	-0.730	-1.188	1.328	-1.088	1.358	1.865	2.005	2.005	-1.188	0.507
14 H	0.212	-0.464	1.403	-0.797	1.303	1.859	1.570	1.859	-0.797	0.727
15 M	-0.559	0.073	0.832	-1.055	0.811	1.236	1.893	1.893	-1.055	0.461
16 V	-0.465	0.187	0.393	-1.654	0.291	0.612	1.894	1.894	-1.654	0.180
17 G	0.130	0.910	0.505	-2.071	0.255	0.610	1.305	1.305	-2.071	0.235
18 I	0.130	0.169	0.346	-2.367	0.082	-0.010	0.028	0.346	-2.367	-0.232
19 G	0.756	1.349	0.346	-2.174	-0.009	-0.027	0.083	1.349	-2.174	0.046
20 G	0.724	1.349	0.459	-2.110	0.045	-0.011	-0.561	1.349	-2.110	-0.015
21 A	0.775	0.397	0.618	-1.886	0.246	0.009	-0.401	0.775	-1.886	-0.035
22 G	1.641	0.397	0.748	-1.649	0.218	0.007	-0.723	1.641	-1.649	0.091
23 M	0.775	0.584	0.618	-1.416	0.246	0.009	-0.401	0.775	-1.416	0.059
24 S	0.547	0.373	0.627	-1.345	0.291	0.009	-1.412	0.627	-1.412	-0.130
25 G	0.680	-0.687	1.057	-1.577	0.765	0.634	-0.402	1.057	-1.577	0.067

26 I	-0.186	-1.518	0.926	-2.147	0.793	0.635	-0.081	0.926	-2.147	-0.225
27 A	-0.503	-0.655	0.851	-2.580	0.756	0.624	0.409	0.851	-2.580	-0.157
28 R	-1.495	0.159	0.618	-2.966	0.610	0.609	0.684	0.684	-2.966	-0.254
29 I	-1.223	-0.028	0.898	-2.686	0.975	1.098	0.675	1.098	-2.686	-0.042
30 L	-0.452	0.924	1.468	-2.208	1.467	1.721	0.353	1.721	-2.208	0.468
31 L	-0.224	0.924	1.459	-1.546	1.422	1.721	1.363	1.721	-1.546	0.731
32 D	-0.129	1.032	1.019	-1.155	0.902	1.096	1.364	1.364	-1.155	0.590
33 R	-0.205	1.349	1.075	-1.139	0.929	1.100	1.477	1.477	-1.139	0.655
34 G	0.142	1.163	1.038	-1.509	0.911	1.096	1.631	1.631	-1.509	0.639
35 G	1.135	1.391	1.272	-1.559	1.057	1.110	1.356	1.391	-1.559	0.823
36 L	0.863	1.303	0.991	-1.551	0.692	0.622	1.365	1.365	-1.551	0.612
37 V	1.009	1.507	0.711	-0.854	0.373	0.017	1.526	1.526	-0.854	0.613
38 S	1.280	2.435	0.991	-0.047	0.738	0.506	1.517	2.435	-0.047	1.060
39 G	1.053	2.154	1.001	0.608	0.784	0.506	0.506	2.154	0.506	0.945
40 S	1.995	2.383	1.533	0.809	1.412	1.095	0.136	2.383	0.136	1.338
41 D	2.722	2.341	1.982	0.414	1.786	1.693	-0.479	2.722	-0.479	1.494
42 A	2.722	2.429	1.982	-0.300	1.786	1.693	-0.479	2.722	-0.479	1.405
43 K	2.627	2.333	2.421	-0.904	2.306	2.318	-0.480	2.627	-0.904	1.517
44 E	2.577	1.591	2.262	-1.120	2.105	2.298	-0.639	2.577	-1.120	1.296
45 S	1.710	1.016	1.870	-1.240	1.777	1.810	-0.042	1.870	-1.240	0.986
46 R	1.710	-0.044	2.029	-0.901	1.950	2.430	1.236	2.430	-0.901	1.202
47 G	1.483	-0.044	1.580	-0.736	1.312	1.836	0.161	1.836	-0.736	0.799
48 V	0.408	-0.671	1.169	-0.351	0.957	1.241	0.622	1.241	-0.671	0.482
49 H	0.263	0.239	1.449	-0.436	1.276	1.846	0.461	1.846	-0.436	0.728
50 A	0.130	0.776	1.019	-0.768	0.802	1.221	-0.548	1.221	-0.768	0.376
51 L	0.035	0.776	1.459	-1.589	1.321	1.846	-0.549	1.846	-1.589	0.471
52 R	0.629	0.776	1.571	-2.117	1.285	1.844	-1.138	1.844	-2.117	0.407
53 A	0.629	-0.362	1.412	-2.498	1.112	1.225	-2.415	1.412	-2.498	-0.128
54 R	-0.085	0.451	1.328	-2.400	1.121	1.230	-0.970	1.328	-2.400	0.096
55 G	-0.009	-0.687	1.272	-2.399	1.093	1.226	-1.083	1.272	-2.399	-0.084
56 A	-0.009	-0.687	1.272	-2.499	1.093	1.226	-1.083	1.272	-2.499	-0.098
57 L	-0.648	-0.597	1.132	-2.799	1.075	1.228	0.249	1.228	-2.799	-0.051
58 I	-0.553	0.147	0.692	-2.979	0.556	0.604	0.250	0.692	-2.979	-0.183
59 R	-0.781	0.471	0.860	-2.631	0.774	1.223	0.517	1.223	-2.631	0.062
60 I	-0.281	0.513	1.132	-1.630	1.093	1.712	1.518	1.712	-1.630	0.580
61 G	0.433	1.694	1.216	-0.321	1.084	1.707	0.073	1.707	-0.321	0.841
62 H	1.350	0.862	1.505	0.949	1.257	1.725	-0.089	1.725	-0.089	1.080
63 D	1.495	1.311	1.225	1.568	0.938	1.121	0.072	1.568	0.072	1.104
64 A	1.420	0.568	1.281	1.489	0.966	1.124	0.185	1.489	0.185	1.005
65 S	1.691	0.363	1.561	1.328	1.330	1.613	0.176	1.691	0.176	1.152
66 S	0.977	-0.134	1.318	0.844	1.166	0.999	0.343	1.318	-0.134	0.788
67 L	-0.237	-0.362	0.963	0.369	0.856	0.515	0.787	0.963	-0.362	0.413
68 D	-0.237	0.469	1.206	-0.070	1.130	0.534	2.017	2.017	-0.237	0.721
69 L	-0.288	-0.070	1.047	-0.606	0.929	0.514	1.858	1.858	-0.606	0.484
70 L	-0.338	0.626	0.889	-0.973	0.729	0.494	1.698	1.698	-0.973	0.446
71 P	0.376	0.830	0.973	-1.060	0.720	0.489	0.253	0.973	-1.060	0.369
72 G	0.073	0.375	0.898	-1.197	0.556	0.020	0.303	0.898	-1.197	0.147
73 G	0.787	-0.348	0.982	-1.266	0.547	0.014	-1.142	0.982	-1.266	-0.061
74 A	1.135	-0.484	0.945	-1.314	0.528	0.010	-0.988	1.135	-1.314	-0.024
75 T	0.768	0.007	0.580	-1.508	0.246	-0.007	-0.620	0.768	-1.508	-0.076
76 A	0.737	-0.394	0.786	-1.534	0.446	0.013	-0.579	0.786	-1.534	-0.075
77 V	0.705	-0.394	0.991	-1.493	0.647	0.033	-0.539	0.991	-1.493	-0.007
78 V	0.705	-0.298	1.150	-0.864	0.820	0.653	0.739	1.150	-0.864	0.415
79 T	0.509	-0.526	0.954	-0.197	0.665	0.633	-0.312	0.954	-0.526	0.246
80 T	0.509	-0.659	0.954	0.480	0.665	0.633	-0.312	0.954	-0.659	0.324
81 H	0.237	-0.318	0.935	0.356	0.656	0.633	-0.579	0.935	-0.579	0.274
82 A	0.604	0.083	1.300	-0.192	0.938	0.650	-0.948	1.300	-0.948	0.348
83 A	0.636	0.692	1.552	-1.113	1.422	1.225	-0.924	1.552	-1.113	0.498
84 I	0.636	1.050	1.552	-1.421	1.422	1.225	-0.924	1.552	-1.421	0.506

85 P	0.945	1.950	1.692	-1.097	1.558	0.646	-1.304	1.950	-1.304	0.627
86 K	0.945	1.387	1.935	-0.122	1.832	0.665	-0.074	1.935	-0.122	0.938
87 T	1.306	0.459	2.262	0.753	2.196	1.264	0.910	2.262	0.459	1.307
88 N	1.230	0.544	2.318	1.126	2.224	1.268	1.023	2.318	0.544	1.390
89 P	0.863	-0.066	1.954	0.539	1.941	1.251	1.392	1.954	-0.066	1.125
90 E	0.996	0.389	1.832	-0.519	1.668	1.255	1.301	1.832	-0.519	0.989
91 L	0.800	0.628	1.636	-1.533	1.513	1.236	0.250	1.636	-1.533	0.647
92 V	0.623	1.646	1.767	-2.249	1.677	1.820	0.362	1.820	-2.249	0.806
93 E	0.756	2.369	1.954	-2.470	1.877	2.425	0.141	2.425	-2.470	1.007
94 A	0.528	1.469	2.057	-2.574	1.987	2.450	0.166	2.450	-2.574	0.869
95 R	1.470	1.828	2.132	-2.636	1.932	2.445	-0.268	2.445	-2.636	0.986
96 R	1.198	0.918	2.113	-2.738	1.923	2.445	-0.535	2.445	-2.738	0.761
97 R	0.838	0.009	2.029	-2.534	1.832	1.865	-0.289	2.029	-2.534	0.536
98 G	0.471	-1.009	1.907	-2.302	1.823	1.866	1.310	1.907	-2.302	0.581
99 I	-0.028	-0.823	1.356	-1.932	1.339	1.243	1.899	1.899	-1.932	0.436
100P	-0.876	-0.140	0.842	-1.761	0.875	0.624	2.335	2.335	-1.761	0.271
101V	-0.876	-0.498	0.842	-1.800	0.875	0.624	2.335	2.335	-1.800	0.214
102V	-1.103	-0.498	1.094	-1.924	1.194	0.643	2.555	2.555	-1.924	0.280
103L	-0.465	-0.607	1.234	-1.910	1.212	0.641	1.223	1.234	-1.910	0.190
104R	-0.831	-0.402	0.870	-1.806	0.929	0.624	1.592	1.592	-1.806	0.139
105P	-1.179	-0.384	0.907	-1.654	0.948	0.627	1.438	1.438	-1.654	0.100
106A	-0.812	-0.947	1.029	-1.694	0.957	0.626	-0.161	1.029	-1.694	-0.143
107V	0.130	-1.061	1.561	-1.978	1.586	1.215	-0.531	1.586	-1.978	0.132
108L	-0.717	-0.965	1.047	-2.227	1.121	0.596	-0.095	1.121	-2.227	-0.177
109A	-1.116	-0.134	0.795	-2.551	0.893	0.594	-0.370	0.893	-2.551	-0.270
110K	-1.116	0.680	0.795	-2.667	0.893	0.594	-0.370	0.893	-2.667	-0.170
111L	-0.521	0.339	0.907	-2.732	0.856	0.592	-0.958	0.907	-2.732	-0.217
112M	0.326	1.034	1.421	-2.696	1.321	1.212	-1.394	1.421	-2.696	0.175
113A	0.522	0.944	1.617	-2.434	1.476	1.232	-0.343	1.617	-2.434	0.431
114G	0.490	0.830	1.365	-1.995	0.993	0.657	-0.368	1.365	-1.995	0.282
115R	0.490	0.107	1.365	-1.567	0.993	0.657	-0.368	1.365	-1.567	0.240
116T	0.490	-0.216	1.365	-1.330	0.993	0.657	-0.368	1.365	-1.330	0.227
117T	0.123	-0.080	1.244	-1.444	0.984	0.659	1.231	1.244	-1.444	0.388
118L	0.092	-0.080	1.449	-1.737	1.185	0.678	1.272	1.449	-1.737	0.408
119M	0.187	0.215	1.010	-1.916	0.665	0.054	1.273	1.273	-1.916	0.212
120V	0.187	0.956	1.010	-1.736	0.665	0.054	1.273	1.273	-1.736	0.344
121T	-0.009	1.884	0.973	-0.995	0.683	0.654	1.499	1.884	-0.995	0.670
122G	0.933	1.884	1.047	-0.179	0.629	0.648	1.065	1.884	-0.179	0.861
123T	1.559	1.748	1.505	0.430	1.221	1.226	1.185	1.748	0.430	1.268
124H	2.121	1.748	1.823	0.539	1.385	1.244	0.637	2.121	0.539	1.357
125G	2.121	2.148	1.823	0.165	1.385	1.244	0.637	2.148	0.165	1.361
126K	2.090	2.377	2.029	-0.225	1.586	1.264	0.677	2.377	-0.225	1.400
127T	2.090	1.431	2.029	-0.304	1.586	1.264	0.677	2.090	-0.304	1.253
128T	2.368	0.736	2.019	-0.070	1.567	0.664	0.570	2.368	-0.070	1.122
129T	1.742	-0.080	2.019	0.172	1.658	0.681	0.514	2.019	-0.080	0.958
130T	0.800	-0.667	1.487	0.130	1.030	0.092	0.884	1.487	-0.667	0.537
131S	-0.035	-1.158	1.150	-0.551	0.856	0.074	1.165	1.165	-1.158	0.215
132M	-0.597	-2.217	0.832	-1.419	0.692	0.056	1.713	1.713	-2.217	-0.134
133L	-0.793	-1.612	0.636	-2.250	0.537	0.036	0.662	0.662	-2.250	-0.398
134I	-1.704	-1.318	0.356	-2.637	0.392	0.021	1.057	1.057	-2.637	-0.548
135V	-1.735	-0.957	0.533	-2.626	0.610	0.044	1.060	1.060	-2.626	-0.439
136A	-1.337	-0.234	0.702	-1.853	0.738	0.646	1.383	1.383	-1.853	0.006
137L	-0.667	-0.438	0.571	-0.845	0.638	0.659	1.570	1.570	-0.845	0.212
138Q	0.199	0.305	0.702	0.274	0.610	0.657	1.249	1.249	0.199	0.571
139H	-0.148	0.173	0.739	0.836	0.629	0.661	1.095	1.095	-0.148	0.569
140C	0.351	0.938	1.010	0.880	0.948	1.150	2.096	2.096	0.351	1.053
141G	1.065	0.728	1.337	0.503	1.212	1.163	1.881	1.881	0.503	1.127
142L	1.097	0.101	1.160	0.498	0.993	1.141	1.877	1.877	0.101	0.981
143D	0.383	0.209	0.935	0.713	0.774	0.525	1.861	1.861	0.209	0.771

144P	0.427	0.297	1.150	1.010	0.866	0.507	0.229	1.150	0.229	0.641
145S	-0.167	0.566	1.038	0.767	0.902	0.509	0.817	1.038	-0.167	0.633
146F	0.775	0.285	1.113	0.083	0.847	0.504	0.383	1.113	0.083	0.570
147A	0.503	0.255	0.832	-0.870	0.483	0.015	0.392	0.832	-0.870	0.230
148V	0.863	0.882	0.917	-1.492	0.574	0.595	0.146	0.917	-1.492	0.355
149G	-0.129	1.553	0.683	-1.877	0.428	0.581	0.421	1.553	-1.877	0.237
150G	0.813	0.926	0.739	-2.016	0.428	0.576	0.170	0.926	-2.016	0.234
151E	1.173	0.926	1.066	-2.108	0.793	1.176	1.154	1.176	-2.108	0.597
152L	1.540	0.842	1.188	-2.166	0.802	1.174	-0.445	1.540	-2.166	0.419
153G	1.540	1.656	1.188	-2.169	0.802	1.174	-0.445	1.656	-2.169	0.535
154E	1.508	1.028	1.393	-1.998	1.002	1.194	-0.405	1.508	-1.998	0.532
155A	1.457	0.544	1.365	-1.313	0.948	0.635	-0.491	1.457	-1.313	0.449
156G	2.172	0.634	1.449	-0.504	0.938	0.630	-1.936	2.172	-1.936	0.483
157T	1.944	0.634	1.617	0.715	1.157	1.250	-1.669	1.944	-1.669	0.807
158N	1.584	0.998	1.449	1.800	0.966	1.270	-1.376	1.800	-1.376	0.956
159A	1.812	1.016	1.440	2.465	0.920	1.270	-0.365	2.465	-0.365	1.223
160H	1.862	1.555	1.599	2.740	1.121	1.290	-0.206	2.740	-0.206	1.423
161H	1.894	1.501	1.393	2.441	0.920	1.270	-0.246	2.441	-0.246	1.311
162G	2.083	1.237	1.365	1.838	0.929	1.719	-0.142	2.083	-0.142	1.290
163S	2.039	0.513	1.150	1.428	0.838	1.736	1.490	2.039	0.513	1.314
164G	1.325	-0.342	0.926	1.171	0.619	1.121	1.474	1.474	-0.342	0.899
165D	0.958	-0.394	0.646	0.922	0.437	0.502	1.795	1.795	-0.394	0.695
166C	0.730	-0.933	0.655	0.652	0.483	0.502	0.785	0.785	-0.933	0.411
167F	0.813	-0.430	0.832	-0.206	0.692	1.082	0.599	1.082	-0.430	0.483
168V	0.585	0.319	0.842	-1.018	0.738	1.082	-0.412	1.082	-1.018	0.305
169A	0.585	1.271	0.842	-1.477	0.738	1.082	-0.412	1.271	-1.477	0.376
170E	0.990	1.810	1.384	-1.478	1.194	1.664	-1.060	1.810	-1.478	0.643
171A	1.982	1.862	1.599	-0.853	1.394	1.680	-1.151	1.982	-1.151	0.930
172D	2.848	2.717	1.991	-0.044	1.722	2.167	-1.749	2.848	-1.749	1.379
173E	3.076	1.974	1.982	0.603	1.677	2.167	-0.739	3.076	-0.739	1.534
174S	2.994	1.195	1.804	1.088	1.467	1.587	-0.553	2.994	-0.553	1.369
175D	2.279	0.830	1.720	1.113	1.476	1.593	0.893	2.279	0.830	1.415
176G	1.065	-0.116	1.365	0.606	1.166	1.109	1.336	1.365	-0.116	0.933
177S	0.952	-0.252	1.365	-0.004	1.175	0.552	1.526	1.526	-0.252	0.759
178L	0.421	-0.749	1.468	-0.701	1.257	0.551	1.698	1.698	-0.749	0.564
179L	0.117	-0.454	1.393	-1.077	1.093	0.082	1.748	1.748	-1.077	0.415
180Q	-0.111	-0.346	1.646	-0.863	1.412	0.101	1.968	1.968	-0.863	0.544
181Y	-0.389	-0.837	1.655	-0.242	1.431	0.701	2.075	2.075	-0.837	0.628
182T	-0.041	-0.526	1.617	0.459	1.412	0.697	2.229	2.229	-0.526	0.835
183P	0.673	-1.342	1.702	0.938	1.403	0.692	0.784	1.702	-1.342	0.693
184H	0.060	-1.210	1.253	0.670	1.020	0.651	1.209	1.253	-1.210	0.522
185V	-0.325	-0.691	0.860	-0.186	0.765	0.634	1.199	1.199	-0.691	0.322
186A	-0.325	-0.919	0.860	-1.179	0.765	0.634	1.199	1.199	-1.179	0.148
187V	-0.016	-0.344	0.917	-1.368	0.802	0.655	0.866	0.917	-1.368	0.216
188I	-0.654	0.608	0.618	-1.145	0.610	0.037	0.920	0.920	-1.145	0.142
189T	0.073	1.471	1.066	-0.371	0.984	0.635	0.305	1.471	-0.371	0.595
190N	0.351	1.070	1.216	0.084	1.139	0.655	1.475	1.475	0.084	0.856
191I	1.217	0.257	1.608	0.245	1.467	1.143	0.877	1.608	0.245	0.974
192E	1.856	1.121	1.907	0.674	1.658	1.761	0.823	1.907	0.674	1.400
193S	0.945	0.371	1.627	1.249	1.513	1.746	1.217	1.746	0.371	1.238
194D	1.135	-0.891	1.599	1.873	1.522	2.194	1.321	2.194	-0.891	1.250
195H	1.059	-0.803	1.674	2.068	1.494	2.197	1.251	2.197	-0.803	1.277
196L	0.446	-0.038	1.599	1.708	1.367	1.617	1.609	1.708	-0.038	1.187
197D	0.395	0.071	1.440	0.911	1.166	1.597	1.450	1.597	0.071	1.004
198F	0.174	0.107	1.318	0.443	1.002	1.128	1.619	1.619	0.107	0.827
199Y	-0.193	0.281	1.038	-0.099	0.820	0.509	1.940	1.940	-0.193	0.614
200G	0.882	0.281	1.449	-0.246	1.175	1.104	1.479	1.479	-0.246	0.875
201S	0.383	-0.442	1.178	-0.680	0.856	0.615	0.477	1.178	-0.680	0.341
202V	0.844	-1.298	1.496	-1.049	1.139	0.630	0.558	1.496	-1.298	0.331

203E	0.730	-1.298	1.122	-1.509	0.893	0.612	0.815	1.122	-1.509	0.195
204A	0.503	-2.047	1.132	-1.747	0.938	0.612	-0.195	1.132	-2.047	-0.115
205Y	-0.142	-1.508	0.860	-1.956	0.774	0.593	0.234	0.860	-1.956	-0.163
206V	-0.490	-0.246	0.917	-1.857	0.738	0.596	-0.104	0.917	-1.857	-0.064
207A	-0.351	-0.324	0.860	-1.497	0.692	0.485	-0.087	0.860	-1.497	-0.032
208V	-0.073	-0.420	1.010	-0.745	0.847	0.506	1.083	1.083	-0.745	0.315
209F	-0.534	0.251	0.692	0.197	0.565	0.490	1.002	1.002	-0.534	0.381
210D	-0.534	1.239	0.692	0.883	0.565	0.490	1.002	1.239	-0.534	0.620
211S	-0.174	0.375	1.019	0.845	0.929	1.090	1.986	1.986	-0.174	0.867
212F	0.326	-0.576	1.571	0.063	1.412	1.713	1.397	1.713	-0.576	0.844
213V	0.402	-0.044	1.496	-1.089	1.440	1.711	1.467	1.711	-1.089	0.769
214E	-0.465	0.680	1.103	-2.094	1.112	1.223	2.065	2.065	-2.094	0.518
215R	-0.743	0.732	1.197	-2.487	1.230	1.222	2.125	2.125	-2.487	0.468
216I	0.199	-0.082	1.253	-2.369	1.230	1.218	1.874	1.874	-2.369	0.475
217V	0.794	0.039	1.365	-1.872	1.194	1.216	1.286	1.365	-1.872	0.574
218P	0.433	0.039	1.038	-1.464	0.829	0.617	0.302	1.038	-1.464	0.256
219G	-0.414	-0.416	0.524	-1.371	0.364	-0.002	0.738	0.738	-1.371	-0.083
220G	-0.142	-1.007	0.543	-1.597	0.373	-0.003	1.005	1.005	-1.597	-0.118
221A	-0.142	-1.144	0.543	-1.926	0.373	-0.003	1.005	1.005	-1.926	-0.185
222L	-0.186	-0.605	0.085	-2.015	0.009	-0.004	1.407	1.407	-2.015	-0.187
223V	-0.218	0.139	0.290	-1.701	0.209	0.016	1.447	1.447	-1.701	0.026
224V	0.054	0.594	0.571	-0.903	0.574	0.505	1.438	1.438	-0.903	0.405
225C	0.553	1.317	0.842	0.138	0.893	0.994	2.439	2.439	0.138	1.025
226T	1.268	1.908	1.169	1.162	1.157	1.008	2.224	2.224	1.008	1.414
227D	1.862	1.417	1.281	1.681	1.121	1.006	1.636	1.862	1.006	1.429
228D	2.456	0.878	1.393	1.584	1.084	1.004	1.047	2.456	0.878	1.350
229P	2.501	0.135	1.608	0.748	1.175	0.987	-0.585	2.501	-0.585	0.938
230G	2.305	-0.224	1.412	-0.274	1.020	0.967	-1.636	2.305	-1.636	0.510
231G	1.091	-0.360	1.057	-1.255	0.711	0.483	-1.192	1.091	-1.255	0.076
232A	0.591	-0.174	0.786	-1.872	0.392	-0.006	-2.193	0.786	-2.193	-0.354
233A	0.838	-0.174	0.870	-2.066	0.492	0.018	-2.250	0.870	-2.250	-0.325
234L	0.743	0.317	1.309	-2.058	1.011	0.642	-2.251	1.309	-2.251	-0.041
235A	0.515	1.097	1.318	-1.945	1.057	0.642	-3.261	1.318	-3.261	-0.082
236Q	0.711	0.892	1.515	-1.772	1.212	0.662	-2.210	1.515	-2.210	0.144
237R	1.072	1.028	1.842	-1.691	1.576	1.262	-1.227	1.842	-1.691	0.552
238A	1.072	-0.110	1.842	-1.651	1.576	1.262	-1.227	1.842	-1.651	0.395
239T	1.299	0.704	1.832	-1.661	1.531	1.262	-0.216	1.832	-1.661	0.679
240E	0.414	0.117	1.365	-1.905	1.139	1.221	-0.058	1.365	-1.905	0.328
241L	0.414	-0.663	1.365	-2.183	1.139	1.221	-0.058	1.365	-2.183	0.177
242G	0.048	0.355	1.244	-2.485	1.130	1.223	1.541	1.541	-2.485	0.436
243I	-0.863	-0.679	0.963	-2.731	0.984	1.208	1.935	1.935	-2.731	0.117
244R	-1.090	0.273	1.066	-2.787	1.093	1.233	1.961	1.961	-2.787	0.250
245V	-0.629	0.315	1.403	-2.660	1.321	1.247	1.858	1.858	-2.660	0.408
246L	-0.629	0.315	1.403	-2.489	1.321	1.247	1.858	1.858	-2.489	0.432
247R	0.288	0.878	1.692	-1.947	1.494	1.266	1.696	1.696	-1.947	0.767
248Y	-0.212	0.692	1.141	-1.429	1.011	0.642	2.286	2.286	-1.429	0.590
249G	0.155	1.674	1.505	-0.745	1.294	0.660	1.917	1.917	-0.745	0.923
250S	1.097	1.537	1.580	-0.388	1.239	0.654	1.482	1.580	-0.388	1.029
251V	1.325	0.568	1.477	-0.324	1.130	0.629	1.457	1.477	-0.324	0.894
252P	1.774	0.664	1.421	-0.575	1.048	0.630	1.165	1.774	-0.575	0.875
253G	1.148	0.305	1.421	-0.956	1.139	0.647	1.110	1.421	-0.956	0.688
254E	0.869	0.169	1.272	-1.419	0.984	0.627	-0.060	1.272	-1.419	0.349
255T	1.236	-0.611	1.393	-1.726	0.993	0.626	-1.659	1.393	-1.726	0.036
256M	1.432	-1.198	1.346	-1.915	0.875	0.626	-1.838	1.432	-1.915	-0.096
257A	0.490	-0.228	1.272	-1.957	0.929	0.632	-1.403	1.272	-1.957	-0.038
258A	-0.237	-0.731	0.823	-1.789	0.556	0.034	-0.788	0.823	-1.789	-0.305
259T	-0.155	-0.240	0.776	-1.522	0.556	0.034	-0.669	0.776	-1.522	-0.174
260L	-0.521	-0.240	0.804	-1.241	0.528	0.042	-0.592	0.804	-1.241	-0.174
261V	-0.275	0.455	1.132	-0.928	0.902	0.084	0.582	1.132	-0.928	0.279

262S	-0.028	1.179	1.459	-0.669	1.276	0.127	1.755	1.755	-0.669	0.728
263W	0.022	0.227	1.589	-0.508	1.494	0.149	1.877	1.877	-0.508	0.693
264Q	0.964	1.357	1.664	-0.475	1.440	0.144	1.443	1.664	-0.475	0.934
265Q	0.964	0.866	1.664	-0.542	1.440	0.144	1.443	1.664	-0.542	0.854
266Q	0.914	0.279	1.505	-0.886	1.239	0.124	1.283	1.505	-0.886	0.637
267G	1.679	-0.212	1.487	-1.199	1.221	0.099	0.251	1.679	-1.199	0.475
268V	1.065	-0.749	1.038	-1.603	0.838	0.058	0.676	1.065	-1.603	0.189
269G	0.819	-0.977	0.711	-1.884	0.465	0.015	-0.497	0.819	-1.884	-0.193
270A	0.572	-0.791	0.543	-1.636	0.264	0.593	-0.393	0.593	-1.636	-0.121
271V	-0.294	-0.995	0.412	-1.305	0.291	0.595	-0.072	0.595	-1.305	-0.195
272A	0.206	-0.899	0.963	-0.822	0.774	1.218	-0.661	1.218	-0.899	0.111
273H	-0.736	-0.044	0.889	-0.820	0.829	1.223	-0.227	1.223	-0.820	0.159
274I	-0.736	0.441	0.889	-1.220	0.829	1.223	-0.227	1.223	-1.220	0.171
275R	-0.092	0.562	1.160	-1.631	0.993	1.242	-0.655	1.242	-1.631	0.225
276L	0.269	-0.252	1.487	-1.673	1.358	1.841	0.328	1.841	-1.673	0.480
277A	-0.446	0.443	1.244	-1.515	1.194	1.227	0.496	1.244	-1.515	0.378
278S	0.193	0.443	1.384	-1.226	1.212	1.225	-0.836	1.384	-1.226	0.342
279E	0.256	0.079	1.150	-1.229	0.893	0.620	-0.794	1.150	-1.229	0.139
280L	0.971	0.131	1.234	-1.475	0.884	0.615	-2.239	1.234	-2.239	0.017
281A	1.217	0.694	1.561	-1.429	1.257	0.657	-1.066	1.561	-1.429	0.413
282T	1.167	1.507	1.403	-1.389	1.057	0.637	-1.225	1.507	-1.389	0.451
283A	0.806	0.920	1.318	-1.026	0.966	0.057	-0.979	1.318	-1.026	0.295
284Q	1.653	0.806	1.832	-0.924	1.431	0.676	-1.415	1.832	-1.415	0.580
285G	1.287	1.129	1.711	-0.902	1.422	0.677	0.184	1.711	-0.902	0.787
286P	0.692	0.297	1.505	-1.285	1.312	0.675	0.088	1.505	-1.285	0.469
287R	0.825	0.794	1.935	-1.754	1.786	1.299	1.097	1.935	-1.754	0.855
288V	-0.136	-0.116	1.524	-2.379	1.422	1.262	1.369	1.524	-2.379	0.421
289M	-0.085	0.339	1.683	-2.438	1.622	1.282	1.528	1.683	-2.438	0.562
290R	-0.452	1.080	1.318	-2.261	1.339	1.265	1.897	1.897	-2.261	0.598
291L	-0.585	1.080	1.132	-1.469	1.139	0.659	2.118	2.118	-1.469	0.582
292S	0.010	1.375	1.244	-0.881	1.103	0.658	1.530	1.530	-0.881	0.720
293V	0.541	0.405	1.683	-0.585	1.531	1.265	1.584	1.683	-0.585	0.918
294P	0.408	0.501	1.412	-0.411	1.230	1.260	1.852	1.852	-0.411	0.893
295G	0.724	-0.062	1.487	-0.440	1.267	1.272	1.362	1.487	-0.440	0.801
296R	0.446	-0.080	1.337	-0.466	1.112	1.252	0.192	1.337	-0.466	0.542
297H	0.098	-0.893	1.375	-0.611	1.130	1.256	0.038	1.375	-0.893	0.342
298M	0.408	-1.188	1.431	-0.618	1.166	1.278	-0.295	1.431	-1.188	0.312
299A	0.180	-0.446	1.440	-0.689	1.212	1.278	-1.305	1.440	-1.305	0.238
300L	-0.667	-0.446	0.926	-0.298	0.747	0.658	-0.869	0.926	-0.869	0.007
301N	-0.439	-0.446	0.758	-0.316	0.528	0.038	-1.136	0.758	-1.136	-0.145
302A	-0.041	-1.260	0.767	-0.477	0.483	0.021	-2.091	0.767	-2.091	-0.371
303L	-0.755	-1.260	0.683	-1.192	0.492	0.027	-0.646	0.683	-1.260	-0.379
304G	-0.755	-1.055	0.683	-1.754	0.492	0.027	-0.646	0.683	-1.754	-0.430
305A	-1.065	-1.779	0.384	-2.275	0.182	-0.014	-1.543	0.384	-2.275	-0.873
306L	-1.065	-1.288	0.384	-2.351	0.182	-0.014	-1.543	0.384	-2.351	-0.814
307L	-0.717	-1.408	0.346	-2.366	0.164	-0.018	-1.390	0.346	-2.366	-0.770
308A	-0.698	-0.576	0.683	-2.231	0.583	0.025	-1.227	0.683	-2.231	-0.492
309A	-1.337	-0.576	0.543	-2.119	0.565	0.026	0.105	0.565	-2.119	-0.399
310V	-0.395	-0.218	0.618	-1.961	0.510	0.021	-0.329	0.618	-1.961	-0.251
311Q	0.319	-0.122	0.702	-1.973	0.501	0.016	-1.775	0.702	-1.973	-0.333
312I	0.319	-0.074	0.945	-1.861	0.774	0.035	-0.544	0.945	-1.861	-0.058
313G	0.319	0.826	0.945	-1.750	0.774	0.035	-0.544	0.945	-1.750	0.086
314A	1.186	0.103	1.337	-1.166	1.103	0.522	-1.142	1.337	-1.166	0.277
315P	1.299	-0.102	1.337	-0.763	1.093	1.079	-1.332	1.337	-1.332	0.373
316A	1.571	0.079	1.356	-0.352	1.103	1.079	-1.065	1.571	-1.065	0.539
317D	0.629	0.706	1.281	-0.541	1.157	1.084	-0.630	1.281	-0.630	0.527
318E	1.129	-0.038	1.552	-0.679	1.476	1.573	0.371	1.573	-0.679	0.769
319V	1.356	-0.613	1.300	-0.983	1.157	1.554	0.151	1.554	-0.983	0.560
320L	0.642	0.111	1.216	-0.840	1.166	1.560	1.597	1.597	-0.840	0.779

321D	0.142	0.141	0.945	-0.904	0.847	1.071	0.595	1.071	-0.904	0.405
322G	0.010	0.177	0.608	-1.017	0.437	0.471	0.622	0.622	-1.017	0.187
323L	-0.338	0.177	0.664	-1.344	0.401	0.474	0.284	0.664	-1.344	0.045
324A	0.737	0.285	1.075	-1.536	0.756	1.068	-0.177	1.075	-1.536	0.315
325G	0.465	1.099	0.795	-1.609	0.392	0.579	-0.168	1.099	-1.609	0.222
326F	-0.129	1.285	0.683	-1.545	0.428	0.581	0.421	1.285	-1.545	0.246
327E	0.718	2.273	1.197	-1.649	0.893	1.200	-0.015	2.273	-1.649	0.659
328G	0.850	1.523	1.627	-1.954	1.367	1.825	0.994	1.825	-1.954	0.890
329V	0.756	1.471	2.066	-2.293	1.886	2.449	0.993	2.449	-2.293	1.047
330R	0.756	1.363	2.066	-2.470	1.886	2.449	0.993	2.449	-2.470	1.006
331R	0.756	0.453	2.066	-2.425	1.886	2.449	0.993	2.449	-2.425	0.883
332R	-0.186	0.267	1.991	-2.232	1.941	2.455	1.428	2.455	-2.232	0.809
333F	-0.186	-0.056	1.991	-2.066	1.941	2.455	1.428	2.455	-2.066	0.787
334E	-0.092	0.155	1.552	-1.998	1.422	1.830	1.429	1.830	-1.998	0.614
335L	-0.028	0.207	1.318	-1.940	1.103	1.225	1.471	1.471	-1.940	0.479
336V	-0.205	0.315	0.674	-1.594	0.537	0.618	2.094	2.094	-1.594	0.348
337G	0.737	1.038	0.730	-1.149	0.537	0.614	1.843	1.843	-1.149	0.621
338T	0.010	1.243	0.281	-0.679	0.164	0.016	2.458	2.458	-0.679	0.499
339C	0.952	0.752	0.356	-0.581	0.109	0.011	2.023	2.023	-0.581	0.517
340G	1.546	1.571	0.926	-0.930	0.756	0.604	1.499	1.571	-0.930	0.853
341V	1.318	0.848	0.935	-1.454	0.802	0.604	0.489	1.318	-1.454	0.506
342G	1.401	1.758	0.889	-1.644	0.802	0.604	0.608	1.758	-1.644	0.631
343K	1.078	1.034	0.982	-1.601	0.884	0.588	0.575	1.078	-1.601	0.506
344A	0.983	0.029	1.421	-1.281	1.403	1.212	0.573	1.421	-1.281	0.620
345S	0.983	0.568	1.421	-1.165	1.403	1.212	0.573	1.421	-1.165	0.714
346V	0.041	0.251	1.365	-1.271	1.403	1.217	0.824	1.403	-1.271	0.547
347R	0.313	-0.060	1.188	-1.244	1.084	1.111	0.750	1.188	-1.244	0.449
348V	0.813	-0.873	1.459	-0.669	1.403	1.600	1.751	1.751	-0.873	0.783
349F	0.281	-0.687	1.561	0.128	1.485	1.599	1.924	1.924	-0.687	0.899
350D	0.648	-0.422	1.683	0.861	1.494	1.597	0.325	1.683	-0.422	0.884
351D	0.515	-0.603	1.412	1.233	1.194	1.593	0.593	1.593	-0.603	0.848
352Y	0.882	-0.651	1.692	1.377	1.376	2.211	0.272	2.211	-0.651	1.023
353A	1.597	0.331	2.001	1.712	1.695	2.226	0.240	2.226	0.240	1.400
354H	1.293	0.007	1.926	2.206	1.531	1.757	0.290	2.206	0.007	1.287
355H	1.154	0.772	1.982	2.256	1.576	1.867	0.273	2.256	0.273	1.412
356P	0.768	0.682	1.589	1.487	1.321	1.850	0.262	1.850	0.262	1.137
357T	1.046	0.814	1.739	0.426	1.476	1.870	1.432	1.870	0.426	1.258
358E	1.046	0.119	1.580	-0.691	1.303	1.250	0.155	1.580	-0.691	0.680
359I	1.242	-0.456	1.617	-1.023	1.285	0.650	-0.072	1.617	-1.023	0.463
360S	0.528	-0.132	1.290	-0.990	1.020	0.637	0.143	1.290	-0.990	0.357
361A	0.332	-0.987	1.094	-0.938	0.866	0.617	-0.907	1.094	-0.987	0.011
362T	-0.028	-0.174	0.767	-1.201	0.501	0.017	-1.891	0.767	-1.891	-0.287
363L	0.610	-0.779	0.907	-1.524	0.519	0.015	-3.223	0.907	-3.223	-0.496
364A	0.465	-0.671	1.188	-2.030	0.838	0.620	-3.384	1.188	-3.384	-0.425
365A	0.067	-0.875	1.178	-2.284	0.884	0.637	-2.429	1.178	-2.429	-0.403
366A	-0.496	-0.300	0.860	-2.560	0.720	0.619	-1.881	0.860	-2.560	-0.434
367R	-0.496	0.191	0.860	-2.725	0.720	0.619	-1.881	0.860	-2.725	-0.387
368M	-0.136	0.005	1.188	-2.802	1.084	1.218	-0.897	1.218	-2.802	-0.049
369V	0.111	0.658	1.515	-2.631	1.458	1.261	0.276	1.515	-2.631	0.378
370L	0.338	1.381	1.505	-2.314	1.412	1.261	1.287	1.505	-2.314	0.696
371E	0.705	2.213	1.346	-1.636	1.257	1.125	1.279	2.213	-1.636	0.898
372Q	1.331	2.451	1.346	-0.983	1.166	1.108	1.334	2.451	-0.983	1.108
373G	1.925	1.996	1.459	-0.419	1.130	1.106	0.746	1.996	-0.419	1.135
374D	2.773	1.255	1.973	-0.349	1.595	1.725	0.310	2.773	-0.349	1.326
375G	2.368	0.620	1.431	-0.483	1.139	1.144	0.958	2.368	-0.483	1.025
376G	1.723	-0.104	1.094	-1.030	0.811	1.118	0.740	1.723	-1.030	0.622
377R	1.129	-0.905	0.982	-1.302	0.847	1.120	1.328	1.328	-1.302	0.457
378C	0.263	-1.228	0.589	-1.688	0.519	0.633	1.926	1.926	-1.688	0.145
379M	-0.680	-0.905	0.533	-1.748	0.519	0.637	2.177	2.177	-1.748	0.076

380V	-0.661	-0.701	0.870	-1.749	0.938	0.679	2.340	2.340	-1.749	0.245
381V	-0.793	-0.809	0.683	-1.305	0.738	0.074	2.561	2.561	-1.305	0.164
382F	-0.749	-1.119	1.057	-0.513	1.002	0.676	2.206	2.206	-1.119	0.366
383Q	-1.065	-0.090	0.982	0.336	0.966	0.664	2.696	2.696	-1.065	0.641
384P	-0.951	0.233	1.356	0.888	1.212	0.682	2.439	2.439	-0.951	0.837
385H	-0.307	0.365	1.627	1.008	1.376	0.700	2.010	2.010	-0.307	0.969
386L	0.541	1.107	2.122	0.576	1.895	1.321	1.758	2.122	0.541	1.331
387Y	0.490	1.311	1.991	0.141	1.677	1.298	1.636	1.991	0.141	1.221
388S	0.718	1.543	2.197	-0.317	2.041	1.874	1.481	2.197	-0.317	1.362
389R	0.718	0.688	2.038	-0.816	1.868	1.254	0.203	2.038	-0.816	0.850
390T	0.718	-0.126	2.057	-1.114	1.813	1.253	0.020	2.057	-1.114	0.660
391K	0.971	-0.042	1.804	-1.380	1.576	1.233	-1.323	1.804	-1.380	0.406
392A	0.692	-1.047	1.655	-1.592	1.422	1.213	-2.492	1.655	-2.492	-0.021
393F	0.920	-0.420	1.552	-1.598	1.312	1.188	-2.518	1.552	-2.518	0.062
394A	0.010	0.568	1.290	-1.661	1.112	1.172	-2.307	1.290	-2.307	0.026
395A	0.010	0.568	0.832	-1.670	0.428	0.578	-2.372	0.832	-2.372	-0.232
396E	0.142	0.363	1.262	-1.637	0.902	1.202	-1.363	1.262	-1.637	0.125
397F	0.857	0.397	1.328	-1.679	0.948	1.198	-2.624	1.328	-2.624	0.061
398G	0.142	0.572	1.244	-1.805	0.957	1.204	-1.179	1.244	-1.805	0.162
399R	0.452	-0.056	1.543	-1.586	1.267	1.244	-0.282	1.543	-1.586	0.369
400A	0.092	-0.330	1.216	-1.217	0.902	0.645	-1.266	1.216	-1.266	0.006
401L	0.806	0.245	1.281	-0.568	0.948	0.641	-2.527	1.281	-2.527	0.118
402N	1.078	0.353	1.561	0.055	1.312	1.129	-2.536	1.561	-2.536	0.422
403A	1.306	-0.430	1.459	0.208	1.203	1.104	-2.562	1.459	-2.562	0.327
404A	0.939	-0.526	1.337	-0.051	1.194	1.106	-0.963	1.337	-0.963	0.434
405D	0.939	-0.731	1.356	-0.315	1.139	1.105	-1.147	1.356	-1.147	0.335
406E	0.263	-0.731	0.935	-0.841	0.820	1.066	-0.445	1.066	-0.841	0.152
407V	-0.452	-1.402	0.851	-1.156	0.829	1.071	1.000	1.071	-1.402	0.106
408F	0.048	-1.713	1.122	-1.155	1.148	1.560	2.001	2.001	-1.713	0.430
409V	-0.819	-0.911	0.730	-1.191	0.820	1.073	2.599	2.599	-1.191	0.329
410L	-1.432	-0.815	0.655	-0.835	0.692	0.492	2.957	2.957	-1.432	0.245
411D	-0.838	0.203	0.767	-0.672	0.656	0.491	2.369	2.369	-0.838	0.425
412V	-0.123	0.239	0.832	-0.794	0.701	0.487	1.108	1.108	-0.794	0.350
413Y	0.376	0.826	1.384	-1.199	1.185	1.110	0.518	1.384	-1.199	0.600
414G	1.451	1.591	1.795	-1.617	1.540	1.704	0.057	1.795	-1.617	0.932
415A	1.198	0.760	1.851	-2.011	1.595	1.257	0.229	1.851	-2.011	0.697
416R	1.565	0.760	2.216	-1.869	1.877	1.275	-0.140	2.216	-1.869	0.812
417E	1.103	0.574	1.879	-1.583	1.649	1.261	-0.037	1.879	-1.583	0.692
418Q	0.876	-0.098	1.889	-1.214	1.695	1.261	-1.047	1.889	-1.214	0.480
419P	1.103	0.267	1.879	-1.109	1.649	1.261	-0.037	1.879	-1.109	0.716
420L	0.604	0.536	1.328	-1.318	1.166	0.638	0.553	1.328	-1.318	0.501
421A	0.522	0.740	1.150	-1.398	0.957	0.058	0.739	1.150	-1.398	0.395
422G	0.503	1.595	0.814	-1.321	0.537	0.016	0.576	1.595	-1.321	0.389
423V	0.503	0.872	0.571	-1.027	0.264	-0.003	-0.654	0.872	-1.027	0.075
424S	1.495	0.968	0.804	-0.574	0.410	0.012	-0.929	1.495	-0.929	0.312
425G	1.129	0.688	0.683	-0.432	0.401	0.013	0.669	1.129	-0.432	0.450
426A	0.901	0.151	0.692	-0.481	0.446	0.013	-0.341	0.901	-0.481	0.197
427S	1.628	0.055	1.141	-0.707	0.820	0.611	-0.956	1.628	-0.956	0.370
428V	1.350	-0.310	1.150	-0.772	0.838	1.211	-0.849	1.350	-0.849	0.374
429A	0.756	-0.310	1.038	-0.753	0.875	1.212	-0.260	1.212	-0.753	0.365
430E	0.952	0.049	1.234	-0.280	1.030	1.232	0.791	1.234	-0.280	0.715
431H	0.307	-0.641	0.963	-0.132	0.866	1.214	1.220	1.220	-0.641	0.542
432V	0.673	0.083	1.328	0.029	1.148	1.231	0.851	1.328	0.029	0.763
433T	0.275	-0.228	1.318	-0.414	1.194	1.248	1.806	1.806	-0.414	0.743
434V	0.048	-0.815	1.421	-0.833	1.303	1.274	1.831	1.831	-0.833	0.604
435P	-0.205	-0.360	1.515	-1.472	1.367	0.673	1.896	1.896	-1.472	0.488
436M	-0.205	-0.180	1.515	-1.777	1.367	0.673	1.896	1.896	-1.777	0.470
437R	-0.401	-0.240	1.561	-1.891	1.485	0.672	2.075	2.075	-1.891	0.466
438Y	0.465	-0.198	1.954	-1.391	1.813	1.159	1.477	1.954	-1.391	0.754

439V	-0.250	0.209	1.646	-0.667	1.494	1.145	1.509	1.646	-0.667	0.727
440P	0.427	0.209	1.804	0.375	1.604	1.148	1.724	1.804	0.209	1.042
441D	0.294	-0.150	1.375	0.937	1.130	0.523	0.714	1.375	-0.150	0.689
442F	0.180	-0.198	1.001	0.904	0.884	0.505	0.971	1.001	-0.198	0.607
443S	0.547	0.467	1.122	0.289	0.893	0.504	-0.628	1.122	-0.628	0.456
444A	0.794	-0.484	1.206	-0.501	0.993	0.527	-0.684	1.206	-0.684	0.264
445V	0.541	-0.484	1.262	-1.129	1.048	0.080	-0.512	1.262	-1.129	0.115
446A	0.888	-0.388	1.206	-1.255	1.084	0.078	-0.175	1.206	-1.255	0.206
447Q	0.610	-0.388	1.057	-1.270	0.929	0.058	-1.344	1.057	-1.344	-0.050
448Q	0.610	-0.879	1.057	-1.272	0.929	0.058	-1.344	1.057	-1.344	-0.120
449V	0.977	-0.514	1.178	-1.519	0.938	0.056	-2.943	1.178	-2.943	-0.261
450A	0.977	-0.060	1.178	-1.832	0.938	0.056	-2.943	1.178	-2.943	-0.241
451A	1.009	0.568	1.001	-1.809	0.720	0.034	-2.947	1.009	-2.947	-0.204
452A	0.762	1.107	0.917	-1.421	0.619	0.010	-2.890	1.107	-2.890	-0.128
453A	1.356	1.010	1.029	-0.747	0.583	0.009	-3.479	1.356	-3.479	-0.034
454S	1.856	0.686	1.300	0.039	0.902	0.498	-2.477	1.856	-2.477	0.400
455P	1.489	-0.266	1.178	0.397	0.893	0.499	-0.879	1.489	-0.879	0.473
456G	0.850	-0.134	1.038	0.275	0.875	0.501	0.453	1.038	-0.134	0.551
457D	0.484	-0.875	0.917	-0.284	0.866	0.503	2.052	2.052	-0.875	0.523
458V	0.402	-0.787	0.963	-1.014	0.866	0.503	1.933	1.933	-1.014	0.409
459I	0.003	-0.691	0.711	-1.699	0.638	0.501	1.658	1.658	-1.699	0.160
460V	0.003	0.261	0.711	-1.895	0.638	0.501	1.658	1.658	-1.895	0.268
461T	-0.496	0.896	0.440	-2.065	0.319	0.012	0.657	0.896	-2.065	-0.034
462M	0.098	0.309	0.552	-1.996	0.282	0.010	0.068	0.552	-1.996	-0.097
463G	1.236	0.914	0.963	-1.703	0.619	0.497	-0.262	1.236	-1.703	0.324
464A	1.236	0.083	0.963	-1.332	0.619	0.497	-0.262	1.236	-1.332	0.258
465G	1.236	-0.122	0.963	-0.780	0.619	0.497	-0.262	1.236	-0.780	0.307
466D	0.920	-0.122	0.889	-0.442	0.583	0.486	0.228	0.920	-0.442	0.363
467V	-0.022	-0.302	0.814	-0.552	0.638	0.491	0.662	0.814	-0.552	0.247
468T	0.206	0.369	0.804	-1.036	0.592	0.491	1.673	1.673	-1.036	0.443
469L	-0.022	-0.446	1.057	-1.346	0.911	0.510	1.893	1.893	-1.346	0.365
470L	-0.161	-0.446	1.113	-1.609	0.957	0.621	1.875	1.875	-1.609	0.336
471G	-0.433	0.249	1.094	-1.511	0.948	0.621	1.608	1.608	-1.511	0.368
472P	-1.343	-0.378	0.814	-1.641	0.802	0.606	2.002	2.002	-1.641	0.123
473E	-0.433	-0.941	1.094	-1.793	0.948	0.621	1.608	1.608	-1.793	0.158
474I	0.281	-0.703	1.178	-2.018	0.938	0.616	0.163	1.178	-2.018	0.065
475L	-0.661	-0.474	1.103	-2.014	0.993	0.621	0.598	1.103	-2.014	0.024
476T	-0.528	0.544	1.290	-2.009	1.194	1.227	0.377	1.290	-2.009	0.299
477A	-1.255	0.053	0.842	-2.021	0.820	0.629	0.992	0.992	-2.021	0.008
478L	-0.484	0.662	1.412	-2.245	1.312	1.252	0.669	1.412	-2.245	0.368
479R	0.231	1.680	1.496	-2.446	1.303	1.246	-0.776	1.680	-2.446	0.391
480V	0.345	1.722	1.599	-2.112	1.458	1.267	-0.929	1.722	-2.112	0.478
481R	0.477	1.818	2.029	-1.513	1.932	1.891	0.080	2.029	-1.513	0.959
482A	1.470	1.363	2.262	-0.435	2.078	1.906	-0.195	2.262	-0.435	1.207
483N	1.337	1.990	1.832	0.214	1.604	1.281	-1.205	1.990	-1.205	1.008
484R	1.704	2.194	2.197	0.564	1.886	1.299	-1.573	2.197	-1.573	1.182
485S	1.799	1.740	1.758	0.284	1.367	0.674	-1.572	1.799	-1.572	0.864
486A	1.932	1.511	2.188	-0.092	1.841	1.299	-0.563	2.188	-0.563	1.159
487P	1.622	1.415	2.132	-0.652	1.804	1.277	-0.230	2.132	-0.652	1.053
488G	1.717	0.852	1.692	-0.840	1.285	0.653	-0.229	1.717	-0.840	0.733
489R	1.072	0.852	1.421	-1.117	1.121	0.634	0.200	1.421	-1.117	0.598
490P	0.357	0.293	1.337	-1.228	1.130	0.639	1.645	1.645	-1.228	0.596
491G	0.585	0.189	1.085	-1.469	0.811	0.620	1.425	1.425	-1.469	0.464
492V	0.225	-0.184	0.636	-1.660	1.175	0.681	0.415	1.175	-1.660	0.184
493L	-0.041	0.167	-0.252	-1.626	1.020	0.116	-0.594	1.020	-1.626	-0.173
494G	-0.174	0.626	-0.953	-1.425	1.066	0.157	-1.824	1.066	-1.824	-0.361

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	[1]VSTEQLPPDLRRVHMVGIGGAGMSGIARILLDRGGLVSGSDAKESRGVHALRARGALIRIGHD ASSLDLLPGGATAVVTTHAAIPKTNPELVEARRRGIPVVLRPAVLAKLMAGRTTLMVTGTHGKTT TTSMLIVALQHCGLDPSFAVGGELGEAGTNAHHGSGDCFVAEADESDGSLLQYTPHVAVITNIE SDHLDFYGSVEAYVAVFDSFVERIVPGGALVVCTDDPGGAALAQRATELGIRVLRYGSVPGETM AATLVSWQQQGVGAVAHIRLASELATAQGPRVMRLSVPGRHMALNALGALLAAVQIGAPADEV LDGLAGFEGVRRRFELVGTCGVGKASVRVFDDYAHHPTEISATLAAARMVLEQGDGGRCMVV FQPHLYSRTKAFAAEFGRALNAADEVFVLDVYGAREQPLAGVSGASVAEHVTVPMRYVPDFSA VAQQVAAAASPGDVIVTMGAGDVTLLGPEILTALRVRANRSAPGRPGVLG[494]
Hydrophilicity	[1]VSTEQLPPDLRRVHMVGIGGAGMSGIARILLDRGGLVSGSDAKESRGVHALRARGALIRIGHD ASSLDLLPGGATAVVTTHAAIPKTNPELVEARRRGIPVVLRPAVLAKLMAGRTTLMVTGTHGKTT TTSMLIVALQHCGLDPSFAVGGELGEAGTNAHHGSGDCFVAEADESDGSLLQYTPHVAVITNIE SDHLDFYGSVEAYVAVFDSFVERIVPGGALVVCTDDPGGAALAQRATELGIRVLRYGSVPGETM AATLVSWQQQGVGAVAHIRLASELATAQGPRVMRLSVPGRHMALNALGALLAAVQIGAPADEV LDGLAGFEGVRRRFELVGTCGVGKASVRVFDDYAHHPTEISATLAAARMVLEQGDGGRCMVV FQPHLYSRTKAFAAEFGRALNAADEVFVLDVYGAREQPLAGVSGASVAEHVTVPMRYVPDFSA VAQQVAAAASPGDVIVTMGAGDVTLLGPEILTALRVRANRSAPGRPGVLG[494]
Flexibility	[1]VSTEQLPPDLRRVHMVGIGGAGMSGIARILLDRGGLVSGSDAKESRGVHALRARGALIRIGHD ASSLDLLPGGATAVVTTHAAIPKTNPELVEARRRGIPVVLRPAVLAKLMAGRTTLMVTGTHGKTT TTSMLIVALQHCGLDPSFAVGGELGEAGTNAHHGSGDCFVAEADESDGSLLQYTPHVAVITNIE SDHLDFYGSVEAYVAVFDSFVERIVPGGALVVCTDDPGGAALAQRATELGIRVLRYGSVPGETM AATLVSWQQQGVGAVAHIRLASELATAQGPRVMRLSVPGRHMALNALGALLAAVQIGAPADEV LDGLAGFEGVRRRFELVGTCGVGKASVRVFDDYAHHPTEISATLAAARMVLEQGDGGRCMVV FQPHLYSRTKAFAAEFGRALNAADEVFVLDVYGAREQPLAGVSGASVAEHVTVPMRYVPDFSA VAQQVAAAASPGDVIVTMGAGDVTLLGPEILTALRVRANRSAPGRPGVLG[494]
Accessibility	[1]VSTEQLPPDLRRVHMVGIGGAGMSGIARILLDRGGLVSGSDAKESRGVHALRARGALIRIGHD ASSLDLLPGGATAVVTTHAAIPKTNPELVEARRRGIPVVLRPAVLAKLMAGRTTLMVTGTHGKTT TTSMLIVALQHCGLDPSFAVGGELGEAGTNAHHGSGDCFVAEADESDGSLLQYTPHVAVITNIE SDHLDFYGSVEAYVAVFDSFVERIVPGGALVVCTDDPGGAALAQRATELGIRVLRYGSVPGETM AATLVSWQQQGVGAVAHIRLASELATAQGPRVMRLSVPGRHMALNALGALLAAVQIGAPADEV LDGLAGFEGVRRRFELVGTCGVGKASVRVFDDYAHHPTEISATLAAARMVLEQGDGGRCMVV FQPHLYSRTKAFAAEFGRALNAADEVFVLDVYGAREQPLAGVSGASVAEHVTVPMRYVPDFSA VAQQVAAAASPGDVIVTMGAGDVTLLGPEILTALRVRANRSAPGRPGVLG[494]
Turns	[1]VSTEQLPPDLRRVHMVGIGGAGMSGIARILLDRGGLVSGSDAKESRGVHALRARGALIRIGHD ASSLDLLPGGATAVVTTHAAIPKTNPELVEARRRGIPVVLRPAVLAKLMAGRTTLMVTGTHGKTT TTSMLIVALQHCGLDPSFAVGGELGEAGTNAHHGSGDCFVAEADESDGSLLQYTPHVAVITNIE SDHLDFYGSVEAYVAVFDSFVERIVPGGALVVCTDDPGGAALAQRATELGIRVLRYGSVPGETM

TOP

	AATLVSWQQQGVGAVAHIRLASELATAQGPRVMRLSVPGRHMALNALGALLAAVQIGAPADEV LDGLAGFEGVRRRFELVGTCGVGKASVRVFDDYAHHPTEISATLAAARMVLEQGDGGRCMVV FQPHLYSRTKAFAAEFGRALNAADEVFVLDVYGAREQPLAGVSGASVAEHVTVPMRYVPDFSA VAQQVAAAASPGDVIVTMGAGDVTLLGPEILTALRVRANRSAPGRPGVLG[494]
Exposed Surface	[1]VSTEQLPPDLRRVHMVGIGGAGMSGIARILLDRGGLVSGSDAKESRGVHALRARGALIRIGHD ASSLDLLPGGATAVVTTHAAIPKTNPELVEARRRGIPVVLRPAVLAKLMAGRTTLMVTGTHGKTT TTSMLIVALQHCGLDPSFAVGGELGEAGTNAHHGSGDCFVAEADESDGSLLQYTPHVAVITNIE SDHLDFYGSVEAYVAVFDSFVERIVPGGALVVCTDDPGGAALAQRATELGIRVLRYGSVPGETM AATLVSWQQQGVGAVAHIRLASELATAQGPRVMRLSVPGRHMALNALGALLAAVQIGAPADEV LDGLAGFEGVRRRFELVGTCGVGKASVRVFDDYAHHPTEISATLAAARMVLEQGDGGRCMVV FQPHLYSRTKAFAAEFGRALNAADEVFVLDVYGAREQPLAGVSGASVAEHVTVPMRYVPDFSA VAQQVAAAASPGDVIVTMGAGDVTLLGPEILTALRVRANRSAPGRPGVLG[494]
Polarity	[1]VSTEQLPPDLRRVHMVGIGGAGMSGIARILLDRGGLVSGSDAKESRGVHALRARGALIRIGHD ASSLDLLPGGATAVVTTHAAIPKTNPELVEARRRGIPVVLRPAVLAKLMAGRTTLMVTGTHGKTT TTSMLIVALQHCGLDPSFAVGGELGEAGTNAHHGSGDCFVAEADESDGSLLQYTPHVAVITNIE SDHLDFYGSVEAYVAVFDSFVERIVPGGALVVCTDDPGGAALAQRATELGIRVLRYGSVPGETM AATLVSWQQQGVGAVAHIRLASELATAQGPRVMRLSVPGRHMALNALGALLAAVQIGAPADEV LDGLAGFEGVRRRFELVGTCGVGKASVRVFDDYAHHPTEISATLAAARMVLEQGDGGRCMVV FQPHLYSRTKAFAAEFGRALNAADEVFVLDVYGAREQPLAGVSGASVAEHVTVPMRYVPDFSA VAQQVAAAASPGDVIVTMGAGDVTLLGPEILTALRVRANRSAPGRPGVLG[494]
Antigenic Propensity	[1]VSTEQLPPDLRRVHMVGIGGAGMSGIARILLDRGGLVSGSDAKESRGVHALRARGALIRIGHD ASSLDLLPGGATAVVTTHAAIPKTNPELVEARRRGIPVVLRPAVLAKLMAGRTTLMVTGTHGKTT TTSMLIVALQHCGLDPSFAVGGELGEAGTNAHHGSGDCFVAEADESDGSLLQYTPHVAVITNIE SDHLDFYGSVEAYVAVFDSFVERIVPGGALVVCTDDPGGAALAQRATELGIRVLRYGSVPGETM AATLVSWQQQGVGAVAHIRLASELATAQGPRVMRLSVPGRHMALNALGALLAAVQIGAPADEV LDGLAGFEGVRRRFELVGTCGVGKASVRVFDDYAHHPTEISATLAAARMVLEQGDGGRCMVV FQPHLYSRTKAFAAEFGRALNAADEVFVLDVYGAREQPLAGVSGASVAEHVTVPMRYVPDFSA VAQQVAAAASPGDVIVTMGAGDVTLLGPEILTALRVRANRSAPGRPGVLG[494]

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