

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

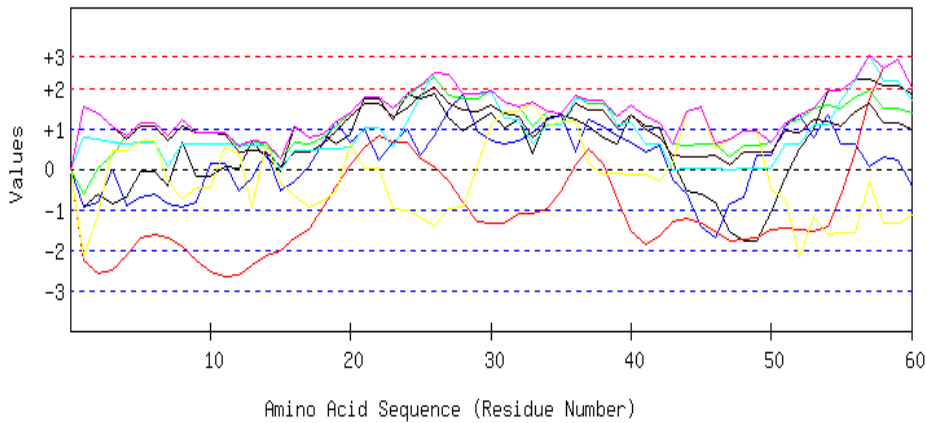
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Length=510

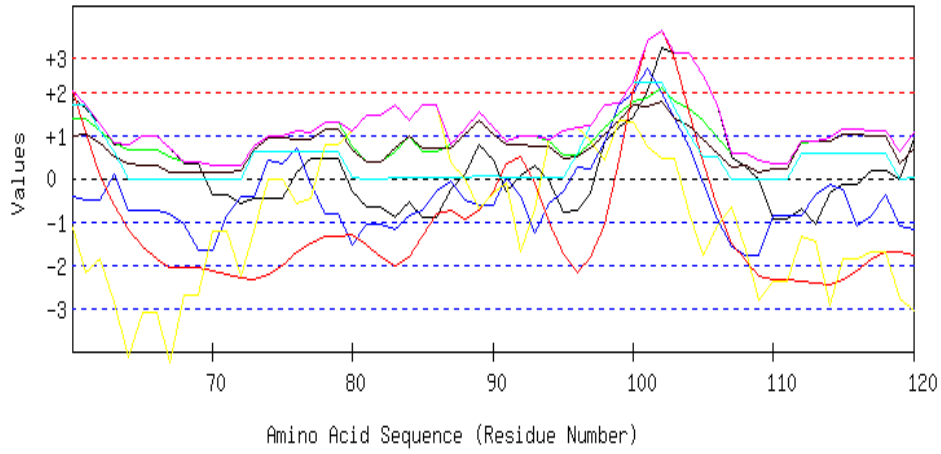
GRAPHICAL RESULT

GRAPHICAL RESULT :: SEQ 1 to 60



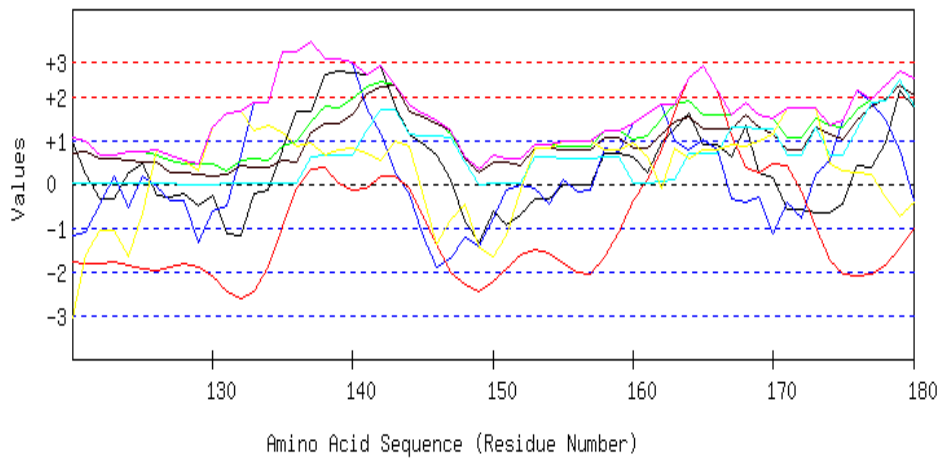
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 61 to 120



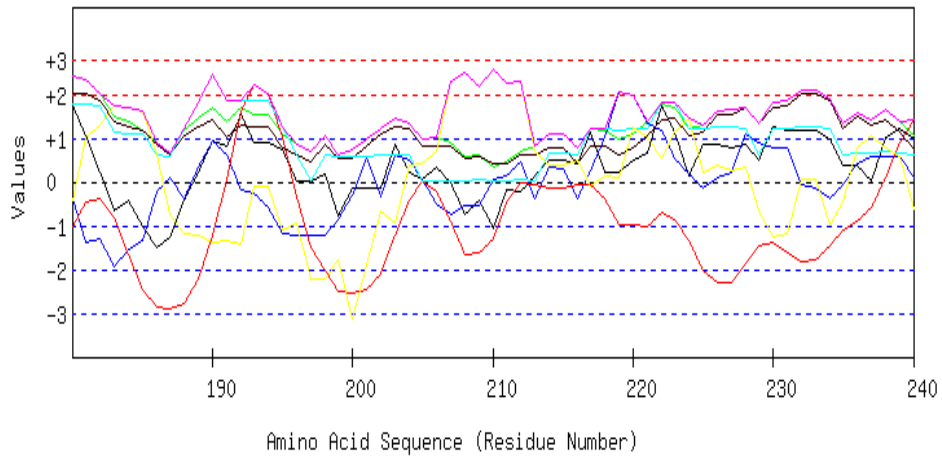
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 121 to 180



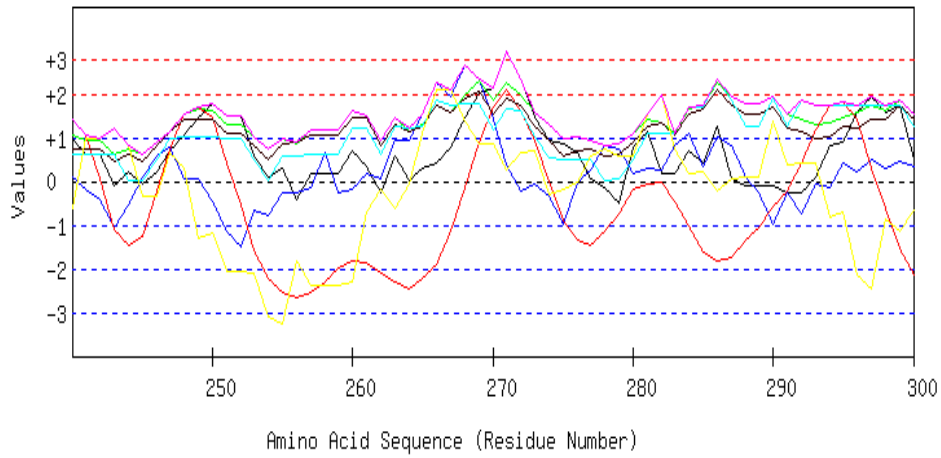
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 181 to 240



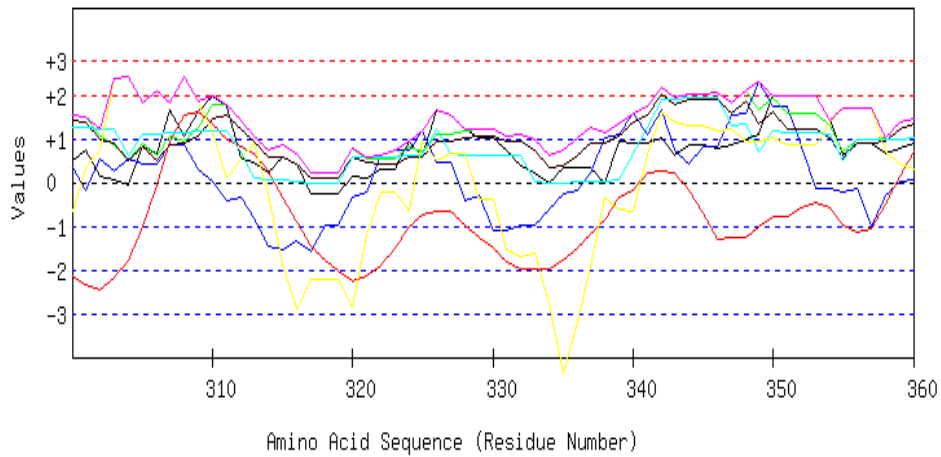
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 241 to 300



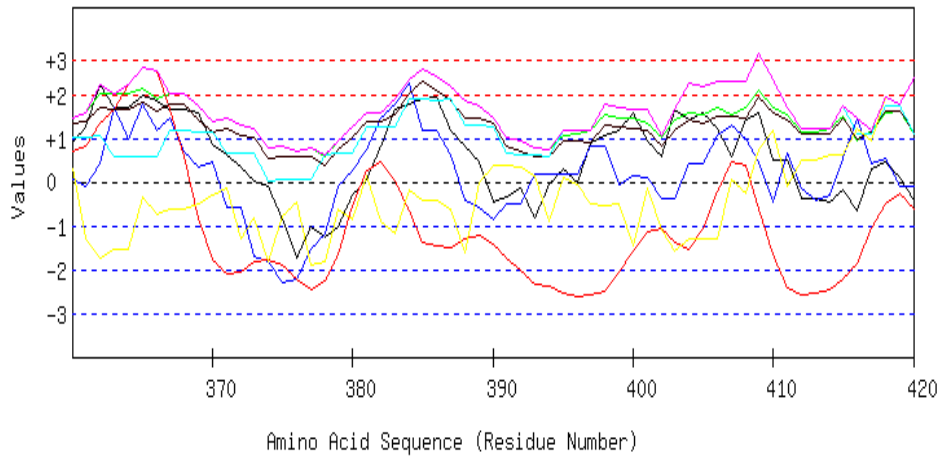
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 301 to 360



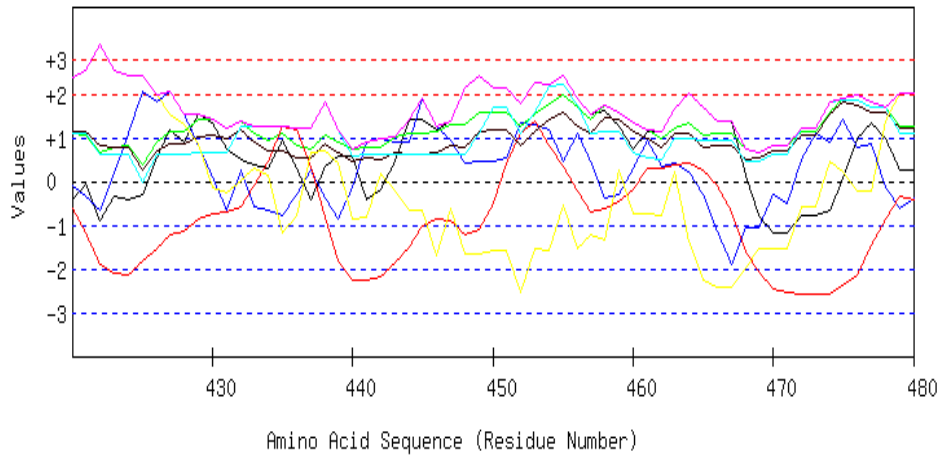
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 361 to 420



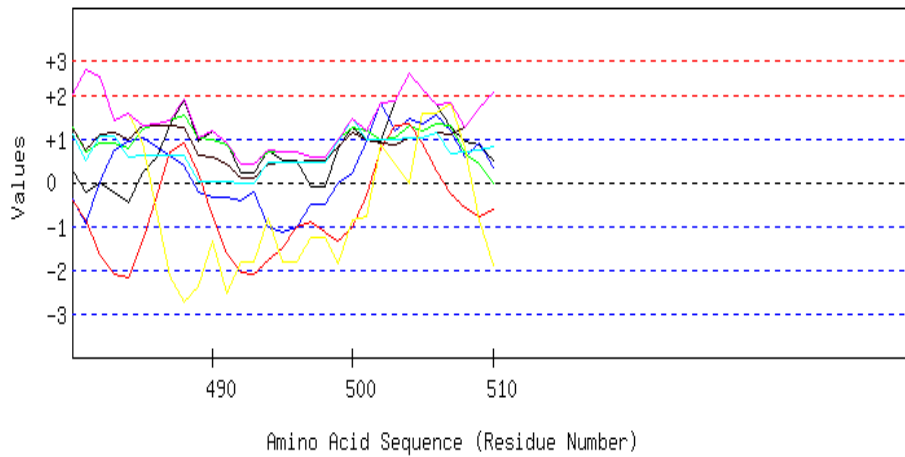
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

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

MIELTVAQIAEIVGGAVADISPQDAHRRVTGTVEFDSRAIGPGGLFLALPGARADGHDH
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VRLGVCGDHQVTNALCAAVALECGASVEQVAAALTAAPPVSRHRMQVTTRGDGVTVIDD
AYNANPDSMRAGLQALAWIAHQPEATRRSWAVLGEMAELGEDAIAEHDRIGRLAVRLDVS
RLVVVGTGRSISAMHHGAVLEGAWGSGEATADHGADRTAVNVADGDAALALLRAELRPGD
VVLVKASNAAGLGAVADALVADDTCGSVRP

Length=510

A.A.	Parameter							Combined		
	Hydro	Flexi	Access	Turns	Surface	Polar	AntiPro	MAX	MIN	AVG
1 M	-0.939	-0.947	-0.635	-2.259	1.558	0.774	-2.173	1.558	-2.259	-0.660
2 I	-0.610	-0.833	0.019	-2.562	1.394	0.734	-1.123	1.394	-2.562	-0.426
3 E	-0.844	-0.017	0.356	-2.486	1.066	0.675	0.476	1.066	-2.486	-0.111
4 L	-0.711	-0.917	0.814	-2.138	0.747	0.615	0.476	0.814	-2.138	-0.159
5 T	-0.066	-0.713	1.150	-1.719	1.075	0.641	0.695	1.150	-1.719	0.152
6 V	-0.066	-0.629	1.150	-1.606	1.075	0.641	0.695	1.150	-1.606	0.180
7 A	-0.427	-0.857	0.823	-1.698	0.711	0.041	-0.289	0.823	-1.698	-0.242
8 Q	0.648	-0.953	1.234	-1.917	1.066	0.635	-0.750	1.234	-1.917	-0.005
9 I	-0.186	-0.817	0.898	-2.276	0.893	0.617	-0.469	0.898	-2.276	-0.192
10 A	-0.186	0.135	0.898	-2.535	0.893	0.617	-0.469	0.898	-2.535	-0.093
11 E	0.041	0.135	0.889	-2.652	0.847	0.617	0.541	0.889	-2.652	0.060
12 I	0.022	-0.536	0.552	-2.640	0.428	0.575	0.378	0.575	-2.640	-0.174
13 V	0.661	-0.212	0.692	-2.387	0.446	0.573	-0.954	0.692	-2.387	-0.169
14 G	0.294	0.423	0.571	-2.157	0.437	0.574	0.645	0.645	-2.157	0.113
15 G	-0.066	-0.528	0.244	-2.032	0.073	-0.025	-0.339	0.244	-2.032	-0.382
16 A	1.072	-0.300	0.655	-1.707	0.410	0.462	-0.669	1.072	-1.707	-0.011
17 V	0.800	0.059	0.636	-1.519	0.401	0.462	-0.936	0.800	-1.519	-0.014
18 A	0.850	0.646	0.795	-0.942	0.601	0.482	-0.777	0.850	-0.942	0.237
19 D	0.623	1.185	1.047	-0.432	0.920	0.501	-0.557	1.185	-0.557	0.470
20 I	0.869	0.646	1.375	0.087	1.294	0.544	0.616	1.375	0.087	0.776
21 S	1.736	0.970	1.767	0.543	1.622	1.031	0.019	1.767	0.019	1.098
22 P	1.736	0.205	1.767	0.817	1.622	1.031	0.019	1.767	0.019	1.028
23 Q	1.236	0.660	1.496	0.644	1.303	0.542	-0.983	1.496	-0.983	0.700
24 D	1.875	0.982	1.795	0.661	1.494	1.160	-1.037	1.875	-1.037	0.990
25 A	1.729	0.347	2.075	0.275	1.813	1.765	-1.198	2.075	-1.198	0.973

26 A	1.862	0.838	2.262	0.046	2.014	2.370	-1.418	2.370	-1.418	1.139
27 H	1.249	1.465	1.814	-0.306	1.631	2.330	-0.993	2.330	-0.993	1.027
28 R	0.945	1.866	1.739	-0.827	1.467	1.861	-0.943	1.866	-0.943	0.872
29 R	1.173	0.956	1.730	-1.310	1.422	1.861	0.067	1.861	-1.310	0.843
30 V	1.369	0.718	1.926	-1.334	1.576	1.880	1.118	1.926	-1.334	1.036
31 T	1.002	0.640	1.646	-1.343	1.394	1.262	1.439	1.646	-1.343	0.863
32 G	1.230	0.688	1.543	-1.109	1.285	1.237	1.414	1.543	-1.109	0.898
33 T	0.383	0.916	1.047	-1.115	0.765	0.617	1.666	1.666	-1.115	0.611
34 V	1.249	1.239	1.440	-0.976	1.093	1.104	1.068	1.440	-0.976	0.888
35 E	1.331	1.335	1.393	-0.541	1.093	1.104	1.187	1.393	-0.541	0.986
36 F	1.236	0.435	1.832	0.118	1.613	1.729	1.186	1.832	0.118	1.164
37 D	1.040	1.237	1.636	0.496	1.458	1.709	0.135	1.709	0.135	1.102
38 S	0.768	1.056	1.617	0.140	1.449	1.709	-0.132	1.709	-0.132	0.944
39 R	0.636	0.828	1.281	-0.740	1.039	1.110	-0.105	1.281	-0.740	0.578
40 A	1.350	0.642	1.589	-1.554	1.358	1.124	-0.136	1.589	-1.554	0.625
41 I	1.078	0.437	1.309	-1.866	0.993	0.635	-0.127	1.309	-1.866	0.351
42 G	1.028	0.588	1.150	-1.653	0.793	0.615	-0.287	1.150	-1.653	0.319
43 P	0.180	-0.244	0.636	-1.315	0.328	-0.004	0.149	0.636	-1.315	-0.038
44 G	-0.534	-0.603	0.571	-1.205	0.282	0.000	1.410	1.410	-1.205	-0.011
45 G	-0.610	-1.434	0.627	-1.359	0.310	0.004	1.524	1.524	-1.434	-0.134
46 L	-0.838	-1.703	0.636	-1.525	0.355	0.004	0.513	0.636	-1.703	-0.365
47 F	-1.552	-0.871	0.309	-1.770	0.091	-0.010	0.728	0.728	-1.770	-0.439
48 L	-1.780	-0.697	0.561	-1.737	0.410	0.009	0.948	0.948	-1.780	-0.326
49 A	-1.780	0.321	0.561	-1.712	0.410	0.009	0.948	0.948	-1.780	-0.177
50 L	-1.065	0.321	0.646	-1.483	0.401	0.004	-0.497	0.646	-1.483	-0.239
51 P	-0.218	1.064	1.141	-1.444	0.920	0.624	-0.749	1.141	-1.444	0.191
52 G	0.496	1.333	1.225	-1.517	0.911	0.619	-2.194	1.333	-2.194	0.125
53 A	0.996	0.796	1.496	-1.556	1.230	1.108	-1.193	1.496	-1.556	0.411
54 R	1.938	1.335	1.571	-1.424	1.175	1.102	-1.628	1.938	-1.628	0.581
55 A	1.938	0.612	1.487	-0.674	1.075	1.703	-1.580	1.938	-1.580	0.651
56 D	2.210	0.612	1.767	0.400	1.440	2.192	-1.590	2.210	-1.590	1.004
57 G	2.210	0.073	1.926	1.737	1.613	2.812	-0.312	2.812	-0.312	1.437
58 H	2.077	0.301	1.496	2.511	1.139	2.187	-1.321	2.511	-1.321	1.199
59 D	2.077	0.211	1.496	2.696	1.139	2.187	-1.321	2.696	-1.321	1.212
60 H	1.856	-0.424	1.375	2.022	0.975	1.719	-1.153	2.022	-1.153	0.910
61 A	1.628	-0.514	1.384	1.073	1.020	1.719	-2.163	1.719	-2.163	0.592
62 A	1.261	-0.514	1.103	0.046	0.838	1.100	-1.842	1.261	-1.842	0.285
63 S	0.762	0.113	0.832	-0.603	0.519	0.611	-2.843	0.832	-2.843	-0.087
64 A	0.762	-0.743	0.674	-1.185	0.346	-0.009	-4.120	0.762	-4.120	-0.611
65 V	0.990	-0.743	0.664	-1.581	0.300	-0.009	-3.110	0.990	-3.110	-0.498
66 A	0.990	-0.743	0.664	-1.860	0.300	-0.009	-3.110	0.990	-3.110	-0.538
67 A	0.711	-0.839	0.515	-2.070	0.146	-0.029	-4.280	0.711	-4.280	-0.835
68 G	0.345	-1.043	0.393	-2.051	0.136	-0.027	-2.681	0.393	-2.681	-0.704
69 A	0.345	-1.670	0.393	-2.074	0.136	-0.027	-2.681	0.393	-2.681	-0.797
70 A	-0.370	-1.670	0.309	-2.160	0.146	-0.022	-1.236	0.309	-2.160	-0.715
71 V	-0.370	-0.857	0.309	-2.236	0.146	-0.022	-1.236	0.309	-2.236	-0.609
72 V	-0.597	-0.402	0.318	-2.309	0.191	-0.022	-2.246	0.318	-2.309	-0.724
73 L	-0.465	-0.402	0.748	-2.360	0.665	0.603	-1.237	0.748	-2.360	-0.350
74 A	-0.465	0.429	0.991	-2.207	0.938	0.622	-0.007	0.991	-2.207	0.043
75 A	-0.465	0.333	0.991	-2.016	0.938	0.622	-0.007	0.991	-2.016	0.057
76 R	0.130	0.692	1.103	-1.695	0.902	0.620	-0.595	1.103	-1.695	0.165
77 P	0.477	-0.122	1.066	-1.508	0.884	0.617	-0.442	1.066	-1.508	0.139
78 V	0.477	-0.805	1.309	-1.325	1.157	0.636	0.788	1.309	-1.325	0.320
79 G	0.477	-0.805	1.309	-1.329	1.157	0.636	0.788	1.309	-1.329	0.319
80 V	-0.294	-1.528	0.739	-1.320	0.665	0.013	1.111	1.111	-1.528	-0.088
81 P	-0.661	-1.073	0.375	-1.546	0.382	-0.005	1.480	1.480	-1.546	-0.150
82 A	-0.661	-1.073	0.375	-1.834	0.382	-0.005	1.480	1.480	-1.834	-0.191
83 I	-0.888	-1.170	0.627	-2.032	0.701	0.014	1.699	1.699	-2.032	-0.150
84 V	-0.521	-0.845	0.991	-1.804	0.984	0.032	1.331	1.331	-1.804	0.024

85 V	-0.888	-0.749	0.627	-1.341	0.701	0.014	1.699	1.699	-1.341	0.009
86 P	-0.888	-0.294	0.627	-0.836	0.701	0.014	1.699	1.699	-0.888	0.146
87 P	-0.250	-0.044	0.767	-0.741	0.720	0.012	0.368	0.767	-0.741	0.119
88 V	0.117	-0.498	1.132	-0.950	1.002	0.030	-0.001	1.132	-0.950	0.119
89 A	0.794	-0.607	1.552	-0.758	1.321	0.069	-0.703	1.552	-0.758	0.238
90 A	0.427	-0.607	1.188	-0.297	1.039	0.052	-0.334	1.188	-0.607	0.210
91 P	-0.288	0.021	0.860	0.359	0.774	0.038	-0.119	0.860	-0.288	0.235
92 N	0.079	-0.434	0.982	0.501	0.784	0.036	-1.718	0.982	-1.718	0.033
93 V	0.307	-1.248	0.973	-0.080	0.738	0.036	-0.707	0.973	-1.248	0.003
94 L	-0.060	-0.576	0.851	-1.028	0.729	0.038	0.891	0.891	-1.028	0.121
95 A	-0.774	-0.282	0.524	-1.732	0.465	0.024	1.106	1.106	-1.732	-0.096
96 G	-0.724	0.257	0.552	-2.190	0.519	0.583	1.193	1.193	-2.190	0.027
97 V	-0.357	0.239	0.832	-1.819	0.701	1.202	0.872	1.202	-1.819	0.239
98 L	0.857	0.874	1.188	-1.076	1.011	1.685	0.428	1.685	-1.076	0.710
99 E	1.167	1.706	1.487	0.402	1.321	1.726	1.325	1.726	0.402	1.305
100H	1.438	1.986	1.767	2.032	1.686	2.215	1.316	2.215	1.316	1.777
101D	2.033	2.523	1.879	3.172	1.649	2.213	0.727	3.172	0.727	2.028
102N	3.025	1.984	2.113	3.439	1.795	2.228	0.452	3.439	0.452	2.148
103D	2.893	1.375	1.776	2.766	1.385	1.628	0.479	2.893	0.479	1.757
104G	2.893	0.740	1.617	1.529	1.212	1.008	-0.799	2.893	-0.799	1.171
105S	2.393	-0.092	1.346	0.364	0.893	0.519	-1.800	2.393	-1.800	0.518
106G	1.717	-0.947	0.926	-0.666	0.574	0.480	-1.098	1.717	-1.098	0.141
107A	0.503	-1.574	0.571	-1.481	0.264	-0.003	-0.654	0.571	-1.574	-0.339
108A	0.275	-1.779	0.580	-1.917	0.310	-0.003	-1.665	0.580	-1.917	-0.600
109V	-0.003	-1.779	0.431	-2.264	0.155	-0.023	-2.835	0.431	-2.835	-0.903
110L	-0.945	-0.851	0.356	-2.334	0.209	-0.018	-2.400	0.356	-2.400	-0.855
111A	-0.945	-0.851	0.356	-2.344	0.209	-0.018	-2.400	0.356	-2.400	-0.856
112A	-0.717	-0.851	0.804	-2.372	0.847	0.577	-1.325	0.847	-2.372	-0.434
113L	-1.065	-0.360	0.842	-2.417	0.866	0.581	-1.479	0.866	-2.417	-0.433
114A	-0.351	-0.156	0.926	-2.458	0.856	0.575	-2.924	0.926	-2.924	-0.504
115K	-0.155	-0.252	1.122	-2.345	1.011	0.595	-1.873	1.122	-2.345	-0.271
116L	-0.155	-1.083	1.122	-2.151	1.011	0.595	-1.873	1.122	-2.151	-0.362
117A	0.193	-0.879	1.085	-1.849	0.993	0.591	-1.719	1.085	-1.849	-0.226
118T	0.193	-0.388	1.085	-1.693	0.993	0.591	-1.719	1.085	-1.719	-0.134
119A	-0.035	-1.083	0.636	-1.715	0.355	-0.003	-2.794	0.636	-2.794	-0.663
120V	0.926	-1.180	1.047	-1.791	0.720	0.034	-3.066	1.047	-3.066	-0.473
121A	0.212	-1.083	0.963	-1.839	0.729	0.039	-1.621	0.963	-1.839	-0.371
122A	-0.351	-0.456	0.646	-1.820	0.565	0.021	-1.073	0.646	-1.820	-0.353
123Q	-0.351	0.171	0.646	-1.794	0.565	0.021	-1.073	0.646	-1.794	-0.259
124L	0.244	-0.524	0.758	-1.848	0.528	0.019	-1.661	0.758	-1.848	-0.355
125V	0.471	0.171	0.748	-1.947	0.483	0.019	-0.651	0.748	-1.947	-0.101
126A	-0.243	-0.058	0.664	-1.978	0.492	0.025	0.794	0.794	-1.978	-0.043
127G	-0.294	-0.382	0.533	-1.884	0.273	0.002	0.672	0.672	-1.884	-0.154
128G	-0.218	-0.382	0.477	-1.827	0.246	-0.001	0.558	0.558	-1.827	-0.164
129L	-0.490	-1.334	0.459	-1.894	0.237	-0.001	0.291	0.459	-1.894	-0.390
130T	-0.262	-0.639	0.449	-2.108	0.191	-0.001	1.302	1.302	-2.108	-0.152
131I	-1.128	-0.502	0.318	-2.466	0.218	0.001	1.623	1.623	-2.466	-0.277
132I	-1.160	0.678	0.524	-2.605	0.419	0.021	1.664	1.664	-2.605	-0.066
133G	-0.218	1.858	0.599	-2.475	0.364	0.015	1.229	1.858	-2.475	0.196
134I	-0.136	1.858	0.552	-1.912	0.364	0.015	1.348	1.858	-1.912	0.299
135T	0.781	3.014	0.842	-0.995	0.537	0.034	1.186	3.014	-0.995	0.771
136G	1.647	3.014	0.973	-0.084	0.510	0.032	0.865	3.014	-0.084	0.994
137S	1.647	3.242	1.431	0.352	1.194	0.626	0.930	3.242	0.352	1.346
138S	2.482	2.878	1.767	0.377	1.367	0.644	0.649	2.878	0.377	1.452
139G	2.564	2.854	1.720	0.015	1.367	0.645	0.768	2.854	0.015	1.419
140K	2.532	2.766	1.926	-0.134	1.567	0.665	0.808	2.766	-0.134	1.447
141T	2.482	1.730	2.225	-0.116	2.050	1.239	0.713	2.482	-0.116	1.475
142S	2.703	1.125	2.346	0.190	2.214	1.708	0.545	2.703	0.190	1.547
143T	1.761	0.269	2.272	0.192	2.269	1.713	0.979	2.272	0.192	1.351

144K	1.135	-0.222	1.814	-0.088	1.677	1.136	0.859	1.814	-0.222	0.902
145D	0.939	-1.150	1.617	-0.692	1.522	1.116	-0.192	1.617	-1.150	0.452
146L	0.661	-1.893	1.468	-1.398	1.367	1.096	-1.362	1.468	-1.893	-0.009
147M	0.098	-1.688	1.150	-2.017	1.203	1.078	-0.814	1.203	-2.017	-0.142
148A	-0.844	-1.216	0.618	-2.288	0.574	0.488	-0.444	0.618	-2.288	-0.444
149A	-1.343	-1.420	0.346	-2.462	0.255	-0.001	-1.445	0.346	-2.462	-0.867
150V	-0.629	-0.793	0.674	-2.201	0.519	0.013	-1.660	0.674	-2.201	-0.582
151L	-0.945	-0.122	0.599	-1.941	0.483	0.001	-1.170	0.599	-1.941	-0.442
152A	-0.717	-0.013	0.589	-1.634	0.437	0.001	-0.160	0.589	-1.634	-0.214
153P	-0.357	-0.110	0.917	-1.500	0.802	0.601	0.824	0.917	-1.500	0.168
154L	-0.357	-0.468	0.917	-1.560	0.802	0.601	0.824	0.917	-1.560	0.108
155G	-0.009	0.095	0.879	-1.818	0.784	0.597	0.978	0.978	-1.818	0.215
156E	-0.009	-0.174	0.879	-2.028	0.784	0.597	0.978	0.978	-2.028	0.147
157V	-0.009	-0.122	0.879	-2.046	0.784	0.597	0.978	0.978	-2.046	0.152
158V	0.705	0.830	1.206	-1.640	1.048	0.610	0.763	1.206	-1.640	0.503
159A	0.705	0.752	1.206	-1.114	1.048	0.610	0.763	1.206	-1.114	0.567
160P	0.623	1.361	1.029	-0.393	0.838	0.031	0.949	1.361	-0.393	0.634
161P	0.275	1.611	1.085	0.104	0.802	0.034	0.612	1.611	0.034	0.646
162G	0.952	1.828	1.505	0.776	1.121	0.073	-0.090	1.828	-0.090	0.881
163S	1.261	0.996	1.804	1.647	1.431	0.113	0.807	1.804	0.113	1.151
164F	1.622	0.768	1.889	2.423	1.522	0.694	0.561	2.423	0.561	1.354
165N	0.907	1.032	1.561	2.703	1.257	0.680	0.776	2.703	0.680	1.274
166N	0.907	0.782	1.561	2.135	1.257	0.680	0.776	2.135	0.680	1.157
167E	0.629	-0.330	1.571	1.090	1.276	1.280	0.883	1.571	-0.330	0.914
168L	1.344	-0.414	1.879	0.370	1.595	1.295	0.852	1.879	-0.414	0.989
169G	0.269	-0.306	1.599	0.252	1.303	1.279	0.987	1.599	-0.306	0.769
170H	0.155	-1.138	1.496	0.464	1.148	1.259	1.141	1.496	-1.138	0.647
171P	-0.572	-0.414	1.047	0.440	0.774	0.661	1.756	1.756	-0.572	0.527
172W	-0.572	-0.773	1.047	-0.176	0.774	0.661	1.756	1.756	-0.773	0.388
173T	-0.667	0.221	1.487	-0.981	1.294	1.285	1.755	1.755	-0.981	0.628
174V	-0.667	0.544	1.328	-1.754	1.121	0.666	0.477	1.328	-1.754	0.245
175L	-0.471	1.453	1.281	-2.070	1.002	0.667	0.298	1.453	-2.070	0.309
176R	0.427	2.148	1.692	-2.096	1.458	1.266	0.275	2.148	-2.096	0.739
177A	0.364	1.874	1.926	-2.040	1.777	1.871	0.234	1.926	-2.040	0.858
178T	0.926	1.467	2.244	-1.845	1.941	1.889	-0.314	2.244	-1.845	0.901
179R	2.140	0.772	2.599	-1.479	2.251	2.373	-0.758	2.599	-1.479	1.128
180R	1.755	-0.366	2.421	-1.008	2.014	1.767	-0.425	2.421	-1.008	0.880
181T	1.040	-1.384	2.337	-0.456	2.023	1.773	1.020	2.337	-1.384	0.908
182D	0.206	-1.300	2.001	-0.385	1.850	1.755	1.301	2.001	-1.300	0.775
183Y	-0.642	-1.953	1.487	-0.822	1.385	1.135	1.736	1.736	-1.953	0.332
184L	-0.414	-1.546	1.384	-1.669	1.276	1.110	1.711	1.711	-1.669	0.265
185I	-1.008	-1.342	1.178	-2.450	1.166	1.107	1.615	1.615	-2.450	0.038
186L	-1.508	-0.204	0.907	-2.874	0.847	0.619	0.614	0.907	-2.874	-0.228
187E	-1.255	0.091	0.655	-2.890	0.610	0.599	-0.728	0.655	-2.890	-0.417
188M	-0.408	-0.394	1.169	-2.798	1.075	1.218	-1.164	1.218	-2.798	-0.186
189A	0.231	0.347	1.468	-2.238	1.267	1.837	-1.218	1.837	-2.238	0.242
190A	0.945	0.956	1.711	-1.211	1.431	2.451	-1.386	2.451	-1.386	0.700
191R	0.813	0.632	1.375	0.076	1.020	1.851	-1.360	1.851	-1.360	0.630
192H	1.521	-0.182	1.683	1.612	1.285	1.875	-1.417	1.875	-1.417	0.911
193H	0.882	-0.272	1.543	2.206	1.267	1.877	-0.086	2.206	-0.272	1.059
194G	0.882	-0.566	1.543	2.005	1.267	1.877	-0.086	2.005	-0.566	0.989
195N	0.749	-1.194	1.113	1.001	0.793	1.252	-1.095	1.252	-1.194	0.374
196I	0.035	-1.228	0.870	-0.328	0.629	0.638	-0.927	0.870	-1.228	-0.045
197A	0.035	-1.228	0.711	-1.513	0.455	0.018	-2.205	0.711	-2.205	-0.532
198A	0.168	-1.228	1.047	-2.021	0.866	0.617	-2.231	1.047	-2.231	-0.397
199L	-0.781	-0.869	0.608	-2.508	0.537	0.578	-1.797	0.608	-2.508	-0.604
200A	-0.142	-0.306	0.748	-2.534	0.556	0.577	-3.128	0.748	-3.128	-0.604
201E	-0.142	0.550	0.991	-2.468	0.829	0.596	-1.898	0.991	-2.468	-0.220
202I	-0.142	-0.350	1.234	-2.089	1.103	0.615	-0.668	1.234	-2.089	-0.043

203A	0.850	0.602	1.468	-1.219	1.248	0.629	-0.943	1.468	-1.219	0.376
204P	0.212	0.505	1.328	-0.436	1.230	0.631	0.388	1.328	-0.436	0.551
205P	0.079	0.051	0.991	0.035	0.820	0.031	0.415	0.991	0.031	0.346
206S	0.351	-0.512	1.010	-0.220	0.829	0.031	0.682	1.010	-0.512	0.310
207I	-0.016	-0.759	0.889	-0.892	0.820	0.033	2.281	2.281	-0.892	0.337
208G	-0.730	-0.530	0.561	-1.673	0.556	0.019	2.496	2.496	-1.673	0.100
209V	-0.420	-0.530	0.618	-1.612	0.592	0.041	2.163	2.163	-1.612	0.122
210V	-1.065	0.057	0.346	-1.298	0.428	0.022	2.592	2.592	-1.298	0.155
211L	-0.199	0.153	0.477	-0.472	0.401	0.021	2.271	2.271	-0.472	0.379
212N	-0.231	0.447	0.683	-0.030	0.601	0.040	2.311	2.311	-0.231	0.546
213V	0.136	-0.366	0.804	-0.056	0.610	0.039	0.712	0.804	-0.366	0.268
214G	0.503	0.357	1.085	-0.126	0.793	0.657	0.391	1.085	-0.126	0.523
215T	0.503	0.305	1.085	-0.124	0.793	0.657	0.391	1.085	-0.124	0.516
216A	0.421	-0.360	0.776	-0.054	0.437	0.617	0.504	0.776	-0.360	0.334
217H	1.148	0.267	1.225	-0.069	0.811	1.215	-0.111	1.225	-0.111	0.641
218L	0.206	1.032	1.169	-0.371	0.811	1.219	0.140	1.219	-0.371	0.601
219G	0.237	2.050	0.963	-0.983	0.610	1.199	0.099	2.050	-0.983	0.597
220E	0.515	1.998	1.113	-0.972	0.765	1.219	1.269	1.998	-0.972	0.844
221F	0.648	1.327	1.384	-1.001	1.066	1.224	1.001	1.384	-1.001	0.807
222G	1.723	1.177	1.795	-0.685	1.422	1.818	0.540	1.818	-0.685	1.113
223S	1.129	0.550	1.683	-0.843	1.458	1.819	1.128	1.819	-0.843	0.989
224R	0.130	0.185	1.216	-1.328	1.075	1.222	1.476	1.476	-1.328	0.568
225E	0.844	-0.138	1.281	-2.008	1.121	1.218	0.215	1.281	-2.008	0.362
226V	0.863	0.119	1.617	-2.314	1.540	1.260	0.378	1.617	-2.314	0.495
227I	0.781	0.215	1.664	-2.287	1.540	1.260	0.259	1.664	-2.287	0.490
228A	0.876	1.115	1.683	-1.858	1.704	1.230	0.325	1.704	-1.858	0.725
229Q	0.515	0.910	1.356	-1.453	1.339	0.630	-0.659	1.356	-1.453	0.377
230T	1.242	0.778	1.804	-1.395	1.713	1.228	-1.274	1.804	-1.395	0.585
231K	1.167	0.778	1.860	-1.628	1.741	1.232	-1.161	1.860	-1.628	0.570
232A	1.167	-0.054	2.103	-1.832	2.014	1.251	0.069	2.103	-1.832	0.674
233E	1.167	-0.150	2.103	-1.776	2.014	1.251	0.069	2.103	-1.776	0.668
234L	0.971	-0.366	1.907	-1.456	1.859	1.231	-0.981	1.907	-1.456	0.452
235P	0.376	-0.072	1.337	-1.100	1.212	0.638	-0.458	1.337	-1.100	0.276
236Q	0.376	0.425	1.580	-0.906	1.485	0.657	0.772	1.580	-0.906	0.627
237A	0.016	0.562	1.412	-0.588	1.294	0.677	1.066	1.412	-0.588	0.634
238V	1.009	0.562	1.646	0.092	1.440	0.692	0.791	1.646	0.092	0.890
239P	1.236	0.562	1.393	0.903	1.121	0.673	0.571	1.393	0.562	0.923
240H	0.990	0.107	1.066	1.401	0.747	0.630	-0.602	1.401	-0.602	0.620
241S	0.623	-0.188	0.945	1.075	0.738	0.632	0.997	1.075	-0.188	0.689
242G	0.623	-0.434	0.945	0.049	0.738	0.632	0.997	0.997	-0.434	0.507
243A	-0.092	-1.061	0.618	-1.109	0.474	0.618	1.212	1.212	-1.109	0.094
244V	0.218	-0.522	0.758	-1.462	0.610	0.039	0.831	0.831	-1.462	0.067
245V	-0.060	0.113	0.608	-1.241	0.455	0.019	-0.339	0.608	-1.241	-0.064
246L	0.212	0.568	0.889	-0.222	0.820	0.508	-0.348	0.889	-0.348	0.347
247N	0.711	0.772	1.160	0.755	1.139	0.997	0.653	1.160	0.653	0.884
248A	1.078	0.067	1.524	1.552	1.422	1.014	0.284	1.552	0.067	0.992
249D	1.445	0.067	1.646	1.716	1.431	1.013	-1.314	1.716	-1.314	0.857
250D	1.793	-0.472	1.608	1.458	1.412	1.009	-1.161	1.793	-1.161	0.807
251P	1.483	-1.125	1.309	0.421	1.103	0.968	-2.058	1.483	-2.058	0.300
252A	1.483	-1.484	1.309	-0.543	1.103	0.968	-2.058	1.483	-2.058	0.111
253V	0.585	-0.653	1.029	-1.583	0.829	0.496	-2.104	1.029	-2.104	-0.200
254A	0.085	-0.761	0.758	-2.201	0.510	0.008	-3.105	0.758	-3.105	-0.672
255A	0.313	-0.270	0.963	-2.540	0.875	0.583	-3.260	0.963	-3.260	-0.477
256M	-0.401	-0.270	0.879	-2.651	0.884	0.589	-1.815	0.884	-2.651	-0.398
257A	0.161	-0.156	1.197	-2.547	1.048	0.607	-2.363	1.197	-2.547	-0.293
258K	0.161	0.658	1.197	-2.314	1.048	0.607	-2.363	1.197	-2.363	-0.144
259L	0.161	-0.270	1.197	-1.997	1.048	0.607	-2.363	1.197	-2.363	-0.231
260T	0.692	-0.162	1.636	-1.809	1.476	1.215	-2.309	1.636	-2.309	0.106
261A	0.326	0.161	1.515	-1.864	1.467	1.216	-0.710	1.515	-1.864	0.302

262A	-0.269	0.065	0.945	-2.090	0.820	0.623	-0.186	0.945	-2.090	-0.013
263R	0.579	0.920	1.459	-2.304	1.285	1.242	-0.622	1.459	-2.304	0.366
264V	0.016	0.920	1.141	-2.474	1.121	1.224	-0.074	1.224	-2.474	0.268
265V	0.294	1.555	1.290	-2.213	1.276	1.244	1.096	1.555	-2.213	0.649
266R	0.427	2.261	1.720	-1.910	1.750	1.869	2.105	2.261	-1.910	1.174
267V	0.794	1.938	1.561	-1.156	1.595	1.733	2.097	2.097	-1.156	1.223
268S	1.470	2.661	1.982	-0.150	1.914	1.772	1.395	2.661	-0.150	1.578
269R	2.033	2.345	2.300	0.910	2.078	1.790	0.847	2.345	0.847	1.758
270D	2.128	1.435	1.860	1.686	1.558	1.166	0.849	2.128	0.849	1.526
271N	2.994	0.393	2.253	2.095	1.886	1.653	0.251	2.994	0.251	1.646
272T	2.349	-0.216	1.982	1.603	1.722	1.634	0.680	2.349	-0.216	1.393
273G	1.451	-0.080	1.571	0.927	1.267	1.035	0.703	1.571	-0.080	0.982
274D	0.952	-0.348	1.300	-0.022	0.948	0.546	-0.298	1.300	-0.348	0.440
275V	0.869	-0.983	0.991	-0.889	0.592	0.506	-0.185	0.991	-0.983	0.129
276W	0.673	-0.032	1.038	-1.340	0.711	0.505	-0.006	1.038	-1.340	0.221
277A	0.079	0.267	0.926	-1.457	0.747	0.506	0.583	0.926	-1.457	0.236
278G	-0.142	0.806	0.804	-1.157	0.583	0.037	0.751	0.806	-1.157	0.240
279P	-0.490	0.754	0.842	-0.753	0.601	0.041	0.598	0.842	-0.753	0.228
280V	0.775	0.191	1.094	-0.194	0.902	0.505	0.566	1.094	-0.194	0.548
281S	1.135	0.287	1.421	-0.047	1.267	1.104	1.550	1.550	-0.047	0.960
282L	0.193	0.245	1.346	-0.019	1.321	1.110	1.985	1.985	-0.019	0.883
283D	0.193	0.808	1.103	-0.475	1.048	1.091	0.755	1.103	-0.475	0.646
284E	0.692	1.082	1.655	-1.025	1.531	1.714	0.165	1.714	-1.025	0.831
285L	0.414	0.333	1.748	-1.625	1.649	1.713	0.225	1.748	-1.625	0.637
286A	1.261	1.028	2.262	-1.823	2.114	2.332	-0.210	2.332	-1.823	0.995
287R	0.048	0.824	1.926	-1.738	1.750	1.847	0.050	1.926	-1.738	0.672
288P	-0.117	0.101	1.795	-1.350	1.540	1.268	0.117	1.795	-1.350	0.479
289R	-0.117	-0.258	1.795	-1.060	1.540	1.268	0.117	1.795	-1.060	0.469
290F	-0.117	-0.981	1.954	-0.597	1.713	1.888	1.394	1.954	-0.981	0.751
291T	-0.250	-0.268	1.524	-0.233	1.239	1.263	0.385	1.524	-0.268	0.523
292L	-0.250	-0.759	1.440	0.434	1.139	1.864	0.432	1.864	-0.759	0.614
293H	0.117	-0.064	1.281	1.189	0.984	1.728	0.424	1.728	-0.064	0.809
294A	0.832	-0.154	1.346	1.731	1.030	1.724	-0.837	1.731	-0.837	0.810
295H	0.882	0.421	1.477	1.812	1.248	1.746	-0.714	1.812	-0.714	0.982
296D	1.597	0.235	1.561	1.406	1.239	1.741	-2.160	1.741	-2.160	0.803
297A	1.957	0.509	1.730	0.306	1.431	1.721	-2.453	1.957	-2.453	0.743
298Q	1.590	0.305	1.608	-0.634	1.422	1.722	-0.854	1.722	-0.854	0.737
299A	1.723	0.441	1.879	-1.555	1.722	1.727	-1.123	1.879	-1.555	0.688
300E	0.509	0.345	1.524	-2.132	1.412	1.243	-0.679	1.524	-2.132	0.318
301V	0.737	-0.194	1.515	-2.331	1.367	1.243	0.332	1.515	-2.331	0.381
302R	0.123	0.529	1.066	-2.452	0.984	1.203	0.757	1.203	-2.452	0.316
303L	0.079	0.255	0.851	-2.170	0.893	1.220	2.390	2.390	-2.170	0.503
304G	-0.054	0.550	0.515	-1.780	0.483	0.621	2.416	2.416	-1.780	0.393
305V	0.813	0.413	0.907	-1.039	0.811	1.108	1.819	1.819	-1.039	0.690
306C	0.680	0.413	0.636	-0.059	0.510	1.103	2.087	2.087	-0.059	0.767
307G	1.641	0.868	1.047	0.932	0.875	1.140	1.815	1.815	0.868	1.188
308D	1.046	0.850	0.935	1.544	0.911	1.142	2.403	2.403	0.850	1.262
309H	1.609	0.311	1.253	1.632	1.075	1.160	1.856	1.856	0.311	1.271
310Q	1.963	0.017	1.767	1.349	1.476	1.183	1.120	1.963	0.017	1.268
311V	1.736	-0.438	1.776	0.995	1.522	1.183	0.110	1.776	-0.438	0.983
312T	0.522	-0.342	1.421	0.820	1.212	0.700	0.554	1.421	-0.342	0.698
313N	0.477	-0.833	1.047	0.648	0.948	0.098	0.909	1.047	-0.833	0.471
314A	0.231	-1.442	0.720	0.245	0.574	0.055	-0.265	0.720	-1.442	0.017
315L	0.598	-1.538	0.842	-0.356	0.583	0.054	-1.864	0.842	-1.864	-0.240
316C	0.402	-1.334	0.646	-0.918	0.428	0.034	-2.914	0.646	-2.914	-0.522
317A	-0.275	-1.574	0.225	-1.472	0.109	-0.005	-2.213	0.225	-2.213	-0.744
318A	-0.275	-0.999	0.225	-1.769	0.109	-0.005	-2.213	0.225	-2.213	-0.704
319A	-0.275	-0.963	0.225	-2.018	0.109	-0.005	-2.213	0.225	-2.213	-0.734
320V	0.130	-0.336	0.767	-2.268	0.565	0.576	-2.861	0.767	-2.861	-0.490

321A	0.085	-0.240	0.552	-2.123	0.474	0.594	-1.229	0.594	-2.123	-0.270
322L	0.313	0.616	0.543	-1.883	0.428	0.594	-0.218	0.616	-1.883	0.056
323E	0.313	0.724	0.543	-1.511	0.428	0.594	-0.218	0.724	-1.511	0.125
324C	0.958	0.724	0.814	-1.021	0.592	0.613	-0.647	0.958	-1.021	0.290
325G	0.591	1.179	0.692	-0.754	0.583	0.614	0.951	1.179	-0.754	0.551
326A	1.666	0.455	1.103	-0.646	0.938	1.208	0.490	1.666	-0.646	0.745
327S	1.552	0.455	1.103	-0.675	0.948	0.651	0.680	1.552	-0.675	0.673
328V	1.230	-0.400	1.197	-0.968	1.030	0.635	0.646	1.230	-0.968	0.481
329E	1.002	-0.304	1.206	-1.255	1.075	0.635	-0.364	1.206	-1.255	0.285
330Q	1.002	-1.083	1.206	-1.496	1.075	0.635	-0.364	1.206	-1.496	0.139
331V	0.724	-1.083	1.057	-1.803	0.920	0.615	-1.534	1.057	-1.803	-0.158
332A	0.376	-0.987	1.094	-1.986	0.938	0.619	-1.688	1.094	-1.986	-0.233
333A	0.212	-0.987	0.963	-1.999	0.729	0.039	-1.621	0.963	-1.999	-0.381
334A	-0.035	-0.629	0.636	-1.990	0.355	-0.003	-2.794	0.636	-2.794	-0.637
335L	0.332	-0.270	0.758	-1.790	0.364	-0.005	-4.393	0.758	-4.393	-0.715
336T	0.332	-0.162	1.001	-1.516	0.638	0.014	-3.163	1.001	-3.163	-0.408
337A	0.332	0.203	1.244	-1.161	0.911	0.033	-1.933	1.244	-1.933	-0.053
338A	-0.035	1.016	1.122	-0.846	0.902	0.035	-0.334	1.122	-0.846	0.266
339P	0.958	1.107	1.356	-0.325	1.048	0.049	-0.609	1.356	-0.609	0.512
340P	0.895	1.561	1.589	-0.189	1.367	0.654	-0.651	1.589	-0.651	0.747
341V	0.895	1.089	1.748	0.205	1.540	1.274	0.627	1.748	0.205	1.054
342S	1.028	1.676	2.178	0.254	2.014	1.899	1.636	2.178	0.254	1.526
343R	0.629	0.724	1.926	0.212	1.786	1.897	1.361	1.926	0.212	1.219
344H	0.876	0.401	2.010	-0.168	1.886	1.920	1.304	2.010	-0.168	1.176
345R	0.876	0.802	2.010	-0.693	1.886	1.920	1.304	2.010	-0.693	1.158
346M	0.794	0.802	2.057	-1.289	1.886	1.920	1.185	2.057	-1.289	1.051
347Q	0.857	1.543	1.823	-1.272	1.567	1.315	1.227	1.823	-1.272	1.009
348V	0.990	1.591	2.094	-1.243	1.868	1.320	0.958	2.094	-1.243	1.083
349T	1.084	2.315	1.655	-1.006	1.349	0.696	0.960	2.315	-1.006	1.007
350T	1.982	1.728	1.935	-0.780	1.622	1.167	1.006	1.982	-0.780	1.237
351R	1.963	1.728	1.599	-0.761	1.203	1.125	0.843	1.963	-0.761	1.100
352G	1.963	0.818	1.599	-0.564	1.203	1.125	0.843	1.963	-0.564	0.998
353D	1.963	-0.134	1.599	-0.445	1.203	1.125	0.843	1.963	-0.445	0.879
354G	1.401	-0.134	1.281	-0.590	1.039	1.107	1.391	1.401	-0.590	0.785
355V	0.629	-0.222	0.711	-0.973	0.547	0.484	1.713	1.713	-0.973	0.413
356T	0.901	-0.126	0.991	-1.147	0.911	0.973	1.704	1.704	-1.147	0.601
357V	0.901	-1.023	0.991	-1.041	0.911	0.973	1.704	1.704	-1.041	0.488
358I	0.673	-0.318	1.001	-0.481	0.957	0.973	0.694	1.001	-0.481	0.500
359D	0.787	0.007	1.375	0.156	1.203	0.990	0.437	1.375	0.007	0.708
360D	0.901	0.077	1.477	0.719	1.358	1.011	0.283	1.477	0.077	0.832
361A	1.268	-0.104	1.599	0.830	1.367	1.009	-1.316	1.599	-1.316	0.665
362Y	2.216	0.435	2.038	1.333	1.695	1.048	-1.750	2.216	-1.750	1.002
363N	1.717	1.698	2.010	1.654	1.649	0.578	-1.521	2.010	-1.521	1.112
364A	1.717	0.974	2.010	2.238	1.649	0.578	-1.521	2.238	-1.521	1.092
365N	1.995	1.788	2.160	2.606	1.804	0.598	-0.351	2.606	-0.351	1.514
366P	1.849	1.179	1.898	2.522	1.613	0.596	-0.739	2.522	-0.739	1.274
367D	1.672	1.447	2.029	1.652	1.777	1.180	-0.627	2.029	-0.627	1.304
368S	1.672	0.704	2.029	0.591	1.777	1.180	-0.627	2.029	-0.627	1.047
369M	1.590	0.339	1.720	-0.829	1.422	1.140	-0.513	1.720	-0.829	0.696
370R	0.876	0.453	1.393	-1.761	1.157	1.126	-0.298	1.393	-1.761	0.421
371A	0.623	-0.564	1.449	-2.091	1.212	0.680	-0.126	1.449	-2.091	0.169
372G	0.345	-0.564	1.300	-2.074	1.057	0.660	-1.296	1.300	-2.074	-0.082
373L	0.029	-1.695	1.225	-1.817	1.020	0.648	-0.806	1.225	-1.817	-0.199
374Q	-0.104	-1.815	0.795	-1.771	0.547	0.023	-1.815	0.795	-1.815	-0.591
375A	-0.869	-2.306	0.814	-1.897	0.565	0.048	-0.783	0.814	-2.306	-0.633
376L	-1.735	-2.215	0.683	-2.209	0.592	0.050	-0.461	0.683	-2.215	-0.757
377A	-1.021	-1.520	0.767	-2.445	0.583	0.045	-1.906	0.767	-2.445	-0.785
378W	-1.268	-1.162	0.599	-2.257	0.382	0.622	-1.802	0.622	-2.257	-0.698
379I	-1.021	-0.084	0.926	-1.654	0.756	0.665	-0.629	0.926	-1.654	-0.149

380A	-0.307	0.241	1.253	-0.560	1.020	0.678	-0.844	1.253	-0.844	0.212
381H	0.054	0.732	1.580	0.241	1.385	1.278	0.140	1.580	0.054	0.773
382Q	0.819	1.455	1.561	0.456	1.367	1.252	-0.892	1.561	-0.892	0.860
383P	1.653	1.778	1.898	0.028	1.540	1.271	-1.173	1.898	-1.173	0.999
384E	1.786	2.275	2.328	-0.653	2.014	1.895	-0.164	2.328	-0.653	1.354
385A	1.919	1.197	2.599	-1.365	2.315	1.900	-0.432	2.599	-1.365	1.162
386T	1.951	1.197	2.421	-1.445	2.096	1.878	-0.436	2.421	-1.445	1.095
387R	1.186	0.610	2.197	-1.483	1.841	1.884	-0.634	2.197	-1.483	0.800
388R	0.825	-0.408	1.870	-1.281	1.476	1.284	-1.617	1.870	-1.617	0.307
389S	0.459	-0.595	1.748	-1.223	1.467	1.286	-0.018	1.748	-1.223	0.446
390W	-0.452	-0.875	1.468	-1.437	1.321	1.271	0.376	1.468	-1.437	0.239
391A	-0.357	-0.486	1.029	-1.760	0.802	0.647	0.377	1.029	-1.760	0.036
392V	-0.129	-0.486	0.926	-2.022	0.692	0.622	0.351	0.926	-2.022	-0.007
393L	-0.806	0.185	0.767	-2.329	0.583	0.619	0.136	0.767	-2.329	-0.121
394G	-0.041	0.185	0.748	-2.392	0.565	0.594	-0.896	0.748	-2.392	-0.177
395E	0.319	0.185	1.075	-2.524	0.929	1.193	0.088	1.193	-2.524	0.181
396M	-0.028	0.185	1.113	-2.624	0.948	1.197	-0.066	1.197	-2.624	0.103
397A	0.914	0.838	1.188	-2.585	0.893	1.192	-0.501	1.192	-2.585	0.277
398E	1.046	0.838	1.524	-2.491	1.303	1.791	-0.527	1.791	-2.491	0.498
399L	1.186	-0.062	1.468	-2.046	1.257	1.680	-0.510	1.680	-2.046	0.425
400G	1.584	0.143	1.477	-1.563	1.212	1.663	-1.465	1.663	-1.563	0.436
401E	0.945	0.091	1.337	-1.135	1.194	1.665	-0.133	1.665	-1.135	0.566
402D	0.585	-0.394	1.010	-1.056	0.829	1.066	-1.117	1.066	-1.117	0.132
403A	1.660	-0.394	1.421	-1.386	1.185	1.660	-1.578	1.660	-1.578	0.367
404I	1.432	0.419	1.589	-1.540	1.403	2.280	-1.311	2.280	-1.540	0.610
405A	1.571	0.419	1.533	-1.056	1.358	2.169	-1.294	2.169	-1.294	0.672
406E	1.205	1.046	1.692	-0.236	1.513	2.305	-1.286	2.305	-1.286	0.891
407H	0.566	1.285	1.552	0.475	1.494	2.306	0.046	2.306	0.046	1.104
408D	1.432	0.990	1.683	0.375	1.467	2.305	-0.275	2.305	-0.275	1.140
409R	1.565	0.451	2.113	-0.633	1.941	2.929	0.734	2.929	-0.633	1.300
410I	0.490	-0.458	1.702	-1.661	1.586	2.335	1.195	2.335	-1.661	0.741
411G	0.490	0.680	1.543	-2.401	1.412	1.715	-0.082	1.715	-2.401	0.480
412R	-0.376	-0.152	1.150	-2.598	1.084	1.228	0.516	1.228	-2.598	0.122
413L	-0.376	-0.426	1.150	-2.533	1.084	1.228	0.516	1.228	-2.533	0.092
414A	-0.452	-0.318	1.206	-2.479	1.112	1.232	0.629	1.232	-2.479	0.133
415V	-0.180	0.538	1.487	-2.215	1.476	1.720	0.620	1.720	-2.215	0.492
416R	-0.680	1.447	0.935	-1.845	0.993	1.097	1.209	1.447	-1.845	0.451
417L	0.313	0.429	1.169	-1.055	1.139	1.112	0.934	1.169	-1.055	0.577
418D	0.446	0.538	1.599	-0.514	1.613	1.737	1.943	1.943	-0.514	1.052
419V	0.098	-0.098	1.636	-0.255	1.631	1.741	1.790	1.790	-0.255	0.935
420S	-0.401	-0.098	1.085	-0.609	1.148	1.117	2.379	2.379	-0.609	0.660
421R	-0.054	-0.326	1.047	-1.177	1.130	1.114	2.533	2.533	-1.177	0.610
422L	-0.920	-0.649	0.655	-1.905	0.802	0.626	3.131	3.131	-1.905	0.249
423V	-0.325	0.183	0.767	-2.116	0.765	0.625	2.542	2.542	-2.116	0.349
424V	-0.408	1.093	0.814	-2.124	0.765	0.625	2.423	2.423	-2.124	0.455
425V	-0.313	2.044	0.375	-1.803	0.246	-0.000	2.424	2.424	-1.803	0.425
426G	0.534	1.816	0.889	-1.540	0.711	0.619	1.988	1.988	-1.540	0.717
427T	1.179	2.044	1.160	-1.202	0.875	0.638	1.560	2.044	-1.202	0.893
428G	0.907	1.553	1.141	-1.146	0.866	0.638	1.293	1.553	-1.146	0.750
429R	1.552	0.812	1.412	-0.855	1.030	0.656	0.864	1.552	-0.855	0.782
430S	1.325	0.089	1.421	-0.736	1.075	0.656	-0.147	1.421	-0.736	0.526
431I	0.730	-0.677	1.216	-0.710	0.966	0.654	-0.243	1.216	-0.710	0.277
432S	0.503	0.275	1.384	-0.584	1.185	1.273	0.024	1.384	-0.584	0.580
433A	0.370	-0.581	1.113	-0.092	0.884	1.269	0.293	1.269	-0.581	0.465
434M	0.319	-0.677	0.954	0.474	0.683	1.249	0.133	1.249	-0.677	0.448
435H	0.958	-0.767	1.094	1.250	0.701	1.247	-1.199	1.250	-1.199	0.469
436H	0.313	-0.282	0.823	1.166	0.537	1.228	-0.770	1.228	-0.770	0.431
437G	-0.401	0.255	0.739	0.338	0.547	1.234	0.675	1.234	-0.401	0.484
438A	0.357	-0.372	1.075	-0.815	0.866	1.816	0.704	1.816	-0.815	0.519

439V	0.585	-0.875	0.907	-1.812	0.647	1.196	0.437	1.196	-1.812	0.155
440L	0.585	-0.152	0.748	-2.266	0.474	0.576	-0.840	0.748	-2.266	-0.125
441E	-0.408	0.908	0.776	-2.255	0.537	0.602	-0.818	0.908	-2.255	-0.094
442G	-0.180	0.960	0.767	-2.176	0.492	0.602	0.192	0.960	-2.176	0.094
443A	0.465	0.908	1.038	-1.867	0.656	0.620	-0.237	1.038	-1.867	0.226
444W	1.407	0.908	1.113	-1.486	0.601	0.615	-0.672	1.407	-1.486	0.355
445G	1.407	1.902	1.113	-1.030	0.601	0.615	-0.672	1.902	-1.030	0.562
446S	1.179	1.275	1.122	-0.855	0.647	0.615	-1.682	1.275	-1.682	0.329
447G	1.375	0.958	1.318	-0.911	0.802	0.635	-0.631	1.375	-0.911	0.507
448E	2.140	0.421	1.300	-1.220	0.784	0.609	-1.664	2.140	-1.664	0.339
449A	2.412	0.473	1.580	-1.094	1.148	1.098	-1.673	2.412	-1.673	0.564
450T	2.134	0.473	1.589	-0.512	1.166	1.698	-1.565	2.134	-1.565	0.712
451A	2.134	0.521	1.589	0.412	1.166	1.698	-1.565	2.134	-1.565	0.851
452D	1.774	1.335	1.262	1.101	0.802	1.099	-2.549	1.774	-2.549	0.689
453H	2.273	1.287	1.533	1.363	1.121	1.588	-1.548	2.273	-1.548	1.088
454G	2.210	1.197	1.767	0.834	1.440	2.192	-1.590	2.210	-1.590	1.150
455A	2.406	0.473	1.963	0.351	1.595	2.212	-0.539	2.406	-0.539	1.209
456D	1.906	1.082	1.692	-0.231	1.276	1.723	-1.540	1.906	-1.540	0.844
457R	1.540	0.447	1.412	-0.684	1.093	1.105	-1.218	1.540	-1.218	0.528
458T	1.622	-0.366	1.720	-0.629	1.449	1.146	-1.332	1.720	-1.332	0.516
459A	1.255	-0.318	1.599	-0.448	1.440	1.147	0.267	1.599	-0.448	0.706
460V	0.756	0.309	1.328	-0.165	1.121	0.658	-0.734	1.328	-0.734	0.468
461N	1.122	0.944	1.169	0.302	0.966	0.522	-0.742	1.169	-0.742	0.612
462V	1.154	0.335	0.963	0.286	0.765	0.503	-0.783	1.154	-0.783	0.461
463A	1.653	0.431	1.234	0.366	1.084	0.991	0.219	1.653	0.219	0.854
464D	2.020	0.227	1.356	0.407	1.093	0.990	-1.380	2.020	-1.380	0.673
465G	1.710	-0.312	1.057	0.262	0.784	0.949	-2.277	1.710	-2.277	0.310
466D	1.363	-1.144	1.094	-0.082	0.802	0.953	-2.431	1.363	-2.431	0.079
467A	1.363	-1.887	1.094	-0.710	0.802	0.953	-2.431	1.363	-2.431	-0.117
468A	0.149	-1.073	0.739	-1.605	0.492	0.470	-1.987	0.739	-1.987	-0.402
469L	-0.793	-1.073	0.664	-2.074	0.547	0.475	-1.553	0.664	-2.074	-0.544
470A	-1.160	-0.294	0.823	-2.478	0.701	0.611	-1.544	0.823	-2.478	-0.477
471L	-1.160	-0.498	0.823	-2.546	0.701	0.611	-1.544	0.823	-2.546	-0.516
472L	-0.800	0.519	1.150	-2.599	1.066	1.210	-0.561	1.210	-2.599	-0.002
473R	-0.800	1.082	1.150	-2.586	1.066	1.210	-0.561	1.210	-2.586	0.080
474A	-0.667	0.896	1.580	-2.585	1.540	1.835	0.449	1.835	-2.585	0.435
475E	0.048	1.435	1.907	-2.382	1.804	1.849	0.234	1.907	-2.382	0.699
476L	0.990	0.764	1.982	-2.135	1.750	1.843	-0.201	1.982	-2.135	0.713
477R	1.356	0.872	1.823	-1.452	1.595	1.707	-0.209	1.823	-1.452	0.813
478P	0.990	-0.146	1.702	-0.848	1.586	1.709	1.390	1.709	-0.848	0.912
479G	0.263	-0.601	1.253	-0.343	1.212	1.111	2.005	2.005	-0.601	0.700
480D	0.263	-0.396	1.253	-0.424	1.212	1.111	2.005	2.005	-0.424	0.718
481V	-0.237	-0.935	0.702	-0.870	0.729	0.488	2.594	2.594	-0.935	0.353
482V	-0.009	0.017	0.907	-1.650	1.093	1.064	2.439	2.439	-1.650	0.552
483L	-0.237	0.722	0.917	-2.098	1.139	1.064	1.429	1.429	-2.098	0.419
484V	-0.458	0.926	0.795	-2.164	0.975	0.595	1.598	1.598	-2.164	0.324
485K	0.218	1.022	1.216	-1.341	1.294	0.634	0.896	1.294	-1.341	0.563
486A	0.585	0.818	1.337	-0.291	1.303	0.632	-0.703	1.337	-0.703	0.526
487S	1.299	0.614	1.421	0.704	1.294	0.627	-2.148	1.421	-2.148	0.544
488N	1.894	0.385	1.533	0.901	1.257	0.625	-2.736	1.894	-2.736	0.551
489A	0.952	-0.224	1.001	0.237	0.629	0.036	-2.366	1.001	-2.366	0.038
490A	1.179	-0.320	0.991	-0.786	0.583	0.036	-1.356	1.179	-1.356	0.047
491G	0.901	-0.320	0.842	-1.603	0.428	0.016	-2.526	0.901	-2.526	-0.323
492L	0.225	-0.408	0.421	-2.062	0.109	-0.023	-1.824	0.421	-2.062	-0.509
493G	0.225	-0.204	0.421	-2.082	0.109	-0.023	-1.824	0.421	-2.082	-0.483
494A	0.724	-1.035	0.692	-1.798	0.428	0.466	-0.823	0.724	-1.798	-0.192
495V	0.496	-1.131	0.702	-1.485	0.474	0.466	-1.834	0.702	-1.834	-0.330
496A	0.496	-1.035	0.702	-1.034	0.474	0.466	-1.834	0.702	-1.834	-0.252
497D	-0.098	-0.496	0.589	-0.912	0.510	0.467	-1.245	0.589	-1.245	-0.169

498A	-0.098	-0.496	0.589	-1.136	0.510	0.467	-1.245	0.589	-1.245	-0.201
499L	0.768	-0.005	0.982	-1.336	0.838	0.955	-1.843	0.982	-1.843	0.051
500V	1.268	0.235	1.253	-1.019	1.157	1.444	-0.842	1.444	-1.019	0.499
501A	0.964	0.958	1.178	-0.295	0.993	0.975	-0.792	1.178	-0.792	0.569
502D	0.920	1.814	0.963	0.772	0.902	0.992	0.840	1.814	0.772	1.029
503D	1.862	1.179	1.038	1.288	0.847	0.987	0.406	1.862	0.406	1.087
504T	<u>2.507</u>	1.453	1.309	1.329	1.011	1.005	-0.023	2.507	-0.023	1.227
505C	<u>2.140</u>	1.321	1.188	0.884	1.002	1.007	1.576	2.140	0.884	1.303
506G	1.774	1.539	1.346	0.278	1.157	1.143	1.584	1.774	0.278	1.260
507S	1.274	1.167	1.318	-0.248	1.112	0.673	1.813	1.813	-0.248	1.016
508V	0.945	0.566	0.664	-0.590	1.276	0.713	0.762	1.276	-0.590	0.619
509R	0.857	0.916	0.421	-0.774	1.686	0.755	-0.870	1.686	-0.870	0.427
510P	0.496	0.357	-0.027	-0.607	2.050	0.815	-1.881	2.050	-1.881	0.172

[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 MIELTVAQIAEIVGGAVADISPQDAAHRRVTGTVEFDSRAIGPGGLFLALPGARADGHDHAASAVAA GAAVLAARPVGVPVPPVAAAPNVLAGVLEHDNDGSGAAVLAALAKLATAVAAQLVAGGLTIIGITG SSGKTSTKDLMAAVLAPLGEVVAPPGSFNNELGHPWTVLRATRRTDYILEMAARHHGNIAALAEIAP PSIGVVLNVGTAHLGEFGSREVIAQTKAELQAVPHSGAVVLNADDPVAAMAKLTAARVVRVSRDN TGDVWAGPVSLDELARPRFTLHAHDAQAEVRLGVCGDHQVTNALCAAVALECGASVEQVAAALTA APPVSRHRMQVTTTRGDGVTVIDDAYNANPDSMRAGLQALAWIAHQPEATRRSWAVLGEMAELED AIAEHDRIGRLAVRLDVSRLVVVGTGRSISAMHHGAVLEGAWGSGEATADHGADRTAVNVADGDAAL ALLRAELRPGDVVLVKASNAAGLGAVADALVADDTCGSVRP ⁵¹⁰
Hydrophili city	¹ MIELTVAQIAEIVGGAVADISPQDAAHRRVTGTVEFDSRAIGPGGLFLAL <u>PGARADGHDHAA</u> SAVAA GAAVLAARPVGVPVPPVAAAPNVLAGV <u>LEHDNDGSGAAVLAALAKLATAVAAQLVAGGLTIIGITG</u> <u>SSGKTSTKDL</u> MAAVLAPLGEVVAPPGSFNNELGHPWTVL <u>RATRRTD</u> YLILEMAARHHGNIAALAEIAP <u>PSIGVVLNVGTAHLGEFGSREVIAQTKAELQAVPHSGAVVLNADDPVAAMAKLTAARVVRVSRDN</u> <u>TGDVWAGPVSLDELARPRFTLHAHDAQAEVRLGVCGDHQVTNALCAAVALECGASVEQVAAALTA</u> APPVSRHRMQVTTTRGDGVTVIDDAYNANPDSMRAGLQALAWIAHQPEATRRSWAVLGEMAELED AIAEHDRIGRLAVRLDVSRLVVVGTGRSISAMHHGAVLEGAW <u>GSGEATADHGADRTAVNVADGDAAL</u> ALLRAELRPGDVVLVKASNAAGLGAVADALV <u>ADDTCGSVRP</u> ⁵¹⁰

Flexibility	¹ MIELTVAQIAEIVGGAVADISPQDAAHRRVTGTVEFDSRAIGPGGLFLALPGARADGHDHAASAVAA GAAVVLAARPVGVPVPAIVPPVAAPNVLAGVLEHDNDGSGAAVLAALAKLATAVAAQLVAGGLTIIGITG SSGKTSTKDLMAAVLAPLGEVVAPPGSFNNELGHPWTVLRATRRTDYLILEMAARHHGNIAALAEIAP PSIGVVLNVGTAHLGEFGSREVIQAQTKAELPQAVPHSGAVVLNADDPAVAAMAKLTAARVVVRVSRDN TGDVWAGPVSLEDELARPRFTLHAHDAQAEVRLGVCGDHQTALCAAVALECGASVEQVAAALTA APPVSRHRMQVTTRGDGVTVIDDAYNANPDSMRAGLQALAWIAHQPEATRRSWAVLGEMAELGED AIAEHDRIGRLAVRLDVSRLVVVGTGRSISAMHHGAVLEGAWGSGEATADHGADRTAVNVADGDAAL ALLRAELRPGDVVLVKASNAAGLGAVADALVADDTCGSVRP ⁵¹⁰
Accessibility	¹ MIELTVAQIAEIVGGAVADISPQDAAHRRVTGTVEFDSRAIGPGGLFLALPGARADGHDHAASAVAA GAAVVLAARPVGVPVPAIVPPVAAPNVLAGVLEHDNDGSGAAVLAALAKLATAVAAQLVAGGLTIIGITG SSGKTSTKDLMAAVLAPLGEVVAPPGSFNNELGHPWTVLRATRRTDYLILEMAARHHGNIAALAEIAP PSIGVVLNVGTAHLGEFGSREVIQAQTKAELPQAVPHSGAVVLNADDPAVAAMAKLTAARVVVRVSRDN TGDVWAGPVSLEDELARPRFTLHAHDAQAEVRLGVCGDHQTALCAAVALECGASVEQVAAALTA APPVSRHRMQVTTRGDGVTVIDDAYNANPDSMRAGLQALAWIAHQPEATRRSWAVLGEMAELGED AIAEHDRIGRLAVRLDVSRLVVVGTGRSISAMHHGAVLEGAWGSGEATADHGADRTAVNVADGDAAL ALLRAELRPGDVVLVKASNAAGLGAVADALVADDTCGSVRP ⁵¹⁰
Turns	¹ MIELTVAQIAEIVGGAVADISPQDAAHRRVTGTVEFDSRAIGPGGLFLALPGARADGHDHAASAVAA GAAVVLAARPVGVPVPAIVPPVAAPNVLAGVLEHDNDGSGAAVLAALAKLATAVAAQLVAGGLTIIGITG SSGKTSTKDLMAAVLAPLGEVVAPPGSFNNELGHPWTVLRATRRTDYLILEMAARHHGNIAALAEIAP PSIGVVLNVGTAHLGEFGSREVIQAQTKAELPQAVPHSGAVVLNADDPAVAAMAKLTAARVVVRVSRDN TGDVWAGPVSLEDELARPRFTLHAHDAQAEVRLGVCGDHQTALCAAVALECGASVEQVAAALTA APPVSRHRMQVTTRGDGVTVIDDAYNANPDSMRAGLQALAWIAHQPEATRRSWAVLGEMAELGED AIAEHDRIGRLAVRLDVSRLVVVGTGRSISAMHHGAVLEGAWGSGEATADHGADRTAVNVADGDAAL ALLRAELRPGDVVLVKASNAAGLGAVADALVADDTCGSVRP ⁵¹⁰
Exposed Surface	¹ MIELTVAQIAEIVGGAVADISPQDAAHRRVTGTVEFDSRAIGPGGLFLALPGARADGHDHAASAVAA GAAVVLAARPVGVPVPAIVPPVAAPNVLAGVLEHDNDGSGAAVLAALAKLATAVAAQLVAGGLTIIGITG SSGKTSTKDLMAAVLAPLGEVVAPPGSFNNELGHPWTVLRATRRTDYLILEMAARHHGNIAALAEIAP PSIGVVLNVGTAHLGEFGSREVIQAQTKAELPQAVPHSGAVVLNADDPAVAAMAKLTAARVVVRVSRDN TGDVWAGPVSLEDELARPRFTLHAHDAQAEVRLGVCGDHQTALCAAVALECGASVEQVAAALTA APPVSRHRMQVTTRGDGVTVIDDAYNANPDSMRAGLQALAWIAHQPEATRRSWAVLGEMAELGED AIAEHDRIGRLAVRLDVSRLVVVGTGRSISAMHHGAVLEGAWGSGEATADHGADRTAVNVADGDAAL ALLRAELRPGDVVLVKASNAAGLGAVADALVADDTCGSVRP ⁵¹⁰
Polarity	¹ MIELTVAQIAEIVGGAVADISPQDAAHRRVTGTVEFDSRAIGPGGLFLALPGARADGHDHAASAVAA GAAVVLAARPVGVPVPAIVPPVAAPNVLAGVLEHDNDGSGAAVLAALAKLATAVAAQLVAGGLTIIGITG SSGKTSTKDLMAAVLAPLGEVVAPPGSFNNELGHPWTVLRATRRTDYLILEMAARHHGNIAALAEIAP PSIGVVLNVGTAHLGEFGSREVIQAQTKAELPQAVPHSGAVVLNADDPAVAAMAKLTAARVVVRVSRDN TGDVWAGPVSLEDELARPRFTLHAHDAQAEVRLGVCGDHQTALCAAVALECGASVEQVAAALTA APPVSRHRMQVTTRGDGVTVIDDAYNANPDSMRAGLQALAWIAHQPEATRRSWAVLGEMAELGED AIAEHDRIGRLAVRLDVSRLVVVGTGRSISAMHHGAVLEGAWGSGEATADHGADRTAVNVADGDAAL ALLRAELRPGDVVLVKASNAAGLGAVADALVADDTCGSVRP ⁵¹⁰
Antigenic Propensity	¹ MIELTVAQIAEIVGGAVADISPQDAAHRRVTGTVEFDSRAIGPGGLFLALPGARADGHDHAASAVAA GAAVVLAARPVGVPVPAIVPPVAAPNVLAGVLEHDNDGSGAAVLAALAKLATAVAAQLVAGGLTIIGITG SSGKTSTKDLMAAVLAPLGEVVAPPGSFNNELGHPWTVLRATRRTDYLILEMAARHHGNIAALAEIAP PSIGVVLNVGTAHLGEFGSREVIQAQTKAELPQAVPHSGAVVLNADDPAVAAMAKLTAARVVVRVSRDN TGDVWAGPVSLEDELARPRFTLHAHDAQAEVRLGVCGDHQTALCAAVALECGASVEQVAAALTA APPVSRHRMQVTTRGDGVTVIDDAYNANPDSMRAGLQALAWIAHQPEATRRSWAVLGEMAELGED AIAEHDRIGRLAVRLDVSRLVVVGTGRSISAMHHGAVLEGAWGSGEATADHGADRTAVNVADGDAAL ALLRAELRPGDVVLVKASNAAGLGAVADALVADDTCGSVRP ⁵¹⁰

[Home](#)