

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

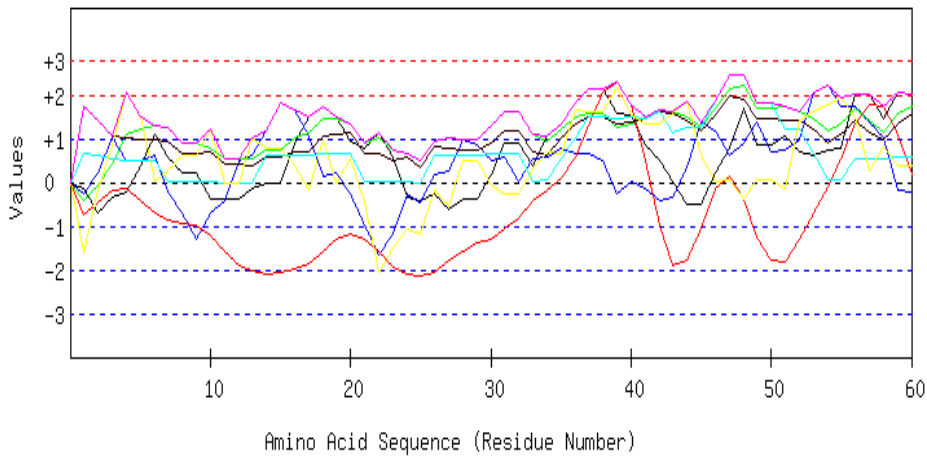
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Length=486

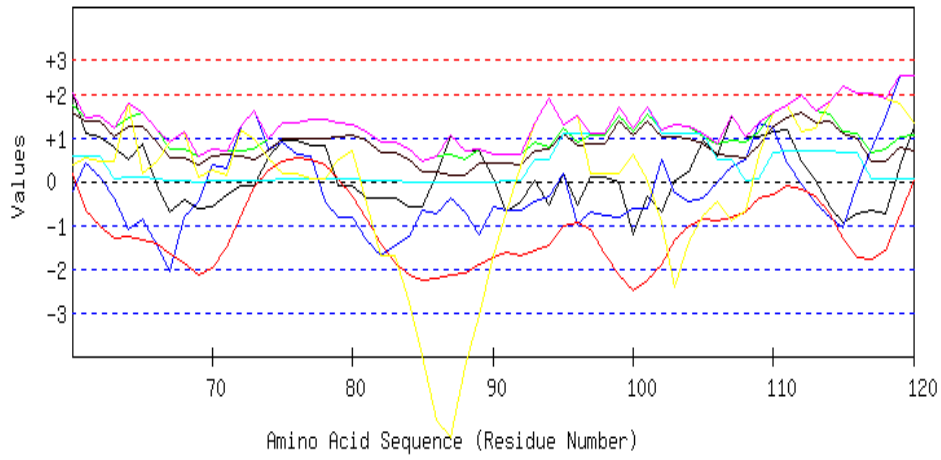
GRAPHICAL RESULT

GRAPHICAL RESULT :: SEQ 1 to 60



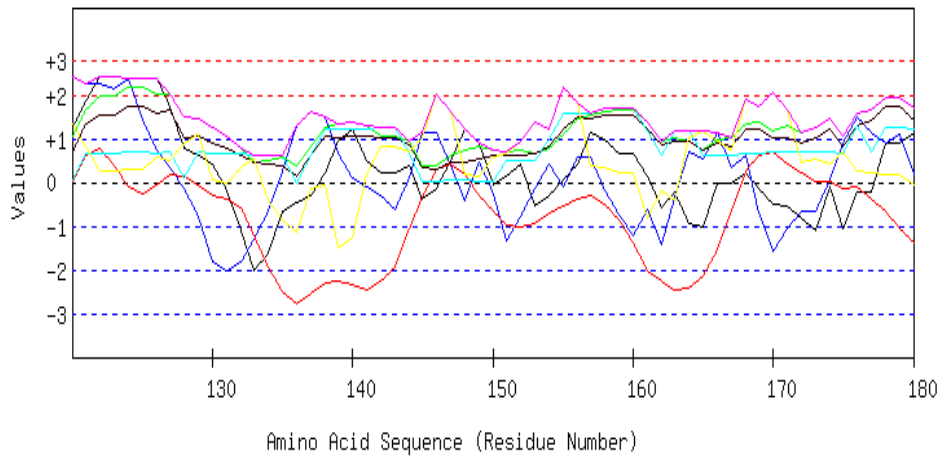
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 61 to 120



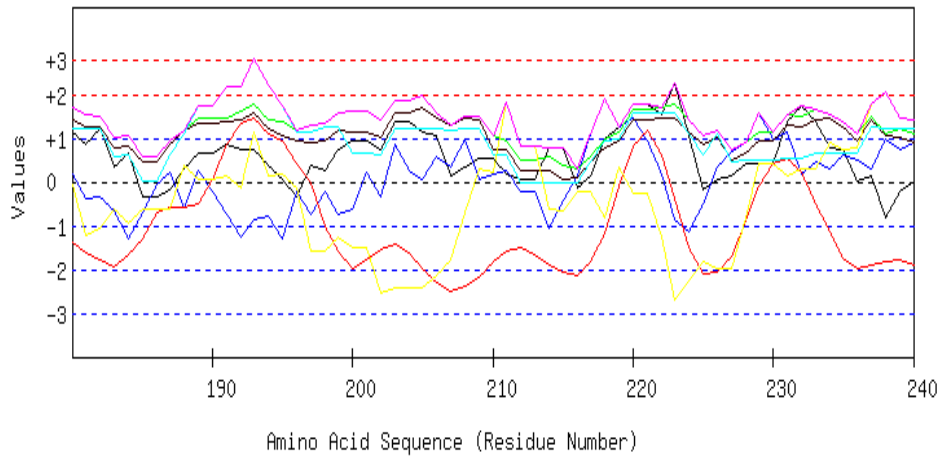
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 121 to 180



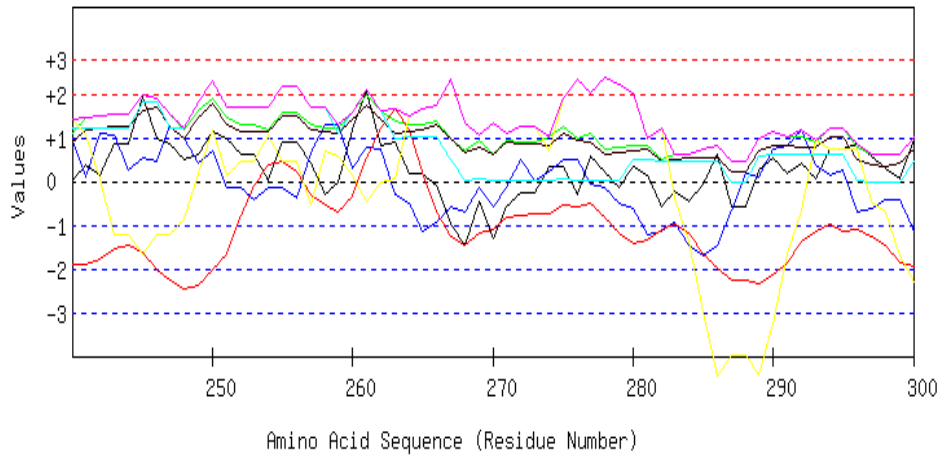
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 181 to 240



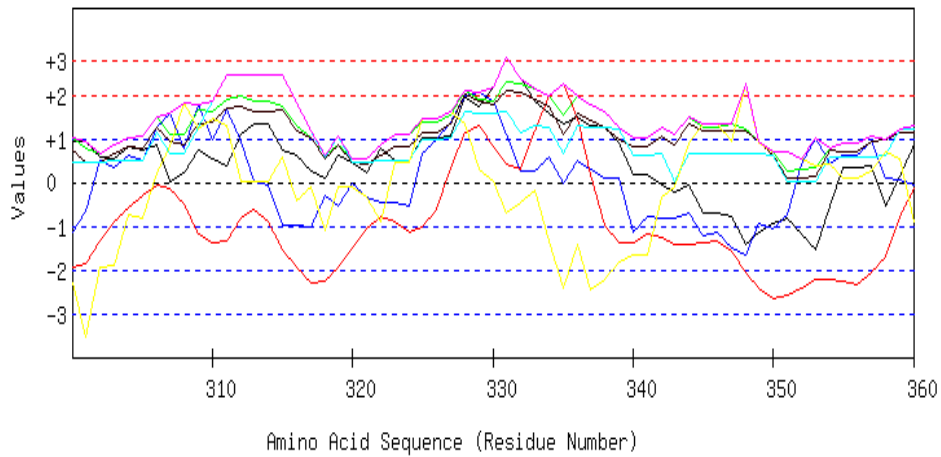
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 241 to 300



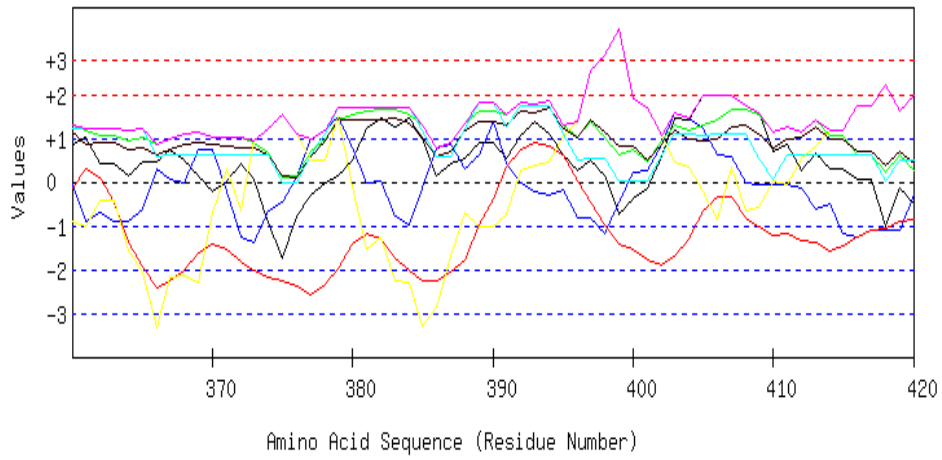
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 301 to 360



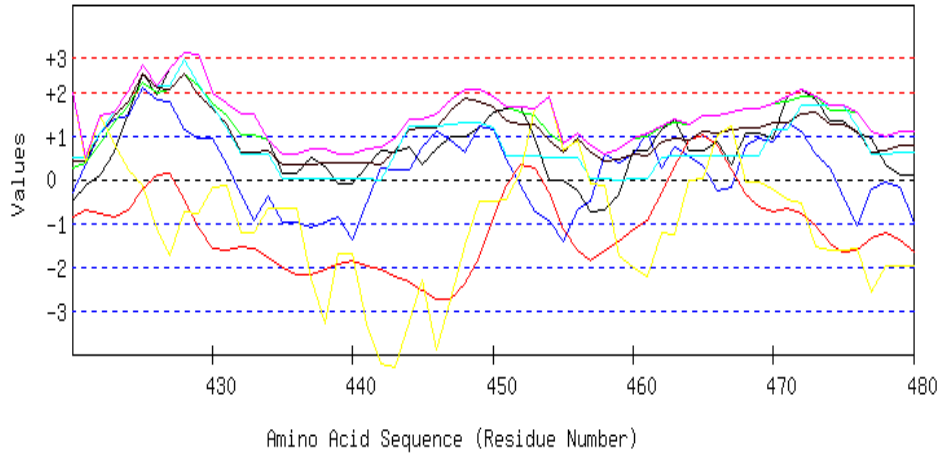
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 361 to 420



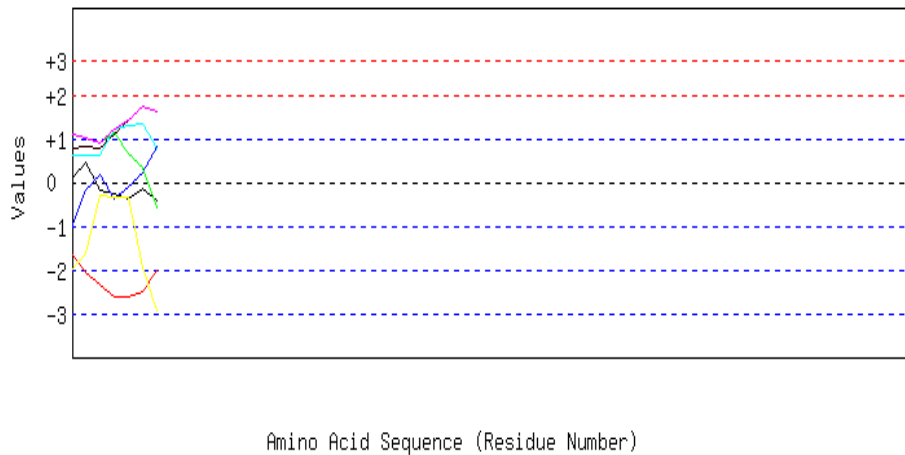
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

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

VLDPLGPGAPVLVAGGRVTGQAVAAVTRFGATPTVCDDDPVMLRPHAERGLPTVSSSDA
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VRAVIR

Length=486

A.A.	Parameter							Combined		
	Hydro	Flexi	Access	Turns	Surface	Polar	AntiPro	MAX	MIN	AVG
1 V	-0.129	-0.254	-0.420	-0.753	1.750	0.665	-1.614	1.750	-1.614	-0.108
2 L	-0.711	0.201	-0.046	-0.469	1.440	0.610	-0.169	1.440	-0.711	0.122
3 D	-0.351	1.032	0.403	-0.198	1.075	0.550	0.842	1.075	-0.351	0.479
4 P	-0.218	0.493	1.103	-0.152	1.030	0.509	2.072	2.072	-0.218	0.691
5 L	0.376	0.493	1.216	-0.431	0.993	0.508	1.483	1.483	-0.431	0.663

6 G	1.091	0.602	1.300	-0.699	0.984	0.502	0.038	1.300	-0.699	0.545
7 P	0.591	-0.230	1.272	-0.858	0.938	0.032	0.267	1.272	-0.858	0.288
8 G	0.225	-0.685	0.907	-0.933	0.656	0.015	0.636	0.907	-0.933	0.117
9 A	0.225	-1.312	0.907	-0.993	0.656	0.015	0.636	0.907	-1.312	0.019
10 P	-0.370	-0.685	0.795	-1.222	0.692	0.016	1.224	1.224	-1.222	0.065
11 V	-0.370	-0.416	0.552	-1.593	0.419	-0.003	-0.006	0.552	-1.593	-0.202
12 L	-0.370	0.493	0.552	-1.898	0.419	-0.003	-0.006	0.552	-1.898	-0.116
13 V	-0.142	0.602	0.543	-2.025	0.373	-0.003	1.005	1.005	-2.025	0.050
14 A	-0.009	1.189	0.730	-2.112	0.574	0.603	0.784	1.189	-2.112	0.251
15 G	-0.009	1.816	0.730	-2.059	0.574	0.603	0.784	1.816	-2.059	0.348
16 G	0.901	1.680	1.010	-1.969	0.720	0.618	0.390	1.680	-1.969	0.478
17 R	1.495	1.052	1.122	-1.876	0.683	0.616	-0.199	1.495	-1.876	0.414
18 V	1.742	0.143	1.449	-1.576	1.057	0.658	0.975	1.742	-1.576	0.635
19 T	1.514	0.239	1.459	-1.308	1.103	0.658	-0.036	1.514	-1.308	0.518
20 G	0.920	-0.252	1.346	-1.165	1.139	0.660	0.553	1.346	-1.165	0.457
21 Q	0.787	-0.975	0.917	-1.285	0.665	0.035	-0.457	0.917	-1.285	-0.045
22 A	1.154	-1.670	1.038	-1.564	0.674	0.034	-2.055	1.154	-2.055	-0.341
23 V	0.591	-1.180	0.720	-1.920	0.510	0.015	-1.507	0.720	-1.920	-0.396
24 A	-0.351	-0.270	0.646	-2.115	0.565	0.021	-1.073	0.646	-2.115	-0.368
25 A	-0.401	-0.444	0.515	-2.126	0.346	-0.002	-1.195	0.515	-2.126	-0.473
26 V	-0.269	0.183	0.945	-2.050	0.820	0.623	-0.186	0.945	-2.050	0.009
27 L	-0.616	0.279	1.001	-1.778	0.784	0.626	-0.524	1.001	-1.778	-0.033
28 T	-0.389	0.974	0.991	-1.569	0.738	0.626	0.487	0.991	-1.569	0.265
29 R	-0.389	0.842	0.991	-1.397	0.738	0.626	0.487	0.991	-1.397	0.271
30 F	0.174	0.519	1.309	-1.293	0.902	0.644	-0.061	1.309	-1.293	0.313
31 G	0.888	0.598	1.636	-1.074	1.166	0.658	-0.276	1.636	-1.074	0.514
32 A	0.888	0.007	1.636	-0.808	1.166	0.658	-0.276	1.636	-0.808	0.467
33 T	0.389	0.546	1.085	-0.439	0.683	0.034	0.313	1.085	-0.439	0.373
34 P	1.059	0.594	0.935	-0.160	0.638	0.048	0.684	1.059	-0.160	0.543
35 T	1.331	0.774	1.216	0.109	1.002	0.537	0.675	1.331	0.109	0.806
36 V	1.830	0.642	1.487	0.574	1.321	1.026	1.676	1.830	0.574	1.222
37 C	2.134	0.642	1.561	1.293	1.485	1.495	1.627	2.134	0.642	1.462
38 D	2.134	0.491	1.561	2.052	1.485	1.495	1.627	2.134	0.491	1.549
39 D	1.571	-0.252	1.244	2.297	1.321	1.477	2.175	2.297	-0.252	1.405
40 D	1.540	0.023	1.356	1.769	1.376	1.492	1.531	1.769	0.023	1.298
41 P	0.869	-0.158	1.487	0.507	1.476	1.480	1.343	1.487	-0.158	1.001
42 V	0.503	-0.426	1.646	-0.966	1.631	1.615	1.351	1.646	-0.966	0.765
43 M	0.003	-0.330	1.617	-1.884	1.586	1.146	1.580	1.617	-1.884	0.531
44 L	-0.496	0.359	1.505	-1.800	1.440	1.276	1.857	1.857	-1.800	0.592
45 R	-0.496	1.377	1.262	-1.063	1.166	1.258	0.627	1.377	-1.063	0.590
46 P	0.231	1.191	1.711	-0.132	1.540	1.856	0.012	1.856	-0.132	0.915
47 H	0.762	0.628	2.150	0.135	1.968	2.463	0.066	2.463	0.066	1.167
48 A	1.704	0.896	2.225	-0.368	1.914	2.458	-0.369	2.458	-0.369	1.209
49 E	0.857	1.387	1.711	-1.272	1.449	1.838	0.067	1.838	-1.272	0.862
50 R	0.857	0.716	1.711	-1.771	1.449	1.838	0.067	1.838	-1.771	0.695
51 G	1.053	0.758	1.748	-1.814	1.431	1.238	-0.160	1.748	-1.814	0.608
52 L	0.686	0.986	1.627	-1.320	1.422	1.240	1.439	1.627	-1.320	0.869
53 P	0.604	2.046	1.449	-0.706	1.212	0.660	1.625	2.046	-0.706	0.984
54 T	0.749	2.227	1.169	-0.108	0.893	0.056	1.786	2.227	-0.108	0.967
55 V	0.800	1.736	1.328	0.533	1.093	0.076	1.946	1.946	0.076	1.073
56 S	2.014	1.736	1.683	1.341	1.403	0.559	1.502	2.014	0.559	1.463
57 S	2.014	1.371	1.440	1.798	1.130	0.540	0.272	2.014	0.272	1.224
58 S	1.451	1.006	1.122	1.728	0.966	0.522	0.820	1.728	0.522	1.088
59 D	2.064	-0.174	1.571	1.120	1.349	0.563	0.394	2.064	-0.174	0.984
60 A	2.033	-0.222	1.748	0.171	1.567	0.585	0.398	2.033	-0.222	0.897
61 V	1.116	0.405	1.459	-0.675	1.394	0.567	0.560	1.459	-0.675	0.689
62 Q	1.034	0.095	1.505	-1.031	1.394	0.567	0.440	1.505	-1.031	0.572
63 Q	0.762	-0.396	1.225	-1.283	1.030	0.078	0.450	1.225	-1.283	0.266
64 I	0.509	-1.091	1.477	-1.269	1.267	0.097	1.792	1.792	-1.269	0.397

65 T	0.876	-0.863	1.599	-1.322	1.276	0.096	0.193	1.599	-1.322	0.265
66 G	-0.085	-1.450	1.188	-1.411	0.911	0.059	0.465	1.188	-1.450	-0.046
67 Y	-0.698	-2.077	0.739	-1.643	0.528	0.018	0.890	0.890	-2.077	-0.320
68 A	-0.427	-0.815	0.758	-1.849	0.537	0.018	1.157	1.157	-1.849	-0.089
69 L	-0.623	-0.456	0.561	-2.146	0.382	-0.002	0.106	0.561	-2.146	-0.311
70 V	-0.572	0.375	0.720	-1.980	0.583	0.018	0.266	0.720	-1.980	-0.084
71 V	-0.319	0.297	0.711	-1.505	0.619	0.017	0.154	0.711	-1.505	-0.004
72 A	-0.092	1.249	0.702	-0.795	0.574	0.017	1.164	1.249	-0.795	0.403
73 S	-0.092	1.607	0.720	-0.155	0.519	0.016	0.980	1.607	-0.155	0.514
74 P	0.553	0.752	0.991	0.262	0.683	0.035	0.551	0.991	0.035	0.547
75 G	0.920	0.884	1.356	0.444	0.966	0.052	0.183	1.356	0.052	0.686
76 F	0.920	0.616	1.356	0.533	0.966	0.052	0.183	1.356	0.052	0.661
77 S	0.838	0.586	1.403	0.508	0.966	0.052	0.064	1.403	0.052	0.631
78 P	0.838	-0.474	1.403	0.384	0.966	0.052	0.064	1.403	-0.474	0.462
79 A	-0.104	-0.833	1.328	0.076	1.020	0.057	0.498	1.328	-0.833	0.292
80 T	-0.104	-0.833	1.309	-0.342	1.075	0.059	0.682	1.309	-0.833	0.264
81 P	-0.382	-1.324	1.160	-0.867	0.920	0.039	-0.488	1.160	-1.324	-0.135
82 L	-0.382	-1.682	0.917	-1.423	0.647	0.020	-1.718	0.917	-1.718	-0.517
83 L	-0.382	-1.478	0.917	-1.867	0.647	0.020	-1.718	0.917	-1.867	-0.552
84 A	-0.578	-1.274	0.720	-2.157	0.492	-0.000	-2.769	0.720	-2.769	-0.795
85 A	-0.578	-0.647	0.477	-2.263	0.218	-0.019	-3.999	0.477	-3.999	-0.973
86 A	0.136	-0.743	0.561	-2.206	0.209	-0.025	-5.444	0.561	-5.444	-1.073
87 A	1.078	-0.384	0.636	-2.148	0.155	-0.030	-5.879	1.078	-5.879	-0.939
88 A	0.711	-0.709	0.515	-2.115	0.146	-0.029	-4.280	0.711	-4.280	-0.823
89 A	0.711	-1.212	0.758	-1.891	0.419	-0.010	-3.050	0.758	-3.050	-0.611
90 G	0.073	-0.585	0.618	-1.755	0.401	-0.008	-1.718	0.618	-1.755	-0.425
91 V	-0.692	-0.673	0.636	-1.620	0.419	0.017	-0.686	0.636	-1.620	-0.371
92 P	-0.465	-0.673	0.627	-1.699	0.373	0.017	0.325	0.627	-1.699	-0.213
93 I	0.035	-0.456	0.898	-1.584	0.692	0.506	1.326	1.326	-1.584	0.202
94 W	-0.559	-0.336	0.786	-1.445	0.729	0.508	1.914	1.914	-1.445	0.228
95 G	0.168	0.167	1.234	-1.012	1.103	1.106	1.299	1.299	-1.012	0.581
96 D	-0.547	-0.963	0.907	-0.935	0.838	1.092	1.514	1.514	-0.963	0.273
97 V	0.092	-0.689	1.047	-1.108	0.856	1.091	0.183	1.091	-1.108	0.210
98 E	0.092	-0.797	1.047	-1.680	0.856	1.091	0.183	1.091	-1.680	0.113
99 L	-0.003	-0.833	1.487	-2.145	1.376	1.715	0.182	1.715	-2.145	0.254
100A	-1.217	-0.629	1.132	-2.517	1.066	1.232	0.625	1.232	-2.517	-0.044
101W	-0.351	-0.629	1.524	-2.263	1.394	1.719	0.028	1.719	-2.263	0.203
102R	-0.711	0.501	1.197	-1.907	1.030	1.119	-0.956	1.197	-1.907	0.039
103L	0.003	-0.276	1.281	-1.351	1.020	1.114	-2.401	1.281	-2.401	-0.087
104D	0.231	-0.478	1.272	-1.027	0.975	1.114	-1.391	1.272	-1.391	0.099
105A	0.952	-0.390	1.038	-0.855	0.866	1.107	-0.791	1.107	-0.855	0.275
106A	0.566	-0.032	0.860	-0.911	0.629	0.501	-0.458	0.860	-0.911	0.165
107G	1.508	0.327	0.935	-0.801	0.574	0.496	-0.892	1.508	-0.892	0.307
108C	1.009	0.513	0.907	-0.685	0.528	0.026	-0.664	1.009	-0.685	0.234
109Y	1.009	1.333	1.150	-0.376	0.802	0.045	0.566	1.333	-0.376	0.647
110G	1.141	1.237	1.580	-0.299	1.276	0.670	1.576	1.580	-0.299	1.026
111P	1.192	0.405	1.739	-0.086	1.476	0.690	1.735	1.739	-0.086	1.022
112P	0.471	-0.050	1.973	-0.186	1.586	0.697	1.135	1.973	-0.186	0.804
113R	0.010	-0.504	1.636	-0.332	1.358	0.683	1.238	1.636	-0.504	0.584
114S	-0.585	-0.827	1.524	-0.746	1.394	0.685	1.827	1.827	-0.827	0.467
115W	-0.951	-1.055	1.160	-1.292	1.112	0.667	2.195	2.195	-1.292	0.262
116L	-0.755	-0.062	1.113	-1.723	0.993	0.668	2.016	2.016	-1.723	0.321
117V	-0.661	0.752	0.674	-1.767	0.474	0.044	2.017	2.017	-1.767	0.219
118V	-0.743	1.475	0.720	-1.583	0.474	0.043	1.898	1.898	-1.583	0.326
119T	0.332	2.403	1.001	-0.763	0.765	0.059	1.763	2.403	-0.763	0.794
120G	1.274	2.403	1.075	0.021	0.711	0.053	1.328	2.403	0.021	0.981
121T	1.868	2.267	1.646	0.637	1.358	0.647	0.805	2.267	0.637	1.318
122N	2.431	2.267	1.963	0.779	1.522	0.665	0.257	2.431	0.257	1.412
123G	2.431	2.148	1.963	0.373	1.522	0.665	0.257	2.431	0.257	1.337

124K	2.399	2.377	2.169	-0.105	1.722	0.685	0.297	2.399	-0.105	1.363
125T	2.399	1.431	2.169	-0.250	1.722	0.685	0.297	2.399	-0.250	1.208
126T	2.368	0.736	2.019	-0.070	1.567	0.664	0.570	2.368	-0.070	1.122
127T	1.742	0.335	2.019	0.172	1.658	0.681	0.514	2.019	0.172	1.018
128T	0.800	-0.156	1.487	0.130	1.030	0.092	0.884	1.487	-0.156	0.610
129S	0.604	-0.761	1.449	-0.044	1.048	0.692	1.111	1.449	-0.761	0.586
130M	0.408	-1.821	1.253	-0.300	0.893	0.672	0.060	1.253	-1.821	0.167
131L	-0.186	-2.031	1.047	-0.399	0.784	0.669	-0.036	1.047	-2.031	-0.022
132H	-1.097	-1.827	0.767	-0.577	0.638	0.655	0.358	0.767	-1.827	-0.155
133A	-2.014	-1.290	0.477	-1.206	0.465	0.637	0.520	0.637	-2.014	-0.344
134M	-1.615	-0.663	0.487	-1.958	0.419	0.620	-0.435	0.620	-1.958	-0.449
135L	-0.673	0.265	0.561	-2.511	0.364	0.614	-0.869	0.614	-2.511	-0.321
136I	-0.446	1.283	0.393	-2.763	0.146	-0.006	-1.136	1.283	-2.763	-0.361
137A	-0.313	1.607	0.823	-2.523	0.619	0.619	-0.127	1.607	-2.523	0.101
138G	0.218	1.511	1.262	-2.289	1.048	1.226	-0.073	1.511	-2.289	0.415
139G	0.933	0.680	1.346	-2.276	1.039	1.221	-1.518	1.346	-2.276	0.204
140R	1.205	0.089	1.365	-2.353	1.048	1.221	-1.251	1.365	-2.353	0.189
141R	0.490	-0.098	1.281	-2.470	1.057	1.226	0.194	1.281	-2.470	0.240
142A	0.218	-0.302	1.075	-2.278	1.011	1.244	0.816	1.244	-2.278	0.255
143V	0.218	-0.627	1.075	-1.958	1.011	1.244	0.816	1.244	-1.958	0.254
144L	0.395	0.097	0.945	-1.044	0.847	0.660	0.704	0.945	-1.044	0.372
145C	-0.376	1.157	0.375	-0.333	0.355	0.037	1.027	1.157	-0.376	0.320
146G	-0.148	1.121	0.365	0.287	0.310	0.037	2.037	2.037	-0.148	0.573
147N	0.496	0.397	0.636	0.420	0.474	0.056	1.608	1.608	0.056	0.584
148I	1.211	-0.416	0.720	0.185	0.465	0.050	0.163	1.211	-0.416	0.340
149G	0.888	0.447	0.814	-0.315	0.547	0.034	0.130	0.888	-0.315	0.364
150S	-0.054	-0.276	0.739	-0.656	0.601	0.039	0.564	0.739	-0.656	0.137
151A	0.136	-1.336	0.711	-0.961	0.610	0.488	0.668	0.711	-1.336	0.045
152V	0.408	-0.797	0.730	-1.015	0.619	0.487	0.935	0.935	-1.015	0.195
153L	-0.534	-0.126	0.655	-0.922	0.674	0.493	1.370	1.370	-0.922	0.230
154D	-0.313	0.437	0.776	-0.717	0.838	0.962	1.201	1.201	-0.717	0.455
155V	0.048	-0.102	1.103	-0.548	1.203	1.561	2.185	2.185	-0.548	0.779
156L	0.414	0.570	1.468	-0.365	1.485	1.579	1.816	1.816	-0.365	0.995
157D	1.129	0.570	1.552	-0.310	1.476	1.573	0.371	1.573	-0.310	0.909
158E	0.990	-0.174	1.608	-0.488	1.522	1.684	0.354	1.684	-0.488	0.785
159P	0.642	-0.749	1.646	-0.867	1.540	1.688	0.200	1.688	-0.867	0.586
160A	0.642	-1.204	1.646	-1.370	1.540	1.688	0.200	1.688	-1.370	0.449
161E	0.142	-0.629	1.375	-2.023	1.221	1.199	-0.801	1.375	-2.023	0.069
162L	-0.585	-1.408	0.926	-2.275	0.847	0.601	-0.186	0.926	-2.275	-0.297
163L	-0.224	-0.348	1.010	-2.449	0.938	1.181	-0.432	1.181	-2.449	-0.046
164A	-0.939	0.712	0.926	-2.424	0.948	1.187	1.013	1.187	-2.424	0.203
165V	-1.021	0.538	0.748	-2.128	0.738	0.607	1.199	1.199	-2.128	0.097
166E	-0.028	1.125	0.982	-1.535	0.884	0.622	0.924	1.125	-1.535	0.425
167L	-0.028	0.345	1.001	-0.645	0.829	0.621	0.740	1.001	-0.645	0.409
168S	0.218	0.640	1.328	0.242	1.203	0.663	1.913	1.913	0.218	0.887
169S	-0.129	-0.719	1.365	0.609	1.221	0.667	1.760	1.760	-0.719	0.682
170F	-0.490	-1.574	1.197	0.710	1.030	0.687	2.053	2.053	-1.574	0.516
171Q	-0.540	-1.041	1.300	0.425	1.039	0.707	1.640	1.640	-1.041	0.504
172L	-0.819	-0.677	1.150	0.205	0.884	0.687	0.471	1.150	-0.819	0.272
173H	-1.097	-0.677	1.244	0.023	1.002	0.686	0.531	1.244	-1.097	0.245
174W	-0.104	0.047	1.459	0.025	1.203	0.702	0.439	1.459	-0.104	0.539
175A	-1.065	0.908	1.047	-0.133	0.838	0.665	0.711	1.047	-1.065	0.425
176P	-0.218	1.483	1.561	-0.116	1.303	1.284	0.275	1.561	-0.218	0.796
177S	-0.218	1.125	1.646	-0.370	1.403	0.683	0.228	1.646	-0.370	0.642
178L	0.907	0.896	1.954	-0.680	1.750	1.258	0.179	1.954	-0.680	0.895
179R	0.907	1.101	1.954	-1.061	1.750	1.258	0.179	1.954	-1.061	0.870
180P	1.135	0.191	1.702	-1.376	1.431	1.239	-0.040	1.702	-1.376	0.611
181E	0.857	-0.372	1.552	-1.620	1.276	1.218	-1.210	1.552	-1.620	0.243
182A	1.205	-0.338	1.515	-1.772	1.257	1.215	-1.057	1.515	-1.772	0.289

183G	0.357	-0.663	1.001	-1.931	0.793	0.595	-0.621	1.001	-1.931	-0.067
184A	0.667	-1.290	1.057	-1.677	0.829	0.617	-0.954	1.057	-1.677	-0.107
185V	-0.332	-0.715	0.589	-1.280	0.446	0.019	-0.606	0.589	-1.280	-0.268
186L	-0.332	-0.080	0.589	-0.686	0.446	0.019	-0.606	0.589	-0.686	-0.093
187N	-0.199	0.215	0.926	-0.572	0.856	0.619	-0.632	0.926	-0.632	0.173
188I	0.300	-0.599	1.197	-0.577	1.175	1.108	0.369	1.197	-0.599	0.425
189A	0.667	0.265	1.477	-0.484	1.358	1.726	0.047	1.726	-0.484	0.722
190E	0.667	-0.238	1.477	0.072	1.358	1.726	0.047	1.726	-0.238	0.730
191D	0.857	-0.723	1.449	0.840	1.367	2.174	0.151	2.174	-0.723	0.874
192H	0.730	-1.262	1.608	1.324	1.403	2.198	-0.148	2.198	-1.262	0.836
193L	0.730	-0.861	1.767	1.468	1.576	2.818	1.130	2.818	-0.861	1.233
194D	0.370	-0.771	1.440	1.116	1.212	2.218	0.146	2.218	-0.771	0.819
195W	0.067	-1.310	1.365	0.958	1.048	1.749	0.195	1.749	-1.310	0.582
196H	-0.332	-0.232	1.197	0.424	0.920	1.146	-0.127	1.197	-0.332	0.428
197A	0.383	-0.729	1.281	-0.020	0.911	1.141	-1.572	1.281	-1.572	0.199
198T	0.244	-0.238	1.337	-1.035	0.957	1.252	-1.590	1.337	-1.590	0.132
199M	0.756	-0.729	1.571	-1.599	1.175	1.246	-1.280	1.571	-1.599	0.163
200A	0.952	-0.615	1.608	-1.993	1.157	0.646	-1.506	1.608	-1.993	0.036
201E	0.952	0.217	1.608	-1.766	1.157	0.646	-1.506	1.608	-1.766	0.187
202Y	0.756	-0.358	1.412	-1.538	1.002	0.626	-2.557	1.412	-2.557	-0.094
203T	1.382	0.862	1.870	-1.420	1.595	1.203	-2.437	1.870	-2.437	0.436
204A	1.382	0.275	1.870	-1.622	1.595	1.203	-2.437	1.870	-2.437	0.324
205A	1.154	0.071	1.973	-1.990	1.704	1.228	-2.412	1.973	-2.412	0.247
206K	1.040	0.562	1.599	-2.288	1.458	1.211	-2.155	1.599	-2.288	0.204
207A	0.130	0.357	1.318	-2.501	1.312	1.196	-1.761	1.318	-2.501	0.007
208R	0.326	0.984	1.515	-2.380	1.467	1.216	-0.710	1.515	-2.380	0.345
209V	0.553	0.075	1.505	-2.169	1.422	1.216	0.301	1.505	-2.169	0.415
210L	0.553	0.171	1.047	-1.800	0.738	0.621	0.236	1.047	-1.800	0.224
211T	0.187	0.279	0.926	-1.564	0.729	0.623	1.835	1.835	-1.564	0.431
212G	0.054	-0.212	0.496	-1.490	0.255	-0.002	0.825	0.825	-1.490	-0.011
213G	0.054	-0.212	0.496	-1.677	0.255	-0.002	0.825	0.825	-1.677	-0.037
214V	0.768	-1.043	0.580	-1.885	0.246	-0.007	-0.620	0.768	-1.885	-0.280
215A	0.800	-0.408	0.375	-2.078	0.045	-0.027	-0.660	0.800	-2.078	-0.279
216V	-0.142	0.131	0.300	-2.131	0.100	-0.022	-0.225	0.300	-2.131	-0.284
217A	0.130	1.082	0.580	-1.833	0.465	0.467	-0.235	1.082	-1.833	0.094
218G	0.996	1.896	0.973	-1.178	0.793	0.955	-0.832	1.896	-1.178	0.515
219L	1.274	1.269	1.122	-0.092	0.948	0.975	0.338	1.274	-0.092	0.833
220D	1.774	1.473	1.674	0.822	1.431	1.598	-0.252	1.774	-0.252	1.217
221D	1.774	0.934	1.674	1.199	1.431	1.598	-0.252	1.774	-0.252	1.194
222S	1.546	0.191	1.683	0.620	1.476	1.598	-1.262	1.683	-1.262	0.836
223R	2.260	-0.869	1.767	-0.390	1.467	1.592	-2.707	2.260	-2.707	0.446
224A	1.046	-1.144	1.412	-1.483	1.157	1.109	-2.264	1.412	-2.264	-0.024
225A	-0.167	-0.516	1.057	-2.093	0.847	0.625	-1.820	1.057	-2.093	-0.295
226A	0.054	0.339	1.178	-2.075	1.011	1.094	-1.988	1.178	-2.075	-0.055
227L	0.149	0.698	0.739	-1.694	0.492	0.470	-1.987	0.739	-1.987	-0.162
228L	0.427	0.902	0.889	-0.905	0.647	0.490	-0.817	0.902	-0.905	0.233
229D	0.427	1.597	1.132	-0.119	0.920	0.509	0.413	1.597	-0.119	0.697
230G	0.427	0.962	1.132	0.430	0.920	0.509	0.413	1.132	0.413	0.685
231S	1.388	1.149	1.543	0.540	1.285	0.546	0.141	1.543	0.141	0.942
232P	1.736	0.197	1.505	0.231	1.267	0.542	0.295	1.736	0.197	0.825
233A	1.369	0.465	1.664	-0.509	1.422	0.678	0.303	1.664	-0.509	0.770
234Q	0.775	0.291	1.552	-1.138	1.458	0.679	0.891	1.552	-1.138	0.644
235V	0.724	0.614	1.393	-1.731	1.257	0.659	0.732	1.393	-1.731	0.521
236R	0.010	0.505	1.085	-1.961	0.938	0.644	0.763	1.085	-1.961	0.284
237V	0.142	0.319	1.515	-1.914	1.412	1.269	1.772	1.772	-1.914	0.645
238G	-0.819	0.990	1.103	-1.816	1.048	1.232	2.044	2.044	-1.816	0.540
239F	-0.224	0.722	1.216	-1.770	1.011	1.230	1.456	1.456	-1.770	0.520
240R	0.003	0.896	1.113	-1.890	0.902	1.205	1.430	1.430	-1.890	0.523
241L	0.370	0.083	1.477	-1.897	1.185	1.223	1.061	1.477	-1.897	0.500

242G	0.142	1.101	1.487	-1.780	1.230	1.223	0.051	1.487	-1.780	0.493
243E	0.857	1.048	1.552	-1.549	1.276	1.218	-1.210	1.552	-1.549	0.456
244P	0.857	0.269	1.552	-1.452	1.276	1.218	-1.210	1.552	-1.452	0.359
245A	1.932	0.538	1.963	-1.613	1.631	1.813	-1.672	1.963	-1.672	0.656
246A	0.990	0.441	1.889	-2.025	1.686	1.818	-1.237	1.889	-2.025	0.509
247R	0.857	1.255	1.552	-2.275	1.276	1.218	-1.210	1.552	-2.275	0.382
248E	0.490	0.980	1.188	-2.444	0.993	1.201	-0.842	1.201	-2.444	0.224
249L	0.623	0.405	1.617	-2.380	1.467	1.826	0.168	1.826	-2.380	0.532
250G	1.122	0.700	1.889	-2.024	1.786	2.315	1.169	2.315	-2.024	0.994
251V	0.990	-0.132	1.459	-1.647	1.312	1.690	0.160	1.690	-1.647	0.547
252R	0.629	-0.132	1.290	-0.771	1.121	1.710	0.453	1.710	-0.771	0.614
253D	0.629	-0.406	1.290	-0.094	1.121	1.710	0.453	1.710	-0.406	0.672
254A	0.035	-0.132	1.178	0.398	1.157	1.712	1.042	1.712	-0.132	0.770
255H	0.901	-0.132	1.571	0.476	1.485	2.199	0.444	2.199	-0.132	0.992
256L	0.901	-0.396	1.571	0.204	1.485	2.199	0.444	2.199	-0.396	0.915
257V	0.402	0.664	1.300	-0.319	1.166	1.710	-0.557	1.710	-0.557	0.624
258D	-0.313	1.299	1.234	-0.541	1.121	1.714	0.704	1.714	-0.541	0.746
259R	-0.035	1.299	1.225	-0.717	1.103	1.115	0.597	1.299	-0.717	0.655
260A	1.179	0.281	1.580	-0.330	1.412	1.598	0.153	1.598	-0.330	0.839
261F	2.045	0.772	1.973	0.544	1.741	2.086	-0.445	2.086	-0.445	1.245
262S	0.832	0.742	1.617	1.204	1.431	1.602	-0.001	1.617	-0.001	1.061
263D	0.895	-0.318	1.384	1.663	1.112	0.997	0.040	1.663	-0.318	0.825
264D	0.180	-0.498	1.300	1.184	1.121	1.003	1.486	1.486	-0.498	0.825
265L	0.180	-1.133	1.281	0.215	1.175	1.004	1.669	1.669	-1.133	0.627
266T	-0.098	-0.929	1.375	-0.700	1.294	1.003	1.730	1.730	-0.929	0.525
267L	-0.964	-0.564	0.982	-1.253	0.966	0.515	2.327	2.327	-1.253	0.287
268L	-1.464	-0.685	0.711	-1.457	0.647	0.027	1.326	1.326	-1.464	-0.128
269P	-0.471	-0.122	0.945	-1.166	0.793	0.041	1.051	1.051	-1.166	0.153
270V	-1.305	-0.576	0.608	-1.107	0.619	0.023	1.332	1.332	-1.305	-0.058
271A	-0.591	-0.122	0.935	-0.839	0.884	0.037	1.117	1.117	-0.839	0.203
272S	-0.243	0.505	0.898	-0.796	0.866	0.033	1.271	1.271	-0.796	0.362
273I	-0.243	0.009	0.898	-0.724	0.866	0.033	1.271	1.271	-0.724	0.301
274P	0.351	0.237	1.010	-0.744	0.829	0.031	0.682	1.010	-0.744	0.342
275V	0.351	0.505	1.253	-0.526	1.103	0.050	1.912	1.912	-0.526	0.664
276P	-0.294	0.505	0.982	-0.599	0.938	0.032	2.341	2.341	-0.599	0.558
277G	0.572	-0.058	1.113	-0.493	0.911	0.030	2.020	2.020	-0.493	0.585
278P	0.206	-0.146	0.748	-0.836	0.629	0.012	2.388	2.388	-0.836	0.429
279V	-0.142	-0.504	0.786	-1.187	0.647	0.016	2.235	2.235	-1.187	0.264
280G	0.357	-0.613	0.814	-1.401	0.692	0.486	2.006	2.006	-1.401	0.335
281V	0.130	-1.240	0.823	-1.338	0.738	0.486	0.995	0.995	-1.338	0.085
282L	-0.585	-1.144	0.496	-1.115	0.474	0.473	1.210	1.210	-1.144	-0.027
283D	-0.218	-0.939	0.618	-0.976	0.483	0.471	-0.388	0.618	-0.976	-0.136
284A	-0.446	-1.478	0.627	-1.185	0.528	0.471	-1.399	0.627	-1.478	-0.412
285L	-0.079	-1.682	0.748	-1.652	0.537	0.470	-2.998	0.748	-2.998	-0.665
286A	0.636	-1.478	0.832	-1.975	0.528	0.464	-4.443	0.832	-4.443	-0.776
287A	-0.578	-0.665	0.477	-2.263	0.218	-0.019	-3.999	0.477	-3.999	-0.975
288A	-0.578	0.191	0.477	-2.263	0.218	-0.019	-3.999	0.477	-3.999	-0.853
289A	0.269	0.095	0.991	-2.322	0.683	0.600	-4.435	0.991	-4.435	-0.588
290L	0.547	0.722	1.141	-2.124	0.838	0.620	-3.265	1.141	-3.265	-0.217
291A	0.180	0.830	1.019	-1.863	0.829	0.622	-1.666	1.019	-1.863	-0.007
292R	0.408	1.189	1.010	-1.396	0.784	0.622	-0.655	1.189	-1.396	0.280
293S	0.041	0.375	0.889	-1.152	0.774	0.623	0.943	0.943	-1.152	0.356
294V	0.756	0.147	1.216	-0.995	1.039	0.637	0.728	1.216	-0.995	0.504
295G	0.756	0.243	1.216	-1.138	1.039	0.637	0.728	1.216	-1.138	0.497
296V	0.850	-0.709	0.776	-1.111	0.519	0.012	0.730	0.850	-1.111	0.153
297P	0.572	-0.613	0.627	-1.275	0.364	-0.008	-0.440	0.627	-1.275	-0.110
298A	0.300	-0.432	0.608	-1.451	0.355	-0.008	-0.707	0.608	-1.451	-0.191
299G	0.073	-0.432	0.618	-1.853	0.401	-0.008	-1.718	0.618	-1.853	-0.417
300A	0.939	-1.156	1.010	-1.923	0.729	0.480	-2.316	1.010	-2.316	-0.320

301I	0.939	-0.665	0.767	-1.841	0.455	0.461	-3.546	0.939	-3.546	-0.490
302A	0.572	0.515	0.646	-1.342	0.446	0.462	-1.947	0.646	-1.947	-0.092
303D	0.541	0.341	0.851	-0.917	0.647	0.482	-1.906	0.851	-1.906	0.005
304A	0.819	0.616	1.001	-0.572	0.802	0.502	-0.736	1.001	-0.736	0.347
305V	0.743	0.519	1.075	-0.318	0.774	0.505	-0.807	1.075	-0.807	0.356
306T	0.876	1.243	1.505	-0.073	1.248	1.129	0.202	1.505	-0.073	0.876
307S	0.010	1.565	1.113	-0.153	0.920	0.642	0.800	1.565	-0.153	0.700
308F	0.237	0.800	1.103	-0.490	0.875	0.642	1.810	1.810	-0.490	0.711
309R	0.737	1.788	1.655	-1.181	1.358	1.265	1.221	1.788	-1.181	0.977
310V	0.541	0.974	1.617	-1.389	1.376	1.865	1.447	1.865	-1.389	0.919
311G	0.395	1.646	1.898	-1.323	1.695	2.469	1.287	2.469	-1.323	1.152
312R	1.110	0.922	1.963	-0.816	1.741	2.465	0.025	2.465	-0.816	1.059
313H	1.337	0.013	1.860	-0.626	1.631	2.440	0.000	2.440	-0.626	0.951
314R	1.337	-0.078	1.860	-0.888	1.631	2.440	0.000	2.440	-0.888	0.901
315A	0.743	-0.987	1.748	-1.540	1.668	2.442	0.588	2.442	-1.540	0.666
316E	0.610	-0.987	1.318	-1.946	1.194	1.817	-0.421	1.817	-1.946	0.226
317V	0.244	-1.023	1.038	-2.314	1.011	1.199	-0.099	1.199	-2.314	0.008
318V	0.111	-0.300	0.608	-2.251	0.537	0.574	-1.109	0.608	-2.251	-0.261
319A	0.610	-0.528	0.879	-1.927	0.856	1.063	-0.107	1.063	-1.927	0.121
320V	0.477	-0.038	0.543	-1.508	0.446	0.463	-0.081	0.543	-1.508	0.043
321A	0.206	-0.348	0.524	-1.065	0.437	0.464	-0.348	0.524	-1.065	-0.019
322D	0.768	-0.444	0.842	-0.799	0.601	0.482	-0.896	0.842	-0.896	0.079
323G	0.515	-0.444	1.094	-0.881	0.838	0.501	0.446	1.094	-0.881	0.296
324I	0.515	-0.532	1.094	-1.152	0.838	0.501	0.446	1.094	-1.152	0.244
325T	1.015	0.648	1.365	-1.032	1.157	0.990	1.447	1.447	-1.032	0.799
326Y	1.015	0.988	1.365	-0.607	1.157	0.990	1.447	1.447	-0.607	0.908
327V	1.065	1.395	1.524	0.334	1.358	1.010	1.607	1.607	0.334	1.185
328D	1.932	1.982	2.113	1.121	2.014	1.603	1.350	2.113	1.121	1.731
329D	1.736	2.052	1.917	1.305	1.859	1.583	0.299	2.052	0.299	1.536
330S	2.185	1.872	1.860	0.818	1.777	1.584	0.008	2.185	0.008	1.443
331K	2.861	1.107	2.281	0.423	2.096	1.623	-0.694	2.861	-0.694	1.385
332A	2.362	0.275	2.253	0.305	2.050	1.153	-0.465	2.362	-0.465	1.133
333T	1.862	0.275	2.141	1.199	1.905	1.284	-0.188	2.141	-0.188	1.211
334N	1.584	0.598	1.991	1.961	1.750	1.264	-1.358	1.991	-1.358	1.113
335P	1.356	-0.011	1.543	2.272	1.112	0.669	-2.434	2.272	-2.434	0.644
336H	1.489	0.485	1.973	1.459	1.586	1.294	-1.424	1.973	-1.424	0.980
337A	1.293	0.299	1.776	0.173	1.431	1.274	-2.475	1.776	-2.475	0.539
338A	1.261	0.095	1.627	-0.984	1.276	1.253	-2.202	1.627	-2.202	0.332
339R	0.895	0.095	1.262	-1.374	0.993	1.236	-1.834	1.262	-1.834	0.182
340A	0.180	-1.125	1.019	-1.370	0.829	0.622	-1.666	1.019	-1.666	-0.216
341S	0.180	-0.767	1.019	-1.179	0.829	0.622	-1.666	1.019	-1.666	-0.137
342V	-0.073	-0.809	1.272	-1.266	1.066	0.641	-0.324	1.272	-1.266	0.072
343L	-0.205	-0.809	1.085	-1.407	0.866	0.035	-0.103	1.085	-1.407	-0.077
344A	-0.073	-0.701	1.515	-1.431	1.339	0.660	0.906	1.515	-1.431	0.317
345Y	-0.717	-1.204	1.244	-1.383	1.175	0.641	1.335	1.335	-1.383	0.156
346P	-0.717	-1.121	1.244	-1.356	1.175	0.641	1.335	1.335	-1.356	0.172
347R	-0.768	-1.480	1.346	-1.596	1.185	0.661	0.923	1.346	-1.596	0.039
348V	-1.407	-1.666	1.206	-2.056	1.166	0.663	2.254	2.254	-2.056	0.023
349V	-1.154	-0.943	0.954	-2.406	0.929	0.644	0.912	0.954	-2.406	-0.152
350W	-0.926	-1.051	0.702	-2.651	0.610	0.625	0.693	0.702	-2.651	-0.286
351I	-0.831	-0.753	0.262	-2.571	0.091	0.000	0.694	0.694	-2.571	-0.444
352A	-1.179	0.403	0.300	-2.414	0.109	0.004	0.540	0.540	-2.414	-0.320
353G	-1.527	1.030	0.337	-2.229	0.127	0.008	0.386	1.030	-2.229	-0.267
354G	-0.534	0.403	0.767	-2.204	0.747	0.577	0.429	0.767	-2.204	0.026
355L	0.332	0.632	0.898	-2.247	0.720	0.575	0.108	0.898	-2.247	0.145
356L	0.332	0.632	0.898	-2.348	0.720	0.575	0.108	0.898	-2.348	0.131
357K	0.383	0.926	1.057	-2.063	0.920	0.595	0.267	1.057	-2.063	0.298
358G	-0.559	0.095	0.982	-1.691	0.975	0.601	0.702	0.982	-1.691	0.158
359A	0.155	0.043	1.225	-0.791	1.139	1.215	0.534	1.225	-0.791	0.503

360S	0.869	-0.054	1.309	-0.158	1.130	1.210	-0.911	1.309	-0.911	0.485
361L	1.002	-0.909	1.188	0.314	0.856	1.215	-1.002	1.215	-1.002	0.381
362H	0.408	-0.705	1.075	0.102	0.893	1.216	-0.414	1.216	-0.705	0.368
363A	0.408	-0.909	1.075	-0.453	0.893	1.216	-0.414	1.216	-0.909	0.260
364E	0.130	-0.909	0.926	-1.368	0.738	1.196	-1.584	1.196	-1.584	-0.124
365V	0.446	-0.629	1.001	-1.920	0.774	1.208	-2.074	1.208	-2.074	-0.171
366A	0.446	0.281	0.842	-2.412	0.601	0.588	-3.351	0.842	-3.351	-0.429
367A	0.724	0.077	0.991	-2.258	0.756	0.608	-2.181	0.991	-2.258	-0.183
368M	0.496	-0.019	1.094	-2.014	0.866	0.633	-2.156	1.094	-2.156	-0.157
369A	0.149	0.722	1.132	-1.613	0.884	0.637	-2.310	1.132	-2.310	-0.057
370S	-0.218	0.722	1.010	-1.423	0.875	0.639	-0.711	1.010	-1.423	0.128
371R	0.010	-0.230	1.001	-1.522	0.829	0.639	0.299	1.001	-1.522	0.146
372L	0.408	-1.248	1.010	-1.821	0.784	0.622	-0.655	1.010	-1.821	-0.129
373V	0.041	-1.368	0.889	-2.011	0.774	0.623	0.943	0.943	-2.011	-0.015
374G	-0.951	-0.645	0.655	-2.192	0.629	0.608	1.219	1.219	-2.192	-0.097
375A	-1.723	-0.458	0.085	-2.258	0.136	-0.014	1.541	1.541	-2.258	-0.384
376V	-0.781	0.081	0.160	-2.399	0.082	-0.020	1.106	1.106	-2.399	-0.253
377L	-0.281	0.990	0.711	-2.596	0.565	0.603	0.517	0.990	-2.596	0.073
378I	-0.009	1.195	0.991	-2.359	0.929	1.092	0.508	1.195	-2.359	0.335
379G	0.123	1.519	1.421	-1.988	1.403	1.717	1.517	1.717	-1.988	0.816
380R	0.490	0.796	1.543	-1.419	1.412	1.715	-0.082	1.715	-1.419	0.637
381D	1.205	-0.017	1.627	-1.195	1.403	1.710	-1.527	1.710	-1.527	0.458
382R	1.476	0.019	1.646	-1.284	1.412	1.710	-1.260	1.710	-1.284	0.531
383A	1.249	-0.795	1.655	-1.728	1.458	1.710	-2.270	1.710	-2.270	0.183
384A	1.476	-0.999	1.552	-2.000	1.349	1.685	-2.296	1.685	-2.296	0.109
385V	0.977	-0.144	1.281	-2.272	1.030	1.196	-3.297	1.281	-3.297	-0.176
386A	0.130	0.766	0.767	-2.276	0.565	0.576	-2.861	0.767	-2.861	-0.333
387E	0.408	0.856	0.917	-2.045	0.720	0.596	-1.691	0.917	-2.045	-0.034
388A	0.541	0.281	1.346	-1.798	1.194	1.221	-0.682	1.346	-1.798	0.300
389L	0.907	0.640	1.627	-0.997	1.376	1.839	-1.003	1.839	-1.003	0.627
390S	0.907	1.383	1.627	-0.374	1.376	1.839	-1.003	1.839	-1.003	0.822
391R	0.547	0.431	1.543	0.343	1.285	1.259	-0.757	1.543	-0.757	0.664
392H	1.046	-0.023	1.814	0.744	1.604	1.748	0.244	1.814	-0.023	1.025
393A	1.394	-0.210	1.776	0.917	1.586	1.744	0.398	1.776	-0.210	1.086
394P	1.116	-0.306	1.870	0.805	1.704	1.743	0.458	1.870	-0.306	1.056
395D	0.617	-0.174	1.318	0.628	1.221	1.120	1.047	1.318	-0.174	0.825
396V	0.250	-0.809	1.038	0.018	1.039	0.501	1.369	1.369	-0.809	0.487
397P	0.496	-0.809	1.365	-0.470	1.412	0.544	2.542	2.542	-0.809	0.726
398V	0.130	-1.168	1.001	-0.991	1.130	0.526	2.911	2.911	-1.168	0.506
399V	-0.736	-0.444	0.608	-1.404	0.802	0.039	3.509	3.509	-1.404	0.339
400Q	-0.370	0.227	0.730	-1.549	0.811	0.037	1.910	1.910	-1.549	0.257
401V	-0.142	0.275	0.477	-1.762	0.492	0.019	1.690	1.690	-1.762	0.150
402V	0.585	0.862	0.926	-1.912	0.866	0.617	1.075	1.075	-1.912	0.431
403A	1.451	1.585	1.318	-1.700	1.194	1.104	0.477	1.585	-1.700	0.776
404G	1.401	1.471	1.188	-1.310	0.975	1.081	0.355	1.471	-1.310	0.737
405E	1.995	1.203	1.300	-0.653	0.938	1.080	-0.234	1.995	-0.653	0.804
406D	1.963	0.628	1.412	-0.343	0.993	1.095	-0.877	1.963	-0.877	0.696
407T	1.963	0.580	1.655	-0.332	1.267	1.114	0.353	1.963	-0.332	0.943
408G	1.736	-0.007	1.664	-0.813	1.312	1.114	-0.658	1.736	-0.813	0.621
409M	1.571	-0.060	1.533	-1.026	1.103	0.535	-0.591	1.571	-1.026	0.438
410P	0.705	-0.042	1.141	-1.225	0.774	0.047	0.007	1.141	-1.225	0.201
411A	0.869	-0.042	1.272	-1.174	0.984	0.627	-0.060	1.272	-1.174	0.354
412T	0.275	-0.138	1.160	-1.338	1.020	0.629	0.528	1.160	-1.338	0.305
413V	0.673	-0.629	1.412	-1.399	1.248	0.630	0.803	1.412	-1.399	0.391
414E	0.307	-0.496	1.047	-1.592	0.966	0.613	1.172	1.172	-1.592	0.288
415V	0.307	-1.168	1.047	-1.457	0.966	0.613	1.172	1.172	-1.457	0.211
416P	0.067	-1.276	0.636	-1.256	0.720	0.611	1.754	1.754	-1.276	0.179
417V	0.067	-1.095	0.636	-1.099	0.720	0.611	1.754	1.754	-1.099	0.227
418A	-1.008	-1.095	0.225	-1.071	0.364	0.017	2.215	2.215	-1.095	-0.050

419C	-0.142	-1.095	0.618	-0.887	0.692	0.504	1.617	1.617	-1.095	0.187
420V	-0.509	-0.300	0.253	-0.866	0.410	0.487	1.986	1.986	-0.866	0.209
421L	-0.142	0.335	0.375	-0.717	0.419	0.485	0.387	0.485	-0.717	0.163
422D	0.085	1.078	0.823	-0.794	1.057	1.080	1.462	1.462	-0.794	0.685
423V	0.629	1.371	1.309	-0.869	1.467	1.551	0.831	1.551	-0.869	0.898
424A	1.495	1.467	1.702	-0.701	1.795	2.038	0.234	2.038	-0.701	1.147
425K	2.437	2.094	2.234	-0.235	2.424	2.627	-0.136	2.627	-0.235	1.635
426D	1.938	1.838	1.963	0.115	2.105	2.139	-1.138	2.139	-1.138	1.280
427D	2.532	1.790	2.075	0.149	2.069	2.137	-1.726	2.532	-1.726	1.290
428K	2.893	1.155	2.403	-0.477	2.433	2.737	-0.742	2.893	-0.742	1.486
429A	2.861	0.950	2.150	-1.112	1.950	2.162	-0.766	2.861	-1.112	1.171
430G	1.995	0.950	1.758	-1.579	1.622	1.674	-0.169	1.995	-1.579	0.893
431E	1.723	0.323	1.477	-1.632	1.257	1.186	-0.160	1.723	-1.632	0.596
432T	1.495	-0.348	1.029	-1.530	0.619	0.591	-1.235	1.495	-1.530	0.089
433V	1.495	-0.953	1.029	-1.576	0.619	0.591	-1.235	1.495	-1.576	-0.004
434G	0.901	-0.366	0.917	-1.784	0.656	0.592	-0.646	0.917	-1.784	0.039
435A	0.142	-0.993	0.580	-2.030	0.337	0.010	-0.675	0.580	-2.030	-0.376
436A	0.142	-0.993	0.580	-2.182	0.337	0.010	-0.675	0.580	-2.182	-0.397
437V	0.509	-1.089	0.702	-2.193	0.346	0.009	-2.274	0.702	-2.274	-0.570
438M	0.281	-0.993	0.711	-2.060	0.392	0.009	-3.284	0.711	-3.284	-0.706
439T	-0.085	-0.879	0.589	-1.928	0.382	0.010	-1.686	0.589	-1.928	-0.514
440A	-0.085	-1.370	0.589	-1.873	0.382	0.010	-1.686	0.589	-1.873	-0.576
441A	0.281	-0.556	0.711	-1.986	0.392	0.009	-3.284	0.711	-3.284	-0.633
442V	0.680	0.257	0.720	-2.063	0.346	-0.009	-4.239	0.720	-4.239	-0.615
443A	0.617	0.239	0.954	-2.237	0.665	0.596	-4.281	0.954	-4.281	-0.492
444A	0.749	0.239	1.384	-2.327	1.139	1.221	-3.272	1.384	-3.272	-0.124
445A	0.351	0.730	1.375	-2.528	1.185	1.238	-2.317	1.375	-2.528	0.005
446R	0.718	1.089	1.496	-2.721	1.194	1.236	-3.916	1.496	-3.916	-0.129
447R	0.964	0.902	1.823	-2.743	1.567	1.279	-2.742	1.823	-2.743	0.150
448M	0.964	0.628	2.066	-2.384	1.841	1.298	-1.512	2.066	-2.384	0.414
449A	1.192	1.233	2.057	-1.786	1.795	1.298	-0.502	2.057	-1.786	0.755
450Q	1.559	1.137	1.898	-0.861	1.640	1.162	-0.510	1.898	-0.861	0.861
451P	1.622	0.441	1.664	-0.130	1.321	0.557	-0.468	1.664	-0.468	0.715
452G	1.653	-0.122	1.552	0.327	1.267	0.542	0.176	1.653	-0.122	0.771
453D	0.939	-0.749	1.468	0.251	1.276	0.547	1.621	1.621	-0.749	0.765
454T	-0.022	-0.929	1.057	-0.292	0.911	0.510	1.893	1.893	-0.929	0.447
455V	-0.022	-1.420	0.814	-1.148	0.638	0.491	0.662	0.814	-1.420	0.002
456L	-0.250	-0.697	1.066	-1.633	0.957	0.510	0.882	1.066	-1.633	0.119
457L	-0.749	-0.492	0.795	-1.876	0.638	0.021	-0.119	0.795	-1.876	-0.255
458A	-0.717	0.568	0.589	-1.630	0.437	0.001	-0.160	0.589	-1.630	-0.130
459P	-0.351	0.393	0.711	-1.409	0.446	-0.000	-1.758	0.711	-1.758	-0.281
460A	0.642	0.574	0.945	-1.144	0.592	0.014	-2.034	0.945	-2.034	-0.059
461G	0.642	1.064	0.963	-0.945	0.537	0.013	-2.217	1.064	-2.217	0.008
462A	1.141	0.263	1.234	-0.303	0.856	0.502	-1.216	1.234	-1.216	0.354
463S	1.388	0.754	1.318	0.300	0.957	0.525	-1.273	1.388	-1.273	0.567
464F	0.673	0.525	1.253	0.919	0.911	0.530	-0.012	1.253	-0.012	0.686
465D	0.642	0.293	1.459	1.032	1.112	0.550	0.029	1.459	0.029	0.731
466Q	0.869	-0.246	1.449	0.789	1.066	0.550	1.039	1.449	-0.246	0.788
467F	0.338	-0.198	1.552	0.210	1.148	0.549	1.212	1.552	-0.198	0.687
468T	1.053	0.790	1.617	-0.325	1.194	0.545	-0.050	1.617	-0.325	0.689
469G	1.053	0.926	1.617	-0.614	1.194	0.545	-0.050	1.617	-0.614	0.667
470Y	0.939	0.874	1.720	-0.745	1.294	1.127	-0.214	1.720	-0.745	0.714
471A	1.881	1.281	1.776	-0.648	1.294	1.123	-0.465	1.881	-0.648	0.892
472D	2.045	1.107	1.907	-0.784	1.504	1.702	-0.532	2.045	-0.784	0.993
473R	1.818	0.568	1.917	-1.068	1.549	1.702	-1.542	1.917	-1.542	0.706
474G	1.356	0.245	1.599	-1.475	1.267	1.687	-1.623	1.687	-1.623	0.437
475E	1.356	-0.382	1.599	-1.651	1.267	1.687	-1.623	1.687	-1.651	0.322
476A	1.053	-1.053	1.524	-1.617	1.103	1.218	-1.573	1.524	-1.617	0.093
477F	0.920	-0.240	1.094	-1.355	0.629	0.594	-2.583	1.094	-2.583	-0.134

478A	0.326	-0.066	0.982	-1.232	0.665	0.595	-1.994	0.982	-1.994	-0.103
479T	0.098	-0.162	1.085	-1.380	0.774	0.620	-1.969	1.085	-1.969	-0.133
480A	0.098	-0.977	1.085	-1.663	0.774	0.620	-1.969	1.085	-1.969	-0.290
481V	0.446	-0.164	1.029	-2.073	0.811	0.618	-1.631	1.029	-2.073	-0.138
482R	-0.193	0.187	0.889	-2.351	0.793	0.619	-0.299	0.889	-2.351	-0.051
483A	-0.256	-0.372	1.122	-2.609	1.112	1.224	-0.341	1.224	-2.609	-0.017
484V	-0.389	-0.118	0.664	-2.635	1.431	1.284	-0.341	1.431	-2.635	-0.015
485I	-0.155	0.233	0.328	-2.483	1.759	1.343	-1.940	1.759	-2.483	-0.131
486R	-0.420	0.812	-0.560	-2.028	1.604	0.778	-2.949	1.604	-2.949	-0.395

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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 VLDPLGPGAPVLVAGGRVTGQAVAAVLTRFGATPTVCDDDPVMLRPHAERGLPTVSSSDAVQQITG YALVVASPGFSPATPLLAAAAAAGVPIWGDVELAWRLDAAGCYGPPRSWLVVGTNGKTTTTSM AMLIAGGRRAVLCGNIGSAVLDVLEDEPAELLAVELSSFQLHWAPSLRPEAGAVLNIAEDHLDWHATMA EYTAAKARVLTGGVAVAGLDDSRAAALLDGSPAQVRVGFRLGEPAARELGVRDAHLVDRAFSDDLTL LPVASIPVPGPVGVLDALAAAALARSVGPAGAIADAVTSFRVGRHRAEVAVADGITYVDDSKATNP HAARASVLAYPRVWVIAGGLLKASLHAEVAAMASRLVGAVLIGRDRAAAVAEALSRHAPDVPVQV AGEDTGMPATVEVPVACVLDVAKDDKAGETVGAAVMTAAVAAAARRMAQP GDTVLLAPAGASFDQFT GYADRGEAFATAVRAVIR ⁴⁸⁶
Hydrophili city	¹ VLDPLGPGAPVLVAGGRVTGQAVAAVLTRFGAT <u>PTVCDDDP</u> VMLRPHAERGL <u>PTVSSSDAVQQITG</u> YALVVASPGFSPATPLLAAAAAAGVPIWGDVELAWRLDAAGCYGPPRSWLVV <u>TGTNGKTTTT</u> SM AMLIAGGRRAVLCGNIGSAVLDVLEDEPAELLAVELSSFQLHWAPSLRPEAGAVLNIAEDHLDWHATMA EYTAAKARVLTGGVAVAGL <u>DDSRAAA</u> LLDGSPAQVRVGFRL <u>GEPAAREL</u> GVRDAHLV <u>DRAFSDDLTL</u> LPVASIPVPGPVGVLDALAAAALARSVGPAGAIADAVTSFRVGRHRAEVAVADGI <u>TYVDDSKATNP</u> HAARASVLAYPRVWVIAGGLLKASLHAEVAAMASRLVGAVLIGRDRAAAVAEALSRHAPDVPVQV <u>AGEDTGMPATVEVPVACVLDVAKDDKAGETV</u> GAAVMTAAVAAAARRMAQP GDTVLLAPAGASFDQFT <u>GYADRGEAFATAVRAVIR</u> ⁴⁸⁶
Flexibility	¹ VLDPLGPGAPVLVAGGRVTGQAVAAVLTRFGATPTVCDDDPVMLRPHAER <u>RGLPTVSSSDAVQQITG</u> YALVVASPGFSPATPLLAAAAAAGVPIWGDVELAWRLDAAGCYGPPRSW <u>LVVGTNGKTTTT</u> SM AMLIAGGRRAVLCGNIGSAVLDVLEDEPAELLAVELSSFQLHWAPSLRPEAGAVLNIAEDHLDWHATMA EYTAAKARVLTGGVAVAGLDDSRAAALLDGSPAQVRVGFRLGEPAARELGVRDAHLVDRAFSDDLTL LPVASIPVPGPVGVLDALAAAALARSVGPAGAIADAVTSFRVGRHRAEVAVADGI <u>YVDDSKA</u> TNP HAARASVLAYPRVWVIAGGLLKASLHAEVAAMASRLVGAVLIGRDRAAAVAEALSRHAPDVPVQV AGEDTGMPATVEVPVACVLD <u>DVAKDDK</u> AGETVGAAVMTAAVAAAARRMAQP GDTVLLAPAGASFDQFT GYADRGEAFATAVRAVIR ⁴⁸⁶

Accessibility	<p>1VLDPLGPGAPVLVAGGRVTGQAVAAVLTRFGATPTVCDDDPVMLRPHAERGLPTVSSSDAVQQITG YALVVASPGFSPATPLLAAAAAAGVPIWGDVELAWRLDAAGCYGPPRSWLVVVTGTNGKTTTTSM AMLIAGGRRAVLCGNIGSAVLDVLEDEPAELLAVELSSFQLHWAPSLRPEAGAVLNIAEDHLDW HATMAEYTAAKARVLTGGVAVAGLDDSRAAALLDGSPAQVRVGFRLGEPAAARELGVRDAHLV DRAFSDDLTL LPVASIPVPGPVGVLDALAAAALARSVGVPAGAIADAVTSFRVGRHRAEVVA VADGITYVDDSKATNP HAARASVLAAYPRVWVIAGGLLKGASLHAEVAAMASRLVGAVLIGR DRAAAVAEALSRHAPDVPVQV VAGEDTGMPATVEVPVACVLDVAKDDKAGETVGAAVMTAAVA AARRMAQPGDTVLLAPAGASFDQFT GYADRGEAFATAVRAVIR⁴⁸⁶</p>
Turns	<p>1VLDPLGPGAPVLVAGGRVTGQAVAAVLTRFGATPTVCDDDPVMLRPHAERGLPTVSSSDAVQQITG YALVVASPGFSPATPLLAAAAAAGVPIWGDVELAWRLDAAGCYGPPRSWLVVVTGTNGKTTTTSM AMLIAGGRRAVLCGNIGSAVLDVLEDEPAELLAVELSSFQLHWAPSLRPEAGAVLNIAEDHLDW HATMAEYTAAKARVLTGGVAVAGLDDSRAAALLDGSPAQVRVGFRLGEPAAARELGVRDAHLV DRAFSDDLTL LPVASIPVPGPVGVLDALAAAALARSVGVPAGAIADAVTSFRVGRHRAEVVA VADGITYVDDSKATNP HAARASVLAAYPRVWVIAGGLLKGASLHAEVAAMASRLVGAVLIGR DRAAAVAEALSRHAPDVPVQV VAGEDTGMPATVEVPVACVLDVAKDDKAGETVGAAVMTAAVA AARRMAQPGDTVLLAPAGASFDQFT GYADRGEAFATAVRAVIR⁴⁸⁶</p>
Exposed Surface	<p>1VLDPLGPGAPVLVAGGRVTGQAVAAVLTRFGATPTVCDDDPVMLRPHAERGLPTVSSSDAVQQITG YALVVASPGFSPATPLLAAAAAAGVPIWGDVELAWRLDAAGCYGPPRSWLVVVTGTNGKTTTTSM AMLIAGGRRAVLCGNIGSAVLDVLEDEPAELLAVELSSFQLHWAPSLRPEAGAVLNIAEDHLDW HATMAEYTAAKARVLTGGVAVAGLDDSRAAALLDGSPAQVRVGFRLGEPAAARELGVRDAHLV DRAFSDDLTL LPVASIPVPGPVGVLDALAAAALARSVGVPAGAIADAVTSFRVGRHRAEVVA VADGITYVDDSKATNP HAARASVLAAYPRVWVIAGGLLKGASLHAEVAAMASRLVGAVLIGR DRAAAVAEALSRHAPDVPVQV VAGEDTGMPATVEVPVACVLDVAKDDKAGETVGAAVMTAAVA AARRMAQPGDTVLLAPAGASFDQFT GYADRGEAFATAVRAVIR⁴⁸⁶</p>
Polarity	<p>1VLDPLGPGAPVLVAGGRVTGQAVAAVLTRFGATPTVCDDDPVMLRPHAERGLPTVSSSDAVQQITG YALVVASPGFSPATPLLAAAAAAGVPIWGDVELAWRLDAAGCYGPPRSWLVVVTGTNGKTTTTSM AMLIAGGRRAVLCGNIGSAVLDVLEDEPAELLAVELSSFQLHWAPSLRPEAGAVLNIAEDHLDW HATMAEYTAAKARVLTGGVAVAGLDDSRAAALLDGSPAQVRVGFRLGEPAAARELGVRDAHLV DRAFSDDLTL LPVASIPVPGPVGVLDALAAAALARSVGVPAGAIADAVTSFRVGRHRAEVVA VADGITYVDDSKATNP HAARASVLAAYPRVWVIAGGLLKGASLHAEVAAMASRLVGAVLIGR DRAAAVAEALSRHAPDVPVQV VAGEDTGMPATVEVPVACVLDVAKDDKAGETVGAAVMTAAVA AARRMAQPGDTVLLAPAGASFDQFT GYADRGEAFATAVRAVIR⁴⁸⁶</p>
Antigenic Propensity	<p>1VLDPLGPGAPVLVAGGRVTGQAVAAVLTRFGATPTVCDDDPVMLRPHAERGLPTVSSSDAVQQITG YALVVASPGFSPATPLLAAAAAAGVPIWGDVELAWRLDAAGCYGPPRSWLVVVTGTNGKTTTTSM AMLIAGGRRAVLCGNIGSAVLDVLEDEPAELLAVELSSFQLHWAPSLRPEAGAVLNIAEDHLDW HATMAEYTAAKARVLTGGVAVAGLDDSRAAALLDGSPAQVRVGFRLGEPAAARELGVRDAHLV DRAFSDDLTL LPVASIPVPGPVGVLDALAAAALARSVGVPAGAIADAVTSFRVGRHRAEVVA VADGITYVDDSKATNP HAARASVLAAYPRVWVIAGGLLKGASLHAEVAAMASRLVGAVLIGR DRAAAVAEALSRHAPDVPVQV VAGEDTGMPATVEVPVACVLDVAKDDKAGETVGAAVMTAAVA AARRMAQPGDTVLLAPAGASFDQFT GYADRGEAFATAVRAVIR⁴⁸⁶</p>

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