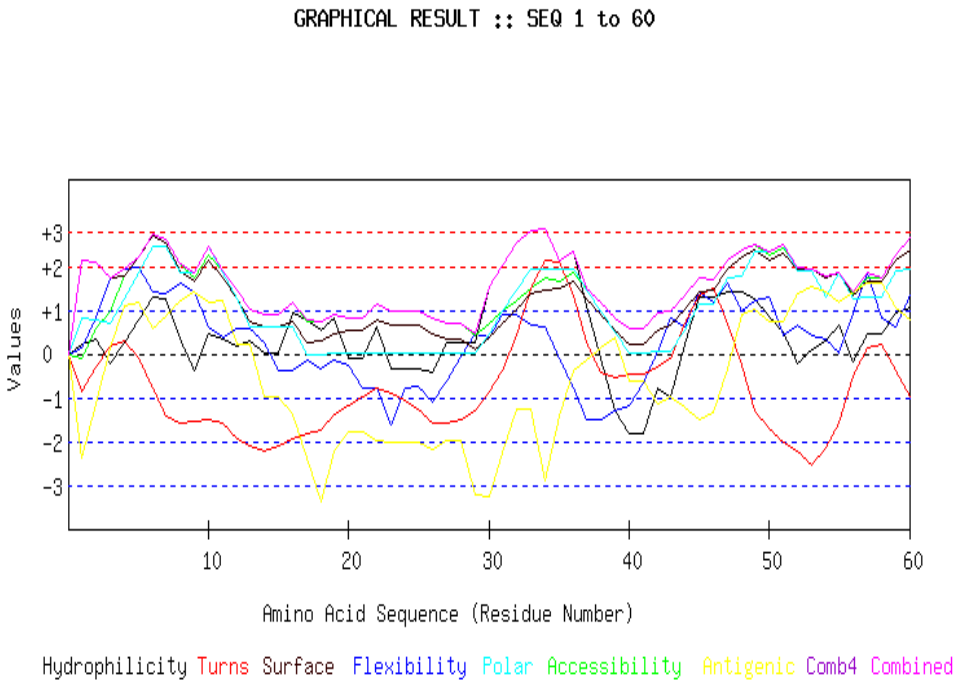
BcePred Prediction Server

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

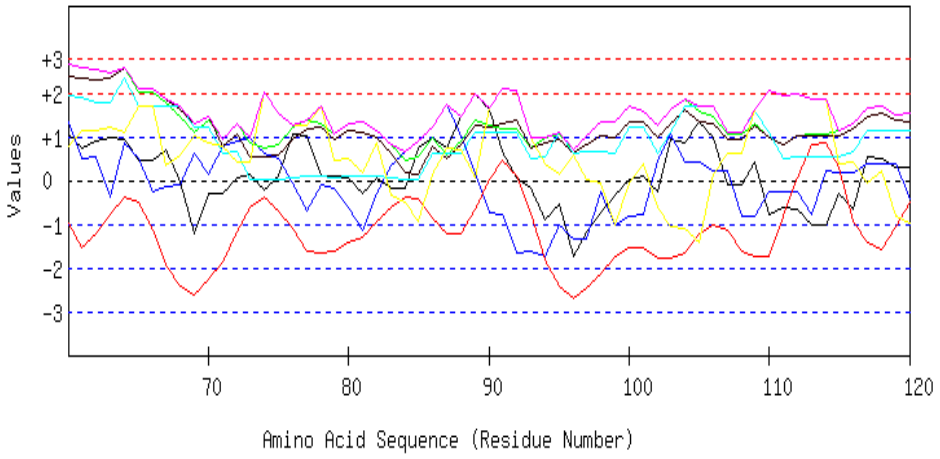
seqname=
Seq=MVNKPFERRSLLRGAGALTAASLAPWAAGCAADDDDALTFFFAANPDELRPRMRVVNEFQRRYPDIKVRA
LLSGPGVMQQLATFCAGGKCPDVLMAWELTYAELADRGVLLDLNTLLARDQAFAAELKSDSIGALYETFTFNGGQ
YAFPEQWSGNFLFYNKQLFDDAGVPPPPGSWERPWSFAEFLDAAQALTKQGRSGRDRQWGFVNAWVSFYAA
GLFAMNNGVPWSVPRMNPTHLNFDHDGFLEAVQFYADLTNKHKVAPSAAEQQSMSTADLFSVGKAGIALAGHW
RYQTFDRADGLDFDVAPLPIGPRGRAACSDIGVTGLAIAATSRRKDQAWEFVKFATGPVGQALIGESRLFVPVLR
SAINSHGFANAHRRVGNLAVLSEGPAYSEGLPVTPAWEKIAALMDRYFGPVLRGSRPATSLTGLSQAVDEVLRNP

Length=439

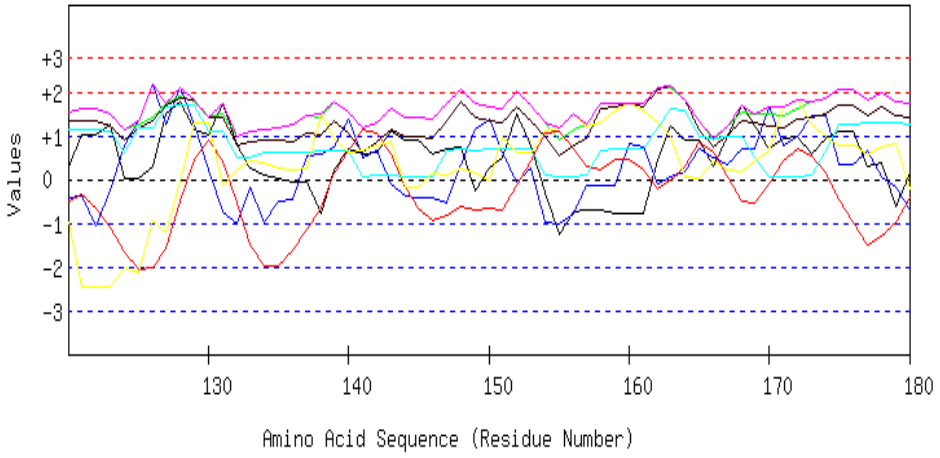
GRAPHICAL RESULT



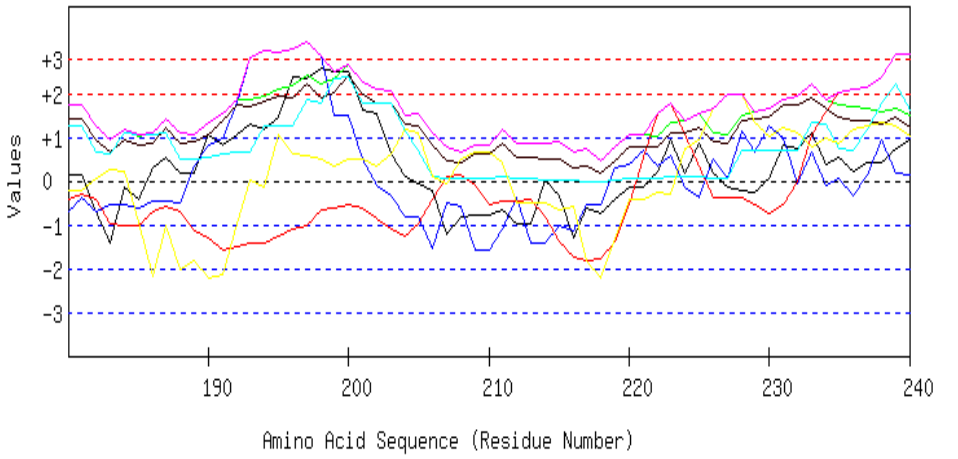
GRAPHICAL RESULT :: SEQ 61 to 120



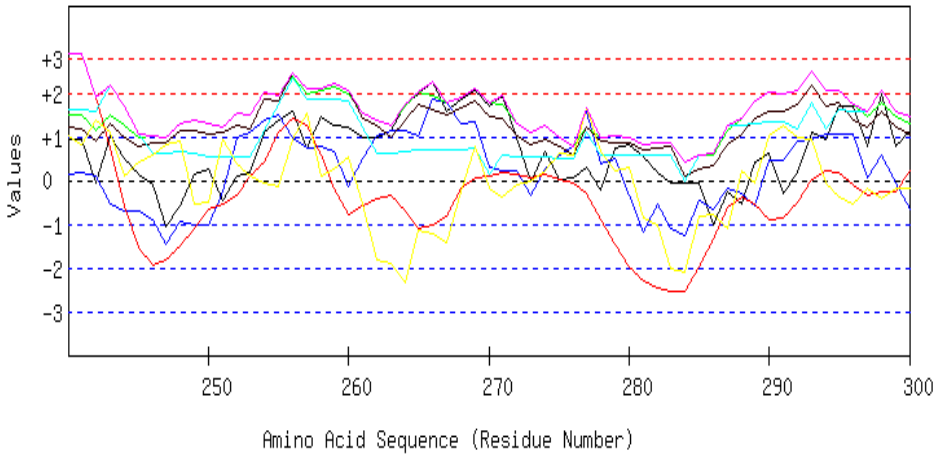
GRAPHICAL RESULT :: SEQ 121 to 180



GRAPHICAL RESULT :: SEQ 181 to 240

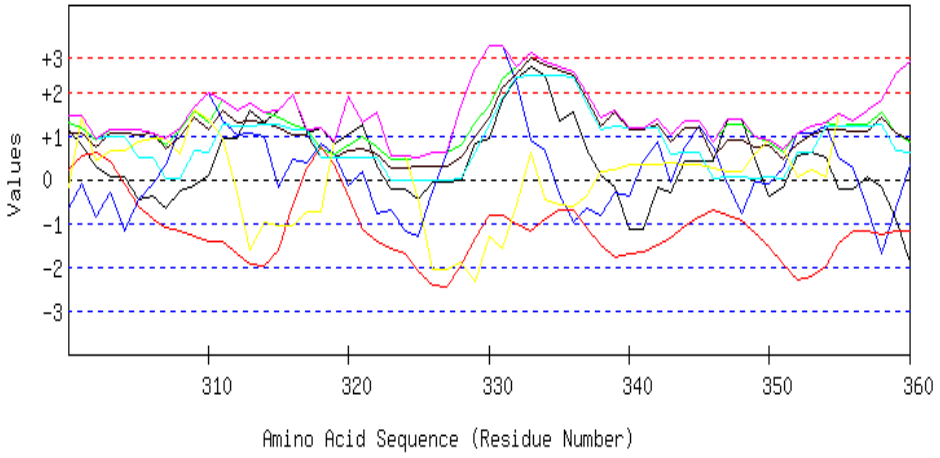


GRAPHICAL RESULT :: SEQ 241 to 300



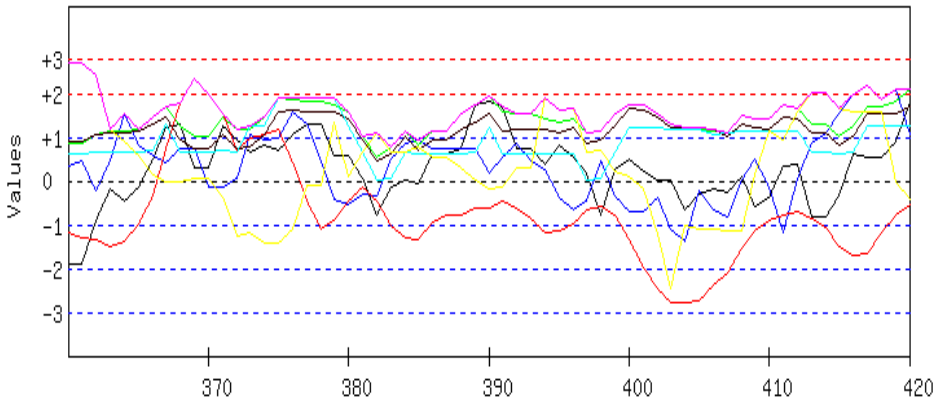
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 301 to 360



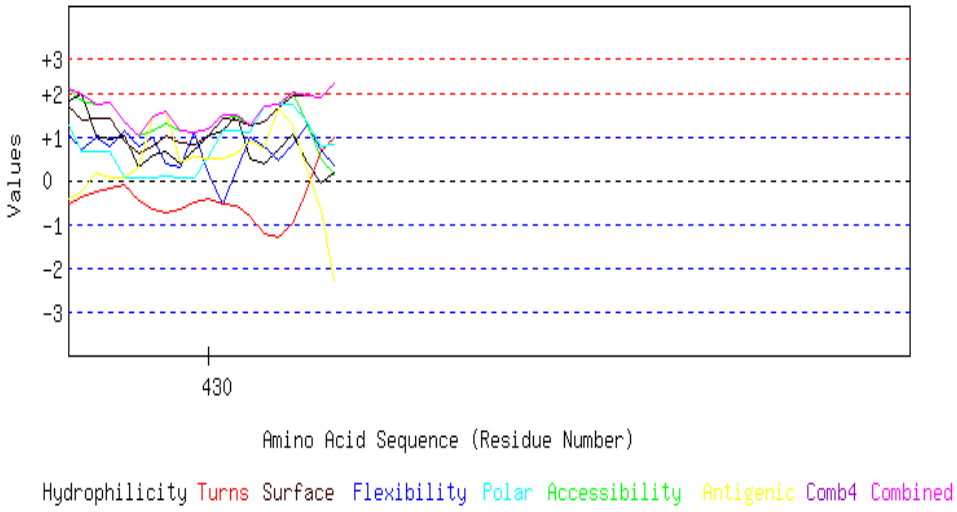
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 361 to 420



Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 421 to 480



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

**MVNKPFERRSLLRGAGALTAASLAPWAAGCAADDDDALTFFFAANPDELRPRMRVVNEFQ
RRYPDIKVRALLSGPGVMQQLATFCAGGKCPDVLMAWELTYAELADRGVLLDLNTLLARD
QAFAAELKSDSIGALYETFTFNGGQYAFPEQWSGNFLFYNKQLFDDAGVPPPPGSWERPW
SFAEFLDAAQALTKQGRSGRDRQWGFVNAWVSFYAAGLFAMNNGVPWSVPRMNPTHLNFD
HDGFLEAVQFYADLTNKHKVAPSAAEQQSMSTADLFSVGKAGIALAGHWRYQTFDRADGL
DFDVAPLPIGPRGRAACSDIGVTGLAIAATSRRKDQAWEFVKFATGPVGQALIGESRLFV
PVLRSAINSHGFANAHRRVGNLAVLSEGPAYSEGLPVTPAWEKIAALMDRYFGPVLRGSR
PATSLTGLSQAVDEVLRNP**

Length=439

A.A.	Parameter	Combined

		Hydro	Flexi	Access	Turns	Surface	Polar	AntiPro	MAX	MIN	AVG
1	M	0.225	0.141	-0.111	-0.866	2.142	0.804	-2.363	2.142	-2.363	-0.004
2	V	0.357	0.830	0.589	-0.300	2.096	0.763	-1.133	2.096	-1.133	0.457
3	N	-0.224	1.740	0.982	0.185	1.731	0.707	0.128	1.740	-0.224	0.750
4	K	0.269	1.944	1.767	0.308	1.777	1.247	1.112	1.944	0.269	1.203
5	P	0.800	1.968	2.206	-0.098	2.205	1.854	1.166	2.206	-0.098	1.443
6	F	1.299	1.405	2.758	-0.761	2.688	2.477	0.577	2.758	-0.761	1.492
7	E	1.268	1.375	2.608	-1.418	2.533	2.457	0.850	2.608	-1.418	1.382
8	R	0.326	1.613	2.075	-1.588	1.905	1.867	1.220	2.075	-1.588	1.060
9	R	-0.389	1.427	1.748	-1.521	1.640	1.854	1.435	1.854	-1.521	0.885
10	S	0.459	0.614	2.244	-1.487	2.160	2.474	1.183	2.474	-1.487	1.092
11	L	0.326	0.385	1.907	-1.588	1.750	1.875	1.209	1.907	-1.588	0.838
12	L	0.193	0.590	1.477	-1.949	1.276	1.250	0.200	1.477	-1.949	0.434
13	R	0.288	0.590	1.038	-2.113	0.756	0.625	0.201	1.038	-2.113	0.198
14	G	0.010	0.267	0.889	-2.223	0.601	0.605	-0.969	0.889	-2.223	-0.117
15	A	0.010	-0.360	0.889	-2.091	0.601	0.605	-0.969	0.889	-2.091	-0.188
16	G	0.920	-0.360	1.169	-1.943	0.747	0.620	-1.363	1.169	-1.943	-0.030
17	A	0.787	-0.132	0.739	-1.838	0.273	-0.005	-2.372	0.787	-2.372	-0.364
18	L	0.560	-0.336	0.748	-1.722	0.319	-0.005	-3.383	0.748	-3.383	-0.545
19	T	0.838	-0.132	0.898	-1.398	0.474	0.015	-2.213	0.898	-2.213	-0.217
20	A	-0.104	-0.264	0.823	-1.175	0.528	0.021	-1.778	0.823	-1.778	-0.278
21	A	-0.104	-0.767	0.823	-0.962	0.528	0.021	-1.778	0.823	-1.778	-0.320
22	S	0.610	-0.767	1.150	-0.799	0.793	0.034	-1.993	1.150	-1.993	-0.139
23	L	-0.351	-1.622	0.973	-0.914	0.656	0.040	-2.012	0.973	-2.012	-0.461
24	A	-0.351	-0.791	0.973	-1.062	0.656	0.040	-2.012	0.973	-2.012	-0.364
25	P	-0.351	-0.755	0.973	-1.266	0.656	0.040	-2.012	0.973	-2.012	-0.388
26	W	-0.401	-1.113	0.814	-1.589	0.455	0.019	-2.171	0.814	-2.171	-0.569
27	A	0.269	-0.611	0.683	-1.596	0.355	0.032	-1.984	0.683	-1.984	-0.407
28	A	0.269	-0.072	0.683	-1.485	0.355	0.032	-1.984	0.683	-1.984	-0.314
29	G	0.269	0.467	0.440	-1.296	0.082	0.013	-3.214	0.467	-3.214	-0.463
30	C	1.533	0.379	0.692	-0.868	0.382	0.477	-3.245	1.533	-3.245	-0.093
31	A	2.033	0.882	0.963	-0.371	0.701	0.965	-2.244	2.033	-2.244	0.419
32	A	2.532	0.882	1.234	0.423	1.020	1.454	-1.243	2.532	-1.243	0.901
33	D	2.804	0.678	1.515	1.486	1.385	1.943	-1.252	2.804	-1.252	1.223
34	D	2.848	0.630	1.730	2.135	1.476	1.926	-2.884	2.848	-2.884	1.123
35	D	2.134	-0.084	1.646	2.109	1.485	1.931	-1.439	2.134	-1.439	1.112
36	D	2.330	-0.797	1.842	1.360	1.640	1.951	-0.388	2.330	-0.797	1.134
37	A	1.116	-1.510	1.505	0.262	1.276	1.466	-0.128	1.505	-1.510	0.570
38	L	-0.098	-1.510	1.169	-0.429	0.911	0.981	0.132	1.169	-1.510	0.165
39	T	-1.312	-1.306	0.832	-0.540	0.547	0.497	0.392	0.832	-1.312	-0.127
40	F	-1.811	-1.188	0.561	-0.469	0.228	0.008	-0.609	0.561	-1.811	-0.469
41	F	-1.811	-0.655	0.561	-0.455	0.228	0.008	-0.609	0.561	-1.811	-0.391
42	F	-0.787	0.059	0.945	-0.312	0.528	0.043	-1.157	0.945	-1.157	-0.097
43	A	-0.983	0.808	0.991	-0.113	0.647	0.042	-0.978	0.991	-0.983	0.059
44	A	0.231	0.604	1.328	0.697	1.011	0.527	-1.238	1.328	-1.238	0.451
45	N	1.306	1.417	1.720	1.348	1.422	1.122	-1.516	1.720	-1.516	0.974
46	P	1.306	1.167	1.702	1.493	1.476	1.123	-1.332	1.702	-1.332	0.991
47	D	1.438	1.621	2.132	0.716	1.950	1.748	-0.323	2.132	-0.323	1.326
48	E	1.438	0.968	2.374	-0.242	2.224	1.767	0.908	2.374	-0.242	1.348
49	L	1.261	1.207	2.505	-1.319	2.388	2.351	1.020	2.505	-1.319	1.345
50	R	0.863	1.315	2.253	-1.700	2.160	2.349	0.745	2.349	-1.700	1.141
51	P	0.496	0.405	2.412	-2.025	2.315	2.485	0.753	2.485	-2.025	0.977
52	R	-0.231	0.656	1.963	-2.233	1.941	1.887	1.368	1.963	-2.233	0.764
53	M	0.117	0.417	1.926	-2.543	1.923	1.883	1.521	1.926	-2.543	0.749
54	R	0.294	0.357	1.795	-2.159	1.759	1.299	1.409	1.795	-2.159	0.679
55	V	0.655	0.035	1.879	-1.582	1.850	1.880	1.163	1.880	-1.582	0.840
56	V	-0.193	0.944	1.384	-0.510	1.330	1.259	1.415	1.415	-0.510	0.804

57 N	0.452	1.854	1.720	0.152	1.658	1.284	1.634	1.854	0.152	1.251
58 E	0.452	0.838	1.720	0.201	1.658	1.284	1.634	1.720	0.201	1.113
59 F	0.952	0.622	2.272	-0.378	2.142	1.908	1.044	2.272	-0.378	1.223
60 Q	1.065	1.335	2.646	-0.980	2.388	1.925	0.787	2.646	-0.980	1.309
61 R	0.756	0.519	2.589	-1.536	2.351	1.904	1.120	2.589	-1.536	1.100
62 R	0.895	0.538	2.533	-1.229	2.306	1.793	1.138	2.533	-1.229	1.139
63 Y	0.971	-0.372	2.459	-0.792	2.333	1.791	1.208	2.459	-0.792	1.085
64 P	0.952	0.848	2.580	-0.369	2.597	2.343	1.110	2.597	-0.369	1.437
65 D	0.452	0.489	2.029	-0.487	2.114	1.720	1.699	2.114	-0.487	1.145
66 I	0.452	-0.254	2.029	-1.141	2.114	1.720	1.699	2.114	-1.141	0.946
67 K	0.705	-0.134	1.776	-1.928	1.877	1.700	0.357	1.877	-1.928	0.622
68 V	-0.009	-0.110	1.449	-2.405	1.613	1.687	0.572	1.687	-2.405	0.400
69 R	-1.223	0.614	1.094	-2.629	1.303	1.203	1.016	1.303	-2.629	0.197
70 A	-0.307	0.159	1.384	-2.276	1.476	1.222	0.854	1.476	-2.276	0.359
71 L	-0.307	0.786	0.926	-1.877	0.793	0.627	0.790	0.926	-1.877	0.248
72 L	0.060	0.894	1.290	-1.181	1.075	0.644	0.421	1.290	-1.181	0.458
73 S	0.155	0.984	0.851	-0.626	0.556	0.020	0.422	0.984	-0.626	0.337
74 G	-0.212	0.620	0.730	-0.375	0.547	0.021	2.021	2.021	-0.375	0.479
75 P	0.104	0.483	0.804	-0.693	0.583	0.033	1.531	1.531	-0.693	0.407
76 G	1.065	-0.080	1.216	-1.118	0.948	0.070	1.259	1.259	-1.118	0.480
77 V	1.034	-0.707	1.393	-1.613	1.166	0.092	1.262	1.393	-1.613	0.375
78 M	0.092	-0.120	1.318	-1.667	1.221	0.098	1.697	1.697	-1.667	0.377
79 Q	0.092	-0.180	1.075	-1.609	0.948	0.079	0.467	1.075	-1.609	0.125
80 Q	0.060	-0.635	1.281	-1.410	1.148	0.099	0.508	1.281	-1.410	0.150
81 L	-0.288	-1.125	1.337	-1.288	1.112	0.101	0.170	1.337	-1.288	0.003
82 A	0.067	-0.294	1.132	-0.944	0.975	0.102	0.847	1.132	-0.944	0.269
83 T	-0.180	0.333	0.804	-0.634	0.601	0.060	-0.326	0.804	-0.634	0.094
84 F	-0.199	0.674	0.468	-0.367	0.182	0.017	-0.489	0.674	-0.489	0.041
85 C	0.743	0.884	0.543	-0.437	0.127	0.012	-0.924	0.884	-0.924	0.135
86 A	0.971	1.207	0.991	-0.857	0.765	0.606	0.151	1.207	-0.857	0.548
87 G	0.730	1.746	0.580	-1.228	0.519	0.604	0.733	1.746	-1.228	0.526
88 G	1.445	1.022	0.889	-1.222	0.838	0.619	0.702	1.445	-1.222	0.613
89 K	1.989	0.191	1.375	-0.670	1.248	1.090	0.071	1.989	-0.670	0.756
90 C	1.622	-0.755	1.253	0.030	1.239	1.092	1.669	1.669	-0.755	0.879
91 P	0.680	-0.791	1.178	0.455	1.294	1.097	2.104	2.104	-0.791	0.860
92 D	0.054	-1.652	1.178	0.093	1.385	1.114	2.049	2.049	-1.652	0.603
93 V	-0.174	-1.616	0.730	-0.731	0.747	0.520	0.973	0.973	-1.616	0.064
94 L	-0.894	-1.725	0.963	-1.803	0.856	0.527	0.373	0.963	-1.803	-0.243
95 M	-0.534	-1.029	1.047	-2.415	0.948	1.108	0.127	1.108	-2.415	-0.107
96 A	-1.748	-1.322	0.692	-2.700	0.638	0.624	0.571	0.692	-2.700	-0.463
97 W	-1.185	-1.322	1.010	-2.465	0.802	0.643	0.023	1.010	-2.465	-0.356
98 E	-0.724	-0.244	1.346	-2.153	1.030	0.657	-0.080	1.346	-2.153	-0.024
99 L	-0.325	-1.023	1.356	-1.754	0.984	0.639	-1.035	1.356	-1.754	-0.165
100T	0.035	-0.819	1.683	-1.523	1.349	1.239	-0.051	1.683	-1.523	0.273
101Y	0.085	-0.771	1.580	-1.528	1.339	1.219	0.362	1.580	-1.528	0.327
102A	-0.275	0.449	1.253	-1.787	0.975	0.620	-0.622	1.253	-1.787	0.088
103E	0.939	1.076	1.608	-1.768	1.285	1.103	-1.066	1.608	-1.768	0.454
104L	0.876	0.405	1.842	-1.662	1.604	1.708	-1.107	1.842	-1.662	0.524
105A	1.356	0.405	1.580	-1.221	1.321	1.688	-1.439	1.688	-1.439	0.527
106D	0.990	0.201	1.459	-1.015	1.312	1.690	0.160	1.690	-1.015	0.685
107R	-0.085	0.201	1.047	-1.158	0.957	1.096	0.621	1.096	-1.158	0.383
108G	-0.085	-0.817	1.047	-1.637	0.957	1.096	0.621	1.096	-1.637	0.169
109V	0.414	-0.835	1.318	-1.722	1.276	1.585	1.622	1.622	-1.722	0.523
110L	-0.800	-0.248	0.963	-1.740	0.966	1.101	2.066	2.066	-1.740	0.330
111L	-0.623	-0.248	0.832	-0.802	0.802	0.517	1.954	1.954	-0.802	0.348
112D	-0.654	-0.248	1.038	0.068	1.002	0.537	1.994	1.994	-0.654	0.534
113L	-1.002	-0.787	1.075	0.834	1.020	0.541	1.840	1.840	-1.002	0.503
114N	-1.002	0.231	1.075	0.858	1.020	0.541	1.840	1.840	-1.002	0.652
115T	-0.288	0.161	1.160	0.285	1.011	0.536	0.395	1.160	-0.288	0.466

116L	-0.654	0.161	1.318	-0.921	1.166	0.671	0.403	1.318	-0.921	0.306
117L	0.560	0.365	1.674	-1.422	1.476	1.155	-0.040	1.674	-1.422	0.538
118A	0.496	0.395	1.702	-1.587	1.540	1.157	0.236	1.702	-1.587	0.563
119R	0.300	0.395	1.505	-1.051	1.385	1.137	-0.815	1.505	-1.051	0.408
120D	0.300	-0.418	1.524	-0.483	1.330	1.135	-0.999	1.524	-0.999	0.341
121Q	1.015	-0.382	1.608	-0.356	1.321	1.130	-2.444	1.608	-2.444	0.270
122A	1.015	-1.077	1.608	-0.664	1.321	1.130	-2.444	1.608	-2.444	0.127
123F	1.242	-0.246	1.505	-1.108	1.212	1.105	-2.469	1.505	-2.469	0.177
124A	0.029	0.784	1.150	-1.664	0.902	0.621	-2.025	1.150	-2.025	-0.029
125A	0.010	1.323	1.272	-2.058	1.166	1.174	-2.124	1.323	-2.124	0.109
126E	0.288	2.178	1.421	-2.028	1.321	1.194	-0.954	2.178	-2.028	0.489
127L	1.502	1.279	1.758	-1.585	1.686	1.678	-1.214	1.758	-1.585	0.729
128K	1.780	2.110	1.907	-0.511	1.841	1.699	-0.044	2.110	-0.511	1.255
129S	1.141	1.279	1.767	0.441	1.823	1.700	1.288	1.823	0.441	1.348
130D	1.009	0.219	1.431	0.909	1.412	1.101	1.314	1.431	0.219	1.056
131S	1.723	-0.727	1.515	0.419	1.403	1.095	-0.131	1.723	-0.727	0.757
132I	0.781	-1.007	0.982	-0.544	0.774	0.506	0.239	0.982	-1.007	0.247
133G	0.250	-0.192	1.085	-1.493	0.856	0.505	0.412	1.085	-1.493	0.203
134A	0.111	-0.993	1.141	-1.970	0.902	0.616	0.394	1.141	-1.970	0.029
135L	0.029	-0.502	1.188	-1.976	0.902	0.616	0.275	1.188	-1.976	0.076
136Y	-0.047	-0.472	1.262	-1.612	0.875	0.618	0.205	1.262	-1.612	0.118
137E	-0.079	0.544	1.468	-1.158	1.075	0.638	0.245	1.468	-1.158	0.390
138T	-0.793	0.596	1.403	-0.664	1.030	0.642	1.506	1.506	-0.793	0.531
139F	0.231	0.732	1.786	0.133	1.330	0.678	0.958	1.786	0.133	0.835
140T	0.711	1.397	1.524	0.673	1.048	0.658	0.627	1.524	0.627	0.948
141F	0.579	0.499	1.188	1.150	0.638	0.059	0.653	1.188	0.059	0.681
142N	0.629	0.674	1.318	1.068	0.856	0.081	0.776	1.318	0.081	0.772
143G	1.091	-0.110	1.636	0.577	1.139	0.096	0.857	1.636	-0.110	0.755
144G	0.895	-0.378	1.440	-0.199	0.984	0.076	-0.194	1.440	-0.378	0.375
145Q	0.895	-0.430	1.440	-0.664	0.984	0.076	-0.194	1.440	-0.664	0.301
146Y	0.585	-0.430	1.384	-0.927	0.948	0.055	0.139	1.384	-0.927	0.250
147A	0.718	-0.526	1.720	-0.820	1.358	0.654	0.112	1.720	-0.820	0.459
148F	0.737	0.329	2.057	-0.634	1.777	0.697	0.275	2.057	-0.634	0.748
149P	-0.275	1.131	1.748	-0.698	1.422	0.680	0.134	1.748	-0.698	0.592
150E	0.256	1.381	1.646	-0.651	1.339	0.680	-0.038	1.646	-0.651	0.659
151Q	0.484	0.632	1.636	-0.690	1.294	0.680	0.972	1.636	-0.690	0.715
152W	1.508	-0.064	2.001	-0.150	1.649	0.717	0.608	2.001	-0.150	0.896
153S	0.794	0.265	1.692	0.418	1.330	0.702	0.639	1.692	0.265	0.834
154G	-0.281	-0.997	1.281	1.064	0.975	0.108	1.101	1.281	-0.997	0.464
155N	-1.242	-1.015	0.889	1.101	0.556	0.070	1.188	1.188	-1.242	0.221
156F	-0.730	-0.793	1.122	0.711	0.774	0.064	1.498	1.498	-0.793	0.378
157L	-0.698	-0.128	1.272	0.308	0.929	0.084	1.225	1.272	-0.698	0.427
158F	-0.698	-0.128	1.730	0.240	1.613	0.679	1.290	1.730	-0.698	0.675
159Y	-0.762	-0.128	1.758	0.458	1.677	0.681	1.566	1.758	-0.762	0.750
160N	-0.762	0.818	1.739	0.475	1.731	0.682	1.750	1.750	-0.762	0.919
161K	-0.762	0.748	1.758	0.223	1.677	0.681	1.566	1.758	-0.762	0.842
162Q	0.452	-0.084	2.094	-0.233	2.041	1.165	1.306	2.094	-0.233	0.963
163L	1.205	0.053	2.113	-0.031	2.123	1.635	0.965	2.123	-0.031	1.152
164F	0.895	0.161	1.814	0.295	1.813	1.594	0.068	1.814	0.068	0.949
165D	0.895	0.694	1.356	0.860	1.130	1.000	0.003	1.356	0.003	0.848
166D	0.281	0.513	0.907	0.618	0.747	0.959	0.429	0.959	0.281	0.636
167A	0.996	0.333	1.234	0.053	1.011	0.972	0.214	1.234	0.053	0.688
168G	1.710	0.692	1.543	-0.513	1.330	0.987	0.183	1.710	-0.513	0.847
169V	1.211	0.692	1.515	-0.524	1.285	0.517	0.412	1.515	-0.524	0.730
170P	0.711	1.644	1.487	-0.090	1.239	0.047	0.640	1.644	-0.090	0.811
171P	0.939	0.782	1.477	0.410	1.194	0.047	1.651	1.651	0.047	0.929
172P	0.990	0.998	1.636	0.686	1.394	0.067	1.810	1.810	0.067	1.083
173P	0.591	1.453	1.776	0.537	1.422	0.091	1.244	1.776	0.091	1.016
174G	0.952	1.453	1.860	0.154	1.513	0.672	0.998	1.860	0.154	1.086

175S	1.084	0.323	2.047	-0.479	1.713	1.277	0.777	2.047	-0.479	0.963
176W	1.084	0.323	2.047	-0.990	1.713	1.277	0.777	2.047	-0.990	0.890
177E	0.319	0.652	1.823	-1.503	1.458	1.284	0.579	1.823	-1.503	0.659
178R	0.370	0.077	1.982	-1.310	1.658	1.304	0.739	1.982	-1.310	0.688
179P	-0.623	-0.162	1.767	-0.987	1.458	1.288	0.830	1.767	-0.987	0.510
180W	0.142	-0.695	1.748	-0.428	1.440	1.263	-0.202	1.748	-0.695	0.467
181S	0.142	-0.396	1.748	-0.295	1.440	1.263	-0.202	1.748	-0.396	0.528
182F	-0.705	-0.713	1.253	-0.415	0.920	0.642	0.050	1.253	-0.713	0.147
183A	-1.419	-0.538	0.926	-0.970	0.656	0.629	0.265	0.926	-1.419	-0.065
184E	-0.155	-0.538	1.178	-1.004	0.957	1.092	0.234	1.178	-1.004	0.252
185F	-0.433	-0.623	1.029	-1.010	0.802	1.072	-0.936	1.072	-1.010	-0.014
186L	0.281	-0.448	1.094	-0.710	0.847	1.068	-2.198	1.094	-2.198	-0.009
187D	0.528	-0.448	1.421	-0.576	1.221	1.110	-1.024	1.421	-1.024	0.319
188A	0.168	-0.496	1.094	-0.712	0.856	0.511	-2.008	1.094	-2.008	-0.084
189A	0.168	0.335	1.075	-1.134	0.911	0.512	-1.824	1.075	-1.824	0.006
190Q	1.078	0.826	1.356	-1.304	1.057	0.527	-2.218	1.356	-2.218	0.189
191A	0.806	0.962	1.533	-1.590	1.376	0.632	-2.144	1.533	-2.144	0.225
192L	1.053	1.776	1.860	-1.500	1.750	0.675	-0.971	1.860	-1.500	0.663
193T	1.280	2.836	1.851	-1.425	1.704	0.675	0.039	2.836	-1.425	0.994
194K	1.167	2.972	1.954	-1.421	1.804	1.257	-0.125	2.972	-1.421	1.087
195Q	1.445	2.954	2.103	-1.252	1.959	1.277	1.045	2.954	-1.252	1.362
196G	2.387	3.002	2.178	-1.103	1.905	1.272	0.610	3.002	-1.103	1.464
197R	2.324	3.188	2.412	-1.003	2.224	1.876	0.569	3.188	-1.003	1.656
198S	2.595	2.866	2.234	-0.669	1.905	1.771	0.495	2.866	-0.669	1.599
199G	2.482	1.507	2.337	-0.639	2.005	2.353	0.331	2.482	-0.639	1.482
200R	2.501	1.507	2.674	-0.540	2.424	2.395	0.494	2.674	-0.540	1.636
201D	1.603	0.519	2.262	-0.612	1.968	1.796	0.517	2.262	-0.612	1.151
202R	1.552	-0.116	2.103	-0.867	1.768	1.776	0.357	2.103	-0.867	0.939
203Q	0.610	-0.320	2.047	-1.113	1.768	1.780	0.608	2.047	-1.113	0.769
204W	0.111	-0.811	1.496	-1.254	1.285	1.157	1.198	1.496	-1.254	0.455
205G	-0.079	-0.811	1.524	-0.993	1.276	0.709	1.094	1.524	-0.993	0.388
206F	-0.212	-1.534	1.094	-0.438	0.802	0.084	0.084	1.094	-1.534	-0.017
207V	-1.223	-0.504	0.786	0.083	0.446	0.067	-0.057	0.786	-1.223	-0.058
208N	-0.825	-0.583	0.646	0.128	0.419	0.043	0.510	0.646	-0.825	0.048
209A	-0.774	-1.598	0.804	-0.098	0.619	0.063	0.669	0.804	-1.598	-0.045
210W	-0.774	-1.598	0.804	-0.548	0.619	0.063	0.669	0.804	-1.598	-0.109
211V	-0.661	-1.095	1.178	-0.466	0.866	0.081	0.413	1.178	-1.095	0.045
212S	-0.970	-0.372	0.879	-0.471	0.556	0.040	-0.484	0.879	-0.970	-0.118
213F	-0.970	-1.432	0.879	-0.425	0.556	0.040	-0.484	0.879	-1.432	-0.262
214Y	0.022	-1.432	0.851	-0.828	0.492	0.015	-0.506	0.851	-1.432	-0.198
215A	-0.325	-1.025	0.889	-1.364	0.510	0.019	-0.660	0.889	-1.364	-0.280
216A	-1.318	-1.140	0.674	-1.737	0.310	0.003	-0.569	0.674	-1.737	-0.540
217G	-0.604	-0.530	0.739	-1.811	0.355	-0.001	-1.830	0.739	-1.830	-0.526
218L	-0.749	-0.548	0.477	-1.799	0.164	-0.003	-2.217	0.477	-2.217	-0.668
219F	-0.439	0.283	0.776	-1.390	0.474	0.037	-1.320	0.776	-1.390	-0.226
220A	-0.129	0.361	1.075	-0.556	0.784	0.078	-0.423	1.075	-0.556	0.170
221M	-0.129	0.720	1.075	0.549	0.784	0.078	-0.423	1.075	-0.423	0.379
222N	0.218	0.331	1.038	1.550	0.765	0.074	-0.269	1.550	-0.269	0.530
223N	0.933	0.578	1.346	1.787	1.084	0.089	-0.301	1.787	-0.301	0.788
224G	0.168	-0.128	1.365	1.058	1.103	0.114	0.732	1.365	-0.128	0.630
225V	0.844	-0.396	1.524	0.328	1.212	0.117	0.947	1.524	-0.396	0.654
226P	0.168	0.513	1.103	-0.368	0.893	0.078	1.649	1.649	-0.368	0.577
227W	-0.142	0.041	1.047	-0.392	0.856	0.056	1.982	1.982	-0.392	0.493
228S	-0.237	1.153	1.487	-0.367	1.376	0.681	1.980	1.980	-0.367	0.867
229V	-0.269	0.656	1.599	-0.556	1.431	0.697	1.336	1.599	-0.556	0.699
230P	0.041	1.243	1.655	-0.724	1.467	0.718	1.003	1.655	-0.724	0.772
231R	0.806	0.974	1.879	-0.540	1.722	0.712	1.201	1.879	-0.540	0.965
232M	0.724	-0.044	1.926	-0.010	1.722	0.712	1.082	1.926	-0.044	0.873
233N	1.091	0.680	2.206	1.044	1.905	1.330	0.761	2.206	0.680	1.288

234P	0.376	-0.104	1.879	1.563	1.640	1.316	0.976	1.879	-0.104	1.092
235T	0.553	0.077	1.748	2.033	1.476	0.732	0.864	2.033	0.077	1.069
236H	0.237	-0.324	1.692	2.082	1.385	0.719	1.170	2.082	-0.324	0.995
237L	0.427	0.125	1.664	2.122	1.394	1.168	1.274	2.122	0.125	1.168
238N	0.427	0.956	1.580	2.391	1.294	1.769	1.321	2.391	0.427	1.391
239F	0.730	0.173	1.655	2.881	1.458	2.238	1.272	2.881	0.173	1.487
240D	0.958	0.143	1.487	2.913	1.239	1.618	1.005	2.913	0.143	1.337
241H	0.958	0.179	1.505	2.891	1.185	1.617	0.821	2.891	0.179	1.308
242D	-0.066	0.089	1.122	1.890	0.884	1.581	1.369	1.890	-0.066	0.981
243G	1.009	-0.546	1.515	0.722	1.294	2.177	1.091	2.177	-0.546	1.037
244F	0.509	-0.683	1.244	-0.574	0.975	1.688	0.090	1.688	-0.683	0.464
245L	0.142	-0.683	0.963	-1.520	0.793	1.070	0.412	1.070	-1.520	0.168
246E	-0.111	-0.885	1.019	-1.941	0.847	0.623	0.584	1.019	-1.941	0.020
247A	-1.053	-1.460	0.963	-1.816	0.847	0.627	0.835	0.963	-1.816	-0.151
248V	-0.591	-0.921	1.281	-1.495	1.130	0.642	0.916	1.281	-1.495	0.137
249Q	0.123	-1.029	1.365	-1.111	1.121	0.637	-0.529	1.365	-1.111	0.082
250F	0.263	-1.029	1.309	-0.680	1.075	0.526	-0.512	1.309	-1.029	0.136
251Y	-0.452	-0.246	1.225	-0.552	1.084	0.532	0.933	1.225	-0.552	0.361
252A	0.111	0.992	1.543	-0.329	1.248	0.550	0.385	1.543	-0.329	0.643
253D	0.174	1.082	1.515	0.082	1.185	0.548	0.109	1.515	0.082	0.671
254L	1.116	1.375	2.029	0.432	1.868	1.139	-0.077	2.029	-0.077	1.126
255T	1.369	1.483	1.935	1.110	1.804	1.739	-0.142	1.935	-0.142	1.328
256N	1.597	0.992	2.384	1.407	2.442	2.334	0.933	2.442	0.933	1.727
257K	0.730	0.742	1.991	1.244	2.114	1.846	1.531	2.114	0.730	1.457
258H	1.445	0.766	2.075	0.570	2.105	1.841	0.086	2.105	0.086	1.270
259K	1.249	0.676	2.122	-0.173	2.224	1.840	0.265	2.224	-0.173	1.172
260V	1.217	-0.156	1.973	-0.776	2.069	1.820	0.538	2.069	-0.776	0.955
261A	0.990	0.515	1.524	-0.585	1.431	1.225	-0.538	1.524	-0.585	0.652
262P	0.990	1.006	1.365	-0.426	1.257	0.605	-1.815	1.365	-1.815	0.426
263S	1.122	1.139	1.244	-0.352	0.984	0.610	-1.906	1.244	-1.906	0.406
264A	1.736	1.139	1.692	-0.698	1.367	0.651	-2.332	1.736	-2.332	0.508
265A	1.982	1.024	2.019	-1.112	1.741	0.693	-1.158	2.019	-1.158	0.741
266E	2.260	1.880	1.926	-1.037	1.622	0.694	-1.218	2.260	-1.218	0.875
267Q	1.584	1.796	1.767	-0.811	1.513	0.691	-1.434	1.796	-1.434	0.729
268Q	1.862	1.305	1.917	-0.198	1.668	0.712	-0.264	1.917	-0.264	1.000
269S	2.058	1.353	2.113	0.047	1.823	0.731	0.787	2.113	0.047	1.273
270M	1.698	0.293	1.786	0.119	1.458	0.132	-0.197	1.786	-0.197	0.756
271S	1.951	0.233	1.730	0.173	1.403	0.578	-0.369	1.951	-0.369	0.814
272T	0.990	0.233	1.318	0.135	1.039	0.541	-0.097	1.318	-0.097	0.594
273A	-0.003	-0.354	1.103	0.043	0.838	0.526	-0.006	1.103	-0.354	0.307
274D	0.673	0.273	1.262	0.149	0.948	0.528	0.209	1.262	0.149	0.578
275L	0.029	0.566	0.991	0.035	0.784	0.510	0.638	0.991	0.029	0.507
276F	0.060	0.770	0.786	-0.044	0.583	0.490	0.598	0.786	-0.044	0.463
277S	0.288	1.571	1.234	-0.282	1.221	1.085	1.673	1.673	-0.282	0.970
278V	-0.212	0.391	0.963	-0.899	0.902	0.596	0.672	0.963	-0.899	0.345
279G	0.730	0.487	1.038	-1.443	0.847	0.590	0.237	1.038	-1.443	0.355
280K	0.806	-0.344	0.963	-1.969	0.875	0.588	0.308	0.963	-1.969	0.175
281A	0.528	-1.176	0.814	-2.319	0.720	0.568	-0.862	0.814	-2.319	-0.247
282G	0.180	-0.548	0.851	-2.453	0.738	0.572	-1.016	0.851	-2.453	-0.240
283I	-0.047	-1.085	0.860	-2.550	0.784	0.572	-2.027	0.860	-2.550	-0.499
284A	-0.047	-1.264	0.403	-2.523	0.100	-0.023	-2.091	0.403	-2.523	-0.778
285L	-0.047	-0.450	0.561	-1.977	0.273	0.597	-0.814	0.597	-1.977	-0.265
286A	-1.040	-0.653	0.589	-1.356	0.337	0.622	-0.792	0.622	-1.356	-0.327
287G	-0.269	-0.162	1.160	-0.607	0.829	1.245	-1.114	1.245	-1.114	0.155
288H	-0.521	-0.298	1.412	-0.367	1.066	1.264	0.228	1.412	-0.521	0.398
289W	0.440	-0.562	1.823	-0.534	1.431	1.301	-0.044	1.823	-0.562	0.551
290R	0.636	0.479	2.019	-0.882	1.586	1.321	1.007	2.019	-0.882	0.881
291Y	-0.307	0.479	1.963	-0.854	1.586	1.326	1.258	1.963	-0.854	0.779
292Q	0.193	0.886	2.075	-0.484	1.731	1.195	0.982	2.075	-0.484	0.940

293T	1.091	0.934	2.487	0.016	2.187	1.794	0.958	2.487	0.016	1.352
294F	0.958	1.070	2.057	0.230	1.713	1.169	-0.051	2.057	-0.051	1.021
295D	1.710	1.040	2.075	0.163	1.795	1.639	-0.392	2.075	-0.392	1.147
296R	1.691	1.040	1.739	-0.116	1.376	1.597	-0.555	1.739	-0.555	0.967
297A	0.781	0.053	1.459	-0.358	1.230	1.582	-0.161	1.582	-0.358	0.655
298D	1.995	0.592	1.795	-0.270	1.595	2.067	-0.421	2.067	-0.421	1.050
299G	0.781	-0.044	1.459	-0.241	1.230	1.582	-0.161	1.582	-0.241	0.658
300L	1.148	-0.671	1.300	0.218	1.075	1.446	-0.169	1.446	-0.671	0.621
301D	0.781	-0.108	1.178	0.557	1.066	1.448	1.430	1.448	-0.108	0.907
302F	0.281	-0.851	0.907	0.630	0.747	0.959	0.429	0.959	-0.851	0.443
303D	0.054	-0.318	1.160	0.426	1.066	0.978	0.649	1.160	-0.318	0.573
304V	0.054	-1.182	1.160	-0.103	1.066	0.978	0.649	1.160	-1.182	0.374
305A	-0.446	-0.458	1.132	-0.604	1.020	0.508	0.877	1.132	-0.604	0.290
306P	-0.370	-0.100	1.057	-0.895	1.048	0.506	0.948	1.057	-0.895	0.313
307L	-0.642	0.355	0.776	-1.109	0.683	0.017	0.957	0.957	-1.109	0.148
308P	-0.275	1.187	1.141	-1.197	0.966	0.034	0.588	1.187	-1.197	0.349
309I	-0.142	1.641	1.571	-1.311	1.440	0.659	1.598	1.641	-1.311	0.779
310G	0.085	1.966	1.318	-1.406	1.121	0.640	1.378	1.966	-1.406	0.729
311P	0.933	1.339	1.832	-1.437	1.586	1.259	0.942	1.832	-1.437	0.922
312R	0.933	1.016	1.589	-1.692	1.312	1.240	-0.288	1.589	-1.692	0.587
313G	1.571	1.058	1.730	-1.949	1.330	1.238	-1.620	1.730	-1.949	0.480
314R	1.299	0.970	1.524	-1.967	1.285	1.256	-0.998	1.524	-1.967	0.481
315A	1.578	-0.168	1.431	-1.610	1.166	1.257	-1.058	1.578	-1.610	0.371
316A	1.944	0.459	1.272	-0.588	1.011	1.121	-1.066	1.944	-1.066	0.593
317C	1.078	0.363	1.141	0.253	1.039	1.123	-0.744	1.141	-0.744	0.607
318S	1.173	0.818	0.702	0.743	0.519	0.498	-0.743	1.173	-0.743	0.530
319D	0.806	0.590	0.580	0.331	0.510	0.500	0.856	0.856	0.331	0.596
320I	1.002	-0.154	0.776	-0.395	0.665	0.520	1.906	1.906	-0.395	0.617
321G	1.274	0.171	0.982	-1.144	0.711	0.502	1.284	1.284	-1.144	0.540
322V	0.281	-0.781	0.748	-1.427	0.565	0.487	1.560	1.560	-1.427	0.205
323T	-0.218	-0.685	0.477	-1.572	0.246	-0.001	0.558	0.558	-1.572	-0.171
324G	-0.218	-1.176	0.477	-1.706	0.246	-0.001	0.558	0.558	-1.706	-0.260
325L	-0.446	-1.312	0.487	-2.087	0.291	-0.001	-0.452	0.487	-2.087	-0.503
326A	-0.079	-0.252	0.608	-2.422	0.300	-0.003	-2.051	0.608	-2.422	-0.557
327I	-0.079	0.562	0.608	-2.471	0.300	-0.003	-2.051	0.608	-2.471	-0.448
328A	-0.028	1.700	0.767	-1.992	0.501	0.017	-1.891	1.700	-1.992	-0.132
329A	0.819	2.531	1.281	-1.334	0.966	0.636	-2.327	2.531	-2.327	0.367
330T	0.952	3.070	1.711	-0.817	1.440	1.261	-1.318	3.070	-1.318	0.900
331S	1.818	3.070	2.300	-0.800	2.096	1.854	-1.575	3.070	-1.575	1.252
332R	2.317	2.215	2.571	-1.002	2.415	2.343	-0.573	2.571	-1.002	1.469
333R	2.564	0.898	2.898	-1.160	2.789	2.385	0.600	2.898	-1.160	1.568
334K	2.368	0.660	2.702	-0.914	2.634	2.365	-0.451	2.702	-0.914	1.338
335D	1.325	-0.346	2.571	-0.696	2.497	2.370	-0.588	2.571	-0.696	1.019
336Q	1.552	-0.981	2.468	-0.704	2.388	2.345	-0.614	2.468	-0.981	0.922
337A	0.705	-0.641	1.973	-1.106	1.868	1.725	-0.362	1.973	-1.106	0.595
338W	0.111	-0.815	1.403	-1.513	1.221	1.132	0.162	1.403	-1.513	0.243
339E	-0.161	-0.312	1.580	-1.791	1.540	1.237	0.236	1.580	-1.791	0.333
340F	-1.122	-0.396	1.188	-1.711	1.121	1.199	0.324	1.199	-1.711	0.086
341V	-1.122	0.405	1.188	-1.643	1.121	1.199	0.324	1.199	-1.643	0.210
342K	-0.161	0.860	1.365	-1.488	1.257	1.194	0.342	1.365	-1.488	0.481
343F	-0.294	-0.068	1.029	-1.331	0.847	0.594	0.369	1.029	-1.331	0.164
344A	0.421	0.734	1.337	-1.041	1.166	0.609	0.338	1.337	-1.041	0.509
345T	0.421	1.225	1.337	-0.854	1.166	0.609	0.338	1.337	-0.854	0.606
346G	0.421	0.734	0.879	-0.716	0.483	0.015	0.273	0.879	-0.716	0.298
347P	1.382	-0.098	1.272	-0.817	0.902	0.053	0.185	1.382	-0.817	0.411
348V	1.382	-0.781	1.272	-0.950	0.902	0.053	0.185	1.382	-0.950	0.295
349G	0.471	-0.058	0.991	-1.231	0.756	0.038	0.579	0.991	-1.231	0.221
350Q	-0.395	-0.110	0.860	-1.543	0.784	0.040	0.901	0.901	-1.543	0.077
351A	-0.167	0.255	0.608	-1.953	0.465	0.021	0.681	0.681	-1.953	-0.013

352L	0.560	1.068	1.057	-2.305	0.838	0.619	0.066	1.068	-2.305	0.272
353I	0.610	1.068	1.216	-2.213	1.039	0.639	0.225	1.216	-2.213	0.369
354G	0.496	1.219	1.318	-1.960	1.139	1.221	0.061	1.318	-1.960	0.499
355E	-0.218	0.495	1.234	-1.465	1.148	1.227	1.506	1.506	-1.465	0.561
356S	-0.218	0.279	1.253	-1.191	1.093	1.226	1.323	1.323	-1.191	0.538
357R	0.054	-0.673	1.272	-1.199	1.103	1.225	1.590	1.590	-1.199	0.482
358L	-0.174	-1.690	1.524	-1.258	1.422	1.244	1.809	1.809	-1.690	0.411
359F	-0.901	-0.673	1.075	-1.199	1.048	0.646	2.424	2.424	-1.199	0.346
360V	-1.893	0.357	0.842	-1.190	0.902	0.632	2.699	2.699	-1.893	0.335
361P	-1.893	0.453	0.842	-1.281	0.902	0.632	2.699	2.699	-1.893	0.336
362V	-0.901	-0.230	1.075	-1.333	1.048	0.646	2.424	2.424	-1.333	0.390
363L	-0.186	0.475	1.141	-1.500	1.093	0.642	1.163	1.163	-1.500	0.404
364R	-0.458	1.535	1.122	-1.381	1.084	0.642	0.896	1.535	-1.381	0.492
365S	-0.148	0.812	1.178	-0.966	1.121	0.664	0.563	1.178	-0.966	0.461
366A	0.496	0.584	1.449	-0.334	1.285	0.682	0.134	1.449	-0.334	0.614
367I	1.211	0.409	1.692	0.754	1.449	1.297	-0.034	1.692	-0.034	0.968
368N	1.306	0.734	1.253	1.772	0.929	0.672	-0.032	1.772	-0.032	0.948
369S	0.313	0.734	1.038	2.353	0.729	0.656	0.059	2.353	0.059	0.840
370H	0.313	-0.122	1.038	1.994	0.729	0.656	0.059	1.994	-0.122	0.667
371G	1.261	-0.122	1.477	1.529	1.057	0.695	-0.376	1.529	-0.376	0.789
372F	0.952	0.065	1.178	0.692	0.747	0.655	-1.273	1.178	-1.273	0.431
373A	0.673	1.052	1.188	0.975	0.765	1.254	-1.165	1.254	-1.165	0.678
374N	0.806	0.956	1.459	1.066	1.066	1.259	-1.434	1.459	-1.434	0.740
375A	0.711	0.974	1.898	1.177	1.586	1.884	-1.435	1.898	-1.435	0.971
376H	1.059	1.583	1.842	0.427	1.622	1.881	-1.097	1.881	-1.097	1.045
377R	1.287	1.289	1.832	-0.458	1.576	1.881	-0.087	1.881	-0.458	1.046
378R	1.287	0.475	1.832	-1.093	1.576	1.881	-0.087	1.881	-1.093	0.839
379V	0.572	-0.434	1.748	-0.911	1.586	1.887	1.358	1.887	-0.911	0.829
380G	0.572	-0.542	1.589	-0.463	1.412	1.267	0.081	1.589	-0.542	0.560
381N	0.073	-0.314	1.038	-0.142	0.929	0.644	0.671	1.038	-0.314	0.414
382L	-0.774	-0.348	0.524	-0.473	0.465	0.024	1.106	1.106	-0.774	0.075
383A	-0.129	0.483	0.795	-1.017	0.629	0.043	0.677	0.795	-1.017	0.212
384V	0.003	0.842	1.132	-1.312	1.039	0.642	0.651	1.132	-1.312	0.428
385L	-0.079	0.938	0.823	-1.328	0.683	0.602	0.764	0.938	-1.328	0.343
386S	0.636	0.736	1.150	-0.929	0.948	0.615	0.549	1.150	-0.929	0.529
387E	0.636	0.736	1.150	-0.787	0.948	0.615	0.549	1.150	-0.787	0.550
388G	0.749	0.736	1.524	-0.800	1.194	0.633	0.293	1.524	-0.800	0.618
389P	1.742	0.736	1.758	-0.639	1.339	0.648	0.017	1.758	-0.639	0.800
390A	1.824	0.173	1.935	-0.638	1.549	1.227	-0.169	1.935	-0.638	0.843
391Y	1.691	0.532	1.599	-0.471	1.139	0.628	-0.142	1.691	-0.471	0.711
392S	0.749	0.842	1.524	-0.607	1.194	0.633	0.293	1.524	-0.607	0.661
393E	0.749	0.477	1.524	-0.858	1.194	0.633	0.293	1.524	-0.858	0.573
394G	0.383	0.261	1.403	-1.162	1.185	0.635	1.891	1.891	-1.162	0.656
395L	0.832	-0.366	1.346	-1.140	1.103	0.635	1.600	1.600	-1.140	0.573
396P	0.553	-0.665	1.440	-0.983	1.221	0.634	1.660	1.660	-0.983	0.552
397V	0.193	-0.448	1.113	-0.646	0.856	0.035	0.676	1.113	-0.646	0.254
398T	-0.800	0.479	1.141	-0.585	0.920	0.060	0.698	1.141	-0.800	0.273
399P	0.275	-0.336	1.552	-0.780	1.276	0.654	0.237	1.552	-0.780	0.411
400A	0.503	-0.695	1.758	-1.358	1.640	1.230	0.082	1.758	-1.358	0.451
401W	0.231	-0.695	1.739	-1.965	1.631	1.230	-0.185	1.739	-1.965	0.284
402E	0.035	-0.396	1.543	-2.468	1.476	1.210	-1.236	1.543	-2.468	0.023
403K	0.035	-1.085	1.300	-2.768	1.203	1.191	-2.466	1.300	-2.768	-0.370
404I	-0.680	-1.378	1.216	-2.780	1.212	1.196	-1.021	1.216	-2.780	-0.319
405A	-0.313	-0.240	1.188	-2.751	1.239	1.188	-1.098	1.239	-2.751	-0.112
406A	-0.174	-0.647	1.132	-2.392	1.194	1.078	-1.081	1.194	-2.392	-0.127
407L	-0.269	-0.821	1.113	-2.080	1.030	1.108	-1.147	1.113	-2.080	-0.152
408M	0.117	0.011	1.505	-1.527	1.285	1.125	-1.136	1.505	-1.527	0.197
409D	-0.597	0.483	1.440	-1.125	1.239	1.130	0.125	1.440	-1.125	0.385
410R	-0.370	-0.152	1.431	-0.889	1.194	1.130	1.135	1.431	-0.889	0.497

411Y	0.345	-1.170	1.758	-0.773	1.458	1.143	0.920	1.758	-1.170	0.526
412F	0.376	0.051	1.646	-0.689	1.403	1.128	1.564	1.646	-0.689	0.783
413G	-0.838	0.852	1.290	-0.841	1.093	0.644	2.008	2.008	-0.841	0.601
414P	-0.838	1.080	1.290	-1.060	1.093	0.644	2.008	2.008	-1.060	0.603
415V	-0.357	1.535	1.029	-1.491	0.811	0.625	1.676	1.676	-1.491	0.547
416L	0.636	1.990	1.244	-1.716	1.011	0.641	1.585	1.990	-1.716	0.770
417R	0.541	2.194	1.683	-1.641	1.531	1.265	1.584	2.194	-1.641	1.022
418G	0.541	1.872	1.683	-1.177	1.531	1.265	1.584	1.872	-1.177	1.043
419S	0.907	2.100	1.804	-0.788	1.540	1.264	-0.015	2.100	-0.788	0.973
420R	1.818	1.040	2.085	-0.526	1.686	1.278	-0.409	2.085	-0.526	0.996
421P	1.963	0.718	1.804	-0.386	1.367	0.674	-0.249	1.963	-0.386	0.842
422A	1.021	0.986	1.730	-0.269	1.422	0.679	0.186	1.730	-0.269	0.822
423T	0.939	0.782	1.776	-0.162	1.422	0.679	0.067	1.776	-0.162	0.786
424S	1.034	1.147	1.337	-0.105	0.902	0.054	0.068	1.337	-0.105	0.634
425L	0.319	0.782	1.010	-0.447	0.638	0.041	0.283	1.010	-0.447	0.375
426T	0.598	0.986	1.160	-0.652	0.793	0.061	1.453	1.453	-0.652	0.628
427G	0.648	0.399	1.290	-0.733	1.011	0.083	1.576	1.576	-0.733	0.611
428L	0.370	0.311	1.141	-0.654	0.856	0.063	0.406	1.141	-0.654	0.356
429S	0.718	1.091	1.103	-0.485	0.838	0.059	0.560	1.103	-0.485	0.555
430Q	1.021	0.139	1.178	-0.405	1.002	0.528	0.510	1.178	-0.405	0.568
431A	1.154	-0.556	1.515	-0.553	1.412	1.128	0.483	1.515	-0.556	0.655
432V	1.502	0.257	1.477	-0.564	1.394	1.124	0.637	1.502	-0.564	0.832
433D	0.509	0.962	1.244	-0.835	1.248	1.109	0.912	1.248	-0.835	0.736
434E	0.395	0.782	1.346	-1.213	1.349	1.692	0.748	1.692	-1.213	0.728
435V	0.705	0.461	1.646	-1.311	1.658	1.732	1.645	1.732	-1.311	0.934
436L	1.072	0.812	2.010	-0.987	1.941	1.750	1.276	2.010	-0.987	1.125
437R	0.440	1.271	1.281	-0.210	1.941	1.321	0.275	1.941	-0.210	0.903
438N	-0.054	0.712	0.496	0.664	1.895	0.781	-0.709	1.895	-0.709	0.541
439P	0.180	0.357	0.160	0.970	2.224	0.840	-2.307	2.224	-2.307	0.346

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]MVNKPFERRSLLRGAGALTAASLAPWAAGCAADDDDALTFFFAANPDELRPRMRVVNEFQRRYPDI KVRALLSGPGVMQQLATFCAGGKCPDVLMAWELTYAELADRGVLLDLNTLLARDQAFAAELKSDSIG ALYETFTFNGGQYAFPEQWSGNFLFYNKQLFDDAGVPPPPGSWERPWSFAEFLDAAQALTKQGRS GRDRQWGFVNAWVSFYAAGLFAMNNGVPWSVPRMNPTHLNFDHDGFLEAVQFYADLTNKHKVAP SAAEQQSMSTADLFSVGKAGIALAGHWRYQTFDRADGLDFDVAPLPIGPRGRAACSDIGVTGLAIAA TSRRKDQAWEFVKFATGPVGQALIGESRLFVPVLRSAINSHGFANAHRRVGNLAVLSEGPAYSEGLP VTPAWEKIAALMDRYFGPVLRGSRPATSLTGLSQAVDEVLRNP[439]
Hydrophilicity	[1]MVNKPFERRSLLRGAGALTAASLAPWAAGCAADDDDALTFFFAANPDELRPRMRVVNEFQRRYPDI KVRALLSGPGVMQQLATFCAGGKCPDVLMAWELTYAELADRGVLLDLNTLLARDQAFAAELKSDSIG ALYETFTFNGGQYAFPEQWSGNFLFYNKQLFDDAGVPPPPGSWERPWSFAEFLDAAQALTKQGRS GRDRQWGFVNAWVSFYAAGLFAMNNGVPWSVPRMNPTHLNFDHDGFLEAVQFYADLTNKHKVAP SAAEQQSMSTADLFSVGKAGIALAGHWRYQTFDRADGLDFDVAPLPIGPRGRAACSDIGVTGLAIAA TSRRKDQAWEFVKFATGPVGQALIGESRLFVPVLRSAINSHGFANAHRRVGNLAVLSEGPAYSEGLP VTPAWEKIAALMDRYFGPVLRGSRPATSLTGLSQAVDEVLRNP[439]
Flexibility	[1]MVNKPFERRSLLRGAGALTAASLAPWAAGCAADDDDALTFFFAANPDELRPRMRVVNEFQRRYPDI KVRALLSGPGVMQQLATFCAGGKCPDVLMAWELTYAELADRGVLLDLNTLLARDQAFAAELKSDSIG ALYETFTFNGGQYAFPEQWSGNFLFYNKQLFDDAGVPPPPGSWERPWSFAEFLDAAQALTKQGRS GRDRQWGFVNAWVSFYAAGLFAMNNGVPWSVPRMNPTHLNFDHDGFLEAVQFYADLTNKHKVAP SAAEQQSMSTADLFSVGKAGIALAGHWRYQTFDRADGLDFDVAPLPIGPRGRAACSDIGVTGLAIAA TSRRKDQAWEFVKFATGPVGQALIGESRLFVPVLRSAINSHGFANAHRRVGNLAVLSEGPAYSEGLP VTPAWEKIAALMDRYFGPVLRGSRPATSLTGLSQAVDEVLRNP[439]
Accessibility	[1]MVNKPFERRSLLRGAGALTAASLAPWAAGCAADDDDALTFFFAANPDELRPRMRVVNEFQRRYPDI KVRALLSGPGVMQQLATFCAGGKCPDVLMAWELTYAELADRGVLLDLNTLLARDQAFAAELKSDSIG ALYETFTFNGGQYAFPEQWSGNFLFYNKQLFDDAGVPPPPGSWERPWSFAEFLDAAQALTKQGRS GRDRQWGFVNAWVSFYAAGLFAMNNGVPWSVPRMNPTHLNFDHDGFLEAVQFYADLTNKHKVAP SAAEQQSMSTADLFSVGKAGIALAGHWRYQTFDRADGLDFDVAPLPIGPRGRAACSDIGVTGLAIAA TSRRKDQAWEFVKFATGPVGQALIGESRLFVPVLRSAINSHGFANAHRRVGNLAVLSEGPAYSEGLP VTPAWEKIAALMDRYFGPVLRGSRPATSLTGLSQAVDEVLRNP[439]
Turns	[1]MVNKPFERRSLLRGAGALTAASLAPWAAGCAADDDDALTFFFAANPDELRPRMRVVNEFQRRYPDI KVRALLSGPGVMQQLATFCAGGKCPDVLMAWELTYAELADRGVLLDLNTLLARDQAFAAELKSDSIG ALYETFTFNGGQYAFPEQWSGNFLFYNKQLFDDAGVPPPPGSWERPWSFAEFLDAAQALTKQGRS GRDRQWGFVNAWVSFYAAGLFAMNNGVPWSVPRMNPTHLNFDHDGFLEAVQFYADLTNKHKVAP SAAEQQSMSTADLFSVGKAGIALAGHWRYQTFDRADGLDFDVAPLPIGPRGRAACSDIGVTGLAIAA TSRRKDQAWEFVKFATGPVGQALIGESRLFVPVLRSAINSHGFANAHRRVGNLAVLSEGPAYSEGLP VTPAWEKIAALMDRYFGPVLRGSRPATSLTGLSQAVDEVLRNP[439]
Exposed Surface	[1]MVNKPFERRSLLRGAGALTAASLAPWAAGCAADDDDALTFFFAANPDELRPRMRVVNEFQRRYPDI KVRALLSGPGVMQQLATFCAGGKCPDVLMAWELTYAELADRGVLLDLNTLLARDQAFAAELKSDSIG ALYETFTFNGGQYAFPEQWSGNFLFYNKQLFDDAGVPPPPGSWERPWSFAEFLDAAQALTKQGRS GRDRQWGFVNAWVSFYAAGLFAMNNGVPWSVPRMNPTHLNFDHDGFLEAVQFYADLTNKHKVAP SAAEQQSMSTADLFSVGKAGIALAGHWRYQTFDRADGLDFDVAPLPIGPRGRAACSDIGVTGLAIAA TSRRKDQAWEFVKFATGPVGQALIGESRLFVPVLRSAINSHGFANAHRRVGNLAVLSEGPAYSEGLP VTPAWEKIAALMDRYFGPVLRGSRPATSLTGLSQAVDEVLRNP[439]
Polarity	[1]MVNKPFERRSLLRGAGALTAASLAPWAAGCAADDDDALTFFFAANPDELRPRMRVVNEFQRRYPDI KVRALLSGPGVMQQLATFCAGGKCPDVLMAWELTYAELADRGVLLDLNTLLARDQAFAAELKSDSIG ALYETFTFNGGQYAFPEQWSGNFLFYNKQLFDDAGVPPPPGSWERPWSFAEFLDAAQALTKQGRS GRDRQWGFVNAWVSFYAAGLFAMNNGVPWSVPRMNPTHLNFDHDGFLEAVQFYADLTNKHKVAP SAAEQQSMSTADLFSVGKAGIALAGHWRYQTFDRADGLDFDVAPLPIGPRGRAACSDIGVTGLAIAA TSRRKDQAWEFVKFATGPVGQALIGESRLFVPVLRSAINSHGFANAHRRVGNLAVLSEGPAYSEGLP VTPAWEKIAALMDRYFGPVLRGSRPATSLTGLSQAVDEVLRNP[439]
Antigenic Propensity	[1]MVNKPFERRSLLRGAGALTAASLAPWAAGCAADDDDALTFFFAANPDELRPRMRVVNEFQRRYPDI KVRALLSGPGVMQQLATFCAGGKCPDVLMAWELTYAELADRGVLLDLNTLLARDQAFAAELKSDSIG

	ALYETFTFNGGQYAFPEQWSGNFLFYNKQLFDDAGVPPPPGSWERPWSFAEFLDAAQALTKQGRS GRDRQWGFVNAWVSFYAAGLFAMNNGVPWSVPRMNPTHLNFDHDGFLEAVQFYADLTNKHKVAP SAAEQQSMSTADLFSVGKAGIALAGHWRYQTFDRADGLDFDVAPLPIGPRGRAACSDIGVTGLAIAA TSRRKDQAWEFVKFATGPVGQALIGESRLFVPVLRSAINSHGFANAHRRVGNLAVLSEGPAYSEGLP VTPAWEKIAALMDRYFGPVLRGSRPATSLTGLSQAVDEVLRNP[439]

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