BcePred Prediction Server

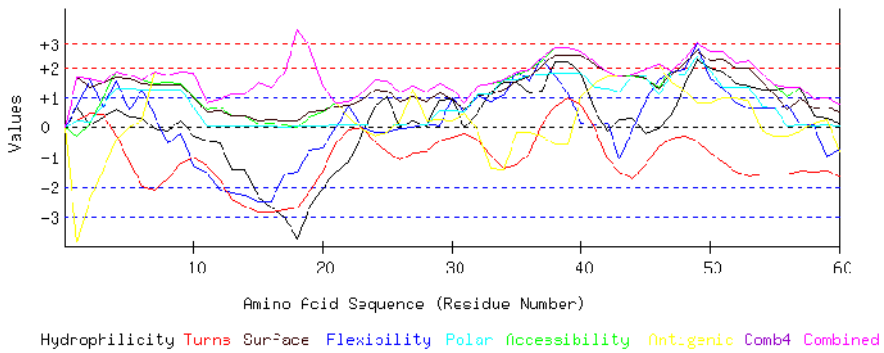
The server displays 1.GRAPHICAL RESULT 2.TABULAR RESULT 3.Overlap Display

seqname=
Seq= MNASLRRISVTVMALIVLLLLNATMTQVFTADGLRADPRNQRVLLDEYSRQRGQITAGGQ
LLAYSVATDGRFRFLRVYPNPEVYAPVTGFYSLRYSSTALERAEDPILNGSDRRLFGRRL
ADFFTGRDPRGGNVDTTINPRIQQAGWDAMQQGCYGPCKGAVVALEPSTGKILALVSSPS
YDPNLLASHNPEVQAQAWQRLGDNPASPLTNRAISETYPPGSTFKVITTAAALAAGATET
EQLTAAPTIPLPGSTAQLENYGGAPCGDEPTVSLREAFVKSCNTAFVQLGIRTGADALRS
MARAFGLDSPPRPTPLQVAESTVGPIPDSAALGMTSIGQKDVALTPLANAEIAATIANGG
ITMRPYLVGSLKGPDLANISTTVGYQQRRAVSPQVAAKLTELMVGAEKVAQQKGAIPGVQ
IASKTGTAEHGTDPRHTPPHAWYIAFAPAQAPKVAVAVLVENGADRLSATGGALAAPIGR
AVIEAALQGEP

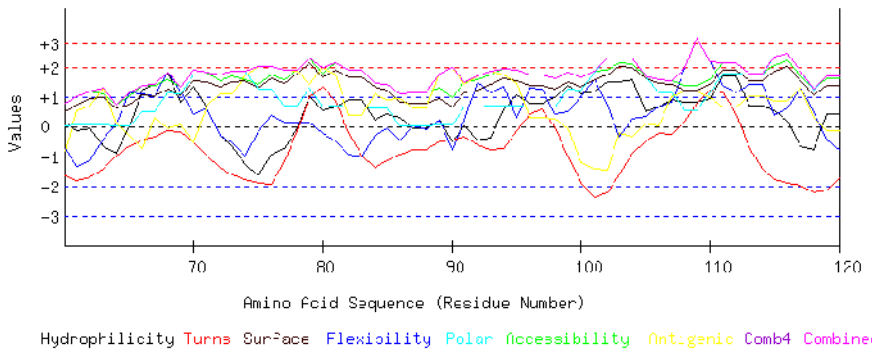
Length=491

GRAPHICAL RESULT

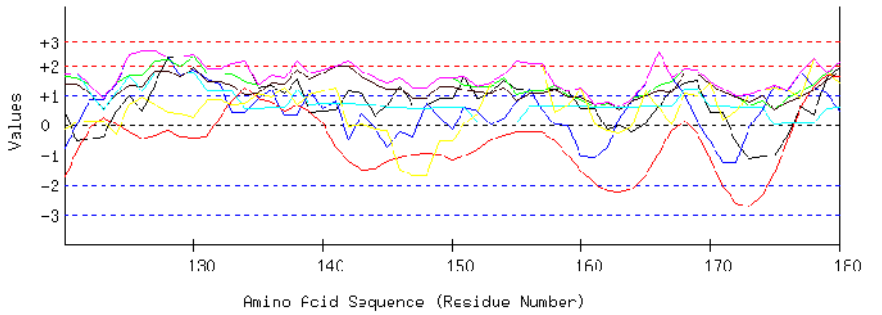
GRAPHICAL RESULT :: SEQ 1 to 60



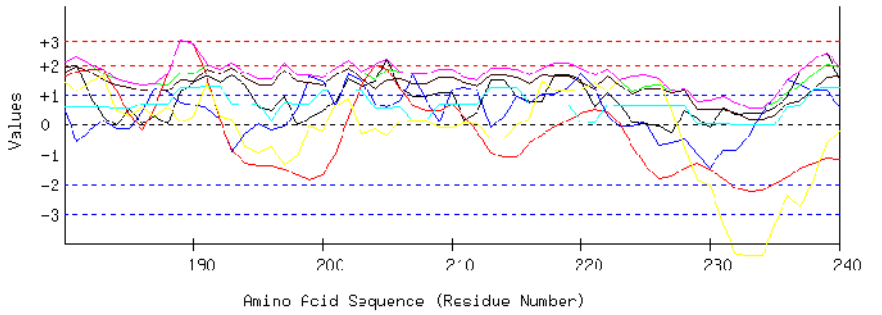
GRAPHICAL RESULT :: SEQ 61 to 120



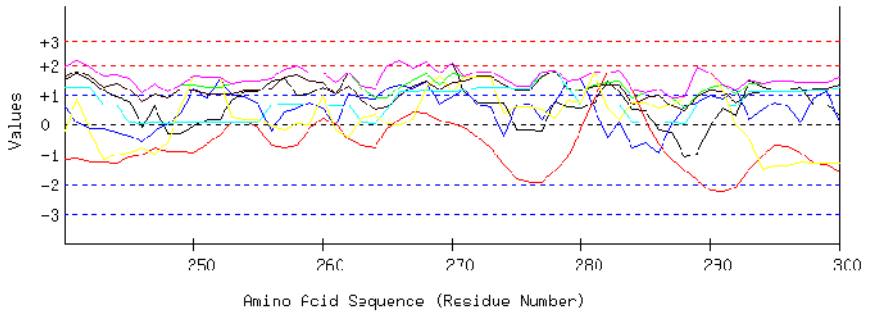
GRAPHICAL RESULT :: SEQ 121 to 180



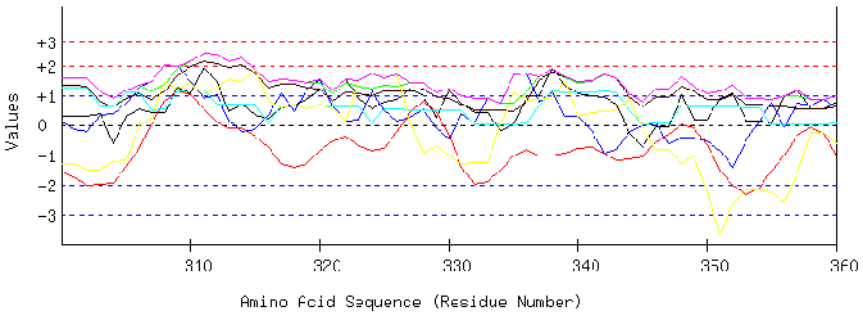
GRAPHICAL RESULT :: SEQ 181 to 240



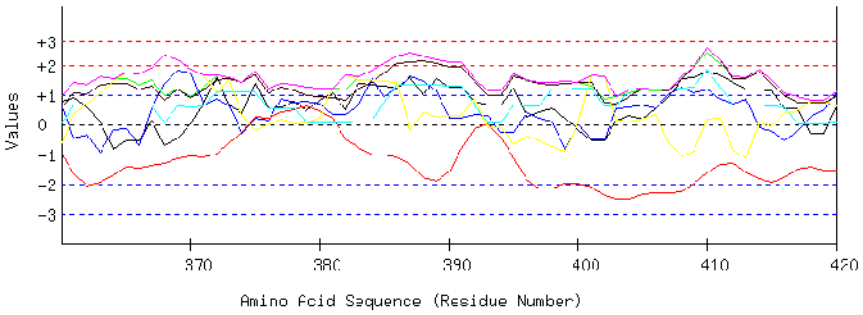
GRAPHICAL RESULT :: SEQ 241 to 300



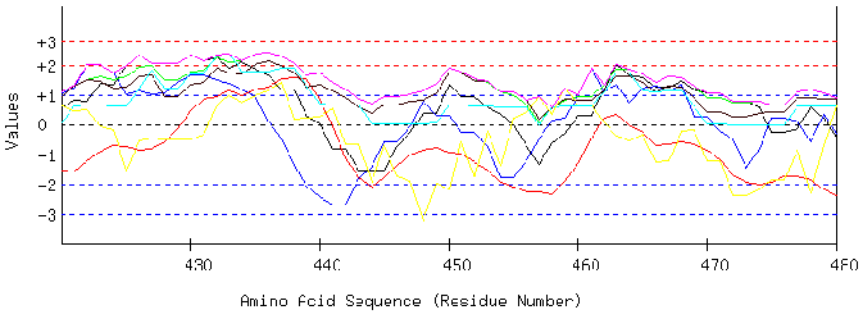
GRAPHICAL RESULT :: SEQ 301 to 360



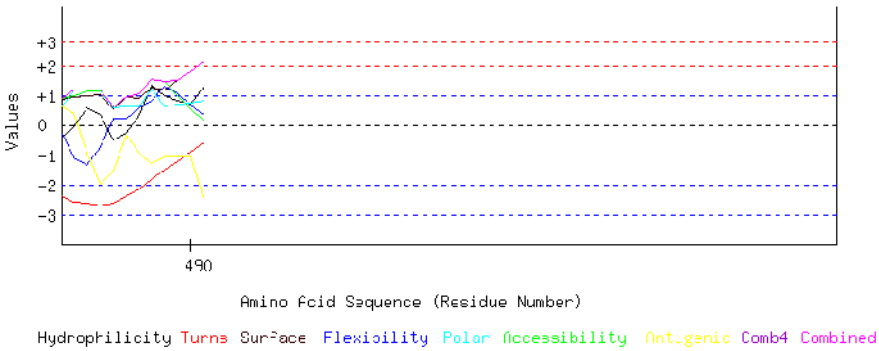
GRAPHICAL RESULT :: SEQ 361 to 420



GRAPHICAL RESULT :: SEQ 421 to 480



GRAPHICAL RESULT :: SEQ 481 to 540



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

MNASLRRISVTVMALIVLLLLNATMTQVFTADGLRADPRNQRVLLDEYSRQRGQITAGGQ
LLAYSVATDGRFRFLRVYPNPEVYAPVTGFYSLRYSSTALERAEDPILNGSDRRLFGRRL
ADFFTGRDPRGGNVDTTINPRIQQAGWDAMQQGCYGPCKGAVVALEPSTGKILALVSSPS
YDPNLLASHNPEVQAQAWQRLGDNPASPLTNRAISETYPPGSTFKVITTAAALAAGATET
EQLTAAPTIPLPGSTAQLENYGGAPCGDEPTVSLREAFVKSCNTAFVQLGIRTGADALRS
MARAFGLDSPPRPTPLQVAESTVGPIPDSAALGMTSIGQKDVALTPLANAEIAATIANGG
ITMRPYLVGSLKGPDLANISTTVGYQQRRAVSPQVAAKLTELMVGAEKVAQQKGAIPGVQ
IASKTGTAEHGTDPRHTPPHAWYIAFAPAQAPKVAVAVLVENGADRLSATGGALAAPIGR
AVIEAALQGEP

Length=491

A.A. pppppppppppppppppppppppppppppp Parameter pppppppppppppppppppppppppppppppp Combined

		Hydro	Flexi	Access	Turns	Surface	Polar	AntiPro	MAX	MIN	AVG
1	M	0.642	0.686	-0.289	0.200	1.668	0.228	-3.867	1.668	-3.867	-0.105
2	N	0.060	1.613	0.085	0.449	1.358	0.173	-2.422	1.613	-2.422	0.188
3	A	0.326	0.680	0.973	0.433	1.513	0.738	-1.413	1.513	-1.413	0.464
4	S	0.591	1.535	1.860	-0.297	1.668	1.302	-0.403	1.860	-0.403	0.894
5	L	0.351	0.584	1.730	-1.165	1.604	1.287	-0.027	1.730	-1.165	0.623
6	R	0.319	1.279	1.580	-1.984	1.449	1.267	0.246	1.580	-1.984	0.594
7	R	-0.047	0.369	1.459	-2.091	1.440	1.268	1.845	1.845	-2.091	0.606
8	I	-0.129	-0.558	1.505	-1.731	1.440	1.268	1.726	1.726	-1.731	0.503
9	S	0.218	-0.234	1.468	-1.221	1.422	1.264	1.880	1.880	-1.221	0.685
10	V	-0.313	-1.294	1.029	-1.018	0.993	0.657	1.825	1.825	-1.294	0.268
11	T	-0.446	-1.522	0.599	-1.316	0.519	0.032	0.816	0.816	-1.522	-0.188
12	V	-0.521	-2.109	0.655	-1.781	0.547	0.036	0.930	0.930	-2.109	-0.321
13	M	-1.438	-2.217	0.365	-2.424	0.373	0.017	1.091	1.091	-2.424	-0.605
14	A	-1.438	-2.308	0.365	-2.677	0.373	0.017	1.091	1.091	-2.677	-0.654
15	L	-2.349	-2.512	0.085	-2.862	0.228	0.003	1.486	1.486	-2.862	-0.846
16	I	-2.696	-2.512	0.122	-2.859	0.246	0.007	1.332	1.332	-2.859	-0.909
17	V	-3.013	-1.578	0.047	-2.779	0.209	-0.005	1.822	1.822	-3.013	-0.757
18	L	-3.727	-1.482	-0.037	-2.716	0.218	0.000	3.267	3.267	-3.727	-0.639
19	L	-2.703	-0.787	0.346	-2.177	0.519	0.035	2.719	2.719	-2.703	-0.292
20	L	-2.064	-0.697	0.487	-1.516	0.537	0.034	1.387	1.387	-2.064	-0.262
21	L	-1.501	-0.001	0.804	-0.553	0.701	0.052	0.839	0.839	-1.501	0.049
22	N	-1.185	0.694	0.879	-0.081	0.738	0.064	0.349	0.879	-1.185	0.208
23	A	-0.275	-0.011	1.160	-0.021	0.884	0.078	-0.045	1.160	-0.275	0.253
24	T	0.686	-0.186	1.571	-0.501	1.248	0.115	-0.317	1.571	-0.501	0.374
25	M	1.034	-0.186	1.533	-0.826	1.230	0.111	-0.163	1.533	-0.826	0.391
26	T	0.010	-0.072	1.169	-1.082	0.875	0.075	0.201	1.169	-1.082	0.168
27	Q	0.206	-0.023	1.365	-0.846	1.030	0.095	1.252	1.365	-0.846	0.440
28	V	0.010	0.113	1.169	-0.806	0.875	0.075	0.201	1.169	-0.806	0.234
29	F	0.907	0.005	1.449	-0.470	1.148	0.547	0.247	1.449	-0.470	0.548
30	T	0.939	0.992	1.244	-0.330	0.948	0.527	0.207	1.244	-0.330	0.647
31	A	-0.022	0.501	0.832	-0.215	0.583	0.490	0.479	0.832	-0.215	0.378
32	D	0.477	1.040	1.384	-0.412	1.066	1.113	-0.111	1.384	-0.412	0.651
33	G	1.192	0.860	1.449	-0.950	1.112	1.109	-1.372	1.449	-1.372	0.486
34	L	1.495	1.046	1.524	-1.369	1.276	1.578	-1.422	1.578	-1.422	0.590

35	R	1.495	1.860	1.767	-1.250	1.549	1.597	-0.192	1.860	-1.250	0.975
36	A	1.129	1.537	1.926	-0.867	1.704	1.732	-0.184	1.926	-0.867	0.997
37	D	1.211	2.351	2.234	0.090	2.060	1.773	-0.297	2.351	-0.297	1.346
38	P	2.172	1.716	2.646	0.702	2.424	1.810	-0.569	2.646	-0.569	1.557
39	R	2.172	1.153	2.646	0.972	2.424	1.810	-0.569	2.646	-0.569	1.515
40	N	1.805	0.135	2.524	0.755	2.415	1.812	1.030	2.524	0.135	1.497
41	Q	0.591	0.065	2.169	-0.008	2.105	1.328	1.474	2.169	-0.008	1.103
42	R	-0.123	0.149	1.842	-1.046	1.841	1.315	1.689	1.842	-1.046	0.809
43	V	0.244	-1.071	1.683	-1.494	1.686	1.179	1.681	1.686	-1.494	0.558
44	L	0.294	-0.120	1.711	-1.736	1.741	1.738	1.768	1.768	-1.736	0.771
45	L	-0.205	0.898	1.636	-1.260	1.604	1.715	1.936	1.936	-1.260	0.903
46	D	-0.060	1.593	1.356	-0.655	1.285	1.110	2.097	2.097	-0.655	0.961
47	E	0.440	1.868	1.907	-0.393	1.768	1.733	1.508	1.907	-0.393	1.261
48	Y	1.401	1.920	2.318	-0.290	2.132	1.770	1.236	2.318	-0.290	1.498
49	S	2.248	2.818	2.832	-0.460	2.597	2.389	0.800	2.832	-0.460	1.889
50	R	1.976	1.637	2.552	-0.873	2.233	1.901	0.809	2.552	-0.873	1.462
51	Q	1.862	1.315	2.552	-1.185	2.242	1.343	0.999	2.552	-1.185	1.304
52	R	1.476	0.824	2.160	-1.496	1.987	1.326	0.988	2.160	-1.496	1.038
53	G	1.394	0.638	2.206	-1.641	1.987	1.326	0.869	2.206	-1.641	0.968
54	Q	1.261	0.638	1.776	-1.600	1.513	0.701	-0.140	1.776	-1.600	0.593
55	I	1.242	0.638	1.440	-1.589	1.093	0.659	-0.303	1.440	-1.589	0.454
56	T	1.337	0.758	1.001	-1.561	0.574	0.034	-0.302	1.337	-1.561	0.263
57	A	1.356	0.063	1.337	-1.463	0.993	0.076	-0.139	1.356	-1.463	0.318
58	G	0.395	0.063	0.926	-1.502	0.629	0.039	0.133	0.926	-1.502	0.098
59	G	0.319	-0.971	0.982	-1.447	0.656	0.043	0.246	0.982	-1.447	-0.025
60	Q	0.123	-0.743	0.786	-1.653	0.501	0.023	-0.805	0.786	-1.653	-0.252
61	L	-0.129	-1.330	1.038	-1.802	0.738	0.042	0.538	1.038	-1.802	-0.129
62	L	-0.079	-1.125	1.197	-1.709	0.938	0.062	0.697	1.197	-1.709	-0.003
63	A	-0.673	-0.430	1.085	-1.402	0.975	0.064	1.286	1.286	-1.402	0.129
64	Y	-0.920	0.109	0.758	-0.984	0.601	0.022	0.112	0.758	-0.984	-0.043
65	S	-0.009	1.143	1.038	-0.679	0.747	0.036	-0.282	1.143	-0.679	0.285
66	V	1.205	1.101	1.393	-0.452	1.057	0.520	-0.726	1.393	-0.726	0.585
67	A	1.432	1.022	1.384	-0.343	1.011	0.520	0.284	1.432	-0.343	0.759
68	T	1.818	1.836	1.561	-0.159	1.248	1.125	-0.049	1.836	-0.159	1.054
69	D	0.825	1.171	1.346	-0.198	1.048	1.109	0.043	1.346	-0.198	0.763
70	G	1.325	0.427	1.898	-0.538	1.531	1.732	-0.547	1.898	-0.547	0.833
71	R	0.610	0.614	1.832	-0.964	1.485	1.736	0.714	1.832	-0.964	0.861
72	F	-0.300	-0.296	1.552	-1.361	1.339	1.722	1.109	1.722	-1.361	0.538
73	R	-0.667	-0.528	1.711	-1.612	1.494	1.858	1.117	1.858	-1.612	0.482
74	F	-1.261	-0.983	1.599	-1.784	1.531	1.859	1.705	1.859	-1.784	0.381
75	L	-1.647	-0.200	1.421	-1.916	1.294	1.254	2.038	2.038	-1.916	0.321
76	R	-0.932	0.363	1.730	-1.942	1.613	1.269	2.007	2.007	-1.942	0.587
77	V	-0.755	0.125	1.599	-1.192	1.449	0.685	1.895	1.895	-1.192	0.543
78	Y	-0.041	0.125	1.907	-0.143	1.768	0.699	1.864	1.907	-0.143	0.883
79	P	1.034	0.125	2.318	0.964	2.123	1.294	1.402	2.318	0.125	1.323
80	N	0.534	-0.234	1.767	1.350	1.640	0.670	1.992	1.992	-0.234	1.103
81	P	0.648	-0.484	2.141	0.852	1.886	0.688	1.735	2.141	-0.484	1.067
82	E	0.901	-0.939	1.889	-0.226	1.649	0.669	0.393	1.889	-0.939	0.619
83	V	0.901	-1.023	1.889	-0.969	1.649	0.669	0.393	1.889	-1.023	0.501
84	Y	0.225	-0.300	1.468	-1.380	1.330	0.630	1.095	1.468	-1.380	0.438
85	A	0.421	-0.068	1.421	-1.159	1.212	0.631	0.916	1.421	-1.159	0.482
86	P	0.288	-0.474	1.085	-0.950	0.802	0.031	0.942	1.085	-0.950	0.246
87	V	-0.060	0.023	1.141	-0.760	0.765	0.034	0.605	1.141	-0.760	0.250
88	T	-0.060	-0.086	1.141	-0.768	0.765	0.034	0.605	1.141	-0.768	0.233
89	G	0.218	0.237	1.290	-0.502	0.920	0.054	1.775	1.775	-0.502	0.570
90	F	-0.496	-0.797	0.963	-0.441	0.656	0.040	1.990	1.990	-0.797	0.274
91	Y	0.003	0.233	1.515	-0.331	1.139	0.663	1.400	1.515	-0.331	0.660
92	S	-0.446	1.495	1.571	-0.604	1.221	0.663	1.691	1.691	-0.604	0.799
93	L	-0.395	1.131	1.730	-0.785	1.422	0.683	1.851	1.851	-0.785	0.805
94	R	0.598	1.335	1.945	-0.733	1.622	0.699	1.760	1.945	-0.733	1.032
95	Y	1.046	0.317	1.889	-0.133	1.540	0.699	1.468	1.889	-0.133	0.975
96	S	0.768	1.299	1.739	0.407	1.385	0.679	0.298	1.739	0.298	0.939
97	S	0.768	1.257	1.739	0.571	1.385	0.679	0.298	1.739	0.298	0.957
98	T	0.996	0.401	1.636	-0.012	1.276	0.654	0.273	1.636	-0.012	0.746
99	A	1.382	0.485	1.814	-1.001	1.513	1.260	-0.060	1.814	-1.001	0.770
100	L	1.103	1.024	1.664	-1.889	1.358	1.239	-1.230	1.664	-1.889	0.467
101	E	1.186	1.587	1.842	-2.391	1.567	1.819	-1.416	1.842	-2.391	0.599
102	R	1.489	0.688	1.917	-2.213	1.731	2.288	-1.466	2.288	-2.213	0.633
103	A	1.489	-0.330	2.160	-1.613	2.005	2.307	-0.236	2.307	-1.613	0.826
104	E	1.565	0.279	2.103	-0.898	1.977	2.303	-0.349	2.303	-0.898	0.997
105	D	0.490	0.331	1.692	-0.489	1.622	1.709	0.112	1.709	-0.489	0.781
106	P	0.667	0.648	1.561	-0.202	1.458	1.125	0.000	1.561	-0.202	0.751
107	I	0.895	0.828	1.552	-0.277	1.412	1.125	1.010	1.552	-0.277	0.935
108	L	0.813	1.966	1.375	0.183	1.203	0.546	1.197	1.966	0.183	1.040
109	N	0.813	2.984	1.375	0.780	1.203	0.546	1.197	2.984	0.546	1.271
110	G	0.945	2.170	1.561	1.233	1.403	1.151	0.976	2.170	0.945	1.349
111	S	1.717	1.369	2.132	1.132	1.895	1.774	0.653	2.132	0.653	1.525
112	D	1.717	1.141	2.132	0.419	1.895	1.774	0.653	2.132	0.419	1.390
113	R	0.692	1.415	1.767	-0.702	1.540	1.738	1.017	1.767	-0.702	1.067
114	R	0.692	1.415	1.767	-1.402	1.540	1.738	1.017	1.767	-1.402	0.967
115	L	0.547	0.397	2.047	-1.764	1.859	2.342	0.857	2.342	-1.764	0.898
116	F	0.180	0.602	2.206	-1.904	2.014	2.478	0.865	2.478	-1.904	0.920
117	G	-0.667	1.315	1.692	-1.968	1.549	1.859	1.301	1.859	-1.968	0.726
118	R	-0.800	0.513	1.262	-2.234	1.075	1.234	0.291	1.262	-2.234	0.192
119	R	0.414	-0.474	1.617	-2.141	1.385	1.718	-0.153	1.718	-2.141	0.338
120	L	0.414	-0.797	1.617	-1.734	1.385	1.718	-0.153	1.718	-1.734	0.350
121	A	-0.528	0.035	1.561	-0.874	1.385	1.722	0.098	1.722	-0.874	0.486
122	D	-0.465	0.848	1.328	-0.081	1.066	1.117	0.140	1.328	-0.465	0.565
123	F	-0.370	0.848	0.889	0.269	0.547	0.493	0.141	0.889	-0.370	0.402
124	F	0.477	1.381	1.403	0.015	1.011	1.112	-0.295	1.403	-0.295	0.729
125	T	0.977	2.369	1.674	-0.236	1.330	1.601	0.706	2.369	-0.236	1.203
126	G	0.477	2.505	1.646	-0.468	1.285	1.131	0.935	2.505	-0.468	1.073
127	R	1.325	2.505	2.141	-0.335	1.804	1.751	0.683	2.505	-0.335	1.411
128	D	2.267	2.301	2.197	-0.193	1.804	1.747	0.432	2.301	-0.193	1.508
129	P	2.298	1.666	1.991	-0.369	1.604	1.727	0.392	2.298	-0.369	1.330
130	R	2.381	1.846	2.300	-0.410	1.959	1.768	0.279	2.381	-0.410	1.446
131	G	1.881	1.523	1.748	-0.360	1.476	1.145	0.868	1.881	-0.360	1.183
132	G	1.881	1.387	1.748	0.244	1.476	1.145	0.868	1.881	0.244	1.250
133	N	2.077	0.435	1.702	0.824	1.358	1.146	0.689	2.077	0.435	1.176
134	V	2.140	0.435	1.468	1.273	1.039	0.541	0.731	2.140	0.435	1.090
135	D	1.274	0.890	1.337	0.917	1.066	0.543	1.052	1.337	0.543	1.011
136	T	1.356	1.165	1.646	0.798	1.422	0.583	0.939	1.646	0.583	1.130
137	T	1.046	0.349	1.589	0.445	1.385	0.562	1.272	1.589	0.349	0.950
138	I	1.546	0.349	2.141	0.662	1.868	1.185	0.682	2.141	0.349	1.205
139	N	0.408	1.165	1.730	0.467	1.531	0.698	1.013	1.730	0.408	1.002

140P	0.459	0.556	1.860	0.079	1.750	0.720	1.135	1.860	0.079	0.937
141R	0.509	0.824	1.991	-0.729	1.968	0.743	1.258	1.991	-0.729	0.938
142I	1.148	-0.492	2.132	-1.202	1.987	0.741	-0.074	2.132	-1.202	0.606
143Q	1.065	0.371	1.823	-1.484	1.631	0.700	0.039	1.823	-1.484	0.592
144Q	0.300	-0.120	1.599	-1.450	1.376	0.706	-0.158	1.599	-1.450	0.322
145A	0.667	-0.725	1.440	-1.218	1.221	0.571	-0.166	1.440	-1.218	0.256
146G	1.306	-0.234	1.580	-1.094	1.239	0.569	-1.498	1.580	-1.498	0.267
147W	0.661	-0.370	1.244	-0.971	0.911	0.544	-1.717	1.244	-1.717	0.043
148D	0.661	0.760	1.244	-0.927	0.911	0.544	-1.717	1.244	-1.717	0.211
149A	0.907	0.257	1.571	-1.000	1.285	0.586	-0.543	1.571	-1.000	0.438
150M	0.907	-0.150	1.571	-1.195	1.285	0.586	-0.543	1.571	-1.195	0.352
151Q	1.628	0.592	1.337	-1.000	1.175	0.579	0.057	1.628	-1.000	0.624
152Q	0.876	0.459	1.318	-0.814	1.093	0.109	0.398	1.318	-0.814	0.491
153G	1.103	0.005	1.309	-0.512	1.048	0.109	1.408	1.408	-0.512	0.639
154C	1.502	0.209	1.561	-0.324	1.276	0.111	1.683	1.683	-0.324	0.860
155Y	1.211	0.800	1.019	-0.239	0.811	0.086	2.142	2.142	-0.239	0.833
156G	1.192	1.207	1.141	-0.236	1.075	0.638	2.044	2.044	-0.236	1.009
157P	1.192	0.483	1.141	-0.206	1.075	0.638	2.044	2.044	-0.206	0.910
158C	1.236	0.029	1.356	-0.534	1.166	0.621	0.412	1.356	-0.534	0.612
159K	1.122	-0.007	0.982	-1.015	0.920	0.603	0.668	1.122	-1.015	0.468
160G	0.528	-1.043	0.870	-1.554	0.957	0.604	1.257	1.257	-1.554	0.231
161A	0.528	-1.095	0.627	-1.953	0.683	0.585	0.027	0.683	-1.953	-0.085
162V	-0.142	-0.737	0.758	-2.200	0.784	0.573	-0.161	0.784	-2.200	-0.161
163V	-0.009	0.215	0.636	-2.251	0.510	0.578	-0.252	0.636	-2.251	-0.082
164A	-0.237	0.802	0.889	-2.155	0.829	0.597	-0.032	0.889	-2.155	0.099
165L	0.041	1.429	1.038	-1.704	0.984	0.617	1.138	1.429	-1.704	0.506
166E	0.604	2.465	1.356	-0.952	1.148	0.635	0.590	2.465	-0.952	0.835
167P	1.198	1.565	1.468	-0.176	1.112	0.634	0.001	1.565	-0.176	0.829
168S	1.426	1.002	1.917	0.148	1.750	1.228	1.076	1.917	0.148	1.221
169T	1.502	0.147	1.860	-0.253	1.722	1.225	0.963	1.860	-0.253	1.024
170G	0.427	-0.548	1.449	-1.124	1.367	0.631	1.424	1.449	-1.124	0.518
171K	0.427	-1.272	1.206	-2.048	1.093	0.612	0.194	1.206	-2.048	0.030
172I	-0.566	-1.248	0.973	-2.624	0.948	0.597	0.469	0.973	-2.624	-0.207
173L	-1.128	-0.068	0.655	-2.739	0.784	0.579	1.017	1.017	-2.739	-0.129
174A	-1.078	0.495	0.814	-2.352	0.984	0.599	1.177	1.177	-2.352	0.091
175L	-1.027	1.351	0.515	-1.607	0.501	0.024	1.272	1.351	-1.607	0.147
176V	-0.389	1.149	0.898	-0.550	0.793	0.041	1.170	1.170	-0.550	0.445
177S	0.604	1.784	1.132	0.584	0.938	0.056	0.895	1.784	0.056	0.856
178S	0.351	1.287	1.384	1.288	1.175	0.075	2.237	2.237	0.075	1.114
179P	1.565	1.040	1.739	1.646	1.485	0.559	1.793	1.793	0.559	1.404
180S	1.932	0.477	2.103	1.603	1.768	0.576	1.424	2.103	0.477	1.412
181Y	1.963	-0.583	2.253	1.784	1.923	0.597	1.151	2.253	-0.583	1.298
182D	0.971	-0.176	2.019	1.849	1.777	0.582	1.427	2.019	-0.176	1.207
183P	0.256	0.141	1.692	1.873	1.513	0.569	1.642	1.873	0.141	1.098
184N	-0.022	-0.128	1.543	1.148	1.358	0.549	0.472	1.543	-0.128	0.703
185L	0.509	-0.128	1.440	0.360	1.276	0.549	0.299	1.440	-0.128	0.615
186L	0.010	0.435	1.328	-0.177	1.130	0.680	0.576	1.328	-0.177	0.569
187A	0.319	1.215	1.384	0.532	1.166	0.702	0.243	1.384	0.243	0.794
188S	0.010	1.119	1.328	1.704	1.130	0.680	0.576	1.704	0.010	0.935
189H	1.084	0.754	1.739	2.805	1.485	1.274	0.114	2.805	0.114	1.322
190N	1.432	0.664	1.702	2.703	1.467	1.270	0.268	2.703	0.268	1.358
191P	1.679	0.546	2.029	1.627	1.841	1.313	1.442	2.029	0.546	1.497
192E	1.401	0.187	1.879	0.121	1.686	1.293	0.272	1.879	0.121	0.977
193V	1.647	-0.891	2.047	-0.847	1.886	0.715	0.168	2.047	-0.891	0.675
194Q	1.337	-0.304	1.748	-1.303	1.576	0.675	-0.729	1.748	-1.303	0.429
195A	0.572	0.019	1.524	-1.366	1.321	0.681	-0.927	1.524	-1.366	0.261
196Q	0.459	-0.186	1.524	-1.372	1.330	0.124	-0.738	1.524	-1.372	0.163
197A	0.958	-0.050	2.075	-1.513	1.813	0.747	-1.327	2.075	-1.513	0.386
198W	-0.003	0.489	1.664	-1.717	1.449	0.710	-1.055	1.664	-1.717	0.220
199Q	0.225	1.601	1.655	-1.841	1.403	0.710	-0.045	1.655	-1.841	0.530
200R	0.477	1.469	1.599	-1.715	1.349	1.156	-0.217	1.599	-1.715	0.588
201L	0.787	0.656	1.898	-0.974	1.658	1.197	0.680	1.898	-0.974	0.843
202G	1.552	1.716	2.122	0.245	1.914	1.191	0.877	2.122	0.245	1.374
203D	1.306	1.447	1.795	1.358	1.540	1.148	-0.296	1.795	-0.296	1.186
204N	1.451	0.704	1.515	2.035	1.221	0.544	-0.135	2.035	-0.135	1.048
205P	2.166	0.586	1.842	1.859	1.485	0.557	-0.350	2.166	-0.350	1.163
206A	1.224	0.836	1.767	1.215	1.540	0.563	0.084	1.767	0.084	1.033
207S	0.920	1.650	1.692	0.606	1.376	0.094	0.134	1.692	0.094	0.925
208P	0.920	0.794	1.692	0.458	1.376	0.094	0.134	1.692	0.094	0.781
209L	1.053	0.111	1.879	0.466	1.576	0.700	-0.087	1.879	-0.087	0.814
210T	1.053	1.171	1.879	0.659	1.576	0.700	-0.087	1.879	-0.087	0.993
211N	0.136	1.255	1.589	0.264	1.403	0.681	0.075	1.589	0.075	0.772
212R	0.414	1.137	1.496	-0.248	1.285	0.682	0.015	1.496	-0.248	0.683
213A	1.489	-0.084	1.907	-0.950	1.640	1.276	-0.446	1.907	-0.950	0.690
214I	1.489	0.275	1.907	-1.094	1.640	1.276	-0.446	1.907	-1.094	0.721
215S	0.926	0.958	1.860	-1.101	1.567	1.255	-0.001	1.860	-1.101	0.781
216E	0.794	0.730	1.674	-0.614	1.367	0.650	0.220	1.674	-0.614	0.688
217T	0.794	1.010	1.917	-0.347	1.640	0.669	1.450	1.917	-0.347	1.019
218Y	1.660	1.010	2.047	-0.062	1.613	0.667	1.128	2.047	-0.062	1.152
219P	1.660	1.243	2.047	0.136	1.613	0.667	1.128	2.047	0.136	1.213
220P	1.495	1.716	1.917	0.391	1.403	0.087	1.195	1.917	0.087	1.172
221G	0.585	1.261	1.655	0.514	1.203	0.071	1.406	1.655	0.071	0.956
222S	1.065	0.309	1.851	0.417	1.604	0.647	1.139	1.851	0.309	1.005
223T	0.699	-0.056	1.487	0.047	1.321	0.629	1.508	1.508	-0.056	0.805
224F	0.060	-0.056	1.103	-0.747	1.030	0.612	1.609	1.609	-0.747	0.516
225K	0.029	0.119	1.309	-1.383	1.230	0.632	1.650	1.650	-1.383	0.512
226V	-0.054	-0.713	1.356	-1.838	1.230	0.632	1.531	1.531	-1.838	0.306
227I	-0.250	-0.617	1.160	-1.745	1.075	0.612	0.480	1.160	-1.745	0.102
228T	0.465	-0.496	1.225	-1.476	1.121	0.608	-0.781	1.225	-1.476	0.095
229T	0.237	-0.987	0.776	-1.294	0.483	0.013	-1.857	0.776	-1.857	-0.376
230A	-0.111	-1.478	0.814	-1.500	0.501	0.017	-2.010	0.814	-2.010	-0.538
231A	0.528	-0.851	0.954	-1.812	0.519	0.015	-3.342	0.954	-3.342	-0.570
232A	0.332	-0.851	0.758	-2.146	0.364	-0.005	-4.393	0.758	-4.393	-0.849
233L	0.364	-0.360	0.552	-2.263	0.164	-0.025	-4.434	0.552	-4.434	-0.857
234A	0.364	0.419	0.552	-2.210	0.164	-0.025	-4.434	0.552	-4.434	-0.739
235A	0.560	0.910	0.748	-1.986	0.319	-0.005	-3.383	0.910	-3.383	-0.405
236G	0.920	1.485	1.075	-1.792	0.683	0.595	-2.399	1.485	-2.399	0.081
237A	1.830	1.349	1.356	-1.457	0.829	0.609	-2.793	1.830	-2.793	0.246
238T	2.191	1.145	1.683	-1.307	1.194	1.209	-1.809	2.191	-1.809	0.615
239E	2.437	1.145	2.010	-1.125	1.567	1.251	-0.636	2.437	-1.125	0.950
240T	1.495	0.570	1.935	-1.195	1.622	1.257	-0.201	1.935	-1.195	0.783
241E	1.691	0.079	2.132	-1.137	1.777	1.277	0.850	2.132	-1.137	0.953
242Q	1.495	-0.138	1.935	-1.269	1.622	1.257	-0.201	1.935	-1.269	0.672
243L	1.135	-0.138	1.608	-1.261	1.257	0.657	-1.185	1.608	-1.261	0.296
244T	0.939	-0.258	1.655	-1.283	1.376	0.656	-1.006	1.655	-1.283	0.297

245A	0.775	-0.390	1.524	-1.094	1.166	0.077	-0.939	1.524	-1.094	0.160
246A	-0.111	-0.595	1.057	-1.034	0.774	0.036	-0.780	1.057	-1.034	-0.093
247P	0.604	-0.236	1.384	-0.777	1.039	0.049	-0.995	1.384	-0.995	0.152
248T	-0.307	0.033	1.103	-0.894	0.893	0.035	-0.601	1.103	-0.894	0.037
249I	-0.307	0.397	1.346	-0.881	1.166	0.054	0.629	1.346	-0.881	0.344
250P	-0.079	1.213	1.337	-0.942	1.121	0.054	1.639	1.639	-0.942	0.620
251L	0.199	0.854	1.244	-0.670	1.002	0.055	1.579	1.579	-0.670	0.609
252P	0.199	1.549	1.244	-0.356	1.002	0.055	1.579	1.579	-0.356	0.753
253G	0.838	0.986	1.384	0.057	1.020	0.053	0.247	1.384	0.053	0.655
254S	1.084	0.934	1.468	0.090	1.121	0.077	0.191	1.468	0.077	0.709
255T	1.084	0.688	1.468	-0.118	1.121	0.077	0.191	1.468	-0.118	0.644
256A	1.445	-0.210	1.552	-0.704	1.212	0.657	-0.055	1.552	-0.704	0.557
257Q	1.527	0.417	1.860	-0.786	1.567	0.698	-0.169	1.860	-0.786	0.731
258L	0.996	0.554	1.963	-0.689	1.649	0.697	0.003	1.963	-0.689	0.739
259E	1.028	0.758	1.758	-0.135	1.449	0.677	-0.037	1.758	-0.135	0.785
260N	1.255	0.542	1.748	0.233	1.403	0.677	0.973	1.748	0.233	0.976
261Y	1.009	-0.032	1.421	0.017	1.030	0.635	-0.200	1.421	-0.200	0.554
262G	1.723	1.002	1.748	-0.484	1.294	0.648	-0.415	1.748	-0.484	0.788
263G	1.318	0.914	1.206	-0.720	0.838	0.067	0.234	1.318	-0.720	0.551
264A	1.236	0.862	0.898	-0.776	0.483	0.026	0.347	1.236	-0.776	0.439
265P	1.989	1.221	0.917	-0.154	0.565	0.496	0.006	1.989	-0.154	0.720
266C	2.121	1.353	1.253	0.191	0.975	1.095	-0.021	2.121	-0.021	0.995
267G	1.894	1.221	1.505	0.418	1.294	1.114	0.199	1.894	0.199	1.092
268D	2.090	1.449	1.702	0.368	1.449	1.134	1.250	2.090	0.368	1.349
269E	1.723	0.706	1.337	0.147	1.166	1.117	1.619	1.723	0.147	1.116
270P	2.045	0.944	1.702	0.011	1.412	1.119	1.156	2.045	0.011	1.198
271T	1.103	1.161	1.627	-0.102	1.467	1.124	1.591	1.627	-0.102	1.139
272V	0.737	0.670	1.786	-0.406	1.622	1.260	1.599	1.786	-0.406	1.038
273S	0.737	0.592	1.786	-0.765	1.622	1.260	1.599	1.786	-0.765	0.976
274L	0.737	-0.360	1.543	-1.359	1.349	1.241	0.369	1.543	-1.359	0.503
275R	-0.174	0.676	1.281	-1.824	1.148	1.225	0.579	1.281	-1.824	0.416
276E	-0.174	0.718	1.281	-1.938	1.148	1.225	0.579	1.281	-1.938	0.406
277A	-0.224	0.179	1.580	-1.936	1.631	1.800	0.484	1.800	-1.936	0.502
278F	0.768	0.788	1.814	-1.541	1.777	1.815	0.209	1.815	-1.541	0.804
279V	0.591	1.453	1.169	-1.085	1.212	1.208	0.832	1.453	-1.085	0.769
280K	0.541	1.549	1.141	-0.144	1.157	0.649	0.746	1.549	-0.144	0.806
281S	0.737	0.544	1.337	0.917	1.312	0.669	1.797	1.797	0.544	1.044
282C	1.451	-0.408	1.403	1.726	1.358	0.664	0.535	1.726	-0.408	0.961
283N	1.103	0.047	1.459	1.840	1.321	0.667	0.198	1.840	0.047	0.948
284T	0.509	-0.767	0.889	1.169	0.674	0.074	0.721	1.169	-0.767	0.467
285A	0.477	-0.631	1.066	0.130	0.893	0.096	0.725	1.066	-0.631	0.394
286F	-0.193	-0.955	1.197	-0.673	0.993	0.084	0.538	1.197	-0.955	0.141
287V	-0.275	0.033	0.889	-1.199	0.638	0.043	0.651	0.889	-1.199	0.111
288Q	-1.109	0.620	0.552	-1.551	0.465	0.025	0.932	0.932	-1.551	-0.010
289L	-0.977	0.756	0.982	-1.877	0.938	0.650	1.941	1.941	-1.877	0.345
290G	-0.066	0.960	1.244	-2.204	1.139	0.666	1.731	1.731	-2.204	0.496
291I	0.528	0.872	1.356	-2.246	1.103	0.664	1.142	1.356	-2.246	0.488
292R	0.281	1.197	1.029	-2.100	0.729	0.622	-0.031	1.197	-2.100	0.247
293T	1.495	0.179	1.384	-1.507	1.039	1.105	-0.475	1.495	-1.507	0.460
294G	1.268	0.501	1.393	-1.056	1.084	1.105	-1.486	1.393	-1.486	0.401
295A	1.192	0.730	1.449	-0.685	1.112	1.109	-1.372	1.449	-1.372	0.505
296D	1.192	0.616	1.449	-0.742	1.112	1.109	-1.372	1.449	-1.372	0.480
297A	1.274	0.077	1.403	-0.923	1.112	1.109	-1.253	1.403	-1.253	0.400
298L	0.648	0.890	1.403	-1.291	1.203	1.126	-1.309	1.403	-1.309	0.381
299R	0.648	1.095	1.403	-1.343	1.203	1.126	-1.309	1.403	-1.343	0.403
300S	0.281	0.107	1.561	-1.598	1.358	1.262	-1.301	1.561	-1.598	0.239
301M	0.281	-0.122	1.561	-1.759	1.358	1.262	-1.301	1.561	-1.759	0.183
302A	0.281	-0.212	1.580	-2.003	1.303	1.261	-1.484	1.580	-2.003	0.104
303R	0.376	0.327	1.141	-1.992	0.784	0.636	-1.483	1.141	-1.992	-0.030
304A	-0.616	0.369	0.907	-1.925	0.638	0.621	-1.208	0.907	-1.925	-0.173
305F	0.281	0.728	1.188	-1.376	0.911	1.093	-1.162	1.188	-1.376	0.238
306G	0.560	1.261	1.337	-0.790	1.066	1.113	0.008	1.337	-0.790	0.651
307L	0.427	1.447	1.150	0.008	0.866	0.507	0.229	1.447	0.008	0.662
308D	0.427	2.010	1.393	0.828	1.139	0.526	1.459	2.010	0.427	1.112
309S	1.274	1.962	1.889	1.145	1.658	1.147	1.207	1.962	1.145	1.469
310P	1.046	1.465	2.141	1.019	1.977	1.166	1.427	2.141	1.019	1.463
311P	1.957	0.902	2.421	0.533	2.123	1.180	1.032	2.421	0.533	1.450
312R	1.457	1.034	2.393	0.116	2.078	0.710	1.261	2.393	0.116	1.293
313P	0.465	0.125	2.160	-0.116	1.932	0.696	1.536	2.160	-0.116	0.971
314T	0.711	-0.234	2.244	-0.100	2.032	0.719	1.480	2.244	-0.234	0.979
315P	0.345	-0.150	1.879	-0.394	1.750	0.702	1.849	1.879	-0.394	0.854
316L	0.212	0.347	1.449	-0.724	1.276	0.077	0.839	1.449	-0.724	0.497
317Q	0.572	1.042	1.533	-1.285	1.367	0.658	0.593	1.533	-1.285	0.640
318V	0.655	0.455	1.487	-1.413	1.367	0.658	0.712	1.487	-1.413	0.560
319A	0.850	1.179	1.440	-1.311	1.248	0.659	0.533	1.440	-1.311	0.657
320E	1.198	1.537	1.403	-0.844	1.230	0.655	0.687	1.537	-0.844	0.838
321S	1.179	0.638	1.066	-0.545	0.811	0.613	0.524	1.179	-0.545	0.612
322T	1.546	0.141	1.431	-0.387	1.093	0.630	0.155	1.546	-0.387	0.658
323V	0.907	0.189	1.290	-0.702	1.075	0.632	1.487	1.487	-0.702	0.697
324G	0.547	1.141	1.206	-0.842	0.984	0.051	1.733	1.733	-0.842	0.689
325P	0.768	0.513	1.328	-0.799	1.148	0.520	1.564	1.564	-0.799	0.720
326I	0.850	0.155	1.281	-0.222	1.148	0.520	1.683	1.683	-0.222	0.774
327P	1.217	0.275	1.403	0.425	1.157	0.519	0.084	1.403	0.084	0.726
328D	0.990	0.544	1.412	0.824	1.203	0.519	-0.926	1.412	-0.926	0.652
329S	0.275	-0.110	1.085	0.419	0.938	0.505	-0.711	1.085	-0.711	0.343
330A	1.141	-0.474	1.216	-0.350	0.911	0.503	-1.032	1.216	-1.032	0.273
331A	0.743	0.381	0.963	-1.407	0.683	0.501	-1.307	0.963	-1.407	0.080
332L	0.440	0.057	0.889	-1.964	0.519	0.032	-1.258	0.889	-1.964	-0.184
333G	0.440	0.888	0.889	-1.905	0.519	0.032	-1.258	0.889	-1.905	-0.056
334M	-0.199	0.752	0.748	-1.492	0.501	0.034	0.074	0.752	-1.492	0.060
335T	0.029	1.698	0.739	-1.034	0.455	0.034	1.084	1.698	-1.034	0.429
336S	0.990	1.746	1.150	-0.825	0.820	0.071	0.813	1.746	-0.825	0.681
337I	0.990	0.794	1.608	-1.028	1.504	0.666	0.877	1.608	-1.028	0.773
338G	1.887	1.119	1.889	-1.009	1.777	1.138	0.924	1.889	-1.009	1.103
339Q	1.325	0.287	1.571	-0.957	1.613	1.119	1.472	1.613	-0.957	0.919
340K	1.046	0.287	1.421	-0.768	1.458	1.099	0.302	1.458	-0.768	0.692
341D	0.971	-0.186	1.477	-0.726	1.485	1.103	0.415	1.485	-0.726	0.648
342V	0.939	-0.929	1.683	-0.924	1.686	1.123	0.456	1.686	-0.929	0.576
343A	0.692	-0.833	1.599	-1.186	1.586	1.099	0.512	1.599	-1.186	0.496
344L	-0.250	-0.224	1.066	-1.127	0.957	0.510	0.882	1.066	-1.127	0.259
345T	-0.749	-0.019	0.795	-1.077	0.638	0.021	-0.119	0.795	-1.077	-0.073
346P	-0.073	0.065	1.216	-0.574	0.957	0.060	-0.821	1.216	-0.821	0.118
347L	-0.073	-0.619	1.216	-0.313	0.957	0.060	-0.821	1.216	-0.821	0.058
348A	1.002	-0.414	1.627	0.023	1.312	0.654	-1.282	1.627	-1.282	0.417
349N	0.168	-0.414	1.290	-0.108	1.139	0.636	-1.001	1.290	-1.001	0.244

350A	0.168	-0.532	1.047	-0.670	0.866	0.617	-2.231	1.047	-2.231	-0.105
351E	0.882	-0.857	1.132	-1.552	0.856	0.612	-3.676	1.132	-3.676	-0.372
352I	1.078	-1.432	1.328	-2.030	1.011	0.632	-2.625	1.328	-2.625	-0.291
353A	0.130	-0.498	0.889	-2.355	0.683	0.593	-2.191	0.889	-2.355	-0.393
354A	0.130	0.129	0.889	-2.088	0.683	0.593	-2.191	0.889	-2.191	-0.265
355T	0.079	0.756	0.860	-1.559	0.629	0.034	-2.277	0.860	-2.277	-0.211
356I	0.945	-0.060	0.991	-1.006	0.601	0.032	-2.599	0.991	-2.599	-0.156
357A	1.173	0.756	0.982	-0.342	0.556	0.032	-1.588	1.173	-1.588	0.224
358N	0.534	0.642	0.842	-0.077	0.537	0.034	-0.257	0.842	-0.257	0.322
359G	0.534	0.846	0.842	-0.291	0.537	0.034	-0.257	0.846	-0.291	0.321
360G	0.775	0.578	0.973	-1.025	0.601	0.049	-0.634	0.973	-1.025	0.188
361I	0.907	-0.456	1.403	-1.645	1.075	0.674	0.376	1.403	-1.645	0.333
362T	0.598	-0.336	1.346	-2.078	1.039	0.652	0.709	1.346	-2.078	0.276
363M	0.117	-0.923	1.608	-1.923	1.321	0.672	1.040	1.608	-1.923	0.273
364R	-0.825	-0.182	1.533	-1.698	1.376	0.677	1.475	1.533	-1.698	0.337
365P	-0.553	-0.140	1.552	-1.432	1.385	0.677	1.742	1.742	-1.432	0.462
366Y	-0.521	-0.703	1.346	-1.479	1.185	0.657	1.702	1.702	-1.479	0.312
367L	0.155	0.536	1.505	-1.385	1.294	0.660	1.917	1.917	-1.385	0.669
368V	-0.692	1.367	0.991	-1.301	0.829	0.041	2.353	2.353	-1.301	0.512
369G	-0.465	1.822	1.197	-1.132	1.194	0.616	2.198	2.198	-1.132	0.776
370S	0.016	1.734	0.935	-1.067	0.911	0.597	1.866	1.866	-1.067	0.713
371L	0.730	0.674	1.262	-1.097	1.175	0.610	1.651	1.651	-1.097	0.715
372K	1.597	0.878	1.655	-0.991	1.504	1.098	1.053	1.655	-0.991	0.970
373G	0.655	0.656	1.580	-0.637	1.558	1.103	1.488	1.580	-0.637	0.915
374P	0.376	-0.296	1.431	-0.276	1.403	1.083	0.318	1.431	-0.296	0.577
375D	1.401	0.201	1.814	0.244	1.704	1.118	-0.230	1.814	-0.230	0.893
376L	0.534	0.153	1.225	0.231	1.048	0.526	0.027	1.225	0.027	0.535
377A	0.585	0.848	1.384	0.426	1.248	0.546	0.186	1.384	0.186	0.746
378N	0.781	0.752	1.337	0.513	1.130	0.547	0.007	1.337	0.007	0.724
379I	0.477	0.770	1.262	0.620	0.966	0.078	0.057	1.262	0.057	0.604
380S	0.825	0.688	1.225	0.473	0.948	0.074	0.210	1.225	0.074	0.635
381T	1.053	0.323	1.216	0.212	0.902	0.074	1.221	1.221	0.074	0.714
382T	0.490	0.323	1.169	-0.481	0.829	0.052	1.666	1.666	-0.481	0.578
383V	1.375	0.646	1.636	-0.764	1.221	0.093	1.508	1.636	-0.764	0.816
384G	1.344	1.555	1.814	-1.031	1.440	0.115	1.511	1.814	-1.031	0.964
385Y	1.280	0.928	2.047	-1.025	1.759	0.720	1.469	2.047	-1.025	1.026
386Q	1.217	1.239	2.281	-1.088	2.078	1.325	1.428	2.281	-1.088	1.211
387Q	1.584	1.603	2.403	-1.344	2.087	1.323	-0.171	2.403	-1.344	1.069
388R	0.990	1.471	2.290	-1.799	2.123	1.325	0.417	2.290	-1.799	0.974
389R	1.521	1.149	2.188	-1.917	2.041	1.326	0.245	2.188	-1.917	0.936
390A	1.274	0.239	2.103	-1.579	1.941	1.302	0.302	2.103	-1.579	0.798
391V	1.274	0.239	2.103	-0.821	1.941	1.302	0.302	2.103	-0.821	0.906
392S	0.775	0.335	1.552	-0.146	1.458	0.679	0.891	1.552	-0.146	0.792
393P	0.642	0.311	1.122	0.027	0.984	0.054	-0.118	1.122	-0.118	0.432
394Q	0.642	-0.252	1.122	-0.438	0.984	0.054	-0.118	1.122	-0.438	0.285
395V	1.236	-0.252	1.692	-1.141	1.631	0.647	-0.642	1.692	-1.141	0.453
396A	0.244	0.419	1.459	-1.864	1.485	0.633	-0.366	1.485	-1.864	0.287
397A	0.440	0.215	1.412	-2.122	1.367	0.634	-0.546	1.412	-2.122	0.200
398K	0.553	0.101	1.412	-2.147	1.358	1.191	-0.735	1.412	-2.147	0.247
399L	0.206	-0.827	1.449	-1.971	1.376	1.195	-0.889	1.449	-1.971	0.077
400T	-0.193	0.005	1.440	-1.964	1.422	1.212	0.066	1.440	-1.964	0.284
401E	-0.559	-0.486	1.318	-2.118	1.412	1.214	1.665	1.665	-2.118	0.349
402L	-0.559	-0.486	0.860	-2.382	0.729	0.619	1.600	1.600	-2.382	0.054
403M	0.155	0.550	0.945	-2.495	0.720	0.613	0.155	0.945	-2.495	0.092
404V	0.319	0.568	1.075	-2.486	0.929	1.193	0.088	1.193	-2.486	0.241
405G	0.187	0.664	1.197	-2.334	1.203	1.188	0.179	1.203	-2.334	0.326
406A	0.534	0.527	1.160	-2.285	1.185	1.184	0.333	1.185	-2.285	0.377
407E	0.933	1.018	1.169	-2.311	1.139	1.167	-0.622	1.169	-2.311	0.356
408K	1.546	1.275	1.617	-2.248	1.522	1.208	-1.047	1.617	-2.248	0.553
409V	1.565	1.070	1.954	-1.990	1.941	1.250	-0.884	1.954	-1.990	0.701
410A	1.793	1.167	2.403	-1.635	2.579	1.845	0.191	2.579	-1.635	1.192
411Q	1.660	0.842	2.066	-1.334	2.169	1.245	0.217	2.169	-1.334	0.981
412Q	1.432	0.710	1.617	-1.312	1.531	0.651	-0.858	1.617	-1.312	0.539
413K	1.160	0.846	1.599	-1.617	1.522	0.651	-1.125	1.599	-1.617	0.434
414G	1.160	-0.082	1.842	-1.825	1.795	0.670	0.105	1.842	-1.825	0.524
415A	1.141	-0.218	1.505	-1.940	1.376	0.628	-0.058	1.505	-1.940	0.348
416I	0.528	-0.542	1.057	-1.799	0.993	0.587	0.368	1.057	-1.799	0.170
417P	0.547	-0.218	0.935	-1.484	0.729	0.035	0.466	0.935	-1.484	0.144
418G	-0.319	0.279	0.804	-1.420	0.756	0.036	0.787	0.804	-1.420	0.132
419V	-0.319	0.483	0.804	-1.546	0.756	0.036	0.787	0.804	-1.546	0.143
420Q	0.598	1.070	1.094	-1.529	0.929	0.055	0.625	1.094	-1.529	0.406
421I	0.825	1.207	1.300	-1.575	1.294	0.630	0.471	1.300	-1.575	0.593
422A	0.794	2.022	1.505	-1.209	1.494	0.650	0.511	2.022	-1.209	0.824
423S	1.388	2.022	1.617	-0.898	1.458	0.649	-0.077	2.022	-0.898	0.880
424K	1.337	1.742	1.487	-0.698	1.239	0.626	-0.200	1.742	-0.698	0.790
425T	1.976	1.000	1.627	-0.725	1.257	0.624	-1.532	1.976	-1.532	0.604
426G	2.336	1.137	1.954	-0.855	1.622	1.224	-0.548	2.336	-0.855	0.981
427T	2.058	1.000	1.963	-0.834	1.640	1.824	-0.440	2.058	-0.834	1.030
428A	2.058	1.048	1.505	-0.583	0.957	1.229	-0.505	2.058	-0.583	0.816
429E	2.058	1.407	1.505	-0.138	0.957	1.229	-0.505	2.058	-0.505	0.930
430H	2.330	1.646	1.786	0.444	1.321	1.718	-0.514	2.330	-0.514	1.247
431G	2.134	1.646	1.832	0.859	1.440	1.717	-0.335	2.134	-0.335	1.327
432T	2.267	1.509	2.262	0.928	1.914	2.342	0.674	2.342	0.674	1.699
433D	1.906	1.377	2.094	1.146	1.722	2.362	0.968	2.362	0.968	1.654
434P	2.102	1.197	2.132	0.968	1.704	1.762	0.741	2.132	0.741	1.515
435R	1.875	0.928	2.384	1.163	2.023	1.781	0.961	2.384	0.928	1.588
436H	1.679	0.115	2.431	1.261	2.142	1.780	1.140	2.431	0.115	1.507
437T	1.179	-0.478	2.318	1.559	1.996	1.911	1.416	2.318	-0.478	1.414
438P	1.179	-1.376	2.075	1.579	1.722	1.892	0.186	2.075	-1.376	1.037
439P	0.281	-2.059	1.664	1.556	1.267	1.293	0.209	1.664	-2.059	0.602
440H	0.029	-2.418	1.758	0.875	1.330	0.692	0.274	1.758	-2.418	0.363
441A	-0.806	-2.682	1.421	-0.056	1.157	0.674	0.555	1.421	-2.682	0.038
442W	-0.806	-2.682	1.178	-1.136	0.884	0.655	-0.675	1.178	-2.682	-0.369
443Y	-1.520	-1.821	0.870	-1.787	0.565	0.640	-0.644	0.870	-1.821	-0.528
444I	-1.520	-1.414	0.711	-2.116	0.392	0.020	-1.921	0.711	-2.116	-0.836
445A	-1.520	-0.599	0.954	-1.765	0.665	0.039	-0.691	0.954	-1.765	-0.417
446F	-0.755	-0.599	0.935	-1.388	0.647	0.014	-1.724	0.935	-1.724	-0.410
447A	-0.256	-0.066	1.010	-1.017	0.784	0.037	-1.892	1.010	-1.892	-0.200
448P	0.383	0.766	1.150	-0.878	0.802	0.035	-3.224	1.150	-3.224	-0.138
449A	0.383	0.311	1.393	-0.772	1.075	0.054	-1.994	1.393	-1.994	0.064
450Q	1.325	0.311	1.907	-0.929	1.759	0.645	-2.180	1.907	-2.180	0.405
451A	0.958	-0.276	1.786	-0.968	1.750	0.646	-0.581	1.786	-0.968	0.473
452P	0.958	-0.276	1.543	-1.276	1.476	0.627	-1.812	1.543	-1.812	0.177
453K	0.591	-0.731	1.421	-1.548	1.467	0.629	-0.213	1.467	-1.548	0.231
454V	0.345	-1.767	1.094	-1.934	1.093	0.587	-1.386	1.094	-1.934	-0.281

455A	-0.022	-1.767	0.973	-2.104	1.084	0.588	0.213	1.084	-2.104	-0.148
456V	-0.736	-1.192	0.646	-2.271	0.820	0.575	0.428	0.820	-2.271	-0.247
457A	-1.331	-0.486	0.075	-2.273	0.173	-0.018	0.951	0.951	-2.273	-0.415
458V	-0.604	0.141	0.524	-2.326	0.547	0.580	0.336	0.580	-2.326	-0.115
459L	-0.294	0.237	0.823	-1.888	0.856	0.620	1.234	1.234	-1.888	0.227
460V	0.300	0.980	0.935	-1.292	0.820	0.619	0.645	0.980	-1.292	0.430
461E	0.300	1.890	0.935	-0.461	0.820	0.619	0.645	1.890	-0.461	0.678
462N	1.167	1.111	1.328	0.225	1.148	1.106	0.047	1.328	0.047	0.876
463G	2.014	1.357	1.842	0.336	1.613	1.725	-0.388	2.014	-0.388	1.214
464A	1.666	0.730	1.879	-0.007	1.631	1.729	-0.542	1.879	-0.542	1.012
465D	1.584	1.221	1.702	-0.260	1.422	1.150	-0.356	1.702	-0.356	0.923
466R	1.274	1.309	1.403	-0.700	1.112	1.109	-1.253	1.403	-1.253	0.608
467L	1.242	1.123	1.608	-0.649	1.312	1.129	-1.213	1.608	-1.213	0.650
468S	1.470	1.327	1.599	-0.579	1.267	1.129	-0.202	1.599	-0.579	0.859
469A	1.198	0.267	1.318	-0.668	0.902	0.640	-0.193	1.318	-0.668	0.495
470T	1.065	0.267	0.889	-0.852	0.428	0.015	-1.202	1.065	-1.202	0.087
471G	1.065	-0.224	0.889	-1.182	0.428	0.015	-1.202	1.065	-1.202	-0.030
472G	0.787	-0.492	0.739	-1.691	0.273	-0.005	-2.372	0.787	-2.372	-0.394
473A	0.787	-1.444	0.739	-1.960	0.273	-0.005	-2.372	0.787	-2.372	-0.569
474L	0.591	-0.817	0.786	-2.016	0.392	-0.006	-2.193	0.786	-2.193	-0.466
475A	-0.275	0.201	0.655	-1.945	0.419	-0.004	-1.872	0.655	-1.945	-0.403
476A	-0.275	0.201	0.655	-1.726	0.419	-0.004	-1.872	0.655	-1.872	-0.372
477P	-0.142	0.105	1.085	-1.739	0.893	0.621	-0.862	1.085	-1.739	-0.006
478I	0.572	-0.578	1.169	-1.877	0.884	0.615	-2.307	1.169	-2.307	-0.218
479G	0.206	0.321	1.047	-2.163	0.875	0.617	-0.709	1.047	-2.163	0.028
480R	-0.433	-0.306	0.907	-2.372	0.856	0.619	0.623	0.907	-2.372	-0.015
481A	-0.073	-1.119	0.991	-2.595	0.948	1.199	0.377	1.199	-2.595	-0.039
482V	0.566	-1.324	1.132	-2.637	0.966	1.197	-0.955	1.197	-2.637	-0.151
483I	0.338	-0.737	1.141	-2.692	1.011	1.197	-1.965	1.197	-2.692	-0.244
484E	-0.509	0.215	0.627	-2.623	0.547	0.578	-1.529	0.627	-2.623	-0.385
485A	-0.262	0.215	0.954	-2.383	0.920	0.621	-0.356	0.954	-2.383	-0.042
486A	0.332	0.574	1.066	-2.122	0.884	0.619	-0.944	1.066	-2.122	0.058
487L	1.331	0.828	1.533	-1.827	1.267	1.217	-1.292	1.533	-1.827	0.437
488Q	0.971	1.287	1.449	-1.518	1.175	0.636	-1.046	1.449	-1.518	0.422
489G	0.838	1.050	0.991	-1.236	1.494	0.696	-1.046	1.494	-1.236	0.398
490E	0.705	0.678	0.533	-0.909	1.813	0.756	-1.046	1.813	-1.046	0.362
491P	1.287	0.357	0.160	-0.575	2.123	0.811	-2.491	2.123	-2.491	0.239

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]MNASLRRISVTVMALIVLLLLNATMTQVFTADGLRADPRNQRVLLDEYSRQRGQITAGGQLLAYSVATDGRFRFLRVYPNPEVYAPVTGFYSLRYSSTALERAEDPILNGSDRRLFGRRLADFFTGRDPRGGN\
Hydrophilicity	[1]MNASLRRISVTVMALIVLLLLNATMTQVFTADGLRADPRNQRVLLDEYSRQRGQITAGGQLLAYSVATDGRFRFLRVYPNPEVYAPVTGFYSLRYSSTALERAEDPILNGSDRRLFGRRLADFFTGRDPRGGN\
Flexibility	[1]MNASLRRISVTVMALIVLLLLNATMTQVFTADGLRADPRNQRVLLDEYSRQRGQITAGGQLLAYSVATDGRFRFLRVYPNPEVYAPVTGFYSLRYSSTALERAEDPILNGSDRRLFGRRLADFFTGRDPRGGN\
Accessibility	[1]MNASLRRISVTVMALIVLLLLNATMTQVFTADGLRADPRNQRVLLDEYSRQRGQITAGGQLLAYSVATDGRFRFLRVYPNPEVYAPVTGFYSLRYSSTALERAEDPILNGSDRRLFGRRLADFFTGRDPRGGN\
Turns	[1]MNASLRRISVTVMALIVLLLLNATMTQVFTADGLRADPRNQRVLLDEYSRQRGQITAGGQLLAYSVATDGRFRFLRVYPNPEVYAPVTGFYSLRYSSTALERAEDPILNGSDRRLFGRRLADFFTGRDPRGGN\
Exposed Surface	[1]MNASLRRISVTVMALIVLLLLNATMTQVFTADGLRADPRNQRVLLDEYSRQRGQITAGGQLLAYSVATDGRFRFLRVYPNPEVYAPVTGFYSLRYSSTALERAEDPILNGSDRRLFGRRLADFFTGRDPRGGN\
Polarity	[1]MNASLRRISVTVMALIVLLLLNATMTQVFTADGLRADPRNQRVLLDEYSRQRGQITAGGQLLAYSVATDGRFRFLRVYPNPEVYAPVTGFYSLRYSSTALERAEDPILNGSDRRLFGRRLADFFTGRDPRGGN\
Antigenic Propensity	[1]MNASLRRISVTVMALIVLLLLNATMTQVFTADGLRADPRNQRVLLDEYSRQRGQITAGGQLLAYSVATDGRFRFLRVYPNPEVYAPVTGFYSLRYSSTALERAEDPILNGSDRRLFGRRLADFFTGRDPRGGN\

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