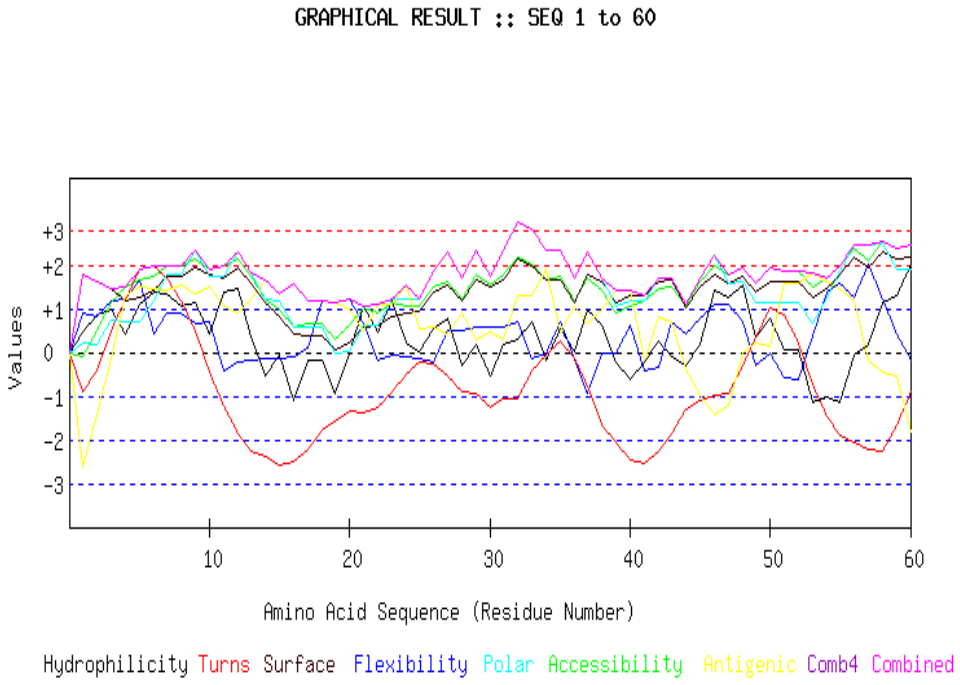
BcePred Prediction Server

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

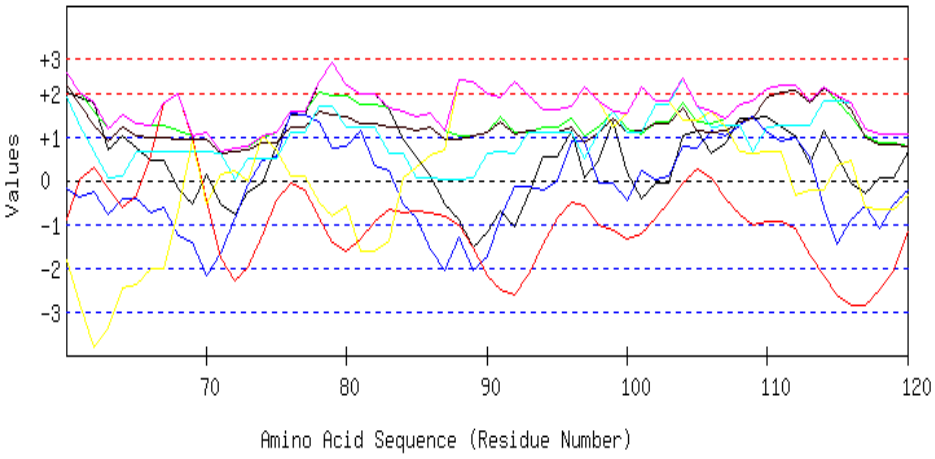
seqname=
Seq=MTTPSHLSDRYELGEILGFGGMSEVHLARDLRLHRDVAVKVLRADLARDPSFYLRFRREA
QNAAALNHPAIVAVYDTGEAETPAGPLPYIVMEYVDGVTLRDIVHTEGPMTPKRAIEVIADACQALNFSHQNGIIH
RDVKPANIMISATNAVKVMDFGIARAIADSGNSVTQTAAVIGTAQYLSPEQARGDSVDARSDVYSLGCVLYEVLTG
EPPFTGDSPVSVAYQHVREDPIPPSARHEGLSADLDAVVLKALAKNPENRYQTAAEMRADLVRVHNGEPPEAPKV
LTDAERTSLLSSAAGNLSGPRTDPLPRQDLDDTDRDRSIGSVGRWVAVVAVLAVLTVVVTIAINTFGGITRDVQVPD
VRGQSSADAIATLQNRGFKIRTLQKPDSTIPPDHVIGTDPAANTSVSAGDEITVNVSTGPEQREIPDVSTLTYAEAVK
KLTAAGFGRFKQANSPSTPELVGKVIGTNPPANQTSAITNVVIIIVGSGPATKDIPDVAGQTVDVAQKNLNVYGFTK
FSQASVDSPRPAGEVTGTNPPAGTTVPVDSVIELQVSKGNQFVMPDLSGMFWVDAEPRLRALGWTGMLDKGAD
VDAGGSQHNRVVYQNPPAGTGVNRDGIITLRFGQ

Length=626

GRAPHICAL **RESULT**

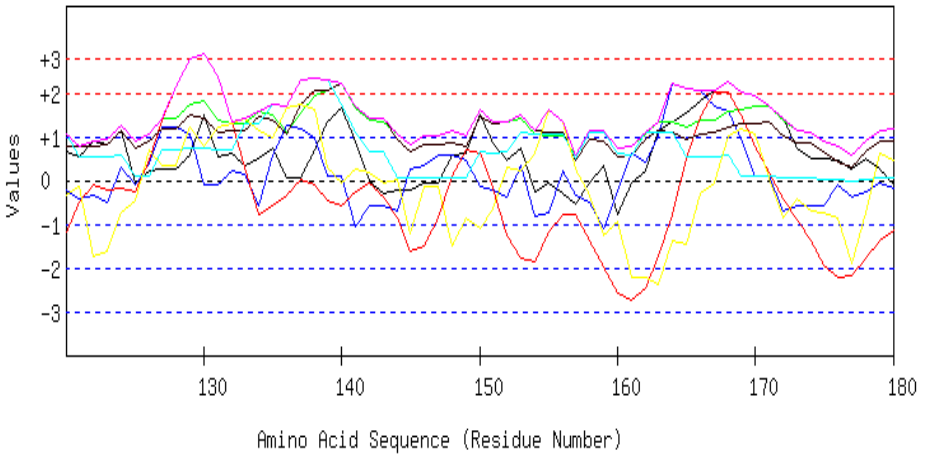


GRAPHICAL RESULT :: SEQ 61 to 120



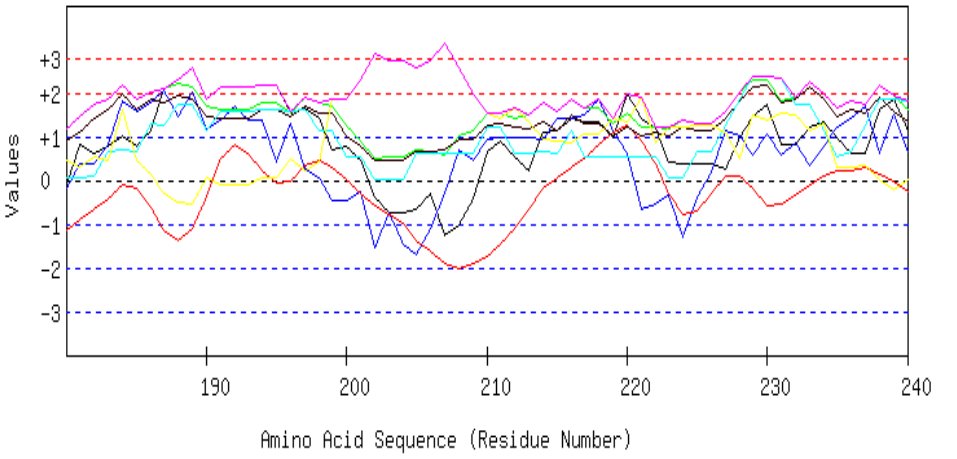
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 121 to 180



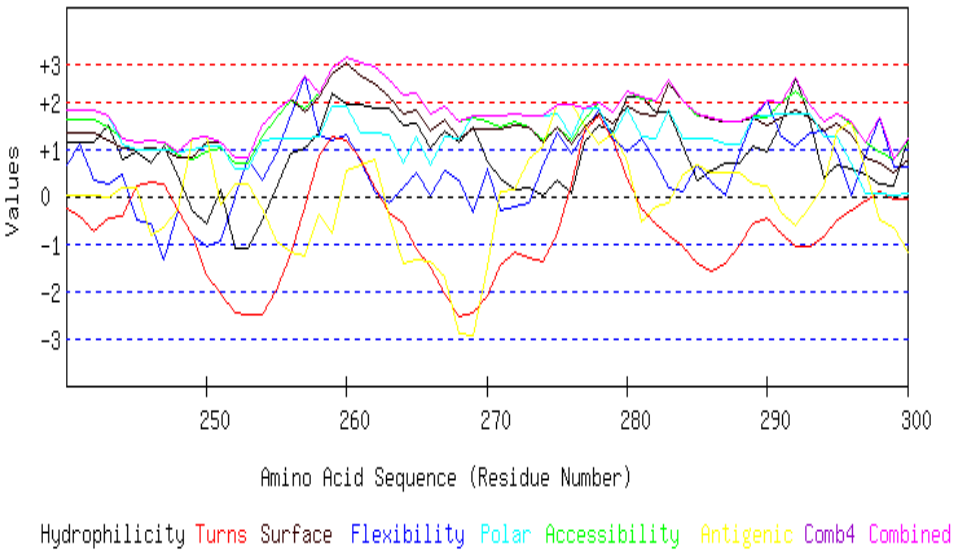
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 181 to 240



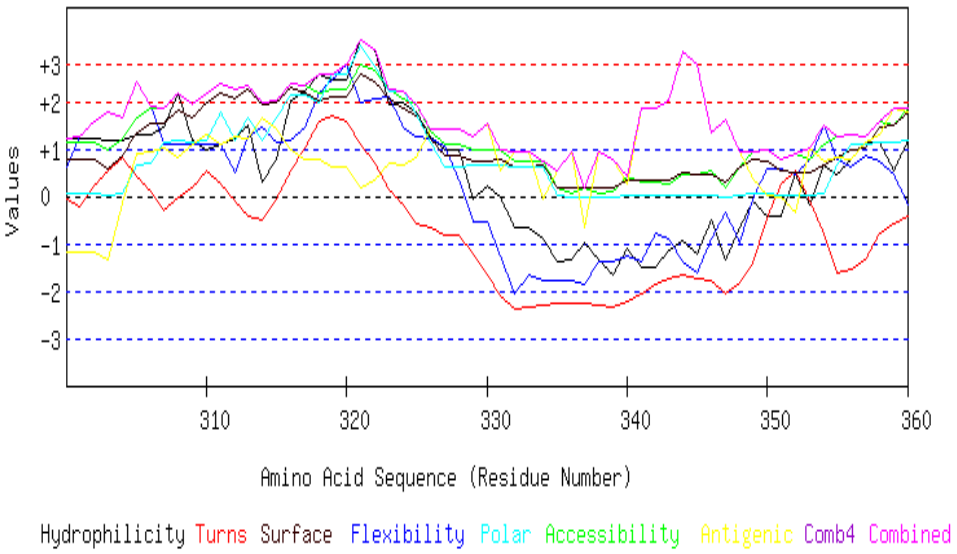
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 241 to 300



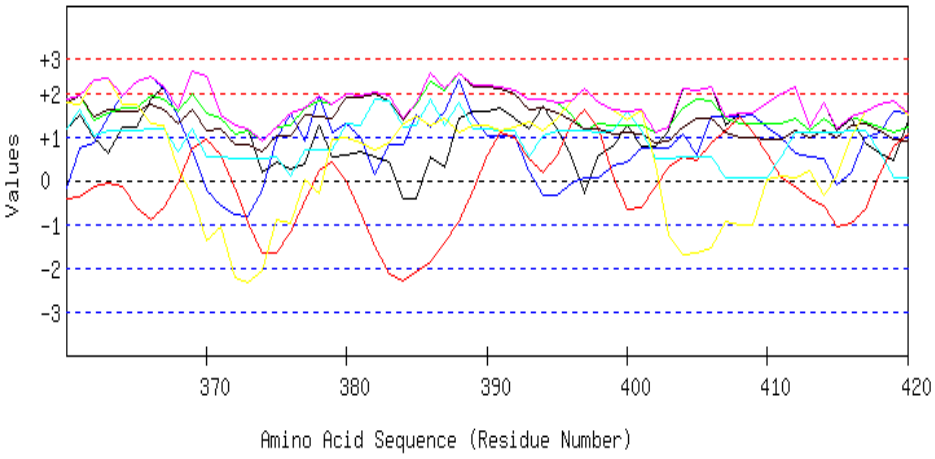
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 301 to 360



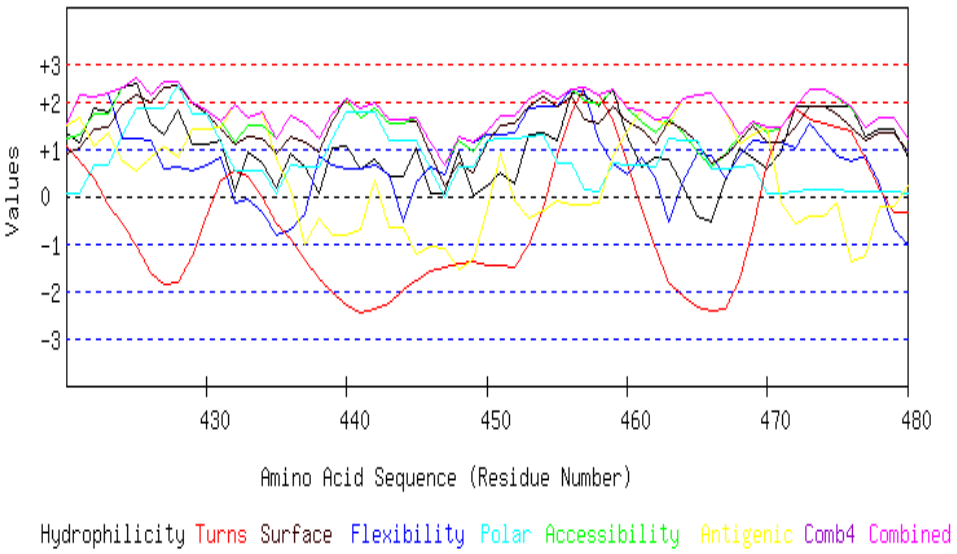
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 361 to 420

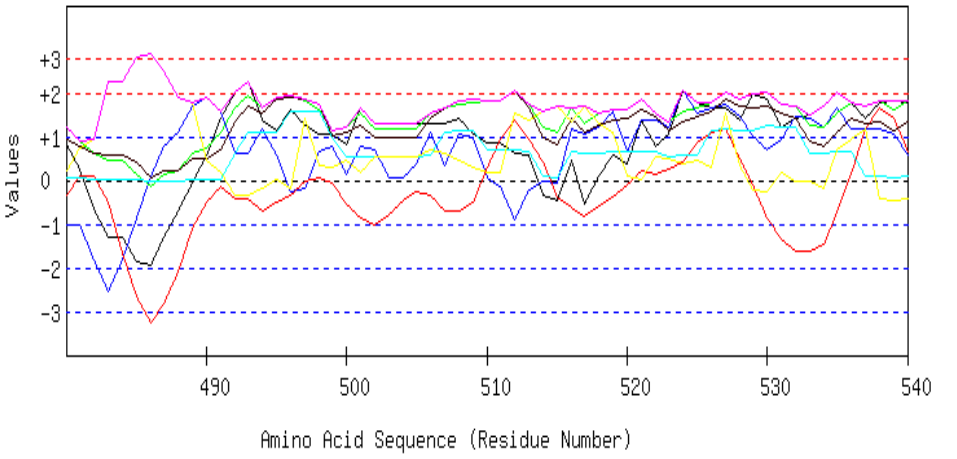


Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 421 to 480

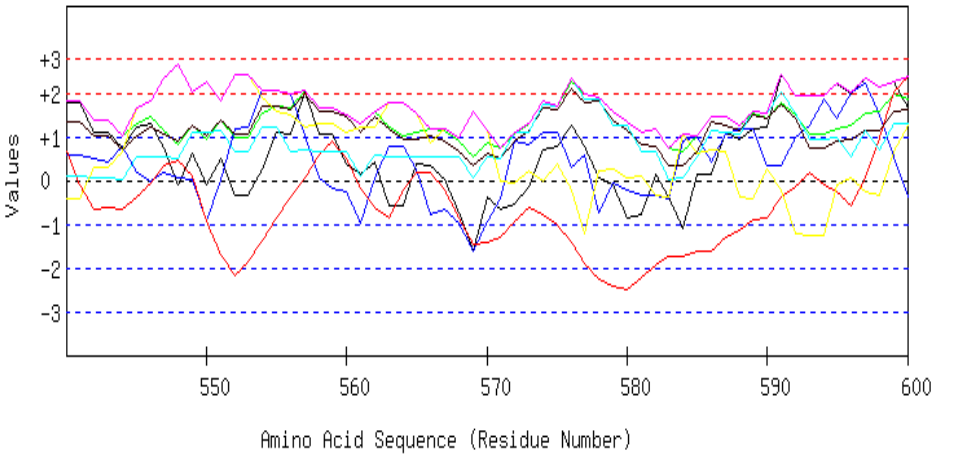


GRAPHICAL RESULT :: SEQ 481 to 540



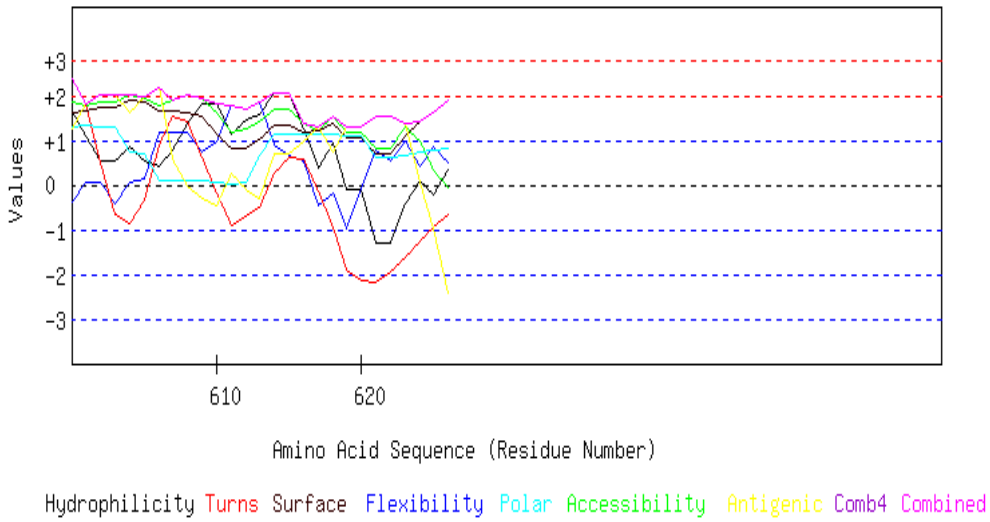
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 541 to 600



Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 601 to 660



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

MTTPSHLSDRYELGEILGFGGMSEVHLARDLRLHRDVAVKVLRADLARDPSFYLRFRREA
QNAAALNHPAIVAVYDTGEAETPAGPLPYIVMEYVDGVTLRDIVHTEGPMTPKRAIEVIA
DACQALNFSHQNGIIHRDVKPANIMISATNAVKVMDFGIARAIADSGNSVTQTAAVIGTA
QYLSPEQARGDSVDARSDVYSLGCVLYEVLTGEPPFTGDSPVSVAYQHVREDPIPPSARH
EGLSADLDAVVLKALAKNPENRYQTAAEMRADLVRVHNGEPPEAPKVLTDAERTSLLSSA
AGNLSGPRTDPLPRQDLDDTDRDRSIGSVGRWVAVVAVLAVLTVVVTIAINTFGGITRDV
QVPDVRGQSSADAIATLQNRGFKIRTLQKPDSTIPPDHVIGTDPAANTSVSAGDEITVNV
STGPEQREIPDVSTLTYAEAVKKLTAAGFGRFKQANSPSTPELVGKVIGTNPPANQTSAI
TNVVIIIVGSGPATKDIPDVAGQTVDVAQKNLNVYGFTKFSQASVDSPRPAGEVTGTNPP
AGTTVPVDSVIELQVSKGNQFVMPDLSGMFWVDAEPRLRALGWTGMLDKGADVDAGGSQH
NRVVYQNPPAGTGVNRDGIITLRFGQ

Length=626

A.A.	Parameter							Combined	
	Hydro	Flexi	Access	Turns	Surface	Polar	AntiPro	MAX	MIN
AVG									
1 M	0.446	0.898	-0.102	-0.881	1.786	0.226	-2.602	1.786	-2.602
-0.033									
2 T	0.857	0.808	0.505	-0.436	1.622	0.186	-1.432	1.622	-1.432
0.301									
3 T	0.990	1.173	1.122	0.501	1.476	0.746	-0.155	1.476	-0.155
0.836									
4 P	0.408	1.221	1.496	1.217	1.166	0.691	1.290	1.496	0.408
1.070									
5 S	1.084	1.676	1.655	1.883	1.276	0.694	1.505	1.883	0.694
1.396									
6 H	1.388	0.413	1.730	1.977	1.440	1.163	1.456	1.977	0.413
1.367									
7 L	1.325	0.898	1.963	1.685	1.759	1.768	1.414	1.963	0.898
1.545									
8 S	1.072	0.898	1.973	1.194	1.722	1.768	1.526	1.973	0.898
1.450									
9 D	1.154	0.670	2.150	0.485	1.932	2.348	1.340	2.348	0.485
1.440									
10 R	0.440	0.706	1.907	-0.477	1.768	1.733	1.508	1.907	-0.477
1.084									
11 Y	1.382	-0.432	1.982	-1.215	1.713	1.728	1.073	1.982	-1.215
0.890									
12 E	1.464	-0.230	2.160	-1.842	1.923	2.307	0.887	2.307	-1.842
0.953									
13 L	0.326	-0.178	1.748	-2.260	1.586	1.820	1.217	1.820	-2.260
0.608									
14 G	-0.521	-0.148	1.234	-2.393	1.121	1.201	1.653	1.653	-2.393
0.307									
15 E	-0.041	-0.148	0.973	-2.570	0.838	1.182	1.321	1.321	-2.570
0.222									
16 I	-1.116	-0.096	0.580	-2.501	0.428	0.586	1.599	1.599	-2.501
-0.074									
17 L	-0.174	0.115	0.655	-2.224	0.373	0.581	1.164	1.164	-2.224
0.070									
18 G	-0.174	1.175	0.655	-1.795	0.373	0.581	1.164	1.175	-1.795
0.283									
19 F	-0.932	1.123	0.318	-1.573	0.054	-0.002	1.135	1.135	-1.573
0.018									
20 G	-0.016	1.201	0.608	-1.341	0.228	0.017	0.973	1.201	-1.341
0.238									
21 G	1.059	0.664	1.019	-1.378	0.583	0.611	0.512	1.059	-1.378
0.439									
22 M	0.465	-0.168	0.907	-1.271	0.619	0.612	1.101	1.101	-1.271
0.324									
23 S	1.179	-0.054	1.132	-0.881	0.838	1.228	1.117	1.228	-0.881
0.651									
24 E	0.237	-0.096	1.057	-0.514	0.893	1.233	1.551	1.551	-0.514
0.623									
25 V	0.010	-0.132	1.066	-0.227	0.938	1.233	0.541	1.233	-0.227
0.490									
26 H	0.541	-0.240	1.505	-0.270	1.367	1.841	0.595	1.841	-0.270

0.763									
27 L	0.762	0.483	1.627	-0.525	1.531	2.310	0.427	2.310	-0.525
0.945									
28 A	-0.313	0.483	1.216	-0.888	1.175	1.716	0.888	1.716	-0.888
0.611									
29 R	0.187	0.574	1.767	-0.957	1.658	2.339	0.298	2.339	-0.957
0.838									
30 D	-0.528	0.574	1.524	-1.254	1.494	1.724	0.466	1.724	-1.254
0.571									
31 L	0.187	0.574	1.767	-1.041	1.658	2.339	0.298	2.339	-1.041
0.826									
32 R	0.319	0.682	2.197	-1.070	2.132	2.963	1.308	2.963	-1.070
1.219									
33 L	0.686	-0.132	2.038	-0.421	1.977	2.828	1.299	2.828	-0.421
1.182									
34 H	-0.180	-0.023	1.646	-0.067	1.649	2.340	1.897	2.340	-0.180
1.037									
35 R	0.534	0.718	1.730	0.259	1.640	2.335	0.452	2.335	0.259
1.095									
36 D	0.035	-0.192	1.178	-0.135	1.157	1.712	1.042	1.712	-0.192
0.685									
37 V	0.977	-0.935	1.711	-0.761	1.786	2.301	0.672	2.301	-0.935
0.822									
38 A	0.610	-0.026	1.431	-1.657	1.604	1.683	0.993	1.683	-1.657
0.663									
39 V	-0.237	-0.026	0.917	-2.057	1.139	1.064	1.429	1.429	-2.057
0.318									
40 K	-0.604	0.610	1.075	-2.454	1.294	1.199	1.437	1.437	-2.454
0.365									
41 V	-0.237	-0.426	1.197	-2.521	1.303	1.198	-0.162	1.303	-2.521
0.050									
42 L	0.263	-0.330	1.468	-2.244	1.622	1.687	0.839	1.687	-2.244
0.472									
43 R	-0.085	0.688	1.505	-1.867	1.640	1.690	0.686	1.690	-1.867
0.608									
44 A	-0.313	0.413	1.057	-1.308	1.002	1.096	-0.390	1.096	-1.308
0.223									
45 D	0.187	0.772	1.608	-1.107	1.485	1.719	-0.979	1.719	-1.107
0.526									
46 L	1.401	1.089	1.963	-0.975	1.795	2.202	-1.423	2.202	-1.423
0.865									
47 A	1.268	1.119	1.776	-0.928	1.595	1.597	-1.202	1.776	-1.202
0.746									
48 R	1.546	0.712	1.926	-0.311	1.750	1.617	-0.032	1.926	-0.311
1.030									
49 D	0.332	-0.306	1.589	0.350	1.385	1.132	0.228	1.589	-0.306
0.673									
50 P	0.794	-0.032	1.926	1.004	1.613	1.146	0.125	1.926	-0.032
0.939									
51 S	0.079	-0.564	1.842	0.867	1.622	1.151	1.570	1.842	-0.564
0.938									
52 F	0.079	-0.607	1.842	0.200	1.622	1.151	1.570	1.842	-0.607
0.837									
53 Y	-1.135	0.381	1.505	-0.750	1.257	0.667	1.830	1.830	-1.135
0.537									
54 L	-1.002	1.363	1.692	-1.462	1.458	1.272	1.609	1.692	-1.462
0.704									
55 R	-1.147	1.567	1.973	-1.886	1.777	1.877	1.449	1.973	-1.886
0.801									

56 F	-0.073	1.245	2.365	-2.079	2.187	2.472	1.171	2.472	-2.079	1.041
57 R	0.180	2.028	2.113	-2.228	1.950	2.453	-0.171	2.453	-2.228	0.904
58 R	1.141	1.215	2.524	-2.255	2.315	2.490	-0.443	2.524	-2.255	0.998
59 E	1.318	0.401	2.393	-1.664	2.151	1.906	-0.555	2.393	-1.664	0.850
60 A	2.033	-0.174	2.459	-0.909	2.196	1.902	-1.816	2.459	-1.816	0.813
61 Q	1.900	-0.378	2.029	0.032	1.722	1.277	-2.825	2.029	-2.825	0.537
62 N	1.767	-0.260	1.599	0.308	1.248	0.652	-3.835	1.767	-3.835	0.211
63 A	0.692	-0.779	1.188	-0.166	0.893	0.058	-3.373	1.188	-3.373	-0.213
64 A	1.002	-0.420	1.487	-0.616	1.203	0.099	-2.476	1.487	-2.476	0.040
65 A	0.756	-0.420	1.318	-0.354	1.002	0.676	-2.372	1.318	-2.372	0.087
66 L	0.446	-0.745	1.262	0.592	0.966	0.655	-2.039	1.262	-2.039	0.162
67 N	0.446	-0.637	1.262	1.771	0.966	0.655	-2.039	1.771	-2.039	0.346
68 H	-0.193	-1.246	1.122	1.975	0.948	0.657	-0.707	1.975	-1.246	0.365
69 P	-0.559	-1.432	1.001	0.998	0.938	0.658	0.891	1.001	-1.432	0.356
70 A	0.155	-2.197	1.085	-0.465	0.929	0.653	-0.554	1.085	-2.197	-0.056
71 I	-0.521	-1.658	0.664	-1.786	0.610	0.614	0.148	0.664	-1.786	-0.276
72 V	-0.774	-0.843	0.758	-2.306	0.674	0.013	0.213	0.758	-2.306	-0.324
73 A	-0.275	-0.120	0.786	-1.964	0.720	0.483	-0.016	0.786	-1.964	-0.055
74 V	-0.079	0.455	0.982	-1.253	0.875	0.503	1.035	1.035	-1.253	0.360
75 Y	0.787	0.552	1.113	-0.442	0.847	0.501	0.713	1.113	-0.442	0.582
76 D	1.514	1.533	1.561	-0.053	1.221	1.099	0.098	1.561	-0.053	0.996
77 T	1.514	1.485	1.561	-0.221	1.221	1.099	0.098	1.561	-0.221	0.966
78 G	2.241	1.353	2.010	-0.879	1.595	1.697	-0.517	2.241	-0.879	1.072
79 E	2.690	0.726	1.954	-1.431	1.513	1.698	-0.808	2.690	-1.431	0.906
80 A	2.191	0.778	1.926	-1.621	1.467	1.228	-0.579	2.191	-1.621	0.770
81 E	1.995	1.137	1.730	-1.350	1.312	1.208	-1.630	1.995	-1.630	0.629
82 T	1.995	0.357	1.730	-0.957	1.312	1.208	-1.630	1.995	-1.630	0.573
83 P	1.634	0.225	1.646	-0.675	1.221	0.627	-1.384	1.646	-1.384	0.471
84 A	0.920	-0.540	1.561	-0.739	1.230	0.633	0.061	1.561	-0.739	0.447
85 G	0.560	-0.865	1.477	-0.718	1.139	0.052	0.308	1.477	-0.865	

0.279
86 P 0.111 -1.588 1.533 -0.740 1.221 0.052 0.599 1.533 -1.588
0.170
87 L -0.528 -2.061 1.150 -0.820 0.929 0.034 0.701 1.150 -2.061
-0.085
88 P -0.894 -1.282 1.029 -1.031 0.920 0.036 2.299 2.299 -1.282
0.154
89 Y -1.520 -2.047 1.029 -1.538 1.011 0.053 2.244 2.244 -2.047
-0.110
90 I -1.160 -1.737 1.113 -2.185 1.103 0.634 1.998 1.998 -2.185
-0.034
91 V -0.698 -0.873 1.449 -2.512 1.330 0.648 1.895 1.895 -2.512
0.177
92 M -1.065 -0.150 1.085 -2.622 1.048 0.630 2.264 2.264 -2.622
0.170
93 E -0.313 -0.132 1.103 -2.128 1.130 1.100 1.923 1.923 -2.128
0.383
94 Y 0.553 -0.216 1.234 -1.462 1.103 1.098 1.601 1.601 -1.462
0.559
95 V 0.553 -0.013 1.234 -0.854 1.103 1.098 1.601 1.601 -0.854
0.675
96 D 1.148 0.896 1.440 -0.490 1.212 1.101 1.697 1.697 -0.490
1.000
97 G 0.073 0.896 1.029 -0.582 0.856 0.507 2.158 2.158 -0.582
0.705
98 V 0.459 -0.056 1.206 -1.010 1.093 1.112 1.825 1.825 -1.010
0.661
99 T 1.325 -0.056 1.599 -1.128 1.422 1.599 1.228 1.599 -1.128
0.855
100L 0.187 -0.456 1.188 -1.354 1.084 1.112 1.558 1.558 -1.354
0.474
101R -0.408 0.239 1.075 -1.230 1.121 1.114 2.147 2.147 -1.230
0.580
102D -0.041 0.001 1.356 -0.868 1.303 1.732 1.825 1.825 -0.868
0.758
103I -0.041 0.089 1.356 -0.510 1.303 1.732 1.825 1.825 -0.510
0.822
104V 1.034 0.772 1.767 -0.054 1.658 2.326 1.364 2.326 -0.054
1.267
105H 1.129 0.754 1.328 0.247 1.139 1.702 1.365 1.702 0.247
1.095
106T 0.629 1.155 1.300 0.079 1.093 1.232 1.594 1.594 0.079
1.012
107E 0.869 1.022 1.431 -0.401 1.157 1.247 1.217 1.431 -0.401
0.935
108G 1.432 1.279 1.748 -0.765 1.321 1.265 0.669 1.748 -0.765
0.993
109P 1.432 1.465 1.832 -1.026 1.422 0.664 0.622 1.832 -1.026
0.916
110M 1.464 1.107 2.085 -0.954 1.905 1.239 0.646 2.085 -0.954
1.070
111T 1.236 0.896 2.188 -0.928 2.014 1.264 0.672 2.188 -0.928
1.049
112P 1.009 0.980 2.197 -1.114 2.060 1.264 -0.339 2.197 -1.114
0.865
113K 0.370 0.525 1.814 -1.691 1.768 1.247 -0.237 1.814 -1.691
0.542
114R 1.129 -0.631 2.150 -2.181 2.087 1.829 -0.208 2.150 -2.181
0.596

115A	0.566	-1.444	1.832	-2.617	1.923	1.811	0.340	1.923	-2.617	0.344
116I	-0.073	-0.905	1.449	-2.861	1.631	1.794	0.442	1.794	-2.861	0.211
117E	-0.300	-0.581	1.001	-2.846	0.993	1.199	-0.634	1.199	-2.846	-0.167
118V	0.067	-1.119	0.842	-2.492	0.838	1.064	-0.642	1.064	-2.492	-0.206
119I	0.067	-0.532	0.842	-2.047	0.838	1.064	-0.642	1.064	-2.047	-0.059
120A	0.661	-0.208	0.767	-1.190	0.765	1.079	-0.341	1.079	-1.190	0.219
121D	0.547	-0.412	0.767	-0.488	0.774	0.522	-0.151	0.774	-0.488	0.223
122A	0.914	-0.342	0.889	-0.099	0.784	0.521	-1.750	0.914	-1.750	0.131
123C	0.838	-0.516	0.945	-0.219	0.811	0.524	-1.637	0.945	-1.637	0.106
124Q	1.148	0.303	1.244	-0.197	1.121	0.565	-0.740	1.244	-0.740	0.492
125A	-0.066	-0.098	0.907	-0.247	0.756	0.080	-0.480	0.907	-0.480	0.122
126L	0.212	0.393	1.057	0.480	0.911	0.100	0.690	1.057	0.100	0.549
127N	0.256	1.207	1.431	1.370	1.175	0.702	0.335	1.431	0.256	0.925
128F	0.256	1.225	1.431	2.127	1.175	0.702	0.335	2.127	0.256	1.036
129S	0.566	1.074	1.730	2.764	1.485	0.743	1.232	2.764	0.566	1.371
130H	1.508	-0.106	1.804	2.898	1.431	0.738	0.798	2.898	-0.106	1.296
131Q	0.560	-0.106	1.365	2.374	1.103	0.699	1.232	2.374	-0.106	1.032
132N	0.636	0.217	1.290	1.333	1.130	0.696	1.303	1.333	0.217	0.944
133G	0.357	0.147	1.300	0.286	1.148	1.296	1.410	1.410	0.147	0.849
134I	0.490	-0.576	1.571	-0.781	1.449	1.301	1.142	1.571	-0.781	0.656
135I	0.743	0.580	1.515	-0.591	1.394	1.748	0.970	1.748	-0.591	0.908
136H	0.067	1.263	1.094	-0.358	1.075	1.708	1.672	1.708	-0.358	0.931
137R	0.067	1.173	1.552	0.037	1.759	2.303	1.736	2.303	0.037	1.232
138D	0.705	0.968	1.935	-0.088	2.050	2.320	1.635	2.320	-0.088	1.361
139V	1.344	0.105	2.075	-0.450	2.069	2.318	0.303	2.318	-0.450	1.109
140K	1.653	0.087	2.216	-0.561	2.205	1.739	-0.077	2.216	-0.561	1.037
141P	0.882	-1.069	1.646	-0.274	1.713	1.116	0.245	1.713	-1.069	0.608
142A	-0.016	-0.572	1.365	-0.068	1.440	0.645	0.199	1.440	-0.572	0.427
143N	-0.288	-0.572	1.346	-0.365	1.431	0.645	-0.068	1.431	-0.572	0.304
144I	-0.237	-0.691	1.047	-0.863	0.948	0.070	0.027	1.047	-0.863	

0.043
145M -0.237 0.243 0.804 -1.618 0.674 0.051 -1.203 0.804 -1.618
-0.184
146I -0.041 0.357 1.001 -1.485 0.829 0.071 -0.153 1.001 -1.485
0.083
147S -0.041 0.586 1.001 -0.869 0.829 0.071 -0.153 1.001 -0.869
0.203
148A 0.598 0.562 1.141 0.086 0.847 0.069 -1.484 1.141 -1.484
0.260
149T 0.629 0.465 1.029 0.685 0.793 0.054 -0.840 1.029 -0.840
0.402
150N 1.495 -0.140 1.617 0.623 1.449 0.647 -1.097 1.617 -1.097
0.656
151A 0.850 -0.210 1.346 -0.186 1.285 0.628 -0.668 1.346 -0.668
0.435
152V 0.452 -0.384 1.337 -1.241 1.330 0.645 0.287 1.337 -1.241
0.347
153K 0.756 0.339 1.412 -1.760 1.494 1.114 0.237 1.494 -1.760
0.513
154V -0.269 -0.817 1.047 -1.857 1.139 1.078 0.601 1.139 -1.857
0.132
155M -0.041 -0.721 1.038 -1.186 1.093 1.078 1.612 1.612 -1.186
0.410
156D -0.313 0.207 1.019 -0.764 1.084 1.078 1.345 1.345 -0.764
0.522
157F -0.540 -0.332 0.571 -0.761 0.446 0.484 0.269 0.571 -0.761
0.020
158G -0.041 -0.482 1.122 -1.385 0.929 1.107 -0.320 1.122 -1.385
0.133
159I 0.357 -1.109 1.132 -1.984 0.884 1.089 -1.275 1.132 -1.984
-0.130
160A -0.781 -0.246 0.720 -2.589 0.547 0.602 -0.944 0.720 -2.589
-0.384
161R -0.066 0.610 0.786 -2.738 0.592 0.598 -2.206 0.786 -2.738
-0.346
162A 0.206 0.423 1.066 -2.475 0.957 1.087 -2.215 1.087 -2.475
-0.136
163I 1.122 1.032 1.356 -1.739 1.130 1.105 -2.377 1.356 -2.377
0.233
164A 1.350 2.213 1.346 -0.797 1.084 1.105 -1.366 2.213 -1.366
0.705
165D 1.527 2.116 1.216 0.506 0.920 0.521 -1.479 2.116 -1.479
0.761
166S 1.805 2.068 1.365 1.472 1.075 0.541 -0.309 2.068 -0.309
1.146
167G 2.077 1.704 1.384 2.005 1.084 0.541 -0.042 2.077 -0.042
1.250
168N 2.273 1.567 1.580 2.033 1.239 0.561 1.009 2.273 0.561
1.466
169S 2.020 0.958 1.636 1.503 1.294 0.114 1.182 2.020 0.114
1.244
170V 1.938 0.103 1.683 0.766 1.294 0.114 1.062 1.938 0.103
0.994
171T 1.710 0.103 1.692 0.166 1.339 0.114 0.052 1.710 0.052
0.740
172Q 1.401 -0.713 1.393 -0.417 1.030 0.074 -0.845 1.401 -0.845
0.275
173T 0.756 -0.576 1.122 -0.882 0.866 0.055 -0.416 1.122 -0.882
0.132

174A	0.484	-0.576	1.103	-1.393	0.856	0.056	-0.683	1.103	-1.393
-0.022									
175A	0.515	-0.576	0.898	-1.957	0.656	0.036	-0.724	0.898	-1.957
-0.165									
176V	0.465	-0.086	0.767	-2.206	0.437	0.013	-0.846	0.767	-2.206
-0.208									
177I	0.269	-0.396	0.571	-2.182	0.282	-0.007	-1.897	0.571	-2.182
-0.480									
178G	0.515	-0.276	0.898	-1.778	0.656	0.036	-0.724	0.898	-1.778
-0.096									
179T	0.263	-0.048	1.150	-1.369	0.893	0.055	0.619	1.150	-1.369
0.223									
180A	-0.085	-0.180	1.188	-1.156	0.911	0.059	0.465	1.188	-1.156
0.172									
181Q	0.832	0.395	1.477	-0.912	1.084	0.077	0.303	1.477	-0.912
0.465									
182Y	0.604	0.395	1.730	-0.676	1.403	0.096	0.523	1.730	-0.676
0.582									
183L	0.768	0.802	1.860	-0.419	1.613	0.676	0.456	1.860	-0.419
0.822									
184S	1.015	1.820	2.188	-0.100	1.987	0.718	1.629	2.188	-0.100
1.322									
185P	0.768	1.591	1.860	-0.188	1.613	0.676	0.456	1.860	-0.188
0.968									
186E	1.154	1.772	2.038	-0.623	1.850	1.281	0.123	2.038	-0.623
1.085									
187Q	2.096	2.052	2.113	-1.146	1.795	1.276	-0.312	2.113	-1.146
1.125									
188A	2.317	1.465	2.234	-1.398	1.959	1.744	-0.481	2.317	-1.398
1.120									
189R	2.595	2.004	2.141	-1.085	1.841	1.745	-0.541	2.595	-1.085
1.243									
190G	1.868	1.191	1.692	-0.360	1.467	1.147	0.074	1.868	-0.360
1.011									
191D	2.121	1.377	1.636	0.484	1.412	1.594	-0.098	2.121	-0.098
1.218									
192S	2.121	1.694	1.636	0.822	1.412	1.594	-0.098	2.121	-0.098
1.312									
193V	2.121	1.377	1.636	0.623	1.412	1.594	-0.098	2.121	-0.098
1.238									
194D	2.172	1.377	1.795	0.201	1.613	1.614	0.061	2.172	0.061
1.262									
195A	2.172	0.431	1.795	-0.045	1.613	1.614	0.061	2.172	-0.045
1.092									
196R	1.527	1.287	1.524	-0.033	1.449	1.596	0.490	1.596	-0.033
1.120									
197S	1.641	0.269	1.898	0.337	1.695	1.613	0.234	1.898	0.234
1.098									
198D	1.420	0.041	1.776	0.461	1.531	1.144	0.402	1.776	0.041
0.968									
199V	0.705	-0.462	1.692	0.297	1.540	1.150	1.847	1.847	-0.462
0.967									
200Y	0.800	-0.462	1.253	0.001	1.020	0.525	1.849	1.849	-0.462
0.712									
201S	0.477	-0.260	0.889	-0.304	0.774	0.523	2.311	2.311	-0.304
0.630									
202L	-0.389	-1.522	0.496	-0.591	0.446	0.036	2.909	2.909	-1.522
0.198									
203G	-0.736	-0.743	0.533	-0.761	0.465	0.039	2.755	2.755	-0.761

0.222									
204C	-0.736	-1.466	0.533	-0.972	0.465	0.039	2.755	2.755	-1.466
0.088									
205V	-0.654	-1.707	0.711	-1.360	0.674	0.619	2.569	2.569	-1.707
0.122									
206L	-0.307	-1.119	0.674	-1.629	0.656	0.615	2.723	2.723	-1.629
0.230									
207Y	-1.249	-0.288	0.599	-1.897	0.711	0.620	3.157	3.157	-1.897
0.236									
208E	-1.008	0.694	1.010	-2.004	0.957	0.623	2.576	2.576	-2.004
0.407									
209V	-0.414	0.477	1.122	-1.915	0.920	0.621	1.987	1.987	-1.915
0.400									
210L	0.661	0.932	1.533	-1.720	1.276	1.215	1.526	1.533	-1.720
0.775									
211T	0.914	0.962	1.524	-1.454	1.312	1.215	1.414	1.524	-1.454
0.841									
212G	0.553	0.962	1.440	-1.085	1.221	0.634	1.660	1.660	-1.085
0.769									
213E	0.206	0.962	1.496	-0.668	1.185	0.637	1.323	1.496	-0.668
0.734									
214P	1.116	0.926	1.776	-0.171	1.330	0.651	0.928	1.776	-0.171
0.937									
215P	1.148	1.423	1.571	0.068	1.130	0.632	0.888	1.571	0.068
0.980									
216F	1.420	1.423	1.851	0.288	1.494	1.120	0.879	1.851	0.288
1.211									
217T	1.337	1.501	1.674	0.489	1.285	0.541	1.065	1.674	0.489
1.127									
218G	1.337	1.866	1.674	0.824	1.285	0.541	1.065	1.866	0.541
1.227									
219D	0.971	1.143	1.309	1.086	1.002	0.524	1.434	1.434	0.524
1.067									
220S	1.963	0.604	1.524	1.280	1.203	0.539	1.342	1.963	0.539
1.208									
221P	1.401	-0.659	1.206	0.880	1.039	0.521	1.890	1.890	-0.659
0.897									
222V	1.173	-0.526	1.216	0.371	1.084	0.521	0.880	1.216	-0.526
0.674									
223S	0.421	-0.340	1.197	-0.319	1.002	0.051	1.221	1.221	-0.340
0.462									
224V	0.389	-1.292	1.375	-0.765	1.221	0.074	1.224	1.375	-1.292
0.318									
225A	0.389	-0.382	1.290	-0.708	1.121	0.675	1.272	1.290	-0.708
0.522									
226Y	0.389	0.193	1.290	-0.302	1.121	0.675	1.272	1.290	-0.302
0.662									
227Q	0.244	1.139	1.571	0.086	1.440	1.279	1.111	1.571	0.086
0.981									
228H	0.971	1.006	2.019	0.097	1.813	1.877	0.496	2.019	0.097
1.183									
229V	1.470	0.592	2.290	-0.195	2.132	2.366	1.497	2.366	-0.195
1.450									
230R	1.723	1.046	2.281	-0.565	2.169	2.366	1.385	2.366	-0.565
1.487									
231E	0.838	0.592	1.814	-0.544	1.777	2.325	1.543	2.325	-0.544
1.192									
232D	0.838	0.872	1.898	-0.340	1.877	1.724	1.496	1.898	-0.340
1.195									

233P	1.205	0.333	2.262	-0.088	2.160	1.742	1.127	2.262	-0.088	1.249
234I	1.350	0.788	1.982	0.091	1.841	1.137	1.288	1.982	0.091	1.211
235P	0.990	1.203	1.655	0.221	1.476	0.538	0.304	1.655	0.221	0.912
236P	0.623	1.419	1.814	0.229	1.631	0.673	0.312	1.814	0.229	0.957
237S	0.623	1.688	1.730	0.290	1.531	1.274	0.360	1.730	0.290	1.071
238A	1.622	0.628	2.197	0.137	1.914	1.872	0.012	2.197	0.012	1.197
239R	1.849	1.483	1.945	-0.026	1.595	1.853	-0.208	1.945	-0.208	1.213
240H	1.135	0.670	1.617	-0.260	1.330	1.839	0.007	1.839	-0.260	0.906
241E	1.135	1.119	1.617	-0.431	1.330	1.839	0.007	1.839	-0.431	0.945
242G	1.135	0.339	1.617	-0.741	1.330	1.839	0.007	1.839	-0.741	0.790
243L	1.502	0.251	1.459	-0.480	1.175	1.704	-0.001	1.704	-0.480	0.801
244S	0.787	0.455	1.216	-0.415	1.011	1.089	0.166	1.216	-0.415	0.616
245A	0.926	-0.496	1.160	0.204	0.966	0.979	0.184	1.160	-0.496	0.560
246D	0.699	-0.593	1.169	0.285	1.011	0.979	-0.827	1.169	-0.827	0.389
247L	1.046	-1.336	1.132	0.277	0.993	0.975	-0.673	1.132	-1.336	0.345
248D	0.402	-0.300	0.860	-0.285	0.829	0.956	-0.244	0.956	-0.300	0.317
249A	-0.313	-0.839	0.776	-0.827	0.838	0.962	1.201	1.201	-0.839	0.257
250V	-0.585	-1.043	0.954	-1.657	1.157	1.067	1.275	1.275	-1.657	0.167
251V	0.130	-0.947	1.038	-2.076	1.148	1.062	-0.170	1.148	-2.076	0.026
252L	-1.084	-0.019	0.683	-2.465	0.838	0.578	0.274	0.838	-2.465	-0.171
253K	-1.084	0.794	0.683	-2.490	0.838	0.578	0.274	0.838	-2.490	-0.058
254A	-0.490	0.321	1.253	-2.494	1.485	1.171	-0.250	1.485	-2.494	0.142
255L	0.187	0.896	1.674	-1.991	1.804	1.211	-0.951	1.804	-1.991	0.404
256A	0.901	1.710	2.001	-1.218	2.069	1.224	-1.166	2.069	-1.218	0.789
257K	1.034	2.523	1.879	-0.210	1.795	1.229	-1.258	2.523	-1.258	0.999
258N	1.344	1.285	2.178	0.863	2.105	1.270	-0.361	2.178	-0.361	1.240
259P	2.191	1.167	2.692	1.263	2.570	1.889	-0.797	2.692	-0.797	1.568
260E	1.938	1.299	2.945	1.197	2.807	1.908	0.546	2.945	0.546	1.806
261N	1.957	0.724	2.823	0.789	2.543	1.356	0.644	2.823	0.644	1.548
262R	1.843	0.115	2.720	0.187	2.388	1.335	0.798	2.720	0.115	

1.341									
263Y	1.843	-0.124	2.477	-0.323	2.114	1.316	-0.432	2.477	-0.432
0.982									
264Q	1.483	0.169	2.150	-0.563	1.750	0.717	-1.416	2.150	-1.416
0.613									
265T	1.533	0.491	2.178	-1.086	1.804	1.276	-1.329	2.178	-1.329
0.695									
266A	1.002	0.001	1.739	-1.481	1.376	0.668	-1.384	1.739	-1.481
0.274									
267A	1.388	0.540	1.917	-2.060	1.613	1.274	-1.717	1.917	-2.060
0.422									
268E	1.141	0.335	1.589	-2.528	1.239	1.231	-2.890	1.589	-2.890
0.017									
269M	1.445	-0.336	1.664	-2.468	1.403	1.700	-2.940	1.700	-2.940
0.067									
270R	0.730	0.592	1.580	-2.081	1.412	1.706	-1.495	1.706	-2.081
0.349									
271A	0.364	-0.318	1.459	-1.451	1.403	1.707	0.104	1.707	-1.451
0.467									
272D	0.136	-0.228	1.561	-1.173	1.513	1.732	0.130	1.732	-1.173
0.524									
273L	0.168	-0.158	1.449	-1.296	1.458	1.717	0.773	1.717	-1.296
0.587									
274V	0.035	0.674	1.178	-1.383	1.157	1.712	1.042	1.712	-1.383
0.631									
275R	0.345	1.345	1.477	-0.764	1.467	1.752	1.939	1.939	-0.764
1.080									
276V	0.073	0.890	1.197	0.256	1.103	1.264	1.948	1.948	0.073
0.961									
277H	1.148	1.345	1.608	1.385	1.458	1.858	1.487	1.858	1.148
1.470									
278N	1.514	1.830	1.973	1.690	1.741	1.875	1.118	1.973	1.118
1.677									
279G	1.382	1.221	1.786	1.176	1.540	1.269	1.339	1.786	1.176
1.387									
280E	2.109	0.952	2.234	0.383	1.914	1.867	0.724	2.234	0.383
1.455									
281P	2.109	1.209	2.075	-0.265	1.741	1.248	-0.554	2.109	-0.554
1.080									
282P	1.799	0.754	2.019	-0.595	1.704	1.226	-0.221	2.019	-0.595
0.955									
283E	1.799	0.191	2.477	-0.828	2.388	1.821	-0.156	2.477	-0.828
1.099									
284A	1.072	0.107	2.029	-1.061	2.014	1.223	0.459	2.029	-1.061
0.835									
285P	0.357	0.646	1.702	-1.405	1.750	1.209	0.674	1.750	-1.405
0.705									
286K	0.553	0.287	1.655	-1.596	1.631	1.210	0.495	1.655	-1.596
0.605									
287V	0.692	0.031	1.599	-1.429	1.586	1.099	0.512	1.599	-1.429
0.584									
288L	0.692	0.940	1.599	-1.028	1.586	1.099	0.512	1.599	-1.028
0.772									
289T	1.053	1.635	1.683	-0.595	1.677	1.680	0.266	1.683	-0.595
1.057									
290D	0.958	2.000	1.664	-0.476	1.513	1.710	0.200	2.000	-0.476
1.081									
291A	1.521	1.257	1.982	-0.778	1.677	1.728	-0.348	1.982	-0.778
1.005									

292E	2.513	1.052	2.216	-1.051	1.823	1.743	-0.623	2.513	-1.051
1.096									
293R	1.603	1.333	1.935	-1.061	1.677	1.728	-0.229	1.935	-1.061
0.998									
294T	0.389	1.375	1.580	-0.868	1.367	1.245	0.215	1.580	-0.868
0.758									
295S	0.667	0.884	1.730	-0.509	1.522	1.265	1.385	1.730	-0.509
0.992									
296L	0.585	0.029	1.552	-0.287	1.312	0.685	1.571	1.571	-0.287
0.778									
297L	0.452	0.860	1.122	-0.084	0.838	0.061	0.562	1.122	-0.084
0.544									
298S	0.256	1.674	0.926	0.106	0.683	0.041	-0.489	1.674	-0.489
0.457									
299S	0.206	0.614	0.767	-0.056	0.483	0.021	-0.649	0.767	-0.649
0.198									
300A	1.230	0.614	1.150	-0.074	0.784	0.056	-1.197	1.230	-1.197
0.366									
301A	1.230	1.241	1.150	-0.202	0.784	0.056	-1.197	1.241	-1.197
0.437									
302G	1.230	1.599	1.150	0.221	0.784	0.056	-1.197	1.599	-1.197
0.549									
303N	1.179	1.786	0.991	0.528	0.583	0.036	-1.356	1.786	-1.356
0.535									
304L	1.179	1.668	1.234	0.820	0.856	0.055	-0.126	1.668	-0.126
0.812									
305S	1.312	2.411	1.664	0.424	1.330	0.680	0.883	2.411	0.424
1.244									
306G	1.280	1.914	1.870	0.095	1.531	0.700	0.924	1.914	0.095
1.188									
307P	1.470	1.082	1.842	-0.287	1.540	1.148	1.028	1.842	-0.287
1.118									
308R	2.185	1.082	2.169	-0.007	1.804	1.161	0.813	2.185	-0.007
1.315									
309T	1.192	1.082	1.935	0.185	1.658	1.147	1.088	1.935	0.185
1.184									
310D	0.964	1.082	2.188	0.545	1.977	1.166	1.308	2.188	0.545
1.319									
311P	1.097	1.082	2.374	0.260	2.178	1.771	1.087	2.374	0.260
1.407									
312L	1.211	0.519	2.272	-0.118	2.078	1.189	1.251	2.272	-0.118
1.200									
313P	1.514	1.263	2.346	-0.409	2.242	1.658	1.201	2.346	-0.409
1.402									
314R	0.300	1.443	1.991	-0.499	1.932	1.175	1.645	1.991	-0.499
1.141									
315Q	0.800	1.121	2.019	-0.080	1.977	1.645	1.416	2.019	-0.080
1.271									
316D	2.014	1.169	2.374	0.543	2.287	2.128	0.972	2.374	0.543
1.641									
317L	2.210	1.443	2.328	1.021	2.169	2.129	0.793	2.328	0.793
1.728									
318D	2.577	2.186	2.169	1.590	2.014	1.993	0.785	2.577	0.785
1.902									
319D	2.463	2.461	2.272	1.688	2.114	2.576	0.621	2.576	0.621
2.028									
320T	2.463	2.778	2.272	1.564	2.114	2.576	0.621	2.778	0.621
2.055									
321D	3.310	1.962	2.786	1.094	2.579	3.195	0.185	3.310	0.185

2.159									
322R	3.089	2.050	2.664	0.704	2.415	2.726	0.354	3.089	0.354
2.000									
323D	1.951	2.092	2.253	0.122	2.078	2.239	0.684	2.253	0.122
1.631									
324R	1.982	1.457	2.047	-0.167	1.877	2.219	0.644	2.219	-0.167
1.437									
325S	1.761	1.271	1.926	-0.562	1.713	1.750	0.813	1.926	-0.562
1.239									
326I	1.261	1.229	1.375	-0.663	1.230	1.127	1.402	1.402	-0.663
0.994									
327G	0.990	1.050	1.094	-0.815	0.866	0.638	1.412	1.412	-0.815
0.748									
328S	0.990	0.327	1.094	-0.817	0.866	0.638	1.412	1.412	-0.817
0.644									
329V	-0.054	-0.528	0.963	-1.208	0.729	0.643	1.274	1.274	-1.208
0.260									
330G	0.218	-0.528	0.982	-1.657	0.738	0.643	1.541	1.541	-1.657
0.277									
331R	-0.009	-1.252	0.991	-2.084	0.784	0.643	0.531	0.991	-2.084
-0.057									
332W	-0.654	-2.065	0.720	-2.391	0.619	0.624	0.960	0.960	-2.391
-0.312									
333V	-0.654	-1.658	0.720	-2.352	0.619	0.624	0.960	0.960	-2.352
-0.249									
334A	-0.882	-1.767	0.730	-2.306	0.665	0.624	-0.051	0.730	-2.306
-0.427									
335V	-1.381	-1.767	0.178	-2.243	0.182	0.001	0.539	0.539	-2.243
-0.642									
336V	-1.331	-1.767	0.075	-2.248	0.173	-0.018	0.951	0.951	-2.248
-0.595									
337A	-0.964	-1.875	0.197	-2.273	0.182	-0.020	-0.647	0.197	-2.273
-0.772									
338V	-1.331	-1.384	0.075	-2.310	0.173	-0.018	0.951	0.951	-2.310
-0.549									
339L	-1.678	-1.384	0.113	-2.346	0.191	-0.015	0.798	0.798	-2.346
-0.617									
340A	-1.116	-1.276	0.431	-2.225	0.355	0.004	0.250	0.431	-2.225
-0.511									
341V	-1.482	-1.372	0.309	-2.068	0.346	0.005	1.849	1.849	-2.068
-0.345									
342L	-1.482	-0.785	0.309	-1.842	0.346	0.005	1.849	1.849	-1.842
-0.229									
343T	-1.135	-0.905	0.272	-1.729	0.328	0.001	2.002	2.002	-1.729
-0.166									
344V	-0.939	-1.396	0.468	-1.642	0.483	0.021	3.053	3.053	-1.642
0.007									
345V	-1.211	-1.624	0.449	-1.757	0.474	0.022	2.786	2.786	-1.757
-0.123									
346V	-0.496	-0.919	0.533	-1.780	0.465	0.016	1.341	1.341	-1.780
-0.120									
347T	-1.331	-0.332	0.197	-2.056	0.291	-0.002	1.622	1.622	-2.056
-0.230									
348I	-0.654	-0.997	0.618	-1.813	0.610	0.037	0.920	0.920	-1.813
-0.183									
349A	-0.092	-0.046	0.935	-1.410	0.774	0.056	0.372	0.935	-1.410
0.084									
350I	-0.439	0.582	0.991	-0.440	0.738	0.058	0.035	0.991	-0.440
0.218									

351N	-0.408	0.582	0.786	0.262	0.537	0.038	-0.006	0.786	-0.408
0.256									
352T	0.459	0.463	0.917	0.557	0.510	0.036	-0.327	0.917	-0.327
0.374									
353F	-0.180	0.786	0.776	-0.099	0.492	0.038	1.005	1.005	-0.180
0.403									
354G	0.655	1.499	1.113	-0.767	0.665	0.056	0.724	1.499	-0.767
0.564									
355G	0.477	0.776	1.244	-1.621	0.829	0.640	0.836	1.244	-1.621
0.455									
356I	0.781	0.640	1.318	-1.558	0.993	1.109	0.786	1.318	-1.558
0.581									
357T	1.129	0.868	1.262	-1.341	1.030	1.107	1.124	1.262	-1.341
0.740									
358R	1.148	0.736	1.599	-0.775	1.449	1.149	1.287	1.599	-0.775
0.942									
359D	0.553	0.461	1.487	-0.576	1.485	1.151	1.875	1.875	-0.576
0.920									
360V	1.192	-0.174	1.870	-0.405	1.777	1.168	1.773	1.870	-0.405
1.029									
361Q	1.495	0.736	1.945	-0.389	1.941	1.637	1.724	1.945	-0.389
1.298									
362V	0.996	0.872	1.393	-0.128	1.458	1.014	2.313	2.313	-0.128
1.131									
363P	0.629	1.459	1.552	-0.060	1.613	1.150	2.321	2.321	-0.060
1.238									
364D	1.224	1.956	1.664	-0.138	1.576	1.148	1.733	1.956	-0.138
1.309									
365V	1.224	2.273	1.664	-0.636	1.576	1.148	1.733	2.273	-0.636
1.283									
366R	1.868	2.369	1.935	-0.906	1.741	1.166	1.304	2.369	-0.906
1.354									
367G	2.147	2.094	1.842	-0.634	1.622	1.168	1.244	2.147	-0.634
1.355									
368Q	1.647	1.467	1.571	-0.072	1.303	0.679	0.243	1.647	-0.072
0.977									
369S	2.513	0.652	1.963	0.754	1.631	1.166	-0.355	2.513	-0.355
1.189									
370S	2.381	-0.204	1.533	0.944	1.157	0.541	-1.364	2.381	-1.364
0.713									
371A	1.514	-0.568	1.403	0.590	1.185	0.543	-1.043	1.514	-1.043
0.518									
372D	1.268	-0.773	1.075	-0.193	0.811	0.501	-2.216	1.268	-2.216
0.068									
373A	1.186	-0.821	1.122	-0.971	0.811	0.501	-2.335	1.186	-2.335
-0.073									
374I	0.193	-0.212	0.889	-1.644	0.665	0.486	-2.060	0.889	-2.060
-0.240									
375A	0.440	0.926	1.216	-1.660	1.039	0.528	-0.887	1.216	-1.660
0.229									
376T	0.250	1.553	1.244	-1.174	1.030	0.080	-0.991	1.553	-1.174
0.285									
377L	0.383	0.888	1.674	-0.458	1.504	0.705	0.019	1.674	-0.458
0.673									
378Q	1.249	1.924	1.804	0.236	1.476	0.703	-0.303	1.924	-0.303
1.013									
379N	0.534	1.109	1.739	0.423	1.431	0.707	0.958	1.739	0.423
0.986									
380R	0.566	1.313	1.991	-0.005	1.914	1.282	0.983	1.991	-0.005

1.149										
381G	0.642	0.990	1.935	-0.758	1.886	1.278	0.869	1.935	-0.758	
0.978										
382F	0.528	0.159	2.038	-1.516	1.987	1.860	0.705	2.038	-1.516	
0.823										
383K	0.414	0.824	1.935	-2.142	1.832	1.840	0.859	1.935	-2.142	
0.795										
384I	-0.433	0.824	1.421	-2.301	1.367	1.221	1.295	1.421	-2.301	
0.485										
385R	-0.414	1.507	1.758	-2.104	1.786	1.263	1.458	1.786	-2.104	
0.751										
386T	0.528	1.233	2.272	-1.875	2.470	1.853	1.272	2.470	-1.875	
1.107										
387L	0.300	1.597	2.066	-1.439	2.105	1.278	1.427	2.105	-1.439	
1.048										
388Q	1.438	2.293	2.477	-0.959	2.442	1.765	1.096	2.477	-0.959	
1.507										
389K	1.584	1.477	2.197	-0.205	2.123	1.160	1.257	2.197	-0.205	
1.371										
390P	1.584	1.004	2.197	0.577	2.123	1.160	1.257	2.197	0.577	
1.415										
391D	1.660	1.004	2.141	1.088	2.096	1.157	1.143	2.141	1.004	
1.470										
392S	1.413	1.004	2.057	0.987	1.996	1.133	1.200	2.057	0.987	
1.399										
393T	1.186	0.239	1.851	0.487	1.631	0.558	1.355	1.851	0.239	
1.044										
394I	1.685	-0.348	1.879	0.189	1.677	1.027	1.126	1.879	-0.348	
1.034										
395P	1.186	-0.348	1.767	0.583	1.531	1.158	1.402	1.767	-0.348	
1.040										
396P	0.541	-0.080	1.496	1.286	1.367	1.140	1.831	1.831	-0.080	
1.083										
397D	-0.294	0.053	1.160	1.623	1.194	1.122	2.112	2.112	-0.294	
0.996										
398H	0.572	0.053	1.290	1.198	1.166	1.120	1.791	1.791	0.053	
1.027										
399V	0.768	0.321	1.244	0.091	1.048	1.121	1.612	1.612	0.091	
0.886										
400I	1.268	0.417	1.272	-0.658	1.093	1.591	1.383	1.591	-0.658	
0.909										
401G	0.768	0.742	1.244	-0.627	1.048	1.121	1.612	1.612	-0.627	
0.844										
402T	0.768	0.724	1.085	-0.133	0.875	0.501	0.334	1.085	-0.133	
0.593										
403D	1.135	0.724	1.206	0.318	0.884	0.499	-1.265	1.206	-1.265	
0.500										
404P	2.083	1.040	1.646	0.555	1.212	0.538	-1.699	2.083	-1.699	
0.768										
405A	2.052	0.586	1.851	0.470	1.412	0.558	-1.659	2.052	-1.659	
0.753										
406A	2.134	1.441	1.804	0.865	1.412	0.558	-1.540	2.134	-1.540	
0.954										
407N	1.268	1.441	1.412	1.157	1.084	0.071	-0.942	1.441	-0.942	
0.784										
408T	1.546	1.459	1.318	1.461	0.966	0.072	-1.002	1.546	-1.002	
0.831										
409S	1.546	1.507	1.318	1.099	0.966	0.072	-1.002	1.546	-1.002	
0.787										

410V	1.774	1.227	1.309	0.615	0.920	0.072	0.008	1.774	0.008
0.846									
411S	1.963	0.998	1.281	0.063	0.929	0.520	0.112	1.963	0.063
0.838									
412A	2.128	0.634	1.412	-0.142	1.139	1.100	0.045	2.128	-0.142
0.902									
413G	1.211	0.538	1.122	-0.432	0.966	1.082	0.207	1.211	-0.432
0.670									
414D	1.774	0.519	1.440	-0.582	1.130	1.100	-0.341	1.774	-0.582
0.720									
415E	1.129	-0.116	1.169	-1.078	0.966	1.082	0.088	1.169	-1.078
0.463									
416I	1.438	0.165	1.468	-0.968	1.276	1.122	0.985	1.468	-0.968
0.784									
417T	0.844	0.980	1.356	-0.650	1.312	1.124	1.573	1.573	-0.650
0.934									
418V	0.623	1.117	1.234	0.142	1.148	0.655	1.742	1.742	0.142
0.952									
419N	0.459	1.571	1.103	0.784	0.938	0.075	1.809	1.809	0.075
0.963									
420V	1.325	1.537	1.234	1.051	0.911	0.074	1.488	1.537	0.074
1.089									
421S	1.129	2.124	1.281	0.758	1.030	0.073	1.667	2.124	0.073
1.152									
422T	1.856	2.082	1.730	0.372	1.403	0.671	1.052	2.082	0.372
1.309									
423G	1.793	2.166	1.758	-0.200	1.467	0.672	1.328	2.166	-0.200
1.283									
424P	2.292	1.215	2.309	-0.570	1.950	1.295	0.739	2.309	-0.570
1.319									
425E	2.374	1.215	2.487	-1.047	2.160	1.875	0.553	2.487	-1.047
1.374									
426Q	1.540	1.179	2.150	-1.604	1.987	1.857	0.834	2.150	-1.604
1.135									
427R	1.312	0.592	2.403	-1.873	2.306	1.876	1.053	2.403	-1.873
1.095									
428E	1.812	0.634	2.431	-1.824	2.351	2.346	0.824	2.431	-1.824
1.225									
429I	1.084	0.550	1.982	-1.274	1.977	1.748	1.439	1.982	-1.274
1.072									
430P	1.116	0.670	1.804	-0.402	1.759	1.725	1.436	1.804	-0.402
1.158									
431D	1.179	0.802	1.571	0.324	1.440	1.121	1.477	1.571	0.324
1.131									
432V	0.104	-0.144	1.160	0.535	1.084	0.527	1.939	1.939	-0.144
0.744									
433S	0.939	-0.048	1.496	0.401	1.257	0.545	1.658	1.658	-0.048
0.893									
434T	0.686	-0.328	1.505	-0.035	1.221	0.545	1.770	1.770	-0.328
0.766									
435L	0.187	-0.819	1.234	-0.566	0.902	0.056	0.769	1.234	-0.819
0.252									
436T	0.914	-0.711	1.683	-0.912	1.276	0.654	0.154	1.683	-0.912
0.437									
437Y	0.636	-0.370	1.533	-1.354	1.121	0.634	-1.016	1.533	-1.354
0.169									
438A	0.073	0.868	1.216	-1.734	0.957	0.616	-0.468	1.216	-1.734
0.218									
439E	1.015	0.664	1.748	-2.014	1.586	1.205	-0.838	1.748	-2.014

0.481
440A 1.046 0.580 2.001 -2.290 2.069 1.780 -0.814 2.069 -2.290
0.624
441V 0.585 0.580 1.664 -2.448 1.841 1.766 -0.711 1.841 -2.448
0.468
442K 0.781 0.676 1.860 -2.398 1.996 1.786 0.340 1.996 -2.398
0.720
443K 0.421 0.471 1.533 -2.259 1.631 1.186 -0.644 1.631 -2.259
0.334
444L 0.421 -0.534 1.533 -1.987 1.631 1.186 -0.644 1.631 -1.987
0.229
445T 1.015 0.297 1.646 -1.767 1.595 1.184 -1.232 1.646 -1.767
0.391
446A 0.073 0.620 1.132 -1.575 0.911 0.594 -1.046 1.132 -1.575
0.101
447A 0.073 0.445 0.674 -1.497 0.228 -0.001 -1.111 0.674 -1.497
-0.170
448G 0.920 1.277 1.188 -1.424 0.692 0.619 -1.547 1.277 -1.547
0.246
449F 0.010 1.141 0.926 -1.383 0.492 0.603 -1.336 1.141 -1.383
0.064
450G 0.237 1.315 1.375 -1.443 1.130 1.198 -0.261 1.375 -1.443
0.507
451R 0.484 1.297 1.702 -1.451 1.504 1.240 0.912 1.702 -1.451
0.812
452F 0.256 1.339 1.711 -1.494 1.549 1.240 -0.098 1.711 -1.494
0.643
453K 1.280 1.872 2.075 -1.024 1.905 1.276 -0.462 2.075 -1.024
0.989
454Q 1.331 1.896 2.234 -0.279 2.105 1.296 -0.303 2.234 -0.303
1.183
455A 1.198 1.896 2.047 0.853 1.905 0.691 -0.082 2.047 -0.082
1.215
456N 2.191 2.255 2.262 1.777 2.105 0.707 -0.173 2.262 -0.173
1.589
457S 2.159 2.221 2.010 2.287 1.622 0.132 -0.198 2.287 -0.198
1.462
458P 1.913 1.161 1.926 2.131 1.522 0.108 -0.141 2.131 -0.141
1.231
459S 2.273 0.706 2.253 1.604 1.886 0.708 0.843 2.273 0.706
1.468
460T 1.249 0.477 1.870 0.691 1.586 0.673 1.391 1.870 0.477
1.134
461P 0.604 0.818 1.599 -0.245 1.422 0.654 1.820 1.820 -0.245
0.953
462E 0.832 0.363 1.346 -1.085 1.103 0.635 1.600 1.600 -1.085
0.685
463L 0.781 -0.536 1.646 -1.803 1.586 1.210 1.505 1.646 -1.803
0.627
464V 0.218 0.295 1.328 -2.106 1.422 1.192 2.053 2.053 -2.106
0.629
465G -0.420 0.882 0.945 -2.351 1.130 1.174 2.155 2.155 -2.351
0.502
466K -0.553 0.864 0.608 -2.420 0.720 0.575 2.182 2.182 -2.420
0.282
467V 0.357 0.391 0.889 -2.397 0.866 0.589 1.787 1.787 -2.397
0.355
468I 1.034 0.846 1.309 -1.751 1.185 0.628 1.086 1.309 -1.751
0.620

469G	0.806	1.171	1.561	-0.708	1.504	0.647	1.305	1.561	-0.708
0.898									
470T	0.579	1.153	1.356	0.682	1.139	0.072	1.460	1.460	0.072
0.920									
471N	0.945	1.153	1.477	1.447	1.148	0.070	-0.139	1.477	-0.139
0.872									
472P	1.894	1.034	1.917	1.870	1.476	0.109	-0.573	1.917	-0.573
1.104									
473P	1.913	1.531	2.253	1.604	1.895	0.151	-0.410	2.253	-0.410
1.277									
474A	1.913	1.173	2.253	1.535	1.895	0.151	-0.410	2.253	-0.410
1.216									
475N	1.881	0.848	2.103	1.452	1.741	0.131	-0.138	2.103	-0.138
1.145									
476Q	1.881	0.730	1.860	1.375	1.467	0.112	-1.368	1.881	-1.368
0.865									
477T	1.242	0.848	1.477	0.788	1.175	0.095	-1.266	1.477	-1.266
0.623									
478S	1.438	0.261	1.674	0.146	1.330	0.115	-0.215	1.674	-0.215
0.678									
479A	1.438	-0.691	1.674	-0.347	1.330	0.115	-0.215	1.674	-0.691
0.472									
480I	0.825	-1.015	1.225	-0.324	0.948	0.074	0.210	1.225	-1.015
0.278									
481T	0.263	-1.015	0.907	0.105	0.784	0.055	0.758	0.907	-1.015
0.265									
482N	-0.654	-1.831	0.618	0.086	0.610	0.037	0.920	0.920	-1.831
-0.031									
483V	-1.293	-2.536	0.477	-0.508	0.592	0.039	2.252	2.252	-2.536
-0.139									
484V	-1.293	-1.813	0.477	-1.674	0.592	0.039	2.252	2.252	-1.813
-0.203									
485I	-1.856	-0.861	0.160	-2.676	0.428	0.021	2.800	2.800	-2.676
-0.283									
486I	-1.938	0.091	-0.149	-3.255	0.073	-0.020	2.913	2.913	-3.255
-0.326									
487I	-1.293	0.774	0.122	-2.805	0.237	-0.002	2.484	2.484	-2.805
-0.069									
488V	-0.698	1.099	0.234	-2.097	0.200	-0.003	1.896	1.896	-2.097
0.090									
489G	-0.060	1.686	0.618	-1.092	0.492	0.014	1.794	1.794	-1.092
0.493									
490S	0.579	1.890	0.758	-0.482	0.510	0.012	0.462	1.890	-0.482
0.533									
491G	1.413	1.573	1.094	-0.159	0.683	0.030	0.182	1.573	-0.159
0.688									
492P	2.008	0.622	1.664	-0.401	1.330	0.623	-0.342	2.008	-0.401
0.786									
493A	2.279	0.622	1.945	-0.430	1.695	1.112	-0.351	2.279	-0.430
0.982									
494T	1.363	1.161	1.655	-0.716	1.522	1.094	-0.190	1.655	-0.716
0.841									
495K	1.135	0.574	1.907	-0.505	1.841	1.113	0.030	1.907	-0.505
0.871									
496D	1.634	-0.258	1.935	-0.321	1.886	1.583	-0.199	1.935	-0.321
0.895									
497I	1.268	-0.170	1.814	-0.018	1.877	1.585	1.400	1.877	-0.170
1.108									
498P	1.072	0.646	1.617	0.045	1.722	1.565	0.349	1.722	0.045

1.002									
499D	1.072	0.778	1.160	-0.042	1.039	0.970	0.284	1.160	-0.042
0.751									
500V	0.819	0.143	1.216	-0.558	1.093	0.524	0.457	1.216	-0.558
0.528									
501A	1.653	0.778	1.552	-0.848	1.267	0.542	0.176	1.653	-0.848
0.731									
502G	1.287	0.682	1.188	-1.030	0.984	0.524	0.545	1.287	-1.030
0.597									
503Q	1.287	0.055	1.188	-0.769	0.984	0.524	0.545	1.287	-0.769
0.545									
504T	1.287	0.055	1.188	-0.448	0.984	0.524	0.545	1.287	-0.448
0.591									
505V	1.287	0.395	1.188	-0.266	0.984	0.524	0.545	1.287	-0.266
0.665									
506D	1.306	1.101	1.524	-0.353	1.403	0.567	0.708	1.524	-0.353
0.893									
507V	1.287	0.357	1.646	-0.701	1.668	1.119	0.609	1.668	-0.701
0.855									
508A	1.401	1.062	1.748	-0.700	1.823	1.140	0.456	1.823	-0.700
0.990									
509Q	1.053	0.966	1.786	-0.499	1.841	1.143	0.302	1.841	-0.499
0.942									
510K	0.863	0.069	1.814	0.308	1.832	0.695	0.198	1.832	0.069
0.825									
511N	0.863	-0.136	1.814	0.954	1.832	0.695	0.198	1.832	-0.136
0.888									
512L	0.610	-0.919	2.066	1.384	2.069	0.714	1.540	2.069	-0.919
1.066									
513N	0.591	-0.224	1.730	0.956	1.649	0.672	1.377	1.730	-0.224
0.964									
514V	-0.351	-0.001	1.216	0.439	0.966	0.082	1.563	1.563	-0.351
0.559									
515Y	-0.465	-0.080	1.113	-0.387	0.811	0.061	1.717	1.717	-0.465
0.396									
516G	0.477	1.183	1.646	-0.618	1.440	0.650	1.347	1.646	-0.618
0.875									
517F	-0.547	1.046	1.281	-0.837	1.084	0.614	1.711	1.711	-0.837
0.622									
518T	0.098	1.221	1.552	-0.592	1.248	0.632	1.282	1.552	-0.592
0.777									
519K	0.598	1.585	1.627	-0.360	1.385	0.655	1.113	1.627	-0.360
0.943									
520F	0.370	0.658	1.636	-0.097	1.431	0.655	0.103	1.636	-0.097
0.679									
521S	1.363	1.371	1.851	0.206	1.631	0.671	0.012	1.851	0.012
1.015									
522Q	0.800	1.371	1.533	0.141	1.467	0.653	0.560	1.533	0.141
0.932									
523A	1.072	1.239	1.356	0.259	1.148	0.547	0.486	1.356	0.259
0.872									
524S	2.064	2.052	1.571	0.422	1.349	0.563	0.394	2.064	0.394
1.202									
525V	1.786	1.555	1.664	0.842	1.467	0.562	0.454	1.786	0.454
1.190									
526D	1.672	1.652	1.767	1.085	1.567	1.144	0.290	1.767	0.290
1.311									
527S	1.672	1.740	2.010	1.162	1.841	1.163	1.520	2.010	1.162
1.587									

528P	1.394	1.459	1.860	0.507	1.686	1.143	0.350	1.860	0.350
1.200									
529R	1.989	1.004	1.973	-0.095	1.649	1.141	-0.238	1.989	-0.238
1.061									
530P	1.849	0.682	2.029	-0.847	1.695	1.252	-0.255	2.029	-0.847
0.915									
531A	1.205	0.950	1.758	-1.336	1.531	1.234	0.173	1.758	-1.336
0.788									
532G	1.401	1.441	1.711	-1.626	1.412	1.235	-0.006	1.711	-1.626
0.795									
533E	1.495	1.423	1.272	-1.640	0.893	0.610	-0.005	1.495	-1.640
0.578									
534V	1.691	1.207	1.225	-1.479	0.774	0.611	-0.184	1.691	-1.479
0.549									
535T	2.001	1.662	1.524	-0.731	1.084	0.651	0.713	2.001	-0.731
0.986									
536G	1.774	1.171	1.776	0.158	1.403	0.670	0.933	1.776	0.158
1.126									
537T	1.413	1.171	1.692	1.173	1.312	0.090	1.179	1.692	0.090
1.147									
538N	1.780	1.171	1.814	1.671	1.321	0.088	-0.420	1.814	-0.420
1.061									
539P	1.812	1.052	1.608	1.430	1.121	0.068	-0.460	1.812	-0.460
0.947									
540P	1.780	0.598	1.814	0.655	1.321	0.088	-0.420	1.814	-0.420
0.834									
541A	1.780	0.598	1.814	-0.094	1.321	0.088	-0.420	1.814	-0.420
0.727									
542G	1.103	0.501	1.393	-0.679	1.002	0.049	0.282	1.393	-0.679
0.522									
543T	1.103	0.413	1.393	-0.625	1.002	0.049	0.282	1.393	-0.625
0.517									
544T	0.737	0.778	1.029	-0.648	0.720	0.032	0.651	1.029	-0.648
0.471									
545V	1.236	0.191	1.300	-0.394	1.039	0.521	1.652	1.652	-0.394
0.792									
546P	1.287	-0.038	1.459	-0.064	1.239	0.541	1.812	1.812	-0.064
0.891									
547V	0.724	0.179	1.141	0.342	1.075	0.522	2.360	2.360	0.179
0.906									
548D	-0.111	0.071	0.804	0.442	0.902	0.504	2.640	2.640	-0.111
0.751									
549S	0.617	0.023	1.253	0.085	1.276	1.102	2.025	2.025	0.023
0.912									
550V	-0.098	-0.929	0.926	-0.925	1.011	1.089	2.240	2.240	-0.929
0.473									
551I	0.515	0.023	1.375	-1.705	1.394	1.130	1.815	1.815	-1.705
0.649									
552E	-0.351	1.179	0.982	-2.186	1.066	0.642	2.413	2.413	-2.186
0.535									
553L	-0.351	1.231	0.982	-1.867	1.066	0.642	2.413	2.413	-1.867
0.588									
554Q	0.244	2.044	1.552	-1.368	1.713	1.235	1.889	2.044	-1.368
1.044									
555V	1.110	2.044	1.683	-0.871	1.686	1.233	1.568	2.044	-0.871
1.208									
556S	1.059	1.966	1.655	-0.387	1.631	0.675	1.481	1.966	-0.387
1.154									
557K	2.020	1.014	2.066	0.059	1.996	0.712	1.209	2.066	0.059

1.297
558G 1.059 0.069 1.674 0.575 1.576 0.673 1.297 1.674 0.069
0.989
559N 1.059 -0.200 1.674 0.899 1.576 0.673 1.297 1.674 -0.200
0.997
560Q 0.383 -0.270 1.515 0.513 1.467 0.670 1.082 1.515 -0.270
0.766
561F 0.155 -0.965 1.309 -0.169 1.103 0.095 1.237 1.309 -0.965
0.395
562V 0.427 0.065 1.589 -0.638 1.467 0.584 1.228 1.589 -0.638
0.674
563M -0.597 0.788 1.206 -0.863 1.166 0.549 1.776 1.776 -0.863
0.575
564P -0.566 0.788 1.029 -0.238 0.948 0.526 1.772 1.772 -0.566
0.608
565D 0.376 0.255 1.085 0.163 0.948 0.522 1.521 1.521 0.163
0.696
566L 0.345 -0.787 1.197 0.161 1.002 0.538 0.877 1.197 -0.787
0.476
567S 0.029 -0.679 1.141 -0.210 0.911 0.525 1.184 1.184 -0.679
0.414
568G -0.736 -0.995 0.917 -0.862 0.656 0.531 0.986 0.986 -0.995
0.071
569M -1.603 -1.622 0.524 -1.463 0.328 0.043 1.584 1.584 -1.622
-0.316
570F -0.389 -0.933 0.879 -1.416 0.638 0.527 1.140 1.140 -1.416
0.064
571W -0.667 -0.400 0.730 -1.311 0.483 0.507 -0.030 0.730 -1.311
-0.098
572V -0.534 0.916 1.066 -0.953 0.893 1.107 -0.057 1.107 -0.953
0.348
573D -0.136 0.808 1.318 -0.636 1.121 1.108 0.219 1.318 -0.636
0.543
574A 0.711 1.082 1.814 -0.761 1.640 1.729 -0.034 1.814 -0.761
0.883
575E 0.762 1.082 1.711 -1.023 1.631 1.709 0.379 1.711 -1.023
0.893
576P 1.261 0.303 2.262 -1.412 2.114 2.332 -0.210 2.332 -1.412
0.950
577R 0.762 0.572 1.991 -1.919 1.795 1.843 -1.212 1.991 -1.919
0.548
578L 0.048 -0.745 1.907 -2.272 1.804 1.849 0.234 1.907 -2.272
0.403
579R -0.085 -0.050 1.571 -2.413 1.394 1.249 0.260 1.571 -2.413
0.275
580A -0.850 -0.236 1.346 -2.497 1.139 1.255 0.062 1.346 -2.497
0.031
581L -0.787 -0.350 1.113 -2.211 0.820 0.650 0.104 1.113 -2.211
-0.094
582G 0.155 -0.350 1.188 -1.943 0.765 0.645 -0.331 1.188 -1.943
0.019
583W -0.376 -0.438 0.748 -1.724 0.337 0.038 -0.385 0.748 -1.724
-0.257
584T -1.090 0.896 0.664 -1.727 0.346 0.043 1.060 1.060 -1.727
0.027
585G 0.123 1.032 1.019 -1.628 0.656 0.527 0.616 1.032 -1.628
0.335
586M 0.123 0.405 1.477 -1.625 1.339 1.121 0.681 1.477 -1.625
0.503

587L	1.116	1.058	1.449	-1.299	1.276	1.096	0.659	1.449	-1.299
0.765									
588D	0.920	1.167	1.253	-1.150	1.121	1.076	-0.392	1.253	-1.150
0.571									
589K	1.192	1.167	1.533	-0.887	1.485	1.565	-0.401	1.565	-0.887
0.808									
590G	1.224	0.335	1.421	-0.858	1.431	1.549	0.243	1.549	-0.858
0.763									
591A	2.437	0.335	1.776	-0.379	1.741	2.033	-0.201	2.437	-0.379
1.106									
592D	1.938	0.962	1.505	-0.152	1.422	1.544	-1.202	1.938	-1.202
0.859									
593V	1.938	1.279	1.047	0.175	0.738	0.949	-1.267	1.938	-1.267
0.694									
594D	1.938	1.866	1.047	-0.089	0.738	0.949	-1.267	1.938	-1.267
0.740									
595A	2.216	1.417	1.197	-0.278	0.893	0.969	-0.097	2.216	-0.278
0.902									
596G	1.963	2.026	1.253	-0.564	0.948	0.523	0.075	2.026	-0.564
0.889									
597G	2.330	2.213	1.533	0.052	1.130	1.141	-0.246	2.330	-0.246
1.165									
598S	2.140	1.489	1.561	0.991	1.121	0.693	-0.350	2.140	-0.350
1.092									
599Q	2.273	0.538	1.991	2.002	1.595	1.317	0.659	2.273	0.538
1.482									
600H	1.679	-0.360	1.879	2.389	1.631	1.319	1.247	2.389	-0.360
1.398									
601N	1.084	0.041	1.767	1.814	1.668	1.321	1.836	1.836	0.041
1.361									
602R	0.553	0.041	1.870	0.491	1.750	1.320	2.008	2.008	0.041
1.147									
603V	0.553	-0.414	1.870	-0.669	1.750	1.320	2.008	2.008	-0.669
0.917									
604V	0.863	0.041	2.010	-0.874	1.886	0.741	1.628	2.010	-0.874
0.899									
605Y	0.553	0.137	1.954	-0.323	1.850	0.719	1.961	1.961	-0.323
0.979									
606Q	0.421	1.171	1.767	0.908	1.649	0.113	2.182	2.182	0.113
1.173									
607N	0.787	1.171	1.889	1.530	1.658	0.112	0.583	1.889	0.112
1.104									
608P	1.382	1.189	2.001	1.418	1.622	0.110	-0.006	2.001	-0.006
1.102									
609P	1.830	0.734	1.945	0.635	1.540	0.111	-0.297	1.945	-0.297
0.928									
610A	1.812	0.984	1.608	-0.196	1.121	0.068	-0.460	1.812	-0.460
0.705									
611G	1.135	1.798	1.188	-0.903	0.802	0.029	0.242	1.798	-0.903
0.613									
612T	1.445	1.710	1.244	-0.718	0.838	0.051	-0.091	1.710	-0.718
0.640									
613G	1.578	1.846	1.431	-0.491	1.039	0.657	-0.312	1.846	-0.491
0.821									
614V	2.077	0.894	1.702	0.244	1.358	1.146	0.689	2.077	0.244
1.158									
615N	2.077	0.666	1.702	0.615	1.358	1.146	0.689	2.077	0.615
1.179									
616R	1.242	0.548	1.365	0.575	1.185	1.127	0.970	1.365	0.548

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1.002
617D          0.376   -0.470    1.234   -0.146    1.212    1.129    1.291    1.291   -0.470
0.661
618G          0.939   -0.196    1.552   -0.923    1.376    1.148    0.743    1.552   -0.923
0.663
619I         -0.085   -0.997    1.169   -1.913    1.075    1.112    1.291    1.291   -1.913
0.236
620I         -0.085   -0.046    1.169   -2.146    1.075    1.112    1.291    1.291   -2.146
0.339
621T         -1.299    0.770    0.832   -2.181    0.711    0.628    1.551    1.551   -2.181
0.145
622L         -1.299    0.534    0.832   -1.946    0.711    0.628    1.551    1.551   -1.946
0.144
623R         -0.414    0.992    1.300   -1.625    1.103    0.668    1.393    1.393   -1.625
0.488
624F          0.092    0.433    0.982   -1.269    1.440    0.727    0.061    1.440   -1.269
0.352
625G         -0.237    0.862    0.328   -0.956    1.604    0.767   -0.990    1.604   -0.990
0.197
626Q          0.345    0.489   -0.046   -0.647    1.914    0.821   -2.435    1.914   -2.435
0.063
```

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]MTTPSHLSDRYELGEILGFGGMSEVHLARDLRLHRDVAVKVLRADLARDPSFYLRFRREAQNAAALNH DEITVNVSTGPEQREIPDVSTLTYAEAVKKLTAAGFGRFKQANSPSTPELVGKVIGTNPPANQTSAITNVVI
Hydrophilicity	[1]MTTPSHLSDRYELGEILGFGGMSEVHLARDLRLHRDVAVKVLRADLARDPSFYLRFRREAQNAAALNH DEITVNVSTGPEQREIPDVSTLTYAEAVKKLTAAGFGRFKQANSPSTPELVGKVIGTNPPANQTSAITNVVI
Flexibility	[1]MTTPSHLSDRYELGEILGFGGMSEVHLARDLRLHRDVAVKVLRADLARDPSFYLRFRREAQNAAALNH DEITVNVSTGPEQREIPDVSTLTYAEAVKKLTAAGFGRFKQANSPSTPELVGKVIGTNPPANQTSAITNVVI
Accessibility	[1]MTTPSHLSDRYELGEILGFGGMSEVHLARDLRLHRDVAVKVLRADLARDPSFYLRFRREAQNAAALNH DEITVNVSTGPEQREIPDVSTLTYAEAVKKLTAAGFGRFKQANSPSTPELVGKVIGTNPPANQTSAITNVVI
Turns	[1]MTTPSHLSDRYELGEILGFGGMSEVHLARDLRLHRDVAVKVLRADLARDPSFYLRFRREAQNAAALNH

	DEITVNVSTGPEQREIPDVSTLTYAEAVKKLTAAGFGRFKQANSPSTPELVGKVIGTNPPANQTSAITNVVI
Exposed Surface	[1]MTTPSHLSDRYELGEILGFGGMSEVHLARDLRLHRDVAVKVLRADLARDPSFYLRFRREAQNAAALNH DEITVNVSTGPEQREIPDVSTLTYAEAVKKLTAAGFGRFKQANSPSTPELVGKVIGTNPPANQTSAITNVVI
Polarity	[1]MTTPSHLSDRYELGEILGFGGMSEVHLARDLRLHRDVAVKVLRADLARDPSFYLRFRREAQNAAALNH DEITVNVSTGPEQREIPDVSTLTYAEAVKKLTAAGFGRFKQANSPSTPELVGKVIGTNPPANQTSAITNVVI
Antigenic Propensity	[1]MTTPSHLSDRYELGEILGFGGMSEVHLARDLRLHRDVAVKVLRADLARDPSFYLRFRREAQNAAALNH DEITVNVSTGPEQREIPDVSTLTYAEAVKKLTAAGFGRFKQANSPSTPELVGKVIGTNPPANQTSAITNVVI

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