BcePred Prediction Server

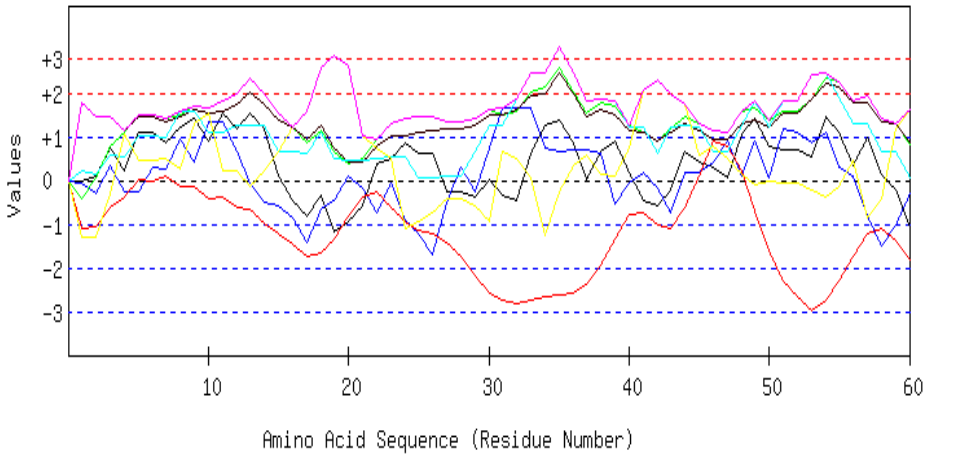
The server displays 1.GRAPHICAL RESULT 2.TABULAR RESULT 3.Overlap Display

seqname=
Seq=VVQPADIDVPETPARPVLVVDFGAQYAQLIARRVREARVFSEVIPHTASIEEIRARQPVA
LVLSGGPASVYADGAPKLDPALLDLGVPVLGICYGFQAMAQALGGIVAHTGTREYGRTEL
KVLGGKLHSDLPEVQPVWMSHGDAVTAAPDGFDVVASSAGAPVAAFEAFDRRLAGVQYHPE
VMHTPHGQQVLSRFLHDFAGLGAQWTPANIANALIEQVRTQIGDGHAICGLSGGVDSAV
AAALVQRAIGDRLTCVFVDHGLLRAGERAQVQRDFVAATGANLVTVDAAETFLEALSGVS
APEGKRKIIGRQFIRAFEGAVRDVLDGKTAEFLVQGTLYPDVVESGGGSGTANIKSHHNV
GGLPDDLKFTLVEPLRLLFKDEVRAVGRELGLPEEIVARQPFPGPGLGIRIVGEVTAKRL
DTLRHADSIVREELTAAGLDNQIWQCPVVLLADVRSVGVQGDGRTYGHPIVLRPVSSEDA
MTADWTRVPYEVLERISTRITNEVAEVNRVVLDITSKPPATIEWE

Length=525

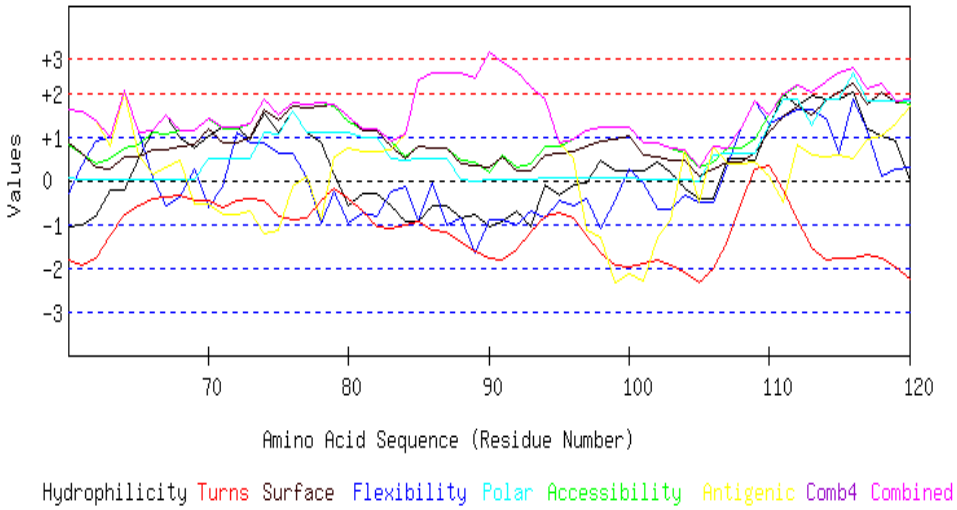
GRAPHICAL RESULT

GRAPHICAL RESULT :: SEQ 1 to 60

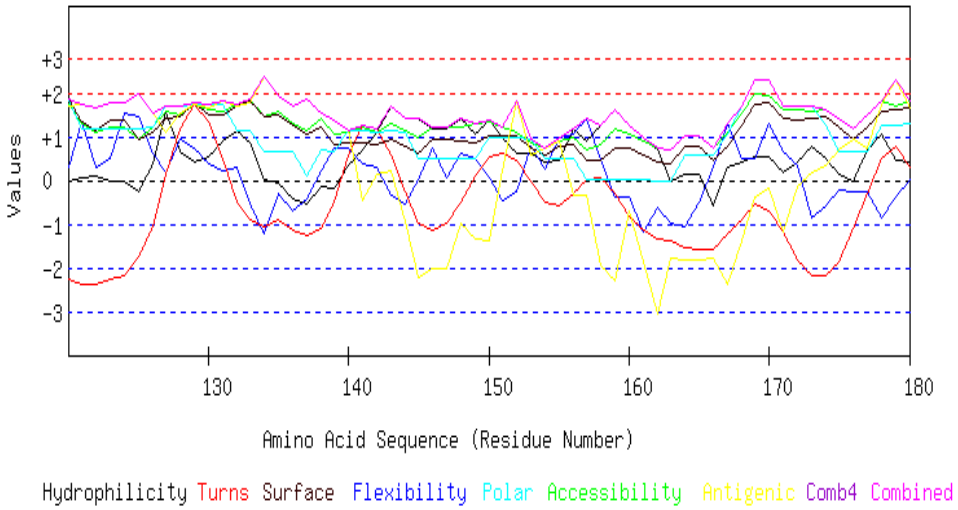


Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

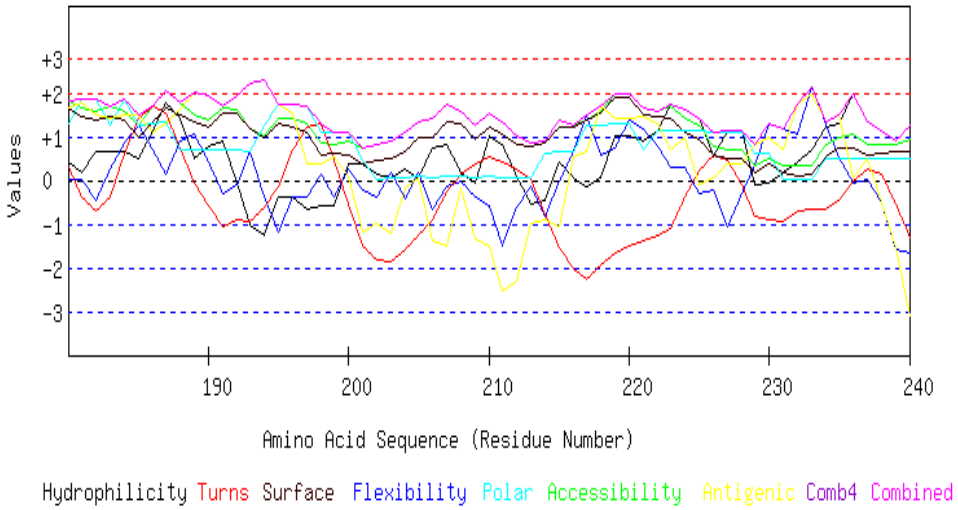
GRAPHICAL RESULT :: SEQ 61 to 120



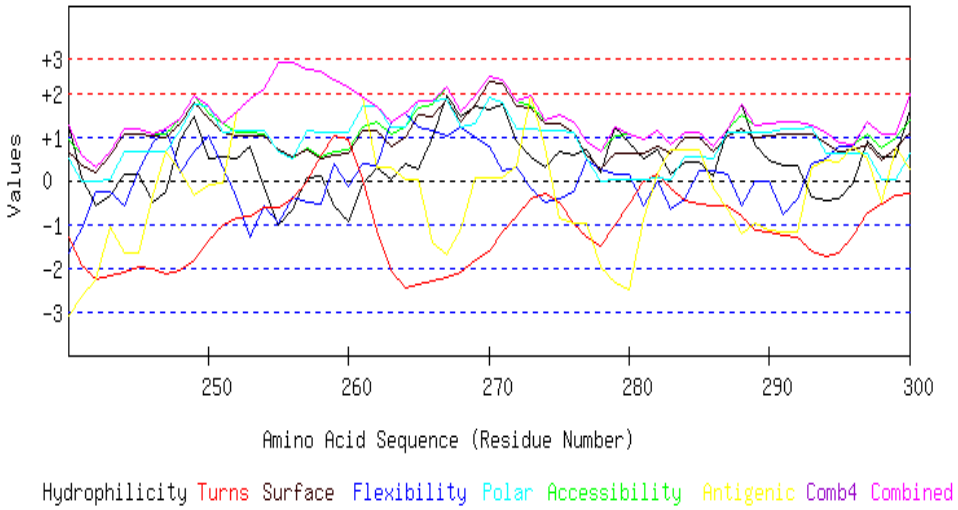
GRAPHICAL RESULT :: SEQ 121 to 180



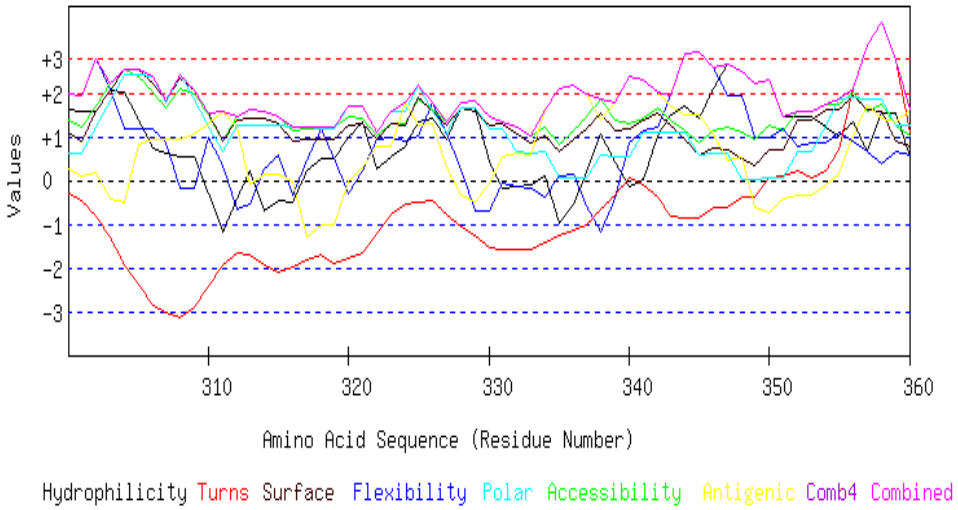
GRAPHICAL RESULT :: SEQ 181 to 240



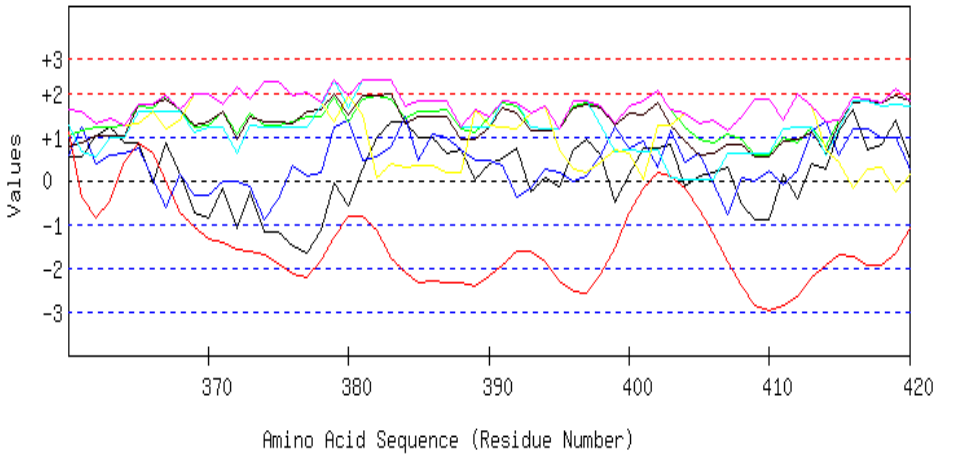
GRAPHICAL RESULT :: SEQ 241 to 300



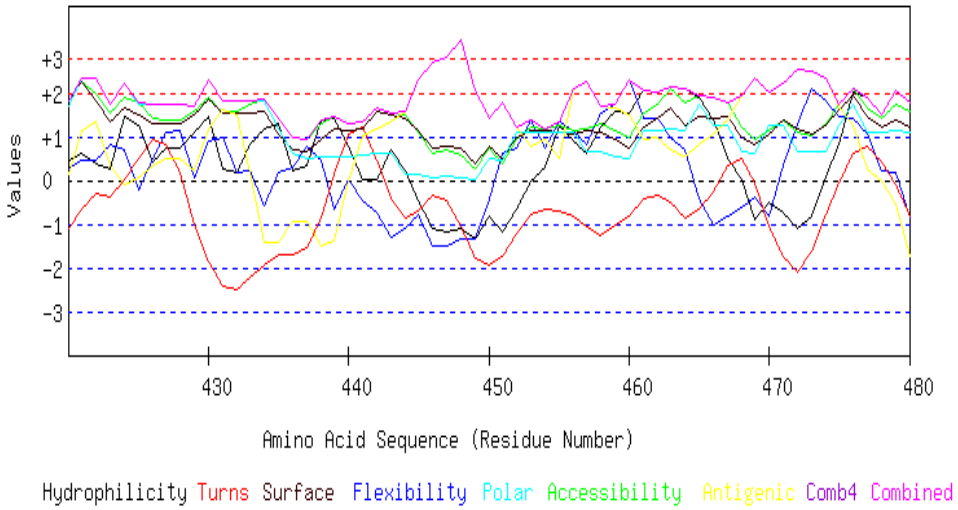
GRAPHICAL RESULT :: SEQ 301 to 360



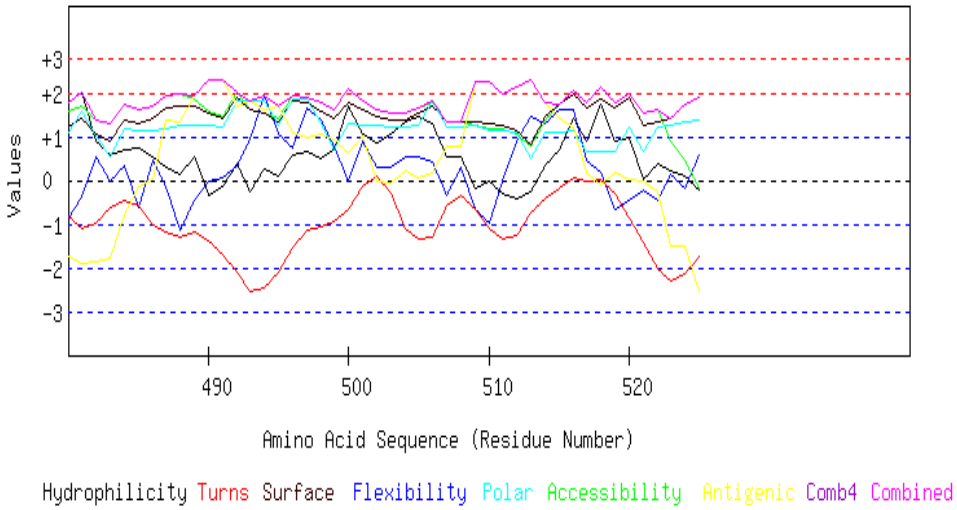
GRAPHICAL RESULT :: SEQ 361 to 420



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

VVQPADIDVPETPARPVLVVDFGAQYAQLIARRVREARVFSEVIPHTASIEEIRARQPVA
LVLSGGPASVYADGAPKLDPALLDLGVPVLGICYGFQAMAQALGGIVAHTGTREYGRTEL
KVLGGKLHSDLPEVQPVWMSHGDAVTAAPDGFDVVASSAGAPVAAFEAFDRRLAGVQYHP
EVMHTPHGQQVLSRFLHDFAGLGAQWTPANIANALIEQVRTQIGDGHAICGLSGGVDSAV
AAALVQRAIGDRLTCVFVDHGLLRAGERAQVQRDFVAATGANLVTVDAAETFLEALSGVS
APEGKRKIIGRQFIRAFEGAVRDVLDGKTAEFLVQGTLYPDVVESGGGSGTANIKSHHNV
GGLPDDLKFTLVEPLRLLFKDEVRAVGRELGLPEEIVARQPFPGPGLGIRIVGEVTAKRL
DTLRHADSIVREELTAAGLDNQIWQCPVVLLADVRSVGVQGDGRTYGHPIVLRPVSSEDA
MTADWTRVPYEVLERISTRITNEVAEVNRVVLDITSKPPATIEWE

Length=525

A.A. **Parameter Combined**

		Hydro	Flexi	Access	Turns	Surface	Polar	AntiPro	MAX	MIN	AVG
1	V	-0.035	-0.078	-0.401	-1.089	1.786	0.215	-1.288	1.786	-1.288	-0.127
2	V	0.098	-0.306	0.057	-1.071	1.467	0.154	-1.288	1.467	-1.288	-0.127
3	Q	0.730	0.329	0.786	-0.624	1.467	0.583	-0.287	1.467	-0.624	0.426
4	P	0.225	-0.258	1.103	-0.399	1.130	0.525	1.045	1.130	-0.399	0.482
5	A	1.091	-0.258	1.496	0.003	1.458	1.012	0.447	1.496	-0.258	0.750
6	D	1.091	0.317	1.496	-0.016	1.458	1.012	0.447	1.496	-0.016	0.829
7	I	0.844	0.269	1.412	0.080	1.358	0.989	0.504	1.412	0.080	0.779
8	D	1.205	0.952	1.496	-0.154	1.449	1.570	0.258	1.570	-0.154	0.968
9	V	1.401	0.413	1.692	-0.158	1.604	1.590	1.309	1.692	-0.158	1.121
10	P	0.901	1.323	1.664	-0.416	1.558	1.120	1.538	1.664	-0.416	1.098
11	E	1.540	1.323	1.804	-0.374	1.576	1.118	0.206	1.804	-0.374	1.028
12	T	1.173	0.652	1.963	-0.628	1.731	1.254	0.214	1.963	-0.628	0.908
13	P	1.540	-0.044	2.328	-0.661	2.014	1.271	-0.155	2.328	-0.661	0.899
14	A	1.173	-0.498	1.963	-1.000	1.731	1.254	0.214	1.963	-1.000	0.691
15	R	0.098	-0.595	1.552	-1.201	1.376	0.659	0.675	1.552	-1.201	0.367
16	P	-0.465	-0.869	1.234	-1.455	1.212	0.641	1.223	1.234	-1.455	0.217
17	V	-0.831	-1.402	0.870	-1.724	0.929	0.624	1.592	1.592	-1.724	0.008
18	L	-0.332	-0.679	1.141	-1.677	1.248	1.113	2.593	2.593	-1.677	0.487
19	V	-1.179	-0.474	0.646	-1.349	0.729	0.492	2.845	2.845	-1.349	0.244
20	V	-0.951	0.113	0.393	-0.818	0.410	0.473	2.625	2.625	-0.951	0.321
21	D	-0.585	-0.198	0.515	-0.361	0.419	0.472	1.027	1.027	-0.585	0.184
22	F	0.376	-0.737	0.926	-0.271	0.784	0.509	0.755	0.926	-0.737	0.334
23	G	0.490	-0.072	1.300	-0.605	1.030	0.526	0.498	1.300	-0.605	0.452
24	A	0.857	-0.903	1.421	-0.922	1.039	0.525	-1.101	1.421	-1.101	0.131
25	Q	0.604	-1.228	1.477	-1.140	1.093	0.078	-0.928	1.477	-1.228	-0.006
26	Y	0.604	-1.719	1.459	-1.219	1.148	0.079	-0.744	1.459	-1.719	-0.056

27 A	-0.262	-0.498	1.328	-1.410	1.175	0.081	-0.423	1.328	-1.410	-0.001
28 Q	-0.262	0.315	1.328	-1.729	1.175	0.081	-0.423	1.328	-1.729	0.069
29 L	-0.376	-0.272	1.431	-2.189	1.276	0.663	-0.587	1.431	-2.189	-0.008
30 I	0.010	0.746	1.608	-2.567	1.513	1.269	-0.920	1.608	-2.567	0.237
31 A	-0.357	1.646	1.487	-2.732	1.504	1.270	0.679	1.646	-2.732	0.499
32 R	-0.471	1.646	1.589	-2.812	1.604	1.853	0.514	1.853	-2.812	0.560
33 R	0.604	1.646	2.001	-2.750	1.959	2.447	0.053	2.447	-2.750	0.851
34 V	1.242	0.736	2.141	-2.654	1.977	2.445	-1.279	2.445	-2.654	0.658
35 R	1.375	0.658	2.571	-2.623	2.451	3.070	-0.269	3.070	-2.623	1.033
36 E	0.876	0.700	2.019	-2.561	1.968	2.447	0.320	2.447	-2.561	0.824
37 A	0.029	0.700	1.524	-2.387	1.449	1.826	0.572	1.826	-2.387	0.530
38 R	0.673	0.604	1.795	-1.928	1.613	1.845	0.143	1.845	-1.928	0.678
39 V	0.901	-0.534	1.692	-1.345	1.504	1.819	0.118	1.819	-1.345	0.594
40 F	0.174	-0.080	1.244	-0.782	1.130	1.221	0.733	1.244	-0.782	0.520
41 S	-0.465	0.185	1.103	-0.757	1.112	1.223	2.065	2.065	-0.757	0.638
42 E	-0.597	-0.180	0.917	-1.008	0.911	0.618	2.286	2.286	-1.008	0.421
43 V	-0.231	-0.755	1.197	-1.081	1.093	1.236	1.964	1.964	-1.081	0.489
44 I	0.680	0.197	1.459	-0.631	1.294	1.252	1.754	1.754	-0.631	0.858
45 P	0.402	0.197	1.309	0.115	1.139	1.232	0.584	1.309	0.115	0.711
46 H	0.319	0.413	1.132	0.899	0.929	0.652	0.770	1.132	0.319	0.731
47 T	0.048	0.898	1.113	0.783	0.920	0.652	0.503	1.113	0.048	0.702
48 A	1.046	0.083	1.580	0.214	1.303	1.250	0.155	1.580	0.083	0.805
49 S	1.407	0.896	1.664	-0.695	1.394	1.831	-0.091	1.831	-0.695	0.915
50 I	0.768	0.041	1.365	-1.616	1.203	1.213	-0.037	1.365	-1.616	0.419
51 E	0.705	1.179	1.599	-2.304	1.522	1.817	-0.079	1.817	-2.304	0.634
52 E	0.705	1.095	1.599	-2.675	1.522	1.817	-0.079	1.817	-2.675	0.569
53 I	0.560	0.878	1.879	-2.966	1.841	2.422	-0.239	2.422	-2.966	0.625
54 R	1.445	1.107	2.346	-2.745	2.233	2.463	-0.398	2.463	-2.745	0.922
55 A	1.084	0.293	2.262	-2.297	2.142	1.882	-0.151	2.262	-2.297	0.745
56 R	0.357	0.089	1.814	-1.738	1.768	1.284	0.464	1.814		

-1.738 0.577
57 Q 0.996 -0.821 1.954 -1.221 1.786 1.282 -0.868 1.954
-1.221 0.444
58 P 0.149 -1.516 1.440 -1.101 1.321 0.663 -0.432 1.440
-1.516 0.075
59 V -0.218 -1.019 1.318 -1.373 1.312 0.664 1.166 1.318
-1.373 0.264
60 A -1.065 -0.296 0.804 -1.821 0.847 0.045 1.602 1.602
-1.821 0.017
61 L -1.034 0.331 0.627 -1.930 0.629 0.023 1.599 1.599
-1.930 0.035
62 V -0.806 0.894 0.375 -1.783 0.310 0.004 1.379 1.379
-1.783 0.053
63 L -0.212 0.990 0.487 -1.258 0.273 0.002 0.791 0.990
-1.258 0.153
64 S -0.212 2.050 0.730 -0.780 0.547 0.021 2.021 2.050
-0.780 0.625
65 G 0.503 1.099 0.814 -0.585 0.537 0.016 0.576 1.099
-0.585 0.423
66 G 1.148 0.065 1.085 -0.423 0.701 0.034 0.147 1.148
-0.423 0.394
67 P 1.495 -0.562 1.047 -0.362 0.683 0.031 0.301 1.495
-0.562 0.376
68 A 0.964 -0.382 1.150 -0.338 0.765 0.030 0.473 1.150
-0.382 0.380
69 S 0.737 0.245 1.160 -0.463 0.811 0.030 -0.538 1.160
-0.538 0.283
70 V 1.009 -0.611 1.440 -0.465 1.175 0.519 -0.547 1.440
-0.611 0.360
71 Y 1.236 -0.156 1.188 -0.632 0.856 0.500 -0.766 1.236
-0.766 0.318
72 A 1.236 1.082 1.188 -0.459 0.856 0.500 -0.766 1.236
-0.766 0.520
73 D 0.958 0.878 1.281 -0.411 0.975 0.499 -0.706 1.281
-0.706 0.496
74 G 1.552 0.878 1.851 -0.465 1.622 1.092 -1.230 1.851
-1.230 0.757
75 A 1.091 0.610 1.515 -0.812 1.394 1.078 -1.127 1.515
-1.127 0.535
76 P 1.590 0.610 1.786 -0.898 1.713 1.567 -0.126 1.786
-0.898 0.892
77 K 1.091 0.047 1.758 -0.864 1.668 1.097 0.103 1.758
-0.864 0.700
78 L 0.863 -0.989 1.767 -0.476 1.713 1.097 -0.907 1.767
-0.989 0.438
79 D 0.149 -0.246 1.683 -0.181 1.722 1.102 0.538 1.722
-0.246 0.681
80 P -0.566 -0.989 1.356 -0.412 1.458 1.089 0.753 1.458
-0.989 0.384
81 A -0.294 -0.721 1.178 -0.711 1.139 0.983 0.679 1.178
-0.721 0.322
82 L -0.294 -0.817 1.178 -1.054 1.139 0.983 0.679 1.178
-1.054 0.259
83 L -0.566 -0.254 0.898 -1.086 0.774 0.494 0.688 0.898
-1.086 0.135
84 D -0.932 -0.146 0.533 -1.033 0.492 0.477 1.057 1.057
-1.033 0.064
85 L -0.932 -0.889 0.776 -0.935 0.765 0.496 2.287 2.287
-0.935 0.224

86 G	-0.585	-0.058	0.739	-1.125	0.747	0.492	2.440	2.440
-1.125	0.379							
87 V	-0.585	-1.009	0.739	-1.187	0.747	0.492	2.440	2.440
-1.187	0.234							
88 P	-0.857	-0.877	0.459	-1.406	0.382	0.003	2.450	2.450
-1.406	0.022							
89 V	-0.781	-1.642	0.403	-1.616	0.355	-0.001	2.336	2.336
-1.642	-0.135							
90 L	-1.053	-0.919	0.197	-1.798	0.310	0.017	2.958	2.958
-1.798	-0.041							
91 G	-0.939	-0.889	0.571	-1.808	0.556	0.035	2.702	2.702
-1.808	0.032							
92 I	-0.711	-1.025	0.318	-1.583	0.237	0.016	2.482	2.482
-1.583	-0.038							
93 C	-1.059	-0.701	0.375	-1.162	0.200	0.018	2.145	2.145
-1.162	-0.026							
94 Y	-0.098	-0.851	0.786	-0.803	0.565	0.055	1.873	1.873
-0.851	0.218							
95 G	-0.325	-0.444	0.795	-0.738	0.610	0.055	0.862	0.862
-0.738	0.116							
96 F	-0.085	-0.581	0.926	-0.841	0.674	0.071	0.486	0.926
-0.841	0.093							
97 Q	-0.041	-0.406	1.141	-1.275	0.765	0.053	-1.147	1.141
-1.275	-0.130							
98 A	0.459	-1.101	1.216	-1.660	0.902	0.076	-1.316	1.216
-1.660	-0.204							
99 M	0.231	-0.474	1.225	-1.932	0.948	0.076	-2.326	1.225
-2.326	-0.322							
100A	0.231	0.267	1.206	-1.984	1.002	0.077	-2.142	1.206
-2.142	-0.192							
101Q	0.212	-0.058	0.870	-1.895	0.583	0.035	-2.305	0.870
-2.305	-0.365							
102A	0.440	-0.645	0.860	-1.835	0.537	0.035	-1.295	0.860
-1.835	-0.272							
103L	0.199	-0.645	0.730	-1.950	0.474	0.019	-0.918	0.730
-1.950	-0.299							
104G	-0.167	-0.350	0.608	-2.114	0.465	0.021	0.681	0.681
-2.114	-0.122							
105G	-0.414	-0.486	0.281	-2.335	0.091	-0.021	-0.492	0.281
-2.335	-0.482							
106I	-0.414	-0.486	0.440	-2.015	0.264	0.598	0.785	0.785
-2.015	-0.118							
107V	0.496	0.329	0.720	-1.391	0.410	0.613	0.391	0.720
-1.391	0.224							
108A	0.496	1.239	0.720	-0.455	0.410	0.613	0.391	1.239
-0.455	0.488							
109H	0.465	1.814	0.926	0.260	0.610	0.633	0.431	1.814
0.260	0.734							
110T	1.236	1.317	1.496	0.350	1.103	1.256	0.109	1.496
0.109	0.981							
111G	1.963	1.453	1.945	-0.228	1.476	1.854	-0.506	1.963
-0.506	1.137							
112T	1.710	1.639	2.197	-0.904	1.713	1.873	0.836	2.197
-0.904	1.295							
113R	1.938	1.639	2.029	-1.552	1.494	1.253	0.569	2.029
-1.552	1.053							
114E	1.875	1.401	2.262	-1.822	1.813	1.858	0.527	2.262
-1.822	1.131							
115Y	1.843	0.622	2.468	-1.766	2.014	1.878	0.568	2.468

-1.766 1.090
116G 2.008 1.860 2.599 -1.767 2.224 2.458 0.501 2.599
-1.767 1.412
117R 1.160 1.137 2.085 -1.683 1.759 1.838 0.936 2.085
-1.683 1.033
118T 1.028 0.119 2.206 -1.775 2.032 1.833 1.028 2.206
-1.775 0.924
119E 0.914 0.255 1.832 -1.979 1.786 1.816 1.284 1.832
-1.979 0.844
120L -0.028 0.307 1.758 -2.259 1.841 1.821 1.719 1.841
-2.259 0.737
121K 0.067 1.343 1.318 -2.361 1.321 1.196 1.720 1.720
-2.361 0.658
122V 0.098 0.307 1.113 -2.390 1.121 1.176 1.680 1.680
-2.390 0.444
123L -0.035 0.493 1.234 -2.251 1.394 1.171 1.771 1.771
-2.251 0.540
124G -0.035 1.553 1.234 -2.162 1.394 1.171 1.771 1.771
-2.162 0.704
125G -0.262 1.465 0.945 -1.749 0.929 1.197 1.973 1.973
-1.749 0.643
126K 0.383 0.634 1.216 -1.078 1.093 1.215 1.545 1.545
-1.078 0.715
127L 1.597 0.161 1.571 0.154 1.403 1.699 1.101 1.699
0.154 1.098
128H 0.655 0.940 1.496 1.166 1.458 1.704 1.535 1.704
0.655 1.279
129S 0.427 0.754 1.748 1.758 1.777 1.723 1.755 1.777
0.427 1.420
130D 0.560 0.389 1.627 1.336 1.504 1.728 1.664 1.728
0.389 1.258
131L 0.907 0.209 1.589 0.503 1.485 1.724 1.817 1.817
0.209 1.177
132P 1.154 0.317 1.758 -0.511 1.686 1.147 1.713 1.758
-0.511 1.038
133E 0.876 -0.544 1.851 -0.907 1.804 1.146 1.773 1.851
-0.907 0.857
134V 0.010 -1.234 1.459 -1.068 1.476 0.658 2.371 2.371
-1.234 0.525
135Q -0.041 -0.282 1.561 -0.902 1.485 0.678 1.958 1.958
-0.902 0.637
136P -0.439 -0.683 1.309 -1.133 1.257 0.676 1.683 1.683
-1.133 0.382
137V -0.521 -0.414 1.132 -1.273 1.048 0.097 1.869 1.869
-1.273 0.277
138W -0.155 0.221 1.412 -1.101 1.230 0.715 1.548 1.548
-1.101 0.553
139M -0.174 0.724 1.075 -0.504 0.811 0.673 1.385 1.385
-0.504 0.570
140S 0.326 0.742 1.103 0.573 0.856 1.143 1.156 1.156
0.326 0.843
141H 0.692 0.377 1.225 1.242 0.866 1.141 -0.443 1.242
-0.443 0.729
142G 1.091 0.287 1.085 1.191 0.838 1.117 0.124 1.191
0.124 0.819
143D 1.685 -0.340 1.290 0.582 0.948 1.120 0.220 1.685
-0.340 0.786
144A 1.407 -0.520 1.141 -0.262 0.793 1.100 -0.950 1.407
-0.950 0.387

145V	1.407	0.019	0.982	-0.992	0.619	0.480	-2.228	1.407
-2.228	0.041							
146T	1.179	0.742	1.234	-1.127	0.938	0.499	-2.008	1.234
-2.008	0.208							
147A	1.179	0.077	1.234	-0.987	0.938	0.499	-2.008	1.234
-2.008	0.133							
148A	1.407	0.616	1.225	-0.513	0.893	0.499	-0.998	1.407
-0.998	0.447							
149P	1.059	0.519	1.281	0.083	0.856	0.502	-1.335	1.281
-1.335	0.424							
150D	1.363	0.065	1.356	0.525	1.020	0.971	-1.385	1.363
-1.385	0.559							
151G	0.996	-0.474	1.234	0.631	1.011	0.972	0.214	1.234
-0.474	0.655							
152F	0.629	-0.246	1.113	0.463	1.002	0.974	1.813	1.813
-0.246	0.821							
153D	0.629	0.784	0.870	-0.031	0.729	0.955	0.583	0.955
-0.031	0.645							
154V	0.408	0.245	0.748	-0.492	0.565	0.486	0.751	0.751
-0.492	0.387							
155V	0.459	0.968	0.907	-0.571	0.765	0.506	0.911	0.968
-0.571	0.564							
156A	1.173	1.064	0.973	-0.306	0.811	0.502	-0.350	1.173
-0.350	0.552							
157S	0.901	1.423	0.692	0.016	0.446	0.013	-0.341	1.423
-0.341	0.450							
158S	1.268	0.471	0.814	0.061	0.455	0.012	-1.940	1.268
-1.940	0.163							
159A	1.634	-0.384	1.178	-0.291	0.738	0.029	-2.309	1.634
-2.309	0.085							
160G	1.268	-0.384	1.057	-0.805	0.729	0.031	-0.710	1.268
-0.805	0.169							
161A	0.990	-1.186	0.907	-1.126	0.574	0.010	-1.880	0.990
-1.880	-0.244							
162P	0.711	-0.611	0.758	-1.340	0.419	-0.010	-3.050	0.758
-3.050	-0.446							
163V	-0.003	-0.969	0.692	-1.365	0.373	-0.005	-1.788	0.692
-1.788	-0.438							
164A	0.130	-1.047	1.029	-1.548	0.784	0.594	-1.815	1.029
-1.815	-0.268							
165A	0.130	-0.508	1.029	-1.580	0.784	0.594	-1.815	1.029
-1.815	-0.195							
166F	-0.585	0.305	0.720	-1.583	0.465	0.579	-1.784	0.720
-1.784	-0.269							
167E	0.281	1.293	1.113	-1.212	0.793	1.067	-2.381	1.293
-2.381	0.136							
168A	0.414	0.513	1.543	-0.882	1.267	1.691	-1.372	1.691
-1.372	0.453							
169F	0.547	0.513	1.973	-0.540	1.741	2.316	-0.363	2.316
-0.540	0.884							
170D	0.547	1.315	1.954	-0.682	1.795	2.317	-0.179	2.317
-0.682	1.010							
171R	0.187	0.680	1.627	-1.171	1.431	1.718	-1.163	1.718
-1.171	0.473							
172R	0.414	0.357	1.617	-1.813	1.385	1.718	-0.153	1.718
-1.813	0.504							
173L	0.762	-0.863	1.561	-2.186	1.422	1.715	0.185	1.715
-2.186	0.371							
174A	0.509	-0.568	1.617	-2.195	1.476	1.269	0.357	1.617

-2.195 0.352
175G 0.123 -0.210 1.440 -1.846 1.239 0.663 0.690 1.440
-1.846 0.300
176V -0.009 -0.262 1.169 -1.119 0.938 0.658 0.958 1.169
-1.119 0.333
177Q 0.705 -0.262 1.496 -0.293 1.203 0.672 0.743 1.496
-0.293 0.609
178Y 1.065 -0.867 1.823 0.512 1.567 1.272 1.727 1.823
-0.867 1.014
179H 0.471 -0.370 1.711 0.781 1.604 1.273 2.316 2.316
-0.370 1.112
180P 0.440 0.031 1.823 0.293 1.658 1.289 1.672 1.823
0.031 1.029
181E 0.193 0.031 1.655 -0.369 1.458 1.866 1.776 1.866
-0.369 0.944
182V 0.642 -0.454 1.599 -0.714 1.376 1.867 1.484 1.867
-0.714 0.829
183M 0.642 0.269 1.683 -0.365 1.476 1.266 1.437 1.683
-0.365 0.915
184H 0.642 0.874 1.599 0.624 1.376 1.867 1.484 1.867
0.624 1.209
185T 0.509 1.275 1.262 1.425 0.966 1.267 1.511 1.511
0.509 1.174
186P 1.122 0.688 1.711 1.707 1.349 1.308 1.086 1.711
0.688 1.282
187H 1.767 0.125 2.047 1.520 1.677 1.333 1.304 2.047
0.125 1.396
188G 1.401 0.890 1.767 0.739 1.494 0.715 1.625 1.767
0.715 1.233
189Q 0.490 1.076 1.487 -0.075 1.349 0.700 2.020 2.020
-0.075 1.007
190Q 0.768 0.411 1.393 -0.575 1.230 0.702 1.960 1.960
-0.575 0.841
191V 0.901 -0.284 1.664 -1.046 1.531 0.706 1.691 1.691
-1.046 0.738
192L -0.041 -0.098 1.608 -0.913 1.531 0.711 1.942 1.942
-0.913 0.677
193S -1.002 0.646 1.197 -0.930 1.166 0.674 2.214 2.214
-1.002 0.566
194R -1.249 -0.384 1.029 -0.602 0.966 1.251 2.318 2.318
-1.249 0.476
195F -0.382 -1.198 1.421 -0.130 1.294 1.738 1.720 1.738
-1.198 0.638
196L -0.382 -0.396 1.440 0.711 1.239 1.737 1.536 1.737
-0.396 0.841
197H -0.661 -0.396 1.290 1.201 1.084 1.717 0.366 1.717
-0.661 0.657
198D -0.566 0.141 0.851 1.298 0.565 1.092 0.368 1.298
-0.566 0.536
199F -0.566 -0.398 0.832 0.443 0.619 1.094 0.551 1.094
-0.566 0.368
200A 0.376 0.267 0.907 -0.541 0.565 1.088 0.117 1.088
-0.541 0.397
201G 0.376 -0.236 0.748 -1.503 0.392 0.468 -1.161 0.748
-1.503 -0.131
202L 0.123 -0.372 0.804 -1.824 0.446 0.022 -0.988 0.804
-1.824 -0.256
203G 0.073 0.191 0.889 -1.847 0.510 0.043 -1.217 0.889
-1.847 -0.194

204A	0.269	-0.436	1.085	-1.573	0.665	0.063	-0.166	1.085
-1.573	-0.013							
205Q	0.041	0.173	1.337	-1.250	0.984	0.082	0.053	1.337
-1.250	0.203							
206W	0.756	-0.643	1.421	-0.915	0.975	0.076	-1.392	1.421
-1.392	0.040							
207T	0.838	-0.140	1.730	-0.278	1.330	0.117	-1.505	1.730
-1.505	0.299							
208P	0.199	-0.021	1.589	0.123	1.312	0.119	-0.173	1.589
-0.173	0.450							
209A	-0.047	-0.380	1.262	0.362	0.938	0.076	-1.347	1.262
-1.347	0.124							
210N	1.028	-0.585	1.543	0.547	1.230	0.092	-1.482	1.543
-1.482	0.339							
211I	0.832	-1.518	1.346	0.428	1.075	0.072	-2.533	1.346
-2.533	-0.043							
212A	0.117	-0.619	1.019	0.278	0.811	0.058	-2.318	1.019
-2.318	-0.093							
213N	-0.521	-0.128	0.879	0.018	0.793	0.060	-0.986	0.879
-0.986	0.016							
214A	-0.471	-0.833	0.907	-0.792	0.847	0.619	-0.899	0.907
-0.899	-0.089							
215L	0.414	-0.019	1.375	-1.521	1.239	0.660	-1.058	1.375
-1.521	0.156							
216I	0.048	0.676	1.253	-2.018	1.230	0.661	0.541	1.253
-2.018	0.342							
217E	-0.129	1.491	1.384	-2.269	1.394	1.245	0.653	1.491
-2.269	0.538							
218Q	0.067	0.592	1.580	-1.942	1.549	1.265	1.704	1.704
-1.942	0.688							
219V	1.028	0.728	1.991	-1.650	1.914	1.302	1.432	1.991
-1.650	0.964							
220R	1.028	1.363	1.991	-1.489	1.914	1.302	1.432	1.991
-1.489	1.077							
221T	0.895	1.177	1.655	-1.395	1.504	0.703	1.459	1.655
-1.395	0.857							
222Q	1.148	0.776	1.599	-1.250	1.449	1.149	1.287	1.599
-1.250	0.880							
223I	1.742	0.285	1.711	-1.083	1.412	1.148	0.698	1.742
-1.083	0.845							
224G	1.609	0.285	1.440	-0.367	1.112	1.143	0.966	1.609
-0.367	0.884							
225D	1.413	-0.306	1.244	0.223	0.957	1.123	-0.084	1.413
-0.306	0.653							
226G	0.528	-0.218	0.776	0.582	0.565	1.082	0.074	1.082
-0.218	0.484							
227H	1.122	-1.049	0.702	0.474	0.492	1.098	0.375	1.122
-1.049	0.459							
228A	1.122	-0.284	0.702	-0.092	0.492	1.098	0.375	1.122
-0.284	0.487							
229I	-0.092	0.343	0.346	-0.820	0.182	0.615	0.819	0.819
-0.820	0.199							
230C	-0.041	1.295	0.505	-0.891	0.382	0.635	0.978	1.295
-0.891	0.409							
231G	0.187	1.163	0.337	-0.958	0.164	0.015	0.711	1.163
-0.958	0.231							
232L	0.414	1.074	0.328	-0.714	0.118	0.015	1.721	1.721
-0.714	0.422							
233S	0.686	2.134	0.346	-0.658	0.127	0.015	1.988	2.134

-0.658 0.663
234G 1.230 1.279 0.832 -0.647 0.537 0.486 1.357 1.357
-0.647 0.725
235G 1.280 0.556 0.991 -0.448 0.738 0.506 1.517 1.517
-0.448 0.734
236V 1.995 -0.072 1.075 -0.006 0.729 0.500 0.072 1.995
-0.072 0.613
237D 1.350 0.025 0.804 0.247 0.565 0.482 0.501 1.350
0.025 0.568
238S 1.122 -0.514 0.814 0.157 0.610 0.482 -0.510 1.122
-0.514 0.309
239A 0.895 -1.574 0.823 -0.520 0.656 0.482 -1.520 0.895
-1.574 -0.108
240V 1.261 -1.670 0.945 -1.308 0.665 0.480 -3.119 1.261
-3.119 -0.392
241A 0.048 -1.083 0.589 -1.954 0.355 -0.003 -2.675 0.589
-2.675 -0.675
242A -0.597 -0.270 0.318 -2.249 0.191 -0.022 -2.246 0.318
-2.249 -0.696
243A -0.351 -0.270 0.646 -2.178 0.565 0.021 -1.073 0.646
-2.178 -0.377
244L 0.149 -0.595 1.197 -2.103 1.048 0.644 -1.662 1.197
-2.103 -0.189
245V 0.149 0.237 1.197 -1.961 1.048 0.644 -1.662 1.197
-1.961 -0.050
246Q -0.490 0.872 1.057 -2.010 1.030 0.646 -0.331 1.057
-2.010 0.111
247R -0.262 1.195 1.047 -2.144 0.984 0.646 0.680 1.195
-2.144 0.306
248A 0.952 0.177 1.403 -2.072 1.294 1.129 0.236 1.403
-2.072 0.445
249I 1.451 0.668 1.954 -1.818 1.777 1.752 -0.354 1.954
-1.818 0.776
250G 0.490 1.028 1.543 -1.397 1.412 1.715 -0.082 1.715
-1.397 0.673
251D 0.553 0.305 1.309 -1.014 1.093 1.111 -0.040 1.309
-1.014 0.474
252R 0.509 -0.408 1.094 -0.843 1.002 1.128 1.592 1.592
-0.843 0.582
253L 0.781 -1.318 1.113 -0.814 1.011 1.128 1.859 1.859
-1.318 0.537
254T -0.161 -0.574 1.057 -0.605 1.011 1.132 2.110 2.110
-0.605 0.567
255C -1.027 -0.975 0.664 -0.637 0.683 0.645 2.708 2.708
-1.027 0.294
256V -0.661 -0.384 0.505 -0.404 0.528 0.509 2.699 2.699
-0.661 0.399
257F 0.054 -0.492 0.748 -0.010 0.692 1.124 2.532 2.532
-0.492 0.664
258V 0.085 -0.522 0.543 0.562 0.492 1.104 2.491 2.491
-0.522 0.679
259D -0.585 0.387 0.674 1.032 0.592 1.091 2.304 2.304
-0.585 0.785
260H -0.932 -0.152 0.711 0.956 0.610 1.095 2.150 2.150
-0.932 0.634
261G -0.085 0.385 1.206 0.005 1.130 1.716 1.898 1.898
-0.085 0.894
262L 0.281 0.333 1.328 -1.150 1.139 1.714 0.299 1.714
-1.150 0.564

263L	0.010	1.351	1.047	-2.042	0.774	1.225	0.309	1.351
-2.042	0.382							
264R	0.370	1.555	1.216	-2.442	0.966	1.205	0.015	1.555
-2.442	0.412							
265A	0.275	1.233	1.655	-2.386	1.485	1.830	0.014	1.830
-2.386	0.586							
266G	0.990	1.137	1.739	-2.317	1.476	1.824	-1.431	1.824
-2.317	0.488							
267E	1.951	1.000	2.150	-2.223	1.841	1.861	-1.703	2.150
-2.223	0.697							
268R	1.451	1.239	1.599	-2.114	1.358	1.238	-1.113	1.599
-2.114	0.522							
269A	1.698	0.964	1.926	-1.813	1.731	1.280	0.060	1.926
-1.813	0.835							
270Q	1.603	0.790	2.365	-1.603	2.251	1.905	0.059	2.365
-1.603	1.053							
271V	1.742	0.203	2.309	-1.173	2.205	1.794	0.076	2.309
-1.173	1.022							
272Q	0.895	0.299	1.814	-0.824	1.686	1.174	0.328	1.814
-0.824	0.767							
273R	0.528	-0.192	1.692	-0.419	1.677	1.176	1.927	1.927
-0.419	0.913							
274D	0.281	-0.514	1.365	-0.309	1.303	1.133	0.754	1.365
-0.514	0.573							
275F	0.648	-0.426	1.487	-0.487	1.312	1.132	-0.845	1.487
-0.845	0.403							
276V	0.598	-0.252	1.356	-0.976	1.093	1.109	-0.968	1.356
-0.976	0.280							
277A	0.692	0.453	0.917	-1.299	0.574	0.484	-0.966	0.917
-1.299	0.122							
278A	0.193	0.249	0.646	-1.494	0.255	-0.004	-1.968	0.646
-1.968	-0.303							
279T	1.217	0.153	1.010	-1.010	0.610	0.032	-2.332	1.217
-2.332	-0.046							
280G	0.869	0.153	1.047	-0.528	0.629	0.036	-2.486	1.047
-2.486	-0.040							
281A	0.503	-0.570	0.926	-0.040	0.619	0.037	-0.887	0.926
-0.887	0.084							
282N	0.699	-0.032	1.122	0.120	0.774	0.057	0.164	1.122
-0.032	0.415							
283L	0.136	-0.641	0.804	-0.198	0.610	0.039	0.712	0.804
-0.641	0.209							
284V	0.408	-0.436	1.085	-0.458	0.975	0.528	0.703	1.085
-0.458	0.401							
285T	0.408	0.235	1.085	-0.542	0.975	0.528	0.703	1.085
-0.542	0.485							
286V	0.098	0.235	0.786	-0.571	0.665	0.487	-0.194	0.786
-0.571	0.215							
287D	1.173	0.157	1.197	-0.583	1.020	1.081	-0.655	1.197
-0.655	0.484							
288A	1.736	-0.587	1.515	-0.800	1.185	1.100	-1.203	1.736
-1.203	0.421							
289A	0.825	-0.011	1.253	-1.158	0.984	1.084	-0.993	1.253
-1.158	0.283							
290E	0.477	-0.011	1.290	-1.196	1.002	1.088	-1.147	1.290
-1.196	0.215							
291T	0.338	-0.791	1.346	-1.263	1.048	1.199	-1.164	1.346
-1.263	0.102							
292F	0.338	-0.426	1.346	-1.305	1.048	1.199	-1.164	1.346

-1.305 0.148
293L -0.376 0.375 1.262 -1.638 1.057 1.204 0.281 1.262
-1.638 0.309
294E -0.458 0.483 1.085 -1.736 0.847 0.624 0.467 1.085
-1.736 0.188
295A -0.427 0.764 0.879 -1.656 0.647 0.604 0.427 0.879
-1.656 0.177
296L -0.079 0.764 0.823 -1.280 0.683 0.602 0.764 0.823
-1.280 0.325
297S 0.914 1.327 1.057 -0.751 0.829 0.617 0.489 1.327
-0.751 0.640
298G 0.553 1.046 0.730 -0.522 0.465 0.017 -0.495 1.046
-0.522 0.256
299V 0.553 1.046 0.973 -0.333 0.738 0.036 0.735 1.046
-0.333 0.535
300S 1.628 1.974 1.384 -0.314 1.093 0.630 0.274 1.974
-0.314 0.953
301A 1.578 1.932 1.225 -0.471 0.893 0.610 0.114 1.932
-0.471 0.840
302P 1.578 2.764 1.683 -0.834 1.576 1.205 0.179 2.764
-0.834 1.164
303E 2.077 2.080 2.234 -1.298 2.060 1.828 -0.410 2.234
-1.298 1.224
304G 2.026 1.181 2.533 -1.957 2.543 2.402 -0.505 2.543
-1.957 1.175
305K 1.388 1.181 2.393 -2.384 2.524 2.404 0.827 2.524
-2.384 1.190
306R 0.749 1.163 2.010 -2.852 2.233 2.387 0.928 2.387
-2.852 0.945
307K 0.617 0.840 1.674 -3.038 1.823 1.787 0.955 1.823
-3.038 0.665
308I 0.522 -0.166 2.113 -3.147 2.342 2.412 0.954 2.412
-3.147 0.718
309I 0.541 -0.166 1.991 -2.901 2.078 1.860 1.052 2.078
-2.901 0.636
310G -0.307 0.972 1.496 -2.414 1.558 1.239 1.304 1.558
-2.414 0.550
311R -1.173 0.345 0.907 -1.937 0.902 0.647 1.561 1.561
-1.937 0.179
312Q -0.401 -0.643 1.477 -1.651 1.394 1.269 1.238 1.477
-1.651 0.383
313F 0.237 -0.558 1.617 -1.720 1.412 1.268 -0.094 1.617
-1.720 0.309
314I -0.705 0.243 1.561 -1.955 1.412 1.272 0.157 1.561
-1.955 0.284
315R -0.477 0.568 1.459 -2.082 1.303 1.247 0.132 1.459
-2.082 0.307
316A -0.496 -0.342 1.122 -1.962 0.884 1.204 -0.031 1.204
-1.962 0.054
317F 0.218 0.471 1.188 -1.819 0.929 1.200 -1.292 1.200
-1.819 0.128
318E 0.490 1.185 1.206 -1.712 0.938 1.200 -1.025 1.206
-1.712 0.326
319G 0.490 0.513 1.206 -1.884 0.938 1.200 -1.025 1.206
-1.884 0.206
320A 0.990 -0.318 1.477 -1.779 1.257 1.689 -0.024 1.689
-1.779 0.470
321V 1.337 0.221 1.421 -1.643 1.294 1.686 0.313 1.686
-1.643 0.661

322R	0.263	0.944	1.010	-1.233	0.938	1.092	0.775	1.092
-1.233	0.541							
323D	0.534	0.962	1.290	-0.783	1.303	1.581	0.765	1.581
-0.783	0.808							
324V	0.762	0.914	1.281	-0.540	1.257	1.581	1.776	1.776
-0.540	1.004							
325L	1.356	1.010	1.851	-0.493	1.905	2.174	1.252	2.174
-0.493	1.294							
326D	1.420	1.790	1.617	-0.466	1.586	1.569	1.294	1.790
-0.466	1.258							
327G	0.920	1.076	1.346	-0.780	1.267	1.080	0.293	1.346
-0.780	0.743							
328K	1.647	0.245	1.795	-1.072	1.640	1.678	-0.323	1.795
-1.072	0.802							
329T	1.647	-0.683	1.814	-1.257	1.586	1.677	-0.506	1.814
-1.257	0.611							
330A	0.433	-0.683	1.459	-1.530	1.276	1.194	-0.062	1.459
-1.530	0.298							
331E	-0.161	-0.056	1.346	-1.584	1.312	1.195	0.526	1.346
-1.584	0.368							
332F	-0.142	-0.140	1.225	-1.563	1.048	0.643	0.624	1.225
-1.563	0.242							
333L	-0.111	-0.170	1.019	-1.600	0.847	0.623	0.584	1.019
-1.600	0.170							
334V	0.085	-0.372	1.216	-1.413	1.002	0.643	1.635	1.635
-1.413	0.399							
335Q	-0.989	0.083	0.804	-1.249	0.647	0.049	2.096	2.096
-1.249	0.206							
336G	-0.528	0.131	1.122	-1.138	0.929	0.064	2.177	2.177
-1.138	0.394							
337T	0.187	-0.593	1.449	-1.015	1.194	0.077	1.962	1.962
-1.015	0.466							
338L	1.053	-1.180	1.842	-0.672	1.522	0.565	1.364	1.842
-1.180	0.642							
339Y	0.440	-0.400	1.393	-0.334	1.139	0.524	1.790	1.790
-0.400	0.650							
340P	-0.155	0.862	1.281	0.065	1.175	0.526	2.378	2.378
-0.155	0.876							
341D	0.010	1.131	1.412	-0.088	1.385	1.105	2.311	2.311
-0.088	1.038							
342V	1.002	1.219	1.646	-0.367	1.531	1.120	2.036	2.036
-0.367	1.169							
343V	1.483	1.942	1.384	-0.805	1.248	1.101	1.704	1.942
-0.805	1.151							
344E	1.710	2.894	1.132	-0.856	0.929	1.082	1.484	2.894
-0.856	1.196							
345S	1.438	2.946	0.851	-0.863	0.565	0.593	1.494	2.946
-0.863	1.003							
346G	2.083	2.581	1.122	-0.620	0.729	0.611	1.065	2.581
-0.620	1.082							
347G	2.678	1.954	1.234	-0.624	0.692	0.610	0.476	2.678
-0.624	1.003							
348G	2.513	1.936	1.103	-0.382	0.483	0.030	0.543	2.513
-0.382	0.890							
349S	2.235	0.984	0.954	-0.385	0.328	0.010	-0.627	2.235
-0.627	0.500							
350G	2.317	0.960	1.262	0.040	0.683	0.050	-0.740	2.317
-0.740	0.653							
351T	1.451	1.189	1.132	0.083	0.711	0.052	-0.418	1.451

-0.418 0.600
352A 1.451 0.788 1.589 0.218 1.394 0.647 -0.354 1.589
-0.354 0.819
353N 1.451 0.878 1.589 0.067 1.394 0.647 -0.354 1.589
-0.354 0.810
354I 1.224 0.878 1.758 0.224 1.613 1.267 -0.087 1.758
-0.087 0.982
355K 1.028 1.107 1.720 0.713 1.631 1.867 0.140 1.867
0.140 1.172
356S 1.337 0.902 2.019 2.109 1.941 1.907 1.037 2.109
0.902 1.608
357H 0.661 0.674 1.599 3.117 1.622 1.868 1.739 3.117
0.661 1.611
358H 1.527 0.379 1.730 3.603 1.595 1.866 1.417 3.603
0.379 1.731
359N 1.527 0.648 1.272 2.745 0.911 1.272 1.353 2.745
0.648 1.390
360V 0.534 0.578 1.038 1.088 0.765 1.257 1.628 1.628
0.534 0.984
361G 0.534 1.213 1.122 -0.365 0.866 0.656 1.580 1.580
-0.365 0.801
362G 1.034 0.381 1.234 -0.864 1.011 0.525 1.304 1.304
-0.864 0.661
363L 1.224 0.586 1.206 -0.461 1.020 0.974 1.408 1.408
-0.461 0.851
364P 0.876 0.616 1.244 0.403 1.039 0.977 1.254 1.254
0.403 0.916
365D 0.876 0.748 1.702 0.875 1.722 1.572 1.319 1.722
0.748 1.259
366D -0.066 0.005 1.646 0.630 1.722 1.576 1.570 1.722
-0.066 1.012
367L 0.844 -0.631 1.926 -0.015 1.868 1.591 1.176 1.926
-0.631 0.966
368K 0.130 0.149 1.599 -0.720 1.604 1.577 1.391 1.604
-0.720 0.818
369F -0.736 -0.324 1.206 -1.077 1.276 1.090 1.988 1.988
-1.077 0.489
370T -0.876 -0.354 1.262 -1.353 1.321 1.201 1.971 1.971
-1.353 0.453
371L -0.161 -0.032 1.589 -1.423 1.586 1.214 1.756 1.756
-1.423 0.647
372V -1.103 -0.032 1.057 -1.571 0.957 0.625 2.126 2.126
-1.571 0.294
373E -0.256 -0.140 1.552 -1.606 1.476 1.245 1.874 1.874
-1.606 0.592
374P -1.166 -0.889 1.272 -1.705 1.330 1.231 2.268 2.268
-1.705 0.334
375L -1.166 -0.416 1.272 -1.900 1.330 1.231 2.268 2.268
-1.900 0.374
376R -1.514 0.327 1.328 -2.126 1.294 1.233 1.931 1.931
-2.126 0.353
377L -1.647 0.089 1.449 -2.202 1.567 1.229 2.022 2.022
-2.202 0.358
378L -1.147 0.197 1.477 -1.820 1.613 1.699 1.793 1.793
-1.820 0.544
379F -0.073 1.215 1.889 -1.313 1.968 2.293 1.332 2.293
-1.313 1.044
380K -0.572 1.389 1.337 -0.825 1.485 1.670 1.921 1.921
-0.825 0.915

381D	0.275	0.461	1.851	-0.832	1.950	2.289	1.486	2.289
-0.832	1.069							
382E	0.990	0.550	1.935	-1.149	1.941	2.283	0.040	2.283
-1.149	0.941							
383V	1.337	0.788	1.879	-1.785	1.977	2.281	0.378	2.281
-1.785	0.979							
384R	1.337	1.459	1.421	-2.091	1.294	1.686	0.313	1.686
-2.091	0.774							
385A	0.971	0.441	1.580	-2.357	1.449	1.822	0.321	1.822
-2.357	0.604							
386V	0.971	1.068	1.580	-2.288	1.449	1.822	0.321	1.822
-2.288	0.703							
387G	0.623	0.960	1.617	-2.324	1.467	1.826	0.168	1.826
-2.324	0.620							
388R	0.718	0.692	1.178	-2.344	0.948	1.201	0.169	1.201
-2.344	0.366							
389E	0.003	0.453	1.094	-2.402	0.957	1.206	1.614	1.614
-2.402	0.418							
390L	0.370	0.453	1.459	-2.176	1.239	1.224	1.245	1.459
-2.176	0.545							
391G	0.503	0.333	1.795	-1.939	1.649	1.823	1.219	1.823
-1.939	0.769							
392L	0.730	-0.390	1.692	-1.617	1.540	1.798	1.193	1.798
-1.617	0.707							
393P	-0.269	-0.186	1.225	-1.630	1.157	1.201	1.541	1.541
-1.630	0.434							
394E	0.079	0.269	1.188	-1.852	1.139	1.197	1.695	1.695
-1.852	0.531							
395E	-0.148	0.185	1.197	-2.287	1.185	1.197	0.684	1.197
-2.287	0.287							
396I	0.699	-0.032	1.711	-2.546	1.649	1.816	0.249	1.816
-2.546	0.507							
397V	0.945	0.119	1.795	-2.570	1.750	1.839	0.192	1.839
-2.570	0.581							
398A	0.585	0.574	1.711	-2.146	1.658	1.259	0.438	1.711
-2.146	0.583							
399R	-0.490	1.201	1.318	-1.526	1.248	0.663	0.716	1.318
-1.526	0.447							
400Q	0.149	0.746	1.702	-0.727	1.540	0.681	0.614	1.702
-0.727	0.672							
401P	0.743	0.882	1.814	-0.175	1.504	0.679	0.025	1.814
-0.175	0.782							
402F	0.743	0.319	2.057	0.164	1.777	0.698	1.256	2.057
0.164	1.002							
403P	0.838	1.121	1.617	0.116	1.257	0.073	1.257	1.617
0.073	0.897							
404G	-0.123	0.437	1.206	-0.198	0.893	0.036	1.528	1.528
-0.198	0.540							
405P	0.104	0.624	0.954	-0.670	0.574	0.017	1.309	1.309
-0.670	0.416							
406G	0.180	-0.060	0.879	-1.239	0.601	0.015	1.379	1.379
-1.239	0.251							
407L	0.313	-0.783	1.066	-1.877	0.802	0.621	1.158	1.158
-1.877	0.186							
408G	-0.553	0.049	0.935	-2.425	0.829	0.623	1.480	1.480
-2.425	0.134							
409I	-0.920	-0.003	0.571	-2.854	0.547	0.605	1.849	1.849
-2.854	-0.029							
410R	-0.920	0.225	0.571	-2.994	0.547	0.605	1.849	1.849

-2.994 -0.017
411I 0.155 -0.098 0.982 -2.872 0.902 1.199 1.387 1.387
-2.872 0.237
412V -0.439 0.227 0.870 -2.645 0.938 1.201 1.976 1.976
-2.645 0.304
413G 0.395 1.155 1.206 -2.232 1.112 1.219 1.695 1.695
-2.232 0.650
414E 0.263 1.341 0.776 -1.948 0.638 0.594 0.686 1.341
-1.948 0.336
415V 1.129 0.562 1.365 -1.716 1.294 1.187 0.429 1.365
-1.716 0.607
416T 1.628 1.197 1.917 -1.726 1.777 1.810 -0.161 1.917
-1.726 0.920
417A 0.686 1.197 1.842 -1.942 1.832 1.816 0.274 1.842
-1.942 0.815
418K 0.825 0.992 1.786 -1.952 1.786 1.705 0.291 1.786
-1.952 0.776
419R 1.388 0.974 2.103 -1.658 1.950 1.723 -0.257 2.103
-1.658 0.889
420L 0.477 0.251 1.823 -1.109 1.804 1.709 0.138 1.823
-1.109 0.728
421D 0.610 0.455 2.253 -0.666 2.278 2.333 1.147 2.333
-0.666 1.202
422T 0.383 0.455 1.963 -0.320 1.813 2.359 1.349 2.359
-0.320 1.143
423L 0.250 0.820 1.533 -0.396 1.339 1.734 0.340 1.734
-0.396 0.803
424R 1.464 0.700 1.889 0.014 1.649 2.218 -0.104 2.218
-0.104 1.118
425H 1.242 -0.210 1.767 0.498 1.485 1.749 0.065 1.767
-0.210 0.942
426A 0.408 0.513 1.431 0.930 1.312 1.731 0.346 1.731
0.346 0.953
427D 0.756 1.089 1.393 0.836 1.294 1.727 0.499 1.727
0.499 1.085
428S 0.756 1.125 1.393 0.164 1.294 1.727 0.499 1.727
0.164 0.994
429I 1.116 0.065 1.561 -1.025 1.485 1.706 0.206 1.706
-1.025 0.731
430V 1.476 0.880 1.889 -1.865 1.850 2.306 1.190 2.306
-1.865 1.104
431R 0.263 0.976 1.533 -2.434 1.540 1.822 1.634 1.822
-2.434 0.762
432E 0.180 0.163 1.580 -2.490 1.540 1.822 1.514 1.822
-2.490 0.616
433E 0.819 0.215 1.720 -2.208 1.558 1.821 0.183 1.821
-2.208 0.587
434L 1.186 -0.564 1.842 -1.923 1.567 1.819 -1.416 1.842
-1.923 0.359
435T 1.280 0.179 1.403 -1.711 1.048 1.194 -1.415 1.403
-1.711 0.283
436A 0.206 0.297 0.991 -1.705 0.692 0.600 -0.954 0.991
-1.705 0.018
437A 0.345 0.788 0.935 -1.549 0.647 0.490 -0.936 0.935
-1.549 0.103
438G 1.369 0.463 1.318 -0.870 0.948 0.525 -1.484 1.369
-1.484 0.324
439L 1.420 -0.667 1.449 0.128 1.166 0.547 -1.362 1.449
-1.362 0.383

440D	0.781	0.029	1.309	1.075	1.148	0.549	-0.030	1.309
-0.030	0.694							
441N	0.016	-0.474	1.328	1.231	1.166	0.574	1.002	1.328
-0.474	0.692							
442Q	0.035	-0.725	1.664	0.473	1.586	0.617	1.165	1.664
-0.725	0.688							
443I	0.705	-1.312	1.533	-0.438	1.485	0.629	1.353	1.533
-1.312	0.565							
444W	0.206	-1.083	1.505	-0.845	1.440	0.159	1.582	1.582
-1.083	0.423							
445Q	-0.471	-0.785	1.085	-0.692	1.121	0.120	2.283	2.283
-0.785	0.380							
446C	-1.084	-1.480	0.636	-0.331	0.738	0.079	2.709	2.709
-1.480	0.181							
447P	-1.160	-1.516	0.692	-0.447	0.765	0.083	2.822	2.822
-1.516	0.177							
448V	-1.109	-1.336	0.589	-1.057	0.756	0.063	3.235	3.235
-1.336	0.163							
449V	-1.356	-1.336	0.262	-1.771	0.382	0.021	2.061	2.061
-1.771	-0.248							
450L	-0.812	-0.426	0.748	-1.933	0.793	0.492	1.430	1.430
-1.933	0.042							
451L	-1.179	0.634	0.384	-1.740	0.510	0.474	1.799	1.799
-1.740	0.126							
452A	-0.680	0.742	0.935	-1.236	0.993	1.097	1.209	1.209
-1.236	0.437							
453D	-0.035	1.369	1.206	-0.770	1.157	1.116	0.780	1.369
-0.770	0.689							
454V	0.313	0.734	1.169	-0.652	1.139	1.112	0.934	1.169
-0.652	0.678							
455R	1.255	1.321	1.244	-0.685	1.084	1.107	0.499	1.321
-0.685	0.832							
456S	0.888	1.135	1.122	-0.831	1.075	1.108	2.098	2.098
-0.831	0.942							
457V	0.636	0.818	1.178	-1.064	1.130	0.662	2.271	2.271
-1.064	0.804							
458G	1.230	1.541	1.290	-1.252	1.093	0.660	1.682	1.682
-1.252	0.892							
459V	1.597	1.728	1.132	-1.020	0.938	0.524	1.674	1.728
-1.020	0.939							
460Q	1.546	2.315	0.973	-0.815	0.738	0.504	1.514	2.315
-0.815	0.968							
461G	2.045	1.417	1.524	-0.412	1.221	1.127	0.925	2.045
-0.412	1.121							
462D	2.014	1.417	1.730	-0.325	1.422	1.147	0.965	2.014
-0.325	1.196							
463G	2.128	0.968	2.103	-0.517	1.668	1.165	0.709	2.128
-0.517	1.175							
464R	2.109	0.700	1.767	-0.879	1.248	1.123	0.546	2.109
-0.879	0.945							
465T	1.881	-0.438	1.935	-0.663	1.467	1.743	0.813	1.935
-0.663	0.962							
466Y	1.382	-1.025	1.907	-0.248	1.422	1.273	1.042	1.907
-1.025	0.822							
467G	0.515	-0.823	1.776	0.332	1.449	1.274	1.363	1.776
-0.823	0.841							
468H	0.016	-0.637	1.225	0.519	0.966	0.651	1.953	1.953
-0.637	0.670							
469P	-0.894	-0.368	0.945	-0.057	0.820	0.637	2.347	2.347

-0.894 0.490
470I -0.509 -0.823 1.122 -1.066 1.057 1.242 2.014 2.014
-1.066 0.434
471V -0.736 0.357 1.375 -1.746 1.376 1.261 2.234 2.234
-1.746 0.589
472L -1.103 1.309 1.094 -2.105 1.194 0.643 2.555 2.555
-2.105 0.512
473R -0.825 2.088 1.001 -1.632 1.075 0.644 2.495 2.495
-1.632 0.692
474P 0.092 1.814 1.290 -0.785 1.248 0.662 2.333 2.333
-0.785 0.951
475V 0.819 1.455 1.739 -0.061 1.622 1.260 1.718 1.739
-0.061 1.222
476S 2.033 1.437 2.094 0.603 1.932 1.744 1.274 2.094
0.603 1.588
477S 1.900 1.072 1.664 0.779 1.458 1.119 0.265 1.900
0.265 1.180
478E 1.502 0.217 1.412 0.414 1.230 1.117 -0.010 1.502
-0.010 0.840
479D 2.064 0.181 1.730 -0.103 1.394 1.136 -0.558 2.064
-0.558 0.835
480A 1.786 -0.861 1.580 -0.821 1.239 1.116 -1.728 1.786
-1.728 0.330
481M 2.008 -0.370 1.702 -1.089 1.403 1.584 -1.897 2.008
-1.897 0.477
482T 0.882 0.558 1.393 -0.965 1.057 1.010 -1.849 1.393
-1.849 0.298
483A 0.579 -0.030 1.318 -0.620 0.893 0.541 -1.799 1.318
-1.799 0.126
484D 0.711 0.329 1.748 -0.467 1.367 1.166 -0.790 1.748
-0.790 0.581
485W 0.743 -0.617 1.636 -0.580 1.312 1.150 -0.146 1.636
-0.617 0.500
486T 0.547 0.461 1.683 -1.002 1.431 1.149 0.034 1.683
-1.002 0.615
487R 0.294 -0.126 1.935 -1.167 1.668 1.168 1.376 1.935
-1.167 0.736
488V 0.155 -1.144 1.991 -1.287 1.713 1.279 1.358 1.991
-1.287 0.581
489P 0.553 -0.472 1.851 -1.167 1.686 1.255 1.925 1.925
-1.167 0.805
490Y -0.357 -0.017 1.571 -1.365 1.540 1.241 2.319 2.319
-1.365 0.704
491E -0.129 0.065 1.468 -1.702 1.431 1.216 2.294 2.294
-1.702 0.663
492V 0.370 0.345 2.019 -2.110 1.914 1.839 1.704 2.019
-2.110 0.869
493L -0.269 0.932 1.636 -2.520 1.622 1.822 1.806 1.822
-2.520 0.718
494E 0.263 1.950 1.533 -2.466 1.540 1.822 1.634 1.950
-2.466 0.897
495R 0.098 1.050 1.403 -2.116 1.330 1.243 1.701 1.701
-2.116 0.673
496I 0.598 0.728 1.954 -1.545 1.813 1.866 1.111 1.954
-1.545 0.932
497S 0.673 1.662 1.898 -1.148 1.786 1.862 0.998 1.898
-1.148 1.104
498T 0.509 1.381 1.767 -1.061 1.576 1.283 1.065 1.767
-1.061 0.931

499R	0.686	0.794	1.636	-0.954	1.412	0.699	0.953	1.636
-0.954	0.747							
500I	1.685	-0.019	2.103	-0.659	1.795	1.296	0.605	2.103
-0.659	0.972							
501T	1.040	0.880	1.832	-0.148	1.631	1.278	1.034	1.832
-0.148	1.078							
502N	0.844	0.293	1.636	0.091	1.476	1.258	-0.017	1.636
-0.017	0.797							
503E	1.072	0.293	1.533	-0.282	1.367	1.233	-0.043	1.533
-0.282	0.739							
504V	1.344	0.532	1.552	-1.119	1.376	1.233	0.224	1.552
-1.119	0.734							
505A	1.457	0.532	1.655	-1.349	1.531	1.253	0.071	1.655
-1.349	0.736							
506E	1.280	0.435	1.786	-1.289	1.695	1.837	0.183	1.837
-1.289	0.847							
507V	0.553	-0.344	1.337	-0.565	1.321	1.239	0.798	1.337
-0.565	0.620							
508N	0.553	0.291	1.337	-0.330	1.321	1.239	0.798	1.337
-0.330	0.744							
509R	-0.161	-0.643	1.253	-0.651	1.330	1.245	2.243	2.243
-0.651	0.659							
510V	-0.022	-0.965	1.197	-1.095	1.285	1.134	2.260	2.260
-1.095	0.542							
511V	-0.294	-0.013	1.178	-1.355	1.276	1.134	1.993	1.993
-1.355	0.560							
512L	-0.408	0.914	1.075	-1.272	1.121	1.114	2.147	2.147
-1.272	0.670							
513D	-0.262	1.477	0.795	-0.740	0.802	0.509	2.308	2.308
-0.740	0.698							
514I	0.332	1.297	1.365	-0.428	1.449	1.102	1.784	1.784
-0.428	0.986							
515T	0.699	1.621	1.730	-0.181	1.731	1.120	1.415	1.731
-0.181	1.162							
516S	1.413	1.621	2.057	0.046	1.996	1.133	1.200	2.057
0.046	1.352							
517K	0.914	0.441	1.786	-0.040	1.677	0.644	0.199	1.786
-0.040	0.803							
518P	1.748	0.185	2.122	0.012	1.850	0.662	-0.082	2.122
-0.082	0.928							
519P	0.914	-0.677	1.786	-0.319	1.677	0.644	0.199	1.786
-0.677	0.603							
520A	0.996	-0.460	1.963	-0.850	1.886	1.224	0.013	1.963
-0.850	0.682							
521T	0.003	-0.206	1.533	-1.422	1.267	0.654	-0.030	1.533
-1.422	0.257							
522I	0.364	-0.442	1.617	-2.013	1.358	1.235	-0.276	1.617
-2.013	0.263							
523E	0.231	0.137	0.917	-2.311	1.403	1.276	-1.506	1.403
-2.311	0.021							
524W	0.098	-0.184	0.459	-2.134	1.722	1.336	-1.506	1.722
-2.134	-0.030							
525E	-0.231	0.574	-0.196	-1.754	1.886	1.376	-2.557	1.886
-2.557	-0.129							

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]VVQPADIDVPETPARPVLVVDFGAQYAQLIARRVREARVFSEVIPHTASIEEIRARQPVALVLSG ARQPFPGPGLGIRIVGEVTAKRLDTLRHADSIVREELTAAGLDNQIWQCPVVLLADVRSVGVQ
Hydrophilicity	[1]VVQPADIDVPETPARPVLVVDFGAQYAQLIARRVREARVFSEVIPHTASIEEIRARQPVALVLSG ARQPFPGPGLGIRIVGEVTAKRLDTLRHADSIVREELTAAGLDNQIWQCPVVLLADVRSVGVQ
Flexibility	[1]VVQPADIDVPETPARPVLVVDFGAQYAQLIARRVREARVFSEVIPHTASIEEIRARQPVALVLSG ARQPFPGPGLGIRIVGEVTAKRLDTLRHADSIVREELTAAGLDNQIWQCPVVLLADVRSVGVQ
Accessibility	[1]VVQPADIDVPETPARPVLVVDFGAQYAQLIARRVREARVFSEVIPHTASIEEIRARQPVALVLSG ARQPFPGPGLGIRIVGEVTAKRLDTLRHADSIVREELTAAGLDNQIWQCPVVLLADVRSVGVQ
Turns	[1]VVQPADIDVPETPARPVLVVDFGAQYAQLIARRVREARVFSEVIPHTASIEEIRARQPVALVLSG ARQPFPGPGLGIRIVGEVTAKRLDTLRHADSIVREELTAAGLDNQIWQCPVVLLADVRSVGVQ
Exposed Surface	[1]VVQPADIDVPETPARPVLVVDFGAQYAQLIARRVREARVFSEVIPHTASIEEIRARQPVALVLSG ARQPFPGPGLGIRIVGEVTAKRLDTLRHADSIVREELTAAGLDNQIWQCPVVLLADVRSVGVQ
Polarity	[1]VVQPADIDVPETPARPVLVVDFGAQYAQLIARRVREARVFSEVIPHTASIEEIRARQPVALVLSG ARQPFPGPGLGIRIVGEVTAKRLDTLRHADSIVREELTAAGLDNQIWQCPVVLLADVRSVGVQ
Antigenic Propensity	[1]VVQPADIDVPETPARPVLVVDFGAQYAQLIARRVREARVFSEVIPHTASIEEIRARQPVALVLSG ARQPFPGPGLGIRIVGEVTAKRLDTLRHADSIVREELTAAGLDNQIWQCPVVLLADVRSVGVQ

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