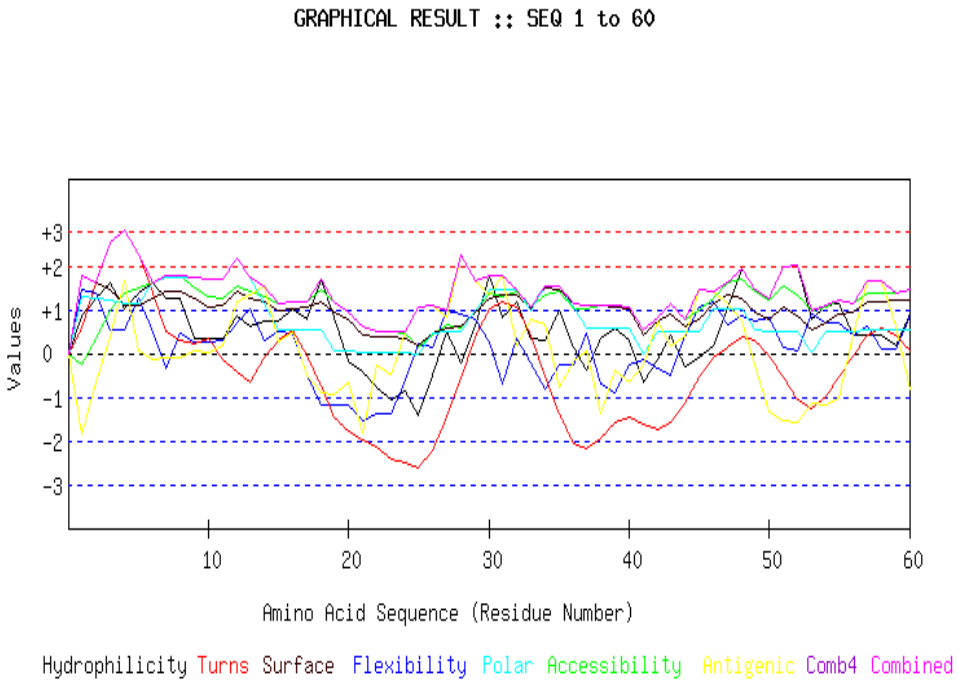
BcePred Prediction Server

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

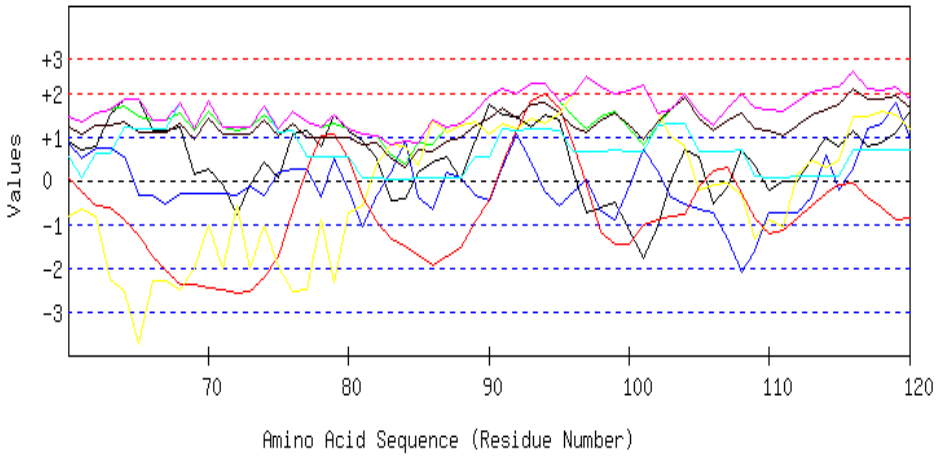
seqname=
Seq=VSDHSTFADRHIGLDSQAVATMLAVIGVDSLDDLAVKAVPAGILDTLTDTGAAPGLDSLPPAASEAEALAELR
ALADANTVAVSMIGQGYYDTHTPPVLLRNIIENPAWYTAYTPYQPEISQGRLEALLNFQTLVTDLTGLEIANASMLD
EGTAAAEAMTLMHRAARGPVKRVVVDADVFTQTAAVLATRAKPLGIEIVTADLRAGLPDGEFFGVIAQLPGASGRI
TDWSALVQQAHDRGALVAVGADLLALTLIAPPGEIGADVAFGTTQRFGVPMGFGGPHAGYLAVHAKHARQLPGR
LVGVSVDSDGTPAYRLALQTREQHIRRDKATSNICTAQVLLAVLAAMYASYHGAGGLTAIARRVHAHAEAIAGALG
DALVHDKYFDTVLARVPGRADEVLARAKANGINLWRVDADHVSVACDEATTDTHVAVVLDAFGVAAAAPAHTDIA
TRTSEFLTHPAFTQYRTETSMMRYLRALADKDIALDRSMIPLGSCTMKLNAAAEMESITWPEFGRQHPFAPASDT
AGLRQLVADLQSWLVLITGYDAVSLQPNAGSQGEYAGLLAIHEYHASRGEPHRDICLIPSSAHGTNAASAALAGM
RVVVVDCHDNGDVDLDDLRAKVGEHAERLSALMITYPSTHGVYEHDIAEICAAVHDAGGQVYVDGANLNALVGL
ARPGKFGGDVSHLNLHKTFCIPHGGGGPGVGPVAVRAHLAPFLPGHPFAPELPKGYPVSSAPYGSASILPITWAY
IRMMGAEGLRAASLTAITSANYIARRLDEYYPVLYTGENGMVAHECILDLRGITKLTGITVDDVAKRLADYGFHAPT
MSFPVAGTLMVEPTESESLAEVDAFCEAMIGIRAEIDKVGAGEWPVDDNPLRGAPHTAQCLLASDWDHPYTREQ
AAYPLGTAFRPKVWPAVRRIDGAYGDRNLVCSCPPVEAFA

Length=941

GRAPHICAL RESULT

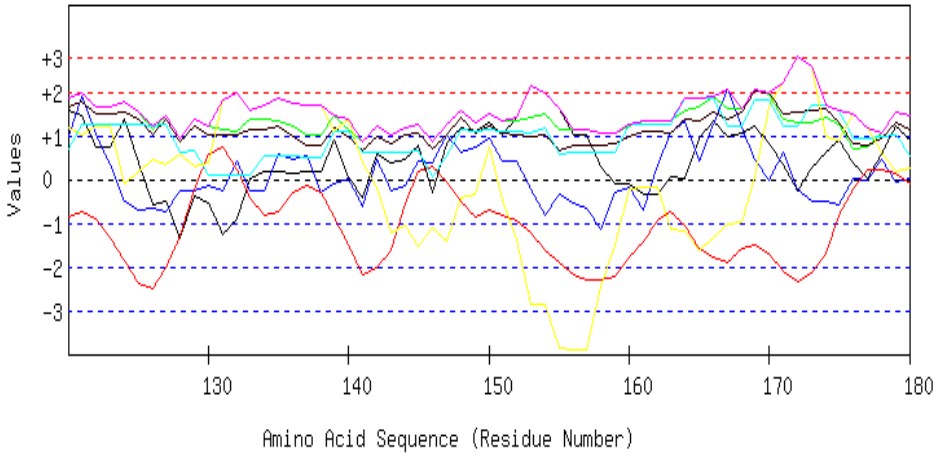


GRAPHICAL RESULT :: SEQ 61 to 120



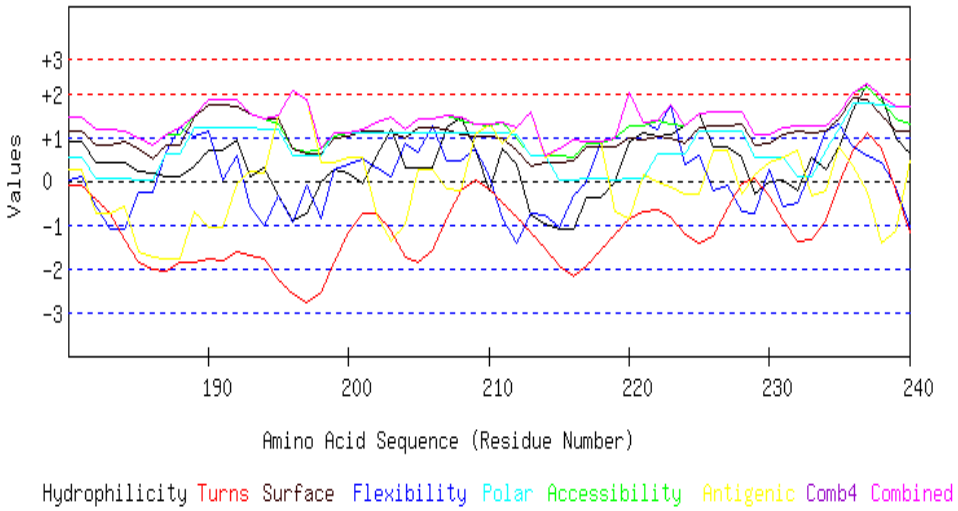
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 121 to 180

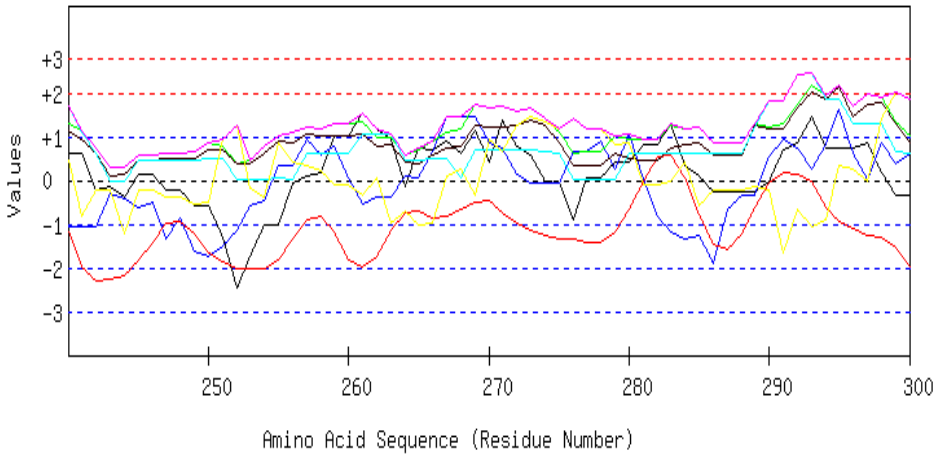


Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 181 to 240

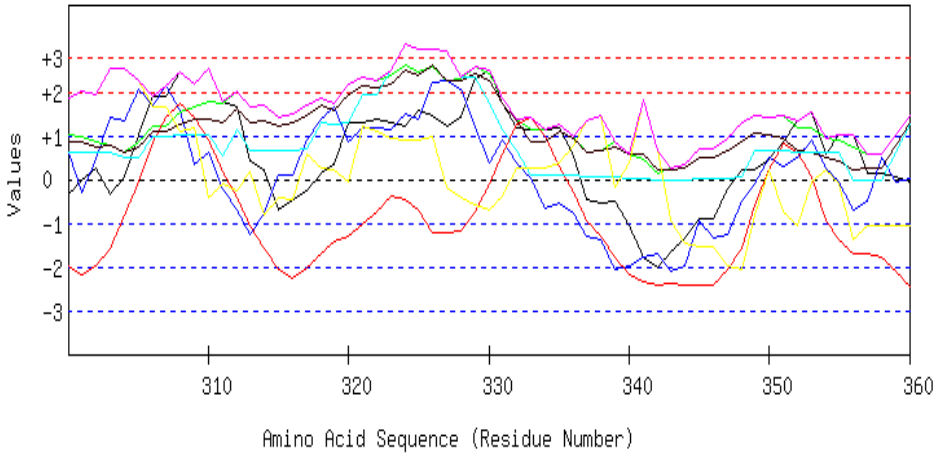


GRAPHICAL RESULT :: SEQ 241 to 300



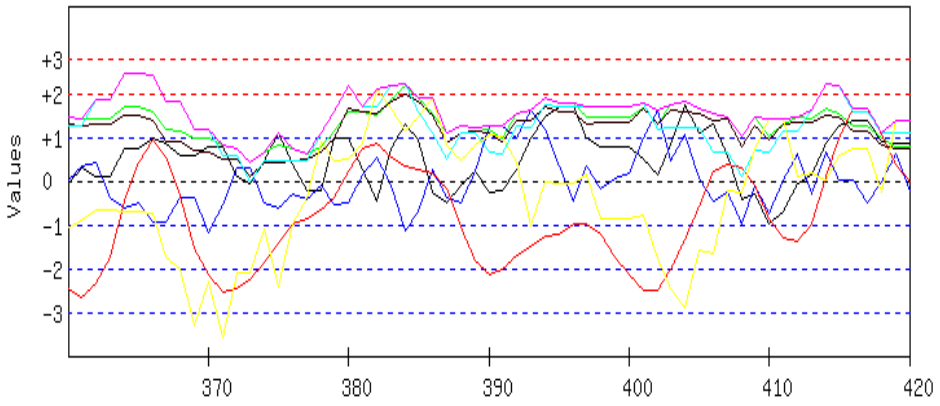
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 301 to 360



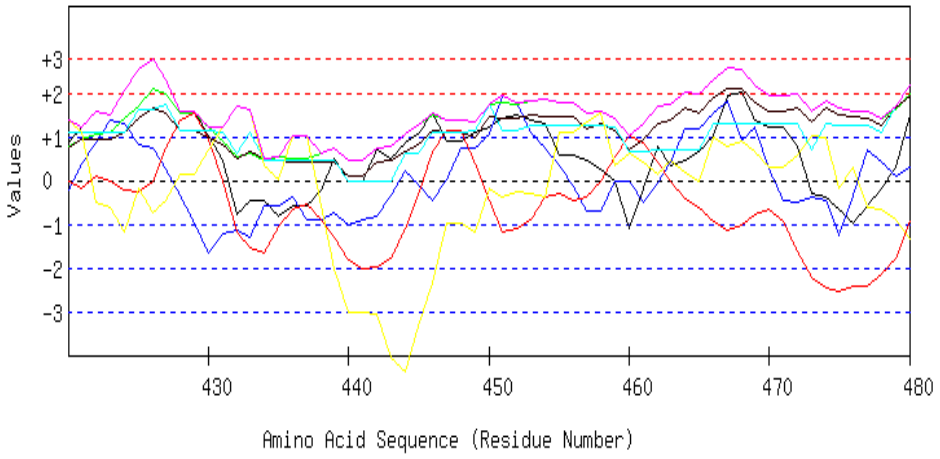
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 361 to 420



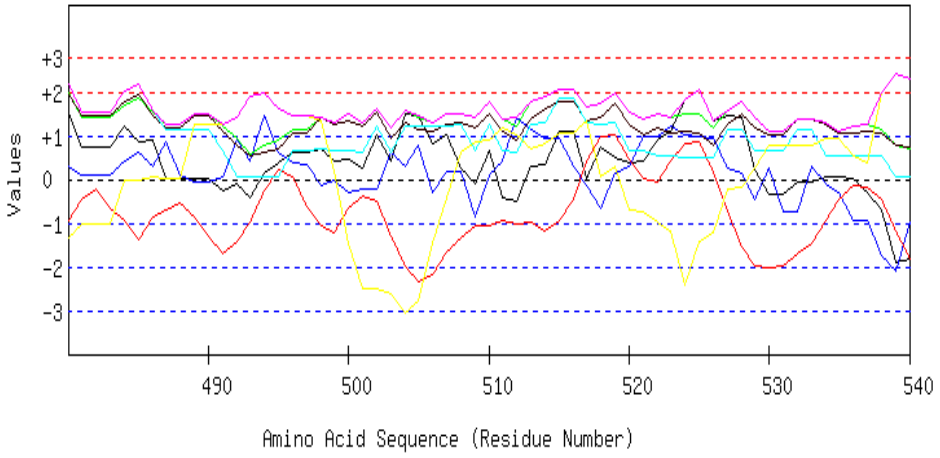
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 421 to 480



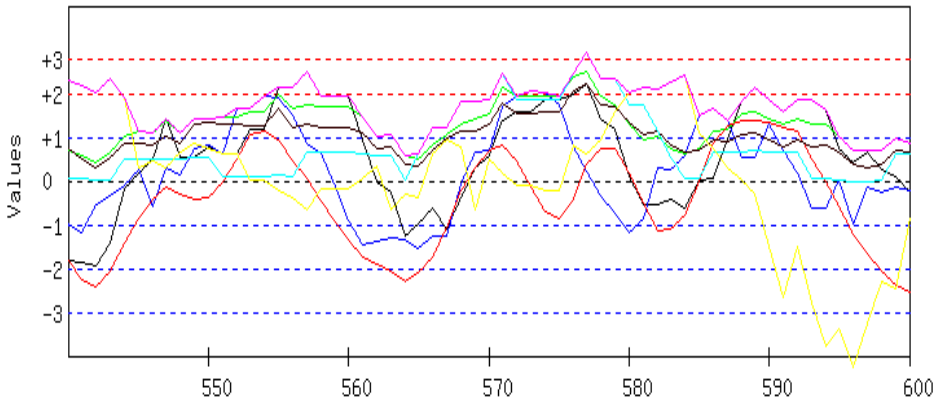
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 481 to 540



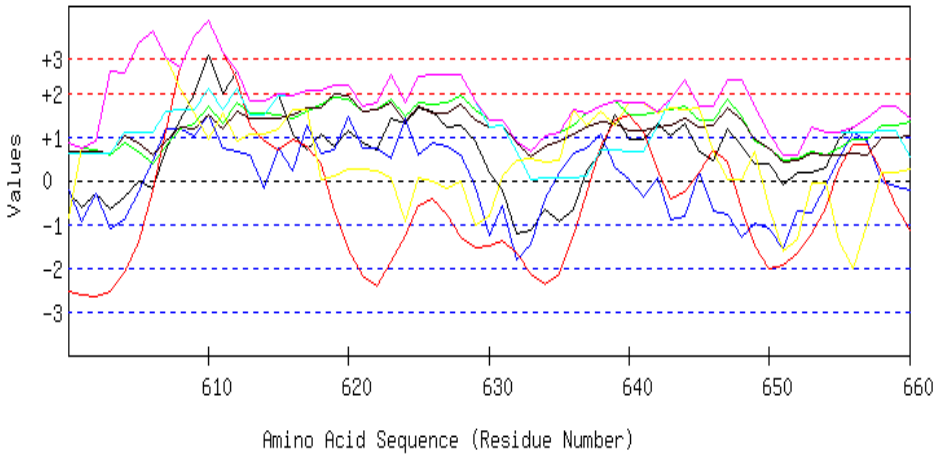
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 541 to 600



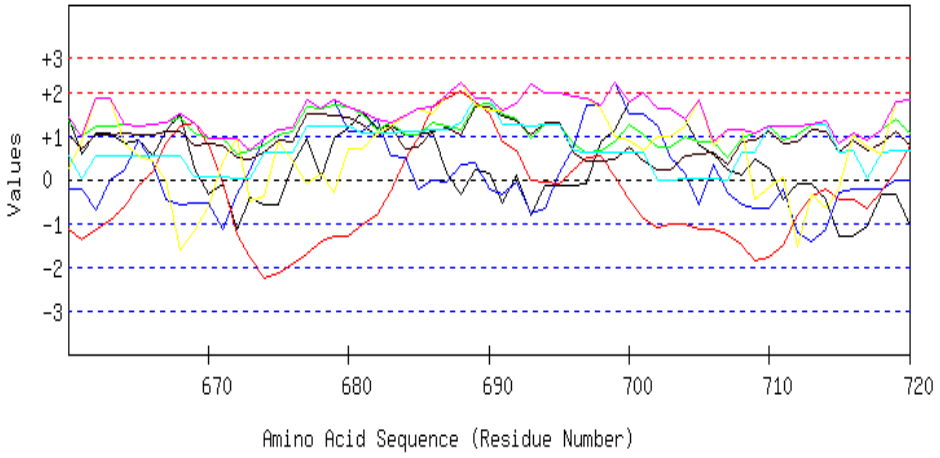
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 601 to 660



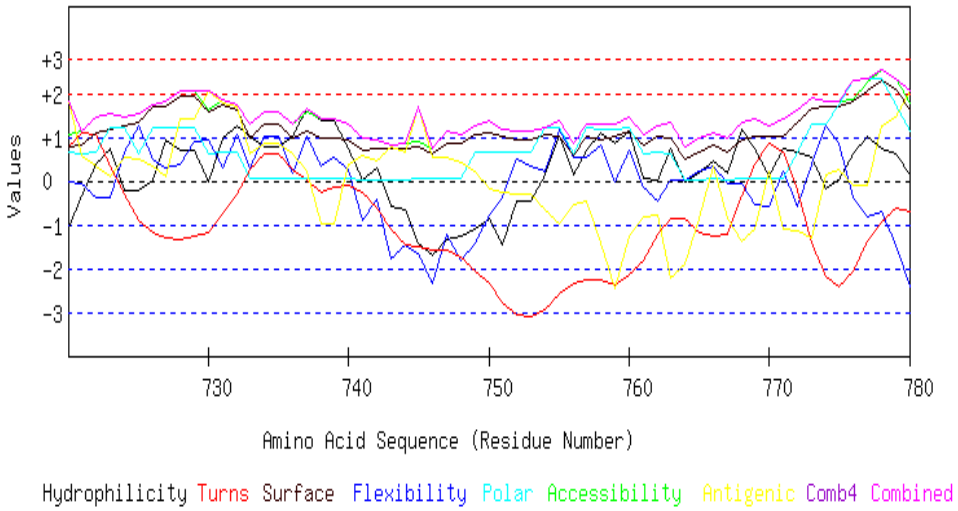
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 661 to 720

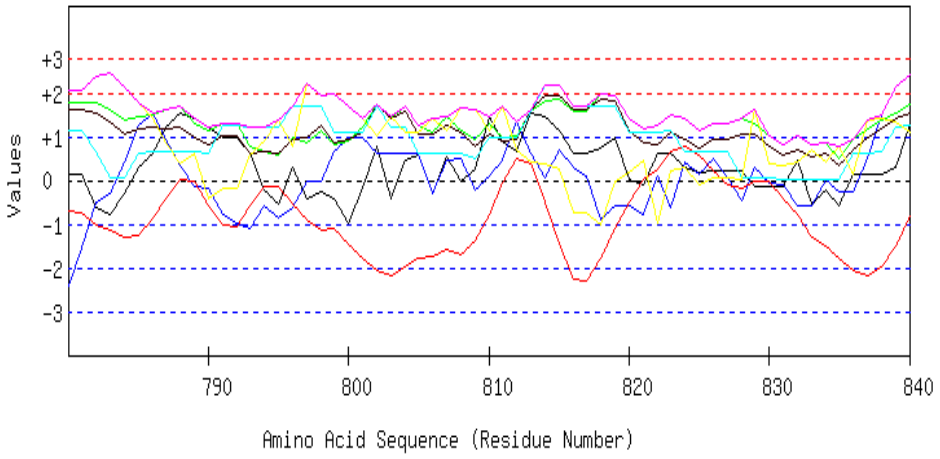


Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

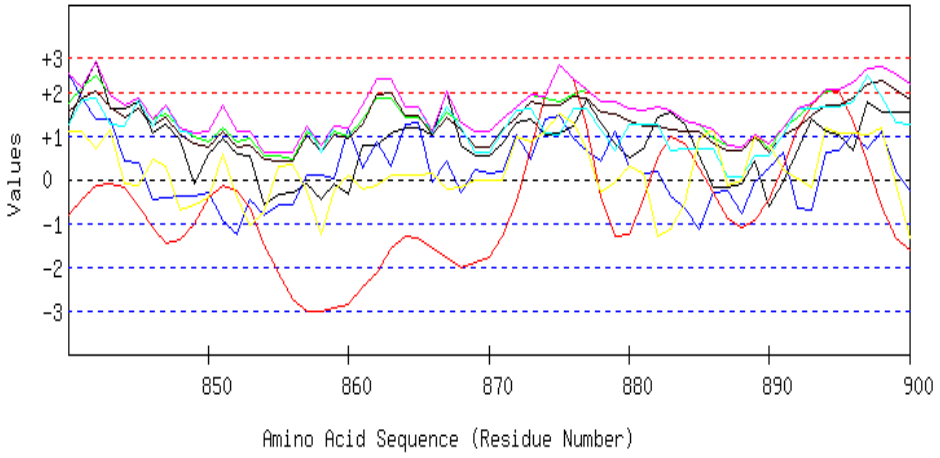
GRAPHICAL RESULT :: SEQ 721 to 780



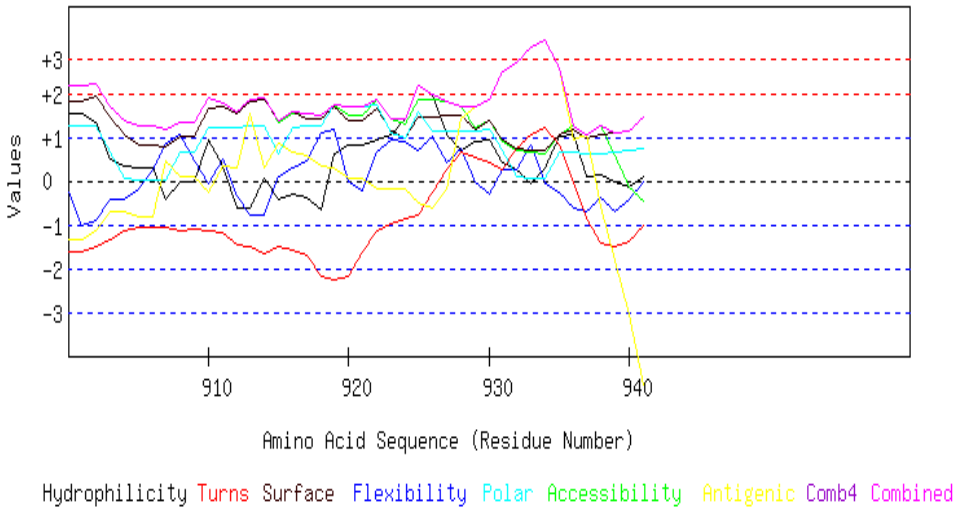
GRAPHICAL RESULT :: SEQ 781 to 840



GRAPHICAL RESULT :: SEQ 841 to 900



GRAPHICAL RESULT :: SEQ 901 to 960



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

VSDHSTFADRHIGLDSQAVATMLAVIGVDSLDDLAVKAVPAGILDTLTDTGAAPGLDSLP
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SQGRLEALLNFQTLVTDLTGLEIANASMLDEGTAAAEAMTLMHRAARGPVKRVVVDADVF
TQTAAVLATRAKPLGIEIVTADLRAGLPDGEFFGVIAQLPGASGRITDWSALVQQAHDRG
ALVAVGADLLALTLIAPPGEIGADVAFGTTQRFGVPMGFGGPHAGYLAVHAKHARQLPGR
LVGVSVDSDGTPAYRLALQTREQHIRRDKATSNICTAQVLLAVLAAMYASYHGAGGLTAI
ARRVHAHAEAIAGALGDALVHDKYFDTVLARVPGRADEVLARAKANGINLWRVDADHVSV
ACDEATTDTHVAVVLDAFGVAAAAPAHTDIATRTSEFLTHPAFTQYRTETSMMRYLRALA
DKDIALDRSMIPLGSCTMKLNAAAEMESITWPEFGRQHPFAPASDTAGLRQLVADLQSWL
VLITGYDAVSLQPNAGSQGEYAGLLAIHEYHASRGEPHRDICLIPSSAHGTNAASAALAG
MRVVVVDCHDNGDVDLDDLRAKVGEHAERLSALMITYPSTHGVYEHDIAEICAAVHDAGG
QVYVDGANLNALVGLARPGKFGGDVSHLNLHKTFCIPHGGGGPGVGPVAVRAHLAPFLPG
HPFAPELPKGYPVSSAPYGSASILPITWAYIRMMGAEGLRAASLTAITSANYIARRLDEY
YPVLYTGENGMVAHECILDLRGITKLTGITVDDVAKRLADYGFHAPTMSFPVAGTLMVEP
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QAAYPLGTAFRPKVWPAVRRIDGAYGDRNLVCSCPPVEAFA

Length=941

A.A.	Parameter							Combined		
	Hydro	Flexi	Access	Turns	Surface	Polar	AntiPro	MAX	MIN	AVG
1 V	0.863	1.461	-0.270	0.592	1.795	1.280	-1.842	1.795	-1.842	0.554
2 S	1.274	1.383	0.337	1.628	1.631	1.240	-0.672	1.631	-0.672	0.975
3 D	1.603	0.527	0.991	2.557	1.467	1.200	0.379	2.557	0.379	1.246
4 H	1.021	0.527	1.384	2.811	1.103	1.144	1.640	2.811	0.527	1.376
5 S	1.388	1.251	1.505	2.277	1.112	1.143	0.042	2.277	0.042	1.245
6 T	1.609	0.485	1.627	1.399	1.276	1.612	-0.127	1.627	-0.127	1.126
7 F	1.242	-0.330	1.786	0.485	1.431	1.748	-0.119	1.786	-0.330	0.892
8 A	1.242	0.471	1.786	0.315	1.431	1.748	-0.119	1.786	-0.119	0.982
9 D	0.326	0.267	1.496	0.219	1.257	1.729	0.043	1.729	0.043	0.762
10 R	0.357	0.267	1.290	0.321	1.057	1.709	0.002	1.709	0.002	0.715
11 H	0.357	0.309	1.272	-0.144	1.112	1.711	0.186	1.711	-0.144	0.686
12 I	0.857	0.710	1.543	-0.422	1.431	2.199	1.187	2.199	-0.422	1.072
13 G	0.636	1.034	1.421	-0.679	1.267	1.731	1.356	1.731	-0.679	0.966
14 L	0.749	0.311	1.318	-0.107	1.166	1.148	1.520	1.520	-0.107	0.872
15 D	0.749	0.515	1.160	0.293	0.993	0.528	0.243	1.160	0.243	0.640
16 S	1.021	0.467	1.178	0.542	1.002	0.528	0.510	1.178	0.467	0.750
17 Q	0.794	-0.502	1.188	-0.040	1.048	0.528	-0.501	1.188	-0.502	0.359
18 A	1.704	-1.198	1.468	-0.744	1.194	0.543	-0.895	1.704	-1.198	0.296
19 V	0.806	-1.198	1.188	-1.475	0.920	0.071	-0.941	1.188	-1.475	-0.090
20 A	-0.186	-1.198	0.954	-1.788	0.774	0.056	-0.666	0.954	-1.788	-0.293
21 T	-0.433	-1.522	0.627	-1.982	0.401	0.014	-1.839	0.627	-1.982	-0.676
22 M	-0.800	-1.386	0.505	-2.153	0.392	0.015	-0.240	0.505	-2.153	-0.524
23 L	-1.072	-1.368	0.487	-2.421	0.382	0.016	-0.507	0.487	-2.421	-0.640
24 A	-0.844	-0.625	0.477	-2.514	0.337	0.016	0.503	0.503	-2.514	-0.378
25 V	-1.407	0.231	0.160	-2.617	0.173	-0.003	1.051	1.051	-2.617	-0.345
26 I	-0.509	0.123	0.440	-2.205	0.446	0.469	1.097	1.097	-2.205	-0.020

27 G	0.484	0.986	0.674	-1.476	0.592	0.484	0.822	0.986	-1.476	0.367
28 V	-0.231	0.898	0.589	-0.569	0.601	0.489	2.267	2.267	-0.569	0.578
29 D	0.636	0.790	0.982	0.376	0.929	0.977	1.669	1.669	0.376	0.908
30 S	1.774	0.251	1.393	1.039	1.267	1.464	1.339	1.774	0.251	1.218
31 L	0.832	-0.701	1.318	1.176	1.321	1.469	1.773	1.773	-0.701	1.027
32 D	1.198	0.335	1.440	1.043	1.330	1.467	0.175	1.467	0.175	0.998
33 D	0.332	-0.204	1.047	0.417	1.002	0.980	0.772	1.047	-0.204	0.621
34 L	0.281	-0.839	1.346	-0.538	1.485	1.555	0.677	1.555	-0.839	0.567
35 A	0.996	-0.276	1.431	-1.391	1.476	1.549	-0.768	1.549	-1.391	0.431
36 V	0.130	-0.276	1.038	-2.076	1.148	1.062	-0.170	1.148	-2.076	0.122
37 K	-0.370	0.447	1.010	-2.191	1.103	0.592	0.059	1.103	-2.191	0.093
38 A	0.345	-0.709	1.094	-1.931	1.093	0.587	-1.386	1.094	-1.931	-0.130
39 V	0.572	-0.913	1.085	-1.561	1.048	0.587	-0.376	1.085	-1.561	0.063
40 P	0.300	-0.278	1.066	-1.462	1.039	0.587	-0.643	1.066	-1.462	0.087
41 A	-0.642	-0.146	0.533	-1.616	0.410	-0.002	-0.273	0.533	-1.616	-0.248
42 G	-0.142	-0.350	0.804	-1.751	0.729	0.487	0.728	0.804	-1.751	0.072
43 I	0.421	-0.486	1.122	-1.579	0.893	0.505	0.180	1.122	-1.579	0.151
44 L	-0.294	0.377	0.795	-1.149	0.629	0.491	0.395	0.795	-1.149	0.178
45 D	-0.098	1.072	0.991	-0.530	0.784	0.511	1.446	1.446	-0.530	0.597
46 T	0.174	1.161	1.272	-0.092	1.148	1.000	1.437	1.437	-0.092	0.871
47 L	1.009	0.670	1.608	0.158	1.321	1.018	1.156	1.608	0.158	0.991
48 T	1.951	0.874	1.683	0.379	1.267	1.013	0.721	1.951	0.379	1.127
49 D	1.451	0.742	1.412	0.309	0.948	0.524	-0.280	1.451	-0.280	0.729
50 T	1.255	0.830	1.216	-0.057	0.793	0.504	-1.331	1.255	-1.331	0.459
51 G	1.970	0.135	1.543	-0.559	1.057	0.518	-1.546	1.970	-1.546	0.445
52 A	2.001	0.047	1.337	-1.042	0.856	0.498	-1.586	2.001	-1.586	0.302
53 A	0.787	0.902	0.982	-1.258	0.547	0.014	-1.142	0.982	-1.258	0.119
54 P	1.091	0.698	1.057	-0.998	0.711	0.483	-1.192	1.091	-1.192	0.264
55 G	1.141	0.698	1.216	-0.530	0.911	0.503	-1.032	1.216	-1.032	0.415
56 L	0.427	0.429	1.132	-0.071	0.920	0.509	0.413	1.132	-0.071	0.537
57 D	0.427	0.634	1.375	0.435	1.194	0.528	1.643	1.643	0.427	0.891
58 S	0.427	0.095	1.375	0.589	1.194	0.528	1.643	1.643	0.095	0.836
59 L	0.199	0.095	1.384	0.428	1.239	0.528	0.632	1.384	0.095	0.644
60 P	0.914	0.874	1.468	0.074	1.230	0.522	-0.813	1.468	-0.813	0.610
61 P	0.692	0.515	1.346	-0.242	1.066	0.053	-0.644	1.346	-0.644	0.398
62 A	0.775	0.732	1.524	-0.565	1.276	0.633	-0.830	1.524	-0.830	0.506
63 A	1.489	0.732	1.608	-0.632	1.267	0.627	-2.275	1.608	-2.275	0.402
64 S	1.849	0.527	1.692	-0.905	1.358	1.208	-2.521	1.849	-2.521	0.458
65 E	1.849	-0.328	1.449	-1.269	1.084	1.189	-3.751	1.849	-3.751	0.032
66 A	1.135	-0.328	1.365	-1.735	1.093	1.194	-2.306	1.365	-2.306	0.060
67 E	1.135	-0.532	1.365	-2.070	1.093	1.194	-2.306	1.365	-2.306	-0.017
68 A	1.217	-0.294	1.543	-2.365	1.303	1.774	-2.492	1.774	-2.492	0.098
69 L	0.142	-0.294	1.132	-2.386	0.948	1.180	-2.031	1.180	-2.386	-0.187
70 A	0.275	-0.294	1.561	-2.451	1.422	1.804	-1.022	1.804	-2.451	0.185
71 E	-0.085	-0.294	1.234	-2.497	1.057	1.205	-2.006	1.234	-2.497	-0.198
72 L	-0.800	-0.330	1.150	-2.568	1.066	1.210	-0.561	1.210	-2.568	-0.119
73 R	-0.085	-0.126	1.234	-2.559	1.057	1.205	-2.006	1.234	-2.559	-0.183
74 A	0.414	-0.330	1.505	-2.212	1.376	1.694	-1.005	1.694	-2.212	0.206
75 L	0.054	0.161	1.178	-1.747	1.011	1.094	-1.988	1.178	-1.988	-0.034
76 A	1.078	0.269	1.561	-0.696	1.312	1.129	-2.536	1.561	-2.536	0.303
77 D	1.141	0.269	1.328	0.270	0.993	0.525	-2.495	1.328	-2.495	0.290
78 A	0.775	-0.366	1.206	1.028	0.984	0.526	-0.896	1.206	-0.896	0.465
79 N	1.489	0.489	1.290	1.059	0.975	0.521	-2.341	1.489	-2.341	0.497
80 T	1.122	-0.234	1.169	0.481	0.966	0.522	-0.742	1.169	-0.742	0.469
81 V	0.901	-1.049	1.047	-0.398	0.802	0.054	-0.573	1.047	-1.049	0.112
82 A	0.503	-0.326	1.038	-0.945	0.847	0.071	0.382	1.038	-0.945	0.224
83 V	-0.446	0.165	0.599	-1.339	0.519	0.032	0.816	0.816	-1.339	0.050
84 S	-0.414	0.888	0.393	-1.518	0.319	0.012	0.776	0.888	-1.518	0.065
85 M	0.199	-0.374	0.842	-1.713	0.701	0.053	0.350	0.842	-1.713	0.008

86 I	0.427	-0.667	0.832	-1.921	0.656	0.053	1.361	1.361	-1.921	0.106
87 G	0.541	0.197	1.206	-1.747	0.902	0.071	1.104	1.206	-1.747	0.325
88 Q	0.010	0.061	1.309	-1.528	0.984	0.070	1.276	1.309	-1.528	0.312
89 G	0.907	-0.340	1.589	-0.953	1.257	0.542	1.323	1.589	-0.953	0.618
90 Y	1.742	-0.476	1.926	-0.463	1.431	0.560	1.042	1.926	-0.476	0.823
91 Y	1.514	0.289	2.094	0.383	1.649	1.180	1.309	2.094	0.289	1.203
92 D	1.464	1.054	1.963	1.122	1.431	1.157	1.186	1.963	1.054	1.340
93 T	1.236	0.419	2.216	1.815	1.750	1.176	1.406	2.216	0.419	1.431
94 H	1.489	-0.276	2.206	1.966	1.786	1.176	1.294	2.206	-0.276	1.377
95 T	1.375	-0.570	1.832	1.651	1.540	1.158	1.550	1.832	-0.570	1.220
96 P	0.161	-0.248	1.477	0.804	1.230	0.675	1.994	1.994	-0.248	0.871
97 P	-0.749	0.003	1.197	-0.104	1.084	0.660	2.388	2.388	-0.749	0.640
98 V	-0.616	-0.681	1.468	-1.191	1.385	0.665	2.120	2.120	-1.191	0.450
99 L	-0.503	-0.909	1.571	-1.460	1.540	0.685	1.966	1.966	-1.460	0.413
100L	-1.141	-0.130	1.188	-1.441	1.248	0.668	2.068	2.068	-1.441	0.351
101R	-1.780	0.684	0.804	-1.029	0.957	0.651	2.170	2.170	-1.780	0.351
102N	-1.053	0.229	1.253	-0.912	1.330	1.249	1.555	1.555	-1.053	0.522
103I	-0.028	-0.380	1.636	-0.814	1.631	1.284	1.007	1.636	-0.814	0.619
104I	0.686	-0.558	1.963	-0.770	1.895	1.298	0.792	1.963	-0.770	0.758
105E	0.553	-0.641	1.533	-0.133	1.422	0.673	-0.217	1.533	-0.641	0.456
106N	-0.521	-0.725	1.253	0.205	1.130	0.658	-0.082	1.253	-0.725	0.274
107P	-0.136	-1.334	1.646	0.291	1.385	0.675	-0.072	1.646	-1.334	0.351
108A	0.699	-2.099	1.982	-0.287	1.558	0.694	-0.353	1.982	-2.099	0.313
109W	0.338	-1.608	1.655	-0.876	1.194	0.094	-1.336	1.655	-1.608	-0.077
110Y	-0.224	-0.747	1.608	-1.235	1.121	0.073	-0.891	1.608	-1.235	-0.042
111T	-0.028	-0.747	1.561	-1.130	1.002	0.074	-1.070	1.561	-1.130	-0.048
112A	-0.028	-0.747	1.804	-0.846	1.276	0.093	0.160	1.804	-0.846	0.244
113Y	0.484	-0.388	2.038	-0.586	1.494	0.087	0.469	2.038	-0.586	0.514
114T	0.983	0.594	2.113	-0.292	1.631	0.110	0.301	2.113	-0.292	0.777
115P	0.787	-0.222	2.160	-0.083	1.750	0.109	0.480	2.160	-0.222	0.711
116Y	1.148	0.275	2.487	-0.061	2.114	0.708	1.464	2.487	-0.061	1.162
117Q	0.762	1.173	2.094	-0.362	1.859	0.691	1.453	2.094	-0.362	1.096
118P	0.844	1.309	2.047	-0.637	1.859	0.691	1.572	2.047	-0.637	1.098
119E	1.091	1.764	2.132	-0.902	1.959	0.714	1.516	2.132	-0.902	1.182
120I	1.571	0.984	1.870	-0.841	1.677	0.695	1.184	1.870	-0.841	1.020
121S	1.457	1.884	1.973	-0.756	1.777	1.277	1.020	1.973	-0.756	1.233
122Q	0.743	1.028	1.646	-0.892	1.513	1.264	1.235	1.646	-0.892	0.934
123G	0.743	0.333	1.646	-1.358	1.513	1.264	1.235	1.646	-1.358	0.768
124R	1.382	-0.498	1.786	-1.871	1.531	1.262	-0.097	1.786	-1.871	0.499
125L	0.389	-0.703	1.552	-2.361	1.385	1.247	0.178	1.552	-2.361	0.241
126E	-0.572	-0.673	1.141	-2.492	1.020	1.210	0.450	1.210	-2.492	0.012
127A	-0.490	-0.757	1.449	-2.022	1.376	1.251	0.336	1.449	-2.022	0.163
128L	-1.337	-0.266	0.954	-1.294	0.856	0.630	0.588	0.954	-1.337	0.019
129L	-0.376	-0.266	1.365	-0.237	1.221	0.667	0.317	1.365	-0.376	0.384
130N	-0.540	-0.158	1.234	0.581	1.011	0.088	0.384	1.234	-0.540	0.371
131F	-1.255	-0.276	1.150	0.757	1.020	0.093	1.829	1.829	-1.255	0.474
132Q	-0.907	0.437	1.113	0.233	1.002	0.089	1.983	1.983	-0.907	0.564
133T	0.003	-0.258	1.393	-0.403	1.148	0.104	1.588	1.588	-0.403	0.511
134L	0.193	-0.258	1.365	-0.838	1.157	0.552	1.693	1.693	-0.838	0.552
135V	0.193	0.574	1.346	-0.743	1.212	0.553	1.876	1.876	-0.743	0.716
136T	0.142	0.465	1.216	-0.304	0.993	0.531	1.754	1.754	-0.304	0.685
137D	0.174	0.550	1.010	-0.149	0.793	0.511	1.713	1.713	-0.149	0.657
138L	0.174	-0.314	1.010	-0.305	0.793	0.511	1.713	1.713	-0.314	0.512
139T	0.901	-0.110	1.459	-0.848	1.166	1.109	1.098	1.459	-0.848	0.682
140G	0.067	0.009	1.122	-1.515	0.993	1.091	1.379	1.379	-1.515	0.449
141L	-0.433	-0.619	0.851	-2.166	0.674	0.602	0.378	0.851	-2.166	-0.102
142E	0.591	0.441	1.234	-2.016	0.975	0.637	-0.170	1.234	-2.016	0.242
143I	0.395	-0.248	1.038	-1.624	0.820	0.617	-1.221	1.038	-1.624	-0.032
144A	0.446	-0.128	1.197	-0.526	1.020	0.637	-1.061	1.197	-1.061	0.227

145N	0.762	0.411	1.272	0.180	1.057	0.649	-1.551	1.272	-1.551	0.397
146A	-0.313	0.377	0.860	0.318	0.701	0.055	-1.090	0.860	-1.090	0.130
147S	0.825	1.004	1.272	-0.049	1.039	0.542	-1.421	1.272	-1.421	0.459
148M	1.186	0.640	1.599	-0.516	1.403	1.142	-0.437	1.599	-0.516	0.717
149L	1.103	0.754	1.290	-0.878	1.048	1.101	-0.324	1.290	-0.878	0.585
150D	1.299	0.958	1.487	-0.717	1.203	1.121	0.727	1.487	-0.717	0.868
151E	1.021	0.419	1.337	-0.822	1.048	1.101	-0.443	1.337	-0.822	0.523
152G	1.420	0.419	1.346	-0.953	1.002	1.084	-1.398	1.420	-1.398	0.417
153T	2.134	-0.208	1.431	-1.207	0.993	1.078	-2.843	2.134	-2.843	0.197
154A	1.995	-0.813	1.487	-1.637	1.039	1.189	-2.860	1.995	-2.860	0.057
155A	1.634	-0.322	1.160	-1.889	0.674	0.589	-3.844	1.634	-3.844	-0.285
156A	1.009	-0.526	1.160	-2.188	0.765	0.607	-3.899	1.160	-3.899	-0.439
157E	1.009	-0.641	1.160	-2.298	0.765	0.607	-3.899	1.160	-3.899	-0.471
158A	0.294	-1.125	1.075	-2.291	0.774	0.612	-2.454	1.075	-2.454	-0.445
159M	-0.104	-0.312	1.066	-2.221	0.820	0.629	-1.499	1.066	-2.221	-0.232
160T	-0.104	-0.198	1.225	-1.799	0.993	1.249	-0.222	1.249	-1.799	0.163
161L	-0.332	-0.689	1.328	-1.423	1.103	1.274	-0.197	1.328	-1.423	0.152
162M	-0.332	0.329	1.328	-0.954	1.103	1.274	-0.197	1.328	-0.954	0.364
163H	0.067	1.070	1.337	-0.756	1.057	1.257	-1.151	1.337	-1.151	0.411
164R	0.003	1.339	1.571	-1.042	1.376	1.862	-1.193	1.862	-1.193	0.559
165A	0.945	0.429	1.646	-1.577	1.321	1.856	-1.628	1.856	-1.628	0.428
166A	1.344	1.261	1.898	-1.776	1.549	1.858	-1.353	1.898	-1.776	0.683
167R	0.977	2.074	1.617	-1.907	1.367	1.240	-1.031	2.074	-1.907	0.620
168G	1.072	1.165	1.636	-1.570	1.531	1.210	-0.965	1.636	-1.570	0.583
169P	1.205	0.441	2.066	-1.500	2.005	1.834	0.044	2.066	-1.500	0.871
170V	0.838	-0.013	1.945	-1.714	1.996	1.836	1.643	1.996	-1.714	0.933
171K	0.338	0.622	1.393	-2.088	1.513	1.213	2.232	2.232	-2.088	0.746
172R	-0.256	-0.210	1.281	-2.349	1.549	1.214	2.821	2.821	-2.349	0.579
173V	0.244	-0.484	1.309	-2.154	1.595	1.684	2.592	2.592	-2.154	0.684
174V	0.610	-0.484	1.431	-1.683	1.604	1.683	0.993	1.683	-1.683	0.593
175V	0.882	-0.562	1.253	-0.803	1.285	1.577	0.919	1.577	-0.803	0.650
176D	0.383	0.025	0.702	-0.204	0.802	0.954	1.509	1.509	-0.204	0.596
177A	0.035	-0.023	0.758	0.231	0.765	0.957	1.171	1.171	-0.023	0.556
178D	0.598	0.467	1.075	0.208	0.929	0.975	0.623	1.075	0.208	0.697
179V	1.211	-0.072	1.524	0.129	1.312	1.016	0.198	1.524	-0.072	0.760
180F	0.907	0.025	1.449	-0.105	1.148	0.547	0.247	1.449	-0.105	0.603
181T	0.907	0.103	1.449	-0.117	1.148	0.547	0.247	1.449	-0.117	0.612
182Q	0.408	-0.593	1.178	-0.411	0.829	0.058	-0.754	1.178	-0.754	0.102
183T	0.408	-1.083	1.178	-0.757	0.829	0.058	-0.754	1.178	-1.083	-0.017
184A	0.408	-1.083	1.160	-1.329	0.884	0.059	-0.570	1.160	-1.329	-0.067
185A	0.212	-0.270	0.963	-1.846	0.729	0.039	-1.621	0.963	-1.846	-0.256
186V	0.161	-0.270	0.832	-2.029	0.510	0.017	-1.743	0.832	-2.029	-0.360
187L	0.098	0.658	1.066	-2.060	0.829	0.621	-1.785	1.066	-2.060	-0.082
188A	0.098	1.221	1.066	-1.878	0.829	0.621	-1.785	1.221	-1.878	0.025
189T	0.326	1.016	1.515	-1.854	1.467	1.216	-0.710	1.515	-1.854	0.425
190R	0.692	1.153	1.879	-1.785	1.750	1.233	-1.079	1.879	-1.785	0.549
191A	0.692	0.015	1.879	-1.808	1.750	1.233	-1.079	1.879	-1.808	0.383
192K	0.920	0.590	1.870	-1.632	1.704	1.233	-0.068	1.870	-1.632	0.660
193P	0.085	-0.566	1.533	-1.681	1.531	1.215	0.213	1.533	-1.681	0.333
194L	0.313	-1.021	1.431	-1.783	1.422	1.190	0.187	1.431	-1.783	0.248
195G	-0.325	-0.326	1.290	-2.249	1.403	1.192	1.519	1.519	-2.249	0.358
196I	-0.920	-0.953	0.720	-2.598	0.756	0.599	2.043	2.043	-2.598	-0.050
197E	-0.724	-0.090	0.674	-2.766	0.638	0.600	1.864	1.864	-2.766	0.028
198I	-0.009	-0.869	0.758	-2.525	0.629	0.595	0.419	0.758	-2.525	-0.143
199V	0.263	0.269	1.038	-1.855	0.993	1.083	0.409	1.083	-1.855	0.314
200T	0.187	0.365	1.094	-1.181	1.020	1.087	0.523	1.094	-1.181	0.442
201A	-0.041	0.501	1.197	-0.720	1.130	1.112	0.548	1.197	-0.720	0.532
202D	0.598	0.297	1.337	-0.749	1.148	1.110	-0.784	1.337	-0.784	0.423
203L	1.192	0.117	1.449	-1.141	1.112	1.109	-1.372	1.449	-1.372	0.352

204R	0.281	0.860	1.169	-1.759	0.966	1.094	-0.978	1.169	-1.759	0.233
205A	0.281	0.674	1.412	-1.859	1.239	1.113	0.252	1.412	-1.859	0.445
206G	0.281	1.249	1.412	-1.567	1.239	1.113	0.252	1.412	-1.567	0.569
207L	1.224	0.447	1.487	-0.842	1.185	1.108	-0.183	1.487	-0.842	0.632
208P	1.451	0.477	1.384	-0.217	1.075	1.083	-0.208	1.451	-0.217	0.721
209D	0.737	0.746	1.318	0.016	1.030	1.087	1.053	1.318	0.016	0.855
210G	-0.205	0.111	1.262	-0.189	1.030	1.091	1.304	1.304	-0.205	0.629
211E	0.737	-0.841	1.337	-0.520	0.975	1.086	0.869	1.337	-0.841	0.520
212F	0.370	-1.416	0.973	-0.803	0.692	1.068	1.238	1.238	-1.416	0.303
213F	-0.768	-0.751	0.561	-1.166	0.355	0.581	1.569	1.569	-1.166	0.055
214G	-0.996	-0.781	0.571	-1.542	0.401	0.581	0.558	0.581	-1.542	-0.172
215V	-1.109	-1.049	0.571	-1.920	0.410	0.024	0.748	0.748	-1.920	-0.332
216I	-1.109	-0.326	0.552	-2.180	0.465	0.025	0.932	0.932	-2.180	-0.235
217A	-0.395	-0.001	0.860	-1.951	0.784	0.040	0.901	0.901	-1.951	0.034
218Q	-0.395	0.854	0.860	-1.561	0.784	0.040	0.901	0.901	-1.561	0.212
219L	-0.028	0.990	0.982	-1.209	0.793	0.038	-0.698	0.990	-1.209	0.124
220P	0.888	2.008	1.272	-0.861	0.966	0.057	-0.860	2.008	-0.861	0.496
221G	1.116	1.325	1.262	-0.694	0.920	0.057	0.150	1.325	-0.694	0.591
222A	1.002	1.189	1.365	-0.662	1.020	0.639	-0.014	1.365	-0.662	0.649
223S	1.078	1.728	1.309	-0.833	0.993	0.635	-0.127	1.728	-0.833	0.683
224G	1.274	0.369	1.262	-1.235	0.875	0.636	-0.306	1.274	-1.235	0.411
225R	1.546	0.598	1.543	-1.417	1.239	1.125	-0.316	1.546	-1.417	0.617
226I	0.781	-0.216	1.561	-1.258	1.257	1.150	0.717	1.561	-1.258	0.571
227T	0.781	-0.096	1.561	-0.631	1.257	1.150	0.717	1.561	-0.631	0.677
228D	0.553	-0.683	1.571	-0.077	1.303	1.150	-0.294	1.571	-0.683	0.503
229W	-0.294	-0.731	1.057	0.066	0.838	0.531	0.142	1.057	-0.731	0.230
230S	-0.022	0.263	1.075	-0.352	0.847	0.531	0.409	1.075	-0.352	0.393
231A	0.029	-0.593	1.206	-0.908	1.066	0.553	0.532	1.206	-0.908	0.269
232L	-0.224	-0.502	1.262	-1.384	1.121	0.107	0.704	1.262	-1.384	0.155
233V	0.541	0.241	1.244	-1.352	1.103	0.082	-0.328	1.244	-1.352	0.218
234Q	0.263	1.151	1.253	-0.909	1.121	0.681	-0.221	1.253	-0.909	0.477
235Q	0.762	1.287	1.524	-0.068	1.440	1.170	0.780	1.524	-0.068	0.985
236A	1.609	0.796	2.038	0.702	1.905	1.790	0.345	2.038	0.345	1.312
237H	2.203	0.592	2.150	1.105	1.868	1.788	-0.244	2.203	-0.244	1.352
238D	1.957	0.405	1.823	0.757	1.494	1.746	-1.417	1.957	-1.417	0.966
239R	0.996	-0.134	1.412	-0.207	1.130	1.709	-1.146	1.709	-1.146	0.537
240G	0.629	-1.043	1.290	-1.184	1.121	1.710	0.453	1.710	-1.184	0.425
241A	0.629	-1.043	1.132	-1.960	0.948	1.090	-0.824	1.132	-1.960	-0.004
242L	-0.237	-1.043	0.739	-2.287	0.619	0.603	-0.227	0.739	-2.287	-0.262
243V	-0.142	-0.300	0.300	-2.241	0.100	-0.022	-0.225	0.300	-2.241	-0.361
244A	-0.370	-0.408	0.309	-2.197	0.146	-0.022	-1.236	0.309	-2.197	-0.540
245V	0.130	-0.613	0.580	-1.808	0.465	0.467	-0.235	0.580	-1.808	-0.145
246G	0.130	-0.516	0.580	-1.419	0.465	0.467	-0.235	0.580	-1.419	-0.075
247A	-0.218	-1.348	0.618	-0.999	0.483	0.471	-0.388	0.618	-1.348	-0.197
248D	-0.218	-0.857	0.618	-0.934	0.483	0.471	-0.388	0.618	-0.934	-0.118
249L	-0.566	-1.600	0.655	-1.234	0.501	0.475	-0.542	0.655	-1.600	-0.330
250L	-0.597	-1.721	0.860	-1.649	0.701	0.495	-0.502	0.860	-1.721	-0.345
251A	-1.312	-1.516	0.776	-1.865	0.711	0.500	0.943	0.943	-1.865	-0.252
252L	-2.450	-1.158	0.365	-2.021	0.373	0.013	1.274	1.274	-2.450	-0.515
253T	-1.735	-0.595	0.449	-2.019	0.364	0.008	-0.171	0.449	-2.019	-0.528
254L	-1.021	-0.458	0.776	-2.013	0.629	0.021	-0.386	0.776	-2.013	-0.350
255I	-1.021	0.321	1.019	-1.839	0.902	0.040	0.844	1.019	-1.839	0.038
256A	-0.079	0.321	1.094	-1.346	0.847	0.035	0.409	1.094	-1.346	0.183
257P	0.085	0.948	1.225	-0.887	1.057	0.615	0.342	1.225	-0.887	0.484
258P	0.161	0.590	1.169	-0.811	1.030	0.611	0.229	1.169	-0.811	0.425
259G	1.028	0.770	1.300	-1.196	1.002	0.609	-0.092	1.300	-1.196	0.489
260E	1.028	0.047	1.300	-1.832	1.002	0.609	-0.092	1.300	-1.832	0.294
261I	1.527	-0.528	1.328	-1.966	1.048	1.079	-0.321	1.527	-1.966	0.309
262G	1.160	-0.378	0.963	-1.724	0.765	1.062	0.047	1.160	-1.724	0.271

263A	0.933	-0.378	0.973	-1.129	0.811	1.062	-0.963	1.062	-1.129	0.187
264D	-0.142	0.113	0.580	-0.758	0.401	0.466	-0.686	0.580	-0.758	-0.004
265V	0.724	0.065	0.711	-0.712	0.373	0.465	-1.007	0.724	-1.007	0.088
266A	0.692	0.652	0.917	-0.862	0.574	0.484	-0.966	0.917	-0.966	0.213
267F	0.888	1.465	1.113	-0.807	0.729	0.504	0.084	1.465	-0.807	0.568
268G	0.636	1.465	1.169	-0.676	0.784	0.058	0.257	1.465	-0.676	0.527
269T	1.135	1.465	1.720	-0.501	1.267	0.681	-0.333	1.720	-0.501	0.776
270T	0.421	0.878	1.655	-0.447	1.221	0.685	0.928	1.655	-0.447	0.763
271Q	1.363	0.746	1.711	-0.722	1.221	0.681	0.677	1.711	-0.722	0.811
272R	0.768	0.141	1.599	-0.991	1.257	0.683	1.266	1.599	-0.991	0.675
273F	0.572	-0.046	1.646	-1.140	1.376	0.682	1.445	1.646	-1.140	0.648
274G	-0.022	-0.046	1.440	-1.269	1.267	0.679	1.349	1.440	-1.269	0.485
275V	-0.041	-0.046	1.103	-1.330	0.847	0.636	1.186	1.186	-1.330	0.337
276P	-0.888	0.678	0.608	-1.349	0.328	0.016	1.438	1.438	-1.349	0.119
277M	0.054	0.678	0.664	-1.433	0.328	0.012	1.187	1.187	-1.433	0.213
278G	0.054	0.882	0.664	-1.413	0.328	0.012	1.187	1.187	-1.413	0.245
279F	0.421	0.255	1.029	-1.169	0.610	0.029	0.819	1.029	-1.169	0.285
280G	0.421	1.056	0.945	-0.670	0.510	0.630	0.866	1.056	-0.670	0.537
281G	0.819	0.023	0.954	-0.032	0.465	0.613	-0.089	0.954	-0.089	0.393
282P	0.819	-0.809	0.954	0.528	0.465	0.613	-0.089	0.954	-0.809	0.354
283H	1.280	-1.168	1.272	0.563	0.747	0.628	-0.008	1.280	-1.168	0.474
284A	0.338	-1.354	1.197	0.059	0.802	0.633	0.427	1.197	-1.354	0.300
285G	0.111	-1.264	1.206	-0.765	0.847	0.633	-0.584	1.206	-1.264	0.027
286Y	-0.256	-1.891	0.842	-1.469	0.565	0.616	-0.215	0.842	-1.891	-0.258
287L	-0.256	-0.653	0.842	-1.577	0.565	0.616	-0.215	0.842	-1.577	-0.097
288A	-0.256	-0.358	0.842	-1.206	0.565	0.616	-0.215	0.842	-1.206	-0.002
289V	-0.256	-0.358	1.300	-0.639	1.248	1.211	-0.150	1.300	-0.639	0.337
290H	-0.003	0.552	1.206	-0.040	1.185	1.811	-0.215	1.811	-0.215	0.642
291A	0.711	0.952	1.290	0.190	1.175	1.806	-1.660	1.806	-1.660	0.638
292K	0.844	0.748	1.720	0.132	1.649	2.430	-0.651	2.430	-0.651	0.982
293H	1.457	0.275	2.169	-0.035	2.032	2.471	-1.076	2.471	-1.076	1.042
294A	0.743	0.812	1.926	-0.610	1.868	1.857	-0.909	1.926	-0.909	0.812
295R	0.743	1.625	2.169	-0.936	2.142	1.876	0.321	2.169	-0.936	1.134
296Q	0.743	0.608	1.711	-1.106	1.458	1.281	0.257	1.711	-1.106	0.707
297L	0.876	0.021	1.982	-1.257	1.759	1.286	-0.012	1.982	-1.257	0.665
298P	0.161	0.852	1.898	-1.292	1.768	1.291	1.434	1.898	-1.292	0.873
299G	-0.338	0.397	1.346	-1.535	1.285	0.668	2.023	2.023	-1.535	0.550
300R	-0.357	0.626	1.010	-1.962	0.866	0.626	1.860	1.860	-1.962	0.381
301L	-0.009	-0.284	0.973	-2.162	0.847	0.622	2.014	2.014	-2.162	0.286
302V	0.269	0.459	0.879	-1.984	0.729	0.623	1.954	1.954	-1.984	0.418
303G	-0.325	1.411	0.767	-1.592	0.765	0.625	2.542	2.542	-1.592	0.599
304V	0.041	1.323	0.608	-0.808	0.610	0.489	2.534	2.534	-0.808	0.685
305S	1.034	2.046	0.842	-0.042	0.756	0.504	2.259	2.259	-0.042	1.057
306V	1.900	1.682	1.234	0.878	1.084	0.991	1.661	1.900	0.878	1.347
307D	1.900	2.136	1.234	1.431	1.084	0.991	1.661	2.136	0.991	1.491
308S	2.463	1.597	1.552	1.755	1.248	1.009	1.113	2.463	1.009	1.534
309D	2.185	0.335	1.646	1.419	1.367	1.008	1.173	2.185	0.335	1.305
310G	2.551	0.610	1.767	0.896	1.376	1.007	-0.425	2.551	-0.425	1.112
311T	1.799	-0.222	1.748	0.198	1.294	0.537	-0.084	1.799	-0.222	0.753
312P	1.653	-0.713	2.029	-0.422	1.613	1.142	-0.245	2.029	-0.713	0.722
313A	0.440	-1.276	1.674	-1.059	1.303	0.658	0.199	1.674	-1.276	0.277
314Y	0.212	-0.785	1.683	-1.598	1.349	0.658	-0.812	1.683	-1.598	0.101
315R	-0.698	0.113	1.403	-2.077	1.203	0.644	-0.417	1.403	-2.077	0.024
316L	-0.452	0.113	1.487	-2.264	1.303	0.667	-0.474	1.487	-2.264	0.054
317A	-0.256	0.892	1.683	-2.029	1.458	0.687	0.577	1.683	-2.029	0.430
318L	0.130	1.383	1.860	-1.717	1.695	1.292	0.244	1.860	-1.717	0.698
319Q	0.357	1.678	1.758	-1.414	1.586	1.267	0.219	1.758	-1.414	0.779
320T	1.318	0.862	2.169	-1.309	1.950	1.304	-0.053	2.169	-1.309	0.892
321R	1.318	1.185	2.328	-1.036	2.123	1.924	1.224	2.328	-1.036	1.295

322E	1.394	1.185	2.272	-0.750	2.096	1.920	1.111	2.272	-0.750	1.318
323Q	1.280	1.149	2.374	-0.361	2.196	2.503	0.947	2.503	-0.361	1.441
324H	1.217	1.489	2.608	-0.476	2.515	3.107	0.905	3.107	-0.476	1.624
325I	1.584	1.399	2.449	-0.718	2.360	2.972	0.897	2.972	-0.718	1.563
326R	1.451	2.215	2.571	-1.214	2.634	2.967	0.988	2.967	-1.214	1.659
327R	1.205	2.257	2.244	-1.234	2.260	2.924	-0.185	2.924	-1.234	1.353
328D	1.401	2.052	2.281	-1.183	2.242	2.324	-0.412	2.324	-1.183	1.244
329K	2.317	1.189	2.571	-0.748	2.415	2.343	-0.573	2.571	-0.748	1.359
330A	2.494	0.393	2.440	-0.118	2.251	1.759	-0.686	2.494	-0.686	1.219
331T	1.723	0.884	1.870	0.592	1.759	1.136	-0.363	1.870	-0.363	1.086
332S	1.179	0.393	1.384	1.254	1.349	0.665	0.268	1.384	0.268	0.927
333N	1.148	0.029	1.132	1.428	0.866	0.090	0.244	1.428	0.029	0.705
334I	1.148	-0.677	1.132	0.990	0.866	0.090	0.244	1.148	-0.677	0.542
335C	1.198	-0.556	1.262	0.285	1.084	0.112	0.366	1.262	-0.556	0.536
336T	0.553	-0.797	0.991	-0.311	0.920	0.094	0.795	0.991	-0.797	0.321
337A	-0.471	-1.288	0.608	-0.926	0.619	0.059	1.343	1.343	-1.288	-0.008
338Q	-0.547	-1.384	0.664	-1.286	0.647	0.062	1.457	1.457	-1.384	-0.055
339V	-0.503	-2.079	0.879	-1.791	0.738	0.045	-0.176	0.879	-2.079	-0.412
340L	-1.065	-1.983	0.561	-2.163	0.574	0.026	0.372	0.574	-2.163	-0.525
341L	-1.780	-1.779	0.477	-2.323	0.583	0.032	1.817	1.817	-2.323	-0.425
342A	-2.026	-1.688	0.150	-2.411	0.209	-0.011	0.644	0.644	-2.411	-0.733
343V	-1.660	-2.095	0.272	-2.378	0.218	-0.012	-0.955	0.272	-2.378	-0.944
344L	-1.343	-1.999	0.346	-2.419	0.255	-0.001	-1.445	0.346	-2.419	-0.944
345A	-0.882	-0.939	0.683	-2.409	0.483	0.013	-1.548	0.683	-2.409	-0.657
346A	-0.882	-1.346	0.683	-2.422	0.483	0.013	-1.548	0.683	-2.422	-0.717
347M	-0.237	-1.256	0.954	-2.071	0.647	0.032	-1.977	0.954	-2.071	-0.558
348Y	0.225	-0.514	1.290	-1.575	0.875	0.046	-2.080	1.290	-2.080	-0.248
349A	0.225	-0.108	1.449	-0.560	1.048	0.666	-0.802	1.449	-0.802	0.274
350S	0.452	0.519	1.440	0.231	1.002	0.666	0.208	1.440	0.208	0.646
351Y	0.850	0.291	1.449	0.822	0.957	0.648	-0.747	1.449	-0.747	0.610
352H	1.331	0.493	1.188	0.627	0.674	0.629	-1.079	1.331	-1.079	0.552
353G	1.559	0.894	1.178	0.044	0.629	0.629	-0.068	1.559	-0.068	0.695
354A	0.566	0.267	0.945	-0.922	0.483	0.614	0.207	0.945	-0.922	0.309
355G	1.015	-0.058	0.889	-1.365	0.401	0.615	-0.084	1.015	-1.365	0.202
356G	1.015	-0.685	0.730	-1.701	0.228	-0.005	-1.362	1.015	-1.701	-0.254
357L	0.149	-0.498	0.599	-1.694	0.255	-0.003	-1.040	0.599	-1.694	-0.319
358T	0.149	0.519	0.599	-1.795	0.255	-0.003	-1.040	0.599	-1.795	-0.188
359A	0.054	-0.068	1.038	-2.089	0.774	0.622	-1.042	1.038	-2.089	-0.101
360I	-0.041	0.023	1.477	-2.451	1.294	1.246	-1.043	1.477	-2.451	0.072
361A	0.307	0.347	1.440	-2.655	1.276	1.242	-0.889	1.440	-2.655	0.153
362R	0.111	0.437	1.403	-2.326	1.294	1.842	-0.662	1.842	-2.326	0.300
363R	0.111	-0.376	1.403	-1.723	1.294	1.842	-0.662	1.842	-1.723	0.270
364V	0.749	-0.615	1.702	-0.456	1.485	2.460	-0.717	2.460	-0.717	0.658
365H	0.749	-0.518	1.702	0.418	1.485	2.460	-0.717	2.460	-0.717	0.797
366A	0.977	-0.933	1.599	0.921	1.376	2.435	-0.742	2.435	-0.933	0.805
367H	0.844	-0.933	1.169	0.534	0.902	1.811	-1.751	1.811	-1.751	0.368
368A	0.572	-0.396	1.150	-0.326	0.893	1.811	-2.018	1.811	-2.018	0.241
369E	0.572	-0.396	0.991	-1.527	0.720	1.191	-3.296	1.191	-3.296	-0.249
370A	0.800	-1.176	0.982	-2.132	0.674	1.191	-2.286	1.191	-2.286	-0.278
371I	0.800	-0.548	0.823	-2.542	0.501	0.571	-3.563	0.823	-3.563	-0.566
372A	0.085	0.315	0.739	-2.447	0.510	0.577	-2.118	0.739	-2.447	-0.334
373G	-0.047	0.315	0.403	-2.269	0.100	-0.023	-2.091	0.403	-2.269	-0.516
374A	0.452	-0.516	0.674	-1.879	0.419	0.466	-1.090	0.674	-1.879	-0.211
375L	1.091	-0.613	0.814	-1.440	0.437	0.464	-2.422	1.091	-2.422	-0.238
376G	0.376	-0.318	0.730	-0.983	0.446	0.470	-0.977	0.730	-0.983	-0.037
377D	-0.218	-0.406	0.618	-0.843	0.483	0.471	-0.388	0.618	-0.843	-0.041
378A	-0.218	-0.114	0.776	-0.673	0.656	1.091	0.889	1.091	-0.673	0.344
379L	0.996	-0.520	1.132	-0.388	0.966	1.575	0.445	1.575	-0.520	0.601
380V	0.996	-0.490	1.589	0.229	1.649	2.169	0.510	2.169	-0.490	0.950

381H	0.244	0.145	1.571	0.729	1.567	1.700	0.851	1.700	0.145	0.972
382D	-0.471	0.546	1.505	0.845	1.522	1.704	2.112	2.112	-0.471	1.109
383K	0.743	-0.090	1.860	0.558	1.832	2.187	1.668	2.187	-0.090	1.251
384Y	1.306	-1.125	2.178	0.324	1.996	2.206	1.120	2.206	-1.125	1.143
385F	0.939	-0.719	1.898	0.271	1.813	1.587	1.442	1.898	-0.719	1.033
386D	-0.275	0.269	1.543	0.196	1.504	1.104	1.886	1.886	-0.275	0.889
387T	-0.503	-0.366	1.094	-0.182	0.866	0.509	0.810	1.094	-0.503	0.318
388V	-0.117	-0.498	1.272	-1.044	1.103	1.115	0.477	1.272	-1.044	0.330
389L	0.231	0.225	1.216	-1.812	1.139	1.112	0.815	1.216	-1.812	0.418
390A	-0.269	1.243	1.188	-2.148	1.093	0.642	1.044	1.243	-2.148	0.399
391R	-0.237	1.243	0.982	-2.022	0.893	0.622	1.003	1.243	-2.022	0.355
392V	0.263	0.968	1.533	-1.683	1.376	1.245	0.414	1.533	-1.683	0.588
393P	0.977	1.639	1.617	-1.481	1.367	1.240	-1.031	1.639	-1.481	0.618
394G	1.476	1.185	1.889	-1.277	1.686	1.729	-0.030	1.889	-1.277	0.951
395R	1.704	0.353	1.786	-1.210	1.576	1.704	-0.055	1.786	-1.210	0.837
396A	1.704	-0.460	1.786	-0.980	1.576	1.704	-0.055	1.786	-0.980	0.753
397D	0.990	0.353	1.459	-0.998	1.312	1.690	0.160	1.690	-0.998	0.709
398E	0.762	-0.186	1.468	-1.205	1.358	1.690	-0.851	1.690	-1.205	0.434
399V	0.762	0.071	1.468	-1.726	1.358	1.690	-0.851	1.690	-1.726	0.396
400L	0.762	0.167	1.468	-2.133	1.358	1.690	-0.851	1.690	-2.133	0.352
401A	0.490	0.980	1.646	-2.499	1.677	1.796	-0.777	1.796	-2.499	0.473
402R	0.130	1.607	1.318	-2.502	1.312	1.196	-1.761	1.607	-2.502	0.186
403A	0.806	0.469	1.739	-2.022	1.631	1.235	-2.462	1.739	-2.462	0.200
404K	1.748	1.078	1.814	-1.349	1.576	1.230	-2.897	1.814	-2.897	0.457
405A	1.110	0.043	1.674	-0.577	1.558	1.232	-1.565	1.674	-1.565	0.496
406N	1.287	-0.460	1.543	0.213	1.394	0.647	-1.677	1.543	-1.677	0.421
407G	0.572	-0.256	1.459	0.382	1.403	0.653	-0.232	1.459	-0.256	0.569
408I	-0.420	-0.979	1.029	0.289	0.784	0.083	-0.275	1.029	-0.979	0.073
409N	-0.288	-0.116	1.459	-0.099	1.257	0.708	0.734	1.459	-0.288	0.522
410L	-0.964	-0.725	1.038	-0.851	0.938	0.669	1.436	1.436	-0.964	0.220
411W	-0.692	0.019	1.318	-1.294	1.303	1.158	1.427	1.427	-1.294	0.463
412R	-0.054	0.612	1.459	-1.382	1.321	1.156	0.095	1.459	-1.382	0.458
413V	0.136	-0.298	1.431	-0.975	1.330	1.605	0.199	1.605	-0.975	0.490
414D	0.850	0.654	1.674	0.112	1.494	2.219	0.031	2.219	0.031	1.005
415A	1.249	0.019	1.533	0.991	1.467	2.195	0.598	2.195	0.019	1.150
416D	1.394	0.019	1.253	1.663	1.148	1.591	0.758	1.663	0.019	1.118
417H	1.394	-0.484	1.253	1.678	1.148	1.591	0.758	1.678	-0.484	1.048
418V	0.895	-0.036	0.982	1.056	0.829	1.102	-0.243	1.102	-0.243	0.655
419S	0.850	0.636	0.767	0.383	0.738	1.120	1.390	1.390	0.383	0.840
420V	0.850	-0.220	0.767	-0.030	0.738	1.120	1.390	1.390	-0.220	0.659
421A	1.211	0.367	0.935	-0.192	0.929	1.099	1.096	1.211	-0.192	0.778
422C	1.578	0.858	1.057	0.089	0.938	1.098	-0.503	1.578	-0.503	0.731
423D	1.495	1.361	1.103	-0.002	0.938	1.098	-0.622	1.495	-0.622	0.767
424E	2.058	1.313	1.421	-0.221	1.103	1.116	-1.170	2.058	-1.170	0.803
425A	2.558	0.828	1.692	-0.265	1.422	1.605	-0.169	2.558	-0.265	1.096
426T	2.798	0.732	2.103	-0.019	1.668	1.607	-0.750	2.798	-0.750	1.163
427T	2.298	0.241	1.991	0.757	1.522	1.738	-0.474	2.298	-0.474	1.153
428D	1.571	-0.346	1.543	1.371	1.148	1.140	0.141	1.571	-0.346	0.938
429T	1.571	-0.981	1.543	1.559	1.148	1.140	0.141	1.571	-0.981	0.874
430H	1.009	-1.676	1.225	0.941	0.984	1.122	0.689	1.225	-1.676	0.613
431V	0.446	-1.228	0.907	-0.029	0.820	1.103	1.237	1.237	-1.228	0.465
432A	-0.768	-1.131	0.552	-1.193	0.510	0.620	1.681	1.681	-1.193	0.039
433V	-0.465	-1.306	0.627	-1.555	0.674	1.089	1.631	1.631	-1.555	0.099
434V	-0.465	-0.583	0.468	-1.644	0.501	0.469	0.354	0.501	-1.644	-0.129
435L	-0.812	-0.583	0.524	-1.040	0.465	0.472	0.016	0.524	-1.040	-0.137
436D	-0.585	-0.378	0.515	-0.655	0.419	0.472	1.027	1.027	-0.655	0.116
437A	-0.585	-0.917	0.515	-0.560	0.419	0.472	1.027	1.027	-0.917	0.053
438F	-0.218	-0.917	0.636	-0.893	0.428	0.470	-0.572	0.636	-0.917	-0.152
439G	0.496	-0.743	0.720	-1.292	0.419	0.465	-2.017	0.720	-2.017	-0.279

440V	-0.003	-1.011	0.449	-1.811	0.100	-0.024	-3.018	0.449	-3.018	-0.760
441A	-0.003	-0.915	0.449	-2.004	0.100	-0.024	-3.018	0.449	-3.018	-0.774
442A	0.711	-0.825	0.758	-1.978	0.419	-0.010	-3.050	0.758	-3.050	-0.568
443A	0.484	-0.334	0.767	-1.790	0.465	-0.010	-4.060	0.767	-4.060	-0.640
444A	0.850	0.205	1.047	-1.084	0.647	0.609	-4.381	1.047	-4.381	-0.301
445P	1.046	-0.120	1.244	-0.344	0.802	0.629	-3.331	1.244	-3.331	-0.011
446A	1.546	-0.478	1.515	0.678	1.121	1.118	-2.329	1.546	-2.329	0.453
447H	0.907	0.013	1.375	1.129	1.103	1.119	-0.998	1.375	-0.998	0.664
448T	0.907	0.736	1.375	1.122	1.103	1.119	-0.998	1.375	-0.998	0.766
449D	1.103	0.736	1.328	0.367	0.984	1.120	-1.177	1.328	-1.177	0.637
450I	1.236	1.052	1.758	-0.466	1.458	1.745	-0.168	1.758	-0.466	0.945
451A	1.432	1.952	1.795	-1.181	1.440	1.145	-0.394	1.952	-1.181	0.884
452T	1.514	1.778	1.748	-1.099	1.440	1.145	-0.275	1.778	-1.099	0.893
453R	1.375	1.082	1.804	-0.884	1.485	1.256	-0.292	1.804	-0.884	0.832
454T	1.299	0.760	1.879	-0.371	1.458	1.258	-0.363	1.879	-0.371	0.846
455S	0.585	0.359	1.795	-0.286	1.467	1.264	1.082	1.795	-0.286	0.895
456E	0.585	-0.138	1.795	-0.451	1.467	1.264	1.082	1.795	-0.451	0.801
457F	0.452	-0.713	1.524	-0.375	1.166	1.259	1.350	1.524	-0.713	0.666
458L	0.256	-0.713	1.571	-0.000	1.285	1.258	1.530	1.571	-0.713	0.741
459T	-0.022	-0.017	1.421	0.534	1.130	1.238	0.360	1.421	-0.022	0.663
460H	-1.097	-0.017	1.029	1.023	0.720	0.642	0.637	1.029	-1.097	0.419
461P	-0.186	-0.514	1.290	0.856	0.920	0.658	0.427	1.290	-0.514	0.493
462A	0.775	-0.060	1.702	0.415	1.285	0.695	0.155	1.702	-0.060	0.710
463F	0.326	0.431	1.758	-0.019	1.367	0.695	0.446	1.758	-0.019	0.715
464T	0.459	1.181	2.029	-0.431	1.668	0.699	0.178	2.029	-0.431	0.826
465Q	0.655	1.181	1.982	-0.634	1.549	0.700	-0.001	1.982	-0.634	0.776
466Y	1.015	1.545	2.309	-0.947	1.914	1.300	0.983	2.309	-0.947	1.160
467R	1.925	1.838	2.571	-1.145	2.114	1.316	0.772	2.571	-1.145	1.342
468T	2.008	0.910	2.524	-1.008	2.114	1.316	0.891	2.524	-1.008	1.251
469E	1.363	1.233	2.188	-0.769	1.786	1.291	0.673	2.188	-0.769	1.109
470T	1.217	0.251	1.926	-0.665	1.595	1.288	0.286	1.926	-0.665	0.843
471S	1.217	-0.444	1.926	-0.957	1.595	1.288	0.286	1.926	-0.957	0.702
472M	0.768	-0.486	1.982	-1.618	1.677	1.288	0.577	1.982	-1.618	0.598
473M	-0.307	-0.372	1.571	-2.206	1.321	0.694	1.038	1.571	-2.206	0.248
474R	-0.370	-0.462	1.804	-2.471	1.640	1.298	0.997	1.804	-2.471	0.348
475Y	-0.648	-1.276	1.655	-2.530	1.485	1.278	-0.173	1.655	-2.530	-0.030
476L	-0.964	-0.330	1.580	-2.425	1.449	1.267	0.317	1.580	-2.425	0.128
477R	-0.566	0.706	1.589	-2.431	1.403	1.249	-0.638	1.589	-2.431	0.188
478A	-0.199	0.431	1.431	-2.134	1.248	1.114	-0.646	1.431	-2.134	0.178
479L	0.281	0.107	1.627	-1.779	1.649	1.689	-0.913	1.689	-1.779	0.380
480A	1.495	0.311	1.982	-0.934	1.959	2.172	-1.357	2.172	-1.357	0.804
481D	0.724	0.107	1.412	-0.445	1.467	1.550	-1.035	1.550	-1.035	0.540
482K	0.724	0.107	1.412	-0.237	1.467	1.550	-1.035	1.550	-1.035	0.570
483D	0.724	0.089	1.412	-0.667	1.467	1.550	-1.035	1.550	-1.035	0.506
484I	1.224	0.405	1.683	-0.944	1.786	2.038	-0.034	2.038	-0.944	0.880
485A	0.857	0.616	1.842	-1.361	1.941	2.174	-0.025	2.174	-1.361	0.863
486L	0.907	0.291	1.543	-0.865	1.458	1.600	0.069	1.600	-0.865	0.715
487D	0.010	0.854	1.262	-0.698	1.185	1.128	0.023	1.262	-0.698	0.538
488R	0.010	0.111	1.262	-0.541	1.185	1.128	0.023	1.262	-0.541	0.454
489S	0.010	-0.076	1.505	-0.875	1.458	1.147	1.253	1.505	-0.875	0.632
490M	0.010	-0.076	1.505	-1.311	1.458	1.147	1.253	1.505	-1.311	0.570
491I	-0.262	0.075	1.225	-1.706	1.093	0.658	1.262	1.262	-1.706	0.335
492P	-0.117	0.890	0.945	-1.423	0.774	0.053	1.423	1.423	-1.423	0.364
493L	-0.439	0.417	0.580	-0.995	0.528	0.051	1.886	1.886	-0.995	0.290
494G	0.155	1.453	0.786	-0.254	0.638	0.054	1.982	1.982	-0.254	0.688
495S	0.395	0.622	0.917	0.203	0.701	0.069	1.605	1.605	0.069	0.645
496C	0.623	0.375	1.122	0.047	1.066	0.645	1.450	1.450	0.047	0.761
497T	0.623	0.339	1.122	-0.630	1.066	0.645	1.450	1.450	-0.630	0.659
498M	0.705	-0.152	1.431	-1.045	1.422	0.685	1.336	1.431	-1.045	0.626

499K	0.427	-0.038	1.281	-1.210	1.267	0.665	0.166	1.281	-1.210	0.366
500L	0.471	-0.294	1.496	-0.679	1.358	0.648	-1.466	1.496	-1.466	0.219
501N	0.275	-0.204	1.300	-0.360	1.203	0.628	-2.517	1.300	-2.517	0.046
502A	1.034	-0.238	1.636	-0.493	1.522	1.210	-2.488	1.636	-2.488	0.312
503A	0.408	0.618	1.178	-1.286	0.929	0.633	-2.608	1.178	-2.608	-0.018
504A	1.483	0.293	1.589	-1.965	1.285	1.227	-3.069	1.589	-3.069	0.120
505E	1.451	0.784	1.440	-2.333	1.130	1.206	-2.797	1.451	-2.797	0.126
506M	0.813	-0.294	1.300	-2.170	1.112	1.208	-1.465	1.300	-2.170	0.072
507E	1.009	0.179	1.496	-1.656	1.267	1.228	-0.414	1.496	-1.656	0.444
508S	0.244	0.179	1.515	-1.342	1.285	1.253	0.619	1.515	-1.342	0.536
509I	-0.117	-0.851	1.431	-1.050	1.194	0.673	0.865	1.431	-1.050	0.306
510T	0.642	0.101	1.767	-1.073	1.513	1.255	0.894	1.767	-1.073	0.728
511W	-0.433	0.423	1.375	-0.934	1.103	0.660	1.171	1.375	-0.934	0.481
512P	-0.484	1.417	1.216	-1.031	0.902	0.640	1.012	1.417	-1.031	0.525
513E	0.288	1.149	1.786	-0.993	1.394	1.262	0.689	1.786	-0.993	0.796
514F	0.338	0.932	1.917	-1.194	1.613	1.285	0.812	1.917	-1.194	0.815
515G	1.103	0.932	2.057	-0.935	1.768	1.880	1.057	2.057	-0.935	1.123
516R	1.103	0.305	2.057	-0.476	1.768	1.880	1.057	2.057	-0.476	1.099
517Q	0.029	-0.150	1.664	0.440	1.358	1.284	1.334	1.664	-0.150	0.851
518H	0.743	-0.641	1.730	0.964	1.403	1.280	0.073	1.730	-0.641	0.793
519P	0.515	0.125	1.982	1.035	1.722	1.299	0.293	1.982	0.125	0.996
520F	0.383	0.305	1.552	0.456	1.248	0.674	-0.717	1.552	-0.717	0.557
521A	0.414	0.970	1.375	0.036	1.030	0.652	-0.720	1.375	-0.720	0.537
522P	0.914	0.970	1.487	-0.060	1.175	0.521	-0.997	1.487	-0.997	0.573
523A	1.110	1.239	1.440	0.430	1.057	0.522	-1.176	1.440	-1.176	0.660
524S	1.824	1.034	1.505	0.828	1.103	0.518	-2.437	1.824	-2.437	0.625
525D	2.052	0.992	1.496	0.880	1.057	0.518	-1.427	2.052	-1.427	0.795
526T	1.337	0.944	1.169	0.185	0.793	0.504	-1.212	1.337	-1.212	0.532
527A	1.470	0.249	1.599	-0.724	1.267	1.129	-0.202	1.599	-0.724	0.684
528G	1.438	0.153	1.776	-1.529	1.485	1.151	-0.199	1.776	-1.529	0.611
529L	0.225	-0.474	1.421	-1.986	1.175	0.668	0.245	1.421	-1.986	0.182
530R	-0.338	0.269	1.103	-2.033	1.011	0.649	0.793	1.103	-2.033	0.208
531Q	-0.338	-0.749	1.103	-1.981	1.011	0.649	0.793	1.103	-1.981	0.070
532L	-0.066	-0.749	1.384	-1.697	1.376	1.138	0.784	1.384	-1.697	0.310
533V	-0.066	0.311	1.384	-1.448	1.376	1.138	0.784	1.384	-1.448	0.497
534A	0.048	-0.096	1.281	-0.928	1.276	0.556	0.948	1.281	-0.928	0.441
535D	0.079	-0.300	1.103	-0.462	1.057	0.534	0.945	1.103	-0.462	0.422
536L	0.029	-0.935	1.206	-0.152	1.066	0.553	0.532	1.206	-0.935	0.328
537Q	-0.319	-0.935	1.244	-0.177	1.084	0.557	0.378	1.244	-0.935	0.262
538S	-0.686	-1.751	1.122	-0.478	1.075	0.559	1.977	1.977	-1.751	0.260
539W	-1.900	-2.115	0.767	-1.175	0.765	0.075	2.421	2.421	-2.115	-0.166
540L	-1.824	-0.985	0.711	-1.839	0.738	0.072	2.308	2.308	-1.839	-0.117
541V	-1.874	-1.188	0.580	-2.241	0.519	0.049	2.185	2.185	-2.241	-0.281
542L	-1.925	-0.552	0.421	-2.408	0.319	0.029	2.025	2.025	-2.408	-0.299
543I	-1.413	-0.348	0.655	-2.075	0.537	0.023	2.335	2.335	-2.075	-0.041
544T	-0.199	-0.120	1.010	-1.440	0.847	0.507	1.891	1.891	-1.440	0.357
545G	0.168	0.245	1.132	-0.855	0.856	0.505	0.293	1.132	-0.855	0.335
546Y	0.515	-0.587	1.094	-0.431	0.838	0.501	0.446	1.094	-0.587	0.340
547D	1.432	0.311	1.384	-0.144	1.011	0.520	0.284	1.432	-0.144	0.685
548A	0.522	0.131	1.103	-0.311	0.866	0.505	0.679	1.103	-0.311	0.499
549V	0.541	0.740	1.440	-0.400	1.285	0.548	0.842	1.440	-0.400	0.713
550S	0.794	0.836	1.431	-0.394	1.321	0.547	0.730	1.431	-0.394	0.752
551L	0.604	0.608	1.459	-0.001	1.312	0.099	0.625	1.459	-0.001	0.672
552Q	0.604	1.668	1.459	0.514	1.312	0.099	0.625	1.668	0.099	0.897
553P	1.198	1.668	1.571	1.065	1.276	0.097	0.037	1.668	0.037	0.987
554N	1.198	1.936	1.571	1.128	1.276	0.097	0.037	1.936	0.037	1.035
555A	2.159	1.902	1.982	0.932	1.640	0.134	-0.235	2.159	-0.235	1.216
556G	2.140	1.495	1.646	0.460	1.221	0.092	-0.398	2.140	-0.398	0.951
557S	2.501	0.868	1.730	0.059	1.312	0.672	-0.644	2.501	-0.644	0.928

558Q	1.938	0.640	1.683	-0.458	1.239	0.651	-0.199	1.938	-0.458	0.785
559G	1.938	-0.056	1.683	-0.917	1.239	0.651	-0.199	1.938	-0.917	0.620
560E	1.938	-0.887	1.683	-1.342	1.239	0.651	-0.199	1.938	-1.342	0.440
561Y	0.945	-1.462	1.449	-1.735	1.093	0.637	0.076	1.449	-1.735	0.143
562A	-0.016	-1.380	1.038	-1.906	0.729	0.600	0.348	1.038	-1.906	-0.084
563G	-0.243	-1.290	1.047	-2.075	0.774	0.600	-0.662	1.047	-2.075	-0.264
564L	-1.242	-1.342	0.580	-2.303	0.392	0.002	-0.314	0.580	-2.303	-0.604
565L	-0.989	-1.544	0.487	-2.107	0.328	0.602	-0.379	0.602	-2.107	-0.515
566A	-0.629	-1.250	0.814	-1.747	0.692	1.202	0.605	1.202	-1.747	-0.045
567I	-1.109	-1.250	1.075	-1.047	0.975	1.221	0.936	1.221	-1.250	0.115
568H	-0.395	-0.070	1.318	-0.217	1.139	1.836	0.769	1.836	-0.395	0.626
569E	0.319	0.654	1.403	0.296	1.130	1.830	-0.676	1.830	-0.676	0.708
570Y	0.598	0.706	1.552	0.717	1.285	1.850	0.494	1.850	0.494	1.029
571H	1.369	1.688	2.122	0.819	1.777	2.473	0.171	2.473	0.171	1.488
572A	1.597	1.956	1.954	0.472	1.558	1.853	-0.096	1.956	-0.096	1.328
573S	1.597	2.046	1.954	-0.143	1.558	1.853	-0.096	2.046	-0.143	1.253
574R	1.849	2.004	1.945	-0.682	1.595	1.853	-0.208	2.004	-0.682	1.194
575G	1.849	1.730	1.945	-0.871	1.595	1.853	-0.208	1.945	-0.871	1.127
576E	1.982	0.778	2.374	-0.405	2.069	2.478	0.801	2.478	-0.405	1.440
577P	2.203	0.239	2.496	0.366	2.233	2.947	0.632	2.947	0.239	1.588
578H	1.432	-0.324	1.926	0.744	1.741	2.324	0.955	2.324	-0.324	1.257
579R	1.160	-0.739	1.720	0.748	1.695	2.341	1.577	2.341	-0.739	1.215
580D	0.085	-1.194	1.309	0.162	1.339	1.747	2.038	2.038	-1.194	0.784
581I	-0.553	-0.877	0.926	-0.482	1.048	1.730	2.140	2.140	-0.877	0.562
582C	-0.553	0.303	1.010	-1.129	1.148	1.129	2.093	2.093	-1.129	0.572
583L	-0.408	0.267	0.730	-1.107	0.829	0.525	2.253	2.253	-1.107	0.441
584I	-0.629	0.562	0.608	-0.795	0.665	0.056	2.422	2.422	-0.795	0.413
585P	0.010	1.513	0.748	-0.001	0.683	0.054	1.090	1.513	-0.001	0.585
586S	0.054	1.646	1.122	0.867	0.948	0.656	0.735	1.646	0.054	0.861
587S	0.996	1.399	1.197	1.247	0.893	0.651	0.301	1.399	0.301	0.955
588A	1.830	0.544	1.533	1.376	1.066	0.669	0.020	1.830	0.020	1.005
589H	2.140	0.544	1.589	1.384	1.103	0.690	-0.313	2.140	-0.313	1.020
590G	1.862	1.309	1.440	1.347	0.948	0.670	-1.483	1.862	-1.483	0.870
591T	1.584	0.682	1.290	1.230	0.793	0.650	-2.653	1.584	-2.653	0.511
592N	1.862	0.191	1.440	1.149	0.948	0.670	-1.483	1.862	-1.483	0.682
593A	1.862	-0.623	1.281	0.518	0.774	0.050	-2.761	1.862	-2.761	0.158
594A	1.634	-0.623	1.290	-0.002	0.820	0.050	-3.771	1.634	-3.771	-0.086
595S	0.724	0.005	1.010	-0.567	0.674	0.036	-3.377	1.010	-3.377	-0.214
596A	0.414	-0.965	0.711	-1.228	0.364	-0.005	-4.274	0.711	-4.274	-0.712
597A	0.642	-0.152	0.702	-1.664	0.319	-0.005	-3.264	0.702	-3.264	-0.489
598L	0.244	-0.248	0.692	-2.045	0.364	0.012	-2.309	0.692	-2.309	-0.470
599A	0.098	-0.140	0.973	-2.390	0.683	0.617	-2.469	0.973	-2.469	-0.375
600G	-0.269	-0.236	0.851	-2.520	0.674	0.619	-0.870	0.851	-2.520	-0.250
601M	-0.635	-0.959	0.730	-2.636	0.665	0.620	0.728	0.730	-2.636	-0.212
602R	-0.288	-0.306	0.692	-2.649	0.647	0.616	0.882	0.882	-2.649	-0.058
603V	-0.654	-1.083	0.571	-2.541	0.638	0.618	2.481	2.481	-2.541	0.004
604V	-0.382	-0.897	0.851	-2.108	1.002	1.107	2.472	2.472	-2.108	0.292
605V	-0.028	-0.262	0.646	-1.405	0.866	1.107	3.149	3.149	-1.405	0.582
606V	-0.161	0.443	0.375	-0.206	0.565	1.103	3.417	3.417	-0.206	0.791
607D	0.705	1.167	0.767	1.120	0.893	1.590	2.820	2.820	0.705	1.294
608C	1.382	1.167	1.188	2.576	1.212	1.629	2.118	2.576	1.167	1.610
609H	1.976	1.034	1.300	3.309	1.175	1.628	1.530	3.309	1.034	1.707
610D	2.842	1.483	1.692	3.652	1.504	2.115	0.932	3.652	0.932	2.031
611N	1.976	0.740	1.300	2.950	1.175	1.628	1.530	2.950	0.740	1.614
612G	2.520	0.670	1.786	2.283	1.586	2.099	0.898	2.520	0.670	1.692
613D	1.805	0.582	1.543	1.244	1.422	1.484	1.066	1.805	0.582	1.306
614V	1.805	-0.162	1.543	0.899	1.422	1.484	1.066	1.805	-0.162	1.151
615D	1.995	0.748	1.515	0.716	1.431	1.933	1.170	1.995	0.716	1.358
616L	1.053	0.209	1.440	0.953	1.485	1.938	1.605	1.938	0.209	1.240

617D	0.686	1.245	1.599	0.777	1.640	2.074	1.613	2.074	0.686	1.376
618D	1.053	0.610	1.720	0.364	1.649	2.072	0.014	2.072	0.014	1.069
619L	0.781	0.698	1.898	-0.694	1.968	2.178	0.088	2.178	-0.694	0.988
620R	1.129	1.477	1.860	-1.572	1.950	2.174	0.242	2.174	-1.572	1.037
621A	0.857	0.754	1.580	-2.198	1.586	1.685	0.251	1.685	-2.198	0.645
622K	0.718	0.754	1.636	-2.404	1.631	1.796	0.234	1.796	-2.404	0.623
623V	1.432	0.497	1.879	-1.860	1.795	2.410	0.066	2.410	-1.860	0.889
624G	1.299	1.407	1.449	-1.268	1.321	1.785	-0.943	1.785	-1.268	0.722
625E	1.660	0.576	1.776	-0.599	1.686	2.385	0.040	2.385	-0.599	1.075
626H	1.565	0.856	1.758	-0.414	1.522	2.415	-0.025	2.415	-0.414	1.097
627A	1.217	0.766	1.795	-0.776	1.540	2.419	-0.179	2.419	-0.776	0.969
628E	1.268	0.562	1.954	-1.300	1.741	2.439	-0.020	2.439	-1.300	0.949
629R	0.907	-0.128	1.627	-1.525	1.376	1.839	-1.003	1.839	-1.525	0.442
630L	0.193	-1.266	1.384	-1.509	1.212	1.225	-0.836	1.384	-1.509	0.058
631S	-0.205	-0.570	1.375	-1.363	1.257	1.242	0.119	1.375	-1.363	0.265
632A	-1.204	-1.833	0.907	-1.647	0.875	0.644	0.467	0.907	-1.833	-0.256
633L	-1.141	-1.474	0.674	-2.123	0.556	0.040	0.509	0.674	-2.123	-0.423
634M	-0.680	-0.414	1.010	-2.373	0.784	0.054	0.406	1.010	-2.373	-0.173
635I	-0.958	0.191	1.103	-2.134	0.902	0.052	0.466	1.103	-2.134	-0.054
636T	-0.680	0.606	1.253	-1.253	1.057	0.073	1.636	1.636	-1.253	0.385
637Y	0.231	0.742	1.533	-0.285	1.203	0.087	1.242	1.533	-0.285	0.679
638P	0.629	1.052	1.702	0.765	1.330	0.690	1.564	1.702	0.629	1.105
639S	1.495	0.287	1.832	1.391	1.303	0.688	1.243	1.832	0.287	1.177
640T	0.933	0.007	1.515	1.517	1.139	0.670	1.791	1.791	0.007	1.081
641H	0.933	-0.394	1.515	1.093	1.139	0.670	1.791	1.791	-0.394	0.964
642G	1.293	0.055	1.599	0.208	1.230	1.250	1.545	1.599	0.055	1.026
643V	1.015	-0.897	1.608	-0.404	1.248	1.850	1.652	1.850	-0.897	0.867
644Y	1.318	-0.801	1.683	-0.266	1.412	2.319	1.602	2.319	-0.801	1.038
645E	0.680	0.181	1.384	0.180	1.221	1.701	1.657	1.701	0.180	1.000
646H	0.452	-0.719	1.393	0.688	1.267	1.701	0.646	1.701	-0.719	0.776
647D	1.179	-0.773	1.842	0.412	1.640	2.299	0.031	2.299	-0.773	0.947
648I	0.794	-1.312	1.449	-0.645	1.385	2.281	0.021	2.281	-1.312	0.568
649A	0.389	-0.987	0.907	-1.492	0.929	1.700	0.669	1.700	-1.492	0.302
650E	0.389	-1.083	0.748	-2.040	0.756	1.080	-0.608	1.080	-2.040	-0.108
651I	-0.111	-1.568	0.477	-1.957	0.437	0.591	-1.609	0.591	-1.957	-0.534
652C	0.161	-0.705	0.496	-1.671	0.446	0.591	-1.342	0.591	-1.671	-0.289
653A	0.161	-0.741	0.655	-1.217	0.619	1.210	-0.065	1.210	-1.217	0.089
654A	0.300	-0.114	0.599	-0.619	0.574	1.100	-0.047	1.100	-0.619	0.256
655V	0.939	0.513	0.739	0.258	0.592	1.098	-1.379	1.098	-1.379	0.394
656H	1.211	1.101	0.945	0.825	0.638	1.080	-2.001	1.211	-2.001	0.543
657D	1.438	0.914	0.935	0.832	0.592	1.080	-0.991	1.438	-0.991	0.686
658A	1.685	-0.032	1.262	0.187	0.966	1.123	0.183	1.685	-0.032	0.768
659G	1.685	-0.128	1.262	-0.596	0.966	1.123	0.183	1.685	-0.596	0.642
660G	1.432	-0.216	1.356	-1.138	1.030	0.522	0.247	1.432	-1.138	0.462
661Q	0.566	-0.216	0.963	-1.376	0.701	0.035	0.845	0.963	-1.376	0.217
662V	1.065	-0.707	1.234	-1.132	1.020	0.524	1.846	1.846	-1.132	0.550
663Y	1.065	-0.001	1.234	-0.951	1.020	0.524	1.846	1.846	-0.951	0.677
664V	0.838	0.201	1.244	-0.628	1.066	0.524	0.836	1.244	-0.628	0.583
665D	0.901	0.906	1.216	-0.132	1.002	0.522	0.560	1.216	-0.132	0.711
666G	0.553	0.367	1.253	0.177	1.020	0.526	0.406	1.253	0.177	0.615
667A	1.116	-0.464	1.300	0.808	1.093	0.547	-0.039	1.300	-0.464	0.623
668N	1.483	-0.560	1.421	1.204	1.103	0.545	-1.638	1.483	-1.638	0.508
669L	0.269	-0.542	1.066	1.292	0.793	0.062	-1.194	1.292	-1.194	0.249
670N	-0.325	-0.542	0.954	0.771	0.829	0.063	-0.606	0.954	-0.606	0.163
671A	-0.098	-1.152	0.945	-0.051	0.784	0.063	0.405	0.945	-1.152	0.128
672L	-1.122	-0.338	0.561	-1.255	0.483	0.028	0.953	0.953	-1.255	-0.099
673V	-0.408	0.225	0.646	-1.763	0.474	0.023	-0.492	0.646	-1.763	-0.185
674G	-0.585	0.948	0.776	-2.257	0.638	0.607	-0.380	0.948	-2.257	-0.036
675L	-0.585	1.153	1.019	-2.127	0.911	0.626	0.850	1.153	-2.127	0.264

676A	0.357	1.183	1.094	-1.955	0.856	0.620	0.415	1.183	-1.955	0.367
677R	0.952	1.810	1.664	-1.682	1.504	1.214	-0.109	1.810	-1.682	0.765
678P	0.010	1.623	1.608	-1.416	1.504	1.218	0.142	1.623	-1.416	0.670
679G	0.952	1.804	1.683	-1.284	1.449	1.212	-0.292	1.804	-1.284	0.789
680K	1.179	1.080	1.674	-1.293	1.403	1.212	0.718	1.674	-1.293	0.853
681F	1.546	1.105	1.515	-1.031	1.248	1.077	0.710	1.546	-1.031	0.881
682G	1.179	1.369	1.150	-0.839	0.966	1.059	1.079	1.369	-0.839	0.852
683G	1.230	0.538	1.309	-0.278	1.166	1.079	1.238	1.309	-0.278	0.897
684D	1.002	0.519	1.019	0.451	0.701	1.104	1.440	1.440	0.451	0.891
685V	1.002	-0.224	1.001	0.957	0.756	1.106	1.624	1.624	-0.224	0.889
686S	1.084	-0.038	1.309	1.671	1.112	1.146	1.511	1.671	-0.038	1.114
687H	0.142	-0.062	1.234	1.870	1.166	1.152	1.946	1.946	-0.062	1.064
688L	-0.357	0.339	1.122	2.020	1.020	1.283	2.222	2.222	-0.357	1.093
689N	0.237	0.369	1.692	1.763	1.668	1.876	1.698	1.876	0.237	1.329
690L	0.155	-0.204	1.739	1.501	1.668	1.876	1.579	1.876	-0.204	1.188
691H	-0.559	-0.324	1.515	0.857	1.449	1.260	1.563	1.563	-0.559	0.823
692K	0.111	-0.056	1.384	0.650	1.349	1.272	1.750	1.750	-0.056	0.923
693T	-0.838	-0.797	0.945	-0.011	1.020	1.233	2.185	2.185	-0.838	0.534
694F	-0.123	-0.661	1.272	-0.047	1.285	1.247	1.970	1.970	-0.661	0.706
695C	-0.123	0.141	1.272	-0.103	1.285	1.247	1.970	1.970	-0.123	0.813
696I	-0.123	0.732	0.814	0.217	0.601	0.652	1.905	1.905	-0.123	0.685
697P	-0.092	1.684	0.608	0.511	0.401	0.632	1.865	1.865	-0.092	0.801
698H	0.850	1.684	0.664	0.553	0.401	0.628	1.614	1.684	0.401	0.913
699G	1.122	2.221	0.870	0.060	0.446	0.610	0.992	2.221	0.060	0.903
700G	1.761	1.497	1.253	-0.465	0.738	0.628	0.890	1.761	-0.465	0.900
701G	1.989	1.497	1.001	-0.899	0.419	0.609	0.671	1.989	-0.899	0.755
702G	1.622	1.229	0.720	-1.083	0.237	-0.010	0.992	1.622	-1.083	0.530
703P	1.622	0.505	0.720	-1.036	0.237	-0.010	0.992	1.622	-1.036	0.433
704G	1.394	0.147	0.973	-1.033	0.556	0.009	1.212	1.394	-1.033	0.465
705V	0.800	-0.576	0.860	-1.147	0.592	0.011	1.800	1.800	-1.147	0.334
706G	0.572	0.333	0.870	-1.140	0.638	0.011	0.790	0.870	-1.140	0.296
707P	0.206	-0.294	0.505	-1.271	0.355	-0.006	1.158	1.158	-1.271	0.093
708V	0.111	-0.562	0.945	-1.504	0.875	0.618	1.157	1.157	-1.504	0.234
709A	0.477	-0.671	1.066	-1.879	0.884	0.617	-0.442	1.066	-1.879	0.007
710V	0.250	-0.671	1.234	-1.774	1.103	1.236	-0.175	1.236	-1.774	0.172
711R	-0.465	-0.216	0.907	-1.498	0.838	1.223	0.040	1.223	-1.498	0.119
712A	-0.098	-1.204	1.029	-0.826	0.847	1.221	-1.558	1.221	-1.558	-0.084
713H	-0.098	-1.408	1.272	-0.366	1.121	1.240	-0.328	1.272	-1.408	0.205
714L	-0.446	-1.140	1.328	-0.240	1.084	1.243	-0.666	1.328	-1.140	0.166
715A	-1.293	-0.308	0.814	-0.442	0.619	0.624	-0.230	0.814	-1.293	-0.031
716P	-1.293	-0.218	1.057	-0.451	0.893	0.643	1.000	1.057	-1.293	0.233
717F	-1.065	-0.218	0.889	-0.667	0.674	0.023	0.733	0.889	-1.065	0.053
718L	-0.351	-0.218	1.132	-0.276	0.838	0.637	0.565	1.132	-0.351	0.333
719P	-0.351	-0.013	1.375	0.166	1.112	0.656	1.795	1.795	-0.351	0.677
720G	-1.065	-0.013	1.066	0.798	0.793	0.641	1.827	1.827	-1.065	0.578
721H	-0.351	-0.066	1.132	1.085	0.838	0.637	0.565	1.132	-0.351	0.549
722P	0.364	-0.360	1.459	1.077	1.103	0.651	0.350	1.459	-0.360	0.663
723F	0.724	-0.360	1.543	0.360	1.194	1.231	0.104	1.543	-0.360	0.685
724A	-0.218	0.646	1.468	-0.288	1.248	1.237	0.539	1.468	-0.288	0.662
725P	-0.218	1.273	1.552	-0.883	1.349	0.636	0.491	1.552	-0.883	0.600
726E	0.010	0.507	1.758	-1.183	1.713	1.212	0.336	1.758	-1.183	0.622
727L	0.952	0.291	1.814	-1.319	1.713	1.207	0.086	1.814	-1.319	0.678
728P	0.699	0.399	2.066	-1.338	1.950	1.227	1.428	2.066	-1.338	0.919
729K	0.699	0.896	2.066	-1.279	1.950	1.227	1.428	2.066	-1.279	0.998
730G	-0.028	0.920	1.617	-1.169	1.576	0.629	2.043	2.043	-1.169	0.798
731Y	0.964	0.293	1.851	-0.740	1.722	0.643	1.768	1.851	-0.740	0.929
732P	1.242	1.058	1.758	-0.282	1.604	0.644	1.708	1.758	-0.282	1.105
733V	1.015	0.293	1.309	0.245	0.966	0.050	0.632	1.309	0.050	0.644
734S	0.787	1.016	1.561	0.617	1.285	0.069	0.852	1.561	0.069	0.884

735S	0.787	1.016	1.561	0.623	1.285	0.069	0.852	1.561	0.069	0.885
736A	1.015	0.161	1.309	0.258	0.966	0.050	0.632	1.309	0.050	0.627
737P	1.660	1.016	1.580	0.029	1.130	0.068	0.203	1.660	0.029	0.812
738Y	1.382	0.333	1.431	-0.256	0.975	0.048	-0.966	1.431	-0.966	0.421
739G	1.382	0.536	1.431	-0.136	0.975	0.048	-0.966	1.431	-0.966	0.467
740S	0.743	0.267	1.290	-0.083	0.957	0.050	0.365	1.290	-0.083	0.513
741A	0.029	-0.913	0.963	-0.256	0.692	0.037	0.580	0.963	-0.913	0.162
742S	0.281	-0.422	0.954	-0.620	0.729	0.036	0.468	0.954	-0.620	0.204
743I	-0.585	-1.781	0.823	-1.101	0.756	0.038	0.790	0.823	-1.781	-0.151
744L	-0.667	-1.456	0.870	-1.442	0.756	0.038	0.671	0.870	-1.456	-0.176
745P	-1.432	-1.658	0.889	-1.500	0.774	0.063	1.703	1.703	-1.658	-0.166
746I	-1.710	-2.342	0.739	-1.589	0.619	0.043	0.533	0.739	-2.342	-0.530
747T	-1.324	-1.204	1.132	-1.590	0.875	0.061	0.543	1.132	-1.590	-0.215
748W	-1.249	-1.809	1.075	-1.740	0.847	0.057	0.430	1.075	-1.809	-0.341
749A	-1.116	-1.420	1.262	-2.060	1.048	0.663	0.209	1.262	-2.060	-0.202
750Y	-0.876	-0.793	1.393	-2.339	1.112	0.678	-0.168	1.393	-2.339	-0.142
751I	-1.470	-0.386	1.188	-2.793	1.002	0.675	-0.264	1.188	-2.793	-0.293
752R	-0.477	0.513	1.160	-3.050	0.938	0.650	-0.286	1.160	-3.050	-0.079
753M	-0.477	0.327	1.160	-3.104	0.938	0.650	-0.286	1.160	-3.104	-0.113
754M	0.136	0.237	1.234	-2.954	1.066	1.230	-0.644	1.234	-2.954	0.044
755G	1.002	1.165	1.365	-2.594	1.039	1.228	-0.965	1.365	-2.594	0.320
756A	0.155	0.538	0.851	-2.346	0.574	0.609	-0.529	0.851	-2.346	-0.021
757E	0.686	0.538	1.290	-2.244	1.002	1.217	-0.475	1.290	-2.244	0.288
758G	1.084	0.818	1.300	-2.263	0.957	1.199	-1.430	1.300	-2.263	0.238
759L	0.857	-0.013	1.309	-2.374	1.002	1.199	-2.440	1.309	-2.440	-0.066
760R	1.135	0.682	1.459	-2.151	1.157	1.220	-1.270	1.459	-2.151	0.319
761A	0.060	-0.132	1.047	-1.813	0.802	0.625	-0.809	1.047	-1.813	-0.031
762A	0.029	-0.456	1.253	-1.217	1.002	0.645	-0.769	1.253	-1.217	0.070
763S	0.743	0.035	1.337	-0.862	0.993	0.640	-2.214	1.337	-2.214	0.096
764L	-0.028	0.035	0.767	-0.872	0.501	0.017	-1.891	0.767	-1.891	-0.210
765T	0.168	0.239	0.963	-1.177	0.656	0.037	-0.840	0.963	-1.177	0.006
766A	0.446	0.357	1.113	-1.254	0.811	0.057	0.330	1.113	-1.254	0.266
767I	0.168	-0.050	0.963	-1.224	0.656	0.037	-0.840	0.963	-1.224	-0.041
768T	1.192	-0.050	1.346	-0.327	0.957	0.072	-1.388	1.346	-1.388	0.257
769S	0.743	-0.540	1.403	0.393	1.039	0.072	-1.097	1.403	-1.097	0.287
770A	0.104	-0.583	1.262	0.870	1.020	0.073	0.235	1.262	-0.583	0.426
771N	0.743	0.231	1.403	0.652	1.039	0.072	-1.097	1.403	-1.097	0.435
772Y	0.680	-0.583	1.636	-0.232	1.358	0.676	-1.139	1.636	-1.139	0.342
773I	0.534	0.363	1.917	-1.440	1.677	1.281	-1.299	1.917	-1.440	0.433
774A	-0.180	1.263	1.832	-2.200	1.686	1.286	0.146	1.832	-2.200	0.548
775R	0.010	0.856	1.804	-2.425	1.695	1.735	0.250	1.804	-2.425	0.561
776R	0.623	-0.364	1.879	-2.071	1.823	2.315	-0.109	2.315	-2.071	0.585
777L	1.009	-0.819	2.272	-1.369	2.078	2.332	-0.098	2.332	-1.369	0.772
778D	0.756	-0.711	2.524	-0.935	2.315	2.352	1.244	2.524	-0.935	1.078
779E	0.623	-1.454	2.337	-0.633	2.114	1.746	1.465	2.337	-1.454	0.885
780Y	0.123	-2.436	1.786	-0.686	1.631	1.123	2.054	2.054	-2.436	0.514
781Y	0.123	-1.538	1.786	-0.745	1.631	1.123	2.054	2.054	-1.538	0.633
782P	-0.629	-0.504	1.767	-1.037	1.549	0.653	2.395	2.395	-1.037	0.599
783V	-0.793	-0.288	1.636	-1.142	1.339	0.074	2.462	2.462	-1.142	0.470
784L	-0.313	0.417	1.375	-1.289	1.057	0.054	2.131	2.131	-1.289	0.490
785Y	0.300	1.249	1.449	-1.272	1.185	0.635	1.772	1.772	-1.272	0.760
786T	0.610	1.541	1.505	-0.860	1.221	0.656	1.439	1.541	-0.860	0.873
787G	1.205	0.954	1.617	-0.415	1.185	0.655	0.851	1.617	-0.415	0.865
788E	1.521	0.327	1.692	0.003	1.221	0.666	0.361	1.692	0.003	0.827
789N	1.407	-0.158	1.318	-0.033	0.975	0.649	0.617	1.407	-0.158	0.682
790G	1.211	-0.192	1.122	-0.583	0.820	0.629	-0.434	1.211	-0.583	0.368
791M	0.983	-0.783	1.290	-1.008	1.039	1.249	-0.166	1.290	-1.008	0.372
792V	0.983	-0.993	1.290	-1.075	1.039	1.249	-0.166	1.290	-1.075	0.332
793A	0.629	-1.101	0.776	-0.595	0.638	1.226	0.569	1.226	-1.101	0.306

794H	-0.237	-0.562	0.646	-0.141	0.665	1.228	0.890	1.228	-0.562	0.355
795E	-0.553	-0.857	0.571	-0.122	0.629	1.216	1.380	1.380	-0.857	0.323
796C	0.313	-0.619	0.963	-0.527	0.957	1.703	0.783	1.703	-0.619	0.510
797I	-0.401	-0.028	0.879	-0.882	0.966	1.709	2.228	2.228	-0.882	0.639
798L	-0.269	-0.028	1.150	-1.154	1.267	1.713	1.960	1.960	-1.154	0.663
799D	-0.401	0.668	0.814	-1.102	0.856	1.114	1.986	1.986	-1.102	0.562
800L	-0.996	0.960	0.889	-1.475	0.929	1.098	1.686	1.686	-1.475	0.442
801R	-0.161	0.960	1.225	-1.776	1.103	1.116	1.405	1.405	-1.776	0.553
802G	0.781	0.638	1.758	-2.046	1.731	1.705	1.035	1.758	-2.046	0.800
803I	-0.433	0.638	1.403	-2.174	1.422	1.222	1.479	1.479	-2.174	0.508
804T	0.477	0.638	1.683	-1.962	1.567	1.236	1.084	1.683	-1.962	0.675
805K	0.572	0.638	1.244	-1.761	1.048	0.612	1.086	1.244	-1.761	0.491
806L	-0.294	-0.290	1.113	-1.733	1.075	0.613	1.407	1.407	-1.733	0.270
807T	0.541	0.453	1.449	-1.581	1.248	0.632	1.126	1.449	-1.581	0.553
808G	-0.022	0.501	1.132	-1.684	1.084	0.613	1.674	1.674	-1.684	0.471
809I	0.250	-0.222	0.954	-1.394	0.765	0.507	1.600	1.600	-1.394	0.351
810T	1.464	0.103	1.309	-0.781	1.075	0.991	1.156	1.464	-0.781	0.760
811V	0.901	0.443	0.991	-0.040	0.911	0.973	1.704	1.704	-0.040	0.840
812D	0.673	1.353	1.001	0.491	0.957	0.973	0.694	1.353	0.491	0.877
813D	1.540	0.610	1.589	0.390	1.613	1.565	0.437	1.613	0.390	1.106
814V	1.476	0.071	1.823	-0.491	1.932	2.170	0.395	2.170	-0.491	1.054
815A	1.129	0.706	1.860	-1.465	1.950	2.174	0.242	2.174	-1.465	0.942
816K	0.629	0.299	1.589	-2.248	1.631	1.685	-0.760	1.685	-2.248	0.404
817R	0.629	0.095	1.589	-2.292	1.631	1.685	-0.760	1.685	-2.292	0.368
818L	0.743	-0.893	1.963	-1.798	1.877	1.703	-1.016	1.963	-1.798	0.368
819A	0.971	-0.599	1.954	-1.081	1.832	1.703	-0.006	1.954	-1.081	0.682
820D	0.029	-0.599	1.440	-0.513	1.148	1.112	0.180	1.440	-0.599	0.400
821Y	-0.104	-0.779	1.169	0.029	0.847	1.108	0.449	1.169	-0.779	0.388
822G	0.610	0.119	1.253	0.244	0.838	1.102	-0.997	1.253	-0.997	0.453
823F	0.610	-0.623	1.496	0.678	1.112	1.121	0.234	1.496	-0.623	0.661
824H	0.307	0.407	1.421	0.773	0.948	0.652	0.283	1.421	0.283	0.684
825A	0.161	0.143	1.160	0.589	0.756	0.650	-0.104	1.160	-0.104	0.479
826P	0.212	0.501	1.318	0.229	0.957	0.670	0.056	1.318	0.056	0.563
827T	0.212	0.047	1.318	-0.115	0.957	0.670	0.056	1.318	-0.115	0.449
828M	0.212	-0.444	1.403	-0.199	1.057	0.069	0.008	1.403	-0.444	0.301
829S	-0.155	0.297	1.281	-0.011	1.048	0.071	1.607	1.607	-0.155	0.591
830F	-0.155	-0.068	1.038	-0.019	0.774	0.052	0.377	1.038	-0.155	0.286
831P	-0.123	-0.098	0.832	-0.416	0.574	0.032	0.336	0.832	-0.416	0.163
832V	0.471	-0.570	1.038	-0.784	0.683	0.035	0.432	1.038	-0.784	0.186
833A	-0.521	-0.570	0.804	-1.296	0.537	0.020	0.708	0.804	-1.296	-0.045
834G	-0.205	0.005	0.860	-1.510	0.629	0.033	0.401	0.860	-1.510	0.030
835T	-0.572	-0.264	0.496	-1.770	0.346	0.015	0.770	0.770	-1.770	-0.140
836L	0.155	-0.264	0.945	-2.065	0.720	0.613	0.155	0.945	-2.065	0.037
837M	0.155	0.515	1.188	-2.195	0.993	0.632	1.385	1.385	-2.195	0.382
838V	0.123	1.485	1.393	-1.972	1.194	0.652	1.425	1.485	-1.972	0.614
839E	0.288	2.156	1.524	-1.515	1.403	1.232	1.358	2.156	-1.515	0.921
840P	1.280	2.437	1.758	-0.806	1.549	1.247	1.083	2.437	-0.806	1.221
841T	2.039	1.874	2.094	-0.441	1.868	1.829	1.112	2.094	-0.441	1.482
842E	2.684	1.383	2.365	-0.122	2.032	1.848	0.683	2.684	-0.122	1.553
843S	1.609	1.383	1.954	-0.097	1.677	1.253	1.145	1.954	-0.097	1.275
844E	1.609	0.431	1.711	-0.185	1.403	1.234	-0.086	1.711	-0.185	0.874
845S	1.774	0.395	1.842	-0.613	1.613	1.814	-0.153	1.842	-0.613	0.953
846L	1.046	-0.460	1.393	-1.089	1.239	1.216	0.462	1.393	-1.089	0.544
847A	1.268	-0.430	1.515	-1.470	1.403	1.685	0.294	1.685	-1.470	0.609
848E	0.907	-0.394	1.188	-1.383	1.039	1.085	-0.690	1.188	-1.383	0.250
849V	-0.085	-0.394	0.973	-1.002	0.838	1.070	-0.599	1.070	-1.002	0.114
850D	0.585	-0.298	0.842	-0.420	0.738	1.082	-0.412	1.082	-0.420	0.302
851A	0.945	-0.951	1.169	-0.156	1.103	1.681	0.572	1.681	-0.951	0.623
852F	0.585	-1.276	0.842	-0.245	0.738	1.082	-0.412	1.082	-1.276	0.188

853C	0.553	-0.474	0.954	-0.665	0.793	1.097	-1.055	1.097	-1.055	0.172
854E	-0.585	-0.835	0.543	-1.486	0.455	0.610	-0.725	0.610	-1.486	-0.289
855A	-0.357	-0.597	0.533	-2.158	0.410	0.610	0.286	0.610	-2.158	-0.182
856M	-0.281	-0.597	0.459	-2.747	0.437	0.608	0.356	0.608	-2.747	-0.252
857I	-0.104	0.093	1.103	-3.038	1.002	1.215	-0.267	1.215	-3.038	0.001
858G	-0.465	0.093	0.776	-3.012	0.638	0.615	-1.251	0.776	-3.012	-0.372
859I	-0.104	0.005	1.103	-2.923	1.002	1.215	-0.267	1.215	-2.923	0.004
860R	-0.344	1.161	0.973	-2.860	0.938	1.199	0.110	1.199	-2.860	0.168
861A	0.794	0.251	1.384	-2.464	1.276	1.687	-0.221	1.687	-2.464	0.386
862E	0.794	0.878	1.842	-2.139	1.959	2.281	-0.156	2.281	-2.139	0.780
863I	1.065	0.303	1.860	-1.598	1.968	2.281	0.111	2.281	-1.598	0.856
864D	1.160	1.255	1.421	-1.319	1.449	1.656	0.112	1.656	-1.319	0.819
865K	1.160	1.291	1.421	-1.327	1.449	1.656	0.112	1.656	-1.327	0.823
866V	1.028	-0.044	1.085	-1.592	1.039	1.057	0.139	1.085	-1.592	0.387
867G	2.026	0.411	1.552	-1.771	1.422	1.655	-0.209	2.026	-1.771	0.727
868A	0.762	-0.312	1.300	-2.038	1.121	1.191	-0.178	1.300	-2.038	0.264
869G	0.534	0.227	1.094	-1.903	0.756	0.615	-0.023	1.094	-1.903	0.186
870E	0.534	0.139	1.094	-1.787	0.756	0.615	-0.023	1.094	-1.787	0.190
871W	0.806	0.173	1.375	-1.286	1.121	1.104	-0.032	1.375	-1.286	0.466
872P	1.306	1.034	1.646	-0.517	1.440	1.593	0.969	1.646	-0.517	1.067
873V	1.388	0.471	1.954	0.716	1.795	1.634	0.856	1.954	0.471	1.259
874D	1.028	1.381	1.870	1.885	1.704	1.053	1.102	1.885	1.028	1.432
875D	1.078	1.469	1.767	2.640	1.695	1.033	1.514	2.640	1.033	1.600
876N	1.211	0.930	1.954	2.291	1.895	1.639	1.294	2.291	0.930	1.602
877P	1.805	0.680	2.066	1.206	1.859	1.637	0.705	2.066	0.680	1.423
878L	1.306	0.411	1.795	-0.372	1.540	1.148	-0.296	1.795	-0.372	0.790
879R	0.806	1.107	1.767	-1.309	1.494	0.678	-0.067	1.767	-1.309	0.640
880G	0.496	0.293	1.627	-1.277	1.358	1.258	0.313	1.627	-1.277	0.581
881A	0.692	0.157	1.580	-0.455	1.239	1.259	0.134	1.580	-0.455	0.658
882P	1.407	0.193	1.664	0.506	1.230	1.253	-1.311	1.664	-1.311	0.706
883H	1.521	-0.370	1.561	0.981	1.130	0.671	-1.147	1.561	-1.147	0.621
884T	1.249	-0.665	1.356	0.831	1.084	0.689	-0.525	1.356	-0.665	0.574
885A	0.534	-1.156	1.272	0.268	1.093	0.694	0.920	1.272	-1.156	0.518
886Q	-0.180	-0.300	0.945	-0.290	0.829	0.681	1.135	1.135	-0.300	0.403
887C	-0.180	-0.252	0.786	-0.885	0.656	0.061	-0.142	0.786	-0.885	0.006
888L	-0.098	-0.791	0.739	-1.111	0.656	0.061	-0.023	0.739	-1.111	-0.081
889L	0.402	-0.048	1.010	-0.948	0.975	0.550	0.978	1.010	-0.948	0.417
890A	-0.610	0.247	0.702	-0.478	0.619	0.533	0.837	0.837	-0.610	0.264
891S	-0.066	0.606	1.188	0.317	1.030	1.004	0.206	1.188	-0.066	0.612
892D	0.648	-0.657	1.431	1.145	1.194	1.618	0.038	1.618	-0.657	0.774
893W	1.363	-0.705	1.758	1.716	1.458	1.632	-0.177	1.758	-0.705	1.006
894D	1.110	0.612	2.010	2.051	1.695	1.651	1.165	2.051	0.612	1.470
895H	1.028	0.648	2.057	2.016	1.695	1.651	1.046	2.057	0.648	1.449
896P	0.661	1.048	2.216	1.326	1.850	1.787	1.054	2.216	0.661	1.420
897Y	1.786	0.690	2.524	0.392	2.196	2.361	1.006	2.524	0.392	1.565
898T	1.533	1.097	2.580	-0.631	2.251	1.915	1.178	2.580	-0.631	1.418
899R	1.533	0.199	2.421	-1.357	2.078	1.295	-0.099	2.421	-1.357	0.867
900E	1.533	-0.256	2.178	-1.626	1.804	1.276	-1.329	2.178	-1.626	0.511
901Q	1.533	-1.035	2.178	-1.639	1.804	1.276	-1.329	2.178	-1.639	0.398
902A	1.337	-0.899	2.225	-1.509	1.923	1.275	-1.150	2.225	-1.509	0.457
903A	0.490	-0.408	1.711	-1.339	1.458	0.656	-0.714	1.711	-1.339	0.265
904Y	0.357	-0.408	1.375	-1.136	1.048	0.056	-0.688	1.375	-1.136	0.086
905P	0.307	-0.176	1.244	-1.051	0.829	0.034	-0.810	1.244	-1.051	0.054
906L	0.307	0.279	1.244	-1.067	0.829	0.034	-0.810	1.244	-1.067	0.116
907G	-0.408	0.842	1.178	-1.060	0.784	0.038	0.451	1.178	-1.060	0.261
908T	-0.022	1.046	1.356	-1.133	1.020	0.643	0.118	1.356	-1.133	0.433
909A	-0.022	0.459	1.356	-1.088	1.020	0.643	0.118	1.356	-1.088	0.355
910F	0.920	-0.044	1.889	-1.126	1.649	1.232	-0.252	1.889	-1.126	0.610
911R	0.326	0.489	1.776	-1.172	1.686	1.234	0.336	1.776	-1.172	0.668

912P	-0.635	-0.324	1.599	-1.443	1.549	1.239	0.318	1.599	-1.443	0.329
913K	-0.635	-0.779	1.842	-1.499	1.823	1.258	1.548	1.842	-1.499	0.508
914V	0.079	-0.797	1.907	-1.656	1.868	1.254	0.287	1.907	-1.656	0.420
915W	-0.420	0.113	1.356	-1.504	1.385	0.631	0.876	1.385	-1.504	0.348
916P	-0.288	0.291	1.543	-1.566	1.586	1.236	0.656	1.586	-1.566	0.494
917A	-0.382	0.471	1.524	-1.704	1.422	1.267	0.590	1.524	-1.704	0.455
918V	-0.654	1.099	1.505	-2.175	1.412	1.267	0.323	1.505	-2.175	0.397
919R	0.610	1.195	1.758	-2.266	1.713	1.730	0.291	1.758	-2.266	0.719
920R	0.838	-0.026	1.505	-2.188	1.394	1.711	0.072	1.711	-2.188	0.472
921I	0.838	-0.212	1.505	-1.619	1.394	1.711	0.072	1.711	-1.619	0.527
922D	0.952	0.652	1.879	-1.144	1.640	1.729	-0.185	1.879	-1.144	0.789
923G	1.046	0.926	1.440	-0.961	1.121	1.105	-0.184	1.440	-0.961	0.642
924A	1.413	0.908	1.281	-0.871	0.966	0.969	-0.192	1.413	-0.871	0.639
925Y	2.185	0.704	1.851	-0.786	1.458	1.592	-0.514	2.185	-0.786	0.927
926G	1.995	1.014	1.879	-0.241	1.449	1.143	-0.618	1.995	-0.618	0.946
927D	1.053	0.423	1.804	0.260	1.504	1.149	-0.184	1.804	-0.184	0.858
928R	0.686	0.740	1.683	0.645	1.494	1.150	1.415	1.683	0.645	1.116
929N	0.895	-0.038	1.216	0.524	1.166	1.149	1.705	1.705	-0.038	0.945
930L	0.945	-0.288	1.375	0.401	1.367	1.169	1.865	1.865	-0.288	0.976
931V	0.402	0.275	0.889	0.253	0.957	0.698	2.496	2.496	0.253	0.853
932C	0.269	0.275	0.702	0.742	0.756	0.092	2.717	2.717	0.092	0.793
933S	-0.041	0.814	0.646	1.062	0.720	0.070	3.050	3.050	-0.041	0.903
934C	0.307	-0.042	0.608	1.227	0.701	0.067	3.203	3.203	-0.042	0.867
935P	1.034	-0.252	1.057	0.816	1.075	0.665	2.588	2.588	-0.252	0.998
936P	1.078	-0.611	1.272	-0.052	1.166	0.647	0.956	1.272	-0.611	0.637
937V	0.085	-0.715	1.057	-0.857	0.966	0.631	1.047	1.057	-0.857	0.316
938E	0.130	-0.364	1.272	-1.420	1.057	0.613	-0.585	1.272	-1.420	0.100
939A	-0.003	-0.685	0.571	-1.505	1.103	0.654	-1.815	1.103	-1.815	-0.240
940F	-0.136	-0.430	-0.130	-1.364	1.148	0.695	-3.045	1.148	-3.045	-0.466
941A	0.098	-0.001	-0.467	-1.038	1.476	0.754	-4.644	1.476	-4.644	-0.546

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]VSDHSTFADRHIGLDSQAVATMLAVIGVDSLDDLAVKAVPAGILDTLTDTGAAPGLDSLPPAASEAEA LAELRALADANTVAVSMIGQGGYYDTHTPPVLLRNIIENPAWYTAYTPYQPEISQGRLEALLNFQTLVT DLTGLEIANASMLDEGTAAAEAMTLMHRAARGPVKRVVVDADVFTQTAAVLATRAKPLGIEIVTADLR AGLPDGEFFGVIAQLPGASGRITDWSALVQQAHDRGALVAVGADLLALTLIAPPGEIGADVAFGTTQ RFGVPMGFGGPHAGYLAVHAKHARQLPGRLVGVSVDSDGTPAYRLALQTREQHIRRDKATSNICTA QVLLAVLAAMYASYHGAGGLTAIARRVHAHAEAIAGALGDALVHDKYFDTVLARVPGRADEVLARAK ANGINLWRVDADHVSVACDEATTDTHVAVVLDAFGVAAAAPAHTDIATRTSEFLTHPAFTQYRTETS MMRYLRALADKDIALDRSMIPLGSCTMKLNAAAEMESITWPEFGRQHPFAPASDTAGLRQLVADLQ SWLVLITGYDAVSLQPNAGSQGEYAGLLAIHEYHASRGEPHRDICLIPSSAHGTNAASAALAGMRVV VVDCHDNGDVDLDDLRAKVGEHAERLSALMITYPSTHGVYEHDIAEICAAVHDAGGQVYVDGANLN ALVGLARPGKFGGDVSHLNLHKTFCIPHGGGGPGVGPVAVRAHLAPFLPGHPFAPELPKGYPVSSA PYGSASILPITWAYIRMMGAEGLRAASLTAITSANYIARRLDEYYPVLYTGENGMVAHECILDLRGITK LTGITVDDVAKRLADYGFHAPTMSFPVAGTLMVEPTESESLAEVDAFCEAMIGIRAEIDKVGAGEWP VDDNPLRGAPHTAQCLLASDWDHPYTREQAAYPLGTAFRPKVWPAVRRIDGAYGDRNLVCSCPPV EAFA[941]
Hydrophilicity	[1]VSDHSTFADRHIGLDSQAVATMLAVIGVDSLDDLAVKAVPAGILDTLTDTGAAPGLDSLPPAASEAEA LAELRALADANTVAVSMIGQGGYYDTHTPPVLLRNIIENPAWYTAYTPYQPEISQGRLEALLNFQTLVT DLTGLEIANASMLDEGTAAAEAMTLMHRAARGPVKRVVVDADVFTQTAAVLATRAKPLGIEIVTADLR AGLPDGEFFGVIAQLPGASGRITDWSALVQQAHDRGALVAVGADLLALTLIAPPGEIGADVAFGTTQ RFGVPMGFGGPHAGYLAVHAKHARQLPGRLVGVSVDSDGTPAYRLALQTREQHIRRDKATSNICTA QVLLAVLAAMYASYHGAGGLTAIARRVHAHAEAIAGALGDALVHDKYFDTVLARVPGRADEVLARAK ANGINLWRVDADHVSVACDEATTDTHVAVVLDAFGVAAAAPAHTDIATRTSEFLTHPAFTQYRTETS MMRYLRALADKDIALDRSMIPLGSCTMKLNAAAEMESITWPEFGRQHPFAPASDTAGLRQLVADLQ SWLVLITGYDAVSLQPNAGSQGEYAGLLAIHEYHASRGEPHRDICLIPSSAHGTNAASAALAGMRVV VVDCHDNGDVDLDDLRAKVGEHAERLSALMITYPSTHGVYEHDIAEICAAVHDAGGQVYVDGANLN ALVGLARPGKFGGDVSHLNLHKTFCIPHGGGGPGVGPVAVRAHLAPFLPGHPFAPELPKGYPVSSA PYGSASILPITWAYIRMMGAEGLRAASLTAITSANYIARRLDEYYPVLYTGENGMVAHECILDLRGITK LTGITVDDVAKRLADYGFHAPTMSFPVAGTLMVEPTESESLAEVDAFCEAMIGIRAEIDKVGAGEWP VDDNPLRGAPHTAQCLLASDWDHPYTREQAAYPLGTAFRPKVWPAVRRIDGAYGDRNLVCSCPPV EAFA[941]
Flexibility	[1]VSDHSTFADRHIGLDSQAVATMLAVIGVDSLDDLAVKAVPAGILDTLTDTGAAPGLDSLPPAASEAEA LAELRALADANTVAVSMIGQGGYYDTHTPPVLLRNIIENPAWYTAYTPYQPEISQGRLEALLNFQTLVT DLTGLEIANASMLDEGTAAAEAMTLMHRAARGPVKRVVVDADVFTQTAAVLATRAKPLGIEIVTADLR AGLPDGEFFGVIAQLPGASGRITDWSALVQQAHDRGALVAVGADLLALTLIAPPGEIGADVAFGTTQ RFGVPMGFGGPHAGYLAVHAKHARQLPGRLVGVSVDSDGTPAYRLALQTREQHIRRDKATSNICTA QVLLAVLAAMYASYHGAGGLTAIARRVHAHAEAIAGALGDALVHDKYFDTVLARVPGRADEVLARAK ANGINLWRVDADHVSVACDEATTDTHVAVVLDAFGVAAAAPAHTDIATRTSEFLTHPAFTQYRTETS MMRYLRALADKDIALDRSMIPLGSCTMKLNAAAEMESITWPEFGRQHPFAPASDTAGLRQLVADLQ SWLVLITGYDAVSLQPNAGSQGEYAGLLAIHEYHASRGEPHRDICLIPSSAHGTNAASAALAGMRVV VVDCHDNGDVDLDDLRAKVGEHAERLSALMITYPSTHGVYEHDIAEICAAVHDAGGQVYVDGANLN ALVGLARPGKFGGDVSHLNLHKTFCIPHGGGGPGVGPVAVRAHLAPFLPGHPFAPELPKGYPVSSA PYGSASILPITWAYIRMMGAEGLRAASLTAITSANYIARRLDEYYPVLYTGENGMVAHECILDLRGITK LTGITVDDVAKRLADYGFHAPTMSFPVAGTLMVEPTESESLAEVDAFCEAMIGIRAEIDKVGAGEWP VDDNPLRGAPHTAQCLLASDWDHPYTREQAAYPLGTAFRPKVWPAVRRIDGAYGDRNLVCSCPPV EAFA[941]
Accessibility	[1]VSDHSTFADRHIGLDSQAVATMLAVIGVDSLDDLAVKAVPAGILDTLTDTGAAPGLDSLPPAASEAEA LAELRALADANTVAVSMIGQGGYYDTHTPPVLLRNIIENPAWYTAYTPYQPEISQGRLEALLNFQTLVT DLTGLEIANASMLDEGTAAAEAMTLMHRAARGPVKRVVVDADVFTQTAAVLATRAKPLGIEIVTADLR AGLPDGEFFGVIAQLPGASGRITDWSALVQQAHDRGALVAVGADLLALTLIAPPGEIGADVAFGTTQ RFGVPMGFGGPHAGYLAVHAKHARQLPGRLVGVSVDSDGTPAYRLALQTREQHIRRDKATSNICTA QVLLAVLAAMYASYHGAGGLTAIARRVHAHAEAIAGALGDALVHDKYFDTVLARVPGRADEVLARAK ANGINLWRVDADHVSVACDEATTDTHVAVVLDAFGVAAAAPAHTDIATRTSEFLTHPAFTQYRTETS MMRYLRALADKDIALDRSMIPLGSCTMKLNAAAEMESITWPEFGRQHPFAPASDTAGLRQLVADLQ SWLVLITGYDAVSLQPNAGSQGEYAGLLAIHEYHASRGEPHRDICLIPSSAHGTNAASAALAGMRVV VVDCHDNGDVDLDDLRAKVGEHAERLSALMITYPSTHGVYEHDIAEICAAVHDAGGQVYVDGANLN

	ALVGLARPGKFGGDVSHLNLHKTFCIPHGGGGPGVGPVAVRAHLAPFLPGHPFAPELPKGYPVSSA PYGSASILPITWAYIRMMGAEGLRAASLTAITSANYIARRLDEYYPVLYTGENGMVAHECILDLRGITK LTGITVDDVAKRLADYGFHAPTMSFPVAGTLMVEPTESESLAEVDAFCEAMIGIRAEIDKVGAGEWP VDDNPLRGAPHTAQCLLASDWDHPYTREQAAYPLGTAFRPKVWPAVRRIDGAYGDRNLVCSCPPV EAFA[941]
Turns	[1]VSDHSTFADRHIGLDSQAVATMLAVIGVDSLDDLAVKAVPAGILDTLTDTGAAPGLDSLPPAASEAEA LAELRALADANTVAVSMIGQGGYYDTHTPPVLLRNIIENPAWYTAYTPYQPEISQGRLEALLNFQTLVT DLTGLEIANASMLDEGTAAAEAMTLMHRAARGPVKRVVVDADVFTQTAAVLATRAKPLGIEIVTADLR AGLPDGEFFGVIAQLPGASGRITDWSALVQQAHDRGALVAVGADLLALTLIAPPGEIGADVAFGTTQ RFGVPMGFGGPHAGYLAVHAKHARQLPGRLVGVSVDSDGTPAYRLALQTREQHIRRDKATSNICTA QVLLAVLAAMYASYHGAGGLTAIARRVHAHAEAIAGALGDALVHDKYFDTVLARVPGRADEVLARAK ANGINLWRVDADHVSVACDEATTDTHVAVVLDAFGVAAAAPAHTDIATRTSEFLTHPAFTQYRTETS MMRYLRALADKDIALDRSMIPLGSCTMKLNAAAEMESITWPEFGRQHPFAPASDTAGLRQLVADLQ SWLVLITGYDAVSLQPNAGSQGEYAGLLAIHEYHASRGEPHRDICLIPSSAHGTNAASAALAGMRVV VVDCHDNGDVDLDDLRAKVGEHAERLSALMITYPSTHGVYEHDIAEICAAVHDAGGQVYVDGANLN ALVGLARPGKFGGDVSHLNLHKTFCIPHGGGGPGVGPVAVRAHLAPFLPGHPFAPELPKGYPVSSA PYGSASILPITWAYIRMMGAEGLRAASLTAITSANYIARRLDEYYPVLYTGENGMVAHECILDLRGITK LTGITVDDVAKRLADYGFHAPTMSFPVAGTLMVEPTESESLAEVDAFCEAMIGIRAEIDKVGAGEWP VDDNPLRGAPHTAQCLLASDWDHPYTREQAAYPLGTAFRPKVWPAVRRIDGAYGDRNLVCSCPPV EAFA[941]
Exposed Surface	[1]VSDHSTFADRHIGLDSQAVATMLAVIGVDSLDDLAVKAVPAGILDTLTDTGAAPGLDSLPPAASEAEA LAELRALADANTVAVSMIGQGGYYDTHTPPVLLRNIIENPAWYTAYTPYQPEISQGRLEALLNFQTLVT DLTGLEIANASMLDEGTAAAEAMTLMHRAARGPVKRVVVDADVFTQTAAVLATRAKPLGIEIVTADLR AGLPDGEFFGVIAQLPGASGRITDWSALVQQAHDRGALVAVGADLLALTLIAPPGEIGADVAFGTTQ RFGVPMGFGGPHAGYLAVHAKHARQLPGRLVGVSVDSDGTPAYRLALQTREQHIRRDKATSNICTA QVLLAVLAAMYASYHGAGGLTAIARRVHAHAEAIAGALGDALVHDKYFDTVLARVPGRADEVLARAK ANGINLWRVDADHVSVACDEATTDTHVAVVLDAFGVAAAAPAHTDIATRTSEFLTHPAFTQYRTETS MMRYLRALADKDIALDRSMIPLGSCTMKLNAAAEMESITWPEFGRQHPFAPASDTAGLRQLVADLQ SWLVLITGYDAVSLQPNAGSQGEYAGLLAIHEYHASRGEPHRDICLIPSSAHGTNAASAALAGMRVV VVDCHDNGDVDLDDLRAKVGEHAERLSALMITYPSTHGVYEHDIAEICAAVHDAGGQVYVDGANLN ALVGLARPGKFGGDVSHLNLHKTFCIPHGGGGPGVGPVAVRAHLAPFLPGHPFAPELPKGYPVSSA PYGSASILPITWAYIRMMGAEGLRAASLTAITSANYIARRLDEYYPVLYTGENGMVAHECILDLRGITK LTGITVDDVAKRLADYGFHAPTMSFPVAGTLMVEPTESESLAEVDAFCEAMIGIRAEIDKVGAGEWP VDDNPLRGAPHTAQCLLASDWDHPYTREQAAYPLGTAFRPKVWPAVRRIDGAYGDRNLVCSCPPV EAFA[941]
Polarity	[1]VSDHSTFADRHIGLDSQAVATMLAVIGVDSLDDLAVKAVPAGILDTLTDTGAAPGLDSLPPAASEAEA LAELRALADANTVAVSMIGQGGYYDTHTPPVLLRNIIENPAWYTAYTPYQPEISQGRLEALLNFQTLVT DLTGLEIANASMLDEGTAAAEAMTLMHRAARGPVKRVVVDADVFTQTAAVLATRAKPLGIEIVTADLR AGLPDGEFFGVIAQLPGASGRITDWSALVQQAHDRGALVAVGADLLALTLIAPPGEIGADVAFGTTQ RFGVPMGFGGPHAGYLAVHAKHARQLPGRLVGVSVDSDGTPAYRLALQTREQHIRRDKATSNICTA QVLLAVLAAMYASYHGAGGLTAIARRVHAHAEAIAGALGDALVHDKYFDTVLARVPGRADEVLARAK ANGINLWRVDADHVSVACDEATTDTHVAVVLDAFGVAAAAPAHTDIATRTSEFLTHPAFTQYRTETS MMRYLRALADKDIALDRSMIPLGSCTMKLNAAAEMESITWPEFGRQHPFAPASDTAGLRQLVADLQ SWLVLITGYDAVSLQPNAGSQGEYAGLLAIHEYHASRGEPHRDICLIPSSAHGTNAASAALAGMRVV VVDCHDNGDVDLDDLRAKVGEHAERLSALMITYPSTHGVYEHDIAEICAAVHDAGGQVYVDGANLN ALVGLARPGKFGGDVSHLNLHKTFCIPHGGGGPGVGPVAVRAHLAPFLPGHPFAPELPKGYPVSSA PYGSASILPITWAYIRMMGAEGLRAASLTAITSANYIARRLDEYYPVLYTGENGMVAHECILDLRGITK LTGITVDDVAKRLADYGFHAPTMSFPVAGTLMVEPTESESLAEVDAFCEAMIGIRAEIDKVGAGEWP VDDNPLRGAPHTAQCLLASDWDHPYTREQAAYPLGTAFRPKVWPAVRRIDGAYGDRNLVCSCPPV EAFA[941]
Antigenic Propensity	[1]VSDHSTFADRHIGLDSQAVATMLAVIGVDSLDDLAVKAVPAGILDTLTDTGAAPGLDSLPPAASEAEA LAELRALADANTVAVSMIGQGGYYDTHTPPVLLRNIIENPAWYTAYTPYQPEISQGRLEALLNFQTLVT DLTGLEIANASMLDEGTAAAEAMTLMHRAARGPVKRVVVDADVFTQTAAVLATRAKPLGIEIVTADLR AGLPDGEFFGVIAQLPGASGRITDWSALVQQAHDRGALVAVGADLLALTLIAPPGEIGADVAFGTTQ

	RFGVPMGFGGPHAGYLAVHAKHARQLPGRLVGVSVDSDGTPAYRLALQTREQHIRRDKATSNICTA QVLLAVLAAMYASYHGAGGLTAIARRVHAHAEAIAGALGDALVHDKYFDTVLARVPGRADEVLARAK ANGINLWRVDADHVSVACDEATTDTHVAVVLDAFGVAAAAPAHTDIATRTSEFLTHPAFTQYRTETS MMRYLRALADKDIALDRSMIPLGSCTMKLNAAAEMESITWPEFGRQHPFAPASDTAGLRQLVADLQ SWLVLITGYDAVSLQPNAGSQGEYAGLLAIHEYHASRGEPHRDICLIPSSAHGTNAASAALAGMRVV VVDCHDNGDVDLDDLRAKVGEHAERLSALMITYPSTHGVYEHDIAEICAAVHDAGGQVYVDGANLN ALVGLARPGKFGGDVSHLNLHKTFCIPHGGGGPGVGPVAVRAHLAPFLPGHPFAPELPKGYPVSSA PYGSASILPITWAYIRMMGAEGLRAASLTAITSANYIARRLDEYYPVLYTGENGMVAHECILDLRGITK LTGITVDDVAKRLADYGFHAPTMSFPVAGTLMVEPTESESLAEVDAFCEAMIGIRAEIDKVGAGEWP VDDNPLRGAPHTAQCLLASDWDHPYTREQAAYPLGTAFRPKVWPAVRRIDGAYGDRNLVCSCPPV EAFA[941]

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